THE LINE SHOWN ABOVE IS 1" LONG WHEN PRINTED AT FULL SIZE ON THIS SHEET'S ORIGINAL PAGE SIZE

EL MONTE UNION HIGH SCHOOL DISTRICT

EMUSD ARROYO HS - INTERIM HOUSING

4921 Cedar Ave
El Monte, CA 91732

HMC Architects
DESIGN FOR GOOD
3361-008-000
633 W. 5TH STREET, THIRD FLOOR, LOS ANGELES, CA, 90071
213 542 8300 / www.hmcarchitects.com

NOT FOR CONSTRUCTION

PROJECT TEAM

OWNER
EL MONTE UNION HS DISTRICT
3537 JOHNSON AVE. EL MONTE, CA 91731
626 444 9005

ARCHITECT
HMC ARCHITECTS
633 W. 5TH ST. THIRD FLR. LOS ANGELES, CA 90071
213 542 8300

CIVIL / STRUCTURAL
VCA ENGINEERS
1041 S. GARFIELD AVE, SUITE 210. ALHAMBRA, CA 91801
323 729 6098

ELECTRICAL / FIRE ALARM / LOW VOLTAGE
BUDLONG & ASSOCIATES, INC
633 W. 5TH STREET, 26TH FLOOR. LOS ANGELES, CA 90071
(818) 638-8780

FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:
EMUSD ARROYO HS - INTERIM HOUSING

SHEET NAME:
COVER SHEET

100% DESIGN DEVELOPMENT

DATE: **04/13/26** | CLIENT PROJ NO: **3361-008-101**

SHEET:

G0.10

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PLEASE RECYCLE

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GENERAL NOTES

1. CONSTRUCTION DOCUMENTS DESCRIBE THE PRODUCTS, SYSTEMS, QUANTITIES, CONFIGURATION, AND PERFORMANCE SPECIFICATIONS THAT DELIVER THE OVERALL DESIGN INTENT OF THE PROJECT.
2. THE CONSTRUCTION DOCUMENT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY BOTH.
3. PERFORMANCE BY THE CONSTRUCTION TEAM SHALL BE CONSISTENT WITH THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AS NECESSARY TO DELIVER THE INDICATED RESULTS OF THE DESIGN INTENT.
4. VERIFY ALL DIMENSIONS, LOCATIONS OF EXISTING UTILITIES, AND CONDITIONS ON THE JOB SITE PRIOR TO THE START OF WORK OR PORTIONS OF THE WORK. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE ACTUAL FIELD CONDITIONS AND THE CONSTRUCTION DOCUMENTS. EXISTING CONDITIONS ARE INDICATED AS A RESULT OF FIELD OBSERVATIONS, INFORMATION SHOWN ON AVAILABLE DOCUMENTS AND FIELD CONDITIONS AT THE TIME OF PREPARATION.
5. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL GOVERNING CODES, ORDINANCES, REGULATIONS AND LAWS.
6. THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS AND SCAFFOLDING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
7. WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.
8. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.
9. DETAILS MARKED 'TYPICAL' SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY NOTED OTHERWISE.
10. ENACT ALL MEASURES TO PROTECT AND SAFEGUARD ALL EXISTING ELEMENTS TO REMAIN FROM BEING DAMAGED. REPLACE OR REPAIR EXISTING ELEMENTS DAMAGED BY THE EXECUTION OF THIS CONTRACT TO EQUAL OR BETTER CONDITION.
11. PRIOR TO THE START OF WORK THE CONTRACTOR SHALL COORDINATE BETWEEN THE REQUIREMENTS OF ALL DISCIPLINES HEREIN AND BETWEEN THE REQUIREMENTS OF ALL DRAWINGS AND SPECIFICATIONS IN ORDER THAT ALL ITEMS SATISFACTORILY RELATE TO ONE ANOTHER. NOTIFY ARCHITECT IMMEDIATELY REGARDING ANY ITEMS THAT CANNOT BE COORDINATED.
12. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, CONDUIT, ETC. AND TO PREVENT HAZARD TO PERSONNEL AND/OR TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
13. CHANGES TO THE APPROVED DRAWINGS AND/OR SPECIFICATIONS SHALL BE MADE BY ADDENDA OR A CHANGE ORDER.
14. CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE EXISTING OR NEW STRUCTURAL ELEMENTS SHALL NOT TO BE STARTED UNTIL THE DETAILS HAVE BEEN REVIEWED AND APPROVED BY THE ARCHITECT, AND STRUCTURAL ENGINEER OF RECORD.
15. ALL WORK SHALL CONFORM TO 2019 EDITION TITLE 24, CALIFORNIA CODE OF REGULATION (CCR)
16. THE LIMIT OF WORK LINE SHOWS THESE DRAWINGS IS AN APPROXIMATE LIMIT OF WORK ONLY. REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL WORK, INCLUDING BUT NOT LIMITED TO INSTALLATION OF CONDUIT, MANHOLES, PULLBOXES, ETC WHICH ARE TO BE PART OF THIS WORK, ALTHOUGH OCCURRING OUTSIDE OF SHOWN LIMIT OF WORK LINES.
17. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.
18. CHANGE TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24 CCR.
19. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. INSPECTOR TO BE CLASS 1.
20. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT. THE REPORTS SHALL BE SUBMITTED TO ARCHITECT OF RECORD, STRUCTURAL ENGINEER OF RECORD, OWNER, INSPECTOR OR RECORD, AND THE DSA FIELD ENGINEER. THE REPORTS OF ANY FAILURES OF TESTS AND INSPECTIONS ARE TO BE SUBMITTED TO DSA DISTRICT STRUCTURAL ENGINEER.
21. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
22. SAFETY DURING CONSTRUCTION SHALL COMPLY WITH CFC CHAPTER 33.
23. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION, OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR,, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR).
24. NO DUMPING OR PLACING OF ANY DIRT OR DEBRIS SHALL BE ALLOWED OUTSIDE OF THE CONTRACTORS LIMIT OF WORK AREA.

CODES

PARTIAL LIST OF APPLICABLE CODES

2025	CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2025	CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2024 INTERNATIONAL BUILDING CODE VOLUMES 1 & 2 AND 2025 CALIFORNIA AMENDMENTS)
2025	CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2020 NATIONAL ELECTRICAL CODE AND 2025 CALIFORNIA AMENDMENTS)
2025	CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R. (2024 UNIFORM MECHANICAL CODE AND 2025 CALIFORNIA AMENDMENTS)
2025	CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2024 UNIFORM PLUMBING CODE AND 2025 CALIFORNIA AMENDMENTS)
2025	CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
2025	CALIFORNIA HISTORICAL BUILDING CODE (CHBC), PART 8, TITLE 24 C.C.R.
2025	CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2021 INTERNATIONAL FIRE CODE AND 2025 CALIFORNIA AMENDMENTS)
2025	CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 C.C.R. (2021 INTERNATIONAL EXISTING CODE AND 2025 CALIFORNIA AMENDMENTS)
2025	CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
2025	CALIFORNIA REFERENCED STANDARDS, PART 12,TITLE 24 C.C.R.
TITLE 19	C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13	STANDARD FOR AUTOMATIC FIRE SPRINKLER SYSTEMS (CA AMENDED)	2022 ED.
NFPA 14	STANDARD FOR STANDPIPE AND HOSE SYSTEMS (CA AMENDED)	2019 ED.
NFPA 17	STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS	2021 ED.
NFPA 17A	STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS	2021 ED.
NFPA 20	STANDARD FOR STATIONARY PUMPS FOR FIRE PROTECTION	2019 ED.
NFPA 22	STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION	2013 ED.
NFPA 24	STANDARD FOR THE INSTALLATION OF PRIVATE FIRE MAINS AND THEIR APPURTENANCES (CA AMENDED)	2019 ED.
NFPA 72	NATIONAL FIRE ALARM & SIGNALING CODE (CA AMENDED)	2022 ED.
NFPA 80	STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES	2019 ED.
NFPA 2001	STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED)	2018 ED.
UL 300	STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2005 (R2014)
UL 464	AUDIBLE SIGNAL APPLIANCES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES	2003 ED.
UL 521	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 ED. (R2005)
UL 1971	STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED	2002 ED. (R2018)
ICC 300	STANDARD FOR BLEACHERS, FOLDING AND TELESCOPING SEATING AND GRANDSTANDS	2017 ED.

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE, CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

STATEMENT OF GENERAL CONFORMANCE

( ) THE DRAWINGS OR SHEETS LISTED ON THE INDEX SHEET FOR MODULAR CLASSROOM BUILDING
( ) THIS DRAWING PAGE OF SPECIFICATIONS/CALCULATIONS

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

1) DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE 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 SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344" OF TITLE 24, PART 1. (TITLE 24, PART 1, SECTION 4-317 (B))

I CERTIFY THAT:

THE PC APPROVED MANUFACTURER DRAWINGS PC#04-113886 LISTED ON THE INDEX SHEET ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN INTENT, AND THEY HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

SIGNATURE
ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE

DATE

PRINT NAME

X-00000
LICENSE NUMBER

01-01-22
EXPIRATION DATE

PROJECT DESCRIPTION

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PROJECT DATA

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SR4 RAMP ELEVATION
SR5 RAMP DETAILS
SR6 RAMP DETAILS
SR7 STAIR CONN
27
Grand total: 152

SYMBOL LEGEND

NORTH ARROW
TN / PN
TICK INDICATES PLAN NORTH
ARROW INDICATES TRUE NORTH

ELEVATION CALLOUT
(TYPICAL FOR EXTERIOR)
1 / AX.XX
LOCATION ON SHEET
SHEET WHERE ELEVATION IS DRAWN

ELEVATION CALLOUT
(TYPICAL FOR INTERIOR)
A1 / A2 / A3 / A4 / AX.XX
LOCATION ON SHEET
SHEET WHERE ELEVATION IS DRAWN

ELEVATION CALLOUT - ALT.
(FOR EXTERIOR AND INTERIOR)
18/AX.XX
LOCATION & SHEET WHERE ELEVATION IS DRAWN

SECTION CALLOUT
SIM / 1 / AX.XX
INDICATES A SIMILAR CONDITION
LOCATION ON SHEET
SHEET WHERE SECTION IS DRAWN

DETAIL CALLOUT
SIM / 1 / AX.XX
INDICATES A SIMILAR CONDITION
LOCATION ON SHEET
SHEET WHERE SECTION IS DRAWN

CONTROL OR DATUM POINT
FIRST FLOOR / +0' - 0"
NAME OF ELEVATION (IF APPLICABLE)
ELEVATION ABOVE FINISHED FLOOR

GRID BUBBLE
0 / 0
EXISTING BUILDING GRID SYMBOL
GRID NUMBER
NEW BUILDING GRID SYMBOL

DOOR CALLOUT
101A
DOOR NUMBER

INTERIOR FINISH CALLOUT
FA
MATERIAL FINISH TYPE (SEE FINISH SCHEDULE)

WINDOW CALLOUT
09-WF1
WINDOW NUMBER (SEE WINDOW SCHEDULE)

WALL TYPE CALLOUT
AS6A-A / AS4A / 55 1B
WALL TYPE MARK - SEE A10.11
WALL STC RATING
WALL FIRE RATING TYPE

MATCHLINE REFERENCE
X / X
LOCATION ON SHEET
SHEET WHERE PLAN IS DRAWN

KEYNOTE
?
KEYNOTE NUMBER (SEE LEGEND ON SHEET)

ROOM EXITING INFORMATION
OFFICE / 1001 / 150 SF / OL / OLF / OT / 2
AREA (SQ FT)
OCCUPANT LOAD (AREA DIVIDED BY LOAD FACTOR)
OCCUPANT LOAD FACTOR (REFER TO TABLE 1004.1.1)
OCCUPANCY TYPE
NUMBER OF EXITS REQUIRED (REFER TO TABLE 1015.1)

WIC CASEWORK TAG
WI999 / L / WD / HT / DP
MANUFACTURER REFERENCE AND MODEL NUMBER
LOCK
CABINET DEPTH
CABINET HEIGHT
CABINET WIDTH

DISCIPLINE

G	GENERAL
C	CIVIL
L	LANDSCAPE
A	ARCHITECTURE
I	INTERIORS
Q	EQUIPMENT
S	STRUCTURAL
P	PLUMBING
M	MECHANICAL
E	ELECTRICAL
FA	FIRE ALARM
T	TELECOM
AV	AV EQUIPMENT
K	KITCHEN
FP	FIRE PROTECTION

SHEET TYPE

0	CODE ANALYSIS, NOTES
1	SITE PLAN
2	FLOOR PLAN
3	CEILING PLAN
4	ROOF PLAN
5	EXTERIOR ELEVATIONS
6	SECTIONS
7	ENLARGED PLANS
8	INTERIOR ELEVATIONS
9	SCHEDULES
10	DETAILS

BUILDING LETTER, SEGMENT, (USER DEFINED)
USED ONLY IF REQUIRED. IF NOT, COLUMN IS OMITTED.

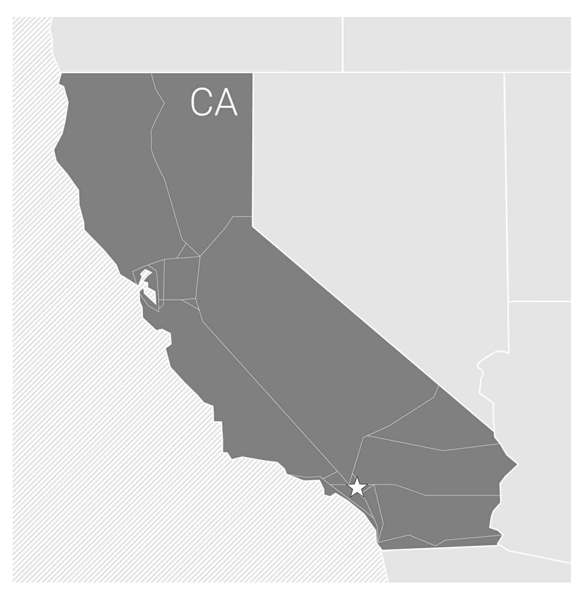
DISCIPLINE / SHEET TYPE / SERIES / ORDER / USER DEFINED (IF APPLICABLE)
A A 1 . 1 1 A . A
BULIDING LETTER (IF APPLICABLE) / FLOOR LEVEL OR SEQUENTIAL ORDER / SEGMENT (IF APPLICABLE)

ABBREVIATIONS

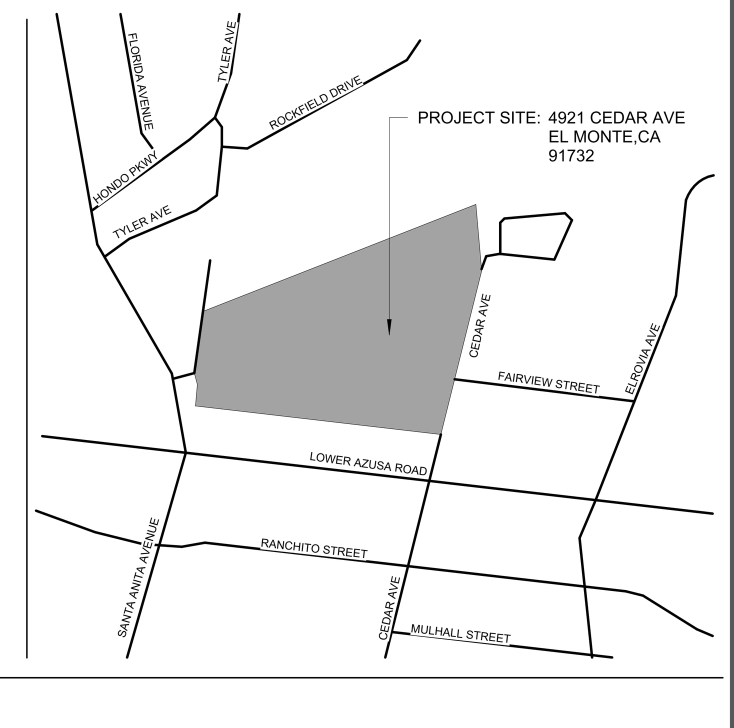
(E)	EXISTING
AB	ANCHOR BOLT
AC PAVING	ASPHALTIC CONCRETE PAVING
ACC	ACCESS/ACCESSIBLE
ACP	ACOUSTICAL CEILING PANEL
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJACENT/ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AGG	AGGREGATE
AHU	AIR HANDLING UNIT
ARCH	ARCHITECTURAL
ATT	ATTENUATION
AUTO	AUTOMATIC
BD	BOARD
BLCG	BLOCKING
BUR	BUILT UP ROOFING
CABT	CABINET
CF	CUBIC FEET
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED
CG	CORNER GUARD
CJ	CONTROL JOINT
CL	CENTER LINE
CLF	CHAIN LINK FENCE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLUMN
COMP	COMPRESSION / COMPOSITE
CF	CUBIC FEET
COORD	COORDINATE
CORR	CORRUGATED
CT	CERAMIC TILE
CTSK	COUNTER SUNK
CW	CURTAINWALL
DEPR	DEPRESSED / DEPRESSION
DF	DRINKING FOUNTAIN
DIM	DIMENSION
DISP	DISPENSER
DS	DOWNSPOUT
DTL	DETAIL
DW	DISHWASHER
E/W	EACH WAY
EIFS SYSTEM	EXTERIOR INSULATION FINISH
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION / ELEVATOR
ENCL	ENCLOSE / ENCLOSURE
EOS	EDGE OF SLAB
EP	ELECTRICAL PANEL
EQ	EQUAL
ESC	ESCUTCHEON
EWC	ELECTRIC WATER COOLER
EXP	EXPOSED
FA	FIRE ALARM
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER W/ CABINET
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FSH	FLAT HEAD SCREW
FIN	FINISH
FLR	FLOOR
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FP	FIREPROOFING
FR	FIRE RATED
FRG	FIRE RATED GLASS
FRP	FIBERGLASS REINFORCED PLASTIC
FRT	FIRE RETARDANT TREATED
FS	FINISH SURFACE
FTG	FOOTING
GB	GRAB BAR
GFRC	GLASS FIBER REINFORCED CONCRETE
GL	GLASS TYPE
GLB	GLUE LAMINATED BEAM
GYP BD	GYPSUM BOARD
GYP PLAS	GYPSUM PLASTIC
HB	HOSE BIBB
HD	HEAVY DUTY
HDR	HEADER
HDWR	HARDWARE
HGT	HEIGHT
HM	HOLLOW METAL
HP	HIGH POINT
HSS	HOLLOW STEEL SECTION
ID	INSIDE DIAMETER
INT	INTERIOR
INV	INVERT
LANDS	LANDSCAPE
LAV	LAVATORY
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LT WT	LIGHT WEIGHT
LVR	LOUVER
MACH	MACHINE
MB	MACHINE BOLT
MDF	MEDIUM DENSITY FIBERBOARD
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MFR	MANUFACTURER
MH	MANHOLE
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL
NIC	NOT IN CONTRACT
NR	NON RATED
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
O/	OVER
O/A	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OFVI	OWNER FURNISHED, VENDOR INSTALLED
OH	OPPOSITE HAND
OPER	OPERABLE
OPNG	OPENING
ORD	OVERFLOW ROOF DRAIN
P/L	PROPERTY LINE
PA	PUBLIC ADDRESS
PAF	POWDER ACTUATED FASTENER PAVING
PCC	PORTLAND CEMENT CONCRETE PAVING
PED	PEDESTRIAN
PERF	PERFORATED
PERIM	PERIMETER
PERP	PERPENDICULAR
PH	PANIC HARDWARE
PIV	POST INDICATOR VALVE
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLUMB	PLUMBING
PNL	PANEL
PNT	PAINT / PAINTED
POC	POINT OF CONNECTION
POLY ISO	POLYISOCYANURATE
PREFIN	PREFINISHED
PREP	PREP / PREPARATION
PTC	POST TENSIONED CONCRETE
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PTS	PNEUMATIC TUBE STATION / SYSTEM
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QT	QUARRY TILE
R	RADIUS, RISER
RB	RESILIENT BASE
RD	ROOF DRAIN
RECEPT	RECEPTACLE
REF	REFERENCE
REFL	REFLECT(ED), (IVE)
REFR	REFRIGERATOR
REINF	REINFORCE/REINFORCED/ REINFORCEMENT
REM	REMOVE
RH	ROUND HEAD
RHS	ROUND HEAD SCREW
RO	ROUGH OPENING
ROW	RIGHT OF WAY
SCH	SCHEDULE (FOR PIPE)
SCHED	SCHEDULE / SCHEDULING
SD	STORM DRAIN / SOAP DISPENSER
SECT	SECTION
SG	SAFETY GLASS
SHT	SHEET
SHTG	SHEATHING
SMS	SHEET METAL SCREW
SND	SANITARY NAPKIN DISPOSAL
SOV	SHUT OFF VALVE
SPEC	SPECIFICATIONS
SS	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
STL	STEEL
STSMS SCREW	SELF TAPPING SHEET METAL
SUSP	SUSPENDED
SV	SHEET VINYL
SYM	SYMMETRICAL
T	TREAD
T&B	TOP AND BOTTOM
TO	TOP OF
TOC	TOP OF CURB / CONCRETE
TOP	TOP OF PARAPET
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TS	TACKABLE SURFACE
U/C	UNDER CABINET (OR COUNTER)
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
VAC	VACUUM
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VIF	VERIFY IN FIELD
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W/	WITH
W/O	WITHOUT
WB	WOOD BASE
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WGT	WEIGHT
WH	WATER HEATER
WP	WATERPROOFING/WALL PROTECTION
WR	WATER RESISTANT
WRGB	WATER RESISTANT GYPSUM BOARD
WS	WOOD SCREW
WSCT	WAINSCOT
WWF	WELDED WIRE FABRIC

NOTE:
OTHER ABBREVIATIONS USED ON THESE DRAWINGS ARE CONSIDERED STANDARDS IN THE BUILDING INDUSTRY. CONTACT ARCHITECT FOR NECESSARY CLARIFICATION.

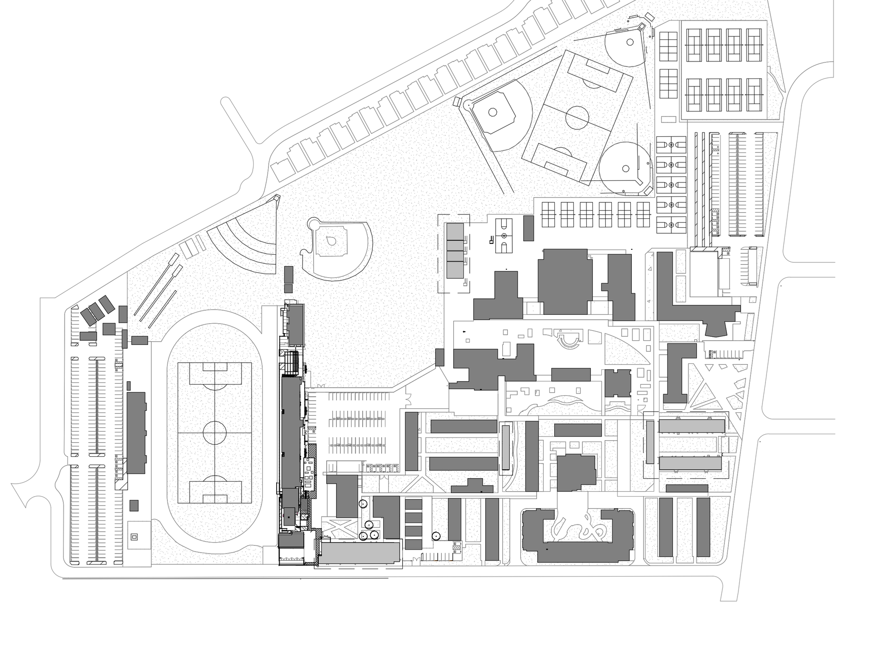
STATE MAP



VICINITY MAP



OVERALL SITE PLAN



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LOS ANGELES, CA, 90071
213 542 8300 / www.hmcarchitects.com

NOT FOR CONSTRUCTION

ISSUE

Δ	DESCRIPTION	DATE
	100% DESIGN DEVELOPMENT	04.13.2026

KEYNOTES

NOTES

FACILITY:
4921 Cedar Ave
El Monte, CA 91732

PROJECT:
EMUSD ARROYO HS - INTERIM HOUSING

SHEET NAME:
PROJECT DATA SHEET

100% DESIGN DEVELOPMENT

DATE: **04/13/26** CLIENT PROJ NO: **3361-008-101**

SHEET:
G0.11

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PLEASE RECYCLE

IF THIS LINE IS NOT EXACTLY 1" AS SHOWN ABOVE, THIS SHEET IS NOT ORIGINAL PAPER SIZE

DESIGN PROFESIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT

THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEET THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBLITY 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 ELEIMATES COMPONENTS OF PORTIONS OF THE POT THAT WERE DETERMINED TO BE NON COMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THE INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS, AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS, OR PORTIONS OF THE POT WHAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHHOLD LIMITATIONS OR A FINDING OF UNRESANOBLE HARDSHIP ARE INDICATED IN THESE CONSTUCTION DOCUMENTS.

DURING CONSTRUCTION IF POT ITEMS WHITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION DOCUMENT.

FOR ACCESSIBLE PATH OF TRAVEL COMPLIANCE OF EXISTING CAMPUS, SEE DSA APPLICATION 03-108334.

PARKING COUNT

(E) PARKING LOT M:
STANDARD STALLS: 160
ACCESSIBLE STALLS: 6 (2 VAN ACCESSIBLE) (6 REQUIRED)

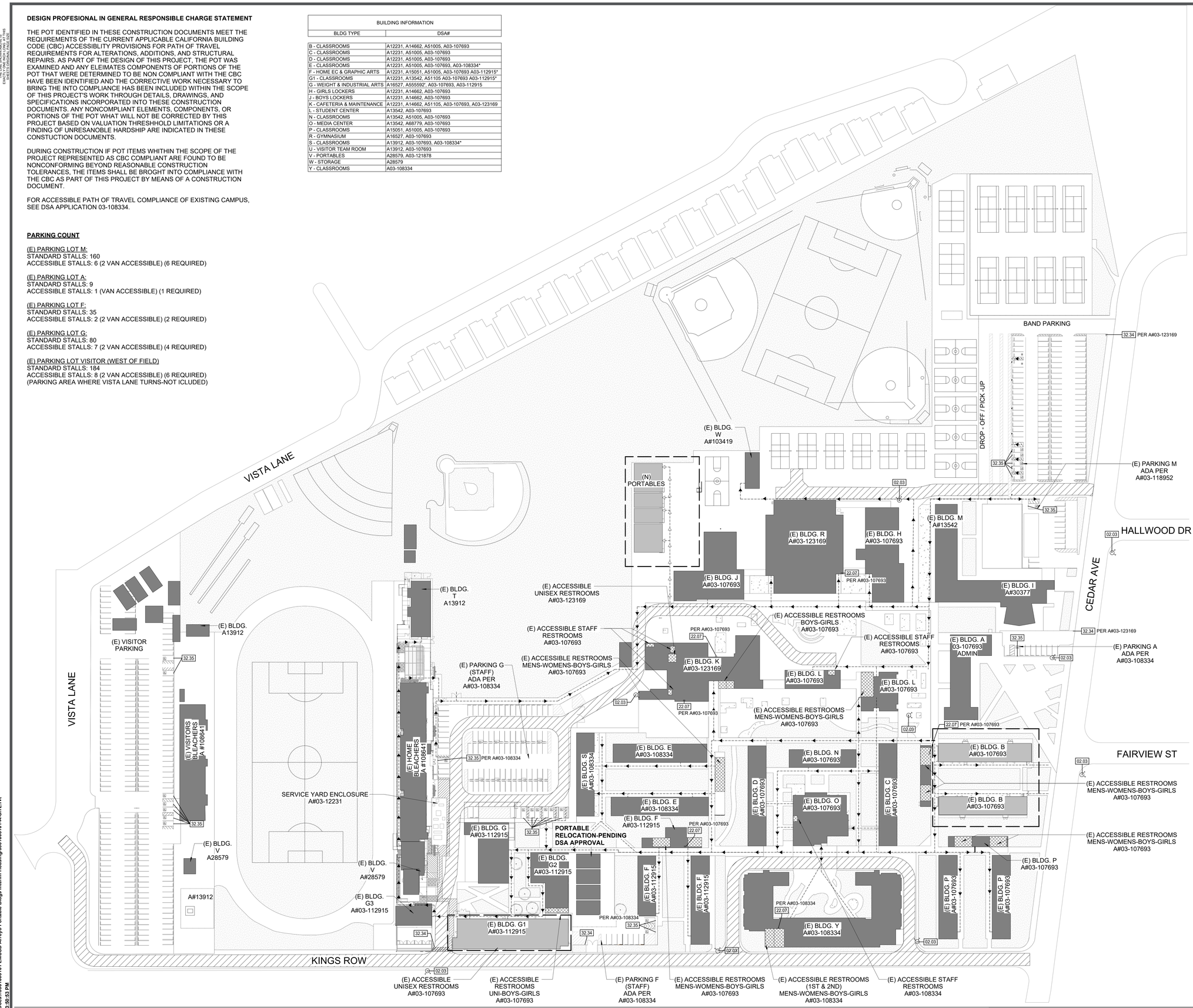
(E) PARKING LOT A:
STANDARD STALLS: 9
ACCESSIBLE STALLS: 1 (VAN ACCESSIBLE) (1 REQUIRED)

(E) PARKING LOT F:
STANDARD STALLS: 35
ACCESSIBLE STALLS: 2 (2 VAN ACCESSIBLE) (2 REQUIRED)

(E) PARKING LOT G:
STANDARD STALLS: 80
ACCESSIBLE STALLS: 7 (2 VAN ACCESSIBLE) (4 REQUIRED)

(E) PARKING LOT VISITOR (WEST OF FIELD)
STANDARD STALLS: 184
ACCESSIBLE STALLS: 8 (2 VAN ACCESSIBLE) (6 REQUIRED)
(PARKING AREA WHERE VISTA LANE TURNS-NOT ICLUDED)

BUILDING INFORMATION	
BLDG TYPE	DSA#
B - CLASSROOMS	A12231, A14662, A51005, A03-107693
C - CLASSROOMS	A12231, A51005, A03-107693
D - CLASSROOMS	A12231, A51005, A03-107693
E - CLASSROOMS	A12231, A51005, A03-107693, A03-108334*
F - HOME EC & GRAPHIC ARTS	A12231, A15051, A51005, A03-107693 A03-112915*
G1 - CLASSROOMS	A12231, A13542, A51105 A03-107693 A03-112915*
G - WEIGHT & INDUSTRIAL ARTS	A16527, A555592, A03-107693, A03-112915
H - GIRLS LOCKERS	A12231, A14662, A03-107693
J - BOYS LOCKERS	A12231, A14662, A03-107693
K - CAFETERIA & MAINTENANCE	A12231, A14662, A51105, A03-107693, A03-123169
L - STUDENT CENTER	A13542, A03-107693
N - CLASSROOMS	A13542, A51005, A03-107693
O - MEDIA CENTER	A13542, A68779, A03-107693
P - CLASSROOMS	A15051, A51005, A03-107693
R - GYMNASIUM	A16527, A03-107693
S - CLASSROOMS	A13912, A03-107693, A03-108334*
U - VISITOR TEAM ROOM	A13912, A03-107693
V - PORTABLES	A28579, A03-121878
W - STORAGE	A28579
Y - CLASSROOMS	A03-108334



1ST FLOOR - ARCHITECTURAL SITE BUILDING PLAN 1 1" = 60'-0"

PLEASE RECYCLE

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COMMITTED TO COLLEGE AND CAREER READINESS

HMC DESIGN FOR GOOD Architects
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LOS ANGELES, CA, 90071
213 542 8300 / www.hmcarchitects.com

NOT FOR CONSTRUCTION

ISSUE

Δ	DESCRIPTION	DATE
	100% DESIGN DEVELOPMENT	04.13.2026

KEYNOTES

02.03	(E) FIRE HYDRANT
22.07	(E) HIGH & LOW DRINKING FOUNTAIN
32.34	(E) TOW-AWAY SIGNAGE
32.35	(E) ADA PARKING STALL SIGNAGE

NOTES

LEGEND

- PARKING LOT STRIPING
- (E) FIRE LANE ACCESS PER A# 03-118952 & 03-123169
- EXISTING BUILDING(S) IN SCOPE
- EXISTING BUILDING(S) & STUCTURE(S) NOT IN SCOPE
- ACCESSIBLE RESTROOMS
- (E) ACCESSIBLE PATH OF TRAVEL DSA#03-108334
- (E) ACCESSIBLE PATH OF TRAVEL DSA#03-123169
- (N) ACCESSIBLE PATH OF TRAVEL
- APPROXIMATE LIMIT OF WORK

FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - INTERIM HOUSING

SHEET NAME:

CODE SITE PLAN

100% DESIGN DEVELOPMENT

DATE: **04/13/26** | CLIENT PROJ NO: **3361-008-101**

SHEET:

G1.11

IF THIS LINE IS NOT 1" LONG THEN DRAWING IS NOT AN EXACT SCALE. ADJUST ACCORDINGLY

FIRE ACCESS SITE PLAN 1 1" = 60'-0"

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:	EL MONTE UNION HIGH SCHOOL DISTRICT
Project Name/School:	ARROYO HIGH SCHOOL
Project Address:	4921 CEDAR AVE, EL MONTE, CA 91732

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 ☐

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED			
		Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.			✔	
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.				
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.			✔	
6a.	**Acceptable Alternate:** The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.			✔	
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: _____ Title: _____

Signature: _____ Date: _____

LOCAL FIRE AUTHORITY (LFA) INFORMATION	
LFA Agency Name:	
LFA Review Official:	
Title:	Work Phone:
Work Email:	

LFA Reviewer's Signature: _____ Date: _____

KEYNOTES

02.03 (E) FIRE HYDRANT

NOTES

LEGEND

- PARKING LOT STRIPING
- (E) FIRE LANE ACCESS PER A# 03-118952 & 03-123169
- EXISTING BUILDING(S) IN SCOPE
- EXISTING BUILDING(S) & STUCTURE(S) NOT IN SCOPE
- ACCESSIBLE RESTROOMS
- APPROXIMATE LIMIT OF WORK
- 250 FT RADIUS FIRE HYDRANT COVERAGE
- A | DIST — HOSE PULL AND DISTANCE (150 FT MAX)
- FIRE HYDRANT - SEE CIVIL DRAWINGS

HMC Architects
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213 542 8300 / www.hmcarchitects.com

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ISSUE

Δ	DESCRIPTION	DATE
	100% DESIGN DEVELOPMENT	04.13.2026

FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - INTERIM HOUSING

SHEET NAME:

LOCAL FIRE AUTHORITY SITE ACCESS PLAN

100% DESIGN DEVELOPMENT

DATE: **04/13/26** CLIENT PROJ NO: **3361-008-101**

SHEET:

G1.51

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PLEASE RECYCLE

IF THE LINE SHOWN ABOVE IS NOT 1" LONG, THE PLANS ARE NOT FULL SIZE SHEETS ORIGINAL PAGE SIZE

GENERAL NOTES:

1. ALL WORK PERFORMED IN THIS CONTRACT SHALL CONFORM TO:
   - A. PROJECT SPECIFICATIONS.
   - B. THE LATEST EDITION AND SUPPLEMENTS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC) AND AMERICAN PUBLIC WORKS ASSOCIATION (APWA).
   - C. EL MONTE UNION HIGH SCHOOL DISTRICT STANDARDS AND SPECIFICATIONS.
   - D. 2022 CALIFORNIA BUILDING CODE, OR LATEST VERSION.
2. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE WORK SPECIFIED ON THE DRAWINGS AND WITHIN THE VARIOUS NOTES SHOWN HEREIN.
3. THE EXISTING CONDITIONS SHOWN DIAGRAMMATICALLY ON THE PLANS ORIGINATED FROM AS BUILT DRAWINGS AND FIELD SURVEY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE JOB SITE AND VERIFY THE EXACT EXISTING CONDITIONS UNLESS CONCEALED BEFORE SUBMITTING HIS BID. ANY DISCREPANCY SHALL BE REPORTED IMMEDIATELY TO THE DISTRICT USING THE PROPER REQUEST FOR INFORMATION FORMS PRIOR TO SUBMITTING HIS BID FOR PROPER ACTION.
4. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES IN THE AREA OF WORK WHICH ARE NOT INCLUDED IN THIS CONSTRUCTION. ANY DAMAGE RESULTING FROM THIS WORK SHALL BE REPAIRED AND/OR REPLACED AT NO ADDITIONAL COST TO THE DISTRICT.

UNDERGROUND SERVICE ALERT:

5. BEFORE COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL OBTAIN AN UNDERGROUND SERVICE ALERT INQUIRY I.D. NUMBER BY CALLING 1-800-422-4133. TWO (2) WORKING DAYS SHALL BE ALLOWED AFTER THE I.D. NUMBER IS OBTAINED AND BEFORE THE EXCAVATION WORK IS STARTED THAT UTILITY OWNERS CAN BE NOTIFIED.

PROTECTION AND RESTORATION OF EXISTING IMPROVEMENTS:

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PUBLIC AND PRIVATE PROPERTY ADJACENT TO THE WORK PER SPPWC SECTION 7-9 OF THE STANDARD SPECIFICATIONS.

REMOVALS:

7. EXISTING STRUCTURES AND SUBSTRUCTURES WHICH ARE INDICATED TO BE REMOVED IN THIS CONSTRUCTION DOCUMENTS SHALL BE TOTALLY REMOVED AND DISPOSED OF OFFSITE, UNLESS OTHERWISE INDICATED. EXISTING FACILITIES WHICH ARE DISCOVERED DURING CONSTRUCTION (INCLUDING WALLS, FOOTINGS AND FOUNDATIONS) SHALL BE REPORTED TO AND COORDINATED WITH THE DISTRICT AS TO THEIR REMOVAL. CONTRACTOR WILL NOTIFY THE DISTRICT IN WRITING PRIOR TO COMMENCING THE WORK.
8. ALL SITE PREPARATION AS INDICATED SHALL BE MADE UNDER THE CONTINUOUS INSPECTION OF THE INSPECTOR OF RECORD (IOR) AND OWNER AUTHORIZED REPRESENTATIVE (OAR). SECURE THE REQUIRED PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY FOR THE CONSTRUCTION OF TRENCHES, SHORING OR EXCAVATIONS WHICH ARE 5 FEET OR DEEPER OR WORK THAT MAY JEOPARDIZE THE WORKERS. SHORING CALCULATIONS SHALL BE PROVIDED AS REQUIRED FOR APPROVAL AND PERMITTING.
9. THE CONTRACTOR SHALL KEEP THE CONSTRUCTION AREA SUFFICIENTLY DAMPENED TO CONTROL DUST CAUSED BY WORK ACTIVITIES AS REQUIRED BY THE DISTRICT AND JURISDICTIONAL AGENCY.
10. ALL WORK IN THE PUBLIC RIGHT OF WAY REQUIRES APPROVAL BY THE JURISDICTIONAL AGENCY DEPARTMENT OF PUBLIC WORKS / TRAFFIC AND TRANSPORTATION DEPARTMENTS BEFORE CONSTRUCTION BEGINS. CONTRACTOR SHALL SECURE AND PAY FOR ANY PERMIT INCLUDING UTILITY CONNECTIONS REQUIRED PRIOR TO CONSTRUCTION.
11. ALL FILL OR BACKFILL SHALL BE COMPACTED TO A MINIMUM 95% RELATIVE COMPACTION.
12. CONSTRUCTION STAKING AND ADJUSTMENTS FOR IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR PAID FOR BY THE CONTRACTOR AND INCLUDED IN THE CONTRACT.
13. VOIDS RESULTING FROM REMOVAL WORK SHALL BE FILLED WITH SUITABLE MATERIALS APPROVED BY THE DISTRICT RETAINED GEOTECHNICAL ENGINEER AND COMPACTED TO AT LEAST 95% MAXIMUM DENSITY PER ASTM D-1557.
14. CONSTRUCT OFFSITE WORK TO COMPLY WITH THE REQUIREMENTS OF THE LOCAL GOVERNING AGENCY. SECURE AND PAY FOR REQUIRED CONSTRUCTION PERMITS.
15. IF EXISTING UTILITIES ARE EXPOSED OR DETERMINED TO EXIST UNDER THE CONSTRUCTION LIMITS, CONTRACTOR SHALL PROVIDE A FLAGGED STAKE THAT INDICATES THEIR LOCATION, TYPE OF UTILITY, SIZE, PIPE MATERIAL AND DEPTH. STAKES SHALL BE INSTALLED NO LESS THAN 50' ON CENTER ON STRAIGHT LINES AND AT BENDS.
16. MAINTAIN A RECORD OF LOCATION OF UTILITY MARKERS ON THE AS-BUILT PLAN AND REINSTALL THEM AFTER PAVING. REPLACE BENT OR UNUSABLE MARKERS FOR ALL UTILITY LINES DISCOVERED WITHIN THE WORK AREA. INSTALL BRASS UTILITY MARKERS INDICATING DIRECTIONS OF LINES AT ALL CHANGES IN DIRECTIONS AFTER PAVING. INFORM THE SURVEYOR TO LOCATE AND RECORD ACTUAL LOCATIONS.
17. UNCLOG, CLEAN AND FLUSH THE WORK AREA DRAINAGE SYSTEM AFTER PAVING AND IMMEDIATELY BEFORE A RAIN FORECAST.
18. ALL GRADING AND CONSTRUCTION ACTIVITIES SHALL COMPLY WITH THE LOCAL GOVERNING AGENCY'S PUBLIC WORKS DEPARTMENT, THAT CONTROLS AND RESTRICTS NOISE FROM THE USE OF CONSTRUCTION AND GRADING EQUIPMENT FROM THE HOURS OF 8:00PM TO 6:30AM, AND ON SUNDAYS AND HOLIDAYS. (MORE RESTRICTIVE CONSTRUCTION ACTIVITY TIMES MAY GOVERN, AS REQUIRED BY THE DEPARTMENT OF REGIONAL PLANNING AND SHOULD BE SHOWN ON THE GRADING PLANS WHEN APPLICABLE.)
19. CALIFORNIA PUBLIC RESOURCES CODE (SECTION 5097.98) AND HEALTH AND SAFETY CODE (SECTION 7050.5) ADDRESS THE DISCOVERY AND DISPOSITION OF HUMAN REMAINS. IN THE EVENT OF DISCOVERY OR RECOGNITION OF ANY HUMAN REMAINS IN ANY LOCATION OTHER THAN A DEDICATED CEMETERY, THE LAW REQUIRES THAT GRADING IMMEDIATELY STOPS AND NO FURTHER EXCAVATION OF DISTURBANCE OF THE SITE, OR ANY NEARBY AREA WHERE HUMAN REMAINS MAY BE LOCATED, OCCUR UNTIL THE FOLLOWING MEASURES HAVE BEEN TAKEN:
   - A. THE COUNTY CORONER HAS BEEN INFORMED AND HAS DETERMINED THAT NO INVESTIGATION OF THE CAUSE OF DEATH IS REQUIRED AND,
   - B. IF THE REMAINS ARE OF NATIVE AMERICAN ORIGIN, THE DESCENDANTS FROM THE DECEASED NATIVE AMERICANS HAVE MADE A RECOMMENDATION FOR THE MEANS OF TREATING OR DISPOSING, WITH APPROPRIATE DIGNITY, OF THE HUMAN REMAINS AND ANY ASSOCIATED GRAVE GOODS.
20. ALL EXPORT OF MATERIAL FROM THE SITE MUST GO TO A PERMITTED SITE APPROVED BY INSPECTOR OF RECORD OR A LEGAL DUMPSITE. RECEIPTS FOR ACCEPTANCE OF EXCESS MATERIAL BY A DUMPSITE ARE REQUIRED AND MUST BE PROVIDED TO THE INSPECTOR OF RECORD UPON REQUEST.
21. ANY ADDITIONAL SURVEYS OR TESTING AS A RESULT OF CONTRACTOR ERROR OR MISINFORMATION WILL BE CHARGED TO THE CONTRACTOR.
22. SITE BOUNDARIES, EASEMENTS, DRAINAGE DEVICES, RESTRICTED USE AREAS SHALL BE LOCATED PER CONSTRUCTION STAKING BY A LICENSED SURVEYOR. PRIOR TO GRADING, AS REQUESTED BY THE INSPECTOR OF RECORD, ALL PROPERTY LINES, EASEMENTS, AND RESTRICTED USE AREAS SHALL BE STAKED.
23. A COPY OF THE APPROVED GRADING PLANS MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE SITE AT ALL TIMES.
24. THE CONTRACTOR SHALL PREPARE, PAY, AND FILE FOR A SWPPP. THE CONTRACTOR SHALL MODIFY AS REQUIRED THE APPROVED SWPPP/EROSION CONTROL PLANS FOR EACH PHASE OF THE PROJECT OR AS CONSTRUCTION ACTIVITIES PROGRESS THROUGH THE DURATION OF THE CONTRACT. THESE MODIFICATIONS SHALL BE REPORTED AND COORDINATED WITH BOTH THE QSD AND THE QSP. ANY MODIFICATIONS TO THE OVERALL DURATION OF CONSTRUCTION SCHEDULE FROM THAT AS SHOWN ON THE CURRENT SWPPP, SHALL ALSO BE REPORTED TO THE QSD. THE QSD SHALL THAN BE REQUIRED TO FILE AN EXTENSION OF CONSTRUCTION OR COI, (CHANGE OF INFORMATION), WITH THE STATE WATER RESOURCE CONTROL BOARD. ALL BMP'S SHALL BE MAINTAINED YEAR ROUND TO THE SATISFACTION OF THE QSD AND QSP.
25. CONTRACTOR SHALL INSTALL TEMPORARY FENCING AROUND THE PERIMETER OF THE CONSTRUCTION SITE AND STAGING AREA. FENCING SHALL BE MINIMUM 8 FEET TALL AND SHALL HAVE A DUST/VISION BARRIER ALONG THE FULL LENGTH. THE DUST/VISION BARRIER SHALL EXTEND THE LENGTH OF THE CONSTRUCTION SITE. THE FENCING SHALL BE ANCHORED TO THE SURFACE AND SHALL BE ABLE TO WITHSTAND A 200-POUND HORIZONTAL POINT LOAD IN ANY DIRECTION. TEMPORARY FENCING POLES AND GATES POST SHALL BE DRIVEN INTO THE GROUND. FENCE STANDS WILL NOT BE ALLOWED. WORK AREA AND STAGING AREA SHALL BE SECURE AT ALL TIMES.

GENERAL NOTES (cont):

26. UTILITIES TO BE VERIFIED IN FIELD TO INSURE THE EXISTING SERVING FACILITIES TO REMAIN. COORDINATE RELOCATION IF REQUIRED. REMOVE INTERFERING SECTIONS OF ALL ABANDONED EXISTING UTILITIES. UTILITY OWNERS OF THESE ABOVE-MENTIONED INTERFERING UTILITIES AND THE DISTRICT OR OAR SHALL BE NOTIFIED IN ADVANCE PRIOR TO START OF REMOVAL.
27. STORM DRAINAGE SYSTEMS SHOWN ON THESE PLANS HAVE BEEN DESIGNED FOR THE ROUGH GRADING SITE CONDITION AT COMPLETION OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE OF THE SITE, DURING INTERIM CONDITIONS OF CONSTRUCTION.
28. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS.
29. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE SCHOOL DISTRICT WITH A COMPLETE SET OF REPRODUCIBLE "AS-BUILT" DRAWINGS OF ALL WORK PERFORMED UNDER THIS CONTRACT, AS SHOWN WITHIN THESE CONSTRUCTION DRAWINGS. ALL FIELD CHANGES SHALL BE SHOWN IN DETAIL ON THE "AS-BUILT" DRAWINGS AND SHALL INCORPORATE AS A MINIMUM, NEW ELEVATIONS, GRADES AND ALIGNMENT OF UNDERGROUND FACILITIES WITH DIMENSIONAL TIES TO BUILDINGS OR OTHER VISIBLE IMPROVEMENTS.
30. THE CONTRACTOR SHALL OBTAIN AN O.S.H.A PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO THE CONSTRUCTION OF TRENCHES OR EXCAVATIONS WHICH ARE FIVE FEET OR DEEPER.
31. CONTRACTOR SHALL SECURE AND PAY FOR TEMPORARY POWER AND WATER TO BE USED FOR HIS/HER MEANS AND METHOD OF CONSTRUCTION.
32. CONSTRUCT STRAIGHT GRADES BETWEEN ELEVATIONS SHOWN ON PLAN UNLESS INTERRUPTED BY A GRADE CHANGE LINE. ANY DEVIATION FROM THE GRADING PLAN MUST HAVE PRIOR APPROVAL FROM THE ENGINEER OF RECORD.
33. "PATH OF TRAVEL (P.O.T) AS INDICATED IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND IS AT LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. (POT) SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTING FROM WALL AND ABOVE 27" AND LESS THAN 80" (11B-307.2). CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT, AND PATH OF TRAVEL COMPLIES WITH CBC 11B-403.
34. SIDEWALK, WALKWAYS, ACCESS TO BUILDING, ACCESS DOORS, PLAY AREAS AND PATH OF TRAVEL SHOWN IN ARCHITECTURAL AND LANDSCAPE DRAWINGS SHALL HAVE NO MORE THAN 2% MAXIMUM CROSS SLOPE. COORDINATE GRADING PLAN WITH ARCHITECTURAL DRAWINGS AND REPORT TO OWNER AUTHORIZED REPRESENTATIVE ANY DISCREPANCY PRIOR TO COMMENCEMENT OF GRADING.
35. UPON COMPLETION OF PROJECT, CONTRACTOR SHALL REMOVE EXISTING CONSTRUCTION FENCING, APPURTENANCES AND OFFICE TRAILERS FROM THE SITE. PAVEMENT SHALL BE PATCHED AND REPAIRED TO MATCH ADJACENT PAVEMENT AND APPROVED BY THE INSPECTOR OF RECORD OR CITY INSPECTOR AS APPLICABLE.
36. GRADE LAWN, TURF, AND PLANTING AREA 1-1/2" MAX AT ACCESSIBLE PATH OF TRAVEL AND 2" MAX AT OTHER AREAS BELOW DESIGN GRADES INDICATED.
37. ADJUST TO GRADE EXISTING MANHOLE RIMS, AND ELECTRICAL VAULT LIDS TO DESIGN GRADES WITHIN THE IMPROVEMENT AREA. CONTRACTOR TO VERIFY LOCATION AND NUMBER OF MANHOLE RIMS, VALVE BOXES AND ELECTRICAL VAULT LIDS IN THE FIELD PRIOR TO BIDDING.
38. IF GRADING AUTHORIZED BY THIS PLAN IS TO EXTEND THROUGH THE RAINY SEASON, OCTOBER 1 THROUGH APRIL 15 OF THE FOLLOWING YEAR, SEPARATE UPDATED PLANS FOR EROSION CONTROL MUST BE SUBMITTED TO JURISDICTIONAL AGENCIES FOR APPROVAL PRIOR TO OCTOBER TO DSA FOR APPROVAL. CONTRACTOR TO PROVIDE STORM WATER PREVENTION PLAN, PRE-CONSTRUCTION AND POST CONSTRUCTION BMPS AND UPDATE FROM TIME TO TIME TO COMPLY WITH THE REQUIREMENTS.
39. CONTRACTOR IS RESPONSIBLE TO ADJUST EXISTING DRY AND / OR PRESSURIZED UTILITY PIPES ABOVE, BELOW AND / OR COORDINATE RELOCATION DUE TO THE INSTALLATION OF NEW GRAVITY LINES (SEWER AND STORM UTILITY PIPES).
40. CONTRACTOR IS REQUIRED TO RESTORE ALL EXISTING IMPROVEMENTS TO THE SAME CONDITION, THAT ARE NOT PART OF THIS PROJECT, THAT EXISTED PRIOR TO STARTING CONSTRUCTION. CONTRACTOR IS TO TAKE PHOTOS/VIDEO OF EXISTING SITE CONDITIONS AND PROVIDE TO OWNER PRIOR TO THE START OF CONSTRUCTION.

HORIZONTAL CONTROL

A CAD GEOMETRIC ELECTRONIC FILE SHALL BE MADE AVAILABLE TO THE CONTRACTOR UPON REQUEST FOR THE CONTRACTOR'S SURVEYOR TO LAYOUT THE CONSTRUCTION STAKING OF THE PROJECT. THE SURVEYOR OR CONTRACTOR WILL NEED TO SIGN A WAIVER FORM BEFORE RELEASE OF ANY CAD ELECTRONIC DRAWINGS.

LEGENDS:

- CONSTRUCT 6" THICK CONCRETE PAVEMENT OVER 6" BASE PER DETAIL 2 ON SHEET C-5.0.
- RELOCATED EXISTING PORTABLE PER ARCHITECTURAL DRAWINGS.
- CONSTRUCT 4" THICK AC SURFACING OVER 6" THICK CRUSHED AGGREGATE BASE (CAB), PER DETAIL 1 ON SHEET C-5.0.
- REPLACE PLANTER AREA MATCH EXISTING IN KIND.
- REMOVE AND RELOCATE EXISTING PORTABLE IN ITS ENTIRETY.
- REMOVE EXISTING AC PAVEMENT AND BASE MATERIAL, FULL DEPTH.
- REMOVE EXISTING CONCRETE PAVEMENT AND BASE MATERIAL, FULL DEPTH.
- CLEAR, GRUB AND REMOVE EXISTING TURF/PLANTER/SHRUBS/EXPOSED SUBGRADE AREA. REMOVE EXISTING SHRUBS AND ROOTS IN THEIR ENTIRETY.

- LIMIT OF REMOVAL
- CENTER LINE
- PROPERTY LINE
- EXISTING CONTOUR MINOR
- EXISTING CONTOUR MAJOR (1355.00)
- CHAIN LINK FENCE
- TUBE STEEL FENCING
- METAL FENCING
- CMU WALL
- COMMUNICATION LINE (C)
- UNDERGROUND ELECTRICAL LINE (E)
- GAS LINE (G)
- OVERHEAD UTILITY (OH)
- STORM DRAIN LINE (SD)
- STREET LIGHT ELECTRICAL LINE (SL)

LEGENDS (CONT.):

- SANITARY SEWER LINE (SS)
- WATER LINE (W)
- ATHLETIC FIELD LIGHTING (ATHLETIC FIELD LIGHTING)
- BACKFLOW PREVENTER
- BASKETBALL HOOP
- BENCH (BENCH)
- BOLLARD (BLRD)
- COMMUNICATION CABINET (C)
- COMMUNICATION VAULT (C)
- CONCRETE SEATWALL (SEATWALL)
- DECIDUOUS TREE (CANOPY)
- DOUBLE CHECK DETECTOR ASSEMBLY
- DRINKING FOUNTAIN (DF)
- ELECTRICAL TRANSFORMER (TRNS)
- ELECTRICAL VAULT (E)
- EVERGREEN TREE (CANOPY)
- FIRE DEPARTMENT CONNECTION (FDC)
- FIRE HYDRANT (FH)
- GAS PRESSURE REGULATOR ASSEMBLY (24"X 12 REG)
- GAS VALVE (GV)
- IRRIGATION CONTROLLER (IC)
- IRRIGATION VALVE (IV)
- PALM TREE
- POST INDICATOR VALVE (PIV)
- SANITARY SEWER MANHOLE OR CLEANOUT (SS)
- SITE LIGHTING (SL)
- STORM DRAIN INLET (DI)
- STORM DRAIN MANHOLE OR CLEANOUT (SD)
- UNKNOWN UTILITY VAULT (UT)
- WATER METER (WM)
- WATER VAULT (WV)

ABBREVIATIONS:

AC	ASPHALT
AOR	AUTHORIZED OWNER REPRESENTATIVE
APWA	AMERICAN PUBLIC WORKS ASSOCIATION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AVE	AVENUE
BFD	BACKFLOW DEVICE
BLDG	BUILDING
BLVD	BOULEVARD
BMP	BEST MANAGEMENT PRACTICES
CAB	CRUSHED AGGREGATE BASE
CL	CENTERLINE
CLF	CHAIN LINK FENCE
CONC/CC	CONCRETE
DF	DRINKING FOUNTAIN
DI	DROP INLET
E	EAST
(E)/EX	EXISTING
ELEC	ELECTRICAL
EP	EDGE OF PAVEMENT
FF	FINISHED FLOOR
FG	FINISHED GRADE
FL	FLOW LINE
FS	FINISHED SURFACE
FT	FEET
GB	GRADE BREAK
ICV	IRRIGATION CONTROL VALVE
INV	INVERT
IOR	INSPECTION OF RECORD
MAX	MAXIMUM
MIN	MINIMUM
N	NORTH
(N)	NEW
NTS	NOT TO SCALE
OC	ON CENTER
OAR	OWNER AUTHORIZED REPRESENTATIVE
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PA	PLANTER AREA
PL	PROPERTY LINE
PLNTR	PLANTER
PP	PERFORATED PIPE
S	SOUTH
SPPWC	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
TC	TOP OF CURB
TE	TOP OF ELEVATION
TG	TOP OF GRATE
TOP	TOP OF ELEVATION
TR	ELECTRICAL TRANSFORMER
VIF	VERIFY IN FIELD
W	WEST

SHEET INDEX:

C-1.0	GENERAL NOTES, LEGENDS, AND ABBREVIATIONS
C-1.1	EXISTING CONDITIONS
C-1.3	POT ANALYSIS
C-1.4	OVERALL SITE PLAN
CD-1.0	ENLARGED SITE DEMOLITION PLAN
C-2.0	ENLARGED SITE CONTROL PLAN
C-3.0	ENLARGED SITE GRADING PLAN
C-5.0	MISCELLANEOUS DETAILS

SURVEY NOTES:

SURVEYOR AND BENCH MARK FOR THIS PRODUCT:

SURVEYOR:

DAVID BECKWITH AND ASSOCIATES, INC
9431 HAVEN AVENUE, SUITE 232
RANCHO CUCAMONGA, CA 91730

BENCH MARK:

BENCHMARK: 1G4157

FOUND 3" BRASS DISK COUNTY SURVEY BENCHMARK IN THE WEST END OF A STORM DRAIN CATCH BASIN LOCATED 45-FT EAST OF THE BCR AT THE NORTHEAST CORNER OF LOWER AZUSA ROAD AND SANTA ANITA AVENUE MARKED "BM 19-8A 1971".

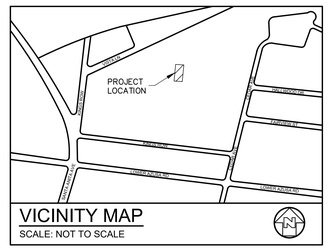
ELEVATION: 318.932 (NAVD88)

BASIS OF BEARINGS:

THE COORDINATES SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, CCS83, ZONE 5, (2010.00 EPOCH) IN ACCORDANCE WITH THE CALIFORNIA PUBLIC RESOURCES CODE SECTIONS 8801-8819; SAID COORDINATES ARE BASED LOCALLY UPON FIELD-OBSERVED TIES TO THE FOLLOWING NATIONAL GEODETIC SURVEY NETWORK, CONTINUALLY OPERATING REFERENCE STATIONS (CORS), OR EQUIVALENT STATIONS.

STATION	NORTHING	EASTING
JPLM	1896965.473	6509289.183
TORP	1748960.131	6461222.485

ALL DISTANCES SHOWN HEREON ARE GROUND DISTANCES AND ARE IN US SURVEY FOOT. GRID DISTANCES CAN BE OBTAINED BY MULTIPLYING GROUND DISTANCES BY A COMBINED FACTOR OF 0.9999774243 FROM POINT #100.



KEYNOTES

NOTES

HMC DESIGN FOR GOOD
Architects
3361-008-000
633 W. 5TH STREET, THIRD FLOOR, LOS ANGELES, CA, 90071
213 542 8300 / www.hmcarchitects.com

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Δ	DESCRIPTION	DATE
	100% DESIGN DEVELOPMENT	04.13.2026

FACILITY:

4921 CEDAR AVENUE
EL MONTE, CALIFORNIA 91732

PROJECT:

EMUSD ARROYO HIGH SCHOOL - INTERIM HOUSING

SHEET NAME: GENERAL NOTES, LEGENDS, AND ABBREVIATIONS

100% DESIGN DEVELOPMENT

DATE: **04/13/26**

CLIENT PROJ NO: **3361-008-101**

SHEET:

C-1.0

MCA ENGINEERS INC
631 S. Atlantic Blvd
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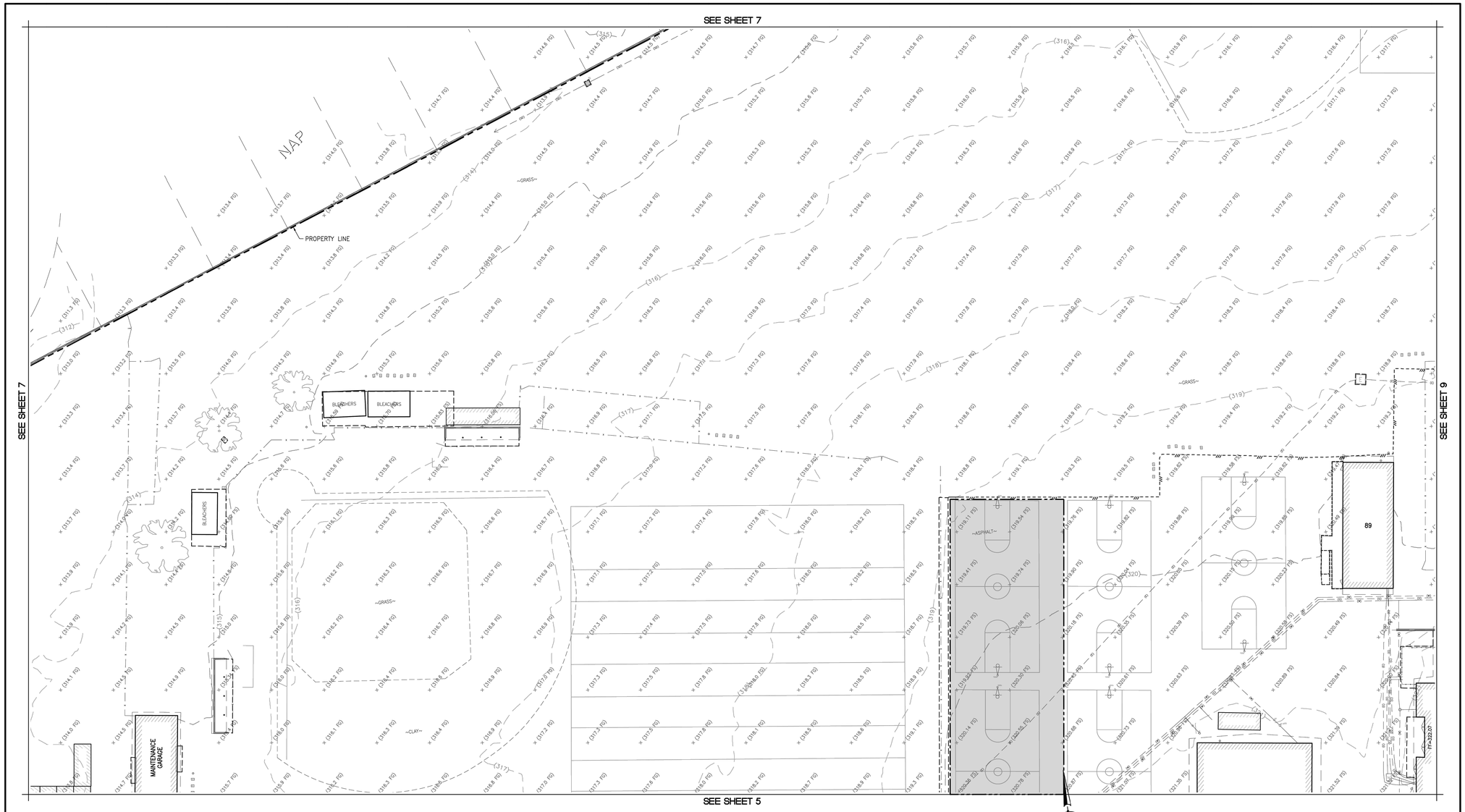

LEGEND

- COMMUNICATIONS LINE (C)
- UNDERGROUND ELECTRICAL (E)
- GAS (G)
- OVERHEAD UTILITY (OH)
- STORM DRAIN (SD)
- STREET LIGHT ELECTRICAL (SL)
- SANITARY SEWER (SS)
- WATER (W)
- CHAIN LINK FENCING
- METAL FENCING
- TUBE STEEL FENCING
- CONTOUR MAJOR (1020)
- CONTOUR MINOR
- CMU WALL
- STORM DRAIN INLET
- STORM DRAIN MANHOLE OR CLEANOUT
- SANITARY SEWER MANHOLE OR CLEANOUT
- IRRIGATION VALVE
- IRRIGATION CONTROLLER
- ELECTRICAL TRANSFORMER
- ELECTRICAL VAULT
- COMMUNICATIONS VAULT
- COMMUNICATIONS CABINET
- WATER METER
- WATER VALVE
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION
- POST INDICATOR VALVE
- DOUBLE CHECK DETECTOR ASSEMBLY
- BACKFLOW PREVENTER
- DRINKING FOUNTAIN
- GAS VALVE
- GAS PRESSURE REGULATOR ASSEMBLY
- UNKNOWN UTILITY VAULT
- BOLLARD
- BASKETBALL HOOP
- SITE LIGHTING
- AHTLETIC FIELD LIGHTING
- CONCRETE SEATWALL
- BENCH
- DECIDUOUS TREE
- EVERGREEN TREE
- PALM TREE
- SPOT ELEVATION (320.56 FS)

FF	FINISHED FLOOR
FG	FINISHED GROUND
FL	FLOWLINE
FS	FINISHED SURFACE
INV	INVERT
NAP	NOT A PART
RIM	TOP OF CLEANOUT/MANHOLE
SNF	SEARCHED, NOTHING FOUND
TC	TOP OF CURB
TG	TOP OF GRATE
TW	TOP OF WALL

GRAPHIC SCALE
20 0 10 20 40 60
(IN FEET)
1 inch = 20 ft.

10/24/2025

DAVID BECKWITH AND ASSOCIATES, INC
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9431 Haven Avenue, Suite 232
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www.davidbeckwithandassociates.com

SHEET	MAP PREPARED FOR:	SHEETS
8	EL MONTE UNION HIGH SCHOOL DISTRICT	10

TOPOGRAPHIC SURVEY MAP FOR:
ARROYO HIGH SCHOOL
4921 CEDAR AVENUE, EL MONTE
EL MONTE UNION HIGH SCHOOL DISTRICT

LEGENDS:

AREA OF WORK

MATCHLINE

FOR REFERENCE ONLY

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PROJECT:

EMUSD ARROYO HIGH SCHOOL - INTERIM HOUSING

SHEET NAME:

EXISTING CONDITIONS

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SHEET:

C-1.1

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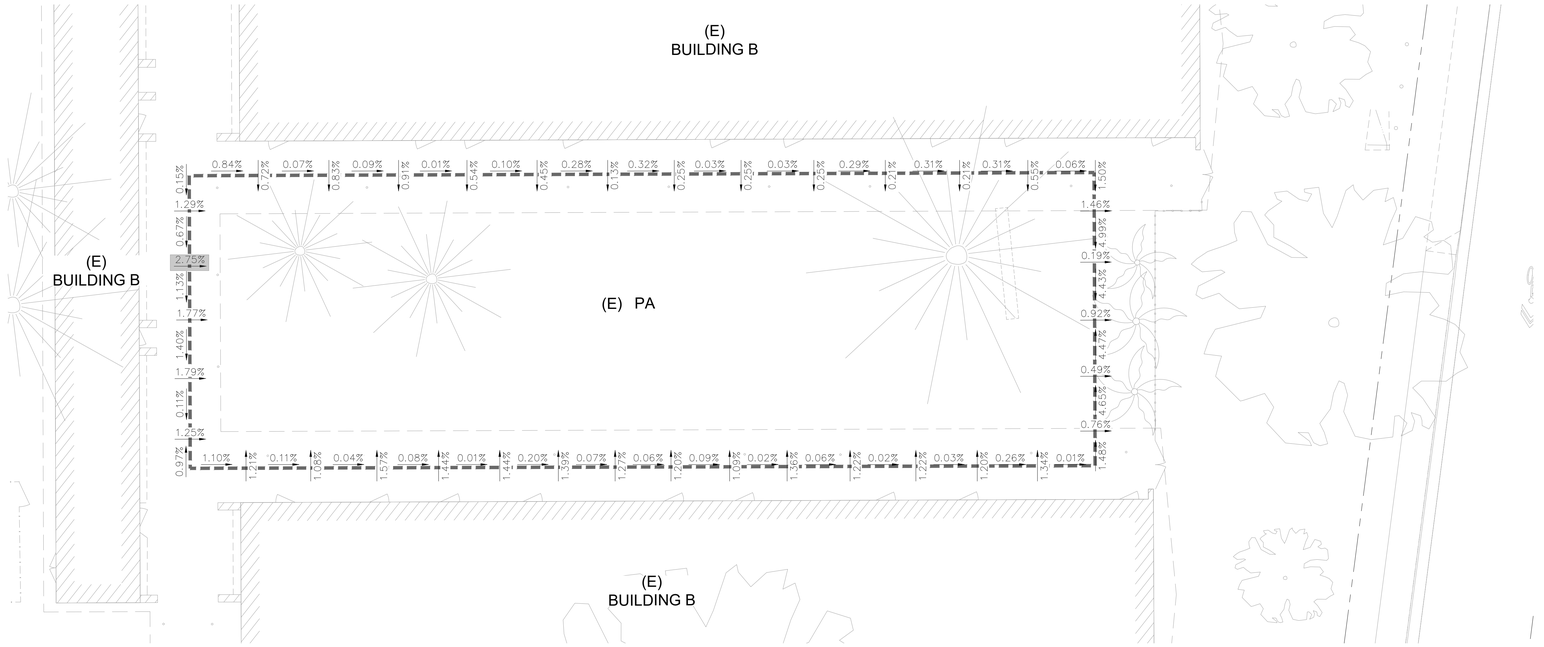
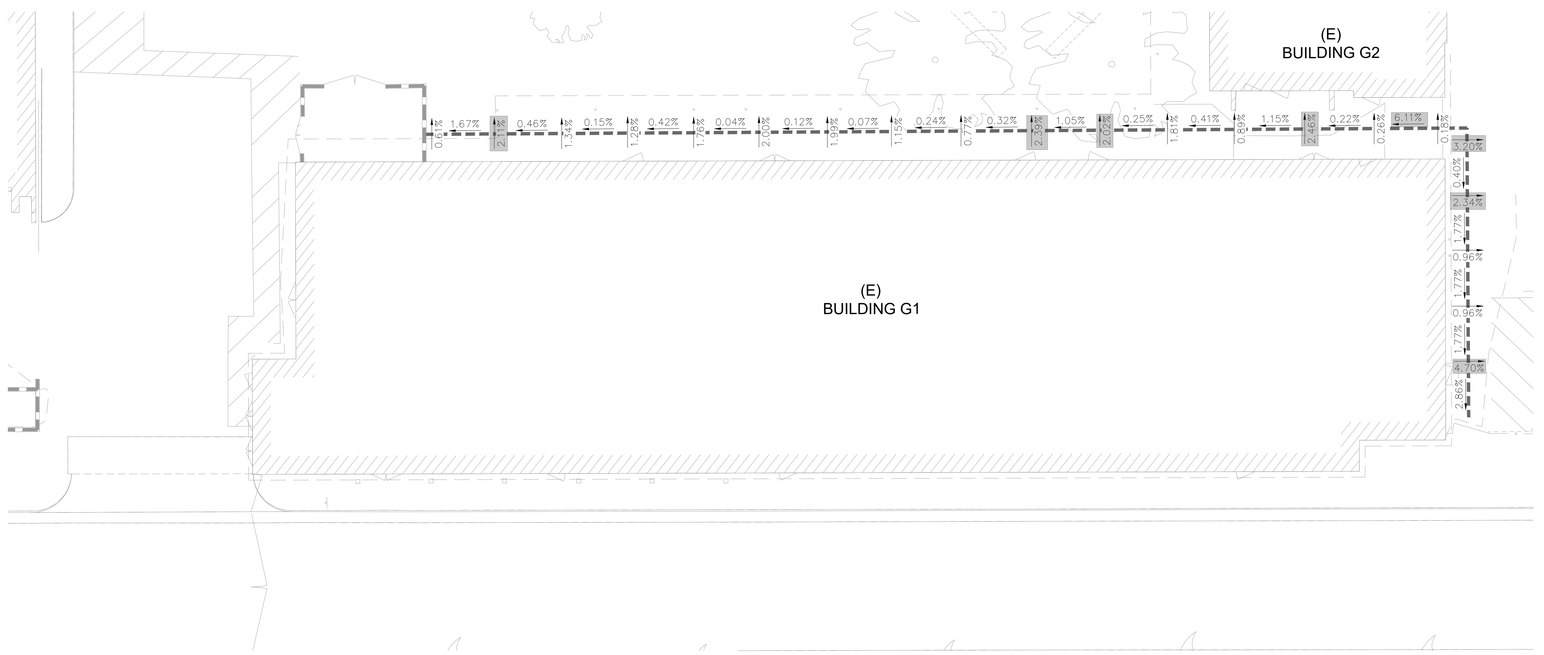


1 POT ANALYSIS PLAN (BUILDING B)
SCALE: 1"=10'



2 POT ANALYSIS PLAN (BUILDING G)
SCALE: 1"=10'

LEGEND:

EXISTING ADA PATH OF TRAVEL

KEYNOTES

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Δ	DESCRIPTION	DATE
	100% DESIGN DEVELOPMENT	04.13.2026

REGISTERED PROFESSIONAL ENGINEER
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Exp. 6/30/26
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STATE OF CALIFORNIA

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EL MONTE, CALIFORNIA 91732

PROJECT:
EMUSD ARROYO HIGH SCHOOL - INTERIM HOUSING

SHEET NAME:
POT ANALYSIS

100% DESIGN DEVELOPMENT

DATE: **04/13/26**
CLIENT PROJ NO: **3361-008-101**

SHEET:
C-1.3

PLEASE RECYCLE

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ENLARGED PLAN 1

ENLARGED SITE DEMOLITION PLAN	CD-1.0
ENLARGED SITE CONTROL PLAN	C-2.0
ENLARGED SITE GRADING PLAN	C-3.0

(E) BUILDING W
(E) AC
(E) AC
(E) AC
(E) PA
(E) AC
(E) BUILDING R
(E) BUILDING H
(E) BUILDING M
(E) PA
(E) PA
(E) AC
HALLWOOD DRIVE
S 83°18'54" E
(E) BUILDING J
(E) BUILDING T
(E) PA
(E) BUILDING I
(E) STORAGE
(E) PA
(E) BUILDING K
(E) AC
(E) BUILDING L
(E) BUILDING L
(E) BUILDING A
(E) CC
(E) CC
(E) PA
(E) AC
(E) AC
FAIRVIEW STREET
N 83°19'42" W
(E) BUILDING E
(E) BUILDING N
(E) BUILDING B
(E) BUILDING S
(E) PA
(E) BUILDING D
(E) BUILDING C
(E) BUILDING B
(E) AC
(E) BUILDING E
(E) BUILDING O
(E) SERVICE YARD ENCLOSURE
(E) BUILDING F
(E) BUILDING P
(E) PA
(E) BUILDING G
(E) BUILDING G2
CEDAR AVENUE
S 14°12'01" W
(E) BUILDING V
(E) BUILDING F
(E) BUILDING F
(E) BUILDING P
(E) BUILDING P
(E) BUILDING G3
(E) AC
(E) BUILDING G1
(E) BUILDING Y

LEGENDS:

AREA OF WORK

MATCHLINE

OVERALL SITE PLAN

40 20 0 40 80

SCALE: 1"=40

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KEYNOTES

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FACILITY:

4921 CEDAR AVENUE
EL MONTE, CALIFORNIA 91732

PROJECT:

EMUSD ARROYO HIGH SCHOOL - INTERIM HOUSING

SHEET NAME:

OVERALL SITE PLAN

100% DESIGN DEVELOPMENT

DATE: **04/13/26**

CLIENT PROJ NO: **3361-008-101**

SHEET:

C-1.4

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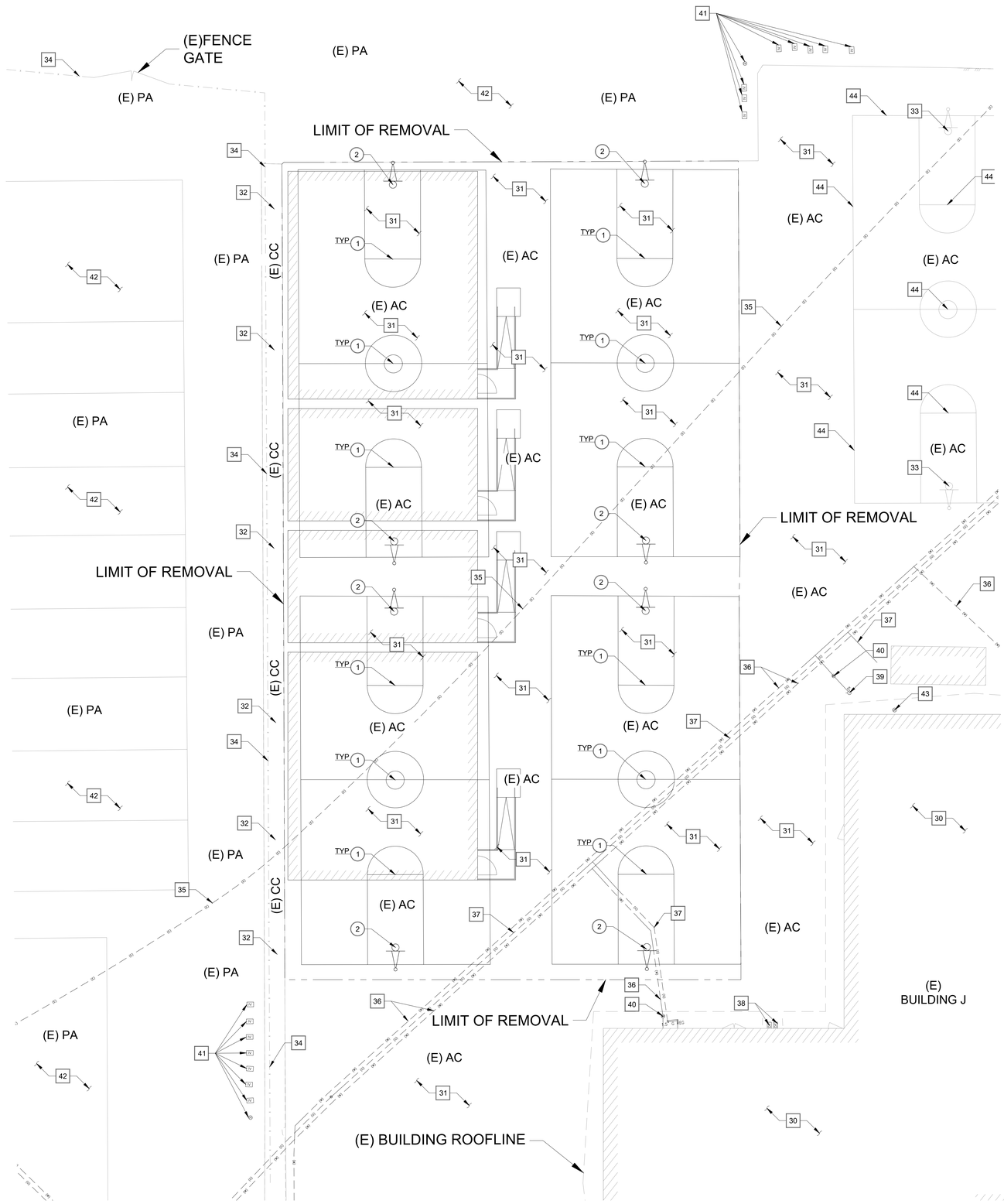


1 ENLARGED SITE DEMOLITION PLAN
SCALE: 1"=10'

REMOVAL NOTES:

1. REMOVE EXISTING STRIPING.
2. REMOVE EXISTING BASKETBALL POLE AND IN THEIR ENTIRELY.

PROTECT-IN-PLACE NOTES:

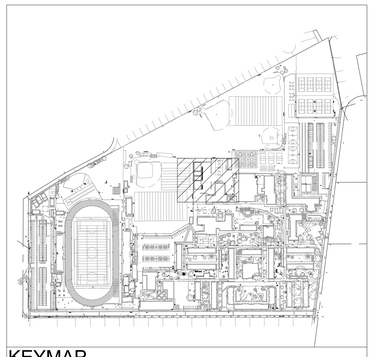
30 PROTECT IN PLACE EXISTING BUILDING.
31 PROTECT IN PLACE EXISTING AC PAVEMENT AND BASE MATERIAL, FULL DEPTH.
32 PROTECT IN PLACE EXISTING CONCRETE PAVEMENT.
33 PROTECT IN PLACE EXISTING BASKETBALL POLE.
34 PROTECT IN PLACE EXISTING CHAINLINK FENCE..
35 PROTECT IN PLACE EXISTING ELECTRICAL LINE.
36 PROTECT IN PLACE EXISTING WATER LINE.
37 PROTECT IN PLACE EXISTING GAS LINE.
38 PROTECT IN PLACE EXISTING DRINKING FOUNTAIN.
39 PROTECT IN PLACE EXISTING FIRE HYDRANT.
40 PROTECT IN PLACE EXISTING WATER VALVE.
41 PROTECT IN PLACE EXISTING IRRIGATION CONTROL VALVE.
42 PROTECT IN PLACE EXISTING TREES, SHRUBS, SOD, ETC. COORDINATE WITH LANDSCAPE DRAWINGS.
43 PROTECT IN PLACE EXISTING UTILITY.
44 PROTECT IN PLACE EXISTING STRIPING.

REMOVAL LEGENDS:

——— – – ——— LIMIT OF REMOVAL

SHEET NOTES:

1. FOR GENERAL NOTES, LEGENDS AND ABBREVIATIONS, SEE SHEET C-1.0.
2. SEE ARCHITECTURAL DRAWINGS FOR OTHER SITE RELATED DIMENSIONS NOT SHOWN ON THIS DRAWING.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND SURFACE AND/OR UNDERGROUND UTILITIES IN CONFLICT WITH THE PROPOSED DEMOLITION AND DESIGN ITEMS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND/OR CONSTRUCTION RELATED ISSUES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.
4. CONTRACTOR TO VERIFY IN FIELD THE JOINING TO EXISTING ELEVATION AND THE CURRENT SITE CONDITION WITH THE DESIGN GRADES. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.



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KEYNOTES

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FACILITY:

4921 CEDAR AVENUE
EL MONTE, CALIFORNIA 91732

PROJECT:

EMUSD ARROYO HIGH SCHOOL - INTERIM HOUSING

SHEET NAME:

ENLARGED SITE DEMOLITION PLAN

100% DESIGN DEVELOPMENT

DATE: **04/13/26**
CLIENT PROJ NO: **3361-008-101**

SHEET:

CD-1.0

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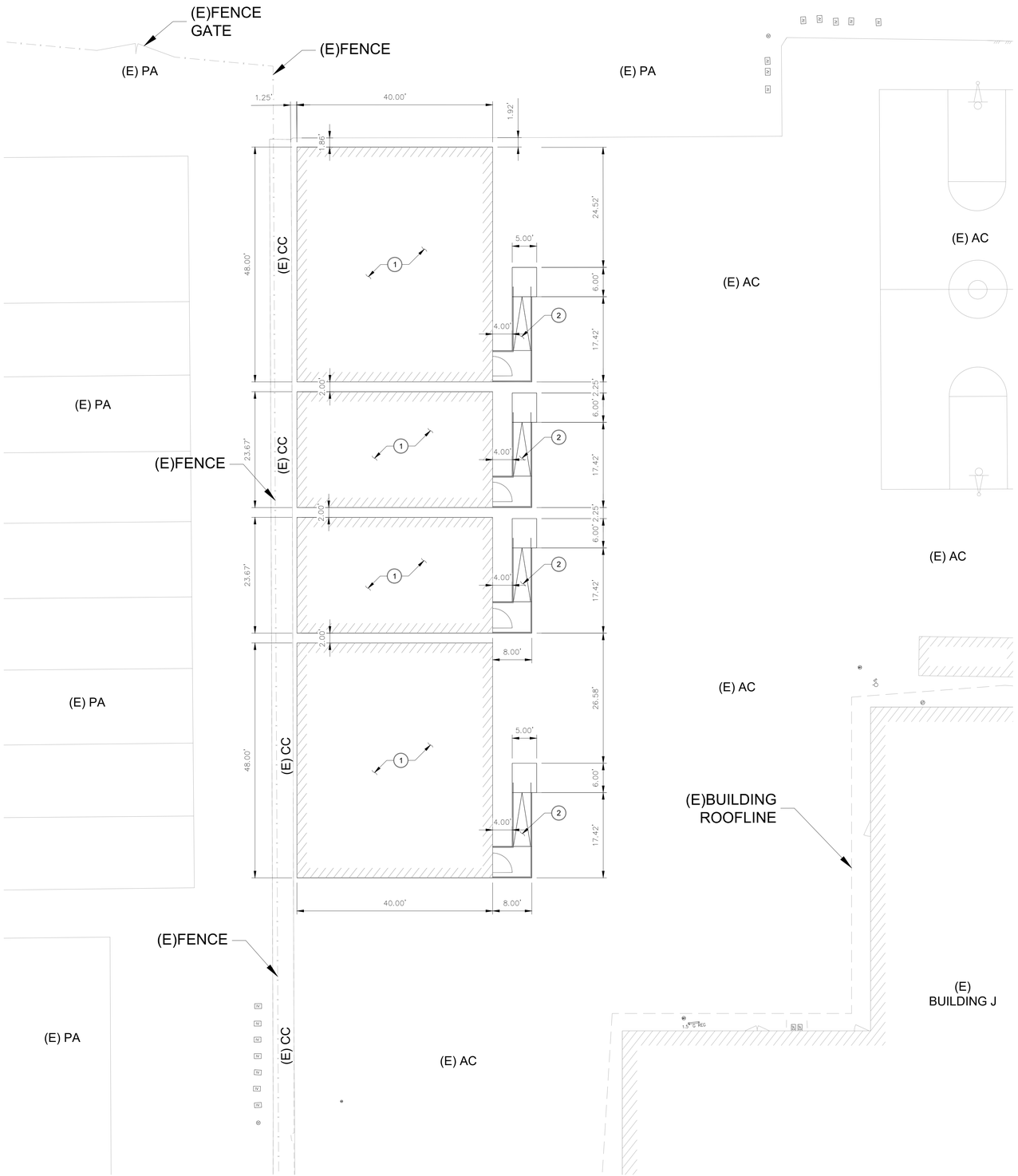


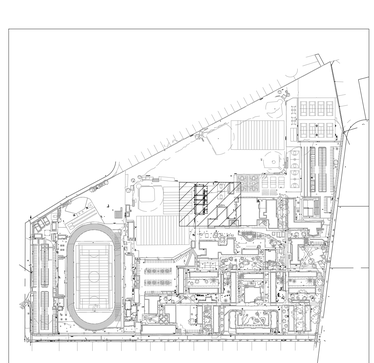
1 ENLARGED SITE CONTROL PLAN
SCALE: 1"=10'

CONSTRUCTION NOTES:

1. INSTALL NEW PORTABLE BUILDING PER ARCHITECTURAL DRAWINGS.
2. INSTALL NEW TMP RAMP, PLATFORM AND RAILINGS PER ARCHITECTURAL DRAWINGS.

SHEET NOTES:

1. FOR GENERAL NOTES, LEGENDS AND ABBREVIATIONS, SEE SHEET C-1.0.
2. REFER TO ARCHITECTURAL DRAWINGS FOR OTHER SITE DIMENSIONS AND IMPROVEMENTS NOT SHOWN ON THIS DRAWING.



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PROJECT:
EMUSD ARROYO HIGH SCHOOL - INTERIM HOUSING

SHEET NAME:
ENLARGED SITE CONTROL PLAN

100% DESIGN DEVELOPMENT

DATE: **04/13/26**
CLIENT PROJ NO: **3361-008-101**

SHEET:
C-2.0

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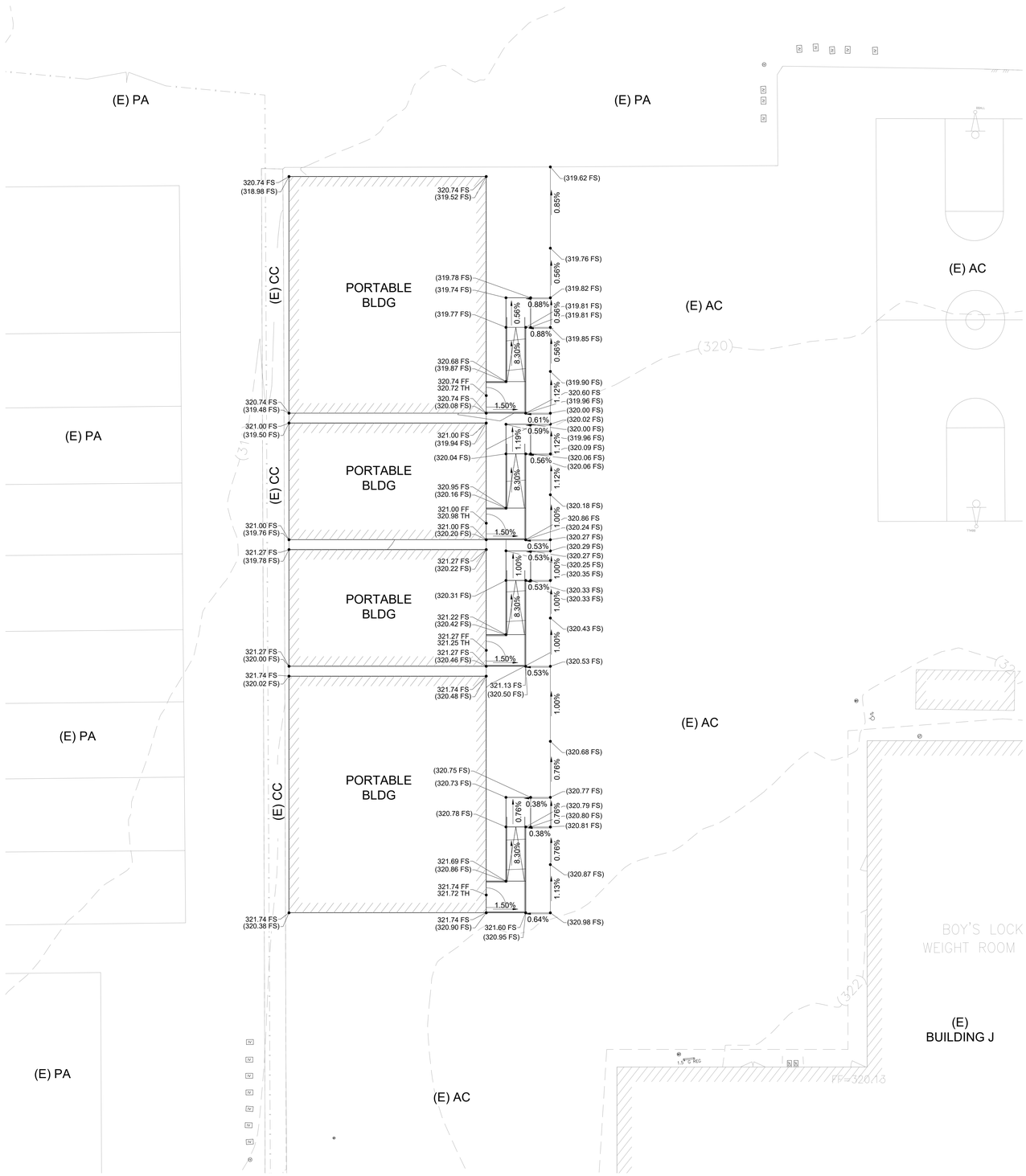
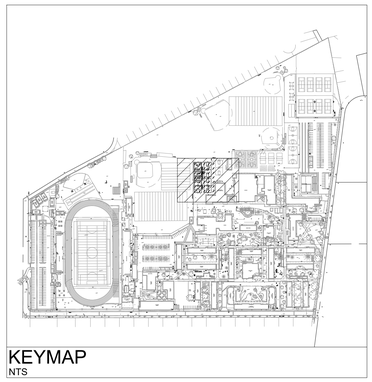


1 ENLARGED SITE GRADING PLAN
SCALE: 1"=10'

SHEET NOTES:

1. ALL GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE JURISDICTIONAL AGENCIES.
2. PROVIDE A HAUL ROUTE AS REQUIRED BY THE JURISDICTIONAL AGENCIES.
3. NO GRADING WORK SHALL BE PERFORMED AT ANY TIME WITHOUT AN EROSION SYSTEM APPROVED BY THE ENGINEER AND THE JURISDICTIONAL DISTRICT.
4. CONSTRUCT DESIGN GRADES SHOWN ON PLAN. CONSTRUCT STRAIGHT GRADES BETWEEN INDICATED ELEVATIONS UNLESS INTERRUPTED BY A GRADE CHANGE LINE. ANY DEVIATIONS FROM THE GRADING PLAN MUST HAVE PRIOR APPROVAL OF THE ARCHITECT.
5. CONTRACTOR SHALL RECOMPACT THE TOP 12" OF THE PAVING SUB GRADE TO 95% MAXIMUM RELATIVE DENSITY.
6. THE CONTRACTOR SHALL NOT BEGIN THE PAVING OPERATION UNTIL THE SUB GRADE HAS BEEN APPROVED BY THE DISTRICT RETAINED GEOTECHNICAL ENGINEER AND IOR.
7. THE CONTRACTOR IS ADVISED THAT THE APPROVAL OF THIS PLAN DOES NOT WAIVE THE REQUIREMENTS FOR EXCAVATIONS CONTAINED IN THE STATE CONSTRUCTION SAFETY ORDERS ENFORCED BY THE STATE DIVISION OF INDUSTRIAL SAFETY.
8. NO FILL TO BE PLACED, UNTIL THE GEOTECHNICAL ENGINEER OR IOR HAS INSPECTED AND APPROVED THE BOTTOM OF EXCAVATION.
9. ALL FILL OR BACK FILL SHALL BE COMPACTED BY MECHANICAL MEANS TO A MINIMUM 95% RELATIVE COMPACTION AS DETERMINED BY THE ASTM D-1557. ALL FILL INSTALLATION SHALL REQUIRE CERTIFICATION BY THE GEOTECHNICAL ENGINEER PRIOR TO FOUNDATION INSTALLATION.



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PROJECT:

EMUSD ARROYO HIGH SCHOOL - INTERIM HOUSING

SHEET NAME:

ENLARGED SITE GRADING PLAN

100% DESIGN DEVELOPMENT

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SHEET:

C-3.0

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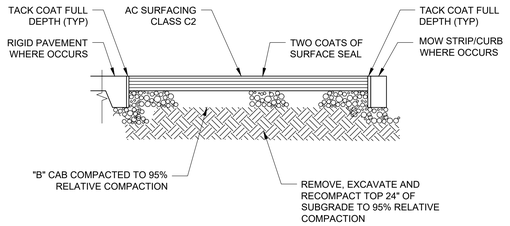
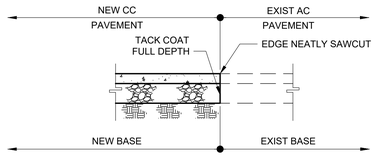
LOCATION	A C		BASE COURSE		
	THICKNESS "A"	CLASS	THICKNESS "B"	TYPE	GRADE
TRACK LOCATION/ PARKING/LIGHT TRAFFIC	4"	C2	6"	CAB	FINE

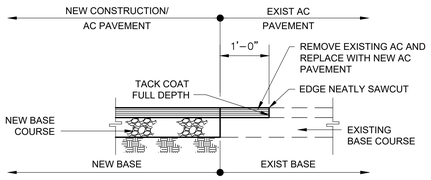


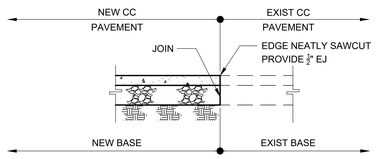
NOTES:

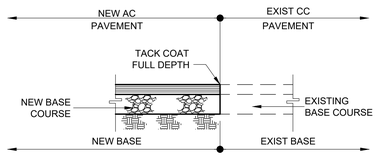
1. FOR PAVEMENT JOINT REFER TO DETAIL 4 ON THIS SHEET.
2. THE EXISTING GRADE IN THIS AREA SHOULD BE REMOVED AND RECOMPACTED A MINIMUM OF TWELVE INCHES (12") BELOW THE PROPOSED SUBGRADE ELEVATION.

1 ASPHALT PAVEMENT DETAIL
NOT TO SCALE









2 PAVEMENT JOINT DETAIL
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PROJECT:

EMUSD ARROYO HIGH SCHOOL - INTERIM HOUSING

SHEET NAME:

MISCELLANEOUS DETAILS

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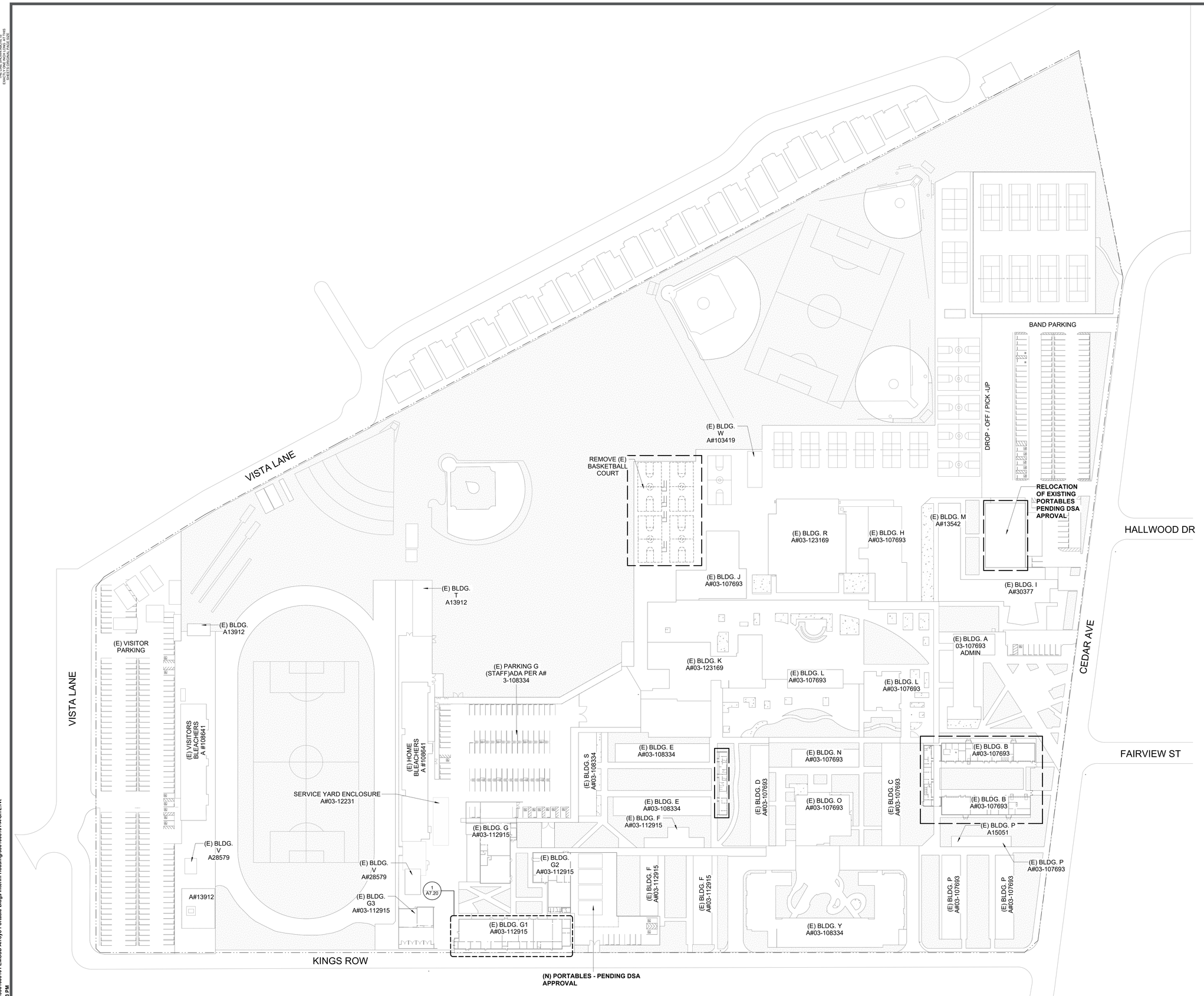

ARCHITECTURAL DEMOLITION SITE PLAN 1

1" = 60'-0"

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KEYNOTES

NOTES

1. REFER TO SHEET G0.11 FOR TYPICAL SYMBOLS AND ABBREVIATIONS
2. REFER TO LANDSCAPE DRAWINGS FOR PAVING AND PLANTING INFORMATION
3. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR UTILITY INFORMATION
4. CONTRACTOR IS RESPONSIBLE FOR REPAIR/REPLACEMENT OF ALL HARDSCAPE/PLANTING OUTSIDE OF LIMIT OFWORK LINE FOR CONNECTION OF UNDERGROUND UTILITIES

LEGEND

- APPROXIMATE LIMIT OF WORK. REFER TO ADDITIONAL DRAWINGS FOR WORK WHICH MAY EXTEND BEYOND THIS APPROXIMATE LIMIT OF WORK LINE.
- PROPERTY LINE
- EXISTING TO BE DEMOLISHED
- EXISTING BUILDINGS

FACILITY:

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El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - INTERIM HOUSING

SHEET NAME:

SITE DEMOLITION PLAN

100% DESIGN DEVELOPMENT

DATE: **04/13/26** | CLIENT PROJ NO: **3361-008-101**

SHEET:

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- ARCHITECTURAL SITE PLAN - 1
1" = 60'-0"

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KEYNOTES

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3. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR UTILITY INFORMATION
4. CONTRACTOR IS RESPONSIBLE FOR REPAIR/REPLACEMENT OF ALL HARDSCAPE/PLANTING OUTSIDE OF LIMIT OFWORK LINE FOR CONNECTION OF UNDERGROUND UTILITIES

LEGEND

- PARKING LOT STRIPING
- (E) FIRE LANE ACCESS PER A# 03-118952 & 03-123169
- EXISTING BUILDING(S) IN SCOPE
- EXISTING BUILDING(S) & STUCTURE(S) NOT IN SCOPE

FACILITY:

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PROJECT:

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SHEET NAME:

PROJECT SITE PLAN

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DATE: **04/13/26**

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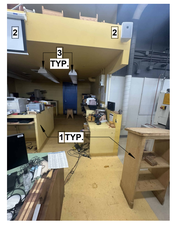
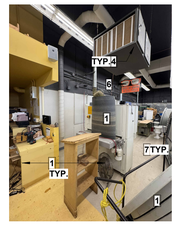


INTERIOR ELEVATION 14A 15 — 1/8" = 1'-0"

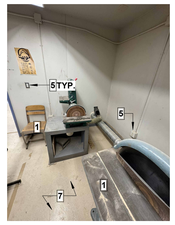
INTERIOR ELEVATION 12A 13 — 1/8" = 1'-0"

INTERIOR ELEVATION 10A 11 — 1/8" = 1'-0"



INTERIOR ELEVATION 8A 9 — 1/8" = 1'-0"

INTERIOR ELEVATION 6A 7 — 1/8" = 1'-0"



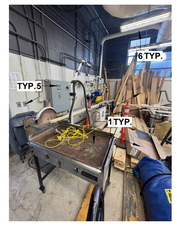
INTERIOR ELEVATION 4A 5 — 1/8" = 1'-0"

INTERIOR ELEVATION 2A 3 — 1/8" = 1'-0"

INTERIOR ELEVATION 13A 14 — 1/8" = 1'-0"

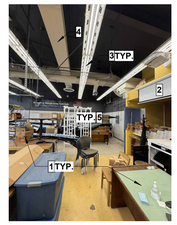
INTERIOR ELEVATION 11A 12 — 1/8" = 1'-0"

INTERIOR ELEVATION 9A 10 — 1/8" = 1'-0"



INT. ELEVATION 7A 8 — 1/8" = 1'-0"

INTERIOR ELEVATION 5A 6 — 1/8" = 1'-0"



INTERIOR ELEVATION 3A 4 — 1/8" = 1'-0"

INTERIOR ELEVATION 1A 2 — 1/8" = 1'-0"

DEMOLITION WORK - GENERAL NOTES

1. REMOVE ALL EXISTING FINISHES. THIS INCLUDES WALL FINISHES, FLOOR FINISHES AND COVER PLATES.
2. REMOVE ALL MILLWORK AND FURNITURE, TYP THROUGHOUT THE SPACE.
3. PATCH EXISTING CONSTRUCTION WHERE DAMAGES OCCUR BY DEMOLITION ACTIVITIES. PAINT TO MATCH EXISTING.
4. PROTECT ALL EXISTING FINISHES TO REMAIN THROUGHOUT CONSTRUCTION AS NECESSARY.
5. REMOVE AND PROTECT ALL EQUIPMENT STORED IN THIS FACILITY. STORE IT AS DIRECTED IN FIELD BY OWNER REPRESENTATIVE AND / OR CM.
6. PROVIDE NEW COVER PLATES UNLESS NOTED BY ELECTRICAL DRAWINGS. GENERAL CONTRACTOR TO FIELD VERIFY .EXISTING CONDITIONS AND DIMENSIONS, WITH DEMO PLAN AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
7. NEW EPOXY FLOORING THROUGHOUT INCLUDING EXISTING EPOXY FLOORING AT 6" BASE COVE.
8. REPLACE FIRE SIGNS ALONG EXISTING FRP WALL AND E-INSTALL AT SAME LOCATION AFTER FRP WALL INSTALLATION.
9. CAP ALL EXISTING GAS LINE PIPING THROUGHOUT THE WOOD SHOP SPACE.
10. ALL LIGHT FIXTURES, HVAC EQUIPMENT AND ELECTRICAL PANELS/DEVICES ARE TO REMAIN UON. PROTECT IN PLACE.
11. ALL SIGNAGE TO BE REMOVED. PREPARE WALL AND CEILING TO RECEIVE NEW.

DEMOLITION WORK ELEVATIONS AND PLAN - KEYNOTES

1. REMOVE ALL MILLWORK, CASEWORK AND FURNITURE, WOOD PLANKS AND ALL WOOD SHOP ASSOCIATED EQUIPMENT . TYPICAL.
2. REMOVE PROJECTOR AND SPEAKER. PATCH WALL IF DAMAGED AFTER REMOVAL. TYPICAL.
3. ALL LIGHT FIXTURES ARE TO REMAIN. PROTECT DURING DEMOLITION AND CONSTRUCTION PHASES.
4. ALL HVAC EQUIPMENT, VENTS, DUCTS, ETC ARE TO REMAIN UON. COORDINATE WITH MEP ENGINEER.
5. LIGHT SWITCHES, OUTLETS AND ELECTRICAL PANELS ARE TO REMAIN, UON.
6. REMOVE SIGNAGE, UON.
7. CAP ALL GAS LINE PIPES.
8. REMOVE ALL EXISTING FLOORING THROUGHOUT (IF APPLICABLE). CLEAN AND PREPARE FLOOR TO RECEIVE NEW FINISH
9. EXISTING DOOR AND HARDWARE TO REMAIN

FLOOR PLAN - KEYNOTES

01 NEW FLOORING

02 ALL PARTITIONS TO RECEIVE NEW FINISH. PAINT COLOR TBD

03 PATCH AND REPAIR EXISTING CEILING FOR LIKE NEW FINISH

DEMO BUILDING G1 - WOOD SHOP AREA 1 — 1/4" = 1'-0"

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KEYNOTES

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LEGEND

- EXISTING ELEMENT TO REMAIN
- EXISTING ELEMENT TO BE DEMOLISHED
- 3A — INTERIOR ELEVATION
- XX — FLOOR PLAN KEYNOTE
- XX — DEMOLITION FLOOR PLAN AND ELEVATION KEYNOTE

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PROJECT:

EMUSD ARROYO HS - INTERIM HOUSING

SHEET NAME:

DEMOLITION BUILDING G1

100% DESIGN DEVELOPMENT

DATE: **04/13/26**

CLIENT PROJ NO: **3361-008-101**

SHEET:

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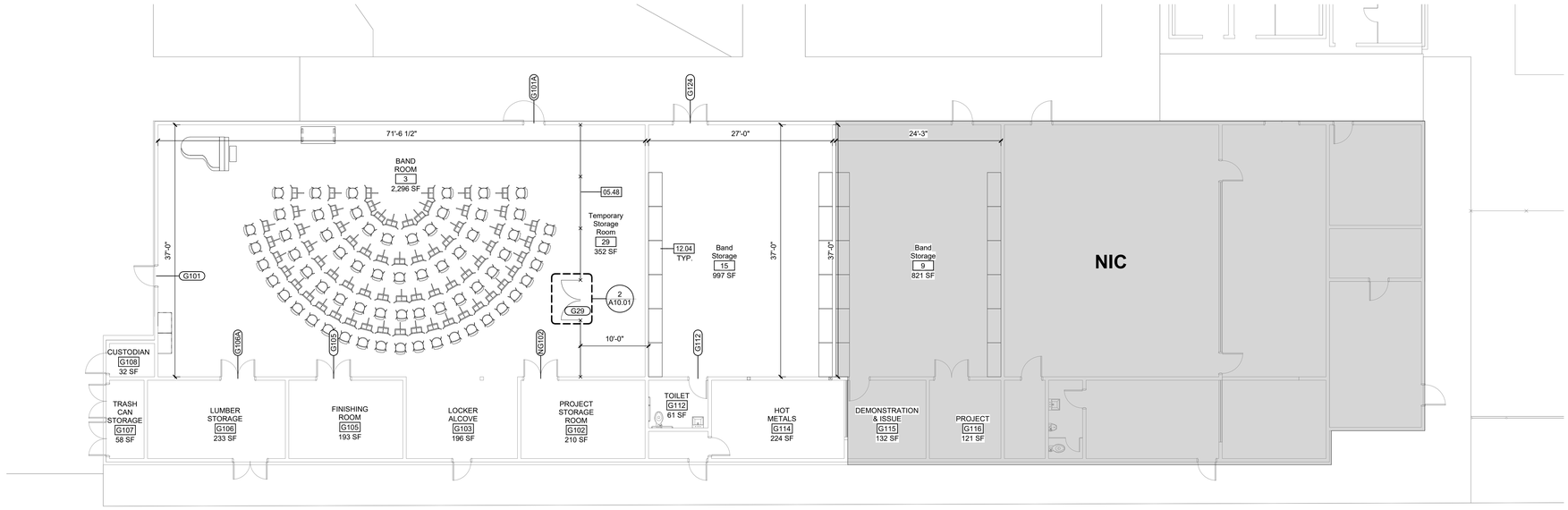

ENLARGED PLAN BUILDING G — 1 — 1/8" = 1'-0"

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KEYNOTES

05.48	NEW CHAIN LINK FENCE
12.04	BAND STORAGE

NOTES

LEGEND

- EXISTING ELEMENT TO REMAIN
- EXISTING DOOR TO REMAIN
- NEW ELEMENT
- NEW CHAINLINK WITH GATE

FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:
EMUSD ARROYO HS - INTERIM HOUSING

SHEET NAME:
ENLARGED BUILDING G

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DATE: **04/13/26** | CLIENT PROJ NO: **3361-008-101**

SHEET:

A7.21

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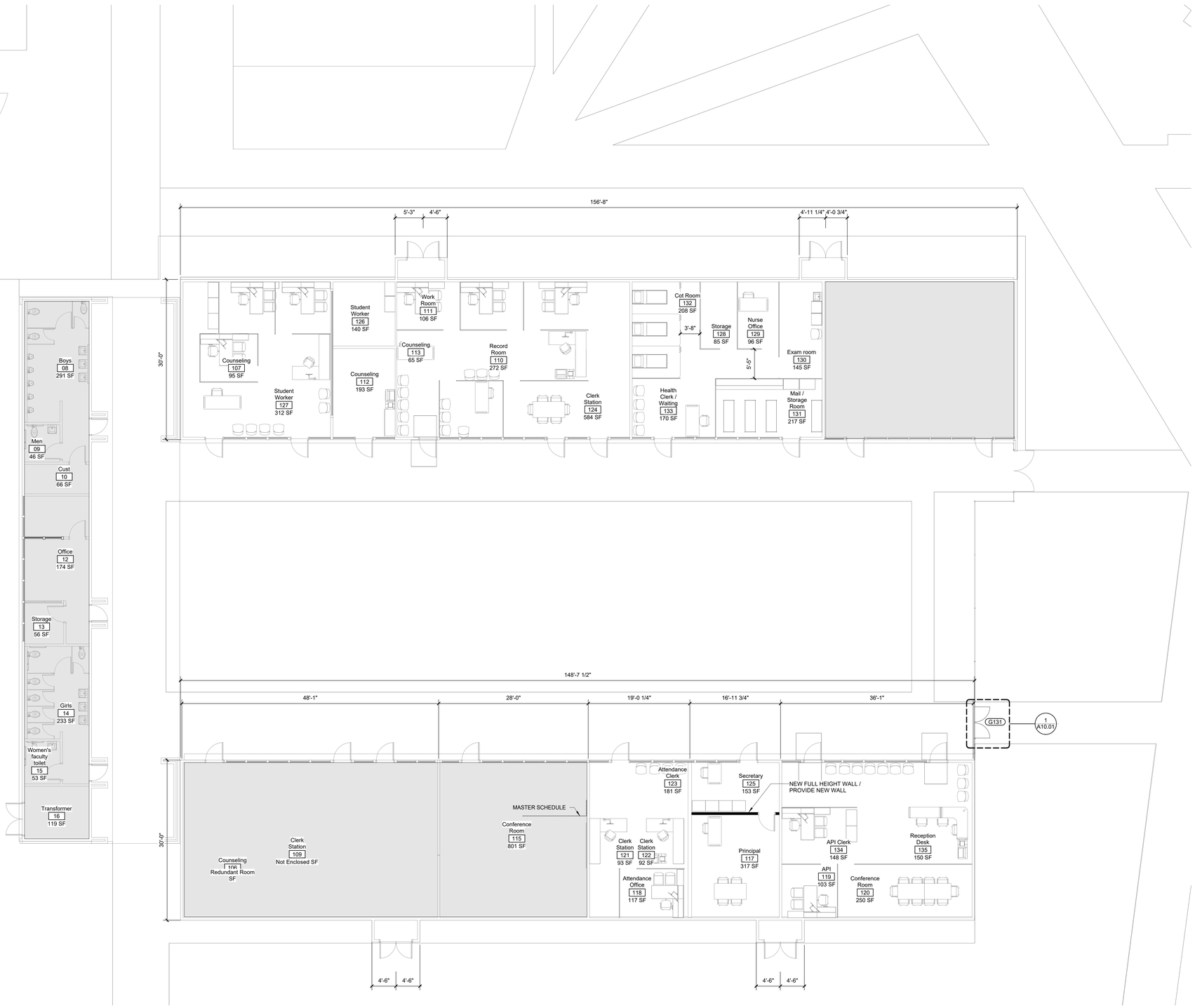

ENLARGED PLAN BUILDING B

1
1/8" = 1'-0"

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KEYNOTES

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- EXISTING ELEMENT TO REMAIN
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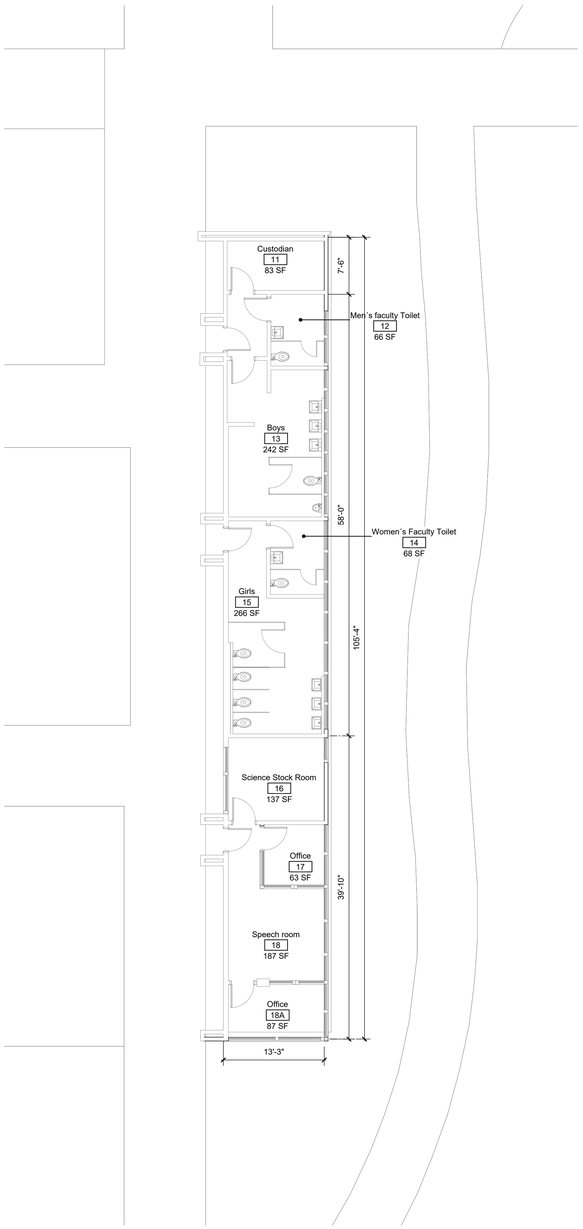

ENLARGED PLAN SPEECH ROOM 2

1/8" = 1'-0"

ENLARGED PLAN PORTABLES 1

1/8" = 1'-0"

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KEYNOTES

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LEGEND

EXISTING ELEMENT TO REMAIN

NEW ELEMENT

FACILITY:

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El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - INTERIM HOUSING

SHEET NAME:

ENLARGED COURTS W/PORTABLES AND SPEECH ROOM

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CLIENT PROJ NO: **3361-008-101**

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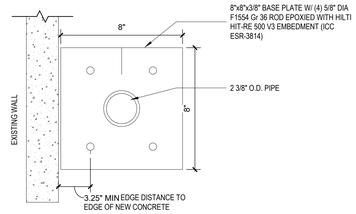
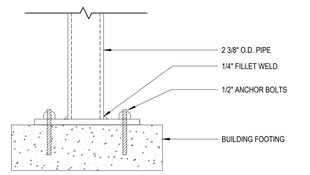
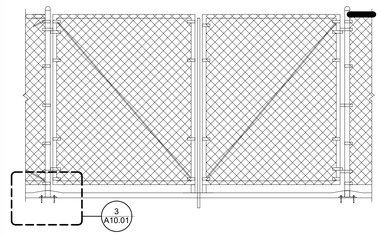




COORDINATE WITH CIVIL ENGINEER AS PER SITE CONDITIONS

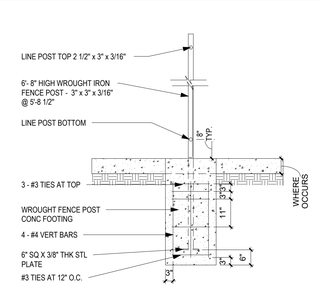
DOUBLE C.L GATE PLATE DETAIL 3 — 3" = 1'-0"



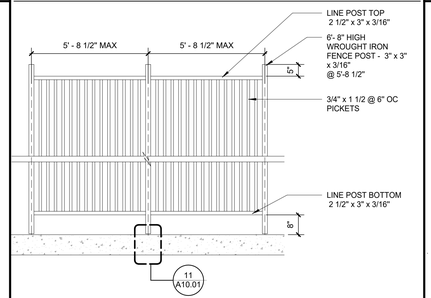
6´ DOUBLE C.L GATE W/PLATE 2 — 1/2" = 1'-0"

GATE SCHEDULE

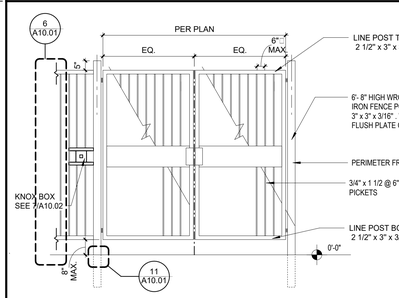
NUMBER	SIZE: WIDTH: PANEL 1	SIZE: WIDTH: PANEL 2	SIZE: HEIGHT	DOOR MATERIAL	FIRE RATING (MINUTES)	HARDWARE GROUP	PANIC HARDWARE	COMMENTS
G131	3'-0"	3'-0"	6'-0"	ORNAMENTAL METAL		TBD	Yes	ACCESSIBLE GATE AND HARDWARE WITH HYDRAULIC CLOSER AND KICK PLATE
G29	3'-0"	3'-0"	6'-0"	GALV. CHAINLINK		TBD		SERVICE GATE WITH FORK LATCH AND CANE BOLT/ CHAIN LINK GATE TO MATCH (E) FENCE MATERIAL AND FINISH



WROUGHT IRON FENCE FOOTING DETAIL 11 — 1/2" = 1'-0"



WROUGHT IRON FENCE ELEVATION 6 — 1/2" = 1'-0"



WROUGHT IRON SECURITY GATE 1 — 3/8" = 1'-0"

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PROJECT:

EMUSD ARROYO HS - INTERIM HOUSING

SHEET NAME:

SITE AND MISCELLANEOUS DETAILS

100% DESIGN DEVELOPMENT

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CLIENT PROJ NO: **3361-008-101**

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A10.01

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ELECTRICAL GENERAL NOTES

1. CONSULT WITH THE OWNER'S REPRESENTATIVE BEFORE STARTING WORK. NO CONDUITS ARE TO BE INSTALLED ON ARCADES OR ROOF U.O.N. ANY CONDUITS INSTALLED ON ROOF SHALL BE LIMITED TO 5'-0" OF SOLAR EXPOSURE.
2. CONDUIT RUNS TO ROOF MOUNTED EQUIPMENT SHALL BE ACCOMPLISHED USING RUNS BELOW ROOF UNTIL UNDER THE EQUIPMENT, THEN THE RUN SHALL PENETRATE THE ROOF AT THE EQUIPMENT. COORDINATE THE ELECTRICAL WORK WITH THE WORK OF OTHER TRADES.
3. THE CONTRACTOR SHALL USE SUFFICIENT BARRICADES AND TEMPORARY PROTECTION DEVICES TO PREVENT PEDESTRIANS OR NON-AUTHORIZED PERSONNEL ACCESS TO ANY OPEN TRENCHES OR CONSTRUCTION ACTIVITY.
4. THE CONTRACTOR SHALL ERECT A SAFETY BARRICADE AT ALL OPEN TRENCHES, DITCHES, PITS, SUMPS, ETC FOR THE PROTECTION AND SAFETY OF THE PUBLIC.
5. ALL TRENCHES OUTSIDE OF THE BARRICADE LIMITS SHALL BE BACKFILLED AND PAVED NOT LATER THAN 72 HOURS AFTER BEING OPENED.
6. DURING THE TIME THE TRENCHES ARE OPEN IN TRAFFIC AREAS, THE CONTRACTOR SHALL PROVIDE TRAFFIC PLATES. SAFETY BARRICADES SHALL BE PANELIZED CHAIN LINK FENCE.
7. EACH FENCE PANEL SHALL BE 6FT TALL x 10FT WIDE WITH STAND AND TIED TOGETHER END TO END WITH A MINIMUM 8-GAUGE WIRE. NO TRENCHES SHALL BE LOCATED OUTSIDE BARRICADES.
8. WHERE STRUCTURAL WALLS ARE CORED FOR NEW CONDUIT RUNS, SEPARATION BETWEEN CORED HOLES SHALL BE THREE INCHES FROM NEW HOLES, UNLESS DIRECTED OTHERWISE BY THE OAR AND ENGINEER.
9. CONTRACTOR MUST SCAN FOR REBAR AND CONSULT WITH A STRUCTURAL ENGINEER PRIOR TO CORE DRILLING. ALL FEEDER AND BRANCH CIRCUIT RACEWAYS SHALL CONTAIN A GREEN, COPPER EQUIPMENT GROUNDING CONDUCTOR SIZED PER NEC ALL UNDERGROUND CONDUITS SHALL BE ENTIRELY ENCASED IN CONCRETE 3" THICK ON ALL SIDES WITH MULTIPLE CONDUITS SPACED NOT LESS THAN 3" APART.
10. MINIMUM DEPTH OF NOT LESS THAN 24" BELOW FINISHED GRADE TO THE TOP OF CONCRETE ENVELOPE. ALL RACEWAYS INSIDE CLASSROOMS AND OFFICES SHALL BE CONCEALED.
11. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND EQUIPMENT AND MATERIAL APPROVED FOR USE UNDER THIS PRIOR TO PULLING ANY CONDUCTORS, CLEAN AND MANDREL ALL CONDUITS.
12. CONTRACTOR SHALL INSTALL EQUIPMENT PER ADA (AMERICAN DISABILITIES ACT) REQUIREMENTS. SUPPLIERS OF FIRE ALARM SYSTEM SHALL PREPARE CONSTRUCTION DRAWINGS SHOWING ALL NECESSARY WIRES AND CABLES, PER THE APPROPRIATE SPEC.
13. SECTION AND VERIFY SIZE OF ALL CONDUITS PRIOR TO ENCASING CONDUITS IN CONCRETE. DRAWINGS DO NOT SHOW ALL THE NECESSARY PULLBOXES.
14. PROVIDE ALL PULLBOXES TO COMPLY WITH CODES AND STANDARDS AND TO TERMINATE CONDUITS AND RACEWAYS PER MANUFACTURER'S RECOMMENDATIONS THROUGHOUT SITE. EXTERIOR EQUIPMENT, JUNCTION BOXES, ENCLOSURES AND CONNECTIONS SHALL BE WEATHERPROOF TYPE SUITABLE FOR EXTERIOR INSTALLATION.
15. COORDINATION: IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE CONSTRUCTION DOCUMENTS, THE FEATURES SHALL BE OF THE SAME CHARACTER AS SIMILAR CONDITIONS THAT ARE SHOWN.
16. BEFORE STARTING ANY UNDERGROUND WORK, THE CONTRACTOR SHALL CONTACT ALL UTILITY (OFF SCHOOL PROPERTY LINE) COMPANIES IN ORDER TO LOCATE EXISTING UNDERGROUND LINES. IN THE EVENT THAT DURING THE UNDERGROUND WORK THE CONTRACTOR DAMAGES ANY EXISTING LINES, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO DO ALL NECESSARY REPAIR WORK AT THEIR OWN EXPENSE.
17. ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDUITS SHALL BE CHECKED AND VERIFIED ON THE SITE BY GENERAL CONTRACTOR, AND EACH SUB-CONTRACTOR BEFORE THE WORK BEGINS. ERRORS, OMISSIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE OAR'S ATTENTION BEFORE CONSTRUCTION BEGINS.
18. THE ENGINEER HAS PREPARED THESE DOCUMENTS ONLY FOR IMPROVEMENTS SPECIFIED, DETAILED OR SHOWN AS NEW WORK, AND ASSUMES NO RESPONSIBILITY FOR OTHER CONSTRUCTION, MATERIAL OR EQUIPMENT NOTED AS "PROVIDED BY OTHERS".
19. CONTRACTOR SHALL ELECTRONICALLY SCAN THE UNDERGROUND CORRIDOR WHERE THE NEW TRENCHING SHALL OCCUR. EXISTING UNDERGROUND UTILITIES SHALL BE LOCATED BOTH ON THE HORIZONTAL AND VERTICAL PLANES USING ELECTRONIC OR RADIO DETECTION DEVICES. SYSTEMS THAT ARE NON-METALLIC SHALL HAVE A METALLIC TRACER WIRE INSERTED INTO THE CONDUIT TO FACILITATE TRACING OF ALIGNMENT.
20. ALL ELECTRICAL CONDUCTORS SHALL BE COPPER AND RATED FOR 600 VOLTS AT 90°C, WITH INSULATION TYPE THHN, THWN-2 OR XHHW. ALL CONDUCTORS #10 AND LARGER SHALL BE STRANDED, #12 AND SMALLER MAY BE EITHER STRANDED OR SOLID. PROVIDE APPROVED TERMINATIONS FOR ALL CONDUCTORS.
21. ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED FLOOR SLABS, SHAFTS AND WALLS SHALL BE SEALED AGAINST THE SPREAD OF FIRE OR SMOKE WITH APPROVED CABLE & CONDUIT FIRE STOPS OR FIRE RESISTANT SEALANT TO GIVE THE EQUIVALENT FIRE RATING BEFORE AND AFTER THE PENETRATION.
22. PROVIDE NYLON PULL CORD OR STRINGS IN ALL EMPTY CONDUITS. ADD IDENTIFIER TAG ON PULL STRINGS FOR THE DESTINATION LOCATION. ALL JUNCTION BOX COVER PLATES FOR BRANCH CIRCUIT SYSTEM SHALL BE CLEARLY MARKED WITH PERMANENT INK FELT PEN IDENTIFYING THE BRANCH CIRCUIT (BOTH PANEL NUMBER AND CIRCUIT NUMBER) CONTAINED IN THE BOX.
23. ALL EQUIPMENT ANCHORAGE SHALL BE DETAILED ON DRAWINGS. DESIGN SHALL CONFORM TO 2019 CBC SECTION 1623A AND TABLE 16 A-O. THE CONTRACTOR SHALL MAINTAIN THE UNIFORMITY AND CONTINUITY OF THE GROUNDING SYSTEM IN ALL CONDUITS/RACEWAYS.
24. TEST THE ENTIRE SYSTEM TO DEMONSTRATE TO THE ENGINEER OF RECORD THAT THE ELECTRICAL COMPONENTS AND SPECIAL SYSTEMS ARE COMPLETE AND FUNCTION PROPERLY. MAKE NECESSARY CORRECTIONS AND LEAVE SYSTEMS READY FOR OPERATION. EXPOSED CONDUITS SHALL BE INSTALLED ALONG MECHANICAL PIPES.
25. INSIDE BUILDING THE EXPOSED CONDUITS UP TO 7'-0" SHALL BE RIGID STEEL AND ABOVE 7'-0" MAY BE EMT. ALL EXPOSED EXTERIOR CONDUITS SHALL BE GALVANIZED RIGID CONDUIT. THREADLESS CONNECTORS & COUPLINGS SHALL NOT BE USED. ALL EXPOSED CONDUITS, RACEWAYS, AND BOXES SHALL BE PAINTED TO MATCH THE SURFACE WHERE INSTALLED. DO NOT PAINT THE WIREMOLD.
26. DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND THE SIZE AND LOCATION OF EQUIPMENT IS INDICATED TO SCALE WHENEVER POSSIBLE. CONTRACTOR IS REQUIRED TO VERIFY CONDITIONS, DIMENSION INDICATED EQUIPMENT SIZES, MANUFACTURER'S DATA AND INFORMATION AS NECESSARY TO INSTALL THE WORK.
27. COORDINATE LOCATION AND LAYOUT WITH OTHER WORK. CONTRACTOR SHALL PROVIDE TO THE ENGINEER A 1/4"=1'-0" SCALED DRAWING OF ELECTRICAL EQUIPMENT ROOMS SHOWING LOCATION AND CLEARANCES OF SUBMITTED EQUIPMENT FOR REVIEW AND APPROVAL PRIOR TO ORDERING OF ELECTRICAL EQUIPMENT.

STANDARD ABBREVIATIONS

A OR AMP	AMPERES
A/C	ASPHALT CONCRETE
AFF.	ABOVE FINISH FLOOR
BKR.	BREAKER
BC	BARE COPPER
C	CONDUIT
CKT.	CIRCUIT
C.O.	CONDUIT ONLY
D	DEPTH
E	EXISTING
F.A.	FIRE ALARM
FLA	FULL LOAD AMPERES
FO	FIBER OPTIC, 4 STRAND
FO/D	FIBER OPTIC/CAT-5E
GRND.	GROUND
G.F.I.	GROUND FAULT INTERRUPTER
H.P.	HORSEPOWER
IDF	INTERMEDIATE DISTRIBUTION FRAME
Isc	AVAILABLE SHORT CIRCUIT CURRENT
SEC.	SECURITY SYSTEM
CLK.	CLOCK SYSTEM
J-BOX	JUNCTION BOX
KW	KILOWATTS
LDF	LOCAL DISTRIBUTION FRAME
MDF	MAIN DISTRIBUTION FRAME
N.I.C.	NOT IN CONTRACT
PA	PUBLIC ADDRESS
PB	PULL BOX
PABX	PHONE BOARD EXCHANGE
PH or Ø	PHASE
R	REMOVE
SLC	SIGNALING LINE CIRCUIT
SW.	SWITCH
TYP.	TYPICAL
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
UG	UNDERGROUND
U.O.N.	UNLESS OTHERWISE NOTED
VL or V.L.	VERIFY LOCATION PRIOR TO ROUGH-IN
W.P.	WEATHERPROOF
WP	WEST PENN
XFMR	TRANSFORMER

CODES AND STANDARDS

PARTIAL LIST OF APPLICABLE CODES

2025 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 C.C.R.
2025 CALIFORNIA BUILDING CODE (CBC), TITLE 24 C.C.R
(2024 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL WITH CALIFORNIA AMENDMENTS)
2025 CALIFORNIA ELECTRICAL CODE (CEC), TITLE 24 C.C.R.
(2026 NATIONAL ELECTRIC CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA)
2025 CALIFORNIA MECHANICAL CODE (CMC), TITLE 24 C.C.R.
(2024 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS IAPMO).
2025 CALIFORNIA PLUMBING CODE (CPC), TITLE 24 C.C.R.
(2024 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS IAPMO).
2025 CALIFORNIA ENERGY CODE (CEC), TITLE 24 C.C.R.
2025 CALIFORNIA FIRE CODE (CFC), TITLE 24.
(2024 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL).
2025 CALIFORNIA EXISTING BUILDING CODE, TITLE 24 C.C.R.
(2024 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL WITH CALIFORNIA AMENDMENTS).
2025 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN CODE), TITLE C.C.R.
2025 CALIFORNIA REFERENCED STANDARDS, TITLE 24 C.C.R.

TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
2013 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATOR AND ESCALATORS.

LOW VOLTAGE GENERAL NOTES

1. ELECTRICAL CONTRACTOR SHALL REVIEW ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR ALL LOW VOLTAGE SYSTEM CONDUIT AND CABLE TRAY INFRASTRUCTURE AS REQUIRED FOR USE OF ROUTING LOW VOLTAGE CONDUCTORS BY LOW VOLTAGE CONTRACTOR.
2. TELE/DATA CONDUITS AND POWER CONDUITS IF RUN PARALLEL, SHALL HAVE NO LESS THAN 12" SEPARATION BETWEEN CONDUITS. ALL EXPOSED CONDUIT SHALL BE EMT AND SHALL BE RUN AS HIGH AS POSSIBLE, GROUPED AND SPACED EVENLY WITH TYPICAL HANGERS.
3. REFER TO SECURITY SYSTEM CONSULTANT'S DRAWINGS PRIOR TO ROUGH-IN, FOR EXACT LOCATIONS AND SECURITY DEVICES REQUIREMENTS. ELECTRICAL CONTRACTOR SHALL PROVIDE BACKBOX, MUD RINGS, ELECTRIC STRIKES, AND CONDUITS AS REQUIRED FOR COMPLETE INSTALLATION.
4. REFER TO A/V SYSTEM CONSULTANT'S DRAWINGS FOR A/V DEVICE PRIOR TO ROUGH-IN, (BACKBOX, MUD RING AND CONDUIT) AND EQUIPMENT LOCATIONS AND FOR OTHER A/V SYSTEM REQUIREMENTS AND PROVIDE AS REQUIRED FOR A COMPLETE INSTALLATION. PROVIDE EQUIPMENT GROUND CONDUCTOR TO RECEPTACLES THAT ARE UTILIZED TO SERVE A/V SYSTEM EQUIPMENT.
5. CONTRACTOR SHALL PROVIDE PULL CORDS IN ALL LOW VOLTAGE CONDUITS. WHERE MORE THAN ONE CONDUIT TERMINATES IN A JUNCTION BOX, THE ELECTRICAL CONTRACTOR SHALL IDENTIFY EACH JUNCTION BOX AND CONDUIT IN A MANNER ALLOWING IDENTIFICATION JUNCTION BOXES AND CONDUITS AFTER ALL WALL FINISHES HAVE BEEN APPLIED.

DEMOLITION GENERAL NOTES

1. CONTRACTOR TO REVIEW ARCHITECTURAL AND ELECTRICAL PLANS FOR ALL EXISTING EQUIPMENT TO BE REMOVED. ELECTRICAL EQUIPMENT, WHETHER SHOWN ON THESE DRAWINGS OR NOT, THAT ARE LOCATED IN REMOVED WALLS, FLOORS, OR CEILING, SHALL BE REMOVED UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL VISIT THE SITE, INCLUDING ALL AREAS INDICATED ON THE DRAWINGS, SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND, BY SUBMITTING A BID, SHALL ACCEPT CONDITIONS UNDER WHICH HE WILL BE REQUIRED TO PERFORM HIS WORK.
3. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO DISCONNECT AND REMOVE ALL EXISTING LIGHTING FIXTURES, RECEPTACLES, ELECTRICAL EQUIPMENT, ETC., AFFECTED BY THE RENOVATION. THIS WILL INCLUDE REROUTING OR EXTENDING OF EXISTING CONDUIT AND FEEDERS WHERE NECESSARY TO MAINTAIN THE CONTINUITY OF THE EXISTING EQUIPMENT TO REMAIN.
4. EXISTING CIRCUIT NUMBERS AND HOMERUNS SHOWN ON THESE DRAWINGS WERE TAKEN FROM EXISTING RECORD DRAWINGS. IT IS THIS CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF HOMERUNS, AND TO ADJUST CIRCUIT NUMBERS ACCORDING TO EXISTING CONDITIONS AS REQUIRED.
5. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO MAINTAIN CONTINUITY OF ALL ELECTRICAL SYSTEMS, EQUIPMENT, ETC., REMAINING IN OPERATION WHICH ARE BEING FED BY AN ABANDONED OUTLET. MAINTAINING CONTINUITY SHALL CONSISTS OF REROUTING CONDUIT, WIRING, ETC., AS REQUIRED.
6. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO REMOVAL OF EXISTING ELECTRICAL EQUIPMENT, AND TURN OVER REMOVED EQUIPMENT THAT THE OWNER REQUESTS IN AN " AS-FOUND" CONDITION. EQUIPMENT THAT IS TO BE TURNED OVER SHALL BE BOXED AND TAGGED TO IDENTIFY THE SPECIFIC EQUIPMENT.
7. WHERE NEW CIRCUITS ARE SHOWN TO EXISTING PANELS, INSTALL NEW BREAKERS (MINIMUM 20 AMP, SINGLE POLE) AS CALLED FOR ON DRAWINGS.
8. EXISTING CONDUIT MAY BE REUSED IF ADEQUATELY SIZED, BUT IN NO CASE SHALL ANY EXISTING CONDUCTORS BE REUSED.
9. DURING EACH PHASE OF DEMOLITION, ALL CIRCUITS FROM EXISTING PANELS WHICH FEED AREAS OUTSIDE THE BOUNDARIES OF THAT PHASE, SHALL BE MAINTAINED.
10. ALL ABANDONED OUTLETS INCLUDING LIGHT, RECEPTACLES, DATA/TEL, ETC., SHALL BE COVERED AND PATCHED TO MATCH THE FINISH OF SURROUNDING WALL OR CEILING TO THE SATISFACTION OF THE OWNER.
11. CONTRACTOR SHALL PROTECT ALL EXISTING SYSTEMS WHICH ARE TO REMAIN, INCLUDING BUT NOT LIMITED TO: DATA/TEL, FIRE ALARM, SECURITY, CLOCK, BELL, POWER AND LIGHTING. ALL OUTLETS, HARDWARE, CONDUIT AND CONDUCTORS ARE TO BE SECURED FROM DAMAGE. CONTRACTOR SHALL TEST ALL OUTLETS, HARDWARE, CONDUIT AND CONDUCTORS PRIOR TO COMMENCEMENT OF WORK, AND PROVIDE A WRITTEN REPORT TO OWNER/ARCHITECT, INDICATING ANY FAILURES OR DAMAGE.

SCOPE OF WORK

ELECTRICAL AND LOW-VOLTAGE INFRASTRUCTURE FOR THE INTERIM HOUSING PROJECT AT ARROYO HIGH SCHOOL. THE SCOPE INVOLVES PROVIDING POWER AND LOW-VOLTAGE INFRASTRUCTURE FOR (4) NEW PORTABLES AND RE-PURPOSING EXISTING OFFICE SPACE.

ELECTRICAL SHEET INDEX

SHEET NUMBER	SHEET NAME
E0.10	ELECTRICAL FRONT SHEET
E0.11	ELECTRICAL LEGEND AND ABBREVIATIONS
E0.12	ELECTRICAL SINGLE LINE DIAGRAM AND LOAD CALCULATION
E1.21	ELECTRICAL SITE PLAN
E2.21	ELECTRICAL ENLARGED POWER PLAN - BUILDING G1
E2.22	ELECTRICAL ENLARGED POWER PLAN - BUILDING B
E2.31	ELECTRICAL ENLARGED POWER PLAN - PORTABLES
E3.21	ELECTRICAL ENLARGED LIGHTING PLAN - BUILDING G1
ELV2.21	LOW VOLTAGE ENLARGED PLAN - BUILDING G1
ELV2.22	LOW VOLTAGE ENLARGED PLAN - BUILDING B
ELV2.31	LOW VOLTAGE ENLARGED PLAN - PORTABLES
E10.01	ELECTRICAL DETAILS

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CONSULTANT:

Budlong
An MBE|SBE|DBE|LSBE Firm
Glendale|Downtown LA|Fremont|Camarillo
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Job No. 24-335

FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - INTERIM HOUSING

SHEET NAME:

ELECTRICAL FRONT SHEET

100% DESIGN DEVELOPMENT

DATE: **04/13/26**

CLIENT PROJ NO: **3361-008-101**

SHEET:

E0.10

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CONDUIT/CONDUCTOR TYPE

NOTE: ALL LOW VOLTAGE CABLE TO BE PLENUM RATED.

CONDUCTOR/CABLE TYPES

D — DATA SYSTEM CONDUIT RUN 3/4"C, (1) 4-PAIR UTP CAT- 6 CABLE U.O.N.

V — VOICE SYSTEM CONDUIT RUN 3/4"C, (1) 4-PAIR UTP CAT- 6 CABLE U.O.N.

5D — INDICATES DATA SYSTEM CONDUIT RUN WITH (5) 4-PAIR UTP CAT- 6 CABLES U.O.N.

D,T — 3/4"C. RACEWAY WITH ONE CAT-6 DATA CABLE AND ONE CAT-6 TELEPHONE CABLE.

2D,2T — 3/4"C. RACEWAY WITH (2)CAT-6 DATA CABLES AND (2) CAT-6 TELEPHONE CABLES.

CONDUIT FILL	
CONDUIT SIZE	MAX # OF cat-6
3/4"	5
1"	9
1 1/4"	18
1 1/2"	22
2"	35
2 1/2"	55
3"	88

CONDUIT: EXPOSED IN UNFINISHED AREA; CONCEALED ABOVE CEILING OR IN WALL IN FINISHED AREAS. 3/4"C, U.O.N. NO HASH MARKS, 2#12 AND 1#12 GREEN GROUND WIRES.

A-1,3,5 — HOMERUN TO PANEL "A" CIRCUITS 1,3,5, CROSS LINES INDICATE NUMBER OF #10 IN ADDITION TO 1#10 GREEN GROUND. 3/4"C, U.O.N.

CONDUIT; IN OR BELOW FLOOR OR BELOW GRADE.

RIGID THREADED CONDUIT WITH SEAL-OFF (CLASS I, DIV.2 CONDITION)

CONDUIT SYSTEM RISER UP.

CONDUIT SYSTEM RISER DOWN.

3/4"C, 2 #12 & 1 # 12 GROUND U.O.N.

3/4"C, 3 #12 & 1 #12 GROUND.

3/4"C, 4 #12 & 1 #12 GROUND.

3/4"C, 5 #12 & 1 #12 GROUND.

3/4"C, 6 #12 & 1 #12 GROUND.

3/4"C, 7 #12 & 1 #12 GROUND

1"C, 8 #12 & 1 #12 GROUND.

FEEDER SIZES FOR THE STARLINE BUS SYSTEM SHALL BE AS FOLLOWS (U.O.N.):

400A 3P — 4"C, 4#600KCM, 1#2G.

250A 3P — 2 1/2"C, 4#250KCM, 1#4G.

100A 3P — 1 1/2"C, 4#1, 1#8G.

60A 3P (XXX) — 1"C, 4#6, 1#8G.

XXX — HATCHING ON BUS INDICATES CONNECTION TO THE UPS SYSTEM BUS DESIGNATOR

3P-30A — BUS SHOWING MODULE AND RESPECTIVE CIRCUIT BREAKER(S)

ELECTRICAL SYMBOLS

LIGHTING SYSTEM

A / 100 — INDICATES FIXTURE TYPE A, 100 WATTS. SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE DESCRIPTION.

HATCHED PORTION OF LIGHT FIXTURE INDICATES CONNECTION TO THE EMERGENCY POWER SYSTEM.

OS — OCCUPANCY SENSOR FOR LIGHTING CONTROL, CEILING MOUNTED, DUAL TECHNOLOGY ULTRASONIC - PASSIVE INFRARED PER SPECIFICATIONS. PROVIDE POWER PACKS AS REQUIRED FOR A COMPLETE, APPROVED, OPERATING SYSTEM.

OS — OCCUPANCY SENSOR FOR LIGHTING CONTROL, CORNER MOUNTED, DUAL TECHNOLOGY ULTRASONIC - PASSIVE INFRARED PER SPECIFICATIONS. PROVIDE POWER PACKS AS REQUIRED FOR A COMPLETE, APPROVED, OPERATING SYSTEM.

OCCUPANCY SENSOR FOR LIGHTING CONTROL, WALL MOUNTED, DUAL TECHNOLOGY ULTRASONIC - PASSIVE INFRARED PER SPECIFICATIONS. PROVIDE DUAL SWITCHING CAPACITY PER TITLE 24 WHERE REQUIRED.

$S_{D_{XX}}$ — SINGLE POLE DIMMER SWITCH. SUBSCRIPTS "a" & "b" INDICATE SWITCH LEGS CONTROLLED AND GANGED ASSEMBLY WITH A SWITCH FOR EACH SUBSCRIPT. PROVIDE BARRIER FOR SEPARATION OF EMERGENCY POWER WHERE REQUIRED, +48" TO TOP OF BOX, U.O.N.

S_M — MANUAL HP RATED SWITCH, WEATHER PROOF ENCLOSURE AS REQUIRED, INCLUDE REQUIRED NUMBER OF POLES AND MOTOR OVERLOAD RELAYS. PROVIDE GFI PROTECTED FOR LABORATORIES AND WET AREAS.

70A 3P EB — DISCONNECT SWITCH WITH CONNECTION TO EQUIPMENT SERVED, RATING AND NUMBER OF POLES AS SHOWN ON PLANS.

PUSH BUTTON SWITCH.

EXIT SIGN SHALL BE FURNISHED WHERE SHOWN.

PS — CEILING MOUNTED DAYLIGHT PHOTO SENSOR.

OS PS — CEILING MOUNTED OCCUPANY+DAYLIGHT PHOTO SENSOR COMBO, USE COMPATIBLE SWITCH PADS FOR DIMMING & POWER PACK FOR PLUG LOAD CONTROL.

LS — LIGHTING CONTROLLER/POWER PACK WITH RELAYS AS INDICATED ON PLAN.

RC — LIGHTING ROOM CONTROLLER

LCP — LIGHTING CONTROL PANEL

POWER SYSTEM

J — JUNCTION BOX; SURFACE MOUNTED OR INSIDE WALL.

J — CLASS 1, DIV.2 EXPLOSION PROOF JUNCTION BOX: SURFACE MOUNTED.

SINGLE POWER RECEPTACLE, 125V, 20 AMP, U.O.N.

DUPLEX RECEPTACLE; 125V, 20 AMP, NEMA 5-20R. CEILING MOUNTED.

DUPLEX RECEPTACLE ON UPS; 125V, 20 AMP, NEMA 5-20R. CEILING MOUNTED.

DUPLEX RECEPTACLE; 125V, 20 AMP, NEMA 5-20R. +18" U.O.N.

DUPLEX RECEPTACLE ON UPS; 125V, 20 AMP, NEMA 5-20R. +18" U.O.N.

DUPLEX RECEPTACLE WITH USB; 125V, 20 AMP, NEMA 5-20R. +18" U.O.N.

RECEPTACLE; 208V, 30 AMP, NEMA 6-30R. +18" U.O.N.

SWITCH CONTROLLED SPLIT LOAD DUPLEX RECEPTACLE; 125V., 20 AMP, NEMA 5-20R. +18" U.O.N.

G.F.I. DUPLEX RECEPTACLE, 125V, 20 AMP, NEMA 5-20R, +18" U.O.N. PROVIDE WP "WHILE IN USE" COVER IN EXTERIOR LOCATIONS.

QUAD RECEPTACLE; 125V, 20 AMP, NEMA 5-20R. +18" U.O.N.

QUAD G.F.I. RECEPTACLE; 125V, 20 AMP, NEMA 5-20R, +18" U.O.N. PROVIDE WP "WHILE IN USE" COVER IN EXTERIOR LOCATIONS.

SWITCH CONTROLLED SPLIT LOAD QUAD RECEPTACLE; 125V, 20 AMP, NEMA 5-20R. +18" U.O.N.

FLOOR DUPLEX RECEPTACLE, 125V, 20 AMP, NEMA 5-20R FLOOR

QUADPLEX RECEPTACLE, 125V, 20 AMP, NEMA 5-20R FLUSH IN FLOOR MOUNTED

COMBINATION DUPLEX RECEPTACLE/DATA OUTLET, 125V, 20 AMP, & CORRESPONDING DATA PLUGS.

20 — TWIST-LOCK RECEPTACLE, 125/250V, 20 AMP, NEMA L14-20R WITH MATCHING PLUG & 20 AMP CORD DROP, MAKE-UP CONNECTION TO EQUIPMENT SHOWN.

30 — TWIST-LOCK RECEPTACLE, 125/250V, 30 AMP, NEMA L14-30R WITH MATCHING PLUG & 30 AMP CORD DROP, MAKE-UP CONNECTION TO EQUIPMENT SHOWN.

400A 3P — STARLINE BUS SYSTEM SHOWING ENTRY BOX SIZE AND EQUIVALENT BUS.

WIRE MOLD RACEWAY, MODEL 2000, DUAL CHAMBER WITH QUANTITY OF RECEPTACLES AND DATA OUTLETS AS INDICATED. MOUNTING HEIGHT OF WIRE MOLD AS SPECIFIED ON PLANS. PROVIDE ALL WIRE MOLD FITTINGS, ELBOWS, BOXES, ETC. TO MAKE A COMPLETE SYSTEM.

1 — NOTE REFERENCE TAG.

1 / E001 — DETAIL REFERENCE TAG.

CABLE TRAY, 4" x 18" TOTAL (THREE SECTION WIRE BASKET).

R R — RELAY WITH ENCLOSURE AS REQUIRED.

PB — ELECTRICAL UNDERGROUND PULL BOX.

F — 250V HEAVY DUTY DISCONNECT SWITCH. H.P. RATED, PER EQUIPMENT MANUFACTURER, 3P U.O.N. "F" INDICATES FUSED, PROVIDE FUSE SIZE BASED ON NAMEPLATE RATING OF EQUIPMENT.

F — 480V, HEAVY DUTY DISCONNECT SWITCH. H.P. RATED, PER EQUIPMENT MANUFACTURER, 3P U.O.N. "F" INDICATES FUSED, PROVIDE FUSE SIZE BASED ON NAMEPLATE RATING OF EQUIPMENT.

VFD — 480V VFD (SUPPLIED BY MECHANICAL CONTRACTOR), WITH INTEGRAL DISCONNECTING MEANS. H.P. RATED, PER EQUIPMENT MANUFACTURER, 3P U.O.N.

F — COMBINATION FUSED MOTOR DISCONNECT SWITCH AND MAGNETIC MOTOR STARTER SIZED ACCORDING TO MOTOR MANUFACTURER RECOMMENDATIONS, HOA, STARTER SIZE 1 MIN., SOLID STATE ADJUSTABLE OVER LOAD PROTECTION, MOUNTED ON INDEPENDENT SUPPORT.

F — HEAVY DUTY DISCONNECT SWITCH. H.P. RATED, AS PR ABOVE WITH INTEGRAL 15A GFI, 120V RECEPTACLE, SIMILAR TO EATON AUXILIARY POWER HEAVY DUTY FUSED SWITCH.

SURFACE MOUNTED PANELBOARD.

FLUSH MOUNTED PANELBOARD.

DISTRIBUTION PANELBOARD.

MAIN SWITCHBOARD.

75 — TRANSFORMER (75 KVA).

THERMOSTAT +48" U.O.N. 4S DEEP BACKBOX WITH 1-GANG PLASTER RING, (VERIFY ORIENTATION OF PLASTER RING WITH MECHANICAL CONTRACTOR). THERMOSTAT PROVIDED BY MECHANICAL, CONNECTED BY MECHANICAL.

COMPUTER NETWORK SYSTEM

MDF — MAIN DISTRIBUTION FRAME.

IDF — INTERMEDIATE DISTRIBUTION FRAME.

ONE TELEPHONE OUTLET RG-45/ONE CAT-6 CABLE (PLENUM RATED) FROM EACH DATA DROP TO IDF OR MDF. PROVIDE 3/4"C TO CABLE TRAY. U.O.N.

CEILING MOUNTED TELEPHONE OUTLET RG-45/CAT-6 CABLE (PLENUM RATED) FROM EACH DATA DROP TO IDF OR MDF. PROVIDE 3/4"C TO CABLE TRAY U.O.N.

DATA DROP WITH (1) CAT-6/(1) CAT-6 CABLE (PLENUM RATED) FROM EACH DATA DROP TO IDF OR MDF.PROVIDE 3/4"C TO CABLE TRAY U.O.N.

ONE DATA OUTLET AND ONE TELEPHONE OUTLET (RG-45 OUTLETS). PROVIDE UNSPLICED (3) CAT-6 CABLE (PLENUM RATED) FROM EACH DATA/TELEPHONE OUTLET TO IDF OR MDF. PROVIDE 3/4"C TO CABLE TRAY U.O.N.

TWO DATA OUTLETS AND ONE TELEPHONE OUTLET (RG-45 OUTLETS). PROVIDE UNSPLICED (3) CAT-6 CABLE (PLENUM RATED) FROM EACH DATA/TELEPHONE OUTLET TO IDF OR MDF.

FLUSH IN-FLOOR BOX WITH TWO DATA OUTLETS AND ONE TELEPHONE OUTLET (RG-45 OUTLETS). PROVIDE UNSPLICED (3) CAT-6 CABLE (PLENUM RATED) FROM EACH DATA / TELEPHONE OUTLET TO IDF OR MDF. PROVIDE 1"C TO CABLE TRAY. U.O.N

WIREMOLD 4000 SUSPENDED FROM STRUCTURE ABOVE AND PROVIDED WITH DATA/COMM OUTLETS AND PLENUM RATED CABLING AS SHOWN.

FLUSH 4SD PULL BOX MOUNTED AT 64"AFF FOR VIDEO CABLES (TO FLOOR BOX, SEE BELOW).

FLUSH MOUNTED FLOOR BOX FOR VIDEO CABLES TO WALL OR CEILING BOX.

SURFACE MOUNTED CEILING BOX FOR VIDEO CABLES TO WALL OR FLOOR BOX.

WALL MOUNTED EXTERIOR WAP DEVICE WITH INTEGRATED ANTENNA WITH OEHS CLEARANCE ONLY.

ACCESS CONTROL DOOR SYSTEM

CR — ACCESS CONTROL BACK BOX FOR CARD READER DEVICE, CABLING AND TERMINATION BY LOW VOLTAGE CONTRACTOR.

P — DOOR PROP ALARM. DEVICE, CABLING AND TERMINATION BY LOW VOLTAGE CONTRACTOR

COMMITTED TO COLLEGE AND CAREER — CALIFORNIA DISTINCTIVE HIGH SCHOOL — ESTABLISHED 1901

DESIGN FOR GOOD

HMC Architects
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Δ	DESCRIPTION	DATE
	100% DESIGN DEVELOPMENT	04.13.2026

CONSULTANT:

Budlong
An MBE|SBE|DBE|LSBE Firm
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Job No. 24-335

FACILITY:

4921 Cedar Ave
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PROJECT:

EMUSD ARROYO HS - INTERIM HOUSING

SHEET NAME:

ELECTRICAL LEGEND AND ABBREVIATIONS

100% DESIGN DEVELOPMENT

DATE: **04/13/26** | CLIENT PROJ NO: **3361-008-101**

SHEET:

E0.11

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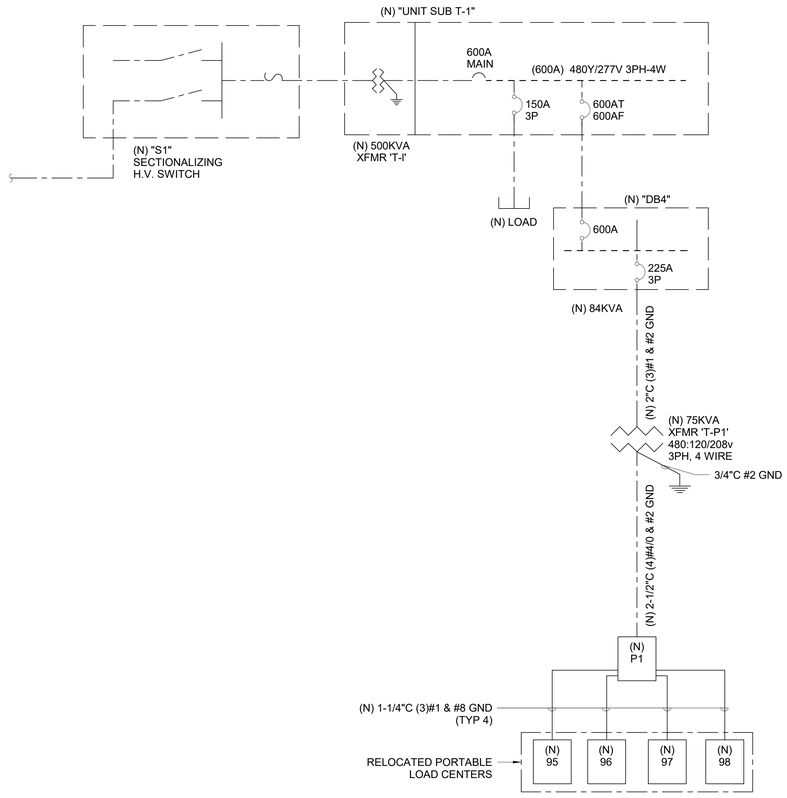

SINGLE LINE DIAGRAM | N.T.S. | 1

GENERAL NOTES

A. ALL OVERCURRENT DEVICES IN AN INDIVIDUAL PIECE OF EQUIPMENT SHALL HAVE AN AIC RATING EQUAL TO THE RATING OF EQUIPMENT. SERIES RATING OF DEVICES WITHIN A PIECE OF EQUIPMENT IS NOT ALLOWED.

B. ALL SWITCHBOARDS, DISTRIBUTION BOARDS, PANELS, TRANSFORMER AND CIRCUIT BREAKER SHALL BE OF SAME MANUFACTURER.

C. ALL CIRCUIT BREAKERS 600A AND ABOVE SHALL BE 100% SOLID STATE ELECTRONIC TRIP.

D. PROVIDE 20% SPACE IN ALL SWITCHBOARDS, DISTRIBUTION BOARDS AND DISTRIBUTION PANELS, UNLESS OTHERWISE NOTED ON PLANS.

E. CONDUCTORS FOR ALL WIRING SHALL BE OF COPPER, UNLESS OTHERWISE NOTED ON PLANS.

F. ALL BUSSING SHALL BE MADE IN COPPER. MAIN AND HORIZONTAL BUSSING SHALL BE RATED FOR FULL CAPACITY ON ALL SECTIONS. ALL BUSSING SHALL HAVE A WITHSTAND RATING EQUAL TO A MINIMUM OF 1.15% OF THE CALCULATED AVAILABLE FAULT CURRENT INDICATED, BUT IN NO CASE THE CURRENT INTERRUPTING RATING SHALL BE LESS THAN 65,000 AMPERES.

G. ALL EQUIPMENT SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND SHALL BE INSTALLED AS PER LISTING OR LABELING.

H. ALL TERMINALS SHALL BE TORQUED TO MANUFACTURER'S LISTED SPECIFICATIONS.

I. ALL RACEWAYS SHALL CONTAIN A CODE-SIZED (CEC-250), INSULATED, GREEN, COPPER EQUIPMENT GROUNDING CONDUCTOR AND SHALL BE BONDED TO THE METALLIC COMPONENTS OF THE RACEWAY SYSTEM.

J. ALL CONDUCTORS TO BE COPPER, TYPE THWN/THHN INSULATION RATED FOR 75°/90°C.

K. EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AS PER CEC 210.4(B)&(D).

L. AN ARC FLASH COORDINATION STUDY SHALL BE PERFORMED BY CONTRACTOR FOR E.O.R. REVIEW IF REQUIRED.

M. CONTRACTOR IS TO CONFIRM ADEQUATE LANDING LUGS TO TERMINATE FEEDERS PER SINGLE LINE DIAGRAM AND FEEDER SCHEDULE.

NOTE TO INSTALLING ELECTRICIAN:
THE CEC REQUIRES THE INSTALLER TO PROPERLY APPLY AND COMPLETE THIS LABEL. LABEL(S) MUST BE PLACED ON ALL EQUIPMENT WHERE SERIES RATINGS ARE UTILIZED.

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Job No. 24-335

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PROJECT:

EMUSD ARROYO HS - INTERIM HOUSING

SHEET NAME:

ELECTRICAL SINGLE LINE DIAGRAM AND LOAD CALCULATION

100% DESIGN DEVELOPMENT

DATE: **04/13/26** | CLIENT PROJ NO: **3361-008-101**

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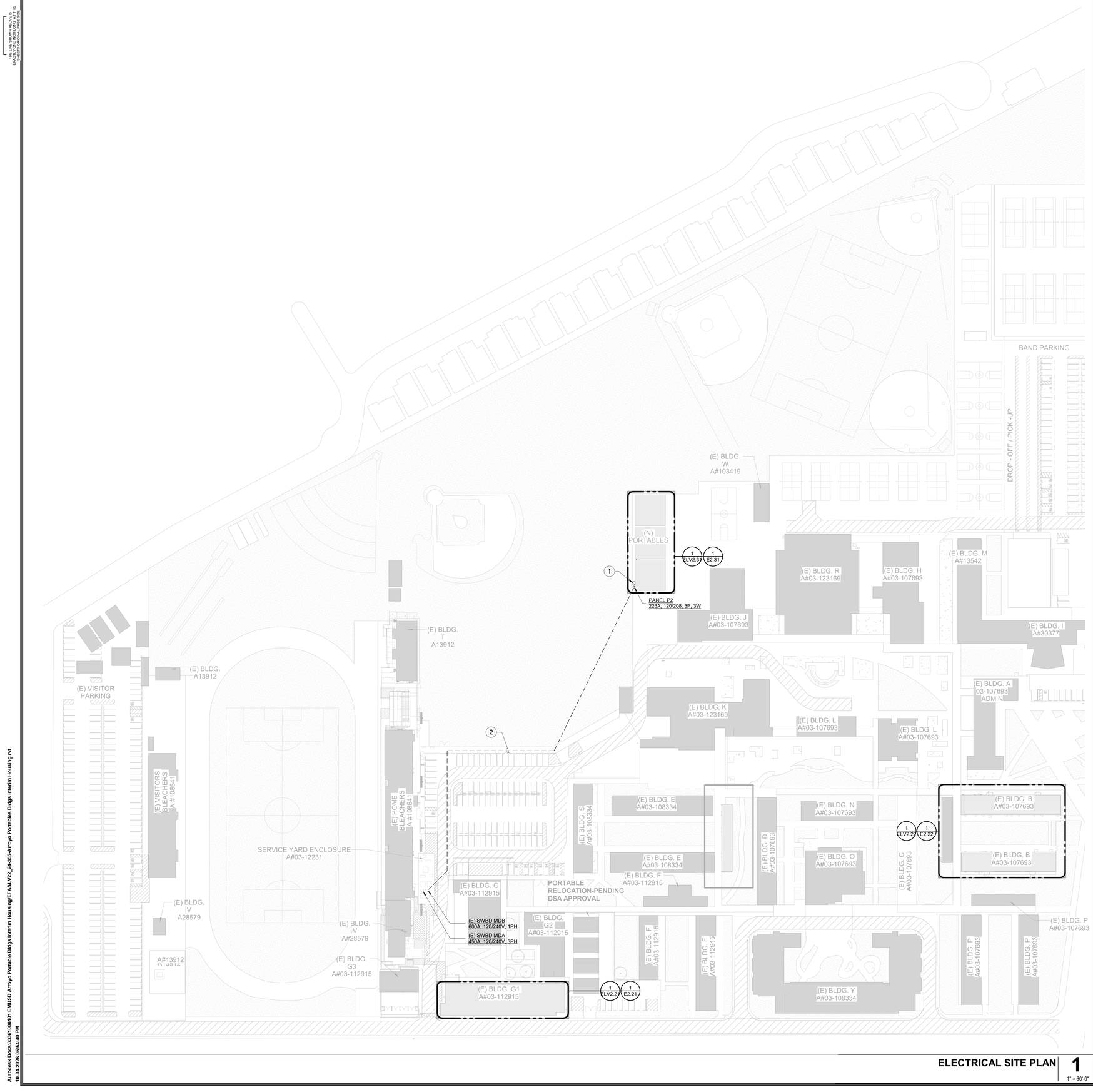

ELECTRICAL SITE PLAN 1 — 1" = 60'-0"

GENERAL NOTES

A. UNDERGROUND PULL BOX SHALL BE SIZED IN ACCORDANCE WITH CEC/NEC 314.28. USE PRECAST CONCRETE, AASHTO H-20 TYPE PULL BOX FOR DELIBERATE VEHICULAR TRAFFIC APPLICATIONS (E.G. WITHIN STREETS, HIGHWAYS AND PAVED SHOULDERS ALONG HIGHWAYS). USE PRECAST CONCRETE, LIGHT DUTY TYPE PULL BOX FOR PEDESTRIANS TRAFFIC ONLY (E.G. GRASSY AREAS IN RESIDENTIAL PROPERTIES THAT ARE LOCATED AWAY FROM VEHICULAR TRAFFIC. CONTRACTOR IS REQUIRED TO SIZE THE PULL BOXES, HANDHOLES AND ALL ELECTRICAL ENCLOSURES PER CEC 314. SIZES SHOWN ON THE PLANS ARE FOR REFERENCE ONLY, CONTRACTOR TO PROVIDE THE BIGGER OR EQUIVALENT SIZE PULL BOX. THE DEPTH OF THE PULL BOX SHALL HAVE ENOUGH SPACE TO ACCOMMODATE THE LARGEST SIZE CONDUITS AND RELATED LOCKNUTS, BUSHING AND ALL OTHER ACCESSORIES.

B. SCHEDULE 40 RIGID PVC CONDUIT SHALL BE USED FOR CONCRETE ENCASED DUCTBANK UNDER ROADWAYS, PARKING LOTS, OR OTHER AREAS SUBJECT TO VEHICULAR TRAFFIC AND ALL MEDIUM VOLTAGE WORK.

C. MAXIMUM NUMBER OF BENDS IN ONE CONDUIT RUN BETWEEN MANHOLES SHALL BE NO MORE THAN 270 DEGREES.

D. THE ENCLOSURES OF ALL SWITCHGEAR, TRANSFORMERS, UNIT SUBSTATIONS, MOTOR CONTROLS AND PANELBOARDS SHALL BE GROUNDED BY A SEPARATE GROUNDING CONDUCTOR TO THE GROUND SYSTEM.

E. THE RESISTANCE OF THE COMPLETED GROUND SYSTEM FOR STANDARD INSTALLATIONS SHALL NOT EXCEED 5 OHMS. IF ANY SPECIAL EQUIPMENT BEING INSTALLED REQUIRES A LOWER GROUND SYSTEM RESISTANCE, THAT EQUIPMENT MANUFACTURER'S MAXIMUM GROUND RESISTANCE SHALL APPLY.

F. FOR SOLIDLY GROUNDED ALTERNATE SOURCE OF EMERGENCY POWER SYSTEMS (GENERATOR) HAVING LINE TO LINE-TO GROUND VOLTAGE LARGER THAN 150V (FOR EXAMPLE 480V/277Y) AND RATED 1000A OR MORE, NO GROUND FAULT PROTECTION WITH AUTOMATIC DISCONNECTING MEANS IS REQUIRED; ONLY GROUND-FAULT INDICATION (ALARMS) SHALL BE PROVIDED IN ACCORDANCE WITH NEC/CEC, ARTICLE 700.31 AND 700.69D).

G. PROVIDE STATIONARY DIESEL-FUELED POWER SUPPLY (EPS) WITH ATS, LOAD TESTING MEANS, AND ASSOCIATED ACCESSORIES IN COMPLIANCE WITH NFPA 110, LEVEL 1, EMERGENCY POWER SUPPLY SYSTEM (EPS) REQUIREMENTS.

H. PROVIDE AN NFPA 110 COMPLIANT CONTROL PANEL MOUNTED ON THE EMERGENCY POWER SYSTEMS (EPS). NO MORE THAN 78 INCHES ABOVE THE FINISHED FLOOR TO THE TOP OF THE PANEL, INCLUDING THE CONCRETE HOUSEKEEPING PAD AND VIBRATION ISOLATORS.

I. CONDUIT ROUTING IS DIAGRAMMATICALLY SHOWN ONLY. CONDUIT SHALL BE INSTALLED AS REQUIRED TO AVOID INTERFERENCE WITH EXISTING UTILITIES AND STRUCTURES. COORDINATE EXACT LOCATIONS OF ANY SITE WORK WITH CIVIL DRAWINGS.

J. ALL JUNCTION BOXES, PULL BOXES, ETC. ARE NOT SHOWN ON THIS DRAWING, BUT SHALL BE PROVIDED WHERE NECESSARY IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE NEC/CEC.

K. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION RELATED TO CIVIL WORKS.

L. PROVIDE POST BARRIERS TO ELECTRICAL EQUIPMENT TO PROVIDE PHYSICAL PROTECTION.

M. EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING OF CONDUITS, ETC., AND TO PREVENT HAZARD TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN AND INSTALLED BY ANY OTHER CONTRACTS. THE ENGINEER IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED.

N. LABEL ALL WIRING CIRCUIT NUMBERS INSIDE ENCLOSURES OR HANDHOLES. PROVIDE CIRCUIT I.D. TAGS INSIDE HANDHOLES RATED FOR WET LOCATIONS.

O. EXISTING CONDITIONS SHOWN ARE BASED ON AS-BUILT DRAWINGS & SITE-SURVEY. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS SHOWN PRIOR TO INSTALLATION OF ANY WORK.

CONSTRUCTION KEYNOTES

1 PROVIDE NEW 225A, 120/208, 3PH, 3W, PANEL 'P2'. REFER TO SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.

2 PROVIDE NEW 3" UNDERGROUND CONDUIT WITH (4) #4/0 &#2 GROUND. REFER TO THE SINGLE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.

DIGALERT

Underground Service Alert of Southern California

811 or 800-422-4133

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SHEET NAME:

ELECTRICAL SITE PLAN

100% DESIGN DEVELOPMENT

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SHEET:

E1.21

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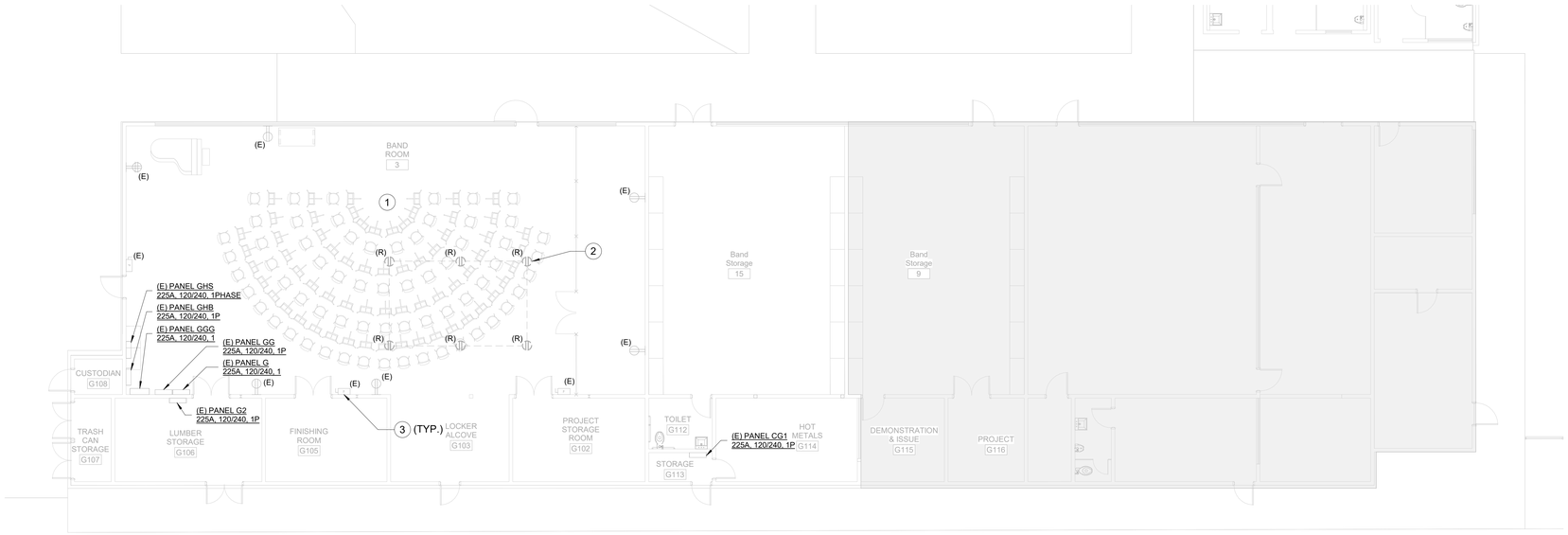
ALL EXISTING CONDUITS AND CONDUCTORS SERVING EXISTING EQUIPMENT ARE TO BE REMOVED BACK TO NEAREST JUNCTION BOX AT 7' AFF OR HIGHER.



GENERAL NOTES

A. UNDERGROUND PULL BOX SHALL BE SIZED IN ACCORDANCE WITH CEC/NEC 314.28. USE PRECAST CONCRETE, AASHTO H-20 TYPE PULL BOX FOR DELIBERATE VEHICULAR TRAFFIC APPLICATIONS (E.G., WITHIN STREETS, HIGHWAYS AND PAVED SHOULDERS ALONG HIGHWAYS).

B. UNDERGROUND PULL BOX SHALL BE SIZED IN ACCORDANCE WITH CEC/NEC 314.28. USE PRECAST CONCRETE, LIGHT DUTY TYPE PULL BOX FOR PEDESTRIAN TRAFFIC ONLY (E.G., GRASSY AREAS IN RESIDENTIAL PROPERTIES THAT ARE LOCATED AWAY FROM VEHICULAR TRAFFIC).

C. SCHEDULE 40 RIGID PVC CONDUIT SHALL BE USED FOR CONCRETE ENCASED DUCTBANK UNDER ROADWAYS, PARKING LOTS, OR OTHER AREAS SUBJECT TO VEHICULAR TRAFFIC AND ALL MEDIUM VOLTAGE WORK.

D. MAXIMUM NUMBER OF BENDS IN ONE CONDUIT RUN BETWEEN MANHOLES SHALL BE NO MORE THAN 270 DEGREES.

E. THE ENCLOSURES OF ALL SWITCHGEAR, TRANSFORMERS, UNIT SUBSTATIONS, MOTOR CONTROL S AND PANELBOARDS SHALL BE GROUNDED BY A SEPARATE GROUNDING CONDUCTOR TO THE GROUND SYSTEM.

F. THE RESISTANCE OF THE COMPLETED GROUND SYSTEM FOR STANDARD INSTALLATIONS SHALL NOT EXCEED 5 OHMS. IF ANY SPECIAL EQUIPMENT BEING INSTALLED REQUIRES A LOWER GROUND SYSTEM RESISTANCE, THAT EQUIPMENT MANUFACTURER'S MAXIMUM GROUND RESISTANCE SHALL APPLY.

G. FOR SOLIDLY GROUNDED ALTERNATE SOURCE OF EMERGENCY POWER SYSTEMS (GENERATOR) HAVING LINE TO LINE-TO GROUND VOLTAGE LARGER THAN 150V (FOR EXAMPLE 480V/277Y) AND RATED 1000A OR MORE, NO GROUND FAULT PROTECTION WITH AUTOMATIC DISCONNECTING MEANS IS REQUIRED; ONLY GROUND-FAULT INDICATION (ALARMS) SHALL BE PROVIDED IN ACCORDANCE WITH NEC/CEC, ARTICLE 700.31 AND 700.69D).

H. PROVIDE STATIONARY DIESEL-FUELED POWER SUPPLY (EPS) WITH ATS, LOAD TESTING MEANS, AND ASSOCIATED ACCESSORIES IN COMPLIANCE WITH NFPA 110, LEVEL 1, EMERGENCY POWER SUPPLY SYSTEM (EPS) REQUIREMENTS.

I. PROVIDE AN NFPA 110 COMPLIANT CONTROL PANEL MOUNTED ON THE EMERGENCY POWER SYSTEMS (EPS). NO MORE THAN 78 INCHES ABOVE THE FINISHED FLOOR TO THE TOP OF THE PANEL, INCLUDING THE CONCRETE HOUSEKEEPING PAD AND VIBRATION ISOLATORS.

J. CONDUIT ROUTING IS DIAGRAMMATICALLY SHOWN ONLY. CONDUIT SHALL BE INSTALLED AS REQUIRED TO AVOID INTERFERENCE WITH EXISTING UTILITIES AND STRUCTURES. COORDINATE EXACT LOCATIONS OF ANY SITE WORK WITH CIVIL DRAWINGS.

K. ALL JUNCTION BOXES, PULL BOXES, ETC. ARE NOT SHOWN ON THIS DRAWING, BUT SHALL BE PROVIDED WHERE NECESSARY IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE NEC/CEC.

L. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION RELATED TO CIVIL WORKS.

M. PROVIDE POST BARRIERS TO ELECTRICAL EQUIPMENT TO PROVIDE PHYSICAL PROTECTION.

CONSTRUCTION KEYNOTES

1 ALL EXISTING DEVICES TO REMAIN IN PLACE.

2 REMOVE POWER REEL CORDS BACK TO NEAREST JUNCTION BOX ABOVE 7' AFF. REMOVE HANGING UNISTRUT STRUCTURE SUPPORTING POWER REEL CORDS.

3 EXISTING DISCONNECT TO REMAIN IN PLACE. REMOVE EXISTING CONDUIT AND CONDUCTORS SERVING EXISTING WOOD SHOP EQUIPMENT TO BE REMOVED. ALL EXISTING CONDUITS ARE TO BE REMOVED BACK TO NEAREST JUNCTION BOX AT 7' AFF OR HIGHER.

ELECTRICAL ENLARGED POWER PLAN BUILDING G1 1 — 1/8" = 1'-0"

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Δ	DESCRIPTION	DATE
	100% DESIGN DEVELOPMENT	04.13.2026

CONSULTANT:

Budlong
An MBE|SBE|DBE|LSBE Firm
Glendale|Downtown LA|Fremont|Camarillo
W W W . B U D L O N G . C O M
Job No. 24-335

FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - INTERIM HOUSING

SHEET NAME:

ELECTRICAL ENLARGED POWER PLAN - BUILDING G1

100% DESIGN DEVELOPMENT

DATE: **04/13/26** | CLIENT PROJ NO: **3361-008-101**

SHEET:

E2.21

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ELECTRICAL ENLARGED POWER PLAN BUILDING B

1
1/8" = 1'-0"

GENERAL NOTES

A. UNDERGROUND PULL BOX SHALL BE SIZED IN ACCORDANCE WITH CEC/NEC 314.28. USE PRECAST CONCRETE, AASHTO H-20 TYPE PULL BOX FOR DELIBERATE VEHICULAR TRAFFIC APPLICATIONS (E.G., WITHIN STREETS, HIGHWAYS AND PAVED SHOULDERS ALONG HIGHWAYS).

B. UNDERGROUND PULL BOX SHALL BE SIZED IN ACCORDANCE WITH CEC/NEC 314.28. USE PRECAST CONCRETE, LIGHT DUTY TYPE PULL BOX FOR PEDESTRIAN TRAFFIC ONLY (E.G., GRASSY AREAS IN RESIDENTIAL PROPERTIES THAT ARE LOCATED AWAY FROM VEHICULAR TRAFFIC).

C. SCHEDULE 40 RIGID PVC CONDUIT SHALL BE USED FOR CONCRETE ENCASED DUCTBANK UNDER ROADWAYS, PARKING LOTS, OR OTHER AREAS SUBJECT TO VEHICULAR TRAFFIC AND ALL MEDIUM VOLTAGE WORK.

D. MAXIMUM NUMBER OF BENDS IN ONE CONDUIT RUN BETWEEN MANHOLES SHALL BE NO MORE THAN 270 DEGREES.

E. THE ENCLOSURES OF ALL SWITCHGEAR, TRANSFORMERS, UNIT SUBSTATIONS, MOTOR CONTROL S AND PANELBOARDS SHALL BE GROUNDED BY A SEPARATE GROUNDING CONDUCTOR TO THE GROUND SYSTEM.

F. THE RESISTANCE OF THE COMPLETED GROUND SYSTEM FOR STANDARD INSTALLATIONS SHALL NOT EXCEED 5 OHMS. IF ANY SPECIAL EQUIPMENT BEING INSTALLED REQUIRES A LOWER GROUND SYSTEM RESISTANCE, THAT EQUIPMENT MANUFACTURER'S MAXIMUM GROUND RESISTANCE SHALL APPLY.

G. FOR SOLIDLY GROUNDED ALTERNATE SOURCE OF EMERGENCY POWER SYSTEMS (GENERATOR) HAVING LINE TO LINE-TO GROUND VOLTAGE LARGER THAN 150V (FOR EXAMPLE 480Y/277Y) AND RATED 1000A OR MORE, NO GROUND FAULT PROTECTION WITH AUTOMATIC DISCONNECTING MEANS IS REQUIRED; ONLY GROUND-FAULT INDICATION (ALARMS) SHALL BE PROVIDED IN ACCORDANCE WITH NEC/CEC, ARTICLE 700.31 AND 700.69D).

H. PROVIDE STATIONARY DIESEL-FUELED POWER SUPPLY (EPS) WITH ATS, LOAD TESTING MEANS, AND ASSOCIATED ACCESSORIES IN COMPLIANCE WITH NFPA 110, LEVEL 1, EMERGENCY POWER SUPPLY SYSTEM (EPS) REQUIREMENTS.

I. PROVIDE AN NFPA 110 COMPLIANT CONTROL PANEL MOUNTED ON THE EMERGENCY POWER SYSTEMS (EPS). NO MORE THAN 78 INCHES ABOVE THE FINISHED FLOOR TO THE TOP OF THE PANEL, INCLUDING THE CONCRETE HOUSEKEEPING PAD AND VIBRATION ISOLATORS.

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L. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION RELATED TO CIVIL WORKS.

M. PROVIDE POST BARRIERS TO ELECTRICAL EQUIPMENT TO PROVIDE PHYSICAL PROTECTION.

CONSTRUCTION KEYNOTES

1 EXISTING WIREMOLD WITH DUPLEX RECEPTACLE TO REMAIN.

2 EXISTING DISCONNECT TO REMAIN IN PLACE.

3 PROVIDE NEW POWER POLE TO FEED NEW FURNITURE SYSTEM. EXTEND NEW CONDUIT AND CONDUCTORS WITHIN CEILING SPACE ABOVE T-BAR AND EXTEND TO PANEL CB2.

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Job No. 24-335

FACILITY:

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El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - INTERIM HOUSING

SHEET NAME:

ELECTRICAL ENLARGED POWER PLAN - BUILDING B

100% DESIGN DEVELOPMENT

DATE: **04/13/26**

CLIENT PROJ NO: **3361-008-101**

SHEET:

E2.22

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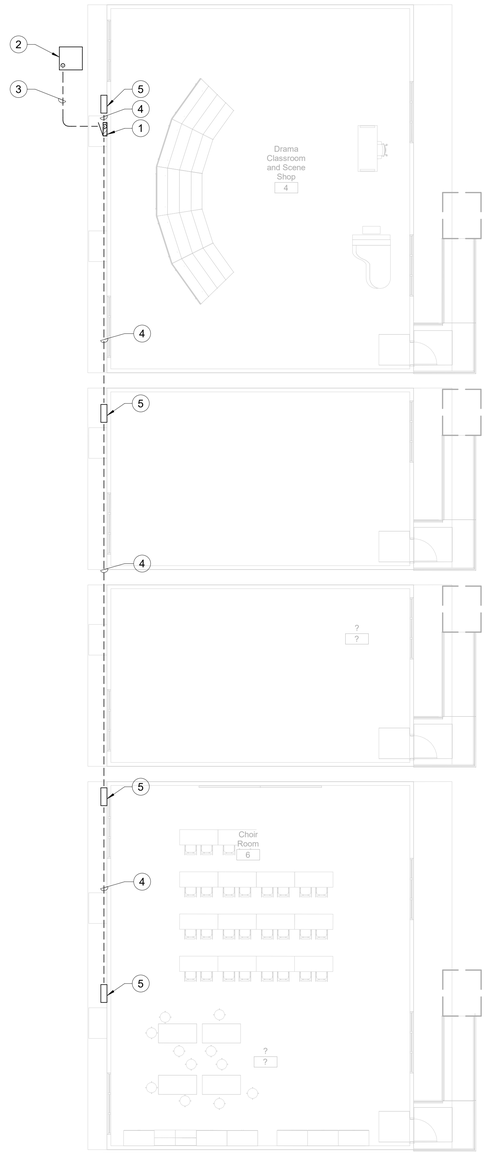

ELECTRICAL ENLARGED POWER PLAN PORTABLES

1
1/8" = 1'-0"

GENERAL NOTES

A. UNDERGROUND PULL BOX SHALL BE SIZED IN ACCORDANCE WITH CEC/NEC 314.28. USE PRECAST CONCRETE, AASHTO H-20 TYPE PULL BOX FOR DELIBERATE VEHICULAR TRAFFIC APPLICATIONS (E.G., WITHIN STREETS, HIGHWAYS AND PAVED SHOULDERS ALONG HIGHWAYS).

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E. THE ENCLOSURES OF ALL SWITCHGEAR, TRANSFORMERS, UNIT SUBSTATIONS, MOTOR CONTROL S AND PANELBOARDS SHALL BE GROUNDED BY A SEPARATE GROUNDING CONDUCTOR TO THE GROUND SYSTEM.

F. THE RESISTANCE OF THE COMPLETED GROUND SYSTEM FOR STANDARD INSTALLATIONS SHALL NOT EXCEED 5 OHMS. IF ANY SPECIAL EQUIPMENT BEING INSTALLED REQUIRES A LOWER GROUND SYSTEM RESISTANCE, THAT EQUIPMENT MANUFACTURER'S MAXIMUM GROUND RESISTANCE SHALL APPLY.

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L. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION RELATED TO CIVIL WORKS.

M. PROVIDE POST BARRIERS TO ELECTRICAL EQUIPMENT TO PROVIDE PHYSICAL PROTECTION.

CONSTRUCTION KEYNOTES

1 NEW 225A, 120/208, 3PH, 3W, PANEL 'P1', REFER TO SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.

2 NEW 75KVA TRANSFORMER 480V:120/208V, 3PH. REFER TO SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.

3 NEW 2-1/2" U.G. CONDUIT WITH (4) #4/0 & #2 GND. REFER TO SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.

4 NEW 1-1/4" U.G. CONDUIT WITH (3)#1 & #8 GND. INTERLOCK NEW FEEDERS FROM NEW PANEL 'PL' TO RELOCATED PORTABLE JUNCTION BOX POINT OF CONNECTION MATCHING NEW INSTALLATIONS.

5 NEW SURFACE-MOUNTED PULL BOX FOR RELOCATED PORTABLE ELECTRICAL FEEDER POINT OF CONNECTION. PROVIDE ALL NECESSARY ACCESSORIES FOR A FULLY OPERATIONAL SYSTEM.

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W W W . B U D L O N G . C O M
Job No. 24-335

FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - INTERIM HOUSING

SHEET NAME:

ELECTRICAL ENLARGED POWER PLAN - PORTABLES

100% DESIGN DEVELOPMENT

DATE: **04/13/26**

CLIENT PROJ NO: **3361-008-101**

SHEET:

E2.31

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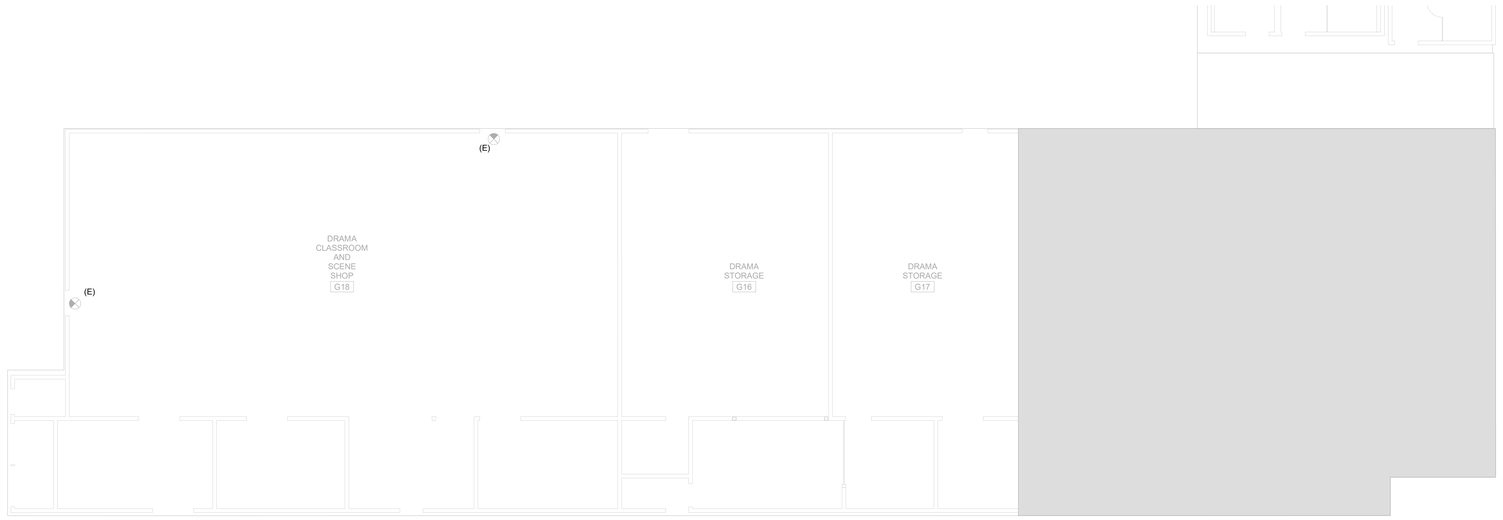

ELECTRICAL ENLARGED LIGHTING PLAN BUILDING G1 | 1 | 1/8" = 1'-0"

GENERAL NOTES

A. LOW VOLTAGE SYSTEM FOR LANDSCAPE LIGHTING SHALL NOT EXCEED 30 VOLTS DC PER NEC SECTION 411.1.

B. LIGHT FIXTURES, JUNCTION BOXES, TRANSFORMERS AND WIRING ARE SHOWN IN APPROXIMATE LOCATIONS. CONTRACTOR SHALL FIELD VERIFY ACTUAL PLACEMENT OF EACH LOCATION WITH THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

C. ALL LIGHTING FIXTURES AND TRANSFORMERS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN COMPLIANCE WITH THE CALIFORNIA/NATIONAL ELECTRICAL CODE (LATEST EDITION) AND ALL LOCAL BUILDING SAFETY CODE AND ORDINANCES.

D. REFER TO CIVIL, LANDSCAPE AND ARCHITECTURAL FOR WATER PROOFING DETAILS.

E. OUTDOOR LUMINAIRES AND ASSOCIATED EQUIPMENT CAN BE SUPPORTED BY TREES [NEC/CEC 410.36(G)].

F. VEGETATION (SUCH AS TREES) SHALL NOT BE USED TO SUPPORT OVERHEAD CONDUCTORS SPANS [NEC/CEC 225.26].

G. DIRECT BURIED CONDUCTORS AND CABLES EMERGING FROM GRADE AND SPECIFIED IN COLUMNS 1 AND 4 OF TABLE 300.5 SHALL BE PROTECTED BY ENCLOSURES OR RACEWAYS THAT EXTEND FROM MINIMUM COVER DISTANCE BELOW REQUIRED BY 300.5(A) TO A POINT 8 FT.(2.5 M) OR MORE ABOVE FINISHED GRADE.

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Job No. 24-335

FACILITY:

4921 Cedar Ave
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PROJECT:
EMUSD ARROYO HS - INTERIM HOUSING

SHEET NAME:
ELECTRICAL ENLARGED LIGHTING PLAN - BUILDING G1

100% DESIGN DEVELOPMENT

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SHEET:

E3.21

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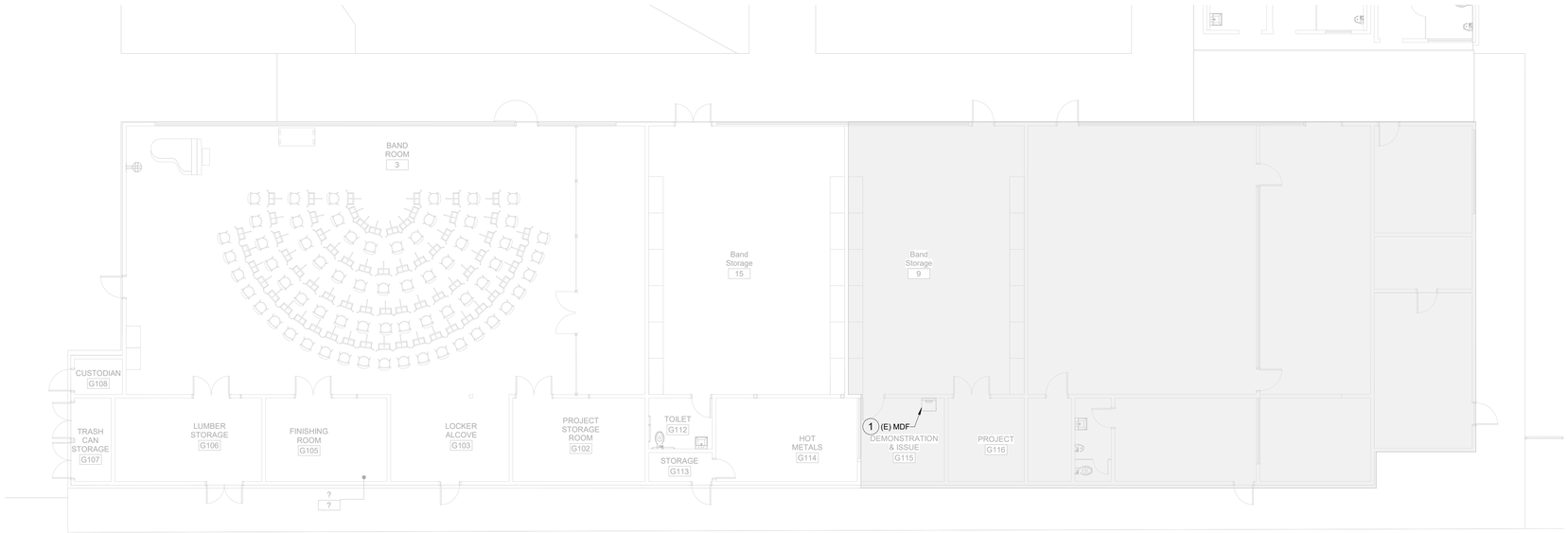

LOW VOLTAGE ENLARGED PLAN BUILDING G1 | 1 | 1/8" = 1'-0"

GENERAL NOTES

A. DEVICE LOCATIONS SHALL BE COORDINATED AND VERIFIED WITH OWNER PRIOR TO INSTALLATION. DEVICES SHOWN ARE FOR REFERENCE ONLY AND ARE NOT TO BE REFLECTED AS FINAL LOCATIONS.

B. IT SHALL BE CONTRACTORS RESPONSIBILITY TO FAMILIARIZE HIMSELF PROJECT REQUIREMENTS AND IDENTIFY AND ADDRESS ANY DISCREPANCIES IN A TIMELY MANNER IN ORDER TO AVOID ADDED COST. WHERE THESE ARE NOT BROUGHT TO OWNERS ATTENTION, CONTRACTOR MUST PROVIDE AS PART OF SCOPE.

C. PROVIDE CABLING FOR DEVICES AND EQUIPMENT AS REQUIRED PER MANUFACTURES SPECIFICATIONS. SPECIFICATIONS PROVIDED HERE-IN ARE FOR GENERAL REQUIREMENTS FOR EACH SYSTEM.

CONSTRUCTION KEYNOTES

1 EXISTING MDF CABINET TO REMAIN IN PLACE.

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CONSTRUCTION KEYNOTES

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2 EXISTING IDF CABINET TO REMAIN IN PLACE.

LOW VOLTAGE ENLARGED PLAN BUILDING B — 1 — 1/8" = 1'-0"

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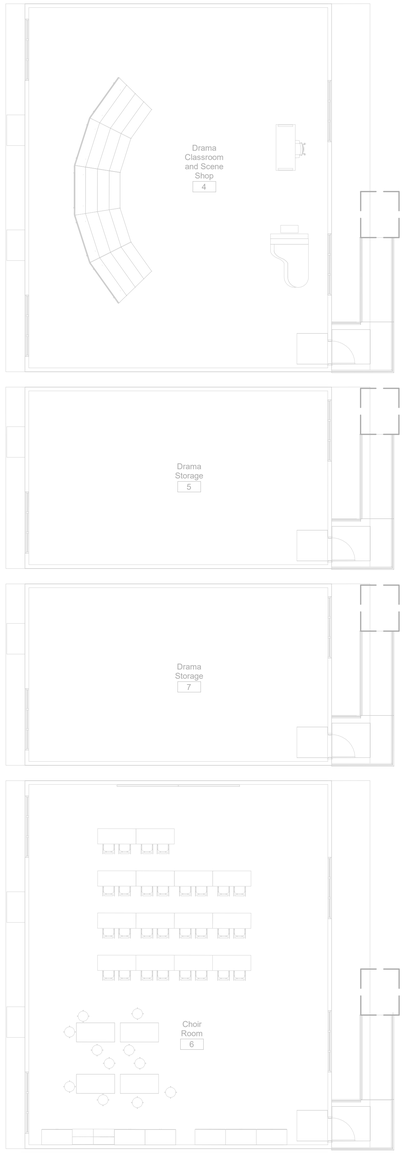

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LOW VOLTAGE ENLARGED PLAN PORTABLES 1
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LOW VOLTAGE ENLARGED PLAN - PORTABLES

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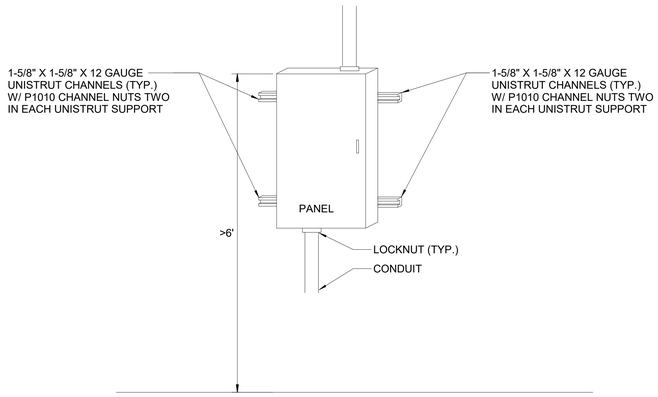
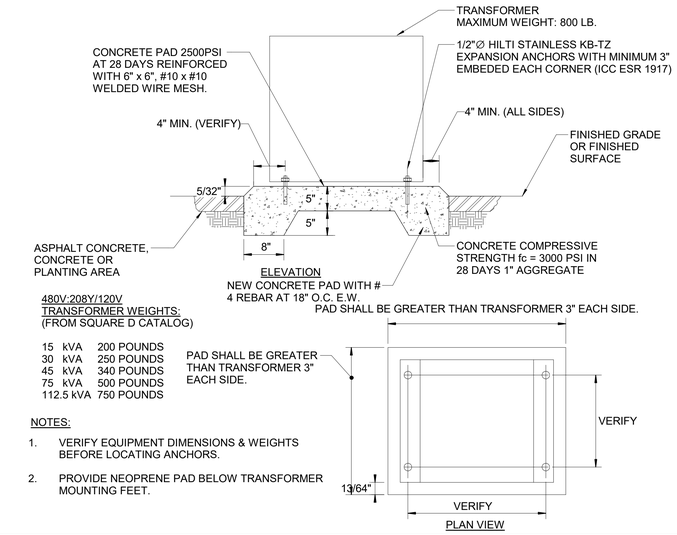


SURFACE MOUNTED PANEL DETAIL

SURFACE MOUNTED PANEL DETAIL | N.T.S. | 5



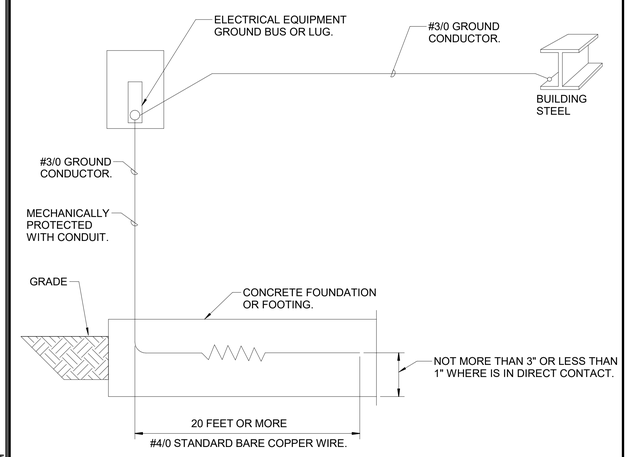
480V-208Y/120V
TRANSFORMER WEIGHTS:
(FROM SQUARE D CATALOG)

15	kVA	200 POUNDS
30	kVA	250 POUNDS
45	kVA	340 POUNDS
75	kVA	500 POUNDS
112.5	kVA	750 POUNDS

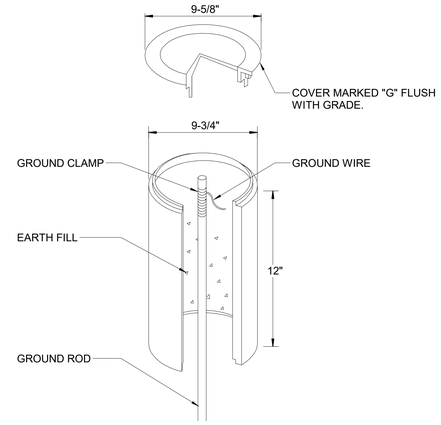
NOTES:

1. VERIFY EQUIPMENT DIMENSIONS & WEIGHTS BEFORE LOCATING ANCHORS.
2. PROVIDE NEOPRENE PAD BELOW TRANSFORMER MOUNTING FEET.

TRANSFORMER MOUNTING DETAIL | N.T.S. | 4

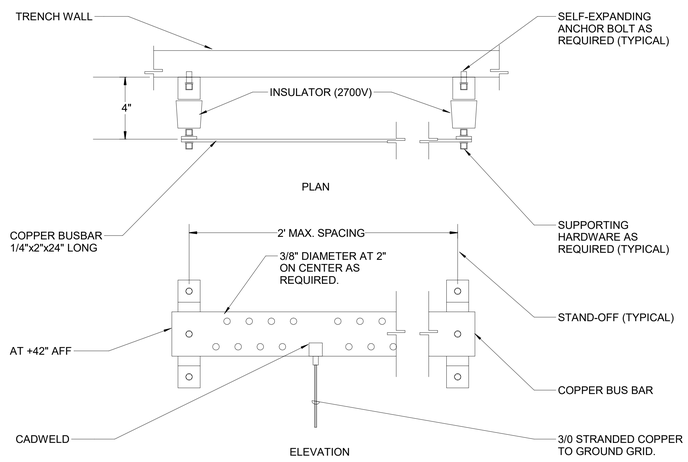


UFER GROUND DIAGRAM | N.T.S. | 3



GROUND BOX DETAIL

GROUND BOX DETAIL | N.T.S. | 2



CADWELD MANUFACTURED GROUND BUS OR EQUAL.

GROUND TERMINAL BUS BAR DETAIL | N.T.S. | 1

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Δ	DESCRIPTION	DATE
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CONSULTANT:

Budlong
An MBE|SBE|DBE|LSBE Firm
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Job No. 24-335

FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - INTERIM HOUSING

SHEET NAME:

ELECTRICAL DETAILS

100% DESIGN DEVELOPMENT

DATE: **04/13/26** | CLIENT PROJ NO: **3361-008-101**

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DEMOLITION GENERAL NOTES

1. CONTRACTOR TO REVIEW ARCHITECTURAL AND FIRE ALARM PLANS FOR ALL EXISTING PANELS/DEVICES TO BE REMOVED. FIRE ALARM PANELS/DEVICES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, WHICH ARE LOCATED IN REMOVED WALLS, FLOORS, OR CEILING, SHALL BE REMOVED UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL VISIT THE SITE, INCLUDING ALL AREAS INDICATED ON THE DRAWINGS, SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND, BY SUBMITTING A BID, SHALL ACCEPT CONDITIONS UNDER WHICH HE WILL BE REQUIRED TO PERFORM HIS WORK.
3. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO MAINTAIN CONTINUITY OF ALL FIRE ALARM SYSTEMS, PANELS, ETC., REMAINING IN OPERATION THAT ARE BEING FED BY AN ABANDONED OUTLET. MAINTAINING CONTINUITY SHALL CONSIST OF REROUTING CONDUIT, WIRING, ETC., AS REQUIRED.
4. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO REMOVAL OF EXISTING FIRE ALARM PANELS/DEVICES, AND TURN OVER REMOVED PANELS/DEVICES THAT THE OWNER REQUESTS IN AN " AS-FOUND" CONDITION. EQUIPMENT THAT IS TO BE TURNED OVER SHALL BE BOXED AND TAGGED TO IDENTIFY THE SPECIFIC EQUIPMENT.
5. ALL ABANDONED OUTLETS INCLUDING LIGHT, RECEPTACLES, DATA/TEL, FIRE ALARM DEVICES, ETC., SHALL BE COVERED AND PATCHED TO MATCH THE FINISH OF SURROUNDING WALL OR CEILING TO THE SATISFACTION OF THE OWNER.
6. CONTRACTOR SHALL PROTECT ALL EXISTING SYSTEMS WHICH ARE TO REMAIN, INCLUDING BUT NOT LIMITED TO: DATA/TEL, FIRE ALARM, SECURITY, CLOCK, BELL, POWER, AND LIGHTING. ALL OUTLETS, HARDWARE, CONDUIT, AND CONDUCTORS ARE TO BE SECURED FROM DAMAGE. CONTRACTOR SHALL TEST ALL OUTLETS, HARDWARE, CONDUIT, AND CONDUCTORS PRIOR TO COMMENCEMENT OF WORK, AND PROVIDE A WRITTEN REPORT TO OWNER/ARCHITECT, INDICATING ANY FAILURES OR DAMAGE.

GENERAL NOTES

1. APPLICABLE STANDARD NFPA 72, AS ADOPTED AND AMENDED IN CBC CHAPTER 35.
2. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATIONS, INCLUDING, STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM, HAVE BEEN APPROVED BY DSA.
3. UPON COMPLETION OF SYSTEM INSTALLATION, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.
4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.
6. DSA, ARCHITECT/ENGINEER, AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND /OR TESTING.
7. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
8. WALL-MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
9. WALL-MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THAN 6" TO A HORIZONTAL STRUCTURE.
10. AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (DBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR FIVE DBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPIABLE SPACE WITHIN THE BUILDING.
11. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
12. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
13. VISIBLE DEVICES SHOULD NOT EXCEED TWO FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISIBLE DEVICES WITHIN 55'FROM EACH OTHER SHALL BE SYNCHRONIZED.
14. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER-TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
15. ALL FIRE ALARM WIRING SHALL BE FPL OR FPLP (FIREPOWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE THHN OR THWN.
16. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.
17. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM, DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
18. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY, OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS, AND IN WALLS IN A NEAT AND PROTECTED MANNER AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
19. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURER SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
20. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION.
21. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL."CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.
22. THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETED "SYSTEM RECORD OF COMPLETION" PER NFPA 72, FIGURE 17.8.2.
23. FIRE ALARM CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48" ABOVE THE FINISHED MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.
24. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
25. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
26. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
27. ALL NEW FIRE ALARM PULLBOXES TO BE LABELED 'FIRE ALARM'.

APPLICABLE CODES

CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING PARTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR):

PART 1	2025 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, TITLE 24 C.C.R.
PART 2	2025 CALIFORNIA BUILDING CODE (CBC), TITLE 24 C.C.R (2024 INTERNATIONAL BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL WITH CALIFORNIA AMENDMENTS).
PART 3	2025 CALIFORNIA ELECTRICAL CODE (CEC), TITLE 24 C.C.R. (2026 NATIONAL ELECTRIC CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA)
PART 4	2025 CALIFORNIA MECHANICAL CODE (CMC), TITLE 24 C.C.R. (2024 UNIFORM MECHANICAL CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS IAPMO). PART 5 2025 CALIFORNIA PLUMBING CODE (CPC), TITLE 24 C.C.R. (2024 UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS IAPMO).
PART 6	2025 CALIFORNIA ENERGY CODE (CEC), TITLE 24 C.C.R.
PART 9	2025 CALIFORNIA FIRE CODE (CFC), TITLE 24 (2024 INTERNATIONAL FIRE CODE OF THE INTERNATIONAL CODE COUNCIL).
PART 10	2025 CALIFORNIA EXISTING BUILDING CODE, TITLE 24 C.C.R. (2024 INTERNATIONAL EXISTING BUILDING CODE OF THE INTERNATIONAL CODE COUNCIL WITH CALIFORNIA AMENDMENTS).
PART 11	2025 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN CODE), TITLE 24 C.C.R.
PART 12	2025 CALIFORNIA REFERENCED STANDARDS, TITLE 24 C.C.R.

TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2013 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATOR AND ESCALATORS

PARTIAL LIST OF APPLICABLE STANDARDS:

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS (CALIFORNIA AMENDED)	2025 EDITION
NFPA 14	STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS	2024 EDITION
NFPA 17	STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS	2024 EDITION
NFPA 17A	STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS	2024 EDITION
NFPA 20	STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION	2025 EDITION
NFPA 22	STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION	2023 EDITION
NFPA 24	STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES	2025 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)	2025 EDITION
NFPA 80	STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES	2025 EDITION
NFPA 2001	STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2025 EDITION
UL 300	STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2024 EDITION
UL 464	AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES	2023 EDITION
UL 521	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	2023 EDITION
UL 1971	STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED	2024 EDITION
ICC 300	STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS	2023 EDITION

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE, CHAPTER 35, FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

* ALL PARTS OF THE 2025 CALIFORNIA BUILDING CODE BECOME EFFECTIVE FROM JANUARY 1, 2026.

FIRE DEPARTMENT APPROVAL STAMP

FIRE ALARM SHEET INDEX

SHEET NUMBER	SHEET NAME
FA0.10	FIRE ALARM FRONT SHEET
FA0.11	FIRE ALARM LEGEND AND ABBREVIATIONS
FA0.12	FIRE ALARM RISER DIAGRAM AND CALCULATIONS
FA1.01	FIRE ALARM DEMOLITION SITE PLAN
FA1.21	FIRE ALARM SITE PLAN
FA2.31	FIRE ALARM ENLARGED PLAN - PORTABLES
FA-10.1	FIRE ALARM DETAILS SHEET

SCOPE OF WORK

PROVIDE FIRE ALARM COVERAGE WITH EVAC IN NEW INTERIM HOUSING PORTABLES & BUILDINGS. PROVIDE AUDIO & VISUAL NOTIFICATION VIA STROBES, SPEAKERS & SPEAKER/STROBES. PROVIDE INITIATION COVERAGE VIA SMOKE DETECTORS AND HEAT DETECTORS. PROVIDE FIRE SPRINKLER RISER MONITORING VIA FLOW SWITCH AND TAMPER SWITCH.

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PROJECT:
EMUSD ARROYO HS - INTERIM HOUSING

SHEET NAME:
FIRE ALARM FRONT SHEET

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STANDARD ABBREVIATIONS

AC	ALTERNATING CURRENT
AFF/A.F.F.	ABOVE FINISHED FLOOR
UG	UNDERGROUND
C	CONDUIT
CKT/CKT.	CIRCUIT
CL	CEILING
COMM	COMMUNICATIONS
CT	COUNTER TOP
EM	EMERGENCY
EOL	END OF LINE
FA	FIRE ALARM
MTG HT	MOUNTING HEIGHT
MTD.	MOUNTED
NTS	NOT TO SCALE
QTY	QUANTITY
TYP	TYPICAL
V	VOLTS
W.P.	WEATHERPROOF
E	EXISTING TO REMAIN
ER	EXISTING TO REMOVE
AHJ	AUTHORITY HAVING JURISDICTION
CFM	CUBIC FEET PER MINUTE
UL	UNDERWRITERS LABORATORY

ELECTRICAL SYMBOL LIST
(NOT ALL SYMBOLS ARE USED ON PLANS)

J J	JUNCTION BOX: CEILING MOUNTED, WALL MOUNTED, OR IN ACCESSIBLE CEILING SPACE
	BRANCH CIRCUIT FLUSH PANELBOARD
- - - - - - -	CONDUIT: UNDERGROUND OR BELOW GRADE. SIZE & NUMBER OF CONDUCTORS AS NOTED.
———	CONDUIT: CONCEALED ABOVE CEILING OR IN WALL IN FINISHED AREAS; EXPOSED IN UNFINISHED AREA, 3/4"C. U.O.N.
# / ###	SEE DIAGRAM #, SHEET ###
U.G P.B.	UNDERGROUND PULL BOX

WIRE SCHEDULE

CABLE TYPE	WIRE/CABLE DESCRIPTION	CIRCUIT TYPE
A	2#12 WEST PENN 60994B	AUDIBLE
V	2#12 WEST PENN 60994B	VISUAL
C	2#12 THHN/XHHW	INDOOR FCPS
C1	2#16 WEST PENN AQ225	OUTDOOR FCPS
D	2#16 WEST PENN D990	INDOOR DATA LOOP
D1	2#16 WEST PENN AQ225	OUTDOOR DATA LOOP
P	2#12 THHN/THWN	POWER
M	2#18 WEST PENN D975	ANNUNCIATOR

FIRE WATCH NOTE

EXISTING FIRE ALARM SYSTEM MUST REMAIN IN PLACE AND MUST BE OPERATIONAL AT ALL TIMES UNTIL NEW SYSTEM IS IN PLACE. WHERE FIRE ALARM SYSTEM IS SHUT DOWN DUE TO RENOVATION, FIRE WATCH MUST BE PROVIDED BY CONTRACTOR. FIRE WATCH MUST BE PROVIDED WHERE SYSTEM IS DISCONNECTED AND MUST REMAIN UNTIL SYSTEM IS RECONNECTED AND COMPLETELY FUNCTIONAL IN ORDER TO MINIMIZE DOWNTIME. CONTRACTOR MUST COMPLETE WORK DURING BUSINESS HOURS AND MAINTAIN FIRE SYSTEM IN FULL OPERATION AFTER HOURS.

CABLE CALLOUT NOTES

DEVICE DESIGNATION

INITIATING

NOTIFICATION

FIRE ALARM SYMBOL LIST

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.	C.S.F.M.	MOUNTING	REMARKS
FACP	(E) FIRE ALARM CONTROL PANEL	GAMEWELL-FCI	E3 SERIES	7165-1703:0125	SURFACE	
FATC	FIRE ALARM TERMINAL CABINET	HOFFMANN	----	----	----	PROVIDE 18"H x 18"W x 6"D @ MAIN PNL AND PROVIDE 18"H x 12"W x 6"D AT ALL OTHER LOCATION WHERE REQUIRED FOR CABLING CONNECTIONS AND DISTRIBUTION.
FAPS	FIRE ALARM POWER SUPPLY	GAMEWELL-FCI	HPFF8	7315-1637:0102	SURFACE	PROVIDE TRANSIENT SUPPRESSORS FOR POWER SUPPLY.
SD	SMOKE DETECTOR /BASE (SURFACE) CEILING MOUNTED	GAMEWELL-FCI	ASD-PL3	7272-1703:0501	SURFACE	MOUNTING BACK BOX SHALL BE MINIMUM 1.5" DEEP SMOKE DETECTOR JUNCTION BOX TO BE B710LP.
HD	HEAT DETECTOR /BASE (CONCEALED) CEILING MOUNTED	GAMEWELL-FCI	ATD-L3H	7270-1703:0502	SURFACE	MOUNTING BACK BOX SHALL BE MINIMUM 1.5" DEEP DETECTOR JUNCTION BOX TO BE B501BH.
	(FIRE RATED 24"x24" CEILING ACCESS HATCH)	ELMDOR	FRC SERIES	----	FLUSH	FOR LOCATION TO ACCESS PANELS, REFER TO ARCHITECTURAL DRAWING WHERE REQUIRED.
S XXcd	CEILING MOUNTED SPEAKER/STROBE (15cd, 30cd, 75cd, 95cd)	SYSTEM SENSOR	SPSCWLED	7125-1653:0533	SURFACE CEILING MTD.	PROVIDE SBBCWL BACK BOX SKIRT ON ALL INDOOR SURFACE MOUNT OUTLET BOXES.
S W.P.	WALL MOUNTED SPEAKER		SPRKL	7135-1653:0538	SURFACE WALL MTD.	PROVIDE SBBR BACK BOX SKIRT ON ALL OUTDOOR SURFACE MOUNT OUTLET BOXES.

FIRE ALARM SYSTEM SEQUENCE OF OPERATIONS

DEVICE / ACTION	MANUAL PULL STATIONS	AREA SMOKE DETECTORS	AREA HEAT DETECTORS	BEAM DETECTORS	SPRINKLER WATER FLOW	SPRINKLER BELL TAMPER SWITCH	POWER FAILURE	KITCHEN SUPPRESSION	SPRINKLER TAMPER SWITCH	LOW BATTERY POWER FAILURE	FAULT GROUND	SHORT CIRCUIT APPLIANCE NOTIFICATION	NOTES
ANNUNCIATE ALARM AT FACP AND REMOTE ANNUNCIATOR	X	X	X										
ANNUNCIATE SUPERVISORY CONDITION AT FACP AND REMOTE ANNUNCIATOR													
ANNUNCIATE TROUBLE AT FACP AND REMOTE ANNUNCIATOR	X	X	X				X			X	X	X	[1]
ACTIVATE AUDIBLE/VISUAL SIGNAL THROUGHOUT SCHOOL (ALARM)	X	X	X										
CONTACT CENTRAL STATION (COM)	X	X	X								X	X	
MUTE LOCAL PUBLIC ADDRESS SYSTEM	X	X	X										
DISABLE PASSING SIGNALS													
SHUT DOWN AIR HANDLING EQUIPMENT		X	X										[2]
CLOSE SMOKE/FIRE DAMPERS		X	X										[3]
CLOSE SMOKE AND FIRE DOORS													[4]
TURN ON GENERAL HOUSE LIGHTING	X	X	X										[5]
SOUND SPRINKLER BELL													
VOICE EVACUATION SYSTEM		X	X										
CODE APPROVED LOCAL ALARM TONE AT AFFECTED AREA(S) ONLY													

NOTES:

[1] INDICATE TROUBLE ON WIRING FAULT OR DEVICE AS REQUIRED.
[2] SHUT DOWN ONLY AIR HANDLER EQUIPMENT IN THE BUILDING OR AREA WHERE ALARM CONDITION OCCURS.
[3] CLOSE ONLY SMOKE AND FIRE DAMPERS IN THE BUILDING OR AREA WHERE ALARM CONDITION OCCURS.
[4] CLOSE ONLY SMOKE AND FIRE DOORS IN THE BUILDING OR AREA WHERE ALARM CONDITION OCCURS.
[5] IN MULTI-PURPOSE ROOMS, AUDITORIUMS, AND SIMILAR AREAS EQUIPPED WITH LIGHTING CONTROLS, THE GENERAL HOUSE LIGHTING SHALL COME TO FULL BRIGHT IN THE EVENT OF A FIRE ALARM CONDITION.

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FIRE ALARM DEMOLITION SITE PLAN **1** 1" = 60'-0"

GENERAL NOTES

A. THE CONTRACTOR SHALL VISIT THE PROJECT SITE TO VERIFY ALL EXISTING CONDITIONS IN RELATION TO THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND FIRE ALARM SYSTEMS. ANY DISCREPANCIES NOTED BETWEEN THE EXISTING CONDITIONS AND THE APPROVED CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO SUBMITTING BIDS.

B. SCHEDULING AND PHASING FOR DEMOLITION WORKS SHALL BE UNDERTAKEN WITH MINIMAL DISRUPTIONS ON THE OPERATIONS OF THE FIRE ALARM SYSTEMS OF THE AREAS/BUILDINGS/ROOMS NOT INCLUDED IN THE PROJECT SCOPE OF WORK.

C. EQUIPMENT SHOWN IN THE DRAWINGS TO BE REMOVED SHALL BE TAKEN OUT FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND ENVIRONMENTAL REGULATIONS. EQUIPMENT REQUIRED TO BE TURNED OVER TO THE OWNER SHALL BE PLACED IN A LOCATION ACCEPTABLE TO THE OWNER.

D. CONTRACTOR TO FIELD VERIFY EXISTING CONDITION PRIOR TO START OF ANY DEMOLITION WORK AND REPORT ANY DISCREPANCIES NOTED TO THE ENGINEER-ON-RECORD (EOR).

E. CONTRACTOR TO DISCONNECT AND REMOVE ALL FIRE ALARM DEVICES AS SHOWN ON PLANS. DISCONNECT AND REMOVE THE EXISTING EQUIPMENT INCLUDING THE ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.

F. MAINTAIN CONTINUITY OF EXISTING EQUIPMENT, DEVICES, AND CONDUIT TO REMAIN. PROVIDE NEW CONDUIT TO EXTEND EXISTING SYSTEM AS MAY BE REQUIRED.

G. DISCONNECT, REMOVE, AND RELOCATE ANY CONDUITS THAT ARE IN CONFLICT WITH NEW CONSTRUCTION WORK. THE CONTINUITY OF ANY PART OF THE SYSTEM TO REMAIN SHALL BE MAINTAINED AND KEPT IN OPERABLE CONDITION.

H. PROTECT EXISTING FIRE ALARM EQUIPMENT AND INSTALLATION SHOWN TO REMAIN. IF DAMAGED WHILE UNDERTAKING THE WORK, REMOVE THE DAMAGED SYSTEM OR EQUIPMENT AND REPLACE WITH THE SAME OR EQUIVALENT PRODUCT OF EQUAL CAPACITY AND TECHNICAL SPECIFICATIONS.

I. WHEN NEW WORK INTERFERES WITH EXISTING EQUIPMENT OR SYSTEM WORK OR OTHER TRADES, DISCONNECT, REMOVE, AND RELOCATE SAID EQUIPMENT OR SYSTEM WITHOUT INCURRING ADDITIONAL COST ON THE PART OF THE OWNER.

J. IN THE PROCESS OF REMOVING FIRE ALARM DEVICES, AND OTHER FIRE ALARM EQUIPMENT AND MATERIAL, CONTRACTOR SHALL EXERCISE EXTREME CAUTION TO AVOID DAMAGE TO THE ARCHITECTURAL SURFACES AND MATERIALS WHICH ARE TO REMAIN INCLUDING WALLS, FLOORS, CEILINGS, WINDOWS, DOORS, MOLDINGS, STRUCTURAL MEMBERS, ETC. THE COST TO REPAIR OR ANY MATERIAL DEEMED DAMAGED BY THE CONTRACTOR DURING PERFORMANCE OF HIS CONTRACT SHALL BE PAID BY THE CONTRACTOR TO THE OWNER.

DEMOLITION KEYNOTES

DIGALERT
Underground Service Alert of Southern California
811 or 800-422-4133

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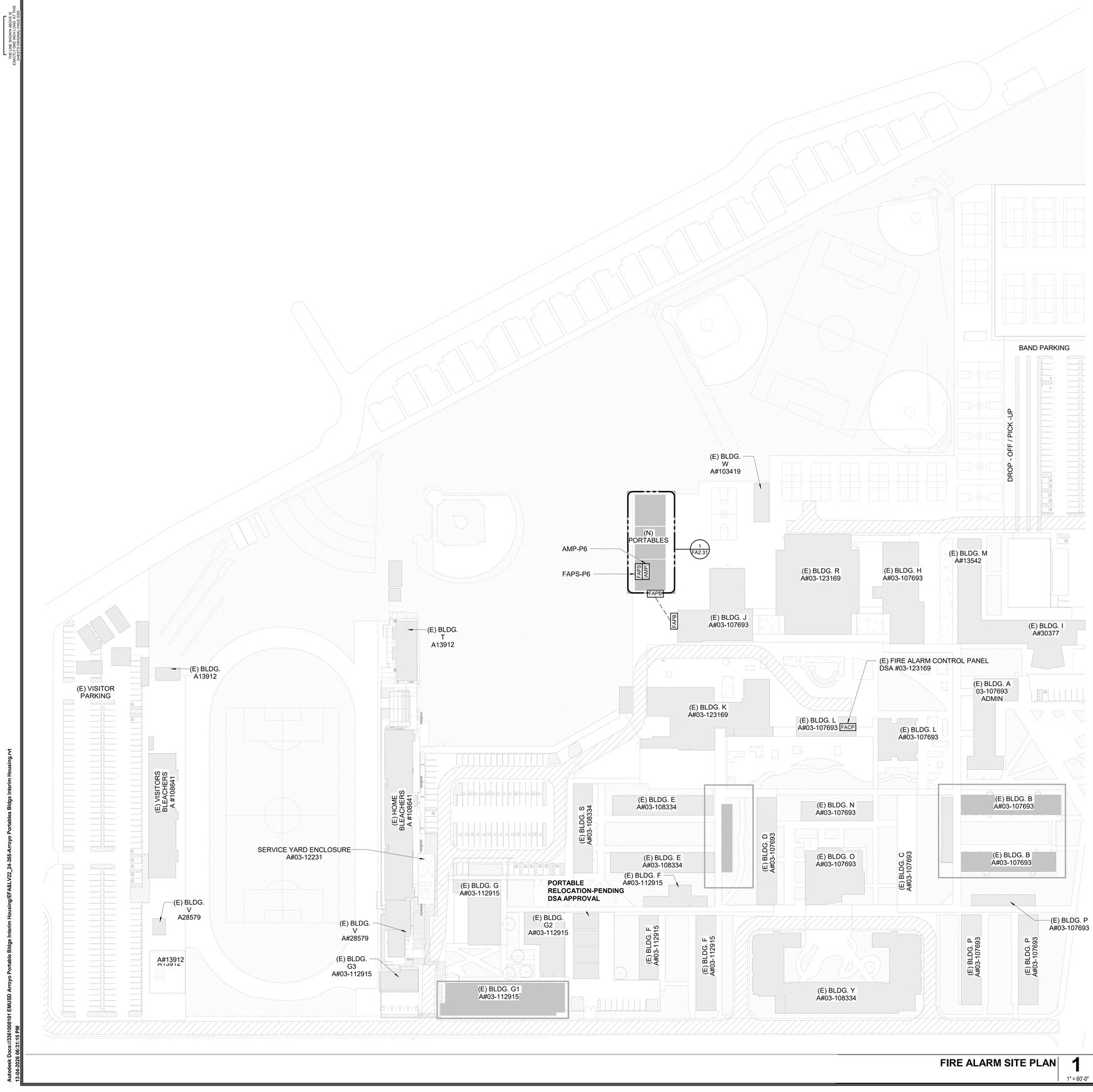

FIRE ALARM SITE PLAN **1** 1" = 60'-0"

GENERAL NOTES

A. NOTE.

CONSTRUCTION KEYNOTES

DIGALERT

Underground Service Alert of Southern California

811 or 800-422-4133

NOT FOR CONSTRUCTION

DESIGN FOR GOOD
HMC Architects
3361-008-000
633 W. 5TH STREET, THIRD FLOOR, LOS ANGELES, CA, 90071
213 542 8300 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE
	100% DESIGN DEVELOPMENT	04.13.2026

CONSULTANT:

Budlong
An MBE|SBE|DBE|LSBE Firm
Glendale|Downtown LA|Fremont|Camarillo
W W W . B U D L O N G . C O M
Job No. 24-335

FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - INTERIM HOUSING

SHEET NAME:

FIRE ALARM SITE PLAN

100% DESIGN DEVELOPMENT

DATE: **04/13/26** | CLIENT PROJ NO: **3361-008-101**

SHEET:

FA1.21

Autodesk Docs://3361008101 EMUSD Arroyo Portable Bldgs Interim Housing/EFA&LV22_24-355-Arroyo Portables Bldgs Interim Housing.rvt
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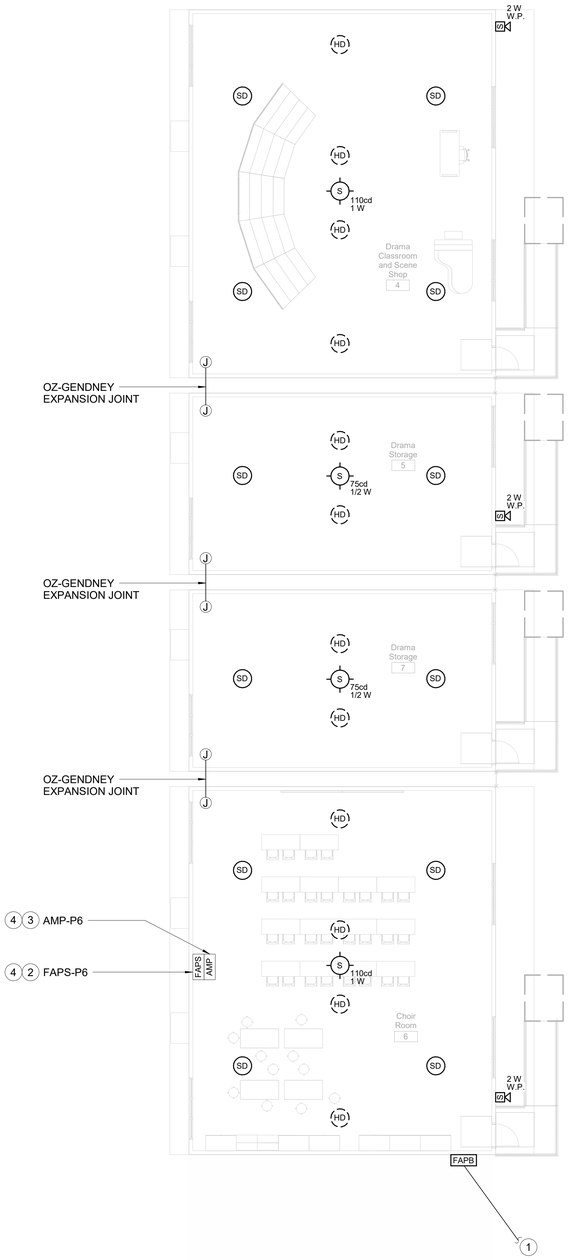
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON THIS SHEET'S ORIGINAL PAGE SIZE



GENERAL NOTES

A. ---

CONSTRUCTION KEYNOTES

1	FOR CONTINUATION REFER TO THE SHEET 1#FA1.21.
2	PROVIDE POWER TO "FAPS-P6" BY USING CIRCUIT ## FROM PANEL "##". USE 3/4"C.-3#12.
3	PROVIDE POWER TO "AMP-P6" BY USING CIRCUIT ## FROM PANEL "##". USE 3/4"C.-3#12.
4	PROVIDE NEW LOCK-ON TYPE 20A-1P CIRCUIT BREAKER WITH LABEL PER NFPA 72 AND TVSS PROTECTION BY JOSLYN #SBM100-10-1A6.

FIRE ALARM ENLARGED PLAN PORTABLES 1 — 1/8" = 1'-0"

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LOS ANGELES, CA, 90071
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Job No. 24-335

FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - INTERIM HOUSING

SHEET NAME:

FIRE ALARM ENLARGED PLAN - PORTABLES

100% DESIGN DEVELOPMENT

DATE: **04/13/26** | CLIENT PROJ NO: **3361-008-101**

SHEET:

FA2.31

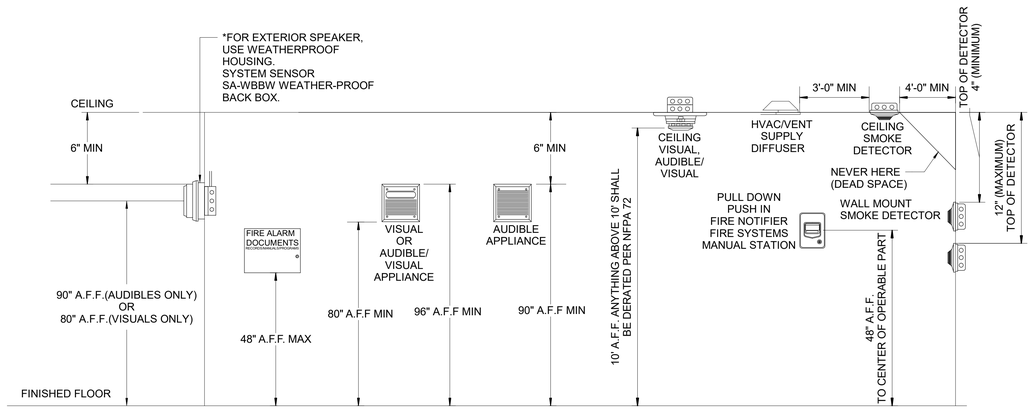
Autodesk Docs://3361008101 EMUSD Arroyo Portable Bldgs Interim Housing/EFA&LV22_24-355-Arroyo Portables Bldgs interim housing.rvt
13-04-2026 06:31:17 PM

PLEASE RECYCLE

THE LINE SHOWN ABOVE IS 3/4" LONG ON ORIGINAL PLOT. IF IT IS NOT, ADJUST SCALE ACCORDINGLY

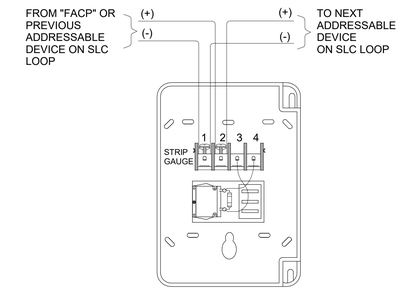
NOTES:

1. ALL FIRE ALARM DEVICES SHALL BE INSTALLED PER LATEST NFPA-72 CODES INCLUDING SECTIONS 17.6.3.1. 17.7.3.2.1 18.4.8 AND 18.5.4
2. ALL WALL MOUNTED VISUAL SIGNALING APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE BOTTOM LENS IS NOT LESS THAN 80" AND TOP OF LENS IS NOT GREATER THAN 96" ABOVE THE FINISHED FLOOR (A.F.F.)
3. ALL WALL MOUNTED AUDIBLE DEVICES SHALL BE A MINIMUM OF 90" A.F.F. TO TOP OF DEVICE AREAS HAVING MORE THAN 2 STROBES IN THE FIELD OF VIEW SHALL BE SYNCRONIZED
4. MANUAL STATION SHALL BE INSTALLED AT 48" TO TOP OF OPERABLE PART OF THE BOX ABOVE FINISHED FLOOR.
5. WEATHERPROOF AUDIBLE/STROBE SHALL BE WALL MOUNTED A MINIMUM OF 90" ABOVE FLOOR OR 6" MINIMUM BELOW THE CEILING, WHICHEVER IS LOWER. MEASUREMENTS ARE TO BE TAKEN FROM THE HIGHEST PORTION OF THE HORN.
6. SPOT-TYPE SMOKE DETECTORS SHALL BE LOCATED ON THE CEILING NOT LESS THAN 100mm (4") FROM A SIDEWALL TO THE NEAR EDGE OR, IF ON A SIDEWALL BETWEEN 100MM AND 300MM (4" AND 12") DOWN FROM FROM THE CEILING TO THE TOP OF THE DETECTOR.

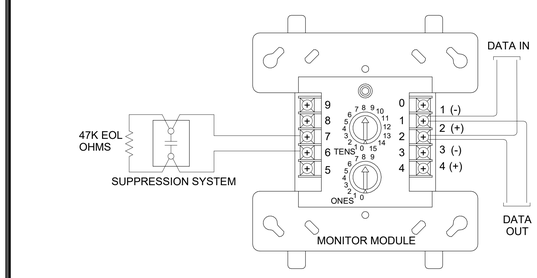


* DE-RATED STROBES SHALL MEET THE REQUIREMENTS OF SECTION 7.5.4.3. "PERFORMANCE - BASED ALTERNATIVE".
* MANUAL PULL STATION HEIGHT SHALL MEET NFPA SECT. 17.14.4 REQUIREMENTS.

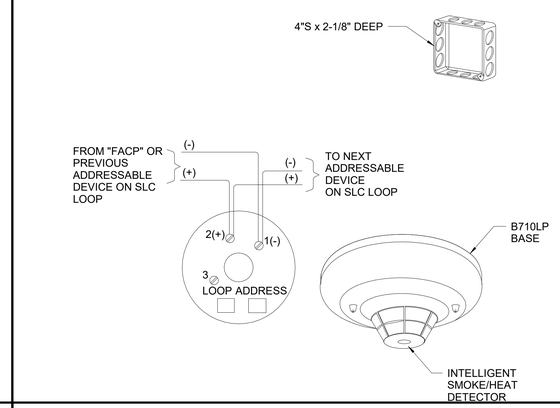
DEVICE MOUNTING ELEVATION DETAILS | N.T.S. | 6



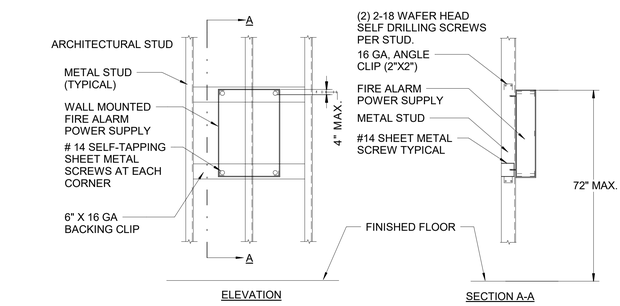
ADDRESS. PULL STATION WIRING | N.T.S. | 3



ADDRESSABLE MONITOR MODULE WIRING DIAG. | N.T.S. | 8



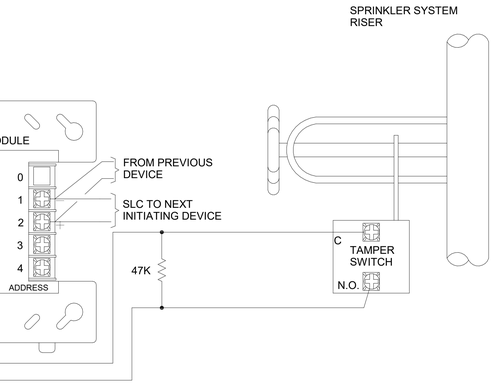
TYP. COMBINATION HORN/STROBE WIRING DIAGRAM | N.T.S. | 4



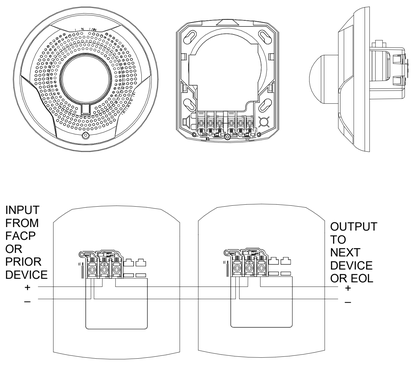
FIRE ALARM POWER SUPPLY MOUNTING DETAIL

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

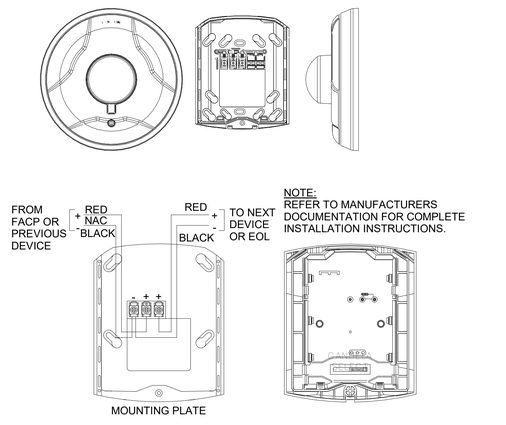
FACP/FAPS MOUNTING DETAIL | N.T.S. | 2



TYPICAL TAMPER SWITCH WIRING DIAGRAM | N.T.S. | 7



TYP. SMOKE/HEAT DETECTOR WIRING DIAG. | N.T.S. | 5



TYPICAL STROBE WIRING DETAIL | N.T.S. | 1

CONSULTANT:
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W W W . B U D L O N G . C O M
Job No. 24-335

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213 542 8300 / www.hmcarchitects.com

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ISSUE

Δ	DESCRIPTION	DATE
	100% DESIGN DEVELOPMENT	04.13.2026

FACILITY:
4921 Cedar Ave
El Monte, CA 91732

PROJECT:
EMUSD ARROYO HS - INTERIM HOUSING

SHEET NAME:
FIRE ALARM DETAILS SHEET

100% DESIGN DEVELOPMENT

DATE: **04/13/26**
CLIENT PROJ NO: **3361-008-101**
SHEET:

FA-10.1

Autodesk Docs://3361008101 EMUSD Arroyo Portable Bldgs Interim Housing/EFAALV22_24-335-Arroyo Portables Bldgs Interim Housing.rvt
12-04-2026 08:31:18 PM

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A0.2	SIGNAGE AND SYMBOLS
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A0.4	DSA-103 T&I PLYWOOD FLOORS
A0.5	CALGREEN SPEC'S
A0.6	CAL GREEN CHECKLIST
A0.7	CAL GREEN CHECKLIST
A0.8	CAL GREEN CHECKLIST
Architectural	
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A1.1	36x40 FLOOR PLAN
A1.2	48x40 thru 120x40 FLOOR PLAN
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A2.1(B)	ARCHITECTURAL WUI DETAILS (WOOD FRAMING SHTG FINISH)
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C:\Users\User\Documents\20093 - Aries, 24x40 PC - MainFile - Low Seismic_6.7_CESAR24D63.rvt 6/15/2021 11:48:48 PM

Sheet List

Sheet Number	Sheet Name
SR0	MODULE PLAN AND NOTES
SR1	RAMP LANDING
SR2	LANDING FRAME
SR3	FOUNDATION PLAN
SR4	RAMP ELEVATION
SR5	RAMP DETAILS
SR6	RAMP DETAILS
SR7	STAIR CONN

Grand total: 124

SEISMIC DESIGN -SITE SPECIFIC PARAMETERS

Select One

☐ Design based on Site Class $D_{default}$
No geotechnical investigation required
Ss = _____ Fa = 1.2

☐ Design based on site class determined per chapter 20 of ASCE 7-16
Geotechnical investigation provided
Site Class: ☐ C ☐ D ☐ E
Ss = _____ Fa = _____ per ASCE 7-16 Suppl 3, Table 11.4-1

☐ Design based on site specific ground motion hazard analysis per chapter 21 of ASCE 7-16
Short-period design spectral response parameter, S_{DS}, shall be as specified in geotechnical investigation
CGS approval required
Not eligible for OTC review
Site Class: ☐ C ☐ D ☐ E

S_{DS} = 2/3 Fa Ss = ____
Site Class C or D: 0.7 x S_{DS}* = 0.7 x ____ = ____ ≤ 1.307
Site Class E: S_{DS} = ____ ≤ 1.307
C_S = 0.373 used in design
Seismic Design Category: ☐ D ☐ E
* Site specific S_{DS} value before applying reduction allowed by ASCE 7 section 12.8.1.3

Acceptance tests be completed on newly installed or replacement of lighting controls, mechanical systems, fenestration, and process equipment before project completion per the California Energy Code Section 10-103. Acceptance tests must be performed by a certified Acceptance Test Technician (ATT). The Acceptance Testing procedures must be repeated, and deficiencies corrected until the installation of the specified systems conform and pass the required acceptance criteria. Completed NRCA forms shall be submitted to the project inspector and the district.

A DSA CERTIFIED 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 4-333 AND 4-342, PART 1, TITLE 24, CCR. CLASS R.B.I.P. FOR IN-PLANT INSPECTIONS.

SITE SPECIFIC:
COMPLY WITH CFC CHAPTERS 5 & 7, CBC CHAPTERS 3,5,7,11B & 14

NOTE: " THIS PC IS NOT APPROVED FOR CHAPTER 7A WILDLAND URBAN AREAS". THIS REVIEW IS PART OF THE SITE SPECIFIC PROJECT. THE APPROVAL OF THE PC DOES NOT INCLUDE THE SITE.

HIGH SEISMIC
DESIGN CRITERIA

FILE #: PC-128
2022 CBC

Class Leasing

PC # 04-123059

24' x 40' EXPANDABLE TO 120' x 40'

@	AT	FIXT	FIXTURE	PAR	PARALLEL
AB	ANCHOR BOLT	FJT	FLUSH JOINT	PBD	PARTICLE BOARD
ABC	AGGREGATE BASE COURSE	FLR	FLOOR	PCC	PRECAST CONCRETE
ABV	ABOVE	FLUR	FLUORESCENT	PCF	POUNDS PER CUBIC FOOT
AD	AREA DRAIN	FLEX	FLEXIBLE	PCS	PIECES
ADD	ADDENDUM	FND	FOUNDATION	PERF	PERFORATE (D)
ADH	ADHESIVE	FO*	FACE OF ____	PERI	PERIMETER
ADJ	ADJACENT, ADJUSTABLE	FP	FIREPROOF (ED)	PFB	PREFABRICATE (D)
ADOH	ALTERNATE DIRECTION OF HOOK	FP'G	FIREPROOFING	PFS	POUNDS PER SQUARE FOOT
		FR	FRAME (D)(ING)	PL	PLATE
AFF	ABOVE FINISHED FLOOR	FRC	FIRE RESISTANT COATING	PLBG	PLUMBING
AGG	AGGREGATE	FRGD	FORGED	PLF	POUNDS PER LINEAR FOOT
ALT	ALTERNATE	FRMG	FRAMING	P.L.	PARALLAM
ALUM	ALUMINUM	FT	FOOT, FEET	PLWD	PLYWOOD
ANCH	ANCHOR (AGE)	FTG	FOOTING	PMT	PAVEMENT
ANOD	ANODIZED	FURR	FURRED, FURRING	PNL	PANEL
APPRX	APPROXIMATE	FV	FIELD VERIFY	POSTEN	POST TENSION (D)
ARCH	ARCHITECT (URAL)			PRETEN	PRETENSIONED
ASPH	ASPHALT	GA	GAUGE	POLY	POLYETHYLENE
AUTO	AUTOMATIC	GALV	GALVANIZED	PR	PAIR
		GC	GENERAL CONTRACTOR	PRJ	PROJECT
B	BOTTOM	GI	GALVANIZED IRON	PSC	PRESTRESSED CONCRETE
BB	BOND BEAM	GKT	GASKET	PSF	POUNDS PER SQUARE FOOT
BC	BOTTOM CHORD	GL	GLASS, GLAZING	PSI	POUNDS PER SQUARE INCH
BD	BOARD	GLM	GLULAM	PT	POINT
BEG	BEGIN (ING)	GP	GALVANIZED PIPE	P.T.	PRESSURE TREATED
BEL	BELOW	GPM	GALLONS PER MINUTE	PTC	POST-TENSIONED CONCRETE
BIT	BITUMINOUS	GPPL	GYPSUM PLASTER	PTD	PAINTED
BJT	BED JOINT	GRVL	GRAVEL, GRANULAR	PVC	POLYVINYL CHLORIDE
BLDG	BUILDING	GRD	GRADE, GRADING	PVMT	PAVEMENT
BLK	BLOCK ('G, ING)	GRN	GRANITE		
BLW	BELOW	GSS	GALVANIZED SHEET STEEL	QTY	QUANTITY
BM	BEAM	GT	GROUT	R	RADIUS, RISER
BMK	BENCH MARK	GVL	GRAVEL	RAD	RADIUS
BO*	BOTTOM OF ____	GWB	GYPSUM WALLBOARD	RD	ROOF DRAIN
BPL	BEARING PLATE	GYP	GYPSUM	RECT	RETANGULAR
BRD	BOARD			REF	REFERENCE, REFER TO
BRDG	BRIDGING	H	HIGH	REINF	REFORCE (D) (ING)
BRG	BEARING	HBD	HARDBOARD	REM	REMOVE
BRK	BRICK	HC	HOLLOW CORE	REQD	REQUIRED
BRZ	BRONZE	HD	HEAVY DUTY	REQS	REQUIREMENTS
BS	BOTH SIDES	HDNR	HARDENER	RETG	RETAINING
BTWN	BETWEEN	HDR	HEADER	REV	REVISION, REVISED
BVL	BEVELED	HDWR	HARDWARE	RFG	ROOFING
BW	BOTH WAYS	HDWD	HARDWOOD	RFH	ROOF HATCH
		HES	HIGH EARLY STRENGTH CEMENT	RFL	REFLECT (ED)(IVE)(OR)
C	CHANNEL, COMPRESSION	HH	HANDHOLE	RM	ROOM
CAD	CADMIUM	HJT	HEADJOINT	RO	ROUGH OPENING
CAM	CAMBER	HK	HOOK	RT	FIRE RETARDANT TREATED
C/C	CENTER TO CENTER	HM	HOLLOW METAL	RT	RUBBER TILE
CEM	CEMENT	HORIZ	HORIZONTAL	RTG	RATING
CF	CUBIC FOOT	HPT	HIGH POINT	RVS	REVERSE SIDE
CHAM	CHAMFER	HR	HOUR	RVT	RIVET
CI	CAST IRON	HSA	HEADED STUD ANCHOR		
CIP	CAST-IN-PLACE	HSB	HIGH STRENGHT BOLT	S	SOUTH
CIR	CIRCLE	HT	HEIGHT	SC	SOLID CORE
CIRC	CIRCUMFERENCE	HWD	HARDWOOD	SCHED	SCHEDULE
CJ	CONSTRUCTION JOINT			SDL	SUPERIMPOSED DEAD LOAD
CJT	CONTROL JOINT			SDS	SELF DRILL SCREW
CLG	CEILING	ID	INSIDE DIAMETER	SE	STRUCTURAL ENGINEER
CLK	CAULK, ('G, ING)	IN	INCHE (ES)	SDST	SELF-DRILL, SELF-TAP'G SCREW
CLKG	CAULKING	INCL	INCLUDE (D), INCLUDING	SECT	SECTION
CLR	CLEAR	INSUL	INSULATE, INSULATION	SF	SQUARE FOOT, SQUARE FEET
CLS	CLOSURE	INT	INTERIOR	SHO	SHORE, SHORING
CM	CENTIMETER	INTM	INTERMEDIATE	SHT	SHEET
CMP	CORRUDATED METAL PIPE	INV	INVERT	SHTH	SHEATHING
CMU	CONCRETE MASONRY UNIT			SI	SQUARE INCH
CNTR	CENTER	JST	JOIST	SIM	SIMILAR
COL	COLUMN	JT	JOINT	SL	SLOPE
COG	CENTER OF GRAVITY			SLNT	SEALANT
COMB	COMBINATION	K	KIP (S)	SMS	SHEET METAL SCREW
COMP	COMPRESS (ED)(ION)(IBLE)	KO	KNOCKOUT	SOG	SLAB ON GRADE
COMPO	COMPOSITE	KSI	KIPS PER SQUARE INCH	SPA	SPACE, (ING)
CONN	CONNECT (ION)			SPC	SPACER
CONC	CONCRETE	L	LONG, LENGTH	SPEC	SPECIFICATION (S)
CONST	CONSTRUCT (ION) (ED)	LAM	LAMINATE (D)	SQ	SQUARE
CONT	CONTINUE, CONTINUOUS	LB	POUND, LAG BOLT	SSTL	STAINLESS STEEL
CONTR	CONTRACTOR	LBL	LABEL	STG	STAGGERED
COR	CORRUGATED	LC	LIGHT CONTROL	STD	STANDARD
CP	COMPLETE PENETRATION	LD	DEVELOPMENT LENGHT	STL	STEEL
CPG	COPING	LF	LINEAR FOOT	STOR	STORAGE
CPR	COPPER	LH	LEFT HAND	STRUCT	STRUCTURE
		LL	LIVE LOAD	STR	STRUCTURAL
CRS	COURSE (S)	LLH	LONG LEG HORIZONTAL	SYM	SYMETRICAL, SYMETRY
CS	COUNTERSINK	LLV	LONG LEG VERTICAL	SYS	SYSTEM
CTSK	COUNTERSUNK SCREW	LPT	LOW POINT		
CU	CUBIC	LT	LIGHT		
CX	CONNECTION	LTL	LINTEL	T	TOP, TORSION, TREAD
CY	CUBIC YARD	LVL	LEVEL (ING)	T&B	TOP AND BOTTOM
		LW	LIGHT WEIGHT	T&G	TONGUE AND GROOVE
D	DEEP, DEPTH	LWC	LIGHT WEIGHT CONCRETE	TC	TOP CHORD
DBL	DOUBLE	LWF	LIGHT WEIGHT FILL	TEN	TESION, TENSILE
DEF	DEFLECTION			TEMP	TEMPORARY, TEMPERATURE
DEG	DEGREE	M	METER (S) MOMENT	THD	THREAD (ED)
DEM0	DEMOLISH, DEMOLITION	MATL	MATERIAL	THK	THICK (NESS)
DEP	DEPRESSED	MAS	MASONRY	TMPD	TEMPERED
DEPT	DEPARTMENT	MAX	MAXIMUM	TO*	TOP OF ____
DET	DETAIL	MB	MACHINE BOLT	TL	TOTAL LOAD
DIAG	DIAGONAL	MBR	MEMBER	TR	TREAD
DIA	DIAMETER	MCONN	MOMENT CONNECTION	TS	TUBE STEEL
DIM	DIMENSION (ED)	MECH	MECHANICAL	TYP	TYPICAL
DIV	DIVISION	MED	MEDIUM		
DL	DEAD LOAD	MET	METAL	UC	UNDERCUT
DN	DOWN	MEMB	MEMBER	UGD	UNDERGROUND
DO	DITTO	MEP	MECHANICAL, ELECTRICAL, & PLUMBING	UL	UNDEREWRITERS LABORATORY
DP	DAMPROOFING			UND	UNDER
DWL	DOWEL (ED)	MFD	METAL FLOOR DECKING	UNF	UNFINISHED
DWG	DRAWING, (S)	MFR	MANUFACTURE (R) (ED)	UNO	UNLESS NOTED OTHERWISE
		MID	MID, MIDDLE		
E	EAST, MODULUS OF ELASTICITY	MIN	MINIMUM, MINUTE	V	SHEAR FORCE, VELOCITY
		MISC	MISCELLANEOUS	VB	VAPOR BARRIER
EA	EACH	MM	MILLIMETER (S)	VER	VERIFY
EB	EXPANSION BOLT	MMB	MEMBRANE	VERT	VERTICAL
EF	EACH FACE	MO	MASONRY OPENING	VG	VERTICAL GRAIN
EJT	EXPANSION JOINT	MOD	MODEL	VIF	VERIFY IN FIELD
EL	ELEVATION	MODU	MODULAR	VJ	V-JOINTED
ELEC	ELECTRIC (AL)	MOV	MOVABLE	VNR	VENEER
ENCL	ENCLOSURE, ENCLOSED	MTL	MATERIAL	V.T.R.	VENT THROUGH ROOF
ENG	ENGINEER	ML	MODULE (MOD)LINE		
EQ	EQUAL, EQUILIBRIUM	N	NORTH, NEW	W	WEST, WIDTH, WIDE, WIDE FLANGE
EQUIP	EQUIPMENT	NAT	NATURAL		
ESTM	ESTIMATE (ED)	NL	NAILABLE	W/	WITH
EV	EXPANSION BOLT	NMT	NONMETALLIC	W/O	WITHOUT
EW	EACH WAY	NO	NUMBER	WD	WOOD
EXCA	EXCAVATE (D) (ION)	NOM	NOMINAL	WI	WROUGHT IRON
(E), EXIST	EXISTING	NTS	NOT TO SCALE	WM	WIRE MESH
EXMP	EXPANDED METAL PLATE			WP	WATERPROFFING
EXP	EXPOSED	OA	OVERALL	WPR	WATER REPELLENT
EXPN	EXPANSION	o.c.	ON CENTER	WPT	WORKING POINT
EXS	EXTRA STRONG	OD	OUTSIDE DIAMETER	WS	WATER STOP
EXT	EXTERIOR, EXTERNAL	OH	OVERHEAD	WT	WEIGHT
		OHMS	OVALHEAD MACHINE SCREW	WTW	WALL TO WALL (W/W)
FAS	FASTENER	OHWS	OVALHEAD WOOD SCREW	WWF	WELDED WIRE FABRIC
FBO	FURNISHED BY OTHERS	OJ	OPEN-WEB JOINT (S)	WWM	WELDED WIRE MESH
FD	FLOOR DRAIN	OPH	OPPOSITE HAND		
FHMS	FLATHEAD MACHINE SCREW	OPNG	OPENING		
FHS	FIRE HOSE STATION	OPP	OPPOSITE		
FHWS	FLATHEAD WOOD SCREW	OFOI	OWNER FURNISHED OWNER INSTALLED		
FIN	FINISH (ED)				

CONSTRUCTION OF CLASSROOM BUILDING (RELOCATABLE)

SCOPE OF WORK

BUILDING DESIGN

NUMBER OF STORIES: 1
OCCUPANCY: "E" and "B" (Design with Floor Live Load **150 psf** only must be used for occupancy B)
CONSTRUCTION TYPE: VB
FLOOR LIVE LOAD: □ 50+15 PSF PARTITION
□ 100 PSF □ 150 PSF
FLOOR DEAD LOAD: □ WOOD FLOOR - 11 PSF
□ CONC. FLOOR - 33 PSF

ROOF LIVE LOAD: 20 PSF
ROOF SNOW LOAD: 20 PSF
ROOF DEAD LOAD: 18.5 PSF (INCLUDES SPRINKLERS & 3PSF SOLAR PANEL)
RAMPLIVE LOAD: 100PSF
FLOOD DESIGN: This PC has not been designed to accommodate flood loads. If located in a zone other than X, a letter stamped and signed from a soils engineer is needed to validate the allowable soil values assumed in this PC are still applicable. (OWNER SUPPLIED)

FLOOD DESIGN DATA: PROJECT NOT LOCATED IN A FLOOD ZONE

BUILDING AREA	**NO OVERHANG**	**WITH OVERHANG (5' @ EA. END)**
ALLOWABLE AREA =9,500 sf	□ 24x40 960 sf	□ 24x40 1200 sf
ACTUAL AREA =4,800 SF	□ 36x40 1440 sf	□ 36x40 1800 sf
	□ 48x40 1920 sf	□ 48x40 2400 sf
	□ 60x40 2400 sf	□ 60x40 3000 sf
	□ 72x40 2880 sf	□ 72x40 3600 sf
	□ 84x40 3360 sf	□ 84x40 4200 sf*
	□ 96x40 3840 sf	□ 96x40 4800 sf*
	□ 108x40 4320 sf*	□ 108x40 5400 sf*
	□ 120x40 4800 sf*	□ 120x40 6000 sf*

*Geo-hazard site specific report must be provided and approved by CGS for building area more than 4000 sf

ALLOWABLE SOIL PRESSURE: □ WOOD FTG -1000PSF □ CONCRETE FTG 1500PSF

FOUNDATION: □ WOOD (conditional) □ CONCRETE ABOVE GRADE
□ CONCRETE BELOW GRADE <2160sf (conditional)
□ CONCRETE BELOW GRADE (AMM)
SEE GENERAL NOTE 14 BELOW
PC IS DESIGNED BASED ON A PINNED CONNECTION TO THE FOUNDATION.

CEC CLIMATE ZONE: 1-16
□ CZ 1-2 RIGID R-10 / 2" □ CZ 3-15 RIGID R-5 / 1" □ CZ 16 RIGID R-15 / 4"

WIND DESIGN

ULTIMATE DESIGN SPEED: Vult = 110 mph, 3 sec GUST, Kzt = 1.0
RISK CATEGORY: II
EXPOSURE: C

EARTHQUAKE DESIGN

RISK CATEGORY: II
SEISMIC IMPORTANCE FACTOR: I = 1
MAPPED SPECTRAL RESPONSE: □Ss = 2.33, □Ss =2.8**
S1 = 1.99
DRIFT LIMIT: 0.02 x H_{story} x 12 = 2.82 PER TABLE 12.12-1
SITE CLASS: D-DEFAULT*
SEISMIC DESIGN CATEGORY: E
Note: For SDC (E) site specific motion analysis is not required if not in a seismic hazard zone and/or meets other exemptions in DSA IR A-4
SHORT/LONG PERIOD SITE COEFFICIENT: □Fa = 1.2, □Fa=1.0**, Fv = 1.7
DEISIGN SPECTRAL RESPONSE: Sds = 1.86
Sd1 = 2.26
SEISMIC RESPONSE COEFFICIENT, Cs: 0.373 (using reduced Sds as allowed by ASCE 12.8.1.3)

BASIC SEISMIC FORCE-RESISTING SYS: OMF, R = 3.5
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE
BASE SHEAR PER 24X40 MODULE: WOOD FLOOR, LL ≤ 100, BASE SHEAR= 26.44 kip
WOOD FLOOR, LL = 150, BASE SHEAR= 39.87 kip
CONC. FLOOR, LL ≤ 100, BASE SHEAR= 34.68 kip
CONC. FLOOR, LL = 150, BASE SHEAR= 48.1□□ kip

NOTE: FOR SDC (E) SITE SPECIFIC MOTION ANALYSIS IS NOT REQUIRED IF NOT IN A SEISMIC HAZARD ZONE AND/OR MEETS OTHER EXEMPTION IN DSA IR A-4
*Site Specific Ground Motion Analysis is not required because the value of SM1 is increased by 50% in accordance with excecption of item #1 of section 11.4.8 per supplement 3 of ASCE 7-16
**Geo-Hazard report with verification of site Class D must be provided and approved by CGS for site specific ARES with Ss>2.33

PARTIAL LIST OF APPLICABLE CODES AS OF January 1, 2023

2022 California Administrative Code (CAC), Part 1, Title 24 CCR
2022 California Building Code (CBC), Part 2, Title 24 CCR
2022 California Electrical Code (CEC), Part 3, Title 24 CCR
2022 California Mechanical Code (CMC), Part 4, Title 24 CCR
2022 California Plumbing Code (CPC), Part 5, Title 24 CCR
2022 California Energy Code, Part 6, Title 24 CCR
2022 California Fire Code (CFC), Part 9, Title 24 CCR
2022 California Existing Building Code (CEBC), Part 10, Title 24 CCR
2022 California Green Building Standards Code (CALGreen), Part 11, Title 24 CCR
2022 California Referenced Standards Code, Part 12, Title 24 CCR
Title 19 CCR, Public Safety, State Fire Marshal Regulations

APPLICABLE STANDARDS

For a list of applicable standards, including California amendments to the NFPA Standards, refer to CBC Chapter 35 and CFC Chapter 80.

REQUIRED PV SYSTEM SIZE (kW)

CLIMATE ZONE	24'x40'	36'x40'	48'x40'	60'x40'	72'x40'	84'x40'	96'x40'	108'x40'	120'x40'
	BUILDING SIZE								
	APPROXIMATE CONDITIONED FLOOR AREA								
	960	1440	1920	2400	2880	3360	3840	4320	4800
1	NONE	NONE	NONE	NONE	NONE	4.3	4.9	5.5	6.1
2	NONE	NONE	NONE	NONE	4.7	5.5	6.3	7.0	7.8
3	NONE	NONE	NONE	NONE	NONE	4.3	4.9	5.5	6.1
4	NONE	NONE	NONE	NONE	4.7	5.5	6.3	7.0	7.8
5	NONE	NONE	NONE	NONE	NONE	4.3	4.9	5.5	6.1
6	NONE	NONE	NONE	NONE	4.7	5.5	6.3	7.0	7.8
7	NONE	NONE	NONE	NONE	4.7	5.5	6.3	7.0	7.8
8	NONE	NONE	NONE	NONE	4.7	5.5	6.3	7.0	7.8
9	NONE	NONE	NONE	NONE	4.7	5.5	6.3	7.0	7.8
10	NONE	NONE	NONE	NONE	4.7	5.5	6.3	7.0	7.8
11	NONE	NONE	NONE	NONE	4.7	5.5	6.3	7.0	7.8
12	NONE	NONE	NONE	NONE	4.7	5.5	6.3	7.0	7.8
13	NONE	NONE	NONE	NONE	4.7	5.5	6.3	7.0	7.8
14	NONE	NONE	NONE	NONE	4.7	5.5	6.3	7.0	7.8
15	NONE	NONE	4.7	5.9	7.1	8.3	9.4	10.6	11.8
16	NONE	NONE	NONE	NONE	NONE	4.3	4.9	5.5	6.1
ALL ZONES	NONE	NONE	4.7	5.9	7.1	8.3	9.4	10.6	11.8

NOTES:
FOR SITE-SPECIFIC PROJECT, INDICATE BUILDING SIZE AND PV SYSTEM SIZE.
IF PV REQUIRES, SEE NOTE 15 UNDER GENERAL NOTES.

2 ***PV SIZING CHART***

CODE	ADOPTED YEAR	ITEM
NFPA 13	2022	AUTOMATIC SPRINKLER SYSTEMS
NFPA 72	2022	NATIONAL FIRE ALARM CODE w/ CALIFORNIA AMENDMENTS

NOTE: VISUAL DEVICES PER UL STANDARD 1971

GENERAL NOTES

1. ARCHITECT OF RECORD SHALL PROVIDE FIRE ALARM DRAWINGS WITH SITE ADAPTED PROJECTS. FIRE ALARM IS NOT PART OF THIS PC.
2. THIS PC HAS BEEN STRUCTURALLY DESIGNED TO SUPPORT THE WEIGHT OF A FIRE SPRINKLER SYSTEM
3. ALLOWABLE AREA IS BASED ON 10'-0" SETBACK FROM ASSUMED LINE
4. PC DESIGNED AS A SINGLE-STORY MODULAR BUILDING
5. SEE STRUCTURAL FOR SOIL TYPES & BEARING STRENGTHS
6. WORK SHALL CONFORM TO TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS
7. THIS PC IS NOT APPROVED FOR "A" OCCUPANCY USAGE
8. EXTERIOR PROJECTIONS TO BE FIRE PROTECTED WHERE REQUIRED
9. SEE A0.5 AND ENGERY CALC M-SHEETS FOR REQUIRED ENVELOPE ASSEMBLIES & HVAC SYSTEMS
10. ALL SPECIFICATIONS BASED ON PERFORMANCE AND ABLE TO BE SUBSTITUTED BY "EQUAL" PRODUCTS
11. BUILDINGS TO COMPLY WITH WILDLAND URBAN INTERFACE GUIDELINES WHERE APPLICABLE
12. BUILDING AND SITE FEATURES MUST COMPLY WITH CALGREEN CODE FOR ITS SPECIFIC LOCATION WHEN ADAPTED FOR SITE-USE
13. SHOULD THIS P.C. CLASSROOM BE DESIGNED TO CONNECT TO ANOTHER P.C. CLASSROOM, INTERIOR SOUND TRANSMISSION IN THE WALL AND FLOOR-CEILING ASSEMBLY MUST MEET A MINIMUM STC OF 40 PER CALGREEN

*14. THE CONCRETE BELOW GRADE FOUNDATION (AMM) OPTION IN THIS PC USES A DSA-APPROVED ALTERNATE MEANS OF COMPLIANCE FOR FOUNDATION DURABILITY REQUIREMENTS OF CBC SECTIONS 1402.2 AND 1403.2 FOR PROVIDING A WEATHER-RESISTANT EXTERIOR WALL ENVELOPE AND CONTINUOUS WATER-RESISTIVE BARRIER ON WALLS DOWN TO THE FOUNDATION, AND CBC SECTION 2304.12.1.2 FOR PROTECTION AGAINST DECAY AND TERMITES.

15. PC DOESN'T INCLUDE THE DESIGN OF PV RACK SYSTEM ON ROOF- A SEPARATE DESIGN AND DSA APPLICATION WILL BE REQUIRED. PV ON ROOF WILL NOT BE ALLOWED FOR OTC APPLICATION

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
11590 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRISCH
No. 63380
Exp. 03/31/24
STRUCTURAL
STATE OF CALIFORNIA
RST#22088
02/16/24

THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEVISED SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. ©

CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
COVER SHEET

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE

SHEET NO.
A0.0

SHEET OF

ARCHITECTURAL

(6) General Architectural Sheets 1/4" = 1'-0"

GENERAL ARCHITECTURAL SHEETS	Sheet
COVER SHEET	A0.0
PROJECT OPTIONS SCHEDULE	A0.0.1
TYPICAL KEY PLAN AND SCHEDULE, GEN NOTES	A0.1
SIGNAGE AND SYMBOLS	A0.2
DSA-103 T&I CONCRETE FLOORS	A0.3
DSA-103 T&I PLYWOOD FLOORS	A0.4
CALGREEN SPEC'S	A0.5
CALGREEN SHEET	A0.6
CALGREEN SHEET	A0.7
CALGREEN SHEET	A0.8

(5) Floor Plan Details 1/4" = 1'-0"

ARCHITECTURAL FLOOR PLANS		Sheet
□ Floor Plans	□ Floor Plan - 24'x40'	A1.0
	□ Floor Plan - 36'x40'	A1.1
	□ Floor Plan - 48'x40'	A1.2

(1) Arch Floor Framing Details 1/4" = 1'-0"

ARCHITECTURAL FLOOR FRAMING DETAILS

							Sheet
	1	2	3	4	5	6	
□ Wood Floor	7	8	9	10	11	12	A2.9
□ Concrete Floor							A2.9

(2) Wall Schedule 1/4" = 1'-0"

ARCHITECTURAL WALL DETAILS

Wood Studs	Detail														Sheet
	Door		ML			Window	Corner	HVAC	Top PLT	6" SEP	1-HR OPT 1	1-HR OPT 2	EXT HDR	INT HDR	
□ Sheating	8	9	2	3	4 5	11	1	16	17	5	x	x	10A	10B	A2.1(A)
□ Sheating	8	9	2	3	4 5	11	1	16	17	5	x	x	10A	10B	A2.1(B)
□ Plaster	8	9	3	4	5	11	1	16	17	5	x	x	10A	10B	A2.2
□ 1-HR Sheating	8	9	2	3	4 5	11	1	16	17	5	-	-	10A	-	A2.5(A)
□ 1-HR Sheating	8	9	2	3	4 5	11	1	16	17	5	-	-	10A	-	A2.5(B)
□ 1-HR Plaster	8	9	2	3	4 5	11	1	16	17	4	-	-	10A	-	A2.6
□ Additional Fire Rating Details and Notes															A3.0
□ Single OCC. Bathroom															A3.1
□ Single OCC. Bathroom															A3.1.1

(4) Ceiling Plans 1/4" = 1'-0"

ARCHITECTURAL CEILING PLANS

			Sheet
Reflected Ceiling Plans:	□ 24' x 40'	□ 8 (2'x4') Recessed Light Fixture	A3.2
		□ 12 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light	A3.2
	□ 36' x 40'	□ 12 (2'x4') Recessed Light Fixture	A3.2
		□ 16 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light	A3.2
	□ 48' x 40'	□ 16 (2'x4') Recessed Light Fixture	A3.2
		□ 18 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light	A3.2
Celing Notes			A3.2.1

(3) Ceiling Details 1/4" = 1'-0"

ARCHITECTURAL CEILING DETAILS

Celing Framing	Detail				Sheet
	Wall	Joists	Access	BLK'G	
□ T-GRID	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	A3.3
□ Wood	1	2	5	Typ	A3.4

(7) Roof Plans 1/4" = 1'-0"

ARCHITECTURAL ROOF PLANS

		Sheet
□ Mono		
	□ EPDM	A4.2.1
	□ Standing Seam	A4.0.1
	□ Parapet	A4.4.1
□ Dual		
	□ EPDM	A4.2.2
	□ Standing Seam	A4.0.2

(22) Roof Details 1/4" = 1'-0"

ARCHITECTURAL ROOF DETAILS

		Sheet
□ Mono		
	□ EPDM	A4.3
	□ Standing Seam	A4.1
	□ Parapet	A4.5
□ Dual		
	□ EPDM	A4.3
	□ Standing Seam	A4.1

(8) Arch Building Section 1/4" = 1'-0"

ARCHITECTURAL BUILDING SECTION

		Sheet
□ Mono		
	□ EPDM	A6.3
	□ Standing Seam	A6.0
□ Dual		
	□ EPDM	A6.1
	□ Standing Seam	A6.0.1
Section		A6.2

ARCHITECTURAL

(13) Exterior Elevations 1/4" = 1'-0"

ARCHITECTURAL EXTERIOR ELEVATIONS

		Detail		Sheet	Detail		Sheet
		Left	Right		Front	Rear	
Exterior Elevations:	□ 24'x40'						
	□ Mono Slope	1	2	A5.0	1	2	A5.1
	□ Parapet Roof - Mono Slope	3	4	A5.0	3	4	A5.1
	□ Dual Slope	5	6	A5.0	1	2	A5.1
	□ 36'x40'						
	□ Mono Slope	1	2	A5.0	5	6	A5.1
	□ Parapet Roof - Mono Slope	3	4	A5.0	7	8	A5.1
	□ Dual Slope	5	6	A5.0	5	6	A5.1
	□ 48'x40' - 120'X40'						
	□ Mono Slope	1	2	A5.0	9	10	A5.1
	□ Parapet Roof - Mono Slope	3	4	A5.0	11	12	A5.1
	□ Dual Slope	5	6	A5.0	9	10	A5.1

(14) Interior Elevations 1/4" = 1'-0"

ARCHITECTURAL INTERIOR ELEVATIONS

		Detail				Sheet
		Left	Right	Front	Rear	
Interior Elevations:	□ 24'x40'	1	2	3	4	A5.2
	□ 36'x40'	1	2	5	6	A5.2
	□ 48'x40' - 120'X40'	1	2	8	7	A5.2

(23) ADDITIONAL OPTIONS DETAILS 1/4" = 1'-0"

ADDITIONAL OPTIONS DETAILS

	Sheet
ADDITIONAL OPTIONS DETAILS	A7.0
ADDITIONAL OPTIONS DETAILS	A7.1
ADDITIONAL OPTIONS DETAILS	A7.2

MEP

(9) Plumbing 1/4" = 1'-0"

PLUMBING	Sheet
□ Plumbing Details and Schedules	P1.0

(10) Mechanical 1/4" = 1'-0"

MECHANICAL

MISCELLANEOUS NOTES & DETAILS			Sheet	
			M0.1	
			Ceiling Plan	Roof Plan
Mechanical Plans:	□ 24' x 40'	□ Wall Mount	M5.1	M5.2
		□ Roof Mount	M5.1	M5.2
	□ 36' x 40'	□ Wall Mount	M6.1	M6.2
		□ Roof Mount	M6.1	M6.2
	□ 48' x 40'	□ Wall Mount	M7.1	M7.2
		□ Roof Mount	M7.1	M7.2
	□ 60' x 40'	□ Wall Mount		
		□ Roof Mount		
	□ 72' x 40'	□ Wall Mount		
		□ Roof Mount		
	□ 84' x 40'	□ Wall Mount		
		□ Roof Mount		
	□ 96' x 40'	□ Wall Mount		
		□ Roof Mount		
	□ 108' x 40'	□ Wall Mount		
		□ Roof Mount		
	□120' x 40'	□ Wall Mount		
		□ Roof Mount		

A0.1

(11) Electrical 1/4" = 1'-0"

ELECTRICAL

			Sheet	
Reflected Ceiling Plans:	□ 24' x 40'	□ 8 (2'x4') Recessed Light Fixture		
		□ 12 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light	E1.0	E1.1
	□ 36' x 40'	□ 12 (2'x4') Recessed Light Fixture		
		□ 18 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light	E1.2	E1.3
	□ 48' x 40'	□ 16 (2'x4') Recessed Light Fixture		
		□ 24 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light	E1.4	E1.5
	□ 60' x 40'	□ 20 (2'x4') Recessed Light Fixture		
		□ 30 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light		
	□ 72' x 40'	□ 24 (2'x4') Recessed Light Fixture		
		□ 36 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light		
	□ 84' x 40'	□ 28 (2'x4') Recessed Light Fixture		
		□ 42 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light		
	□ 96' x 40'	□ 32 (2'x4') Recessed Light Fixture		
		□ 48 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light		
	□ 108' x 40'	□ 36 (2'x4') Recessed Light Fixture		
		□ 54 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light		
	□ 120' x 40'	□ 40 (2'x4') Recessed Light Fixture		
		□ 60 (1'x8') Pendant Light w/ 4 (1'x16') Recessed Light		

STRUCTURAL

(15) Foundations Plans 1/4" = 1'-0"

FOUNDATION

		Sheet
□ Wood Foundation Plan:	Wood Foundation NOTES SCHED FOR BLDG W/ 50+15	F1.10
	□ 24'x40' (50+15 PSF)	F1.11
	□ 24'x40' (100 PSF)	F1.21
	□ 24'x40' (150 PSF)	F1.31
	□ 36'x40' (50+15 PSF)	F1.12
	□ 36'x40' (100 PSF)	F1.22
	□ 36'x40' (150 PSF)	F1.32
	□ 48'x40' (50+15 PSF)	F1.13
	□ 48'x40' (100 PSF)	F1.23
	□ 48'x40' (150 PSF)	F1.33
	Wood Foundation Details	F1.40
□ Concrete Foundation Plan		F2.10
□ Concrete Above Grade Foundation Details		F2.20
□ Concrete Below Grade Foundation Details		F2.22
		F2.23

(16) General Structural Sheets 1/4" = 1'-0"

GENERAL STRUCTURAL SHEETS

	Sheet
STRUCTURAL GEN NOTES	S0.1

(17) Floor Framing Plans 1/4" = 1'-0"

STRUCTURAL FLOOR FRAMING PLANS

		Sheet
□ Wood Sheating Floor:		
	□ (50+15 PSF)	S1.01
	□ (100 PSF)	S1.02
	□ (150 PSF)	S1.03
□ Concrete Framing Floor:		
	□ (50+15 PSF)	S1.1.1
	□ (100 PSF)	S1.1.2
	□(150 PSF)	S1.1.3

(19) Floor Framing Details 1/4" = 1'-0"

STRUCTURAL FLOOR FRAMING DETAILS

	Sheet
□ Wood Framing	S1.2
□ Concrete Framing	S1.2

(18) Roof Framing Plans 1/4" = 1'-0"

STRUCTURAL ROOF FRAMING PLANS

	Sheet
□ Mono Slope Roof Framing	S3.0.1
□ Dual Slope Roof Framing	S3.0.2

STRUCTURAL DETAILS ROOF

	Sheet
STRUCTURAL DETAILS	S3.1
ROOF DETAILS(SOFFIT/ PARRAPET)	S3.2
ROOF PERIMETER TRUSS	S3.3

(20) Wall Framing Details 1/4" = 1'-0"

STRUCTURAL WALL FRAMING DETAILS

□ Wood:	Sheet
□ Framing Elevation	S4.1
□ Wall Details	S4.2
□ Typ Framing:	S4.4
□ Framing Schedule:	S4.5

(21) Building Section 1/4" = 1'-0"

STRUCTURAL BUILDING SECTION

	Sheet
□ Mono	S5.0
□ Dual	S5.1

PROJECT SPECIFIC STATE AGENCY APPROVAL

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11590 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
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PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER ANTHONY D. FRITCHLEY No. S3380 Exp. 03/31/24 STRUCTURAL STATE OF CALIFORNIA

02/16/24

RST#22088

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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

CODE: 2019 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

PROJECT OPTIONS SCHEDULE

PROJECT NUMBER 22088

DRAWN BY rMc/SC

CHECKED BY RH/RT

DATE 06/15/2021

SHEET NO. A0.0.1

SHEET OF

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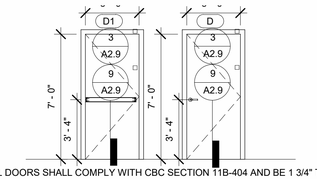
Door Schedule

Mark	Type	Width	Height	Door Material	Frame Type	Wall Thickness	Hardware
1	D1	3' - 0"	7' - 0"	18GA Hollow Metal	Knock Down	5 1/4"	HW1
2	D	3' - 0"	7' - 0"	18GA Hollow Metal	Knock Down	5 1/4"	HW2
3	D	3' - 0"	7' - 0"	Solid Core Wood Legacy	Knock Down	5 1/2"	HW3



1. ALL DOORS SHALL COMPLY WITH CBC SECTION 11B-404 AND BE 1 3/4" THK (UNO)

2. CENTER ALL DOOR LEVERS FOR ACCESS AND LOCKING @ 40" ABOVE FINISH FLOOR. ALL HARDWARE SHALL OPEN FROM THE INTERIOR AND NOT REQUIRE ANY SPECIFIC KNOWLEDGE OF THE HARDWARE OR REQUIRE ANY SPECIAL EFFORT FOR EGRESS. THE LEVER OF LEVER-ACTUATED LEVERS OR LOCKS SHALL BE CURVED WITH A RETURN TO WITHIN 1/2" OF THE FACE OF THE DOOR TO PREVENT CATCHING ON THE CLOTHING (etc.) OF PERSONS DURING EGRESS. THE LEVER OF LEVER-ACTUATED LEVERS OR LOCKS SHALL EXTEND AT A MINIMUM OF ONE-HALF THE DOOR WIDTH.

3. PER CBC 1010.1.10 FOR ANY ROOM CONFIGURATION WHICH PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER SHALL NOT BE PROVIDED WITH A LATCH OR LOCK UNLESS IT IS PANIC HARDWARE OR FIRE EXIT HARDWARE AND COMPLY WITH ALL REQUIREMENTS OF SECTION 11B-309 OF THE CBC. ALL HARDWARE SHALL COMPLY WITH HARDWARE SCHEDULE THIS SHEET.

4. PER CBC 11B-309.4 THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS (22.2 N) MAX.

5. PER CBC 11B-404.2.8.2 DOOR SPRING HINGES SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70 DEGREES, THE DOOR SHALL MOVE TO THE CLOSE POSITION IN 1.5 SECONDS MINIMUM. ALL CLOSER MUST COMPLY WITH CBC 11B-404.2.8.1 - DOOR CLOSER AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS OR LESS.

6. THE MAXIMUM AREA OF EXTERIOR WALL OPENING PER CBC TABLE 705.8 AND THE FIRE PROTECTION FOR EXTERIOR WALL PER CBC TABLE 602. ALL FIRE PROTECTION BASED ON THE FIRE SEPARATION DISTANCE.

7. DOOR LOCATION MAY VARY BASED ON PROJECT REQUIREMENTS.

8. (PH) ON PLANS THE SHEET INDICATES REQUIRED PANIC HARDWARE.

9. PROVIDE EXIT SIGNS AS REQUIRED PER CBC SECTION 1013.4. SEE DETAILS PER A0.2

10. ALL EXIT DOORS SHALL BE OPENABLE FROM INSIDE W/O ANY USE OF SPECIAL TOOLS, KNOWLEDGE OR EFFORT.

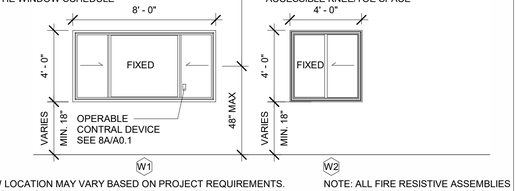
9 ***Doors***

Window Schedule

Mark	Type Mark	Height x Width	Function	Type Comments	Glazing	Source
A	W1	4'-0" x 8'-0"	XOX	Clear Anodized Alum. Frame	*DP	Manufacturer
B	W2	4'-0" x 4'-0"	XO	Clear Anodized Alum. Frame	*DP	Manufacturer
C	W3	21ø		SOLAR TUBE		Manufacturer
D	W4	21ø		SOLAR TUBE		Manufacturer

NFRC LABELS SHALL STAY ON THE FENESTRATION PRODUCTS UNTIL THE INSPECTOR HAS VERIFIED THAT THE INSTALLED U-FACTOR, SHGC, AND VT MATCH THE WINDOW SCHEDULE

SEE NOTE 1.
46" MAX w/ OBSTRUCTION FOR SIDE APPROACH
44" MAX w/ OBSTRUCTION FOR FRONT APPROACH
OVER 24" DEEP X 34" MAX HIGH OBSTRUCTION WITH ACCESSIBLE KNEE/TOE SPACE



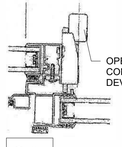
WINDOW LOCATION MAY VARY BASED ON PROJECT REQUIREMENTS. SAFETY GLAZING MUST BE APPROPRIATELY MARKED AND IDENTIFIED.

WINDOW - 3/4" INSULATING GLASS UNIT PERFORMANCE
U-VALUE : 0.35
SHGC : 0.24
VT : 0.5

ABBREVIATIONS:
DP - DUAL PANE
T - TEMPERED GLASS

NEW BUILDINGS THAT ARE INCLUDED IN PUBLIC SCHOOLS (KINDERGARTEN THROUGH 12TH GRADE) SHALL INCLUDE LOCKS THAT ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANCY OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INSIDE. THE LOCKS SHALL CONFORM TO THE SPECIFICATION AND REQUIREMENTS FOUND IN SECTION 1010.1.9 Education Code 17075.50,

NOTE: ALL FIRE RESISTIVE ASSEMBLIES FOR PROTECTION OF OPENINGS SHALL COMPLY WITH THE PROVISIONS OF SECTION 716 CBC.



8A

8 ***Windows***

1. PLACE (2) PERMANENT METAL IDENTIFICATION LABELS ON EACH MODULE. CLIMATE ZONE DATA INCLUDED ON LABEL
(1) LABEL AT REAR EXTERIOR
(1) LABEL ABOVE CEILING LINE AT INTERIOR FRAME.
LABELS WILL BE MECHANICALLY FASTENED AND SHOW THE DSA APPLICATION NUMBER, MANUFACTURERS NAME AND SERIAL NUMBER, DESIGN LIVE LOAD FOR ROOF AND FLOOR FRAMING, WIND SPEED, EXPOSURE CATEGORY, AND Kzt = 1.0 PER 2022 CBC

2. VINYL TACKBOARD TO HAVE A CLASS 1 FLAME SPREAD RATING AND COMPLY WITH A SMOKE DENSITY OF 175

3. VERIFIED ALL DIMENSIONS PRIOR TO CONSTRUCTION

4. SEE INTERIOR ELEVATIONS FOR ALL REQUIRED EGRESS SIGNAGE AND FIRE ALARM SYSTEM COMPONENTS

5. WHEN RELOCATING OR REMOVING INTERIOR PARTITIONS (2) EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED. EXIT DOORS MUST BE SEPERATED BY A DISTANCE APART EQUAL TO OR NOT LESS THAN ONE-HALF OF THE MAXUMUM OVERALL DIAGONAL DIMENSION FOR ALL NONSPRINKLERED BUILDINGS. EXIT DOORS MUST BE SEPERATED BY A DISTANCE APART EQUAL TO OR NOT LESS THAN ONE-THIRD OF THE MAXUMUM OVERALL DIAGONAL DIMENSION FOR ALL SPRINKLERED BUILDINGS. ALL EXIT AND EXIT ACCESS DOORWAYS MUST COMPLY WITH CBC SECTION 1015 EXIT AND EXIT ACCESS DOORWAYS AND CBC SECTION 1016 EXIT ACCESS TRAVEL DISTANCE.

6. OCCUPANCY LOAD SIGNS SHALL BE POSTING AND COMPLY WITH CBC SECTION 1004.3

7. SEE ADDITIONAL PC FOR ACCESS RAMPS AND STAIRS. WHERE RAMP IS AGAINST THE WALL AT PLASTER EXTERIOR OR ADJACENT TO ANY ABRASIVE SURFACE THEN A SMOOTH TROWEL SURFACE MUST BE PROVIDED AT THESE LOCATIONS OR AN ALTERNATIVE APPLICATION THAT COMPLIES WITH CBC SECTION 11B-505.8

8. ALL SURFACES ADJACENT TO HANDRAILS SHALL NOT HAVE ANY SHARP, ABRASIVE, OR PROTRUDING COMPONENTS

9. HANDRAIL GRIPPING SURFACES AND ANY SURFACES ADJACENT TO THEM SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES. PER 11B-505.8

10. FOR PLASTER WALLS PROVIDE CONTROL JOINTS AT ALL MODLINES, ENDWALLS @ 2'-0 FROM EDGE, 10'-0" o/c @ SIDEWALLS, AND ABOVE AND BELOW ALL OPENING. SEE EXTERIOR ELEVATIONS. ALL MATERIALS, MEANS, METHODS, AND PROCEDURES OF CONSTRUCTION USED TO PROTECT JOINTS SHALL COMPLY WITH FIRE RATED WALL ASSEMPLY PER CBC SECTION 703.2 - FIRE RESISTANCE RATING AND CBC SECTION 705 - EXTERIOR WALLS

11. FOR HVAC UNITS WHICH HEIGHT FROM GRADE TO BOTTOM OF UNIT EXCEEDS 27" AND LOCATED IN PEDESTRIAN PATH OF TRAVEL, A PROTECTION RAIL AROUND THE HVAC UNIT WILL BE PROVIDED. PER MNF INSTALLATION INSTRUCTIONS. SEE 4/A7.2 OR 5/A7.2.

2 ***A0.1 GENERAL NOTES***

MOISTURE PROTECTION INSULATION:

MATERIAL:
INSULATING MATERIAL FOR WALLS, CEILINGS, AND FLOORS SHALL BE FIBERGLASS BATTS (UNFACED) AND SHALL COMPLY WITH CBC 2022.
(CLASS A = 0-25 FLAME SPREAD:) SMOKE DEVELOPMENT DENSITY LESS THAN 450.

INSULATION VALUES
SEE TITLE 24 SHEETS FOR REQUIRED INSULATION VALUES PER CLIMATE ZONE

EXTERIOR WALL INSULATION (MIN.)
□ R-19 (2x6 STUD) JOHNS MANSVILLE OR EQUAL

INTERIOR WALL INSULATION (MIN.)
□ R-13

FLOOR INSULATION (MIN.)
□ CONCRETE SLAB WITH R-19 FIBERGLASS INSULATION
□ PLYWOOD FLOOR WITH R-19 FIBERGLASS INSULATION

ROOF INSULATION (MIN.)
□ R-36 (EPDM) ''
□ R-36 CONTINUOUS R-X (STANDING SEAM)

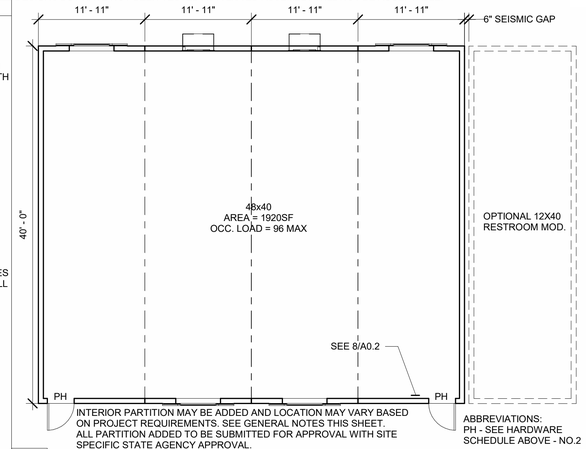
TABLE 1202.3
INSULATION FOR CONDENSATION CONTROL

CLIMATE ZONE	MINIMUM *R*-VALUE OF AIR-IMPERMEABLE INSULATION[a]
2B and 3B tile roof only	0 (none required)
1, 2A, 2B, 3A, 3B, 3C	R-5
4C	R-10
4A, 4B	R-15
5	R-20
6	R-25
7	R-30
8	R-35

a. Contributes to, but does not supersede, thermal resistance requirements for attic and roof assemblies in the *California Energy Code*.

3 ***Insulation Specs***

EMERGENCY EXIT AND PANIC HARDWARE: **INDICATE ON DRAWINGS AND SPECIFICATIONS COMPLIANCE WITH SFM STANDARD 12-10-3,SECTION 12-10-302**. (a) THE CROSS BAR SHALL EXTEND ACROSS NOT LESS THAN ONE-HALF THE WIDTH OF THE DOOR/GATE. (d) THE ENDS OF THE CROS-BAR SHALL BE CURVED, GUARDED OR OTHERWISE DESIGNED TO PREVENT CATCHING ON THE CLOTHING OF PERSONS DURING EGRESS. **PROVIDE CUT-SHEETS OF PANIC HARDWARE** PROVIDE THE ASSEMBLY DESIGN NUMBER FOR ALL FIRE-RATED CONSTRUCTION COMPONENTS. INSTALLATION DETAILS MUST BE COORDINATED WITH THE DESIGN NUMBERS. CUSTOM DESIGNS WHICH COMBINE COMPONENTS FROM VARIOUS DESIGNS BUT HAVE NOT BEEN TESTED AS A LISTED ASSEMBLY WILL NOT BE ACCEPTABLE.



INTERIOR PARTITION MAY BE ADDED AND LOCATION MAY VARY BASED ON PROJECT REQUIREMENTS. SEE GENERAL NOTES THIS SHEET.
ALL PARTITION ADDED TO BE SUBMITTED FOR APPROVAL WITH SITE SPECIFIC STATE AGENCY APPROVAL.

ABBREVIATIONS:
PH - SEE HARDWARE SCHEDULE ABOVE - NO.2

6 ***48x40 (Total Area 1920sf)***

Finish Schedule

Room Number	Flooring		Wall Finish				Ceiling		Notes
	Floor	Base	Front	Left	Rear	Right	Type	Ht.	
CLASSROOM	Carp.	4" TS	Tack	Tack	Tack	Tack	CP	8'-6"	
CLASSROOM w/ PH	Carp.	4" TS	Tack	Tack	Tack	Tack	CP	8'-6"	
SINGLE OCC.	SV	6" TS	FRP	FRP	FRP	FRP	CP	8'-0"	
SINGLE OCC.	SV	SC	FRP	FRP	FRP	FRP	GBP	8'-0"	

Abbreviations:

FLOORING
CARP: COMPLYING WITH GROUP 1; TYPE "A" OR TYPE "B"; CLASS 2; DENSITY 4600; DIRECT GLUE DOWN
SV: SHEET VINYL FLOORING
VCT: VINYL COMPOSITION TILE

BASE
4" TS: 4" TOP SET BASE
6" TS: 6" TOP SET BASE
6" SC: SELF COVE

WALLS
TACK: 1/2" VINYL TACKBOARD CLASS 1 OVER 1/2" GYPSUM BOARD BACKING
FRP: 1/8" FIBER REINFORCED PANEL OVER 1/2" WATER RESISTANT GYPSUM BOARD
GYP: 1/2" GYPSUM BOARD; TAPE; TEXTURE; PAINTED FINISH
PLY: 1/2" PLYWOOD FINISH
NF: NO FINISH SC: 6" SELF-COVE BASE

CEILING
CP: ACOUSTICAL LAY IN GRID CEILING PANELS
HC: 5/8" GYPSUM BOARD; TAPE; TEXTURE; PAINTED FINISH
GBP: 1/2" GYPSUM BOARD WASHABLE PANELS (PAINTED)

Finishes Notes

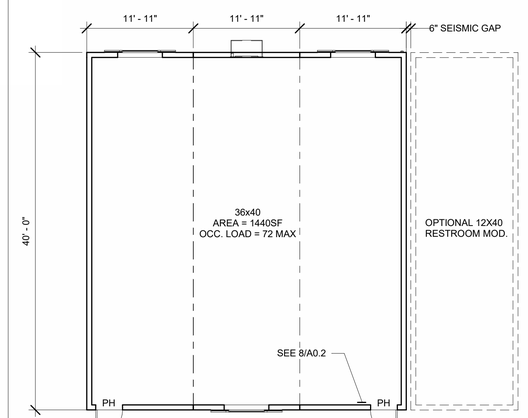
1. ALL FINISHES SHALL COMPLY WITH CBC, TITLE 19, AND C.F.C

2. PER ASTM D2047 ALL FLOORING WITH A COEFFICIENT OF FRICTION OF A MINIMUM OF 0.6 WILL BE CONSIDERED TO OBTAIN THE INTENT OF A SLIP RESISTANCE SURFACE.

3. FLOORING CONTRACTOR IS RESPONSIBLE FOR SUB-FLOORING PREPARATION. ALL PLYWOOD TO BE APA RATED AND COMPLY WITH PS1-19. PLYWOOD SURFACE TO BE CARPETED IS TO BE PLUGGED AND SANDED BY FLOORING CONTRACTOR. ALL DEFORMITIES OCCURRING DUE TO STANDARD CONSTRUCTION PRACTICES SHALL BE PLUGGED AND SANDED BY FLOOR CONTRACTOR. MATELINE JOINTS TO BE A MAX OF 1/8" AND SHALL BE PLUGGED AND SANDED BY FLOORING CONTRACTORS.

4. ALL CARPET AND FLOOR FINISH MUST COMPLY PER CBC SECTION 11B-302 FLOOR AND GROUND SURFACES. ALL CHANGES IN ELEVATION SHALL COMPLY WITH CBC SECTION 11B-303 CHANGES IN LEVELS

5 ***Finishes and Materials***



INTERIOR PARTITION MAY BE ADDED AND LOCATION MAY VARY BASED ON PROJECT REQUIREMENTS. SEE GENERAL NOTES THIS SHEET.
ALL PARTITION ADDED TO BE SUBMITTED FOR APPROVAL WITH SITE SPECIFIC STATE AGENCY APPROVAL.

ABBREVIATIONS:
PH - SEE HARDWARE SCHEDULE ABOVE - NO.2

4 ***36x40 (Total Area 1440sf)***

HARDWARE SCHEDULE

EXT CLASSROOM DOORS W/ PANIC — **HW1**

LOCKSET	SCHLAGE RIM CYLINDER 20022 C123 626 1-BITTED	Finish Alum or equal
EXIT DEVICE	VON DUPRIN AX -PA 99L-2 626	Finish 26D or equal
BUTTS	TAH FB179 4.5 X 4.5 NRP 626	Finish 689 or equal
CLOSER	NORTON 8501DA 689	Finish Alum or equal
WEATHER STRIP	HAGER 891SAV 3684	Finish Alum or equal
THRESHOLD	HAGER 413SA 36	Finish Alum or equal
DOOR BOTTOM	PEMCO 315CN 36	

EXT CLASSROOM DOORS — **HW2**

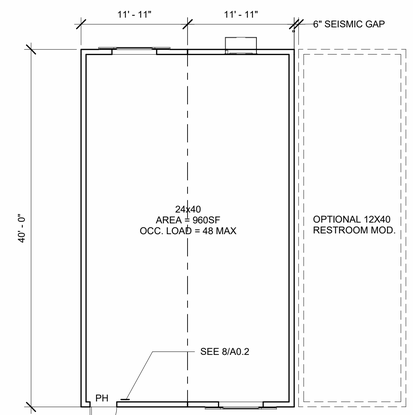
LOCKSET	TAH LHV 75 SAT 626	Finish 26D or equal
LOCKSET	SCHLAGE 23-065 626 W/ SPECIAL TAIL	Finish 26D or equal
BUTTS	TAH FB179 4.5 X 4.5 NRP 626	Finish 26D or equal
CLOSER	NORTON 8501DA 689	Finish 689 or equal
WEATHER STRIP	HAGER 891SAV 3684	Finish Alum or equal
THRESHOLD	HAGER 413SA 36	Finish Alum or equal
DOOR BOTTOM	PEMCO 315CN 36	Finish Alum or equal

INT BOYS & GIRLS RESTROOM DOORS — **HW3**

LOCKSET	TAH LHV 70 SAT 626	Finish 26D or equal
LOCKSET	SCHLAGE 23-065 626 W/ SPECIAL TAIL	Finish 26D or equal
BUTTS	TAH FB179 4.5 X 4.5 NRP 626	Finish 26D or equal
CLOSER	NORTON 8501DA 689	Finish 689 or equal
WEATHER STRIP	HAGER 891SAV 3684	Finish Alum or equal
THRESHOLD	HAGER 413SA 36	Finish Alum or equal
DOOR BOTTOM	PEMCO 315CN 36	Finish Alum or equal
DOOR PROTECTION PLATE	HAGER 190S 10 X 34 630	Finish Alum or equal

NOTE: ALL CLASSROOM DOORS SHALL BE LOCKABLE FROM INSIDE

7 ***Door Hardware***



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ALL PARTITION ADDED TO BE SUBMITTED FOR APPROVAL WITH SITE SPECIFIC STATE AGENCY APPROVAL.

ABBREVIATIONS:
PH - SEE HARDWARE SCHEDULE ABOVE - NO.2

1 ***24x40 (Total Area 960sf)***

15 ***120x40 (Total Area 4800sf)***

14 ***108x40 (Total Area 4320sf)***

13 ***96x40 (Total Area 3840sf)***

12 ***84x40 (Total Area 3360sf)***

11 ***72x40 (Total Area 2880sf)***

10 ***60x40 (Total Area 2400sf)***

PROJECT SPECIFIC STATE AGENCY APPROVAL

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REGISTERED PROFESSIONAL ENGINEER
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STRUCTURAL
STATE OF CALIFORNIA
RST#22088
02/16/24

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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
TYPICAL KEY PLAN AND SCHEDULES, GEN NOTES,

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE

SHEET NO.
A0.1
SHEET OF

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CHAPTER 11:COMMUNICATION ELEMENTS AND FEATURES

11B.702 Fire Alarm Systems
11B.702.1 General. Fire alarm systems shall have permanently installed audible and visible alarms complying with NFPA 72 (2022 edition)
except that the maximum allowable sound level of audible notification appliances complying with section 11B.4-3.2.1 of NFPA 72 shall have a sound level no more than 110 dB at the minimum hearing distance from the audible appliance. In addition, alarms in guest rooms required to provide communication features shall comply with NFPA 72 (2022 edition)

11B.703 Signs

11B.703.1 General. Signs shall comply with 703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.

11B.703.2 Raised Characters. Raised characters shall comply with 703.2 and shall be duplicated in braille complying with 703.3. Raised characters shall be installed in accordance with 703.4.

11B.703.2.1 Depth. Raised characters shall be 1/32 inch (0.8 mm) minimum above their background.

11B.703.2.2 Case. Characters shall be uppercase.

11B.703.2.3 Style. Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

11B.703.2.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 60 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

11B.703.2.5 Character Height. Character height measured vertically from the baseline of the character shall be 5/8 inch (15.9 mm) minimum and 2 inches (51 mm) maximum based on the height of the uppercase letter "I".

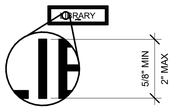


Figure 703.2.5 Height of Raised Characters

TABLE 11B-703.3.1
BRAILLE DIMENSIONS

MEASUREMENT RANGE	MINIMUM IN INCHES MAXIMUM IN INCHES
Dot base diameter	0.059 (1.5 mm) to 0.063 (1.6 mm)
Distance between two dots in the same cell[1]	*0.100 (2.5 mm)*
Distance between corresponding dots in adjacent cells[1]	*0.300 (7.6 mm)*
Dot height	0.025 (0.6 mm) to 0.037 (0.9 mm)
Distance between corresponding dots from one cell directly below[1]	0.395 (10 mm) to 0.400 (10.2 mm)

1. Measured center to center.

11B.703.2.6 Stroke Thickness for raised characters. Stroke thickness of the uppercase letter "I" shall be 15 percent maximum of the height of the character.

11B.703.2.7 Character Spacing. Character spacing shall be measured between the two closest 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 inch (3.2 mm) 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 inch (1.6 mm) minimum and 4 times the raised character stroke width maximum at the base of the cross sections, and 1/8 inch (3.2 mm) 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 inch (9.5 mm) minimum.

11B.703.2.8 Line Spacing. Spacing between the baselines of separate lines of raised characters within a message shall be 135 percent minimum and 170 percent maximum of the raised character height.

11B.703.3 Braille. Braille shall be contracted (Grade 2) and shall comply with 703.3 and 703.4.

11B.703.3.1 Dimensions and Capitalization. Braille dots shall have a domed or rounded shape and shall comply with Table 703.3.1. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, and acronyms.

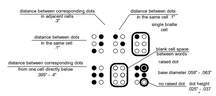


Figure 703.3.1 Braille Measurement

11B.703.3.2 Position. Braille shall be positioned below the corresponding text. If text is multi-lined, braille shall be placed below the entire text. Braille shall be separated 3/8 inch (9.5 mm) minimum from any other tactile characters and 3/8 inch (9.5 mm) minimum from raised borders and decorative elements.

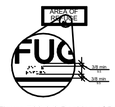
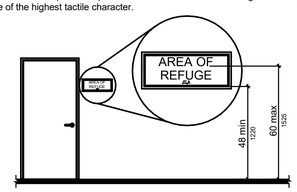


Figure 703.3.2 Position of Braille

11B.703.4 Installation Height and Location. Signs with tactile characters shall comply with 703.4.

11B.703.4.1 Height Above Finish Floor or Ground. Tactile characters on signs shall be located 48 inches (1220 mm) minimum above the finish floor or ground surface, measured from the baseline of the lowest braille character and 60 inches (1525 mm) maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.



48" min to baseline of lowest level of braille text.

Figure 703.4.1 Height of Tactile Characters Above Finish Floor or Ground

11B.703.4.2 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors 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 double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

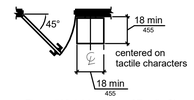


Figure 703.4.2 Location of Tactile Signs at Doors

11B.703.5 Visual Characters. Visual characters shall comply with 703.5.

11B.703.5.1 Finish and Contrast. Characters and their background shall have a non-glare finish. Characters shall contrast with their background with either light characters on a dark background or dark characters on a light background.

11B.703.5.2 Case. Characters shall be uppercase or lowercase or a combination of both.

11B.703.5.3 Style. Characters shall be conventional in form. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

11B.703.5.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 60 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

11B.703.5.5 Character Height. Minimum character height shall comply with Table 703.5.5. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach towards the sign. Character height shall be based on the uppercase letter "I".

11B.703.5.6 Height From Finish Floor or Ground. Visual characters shall be 40 inches (1015 mm) minimum above the finish floor or ground.

11B.703.5.7 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 10 percent minimum and 20 percent maximum of the height of the character.

11B.703.5.8 Character Spacing. Character spacing shall be measured between the two closest points of adjacent characters, excluding word spaces. Spacing between individual characters shall be 10 percent minimum and 35 percent maximum of character height.

11B.703.5.9 Line Spacing. Spacing between the baselines of separate lines of characters within a message shall be 135 percent minimum and 170 percent maximum of the character height.

11B.703.6 Pictograms. Pictograms shall comply with 703.6.

11B.703.6.1 Pictogram Field. Pictograms shall have a field height of 6 inches (150 mm) minimum. Characters and braille shall not be located in the pictogram field.

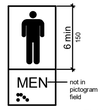


Figure 703.6.1 Pictogram Field dark-on-light.

OPENING
DETAIL REFERENCE
1 / S1 — DETAIL NUMBER / PAGE NUMBER
CONCRETE
MASONRY
SAND
EARTH

SECTION REFERENCE
1 / S1 — SECTION LABEL / PAGE NUMBER
CONTINUOUS WOOD MEMBER
WOOD BLOCKING
0.00' FIN. FLR. ELEV.
-1.00' BOTTOM OF FOOTING ELEVATION
S——S STEPPED FOOTING

THE "INTERNATIONAL SYMBOL FOR ACCESS FOR HEARING LOSS" PROPORTIONS SHALL BE APPROXIMATE CBC FIGURE 11B-703.7.2.4

"INFORMATION TO BE PROVIDED WHEN BUILDINGS ARE SITE LOCATED"

REQUIRED PER 11B-219 & 11B-706
(SEE FLOOR PLANS FOR MORE INFO)

NOTE: TEXT ON THIS SIGN IN VISUAL

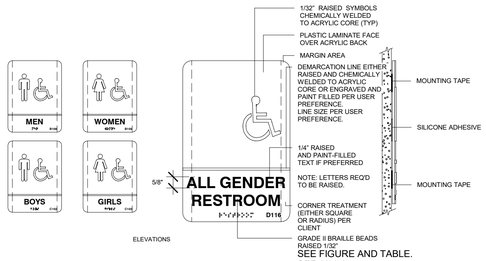
MAXIMUM OCCUPANCY
PERSONS

OCCUPANT LOAD SIGN REQUIRED PER DSA BU11-08.

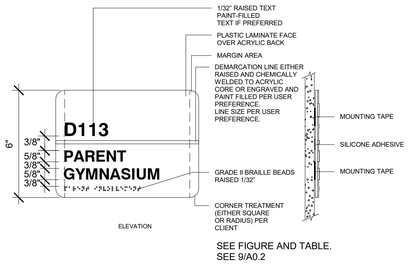
EVERY ROOM OR SPACE WHICH IS USED FOR ASSEMBLY, CLASSROOM, DINING OR SIMILAR PURPOSES HAVING AN OCCUPANT LOAD OF 50 OR MORE SHALL HAVE THE OCCUPANT LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY

7 *1" = 1'-0"*
Assistive Listening System Symbol

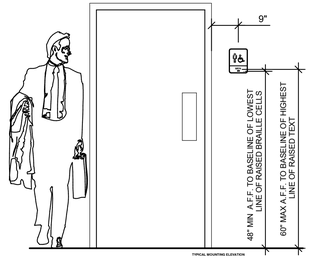
8 *1" = 1'-0"*
EQUIPMENT ANCHORAGE

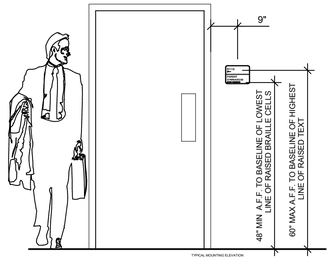


SEE FIGURE AND TABLE.
SEE 9/A0.2

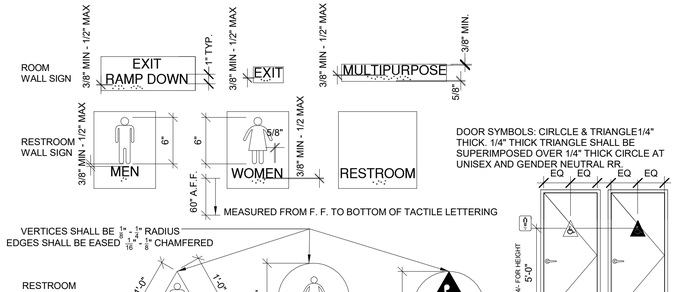


SEE FIGURE AND TABLE.
SEE 9/A0.2





4 *1/2" = 1'-0"*
Signage*(OFOI - UNO)*



1. CHARACTERS ON SIGNS SHALL BE RAISED 1/32 INCH MIN. AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2.
2. RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8 INCH AND A MAXIMUM OF 2 INCHES HIGH.
3. CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MINIMUM AND HAVE A NON-GLARE FINISH. 11B-703-5.1.
6. **11B-703.2.6 STROKE THICKNESS. STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.**

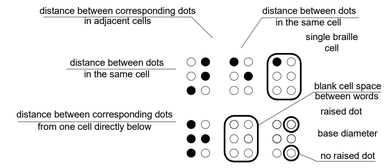
CALIFORNIA CONTRACTED BRAILLE SHALL BE USED WHENEVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS.
DOTS SHALL BE 1/10 INCH ON CENTERS IN EACH CELL WITH 2/10 INCH SPACE BETWEEN CELLS, MEASURED THE SECOND COLUMN OF DOTS IN THE FIRSTCELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL.
DOTS SHALL BE RAISED A MINIMUM OF 1/40 INCHES ABOVE THE BACKGROUND.
SEE FIGURE AND TABLE. SEE 2/A0.2

* **NOTE FOR UNISEX OR SINGLE USER RESTROOM DOOR SYMBOL:** THE COLOR OF THE TRIANGLE SHALL CONTRAST WITH THE COLOR OF THE CIRCLE SYMBOL, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND. THE COLOR OF THE CIRCLE SYMBOL SHALL CONTRAST WITH THE COLOR OF THE DOOR OR SURFACE ON WHICH THE COMBINED CIRCLE AND TRIANGLE SYMBOL IS MOUNTED, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND.

3 *1/4" = 1'-0"*
Signage and Notes

BRAILLE DIMENSIONS

MEASUREMENT RANGE	MINIMUM IN INCHES MAXIUMN IN INCHES
Dot base diameter	0.059 (1.5mm) to 0.063 (1.6mm)
Distance between two dots in the same cell[1]	0.100 (2.5 mm)
Distance between corresponding dots in adjacent cells[1]	0.300 (7.6 mm)
Dot height	0.025 (0.6 mm) to 0.037 (0.09mm)
Distance between corresponding dots from once cell directly below[1]	0.395 (10 mm) to 0.400 (10.2 mm)



9 *1/2" = 1'-0"*
BRAILLE DIMENSIONS

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ♦ CONSULTING ♦ PROJECT MGT
11590 W Bernardo Court, Suite 100
San Diego, CA 92127
www.rstavares.com

PROFESSIONAL STAMP

02/16/24

THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEVISED SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. ©

CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
SIGNAGE AND SYMBOLS

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE

SHEET NO.
A0.2
SHEET OF

6/15/2021 11:49:05 PM C:\Users\User\Documents\20093 - Aries, 24x40 PC - MathFile - Low Seismic_6.7_CESAR24D63.rvt

☐ DEFAULT CONCRETE MIX DESIGN FOR BELOW GRADE NORMAL WEIGHT CONCRETE

CONCRETE ELEMENT	MAXIMUM W/C'M RATIO	MINIMUM COMPRESSIVE STRENGTH, f'c (PSI)	CEMENTITIOUS MATERIALS - TYPES (ASTM C150)	MAX AGGREGATE SIZE	TARGET AIR CONTENT (%)	
					☐ CONCRETE NOT EXPOSED TO FREEZING AND THAWING CYCLES	☐ CONCRETE EXPOSED TO FREEZING AND THAWING CYCLES
FOUNDATION	0.45	4,500	TYPE V PLUS POZZOLAN OR SLAG CEMENT	1" +/- 1/4"	N/A	6
FOUNDATION VENTS & ACCESS WELLS	0.45	4,500	TYPE V PLUS POZZOLAN OR SLAG CEMENT	3/8"	N/A	7.5
				1/2"	N/A	7
				1" +/- 1/4"	N/A	6

NOTES:
(1) THE DEFAULT CONCRETE MIX DESIGN REQUIREMENTS MAY BE SELECTED AND USED FOR CONSTRUCTION PROVIDED THE PC DRAWINGS DO NOT REQUIRE A SITE-SPECIFIC GEOTECHNICAL REPORT THAT QUANTIFIES SULFATE CONTENT IN THE SOIL (IR PC-6, SECTION 5.5.1)
(2) DOCUMENTATION OF CONCRETE MATERIALS CHARACTERISTICS SHALL BE IN ACCORDANCE WITH ACI, SECTION 26.4.4
(3) CEMENT SHALL BE CERTIFIED PER TITLE 24, PART 2, SECTION 1910A.1
(4) THE FOUNDATION DESIGN HAS BEEN PREPARED USING A MINIMUM 28-DAY COMPRESSIVE CONCRETE STRENGTH (F'c) OF 3500 PSI

1 SCALE
DEFAULT CONCRETE MIX DESIGN

EXPOSURE CATEGORY: FREEZING AND THAWING (F)							
EXPOSURE CLASS		CONDITION	MAXIMUM W/CM	MINIMU M f'c	REQUIRED AIR CONTENT: MAX AGGREGATE SIZE (IN)	REQUIRED AIR CONTENT: TARGET AIR CONTENT (%)	LIMITS ON CEMENTITIOUS MATERIALS
☐	F0	CONCRETE NOT EXPOSED TO FREEZING-AND-THAWING CYCLES	0.55	3500	N/A	N/A	N/A
☐	F1	CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES WITH LIMITED EXPOSURE TO WATER	0.55	3500	3/8"	6	N/A
					1/2"	5.5	
					3/4"	5	
					1"	4.5	
					1 1/2"	4.5	
☐	F2	CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES WITH FREQUENT EXPOSURE TO WATER	0.45	4500	3/8"	7.5	N/A
					1/2"	7	
					3/4"	6	
					1"	6	
					1 1/2"	5.5	
☐	F3	CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES WITH FREQUENT EXPOSURE TO WATER AND EXPOSURE TO DEICING CHEMICALS	0.4	5000	3/8"	7.5	ACI 318, SECTION 26.4.2.2(b)
					1/2"	7	
					3/4"	6	
					1"	6	
					1 1/2"	5.5	

☐ A.1 WITH OUT GEOTECH REPORT
Maximum water/cement ratio of 0.45; minimum compressive strength of 4,500 pounds per square inch (psi); Type V cement plus pozzolan or slag cement complying with Footnote 7 of ACI table 19.3.2.1; prohibition of admixtures containing calcium chloride; and 4" max slump.

☐ A.2 Optional (Site-Specific) concrete Strength: WITH GEOTECH REPORT
When the PC drawings require a site-specific geotechnical report that quantifies sulfate content in the soil, the PC drawings shall require a concrete mix shall comply with one of the following based on the exposure class for each category from ACI 318 Table 19.3.2.1 below
***(The minimum compressive strength shall not be less than 3500 psi with 4" max Slump)**

EXPOSURE CATEGORY: SULFATE (S)								
EXPOSURE CLASS		CONDITION: WATER-SOLUBLE SULFATE (SO_4^{-2}) IN SOIL, PERCENT BY MASS	CONDITION: DISSOLVED SULFATE (SO_4^{-2}) IN WATER, PPM	MAXIMUM W/CM	MINIMUM f'c	CEMENTITIOUS MATERIALS TYPES: ASTM C150	ASTM C595	ASTM C1157	CALCIUM CHLORIDE ADMIXTURE
☐	S0	SO_4^{-2} < 0.10	SO_4^{-2} < 150	0.55	3500	NO TYPE RESTRICTION	NO TYPE RESTRICTION	NO TYPE RESTRICTION	NO RESTRICTION
☐	S1	0.10 ≤ SO_4^{-2} < 0.20	150 ≤ SO_4^{-2} < 1500 OR SEAWATER	0.50	4000	II	TYPES WITH (MS) DESIGNATION	MS	NO RESTRICTION
☐	S2	0.20 ≤ SO_4^{-2} ≤ 2.0	1500 ≤ SO_4^{-2} ≤ 10,000	0.45	4500	V	TYPES WITH (HS) DESIGNATION	HS	NOT PERMITTED
☐	S3 (OPTION 1)	SO_4^{-2} > 2.0	SO_4^{-2} > 10,000	0.45	4500	V PLUS POZZOLAN OR SLAG CEMENT	TYPES WITH (HS) DESIGNATION PLUS POZZOLAN OR SLAG CEMENT	HS PLUS POZZOLAN OR SLAG CEMENT	NOT PERMITTED
☐	S3 (OPTION 2)	SO_4^{-2} > 2.0	SO_4^{-2} > 10,000	0.50	5000	V	TYPES WITH (HS) DESIGNATION	HS	NOT PERMITTED

EXPOSURE CATEGORY: IN CONTACT WITH WATER (W)					
EXPOSURE CLASS		CONDITION	MAXIMUM W/CM	MINIMU M f'c	ADDITIONAL REQUIREMENTS
☐	W0	CONCRETE DRY IN SERVICE OR CONCRETE IN CONTACT WITH WATER AND LOW PERMEABILITY IS NOT REQUIRED	0.55	3500	N/A
☐	W1	CONCRETE IN CONTACT WITH WATER AND LOW PERMEABILITY IS REQUIRED	0.50	3500	AGGREGATES ARE NOT ALKALI-SILCA OR ALKALI-CARBONATE REACTIVE
☐	W2	CONCRETE IN CONTACT WITH WATER AND LOW PERMEABILITY IS REQUIRED	0.50	4000	AGGREGATES ARE NOT ALKALI-SILCA OR ALKALI-CARBONATE REACTIVE

EXPOSURE CATEGORY: CORROSION PROTECTION OF REINFORCEMENT						
EXPOSURE CLASS		CONDITION	MAXIMUM W/CM	MINIMU M f'c	MAXIMUM WATER-SOLUBLE CHLORIDE ION (CL) CONTENT IN CONCRETE, PERCENT BY WEIGHT OF CEMENT (NON-PRESTRESSED CONCRETE)	ADDITIONAL REQUIREMENTS
☐	C0	CONCRETE NOT EXPOSED TO MOISTURE OR TO AN EXTERNAL SOURCE OF	0.55	3500	1.00	N/A
☐	C1	CONCRETE EXPOSED TO MOISTURE BUT NOT TO AN EXTERNAL SOURCE OF CHLORIDES	0.55	3500	0.30	N/A
☐	C2	CONCRETE EXPOSED TO MOISTURE AND AN EXTERNAL SOURCE OF CHLORIDES (DEICING	0.40	5000	0.15	CONCRETE COVER PER ACI 318, SECTION 20.5

NOTES:
(1) THE ALTERNATIVE CONCRETE MIX DESIGN REQUIREMENTS MAY BE SELECTED AND USED FOR CONSTRUCTION PROVIDE A SITE-SPECIFIC GEOTECHNICAL REPORT HAS BEEN PROVIDED AND CONFIRMS ALL APPLICABLE EXPOSURE CLASS PER ACI 318, SECTION 19.3
(2) DOCUMENTATION OF CONCRETE MIXTURES CHARACTERISTICS SHALL BE IN ACCORDANCE WITH ACI, SECTION 26.4.4
(3) CEMENT SHALL BE CERTIFIED PER TITLE 24, PART 2, SECTION 1910A.1
(4) THE FOUNDATION DESIGN HAS BEEN PREPARED USING A MINIMUM 28-DAY COMPRESSIVE CONCRETE STRENGTH (F'c) OF 3500 PSI
(5) FOR SITE SPECIFIC LOCATIONS WITH MULTIPLE EXPOSURE CLASSES IDENTIFIED IN THE GEOTECHNICAL EXPLORATION REPORT, THE GREATER F'c ASSOCIATED WITH THE APPLICABLE EXPOSURE CLASS SHALL BE USED FOR CONSTRUCTION

SCALE
ALTERNATIVE CONCRETE MIX-DESIGN: SITE-SPECIFIC

NOT IN USE

6/15/2021 11:49:06 PM C:\Users\User\Documents\20083 -Arias_24x40 PC+_MainFile_Low Seismic_R7_CESAR2AD63.rvt

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

Application Number: 11-111111
DSA File Number:
School Name: 1
Increment Number:
School District: 1
Date Created: 2023-05-16 13:25:31

2022 CBC

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

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

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required	**GE (Geotechnical Engineer)** – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.
Periodic – Indicates that a periodic special inspection is required	**LOR (Laboratory of Record) –** Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.
Test – Indicates that a test is required	**PI (Project Inspector) –** Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.
	SI (Special Inspection) – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

C1. CAST-IN-PLACE CONCRETE

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

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

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

S/A3. WELDING:

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

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

	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	**a.** Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	**Continuous**	**SI**	**Table 1705A.2.1 Items 5a.1–4;** AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☑	**b.** Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	**Periodic**	**SI**	**1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6;** AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☑	**c.** Inspect welding of stairs and railing systems.	**Periodic**	**SI**	**1705A.2.1**; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.

	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A6. NONDESTRUCTIVE TESTING:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Ultrasonic	**Test**	**LOR**	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
☑	**b.** Magnetic Particle	**Test**	**LOR**	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.

1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
2. Concrete Batch Plant Inspection: Laboratory Verified Report Form DSA 291
3. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

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

2 DSA-103 CONCRETE FLOOR (STOCKPILE)

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

Application Number: 11-111111
DSA File Number:
School Name: 1
Increment Number:
School District: 1
Date Created: 2023-05-16 13:35:53

2022 CBC

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

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

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required	**GE (Geotechnical Engineer)** – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.
Periodic – Indicates that a periodic special inspection is required	**LOR (Laboratory of Record) –** Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.
Test – Indicates that a test is required	**PI (Project Inspector) –** Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.
	SI (Special Inspection) – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

Geotechnical Reports: Project does NOT have and does NOT require a geotechnical report

S1. GENERAL:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	**a.** Verify that: • Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. • Foundation excavations are extended to proper depth and have reached proper material. • Materials below footings are adequate to achieve the design bearing capacity.	**See Notes**	**PI**	Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12" depth under foundations is not permitted without a geotechnical report.

S2. SOIL COMPACTION AND FILL:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	**a.** Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.	**Continuous**	**LOR***	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.
☑	**b.** Compaction testing.	**Test**	**LOR***	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.

C1. CAST-IN-PLACE CONCRETE

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

C5. POST-INSTALLED ANCHORS:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	**a.** Inspect installation of post-installed anchors	**See Notes**	**SI***	**1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8** (See Appendix (end of this form) for exemptions). ACI 318-14 Sections 17.8 & 26.13. * May be performed by the project inspector when specifically approved by DSA.
☑	**b.** Test post-installed anchors.	**Test**	**LOR**	**1910A.5.** (See Appendix (end of this form) for exemptions.)

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

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

S/A3. WELDING:

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

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

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

	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):			
☑	**b.** Inspect single-pass fillet welds ≤ 5/16".	**Periodic**	**SI**	**Table 1705A.2.1 Item 5a.5;** AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
☑	**d.** Inspect floor and roof deck welds.	**Periodic**	**SI**	**1705A.2.2, Table 1705A.2.1 Item 5a.6;** AISC 360-16 (AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3.

	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A6. NONDESTRUCTIVE TESTING:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Ultrasonic	**Test**	**LOR**	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
☑	**b.** Magnetic Particle	**Test**	**LOR**	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.

1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
2. Concrete Batch Plant Inspection: Laboratory Verified Report Form DSA 291
3. Post-installed Anchors: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
4. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
5. Field Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

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

IF THERE IS A GEOTECHNICAL REPORT, THE GEOTECH ENGINEER SHOULD DO THE INSPECTION INSTEAD OF PROJECT INSPECTOR (PI).

1 DSA-103 CONCRETE FLOOR (CONCRETE FOUNDATION)

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
11590 W Bernardo Court, Suite 100
San Diego, CA 92127
www.rstavares.com

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
JIMMY D. FRANCISCO
No. 23380
03/31/24
CIVIL
STRUCTURAL
STATE OF CALIFORNIA
RST#22088
02/16/24

THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEVISED SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. ©

CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

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

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
DSA-103 T&I CONCRETE FLOORS

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE

SHEET NO.
A0.3
SHEET OF

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

Application Number:	School Name:	School District:
11-111111	1	1
DSA File Number:	**Increment Number:**	**Date Created:**
		2023-05-16 13:57:04

2022 CBC

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

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

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required	**GE (Geotechnical Engineer)** – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.
Periodic – Indicates that a periodic special inspection is required	**LOR (Laboratory of Record)** – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.
Test – Indicates that a test is required	**PI (Project Inspector)** – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.
	SI (Special Inspection) – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

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

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

S/A3. WELDING:

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

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

	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	**a.** Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	**Continuous**	**SI**	**Table 1705A.2.1 Items 5a.1–4;** AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☑	**b.** Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	**Periodic**	**SI**	**1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6;** AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☑	**c.** Inspect welding of stairs and railing systems.	**Periodic**	**SI**	**1705A.2.1**; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.

S/A6. NONDESTRUCTIVE TESTING:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	**a.** Ultrasonic	**Test**	**LOR**	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
☑	**b.** Magnetic Particle	**Test**	**LOR**	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.

1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
2. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

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

3 DSA-103 PLYWOOD FLOOR (STOCKPILE)

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

Application Number:	School Name:	School District:
11-111111	1	1
DSA File Number:	**Increment Number:**	**Date Created:**
		2023-05-16 14:08:48

2022 CBC

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

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

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required	**GE (Geotechnical Engineer)** – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.
Periodic – Indicates that a periodic special inspection is required	**LOR (Laboratory of Record)** – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.
Test – Indicates that a test is required	**PI (Project Inspector)** – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.
	SI (Special Inspection) – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

Geotechnical Reports: Project does NOT have and does NOT require a geotechnical report

S1. GENERAL:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	**a.** Verify that: • Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. • Foundation excavations are extended to proper depth and have reached proper material. • Materials below footings are adequate to achieve the design bearing capacity.	**See Notes**	**PI**	Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12" depth under foundations is not permitted without a geotechnical report.

S2. SOIL COMPACTION AND FILL:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	**a.** Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.	**Continuous**	**LOR***	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.
☑	**b.** Compaction testing.	**Test**	**LOR***	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.

C1. CAST-IN-PLACE CONCRETE

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

C5. POST-INSTALLED ANCHORS:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	**a.** Inspect installation of post-installed anchors	**See Notes**	**SI***	**1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8** (See Appendix (end of this form) for exemptions). ACI 318-14 Sections 17.8 & 26.13. * May be performed by the project inspector when specifically approved by DSA.
☑	**b.** Test post-installed anchors.	**Test**	**LOR**	**1910A.5.** (See Appendix (end of this form) for exemptions.)

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

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

S/A3. WELDING:

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

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

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

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

	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	**b.** Inspect single-pass fillet welds ≤ 5/16".	**Periodic**	**SI**	**Table 1705A.2.1 Item 5a.5**; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.

S/A6. NONDESTRUCTIVE TESTING:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	**a.** Ultrasonic	**Test**	**LOR**	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
☑	**b.** Magnetic Particle	**Test**	**LOR**	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.

1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
2. Concrete Batch Plant Inspection: Laboratory Verified Report Form DSA 291
3. Post-installed Anchors: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
4. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
5. Field Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

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

IF THERE IS A GEOTECHNICAL REPORT, THE GEOTECH ENGINEER SHOULD DO THE INSPECTION INSTEAD OF PROJECT INSPECTOR (PI).

2 DSA-103 PLYWOOD FLOOR (CONCRETE FOUNDATION)

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

Application Number:	School Name:	School District:
11-111111	11	11
DSA File Number:	**Increment Number:**	**Date Created:**
		2023-05-16 14:19:31

2022 CBC

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

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

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required	**GE (Geotechnical Engineer)** – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.
Periodic – Indicates that a periodic special inspection is required	**LOR (Laboratory of Record)** – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.
Test – Indicates that a test is required	**PI (Project Inspector)** – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.
	SI (Special Inspection) – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

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

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

S/A3. WELDING:

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

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

	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	**a.** Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	**Continuous**	**SI**	**Table 1705A.2.1 Items 5a.1–4;** AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☑	**b.** Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	**Periodic**	**SI**	**1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6;** AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☑	**c.** Inspect welding of stairs and railing systems.	**Periodic**	**SI**	**1705A.2.1**; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.

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

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	**a.** Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	**Continuous**	**SI**	**Table 1705A.2.1 Items 5a.1–4;** AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
☑	**b.** Inspect single-pass fillet welds ≤ 5/16".	**Periodic**	**SI**	**Table 1705A.2.1 Item 5a.5;** AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.

S/A6. NONDESTRUCTIVE TESTING:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	**a.** Ultrasonic	**Test**	**LOR**	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
☑	**b.** Magnetic Particle	**Test**	**LOR**	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.

1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
2. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
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1 DSA-103 PLYWOOD FLOOR (WOOD FOUNDATION)

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
11590 W Bernardo Court, Suite 100
San Diego, CA 92127
www.rstavares.com

PROFESSIONAL STAMP

02/16/24

THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEVISED SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. ©

CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

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

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
DSA-103 T&I PLYWOOD FLOORS

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE

SHEET NO.
A0.4
SHEET OF

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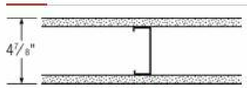
UL U419 OR UL U465 (OR EQ) TO BE USED FOR INT. STC RATING. WOOD STUD MAY BE USED ILO OF MTL STUD (WHEN NON-RATED WALLS ARE BEING APPLIED "X" BOARD IS NOT REQUIRED -STC RATINGS STILL APPLY)

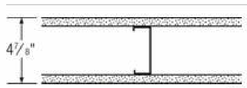


Fire Test
UL U419 or MEA 81-98-M
Steel Stud (Non-loadbearing)
Interior Partitions
Sound Test: RAL-TL11-125

Fire Rating	STC	Thickness (in.)
1 hr.	40	4-7/8"

- **Gypsum Board** - 5/8 in. thick gypsum board applied vertically or horizontally. - SHEETROCK Brand FIRECODE Core (Type X)
- **Steel Studs** - 3-5/8 in. wide min. 25 gauge steel studs @ max 24 in. OC - **362S125-18**
- **Gypsum Board** - 5/8 in. thick gypsum board applied vertically or horizontally. - SHEETROCK Brand FIRECODE Core (Type X)

Visit U419



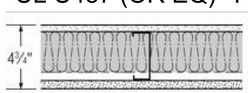
Fire Test
UL U465
Steel Stud (Non-loadbearing)
Interior Partitions
Sound Test: RAL-TL11-125

Fire Rating	STC	Thickness (in.)
1 hr.	40	4-7/8"

- **Gypsum Board** - 5/8 in. thick board, applied vertically, attached to studs with 1 in. long, Type S -12 screws, spaced 8 in. OC along the edges and 12 in. OC of the board - SHEETROCK Brand FIRECODE Core (Type X)
- **Steel Studs** - 3-5/8 in. wide min. 25 gauge steel. Attached to floor and ceiling with fasteners, 24 in. OC - **362S125-18**
- **Gypsum Board** - 5/8 in. thick gypsum board applied vertically or horizontally. - SHEETROCK Brand FIRECODE Core (Type X)

Visit U465

UL U457 (OR EQ) TO BE USED FOR EXT. STC RATING . WOOD STUD MAY BE USED ILO OF MTL STUD



Fire Test
UL U457
Steel Stud (Non-loadbearing)
Interior Partitions
Sound Test: USG-840222

Fire Rating	STC	Thickness (in.)
1 hr.	50	4-3/4"

- **Cement Board** - 1/2 thick board, square edge - DUROCK Brand Cement Board Next Gen
- **Steel Studs** - 3-5/8 in. wide by 1-1/4 in. deep, min. 20 gauge steel, max 16 in. OC - **362S125-30**
- **Batts and Blankets** - 3 in. mineral wool batt insulation
- **Gypsum Board** - 5/8 in. thick gypsum board applied vertically - SHEETROCK Brand FIRECODE Core (Type X)

Visit U457 U457

ACOUSTIC CONTROL- When the Pre-check building is site adapted, the building and site features need to comply with the CALGreen Code, Section 5.507.4 for the specific site location, and when PC building is place adjacent to another PC building, the adjoining wall section for interior sound transmission must meet the minimum requirement of a STC rating of 40 (per 2022 CALGreen Code, Section 507.4.3).

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

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Code: 2022 CBC
A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
CALGREEN SPEC'S

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE

SHEET NO.
A0.5
SHEET OF

6/15/2021 11:49:09 PM C:\Users\User\Documents\20093 - Aries, 24x40 PC - MainFile - Low Seismic_6.7_CES4R24D63.rvt

AIA California

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

Y | N/A | RESPON. PARTY

CHAPTER 3
GREEN BUILDING
SECTION 301 GENERAL

301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of $200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.

A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no banner will be used.

301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:

Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 *et seq.* for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance.

301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work.

301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC)
301.5 HEALTH FACILITIES. (see GBSC)

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

SECTION 303 PHASED PROJECTS

303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply.

303.1.1 Initial Tenant improvements. The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations.

ABBREVIATION DEFINITIONS:

HCD	Department of Housing and Community Development
BSC	California Building Standards Commission
DSA-SS	Division of the State Architect, Structural Safety
OSHPD	Office of Statewide Health Planning and Development
LR	Low Rise
HR	High Rise
AA	Additions and Alterations
N	New

CHAPTER 5
NONRESIDENTIAL MANDATORY MEASURES
DIVISION 5.1 PLANNING AND DESIGN

SECTION 5.101 GENERAL
5.101.1 SCOPE
The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.

SECTION 5.102 DEFINITIONS
5.102.1 DEFINITIONS
The following terms are defined in Chapter 2 *(and are included here for reference)*

CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire.

LOW-EMITTING AND FUEL EFFICIENT VEHICLES.
Eligible vehicles are limited to the following:

1. Zero emission vehicle (ZEV), enhanced advanced technology PZEV (enhanced AT ZEV) or transitional zero emission vehicles (TZEV) regulated under CCR, Title 13, Section 1962.
2. High-efficiency vehicles, regulated by U.S. EPA, bearing a fuel economy and greenhouse gas rating od 9 oe 10 as regulated under 40 CFR Section 600 Subpart D.

NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle" either in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to zero-emission vehicle standards.

TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors.

VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used primarily for the nonprofit work-related transportation of adults for the purpose of ridesharing.

Note: Source: Vehicle Code, Division 1, Section 668

ZEV. Any vehicle certified to zero-emission standards.

SECTION 5.106 SITE DEVELOPMENT
5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures:

5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control ordinance.

5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMPs.

1. Soil loss BMPs that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Scheduling construction activity during dry weather, when possible.
   b. Preservation of natural features, vegetation, soil, and buffers around surface waters.
   c. Drainage swales or lined ditches to control stormwater flow.
   d. Mulching or hydroseeding to stabilize disturbed soils.
   e. Erosion control to protect slopes.
   f. Protection of storm drain inlets (gravel bags or catch basin inserts).
   g. Perimeter sediment control (perimeter silt fence, fiber rolls).
   h. Sediment trap or sediment basin to retain sediment on site.
   i. Stabilized construction exits.
   j. Wind erosion control.
   k. Other soil loss BMPs acceptable to the enforcing agency.
2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Dewatering activities.
   b. Material handling and waste management.
   c. Building materials stockpile management.
   d. Management of washout areas (concrete, paints, stucco, etc.).
   e. Control of vehicle/equipment fueling to contractor's staging area.
   f. Vehicle and equipment cleaning performed off site.
   g. Spill prevention and control.
   h. Other housekeeping BMPs acceptable to the enforcing agency.

Y | N/A | RESPON. PARTY

5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF LAND. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale.

Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the larger common plan of development or sale must comply with the post-construction requirements detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit).

The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures. Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agency.

Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site development.

5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2

5.106.4.1 Bicycle parking. [BSC-CG] Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local ordinance, whichever is stricter.

5.106.4.1.1 Short-term bicycle parking. If the new project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.
Exception: Additions or alterations which add nine or less visitor vehicular parking spaces.

5.106.4.1.2 Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.3 For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a minimum of one bicycle parking facility.

5.106.4.1.4 For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.5 Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall be convenient from the street and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

Note: Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicycle Advocates.

5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.
5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

5.106.5.3 Electric vehicle (EV) charging. [N] Construction to provide electric vehicle infrastructure and facilitate electric vehicle charging shall comply with Section 5.106.5.3.1 and shall be provided in accordance with regulations in the California Building Code and the California Electrical Code.

Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcement agency substantiating the local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.
2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply with this code section

5.106.5.3.1 EV capable spaces.
[N] EV capable spaces shall be provided in accordance with Table 5.106.5.3.1 and the following requirements:
1. Raceways complying with the California Electrical Code and no less that 1-inch (25 mm) diameter shall be provided and shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the EV capable and into a suitable listed cabinet, box,enclosure or equivalent. A common raceway may be used to serve multiple EV charging spaces.
2. A service panel or subpanel (s) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS.
3. The electrical system and any on-site distribution transformers shall have sufficient capacity to supply full rated amperage at each EV capable space.
4. The service panel or subpanel circuit directory shall identify the reserved overcurrent protective devices space(s) as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

Note: A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any applicable minimum parking space requirements established by an enforcement agency. See vehicle Code Section 22511.2 for further details.

TABLE 5.106.5.3.1

TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES	NUMBER OF EVCS (EV CAPABLE SPACES PROVIDED WITH EVSE)^2
0-9	0	0
10-25	2	0
26-50	8	2
51-75	13	3
76-100	17	4
101-150	25	6
151-200	35	9
201 AND OVER	20% of total[1]	25% of EV capable spaces[1]

1. Where there is insufficient electrical supply.
2. The number of required EVCS (EV capable spaces provided with EVSE) in column 3 count towards the total number of required EV capable spaces shown in column 2.

5.106.5.3.2 Electric vehicle charging stations (EVCS)
EV capable spaces shall be provided with EVSE to create EVCS in the number indicated in Table 5.106.5.3.1. The EVCS required by Table 5.106.5.3.1 may be provided with EVSE in any combination of Level 2 and Direct Current Fast Charging (DCFC), except that at least one Level 2 EVSE shall be provided.

One EV charger with multiple connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.3.1 for each EV capable space is accumulatively supplied to the EV charger.

The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

Y | N/A | RESPON. PARTY

5.106.5.3.3 Use of automatic load management systems (ALMS).
ALMS shall be permitted for EVCS. When ALMS is installed, the required electrical load capacity specified in Section
5.106.5.3.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs.

5.106.5.3.4 Accessible EVCS.
When EVSE is installed, accessible EVSC shall be provided in accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.
Note: For EVCS signs, refer to Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

5.106.5.4 Electric Vehicle (EV) charging: medium-duty and heavy-duty. [N]
Construction shall comply with section 5.106.5.4.1 to facilitate future installation of electric vehicle supply equipment (EVSE). Construction for warehouses, grocery stores and retail stores with planned off-street loading spaces shall also comply with Section 5.106.5.4.1 for future installation of medium- and heavy-duty EVSE.
Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

When EVSE(s) is/are installed, it shall be in accordance with the *California Building Code*, the *California Electrical Code* and as follows:

5.106.5.4.1 Electric vehicle charging readiness requirements for warehouse, grocery stores and retail stores with planned off-street loading spaces.
[N] In order to avoid future demolition when adding EV charging supply and distribution equipment, spare raceways(s) or busway(s) and adequate capacity for transformers(s), service panels(s) or subpanel(s) shall be installed at the time of construction in accordance with the California Electrical Code. Construction plans and specifications shall include but are not limited to, the following:
1. The transformer, main service equipment and subpanel shall meet the minimum power requirement in Table 5.106.5.4.1 to accommodate the dedicated branch circuits for the future installation of EVSE.
2. The construction documents shall indicate on or more location(s) convenient to the planned offstreet loading space(s) reserved for medium-and heavy-duty ZEV charging cabinets and charging dispensers, and a pathway reserved for routing of conduit from the termination of the raceway(s) or busway(s) to the charging cabinet(s) and dispenser(s) as shown in Table 5.106.5.4.1
3. Raceway(s) or busway(s) originating at a main service panel or a subpanel(s) serving the area where potential future medium-and heavy-duty EVSE will be located and shall terminate in close proximity to the potential future location of the charging equipments for medium- and heavy-duty vehicles.
4. The raceway(s) or busway(s) shall be sufficient size to carry the minimum additional system load to the future location of the charging for medium- and heavy-duty ZEVs as shown in Table 5.106.5.4.1.

TABLE 5.106.5.4.1 RACEWAY CONDUIT AND PANEL POWER REQUIREMENTS FOR MEDIUM- AND HEAVY-DUTY EVSE [N]

BUILDING TYPE	BUILDING SIZE (SQ. FT.)	NUMBER OF OFF-STREET LOADING SPACES	ADDITIONAL CAPACITY REQUIRED (KVA) FOR RACEWAY & BUSWAY AND TRANSFORMER & PANEL
Grocery	10,000 to 90,000	1 or 2	200
		3 or Greater	400
	Greater than 90,000	1 or Greater	400
Retail	10,000 to 135,000	1 or 2	200
		3 or Greater	400
	Greater than 135,000	1 or Greater	400
Warehouse	20,000 to 256,000	1 or 2	200
		3 or Greater	400
	Greater than 256,000	1 or Greater	400

5.106.8 LIGHT POLLUTION REDUCTION. [N]. I Outdoor lighting systems shall be designed and installed to comply with the following:

1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and
2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8);
3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) and
4. Allowable BUG ratings not exceeding those shown in Table 5.106.8, [N] or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]

1. Luminaires that qualify as exceptions in Sections 130.2 (b) and 140.7 of the California Energy Code.
2. Emergency lighting.
3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6.
4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.
5. Luminaires with less than 6,200 initial luminaire lumens.

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS[1,2]

ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
MAXIMUM ALLOWABLE BACKLIGHT RATING [3]					
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	B3	B4	B4
Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	B3	B3
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	B0	B0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
For area lighting [3]	N/A	U0	U0	U0	U0
For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR
MAXIMUM ALLOWABLE GLARE RATING [3] (G)					
MAXIMUM ALLOWABLE GLARE RATING [3] (G)	N/A	G1	G2	G3	G4
MAXIMUM ALLOWABLE GLARE RATING [3] (G)	N/A	G0	G1	G1	G2
MAXIMUM ALLOWABLE GLARE RATING [3] (G)	N/A	G0	G0	G1	G1
MAXIMUM ALLOWABLE GLARE RATING [3] (G)	N/A	G0	G0	G0	G1

1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the *California Energy Code* and Chapter 10 of the *California Administrative Code.*

2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section.

3. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaries located in these areas shall meet *U*-value limits for "all other outdoor lighting"

5.106.8.1 Facing- Backlight
Luminaries within 2MH of a property line shall be oriented so that the nearest property line is behind the fixture, and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point of that property line.
Exception: Corners. If two property lines (or two segments of the same property line) have equidistant point to the luminaire, then the luminaire may be oriented so that the intersection of the two lines (the corner) is directly behind the luminaire. The luminaire shall still use the distance to the nearest points(s) on the property lines to determine the required backlight rating.

5.106.8.2 Facing-Glare.
For luminaires covered by 5.106.8.1, if a property line also exists within or extends into the front hemisphere within 2MH of the luminaire then the luminaire shall comply with the more stringent glare rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point on the nearest property line within the front hemisphere.

Note: [N]
1.See also *California Building Code*, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.
2.Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1, *California Energy Code* Tables 130.2-A and 130.2-B.
3. Refer to the *California Building Code* for requirements for additions and alterations.

5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

1. Swales.
2. Water collection and disposal systems.
3. French drains.
4. Water retention gardens.
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.
Exception: Additions and alterations not altering the drainage path.

5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.

Exceptions: Surface parking area covered by solar photovoltaic shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.

5.106.12.2 Landscape areas. Shade tress plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.

Exceptions: Playfields for organized sport activity are not included in the total area calculation.

5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.

Exceptions:
1. Walks, hardscape areas covered by solar photovoltaic shade structures or shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.
2. Designated and marked play areas of organized sport activity are not included in the total area calculation.

DIVISION 5.2 ENERGY EFFICIENCY
SECTION 5.201 GENERAL
5.201.1 Scope [BSC-CG]. *California Energy Code [DSA-SS].* For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION
SECTION 5.301 GENERAL
5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.

SECTION 5.302 DEFINITIONS
5.302.1 Definitions. The following terms are defined in Chapter 2 *(and are included here for reference)*

EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which ae two major influences on the amount of water that needs to be applied to the landscape.

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority Having Jurisdiction.

RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water treated to remove waste matter attaining a quality that is suitable to use the water again.

SUBMETER. [HCD 1] A secondary device beyond a meter that measures water consumption of an individual rental unit within a multiunit residential structure or mixed-use residential and commercial structure. (See Civic Code Section 1954.202 (g) and Water code Section 517 for additional details.)

WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MWELO).

DISCLAIMER: *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

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PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
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PROFESSIONAL STAMP

02/16/24

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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
CAL GREEN CHECKLIST

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE

SHEET NO.
A0.6
SHEET OF

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2023)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

SECTION 5.303 INDOOR WATER USE

5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections 503.1.1 and 503.1.2.

5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows:

1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.
2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:
   a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).
   b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s).
   c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.

5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

5.303.3.1 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.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

5.303.3.2 Urinals.
5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.

5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.

5.303.3.3 Showerheads. [BSC-CG]
5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.
Note: A hand-held shower shall be considered a showerhead.

5.303.3.4 Faucets and fountains.

5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.

5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.

5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than1.8 gallons per minute/20 [rim space (inches) at 60 psi].

5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle.

5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi].

Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.

5.303.3.4.6 Pre-rinse spray value
When installed, shall meet the requirements in the *California Code of Regulations*, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 (d)(7), and shall be equipped with an integral automatic shutoff.

FOR REFERENCE ONLY: The following table and code section have been reprinted from the *California Code of Regulations*, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section 1605.3 (h)(4)(A).

TABLE H-2

STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALUES MANUFACTURED ON OR AFTER JANUARY 28, 2019

PRODUCT CLASS [spray force in ounce force (ozf)]	MAXIMUM FLOW RATE (gpm)
Product Class 1 (≤ 5.0 ozf)	1.00
Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf)	1.20
Product Class 3 (> 8.0 ozf)	1.28

5.303.4 COMMERCIAL KITCHEN EQUIPMENT.

5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water.
Note: This code section does not affect local jurisdiction authority to prohibit or require disposer installation.

5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building.

5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the *California Plumbing Code*, and shall meet the applicable standards referenced in Table 1701.1 of the *California Plumbing Code* and in Chapter 6 of this code.

SECTION 5.304 OUTDOOR WATER USE

5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

Notes:
1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2.
2. MWELO and supporting documents, including a water budget calculator, are available at: https://www.water.ca.gov/.

5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, *California Code of Regulations*, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.

Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.

5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet.

5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.401 GENERAL

5.401.1 SCOPE. The provisions of this chapter shall outline means of achieving material conservation and resource efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting.

SECTION 5.402 DEFINITIONS

5.402.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust a damper.

BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities.

BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements.

ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food soiled paper waste that is mixed in with food waste.

TEST. A procedure to determine quantitative performance of a system or equipment

SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT

5.407.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent.

5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods.

5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.

5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:

5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:

1. An installed awning at least 4 feet in depth.
2. The door is protected by a roof overhang at least 4 feet in depth.
3. The door is recessed at least 4 feet.
4. Other methods which provide equivalent protection.

5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.

SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.

5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that:

1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken.
4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.

Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.

Exceptions to Sections 5.408.1.1 and 5.408.1.2:

1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.

5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency.

5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

Notes:

1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-Resources-List-Folder/CALGreen may be used to assist in documenting compliance with the waste management plan.
2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents.

Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/universalwaste/

5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.

Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.

Notes:

1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material.
2. For a map of know pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov)

SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS

5.410.1 RECYCLING BY OCCUPANTS. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section.

5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site.

Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space floor area.

5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the *Public Resources Code*. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).

Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site.

5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and L-occupancies that are not regulated y the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 shall apply.

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements

Commissioning requirements shall include:

1. Owner's or Owner representative's project requirements.
2. Basis of design.
3. Commissioning measures shown in the construction documents.
4. Commissioning plan.
5. Functional performance testing.
6. Documentation and training.
7. Commissioning report.

Exceptions:

1. Unconditioned warehouses of any size.
2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses.
3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1.
4. Open parking garages of any size, or open parking garage areas, of any size, within a structure.

Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not provide heating and or air conditioning.

Informational Notes:

1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for qualifications of commissioning personnel. AC 476 des not certify individuals to conduct functional performance tests or to adjust and balance systems.
2. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the *California Energy Code*.

5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following:
1. Environmental and sustainability goals.
2. Building sustainable goals.
3. Indoor environmental quality requirements.
4. Project program, including facility functions and hours of operation, and need for after hours operation.
5. Equipment and systems expectations.
6. Building occupant and operation and maintenance (O&M) personnel expectations.

5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse system.

5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:
1. General project information.
2. Commissioning goals.
3. Systems to be commissioned. Plans to test systems and components shall include:
   a. An explanation of the original design intent.
   b. Equipment and systems to be tested, including the extent of tests.
   c. Functions to be tested.
   d. Conditions under which the test shall be performed.
   e. Measurable criteria for acceptable performance.
4. Commissioning team information.
5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.

5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.

5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements in *California Code of Regulations* (CCR), Title 8, Section 5142, and other related regulations.

5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:
1. Site information, including facility description, history and current requirements.
2. Site contact information.
3. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.
4. Major systems.
5. Site equipment inventory and maintenance notes.
6. A copy of verifications required by the enforcing agency or this code.
7. Other resources and documentation, if applicable.

5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:
1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces).
2. Review and demonstration of servicing/preventive maintenance.
3. Review of the information in the Systems Manual.
4. Review of the record drawings on the system/equipment.

5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.

5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.

5.410.4.2 (Reserved)

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific systems.

5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse systems.

5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the enforcing agency.

5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.

5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.

DIVISION 5.5 ENVIRONMENTAL QUALITY

SECTION 5.501 GENERAL

5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.

SECTION 5.502 DEFINITIONS

5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route.

A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting adjustments have been made.

1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32^0 Fahrenheit.

COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I–joists or finger–jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a).

Note: See CCR, Title 17, Section 93120.1.

DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.).

DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity.

ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the *California Electrical Code*, off-road, self-propelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included.

ELECTRIC VEHICLE CHARGING STATION(S) (EVCS)). One or more spaces intended for charging electric vehicles.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time of period of interest.

EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections.

FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections.

GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one.

GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14.

HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter.

LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999.

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundredths of a gram (g O^3/g ROC).

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).

PSIG. Pounds per square inch, guage.

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.

SCHRADER ACCESS VALVES. Access fittings with a valve core installed.

SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter.

SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units.

VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a)

Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question.

SECTION 5.503 FIREPLACES

5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.

5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.

SECTION 5.504 POLLUTANT CONTROL

5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992 Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.

5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.

DISCLAIMER: *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

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PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ★ CONSULTING ★ PROJECT MGT
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www.rstavares.com

PROFESSIONAL STAMP

02/16/24

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CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

CAL GREEN CHECKLIST

PROJECT NUMBER

22088

DRAWN BY

rMc/SC

CHECKED BY

RH/RT

DATE

SHEET NO.

A0.7

SHEET OF

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (January 2023)

AIA California

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER OWNER, CONTRACTOR, INSPECTOR ETC.)

5.504.4 FINISH MATERIAL POLLUTANT CONTROL.)LQLVK PDWHULDOV VKDOO FRPSO\ ZLWK 6HFWLRQV

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5.504.4.3 Paints and coatings. $UFKLWHFWXUDO SDLQWV DQG FRDWLQJV VKDOO FRPSO\ ZLWK 92& OLPLWV LQ 7DEOH RI WKH $5% $UFKLWHFWXUDO &RDWLQJV 6XJJHVWHG &RQWURO 0HDVXUH DV VKRZQ LQ 7DEOH XQOHVV PRUH VWULQJHQW ORFDO OLPLWV DSSO\

5.504.4.3.1 Aerosol Paints and coatings. $HURVRO SDLQWV DQG FRDWLQJV VKDOO PHHW WKH 3:0,5 /LPLWV IRU 52& LQ 6HFWLRQ D DQG RWKHU UHTXLUHPHQWV LQFOXGLQJ SURKLELWLRQV RQ XVH RI FHUWDLQ WR[LF FRPSRXQGV DQG R]RQH GHSOHWLQJ VXEVWDQFHV OLPLWV RI 5HJXODWLRQ 5XOH

7$%/(˘ ˘ &2$7,1* 92& /,0,7	
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COATING CATEGORY	**CURRENT VOC LIMIT**
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%,780,1286 522) &2$7,1*6	
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5.504.4.3.2 Verification. 9HULILFDWLRQ RI FRPSOLDQFH ZLWK WKLV VHFWLRQ VKDOO EH SURYLGHG DW WKH UHTXHVW RI WKH HQIRUFLQJ DJHQF\ 'RFXPHQWDWLRQ PD\ LQFOXGH EXW LV QRW OLPLWHG WR 0DQXIDFWXUHU V SURGXFW VSHFLILFDWLRQ)LHOG YHULILFDWLRQ RI RQ VLWH SURGXFW FRQWDLQHUV

5.504.4.4 Carpet Systems. $OO FDUSHW LQVWDOOHG LQ WKH EXLOGLQJ LQWHULRU VKDOO PHHW WKH UHTXLUHPHQWV RI WKH &DOLIRUQLD 'HSDUWPHQW RI 3XEOLF +HDOWK 6WDQGDUG 0HWKRG IRU WKH 7HVWLQJ DQG (YDOXDWLRQ RI 9RODWLOH 2UJDQLF &KHPLFDO (PLVVLRQV 6RXUFHV 8VLQJ (QYLURQPHQWDO &KDPEHUV 9HUVLRQ -DQXDU\ (PLVVLRQ WHVWLQJ PHWKRG IRU &DOLIRUQLD 6SHFLILFDWLRQ

6HH &DOLIRUQLD 'HSDUWPHQW RI 3XEOLF +HDOWK V ZHEVLWH IRU FHUWLILFDWLRQ SURJUDPV DQG WHVWLQJ ODEV KWWSV ZZZ FGSK FD JRY 3URJUDPV &&'3+3 '(2'& (+/% ,$4 3DJHV 92& DVS[PDWHULDO

5.504.4.4.1 Carpet cushion. $OO FDUSHW FXVKLRQ LQVWDOOHG LQ WKH EXLOGLQJ LQWHULRU VKDOO PHHW WKH UHTXLUHPHQWV RI WKH &DOLIRUQLD 'HSDUWPHQW RI 3XEOLF +HDOWK 6WDQGDUG 0HWKRG IRU WKH 7HVWLQJ DQG (YDOXDWLRQ RI 9RODWLOH 2UJDQLF &KHPLFDO (PLVVLRQV 6RXUFHV 8VLQJ (QYLURQPHQWDO &KDPEHUV 9HUVLRQ -DQXDU\ (PLVVLRQ WHVWLQJ PHWKRG IRU &DOLIRUQLD 6SHFLILFDWLRQ

6HH &DOLIRUQLD 'HSDUWPHQW RI 3XEOLF +HDOWK V ZHEVLWH IRU FHUWLILFDWLRQ SURJUDPV DQG WHVWLQJ ODEV KWWSV ZZZ FGSK FD JRY 3URJUDPV &&'3+3 '(2'& (+/% ,$4 3DJHV 92& DVS[PDWHULDO

5.504.4.4.2 Carpet adhesive. $OO FDUSHW DGKHVLYH VKDOO PHHW WKH UHTXLUHPHQWV RI 7DEOH

5.504.4.5 Composite wood products. +DUGZRRG SO\ZRRG SDUWLFOHERDUG DQG PHGLXP GHQVLW\ ILEHUERDUG FRPSRVLWH ZRRG SURGXFWV XVHG RQ WKH LQWHULRU RU H[WHULRU RI WKH EXLOGLQJV VKDOO PHHW WKH UHTXLUHPHQWV IRU IRUPDOGHK\GH DV VSHFLILHG LQ $5% V $LU 7R[LFV &RQWURO 0HDVXUH $7&0 IRU &RPSRVLWH :RRG DV VKRZQ LQ 7DEOH 7KRVH PDWHULDOV QRW H[HPSWHG XQGHU WKH $7&0 PXVW PHHW WKH VSHFLILHG HPLVVLRQ OLPLWV DV VKRZQ LQ 7DEOH

5.504.4.5.3 Documentation. 9HULILFDWLRQ RI FRPSOLDQFH ZLWK WKLV VHFWLRQ VKDOO EH SURYLGHG DV UHTXHVWHG E\ WKH HQIRUFLQJ DJHQF\ 'RFXPHQWDWLRQ VKDOO LQFOXGH DW OHDVW RQH RI WKH IROORZLQJ

2WKHU PHWKRGV DFFHSWDEOH WR WKH HQIRUFLQJ DJHQF\

7$%/(˘ ˘)250$/'(+<'(/,0,76	
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PRODUCT	**CURRENT LIMIT**
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+$5':22' 3/<:22' &20326,7(&25(	
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7+,1 0(',80 '(16,7<),%(5%2$5' +$6 $ 0$;,080 7+,&.1(66 2)

5.504.4.6 Resilient flooring systems. :KHUH UHVLOLHQW IORRULQJ LV LQVWDOOHG DW OHDVW RI IORRU DUHD UHFHLYLQJ UHVLOLHQW IORRULQJ VKDOO PHHW WKH UHTXLUHPHQWV RI WKH &DOLIRUQLD 'HSDUWPHQW RI 3XEOLF +HDOWK 6WDQGDUG 0HWKRG IRU WKH 7HVWLQJ DQG (YDOXDWLRQ RI 9RODWLOH 2UJDQLF &KHPLFDO (PLVVLRQV 6RXUFHV 8VLQJ (QYLURQPHQWDO &KDPEHUV 9HUVLRQ -DQXDU\ (PLVVLRQ WHVWLQJ

6HH &DOLIRUQLD 'HSDUWPHQW RI 3XEOLF +HDOWK V ZHEVLWH IRU FHUWLILFDWLRQ SURJUDPV DQG WHVWLQJ ODEV KWWSV ZZZ FGSK FD JRY 3URJUDPV &&'3+3 '(2'& (+/% ,$4 3DJHV 92& DVS[

5.504.4.6.1 Verification of compliance. 'RFXPHQWDWLRQ VKDOO EH SURYLGHG YHULI\LQJ WKDW UHVLOLHQW IORRULQJ PDWHULDOV PHHW WKH SROOXWDQW HPLVVLRQ OLPLWV

5.504.4.7 Thermal insulation &RPSO\ ZLWK WKH UHTXLUHPHQWV RI WKH &DOLIRUQLD 'HSDUWPHQW RI 3XEOLF +HDOWK 6WDQGDUG 0HWKRG IRU WKH 7HVWLQJ DQG (YDOXDWLRQ RI 9RODWLOH 2UJDQLF &KHPLFDO (PLVVLRQV IURP ,QGRRU 6RXUFHV 9HUVLRQ -DQXDU\ -DQXDU\ (PLVVLRQ WHVWLQJ PHWKRG IRU &DOLIRUQLD 6SHFLILFDWLRQ 6HH &DOLIRUQLD 'HSDUWPHQW RI 3XEOLF +HDOWK V ZHEVLWH IRU FHUWLILFDWLRQ SURJUDPV DQG WHVWLQJ ODEV KWWSV ZZZ FGSK FD JRY 3URJUDPV &&'3+3 '(2'& (+/% ,$4 3DJHV 92& DVS[PDWHULDO

5.504.4.7.1 Verification of compliance. 'RFXPHQWDWLRQ VKDOO EH SURYLGHG YHULI\LQJ WKDW WKHUPDO LQVXODWLRQ PDWHULDOV PHHW WKH SROOXWDQW HPLVVLRQ OLPLWV

5.504.4.8 Acoustical ceiling and wall panels. &RPSO\ ZLWK WKH UHTXLUHPHQWV RI WKH &DOLIRUQLD 'HSDUWPHQW RI 3XEOLF +HDOWK 6WDQGDUG 0HWKRG IRU WKH 7HVWLQJ DQG (YDOXDWLRQ RI 9RODWLOH 2UJDQLF &KHPLFDO (PLVVLRQV IURP ,QGRRU 6RXUFHV 9HUVLRQ -DQXDU\ (PLVVLRQ WHVWLQJ PHWKRG IRU &DOLIRUQLD 6SHFLILFDWLRQ 6HH &DOLIRUQLD 'HSDUWPHQW RI 3XEOLF +HDOWK V ZHEVLWH IRU FHUWLILFDWLRQ

5.504.4.8.1 Verification of compliance. 'RFXPHQWDWLRQ VKDOO EH SURYLGHG YHULI\LQJ WKDW DFRXVWLFDO ILQLVK PDWHULDOV PHHW WKH SROOXWDQW HPLVVLRQ OLPLWV

5.504.5.3 Filters. ,Q PHFKDQLFDOO\ YHQWLODWHG EXLOGLQJV SURYLGH UHJXODUO\ RFFXSLHG DUHDV RI WKH EXLOGLQJ ZLWK DLU ILOWUDWLRQ PHGLD IRU RXWVLGH DQG UHWXUQ DLU WKDW SURYLGHV DW OHDVW D 0LQLPXP (IILFLHQF\ 5HSRUWLQJ 9DOXH 0(59 RI 0(59 ILOWHUV VKDOO EH LQVWDOOHG SULRU WR RFFXSDQF\ DQG UHFRPPHQGDWLRQV IRU PDLQWHQDQFH ZLWK ILOWHUV RI WKH VDPH YDOXH VKDOO EH LQFOXGHG LQ WKH RSHUDWLRQ DQG PDLQWHQDQFH PDQXDO

Exceptions: ([LVWLQJ PHFKDQLFDO HTXLSPHQW

5.504.5.3.1 Labeling. ,QVWDOOHG ILOWHUV VKDOO EH FOHDUO\ ODEHOHG E\ WKH PDQXIDFWXUHU LQGLFDWLQJ WKH 0(59 UDWLQJ

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. :KHUH RXWGRRU DUHDV DUH SURYLGHG IRU VPRNLQJ SURKLELW VPRNLQJ ZLWKLQ IHHW RI EXLOGLQJ HQWULHV RXWGRRU DLU LQWDNHV DQG RSHUDEOH ZLQGRZV DQG ZLWKLQ WKH EXLOGLQJ DV DOUHDG\ SURKLELWHG E\ RWKHU ODZV RU UHJXODWLRQV RU DV HQIRUFHG E\ RUGLQDQFHV UHJXODWLRQV RU SROLFLHV RI DQ\ FLW\ FRXQW\ &DOLIRUQLD &RPPXQLW\ &ROOHJH FDPSXV RI WKH 8QLYHUVLW\ RI &DOLIRUQLD ZKLFKHYHU DUH PRUH VWULQJHQW :KHQ RUGLQDQFHV UHJXODWLRQV RU SROLFLHV DUH QRW LQ SODFH SRVW VLJQDJH WR LQIRUP EXLOGLQJ RFFXSDQWV RI WKH SURKLELWLRQV

SECTION 5.505 INDOOR MOISTURE CONTROL

5.505.1 INDOOR MOISTURE CONTROL %XLOGLQJV VKDOO PHHW RU H[FHHG WKH SURYLVLRQV RI &DOLIRUQLD %XLOGLQJ &RGH &&5 7LWOH 3DUW 6HFWLRQV 9HQWLODWLRQ DQG &KDSWHU ([WHULRU :DOOV)RU DGGLWLRQDO PHDVXUHV 6HFWLRQ RI WKLV FRGH

SECTION 5.506 INDOOR AIR QUALITY

5.506.1 OUTSIDE AIR DELIVERY.)RU PHFKDQLFDOO\ RU QDWXUDOO\ YHQWLODWHG VSDFHV LQ EXLOGLQJV PHHW WKH PLQLPXP UHTXLUHPHQWV RI 6HFWLRQ 5HTXLUHPHQWV IRU 9HQWLODWLRQ RI WKH &DOLIRUQLD (QHUJ\ &RGH ZKLFKHYHU LV PRUH VWULQJHQW DQG 'LYLVLRQ &DSWHU RI &&5 7LWOH

5.506.2 CARBON DIOXIDE (CO_2) MONITORING.)RU EXLOGLQJV RU DGGLWLRQV HTXLSSHG ZLWK GHPDQG FRQWURO YHQWLODWLRQ CO_2 VHQVRUV DQG YHQWLODWLRQ FRQWUROV VKDOO EH VSHFLILHG DQG LQVWDOOHG LQ DFFRUGDQFH ZLWK WKH UHTXLUHPHQWV RI WKH &DOLIRUQLD (QHUJ\ &RGH 6HFWLRQ F

5.506.3 Carbon dioxide (CO2) monitoring in classrooms. (DSA-SS) (DFK SXEOLF . VFKRRO FODVVURRP DW DOO VFKRROV WKDW UHFHLYH IXQGLQJ IRU KHDOWK\ FODVVURRPV VKDOO EH HTXLSSHG ZLWK D FDUERQ GLR[LGH PRQLWRU RU VHQVRU WKDW PHHWV WKH IROORZLQJ UHTXLUHPHQWV

7KH PRQLWRU RU VHQVRU VKDOO EH SHUPDQHQWO\ DIIL[HG LQ D WDPSHU SURRI PDQQHU LQ HDFK FODVVURRP EHWZHHQ IHHW PP DQG PP DERYH WKH IORRU DQG DW OHDVW IHHW DZD\ IURP GRRUV DQG ZLQGRZV

:KHQ WKH PRQLWRU RU VHQVRU LV QRW LQWHJUDO WR DQ (QHUJ\ 0DQDJHPHQW &RQWURO 6\VWHP (0&6 WKH PRQLWRU RU VHQVRU VKDOO GLVSOD\ WKH FDUERQ GLR[LGH UHDGLQJV RQ WKH GHYLFH :KHQ WKH PRQLWRU RU VHQVRU LV LQWHJUDO WR DQ (0&6 WKH FDUERQ GLR[LGH UHDGLQJV VKDOO EH DYDLODEOH WR DQG UHJXODUO\ PRQLWRUHG E\ VFKRRO SHUVRQQHO. $ PRQLWRU RU VHQVRU VKDOO SURYLGH QRWLILFDWLRQ WKURXJK D YLVXDO LQGLFDWRU ZKHQ WKH FODVVURRP FDUERQ GLR[LGH OHYHOV KDYH H[FHHGHG SSP

7KH PRQLWRU RU VHQVRU VKDOO PHDVXUH FDUERQ GLR[LGH OHYHOV DW D PLQLPXP RQFH HYHU\ PLQXWHV

7KH PRQLWRU RU VHQVRU VKDOO EH FHUWLILHG E\ WKH PDQXIDFWXUHU WR EH DFFXUDWH ZLWKLQ SSP

SECTION 5.507 ENVIRONMENTAL COMFORT

5.507.4 ACOUSTICAL CONTROL. (PSOR\ EXLOGLQJ DVVHPEOLHV DQG FRPSRQHQWV ZLWK 6RXQG 7UDQVPLVVLRQ &ODVV 67& YDOXHV GHWHUPLQHG LQ DFFRUGDQFH ZLWK $670 (DQG $670 (RU 2XWGRRU ,QGRRU 6RXQG 7UDQVPLVVLRQ &ODVV 2,7& GHWHUPLQHG LQ DFFRUGDQFH ZLWK $670 (XVLQJ HLWKHU WKH SUHVFULSWLYH RU SHUIRUPDQFH PHWKRG LQ 6HFWLRQ RU

Exception: %XLOGLQJV ZLWK QHZ RU FKDQJH RI RFFXSDQF\ DV GHWHUPLQHG E\ WKH HQIRUFLQJ DJHQF\

Exception: [DSA-SS])RU SXEOLF VFKRROV DQG FRPPXQLW\ FROOHJHV WKH UHTXLUHPHQWV RI WKLV VHFWLRQ DQG DOO VXEVHFWLRQV DSSO\ RQO\ WR QHZ FRQVWUXFWLRQ

5.507.4.1 Exterior noise transmission, prescriptive method. :DOO DQG URRI FHLOLQJ DVVHPEOLHV H[SRVHG WR WKH QRLVH VRXUFH PDNLQJ XS WKH EXLOGLQJ HQYHORSH VKDOO PHHW D FRPSRVLWH 67& UDWLQJ RI DW OHDVW ZLWK H[WHULRU ZLQGRZV RI D PLQLPXP 67& RI RU 2,7& RI ZKHQ WKH EXLOGLQJ LV ORFDWHG DV GHILQHG LQ WKH IROORZLQJ ORFDWLRQV:

:LWKLQ WKH ˘˘ &1(/ QRLVH FRQWRXU RI DQ DLUSRUW

Exceptions:

/DQ RU &1(/ IRU PLOLWDU\ DLUSRUWV VKDOO EH GHWHUPLQHG E\ WKH IDFLOLW\ $LU ,QVWDOODWLRQ &RPSDWLEOH /DQG 8VH =RQH $,&8= SODQ

/DQ RU &1(/ IRU RWKHU DLUSRUWV DQG KHOLSRUWV IRU ZKLFK D ODQG XVH SODQ KDV QRW EHHQ GHYHORSHG VKDOO EH GHWHUPLQHG E\ WKH ORFDO JHQHUDO SODQ QRLVH HOHPHQW

:LWKLQ WKH GE/HT QRLVH FRQWRXU RI D IUHHZD\ RU H[SUHVVZD\ UDLOURDG LQGXVWULDO VRXUFH RU IL[HG JXLGHZD\ VRXUFH DV GHWHUPLQHG E\ WKH 1RLVH (OHPHQW RI WKH *HQHUDO 3ODQ

5.507.4.1.1. Noise exposure where noise contours are not readily available. %XLOGLQJV H[SRVHG WR D QRLVH OHYHO RI G% /HT GXULQJ DQ\ KRXU RI RSHUDWLRQ VKDOO KDYH EXLOGLQJ DVVHPEOLHV DQG FRPSRQHQWV ZLWK H[WHULRU DVVHPEOLHV DW OHDVW 67& RU 2,7& ZLWK H[WHULRU ZLQGRZV RI D PLQLPXP 67& RI

5.507.4.2 Performance Method.)RU EXLOGLQJV ORFDWHG DV GHILQHG LQ 6HFWLRQ RU ZDOO DQG URRI FHLOLQJ DVVHPEOLHV H[SRVHG WR WKH QRLVH VRXUFH PDNLQJ XS WKH EXLOGLQJ HQYHORSH VKDOO EH FRQVWUXFWHG WR SURYLGH DQ LQWHULRU QRLVH HQYLURQPHQW DWWULEXWDEOH WR H[WHULRU VRXUFHV WKDW GRHV QRW H[FHHG DQ KRXUO\ HTXLYDOHQW QRLVH OHYHO /HT +U RI G%$ LQ RFFXSLHG DUHDV

5.507.4.2.1 Site Features. ([WHULRU IHDWXUHV VXFK DV VRXQG ZDOOV RU HDUWK EHUPV PD\ EH XVHG DV DSSURSULDWH WR WKH EXLOGLQJ DGGLWLRQ RU DOWHUDWLRQ SURMHFW WR PLWLJDWH VRXQG PLJUDWLRQ WR WKH LQWHULRU

5.507.4.2.2 Documentation of Compliance. $Q DFRXVWLFDO DQDO\VLV GRFXPHQWLQJ FRPSOLDQFH ZLWK WKH LQWHULRU VRXQG OHYHOV VKDOO EH SUHSDUHG E\ SHUVRQQHO DSSURYHG E\ WKH DUFKLWHFW RU HQJLQHHU RI UHFRUG

5.507.4.3 Interior sound transmission. :DOO DQG IORRU FHLOLQJ DVVHPEOLHV VHSDUDWLQJ WHQDQW VSDFHV DQG SXEOLF SODFHV VKDOO KDYH DQ 67& RI DW OHDVW

Note: ([DPSOHV RI DVVHPEOLHV DQG WKHLU YDULRXV 67& UDWLQJV PD\ EH IRXQG DW WKH &DOLIRUQLD 2IILFH RI 1RLVH &RQWURO ZZZ WRROEDVH RUJ 3') &DVH6WXGLHV VWFBLFFBUDWLQJV SGI

SECTION 5.508 OUTDOOR AIR QUALITY

5.508.1 Ozone depletion and greenhouse gas reductions. ,QVWDOODWLRQV RI +9$& UHIULJHUDWLRQ DQG ILUH VXSSUHVVLRQ HTXLSPHQW VKDOO FRPSO\ ZLWK 6HFWLRQV ˘ ˘ DQG ˘ ˘

5.508.1.1 Chlorofluorocarbons (CFCs). ,QVWDOO +9$& UHIULJHUDWLRQ DQG ILUH VXSSUHVVLRQ HTXLSPHQW WKDW GR QRW FRQWDLQ &)&V

5.508.1.2 Halons. ,QVWDOO +9$& UHIULJHUDWLRQ DQG ILUH VXSSUHVVLRQ HTXLSPHQW WKDW GR QRW FRQWDLQ +DORQV

5.508.2 Supermarket refrigerant leak reduction. 1HZ FRPPHUFLDO UHIULJHUDWLRQ V\VWHPV VKDOO FRPSO\ ZLWK WKH SURYLVLRQV RI WKLV VHFWLRQ ZKHQ LQVWDOOHG LQ UHWDLO IRRG VWRUHV

Exception: 5HIULJHUDWLRQ V\VWHPV FRQWDLQLQJ ORZ JOREDO ZDUPLQJ SRWHQWLDO

5.508.2.1 Refrigerant piping. 3LSLQJ FRPSOLDQW ZLWK WKH &DOLIRUQLD 0HFKDQLFDO &RGH VKDOO EH LQVWDOOHG WR EH DFFHVVLEOH IRU OHDN SURWHFWLRQ DQG UHSDLUV

5.508.2.1.1 Threaded pipe. 7KUHDGHG FRQQHFWLRQV DUH SHUPLWWHG DW WKH FRPSUHVVRU UDFN

5.508.2.1.2 Copper pipe. &RSSHU WXELQJ ZLWK DQ 2' OHVV WKDQ LQFK LQ GLDPHWHU VKDOO QRW EH XVHG LQ V\VWHPV ZLWK D UHIULJHUDQW FKDUJH RI SRXQGV RU OHVV

5.508.2.1.2.1 Anchorage. 2QH LQFK 2' WXELQJ VKDOO EH VHFXUHG HYHU\ SOXV

5.508.2.1.3 Flared tubing connections.

Exception: 'RXEOH IODUHG WXELQJ FRQQHFWLRQV PD\ EH XVHG ZLWK D WKUHDG ORFNLQJ VHDODQW

5.508.2.1.4 Elbows. 6KRUW UDGLXV HOERZV DUH RQO\ SHUPLWWHG ZKHUH VSDFH OLPLWDWLRQV SURKLELW XVH RI ORQJ UDGLXV HOERZV

5.508.2.2 Valves. 9DOYHV DQG ILWWLQJV VKDOO FRPSO\ ZLWK WKH &DOLIRUQLD 0HFKDQLFDO &RGH

5.508.2.2.1 Pressure relief valves.)RU YHVVHOV FRQWDLQLQJ KLJK *:3 UHIULJHUDQW D UHOLHI YDOYH VKDOO EH LQVWDOOHG EHWZHHQ WKH RXWOHW RI WKH YHVVHO DQG WKH LQOHW RI WKH SUHVVXUH UHOLHI YDOYH ZLWK 0(59

5.508.2.2.1.1 Pressure detection. $ SUHVVXUH JDXJH SUHVVXUH WUDQVGXFHU RU RWKHU GHYLFH VKDOO EH LQVWDOOHG LQ WKH VSDFH EHWZHHQ WKH UXSWXUH GLVF DQG WKH UHOLHI YDOYH

5.508.2.2.2 Access valves. 2QO\ 6FKUDGHU DFFHVV YDOYHV ZLWK D EUDVV RU VWHHO ERG\ DUH SHUPLWWHG IRU XVH

5.508.2.2.2.1 Valve caps.)RU V\VWHPV ZLWK D UHIULJHUDQW FKDUJH RI VKDOO EH EUDVV RU VWHHO DQG QRW SODVWLF

5.508.2.2.2.2 Seal caps. ,I GHVLJQHG IRU LW WKH FDS VKDOO KDYH D QHRSUHQH 2 ULQJ

5.508.2.2.2.2.1 Chain tethers. &KDLQ WHWKHUV WR ILW RYHU WKH VWHP DUH UHTXLUHG IRU YDOYHV GHVLJQHG WR KDYH VHDO FDSV

Exception: 9DOYHV ZLWK VHDO FDSV WKDW DUH QRW UHPRYHG IURP WKH YDOYH GXULQJ VWHP RSHUDWLRQ

5.508.2.3 Refrigerated service cases. 5HIULJHUDWHG VHUYLFH FDVHV KROGLQJ IRRG SURGXFWV FRQWDLQLQJ YLQHJDU DQG VDOW VKDOO KDYH HYDSRUDWRU FRLOV RI FRUURVLRQ UHVLVWDQW PDWHULDO VXFK DV VWDLQOHVV VWHHO RU EH FRDWHG WR SUHYHQW FRUURVLRQ IURP WKHVH VXEVWDQFHV

5.508.2.3.1 Coil coating. &RQVLGHUDWLRQ VKDOO EH JLYHQ WR WKH KHDW WUDQVIHU HIILFLHQF\ RI FRLO FRDWLQJ WR PD[LPL]H HQHUJ\ HIILFLHQF\

5.508.2.4 Refrigerant receivers. 5HIULJHUDQW UHFHLYHUV ZLWK FDSDFLWLHV JUHDWHU WKDQ SRXQGV VKDOO EH HTXLSSHG ZLWK D GHYLFH WKDW LQGLFDWHV WKH OHYHO RI UHIULJHUDQW LQ WKH UHFHLYHU

5.508.2.5 Pressure testing. 7KH V\VWHP VKDOO EH SUHVVXUH WHVWHG GXULQJ LQVWDOODWLRQ SULRU WR HYDFXDWLRQ DQG FKDUJLQJ

5.508.2.5.1 Minimum pressure. 7KH V\VWHP VKDOO EH FKDUJHG ZLWK UHJXODWHG GU\ QLWURJHQ DQG DSSURSULDWH WUDFHU JDV WR EULQJ V\VWHP SUHVVXUH XS WR SVLJ PLQLPXP

5.508.2.5.2 Leaks. &KHFN WKH V\VWHP IRU OHDNV UHSDLU DQ\ OHDNV DQG UHWHVW IRU SUHVVXUH XVLQJ WKH VDPH JDXJH

5.508.2.5.3 Allowable pressure change. 7KH V\VWHP VKDOO VWDQG XQDOWHUHG IRU KRXUV ZLWK QR PRUH WKDQ D RQH SRXQG SUHVVXUH FKDQJH IURP SVLJ PHDVXUHG ZLWK WKH VDPH JDXJH

5.508.2.6 Evacuation. 7KH V\VWHP VKDOO EH HYDFXDWHG DIWHU SUHVVXUH WHVWLQJ DQG SULRU WR FKDUJLQJ

5.508.2.6.1 First vacuum. 3XOO D V\VWHP YDFXXP GRZQ WR DW OHDVW PLFURQV DQG KROG IRU PLQXWHV

5.508.2.6.2 Second vacuum. 3XOO D VHFRQG V\VWHP YDFXXP WR D PLQLPXP RI PLFURQV

5.508.2.6.3 Third vacuum. 3XOO D WKLUG YDFXXP GRZQ WR D PLQLPXP RI PLFURQV ZLWK D PD[LPXP GULIW RI PLFURQV RYHU D KRXU SHULRG

CHAPTER 7
INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING. +9$& V\VWHP LQVWDOOHUV VKDOO EH WUDLQHG DQG FHUWLILHG LQ WKH SURSHU LQVWDOODWLRQ RI +9$& V\VWHPV LQFOXGLQJ GXFWV DQG HTXLSPHQW E\ D QDWLRQDOO\ RU UHJLRQDOO\ UHFRJQL]HG WUDLQLQJ RU FHUWLILFDWLRQ SURJUDP

6WDWH FHUWLILHG DSSUHQWLFHVKLS SURJUDPV

3XEOLF XWLOLW\ WUDLQLQJ SURJUDPV

7UDLQLQJ SURJUDPV VSRQVRUHG E\ WUDGH ODERU RU VWDWHZLGH HQHUJ\ FRQVXOWLQJ RU YHULILFDWLRQ RUJDQL]DWLRQV

3URJUDPV VSRQVRUHG E\ PDQXIDFWXULQJ RUJDQL]DWLRQV

2WKHU SURJUDPV DFFHSWDEOH WR WKH HQIRUFLQJ DJHQF\

702.2 SPECIAL INSPECTION [HCD].

:KHQ UHTXLUHG E\ WKH HQIRUFLQJ DJHQF\ WKH RZQHU RU WKH RZQHU V DJHQW VKDOO HPSOR\ D VSHFLDO LQVSHFWRU WR SURYLGH LQIRUPDWLRQ RQ WKH HQIRUFLQJ DJHQF\

&HUWLILFDWLRQ E\ D QDWLRQDO RU UHJLRQDO JUHHQ EXLOGLQJ SURJUDP RU VWDQGDUG SXEOLVKHU

&HUWLILFDWLRQ E\ D VWDWHZLGH HQHUJ\ FRQVXOWLQJ RU YHULILFDWLRQ RUJDQL]DWLRQ

6XFFHVVIXO FRPSOHWLRQ RI D WKLUG SDUW\ DSSUHQWLFH WUDLQLQJ

2WKHU SURJUDPV DFFHSWDEOH WR WKH HQIRUFLQJ DJHQF\

Notes:

6SHFLDO LQVSHFWRUV VKDOO EH LQGHSHQGHQW HQWLWLHV ZLWK QR ILQDQFLDO LQWHUHVW LQ WKH PDWHULDOV RU WKH SURMHFW WKH\ DUH LQVSHFWLQJ IRU FRPSOLDQFH ZLWK WKLV FRGH

[BSC-CG] :KHQ UHTXLUHG E\ WKH HQIRUFLQJ DJHQF\ WKH RZQHU RU WKH RZQHU V DJHQW VKDOO HPSOR\ D VSHFLDO LQVSHFWRU WR SURYLGH LQVSHFWLRQ RU RWKHU GXWLHV QHFHVVDU\ WR VXEVWDQWLDWH FRPSOLDQFH ZLWK WKLV FRGH 6SHFLDO LQVSHFWRUV VKDOO GHPRQVWUDWH FRPSHWHQFH WR WKH VDWLVIDFWLRQ RI WKH HQIRUFLQJ DJHQF\ IRU WKH SDUWLFXODU W\SH RI LQVSHFWLRQ RU WDVN WR EH SHUIRUPHG

Note: 6SHFLDO LQVSHFWRUV VKDOO EH LQGHSHQGHQW HQWLWLHV ZLWK QR ILQDQFLDO LQWHUHVW LQ WKH PDWHULDOV RU WKH SURMHFW WKH\ DUH LQVSHFWLQJ IRU FRPSOLDQFH ZLWK WKLV FRGH

703 VERIFICATIONS

703.1 DOCUMENTATION. 'RFXPHQWDWLRQ XVHG WR VKRZ FRPSOLDQFH ZLWK WKLV FRGH VKDOO LQFOXGH EXW LV QRW OLPLWHG WR FRQVWUXFWLRQ GRFXPHQWV SODQV VSHFLILFDWLRQV EXLOGHU RU LQVWDOOHU FHUWLILFDWLRQ LQVSHFWLRQ UHSRUWV RU RWKHU PHWKRGV DFFHSWDEOH WR WKH HQIRUFLQJ DJHQF\ ZKLFK GHPRQVWUDWH VXEVWDQWLDO FRQIRUPDQFH

DISCLAIMER: 7+,6 '2&80(17 ,6 3529,'(' $1' ,17(1'(' 72 %(86(' $6 $ 0($16 72 ,1',&$7($5($6 2) &203/,$1&(:,7+ 7+(&$/,)251,$ *5((1 %8,/',1* 67$1'$5'6 &2'(

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
11590 W Bernardo Court, Suite 100
San Diego, CA 92127
www.rstavares.com

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRISCH
No. 63380
Exp. 03/31/24
STRUCTURAL
STATE OF CALIFORNIA
RST#22088
02/16/24

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CLIENT
Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

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

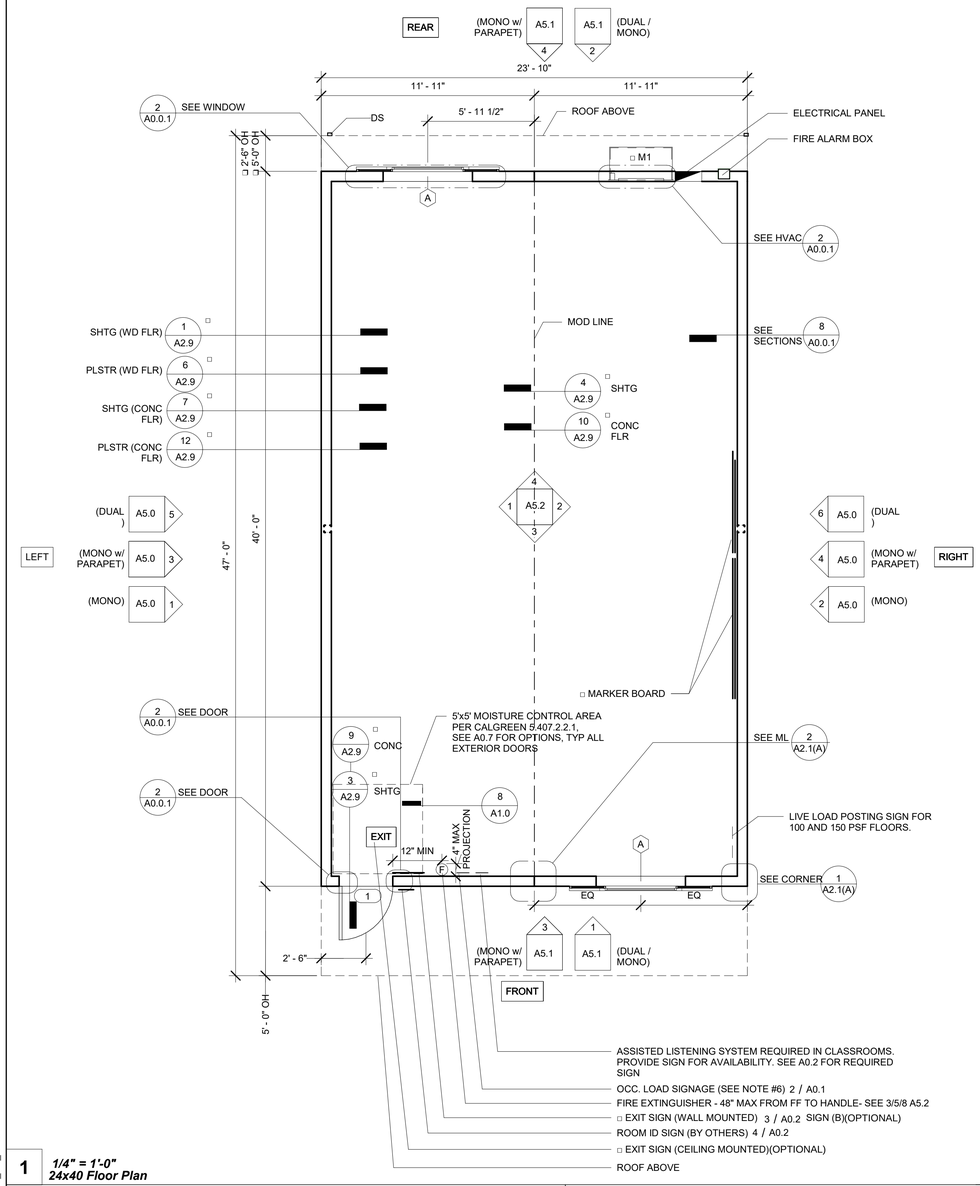
PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
CAL GREEN CHECKLIST

PROJECT NUMBER 22088
DRAWN BY rMc/SC
CHECKED BY RH/RT
DATE
SHEET NO. A0.8

SHEET OF

6/15/2021 11:49:13 PM C:\Users\User\Documents\20093 - Aries, 24x40 PC - MainFile - Low Seismic_6.7_CESAR24D63.rvt



1 ***1/4" = 1'-0"***
24x40 Floor Plan

All rated construction (both vertical and horizontal) must be clearly defined, correctly indentified, detailed, and listed in accordance with CBC Chapters 3,5,7 and 10 (fire partitions, barriers, walls, shaft, egress protection, ceilings, opening protection, penetrations, structural members, etc). Provide and cross-reference installation details, including all components and attachment schedules for the fire-resistive materials to the framing. Shall conform in every particular with the design number specified

SECTION 915
CARBON MONOXIDE DETECTION

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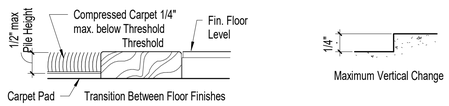
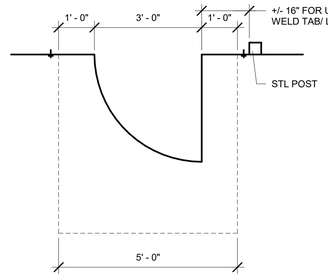
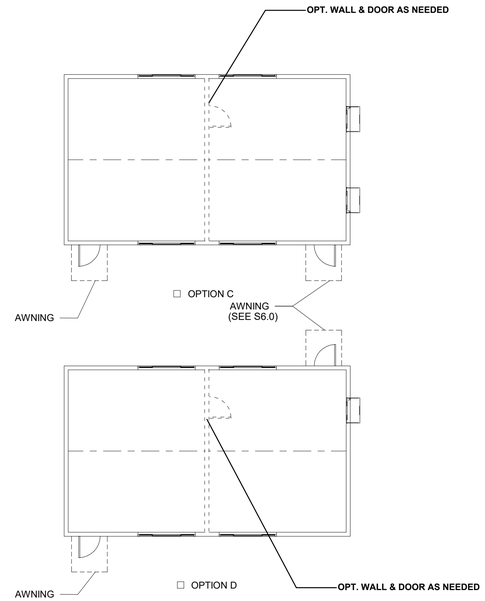


8 ***1/4" = 1'-0"***
VCT TO CARPET DETAIL



7 ***1/2" = 1'-0"***
AWNING

FOR AWNING
SEE 7 / A1.0 & SHEET S6.0



6 ***1" = 10'-0"***
24X60 FLOOR PLAN OPTIONS

Wall Schedule

	Stud Size	Sheet	Notes
□	Wood Wall Stud	S4.5	

FOR BURNING CHARACTERISTIC SEE 3 / A0.1

5 ***1/4" = 1'-0"***
Wall Schedule

Fire Rating Schedule

	Rating	Sheet	Notes
□	1 HOUR - SIDING OVER WD STUDS	A2.5	
□	1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY w/ WD STUDS	A2.6	

SEE A3.0 FOR ADDITIONAL FIRE ASSEMBLY NOTES AND DETAILS

4 ***1/4" = 1'-0"***
Fire Rating Schedule

Ext. Finish Schedule

	Finishes	Sheet	Notes
□	SIDING OVER WD STUDS	A2.1	
□	PLASTER OVER 1/2" OSB OR 1/2" CDX PLY w/ WD STUDS	A2.2	

3 ***1/4" = 1'-0"***
Ext. Finish Schedule

Roofing Schedule

"SLOPE"	EDPM	Standing Seam	Parapet	Notes
Dual	□ A4.2.2	□ A4.0.2	N/A	
Mono	□ A4.2.1	□ A4.0.1	□ A4.4.1	

HVAC Unit

Keynote	Type	Type Comments
□ M1	Wall Mounted HVAC	See (M)-Sheets
□ M2	Roof Mounted HVAC	See (M)-Sheets

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
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11590 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

02/16/24

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APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
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DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
24x40 FLOOR PLAN

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE

SHEET NO.
A1.0
SHEET OF

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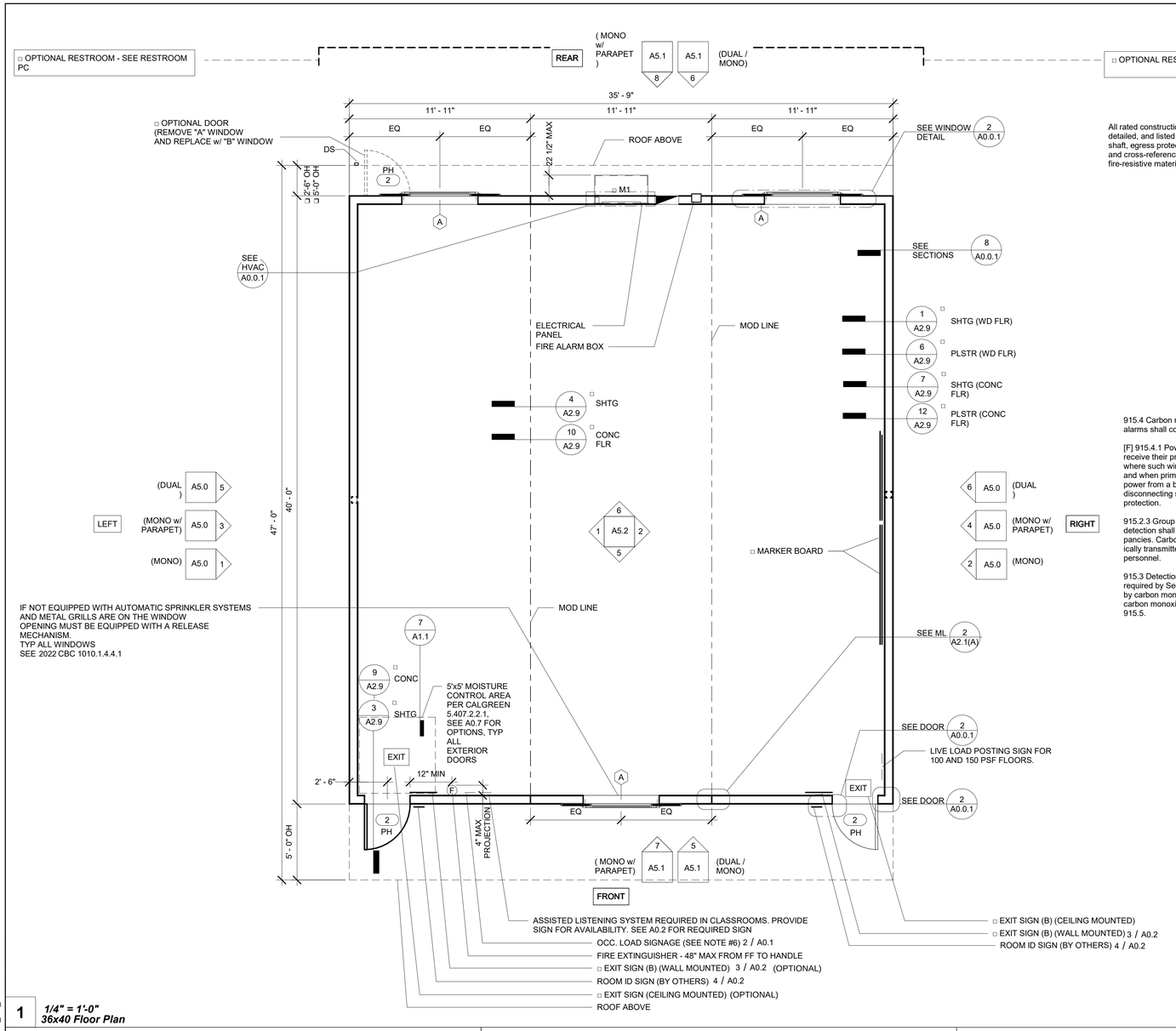

1 *1/4" = 1'-0"*
36x40 Floor Plan

All rated construction (both vertical and horizontal) must be clearly defined, correctly indentified, detailed, and listed in accordance with CBC Chapters 3,5,7 and 10 (fire partitions, barriers, walls, shaft, egress protection, ceilings, opening protection, penetrations, structural members, etc). Provide and cross-reference installation details, including all components and attachment schedules for the fire-resistive materials to the framing. Shall conform in every particular with the design number specified

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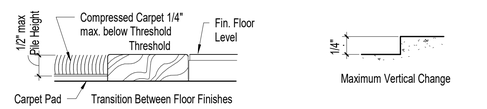
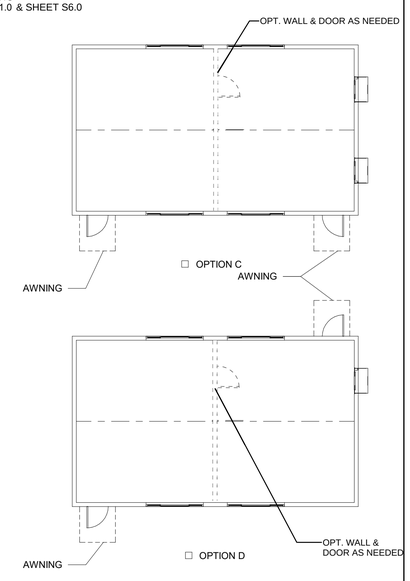


7 *1/4" = 1'-0"*
VCT TO CARPET DETAIL

FOR AWNING
SEE 7 / A1.0 & SHEET S6.0



6 *1" = 10'-0"*
36X40 FLOOR PLAN OPTIONS

Wall Schedule

	Stud Size	Sheet	Notes
□	Wood Wall Stud	S4.5	

FOR BURNING CHARACTERISTIC SEE 3 / A0.1

5 *1/4" = 1'-0"*
Wall Schedule

Fire Rating Schedule

	Rating	Sheet	Notes
□	1 HOUR - SIDING OVER WD STUDS	A2.5	
□	1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY w/ WD STUDS	A2.6	

SEE A3.0 FOR ADDITIONAL FIRE ASSEMBLY NOTES AND DETAILS

4 *1/4" = 1'-0"*
Fire Rating Schedule

Ext. Finish Schedule

	Finishes	Sheet	Notes
□	SIDING OVER WD STUDS	A2.1	
□	PLASTER OVER 1/2" OSB OR 1/2" CDX PLY w/ WD STUDS	A2.2	

3 *1/4" = 1'-0"*
Ext. Finish Schedule

Roofing Schedule

"SLOPE"	EDPM	Standing Seam	Parapet	Notes
Dual	□ A4.2.2	□ A4.0.2	N/A	
Mono	□ A4.2.1	□ A4.0.1	□ A4.4.1	

HVAC Unit

Keynote	Type	Type Comments
□ M1	Wall Mounted HVAC	See (M)-Sheets
□ M2	Roof Mounted HVAV	See (M)-Sheets

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
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11590 W Bernardo Court, Suite 100
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www.rstavares.com

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SS ☑ FLS ☑ ACS ☑ CG ☑
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Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
36x40 FLOOR PLAN

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE

SHEET NO.
A1.1
SHEET OF

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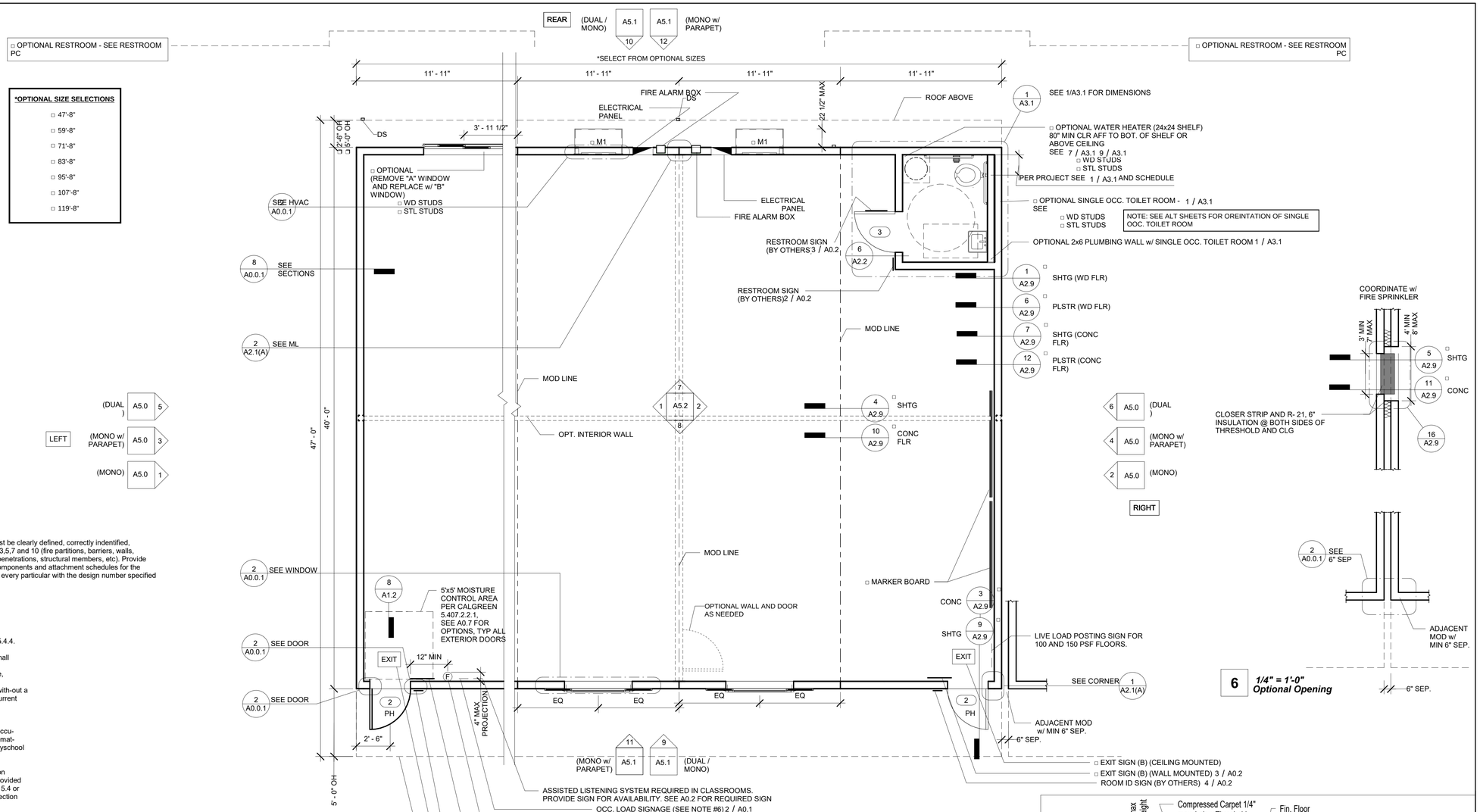
***OPTIONAL SIZE SELECTIONS**

- □ 47'-8"
- □ 59'-8"
- □ 71'-8"
- □ 83'-8"
- □ 95'-8"
- □ 107'-8"
- □ 119'-8"



1 ***1/4" = 1'-0"***
48x40 thru 120x40

6 ***1/4" = 1'-0"***
Optional Opening

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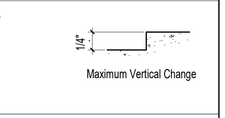
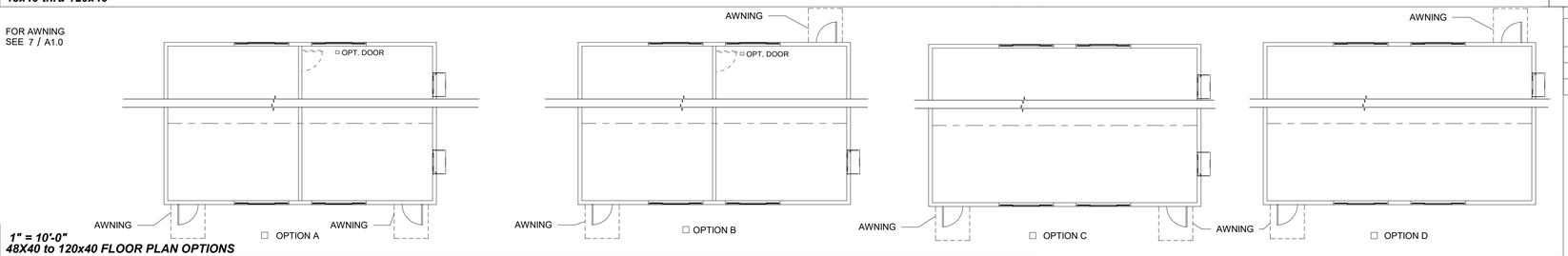


8 ***1/4" = 1'-0"*** Carpet Pad
VCT TO CARPET DETAIL



7 ***1" = 10'-0"***
48X40 to 120x40 FLOOR PLAN OPTIONS

Roofing Schedule

"SLOPE"	EDPM	Standing Seam	Parapet	Notes
Dual	□ A4.2.2	□ A4.0.2	N/A	
Mono	□ A4.2.1	□ A4.0.1	□ A4.4.1	

Wall Schedule

	Stud Size	Sheet	Notes
□	Wood Wall Stud	S4.5	

FOR BURNING CHARACTERISTIC SEE 3 / A0.1

5 ***1/4" = 1'-0"***
Wall Schedule

Fire Rating Schedule

	Rating	Sheet	Notes
□	1 HOUR - SIDING OVER WD STUDS	A2.5	
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SEE A3.0 FOR ADDITIONAL FIRE ASSEMBLY NOTES AND DETAILS

4 ***1/4" = 1'-0"***
Fire Rating Schedule

Ext. Finish Schedule

	Finishes	Sheet	Notes
□	SIDING OVER WD STUDS	A2.1	
□	PLASTER OVER 1/2" OSB OR 1/2" CDX PLY w/ WD STUDS	A2.2	

3 ***1/4" = 1'-0"***
Ext. Finish Schedule

HVAC Unit

Keynote	Type	Type Comments
□ M1	Wall Mounted HVAC	See (M)-Sheets
□ M2	Roof Mounted HVAC	See (M)-Sheets

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48x40 thru 120x40 FLOOR PLAN

PROJECT NUMBER
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DRAWN BY
rMc/SC

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RH/RT

DATE

SHEET NO.
A1.2
SHEET OF

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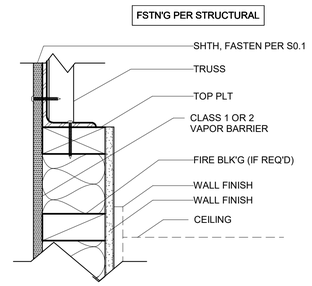
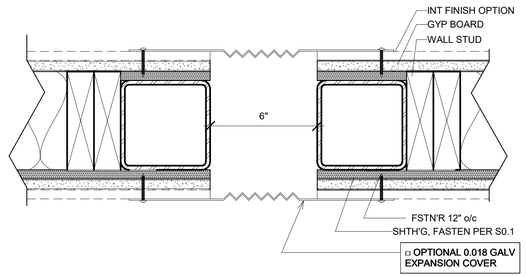
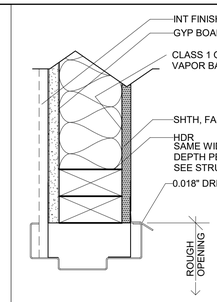


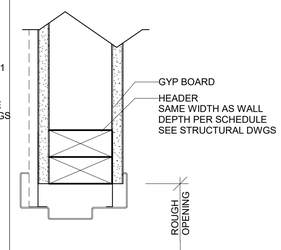
17 *3" = 1'-0"*
Section - Top Plate Shtg Finish



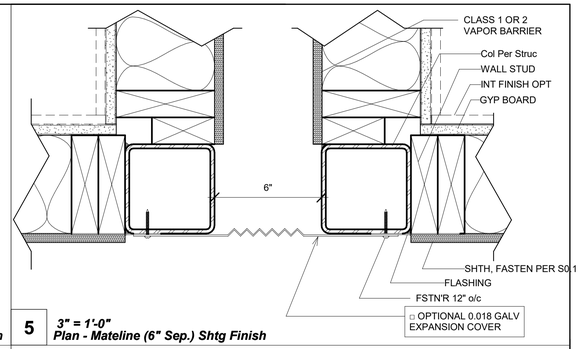
18 *3" = 1'-0"*
Plan - Interior Wall "OPEN" (6" Sep.) Shtg Finish



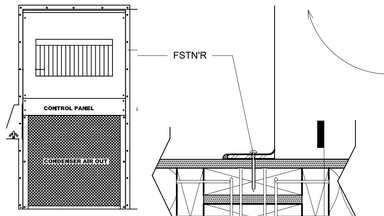
10A *3" = 1'-0"*
Section - Ext Wall Hdr Door Shtg Finish

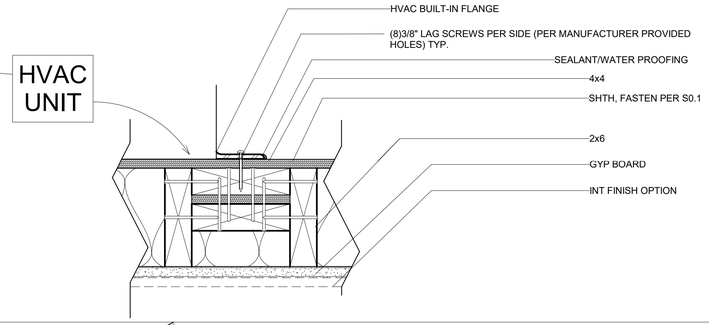


10B *3" = 1'-0"*
Section - Int Wall Hdr Door Shtg Finish

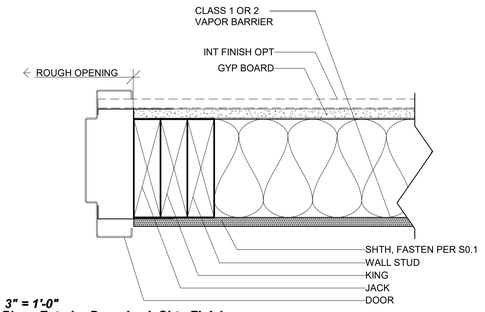


5 *3" = 1'-0"*
Plan - Mateline (6" Sep.) Shtg Finish

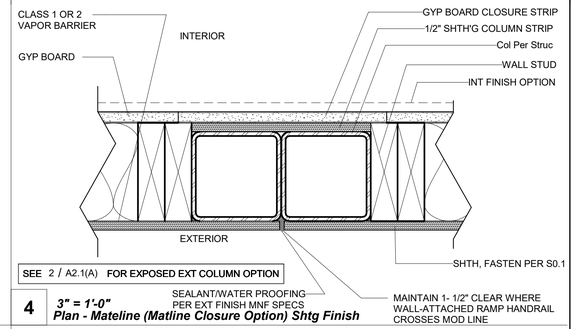




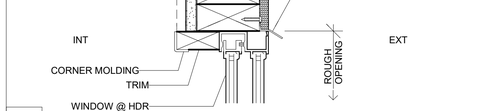
16 *3" = 1'-0"*
Plan - HVAC Unit Shtg Finish



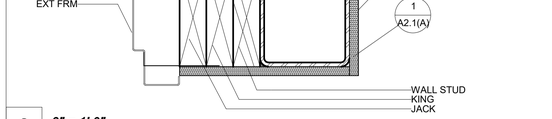
9 *3" = 1'-0"*
Plan - Exterior Door Jamb Shtg Finish



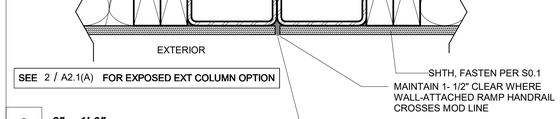
4 *3" = 1'-0"*
Plan - Mateline (Matline Closure Option) Shtg Finish



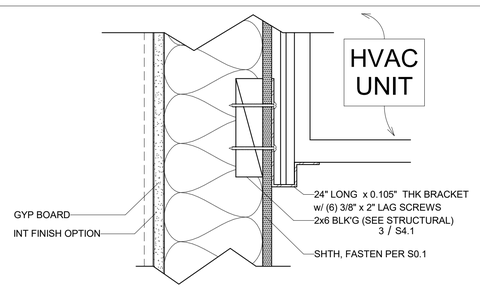
13 *3" = 1'-0"*
Section - Ext Wall Header @ Window Shtg Finish



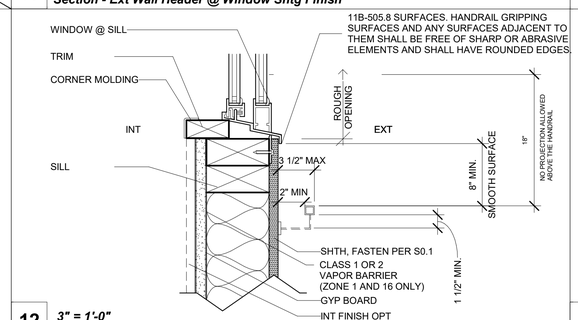
8 *3" = 1'-0"*
Plan - Exterior Door Jamb @ Wall Corner Shtg Finish



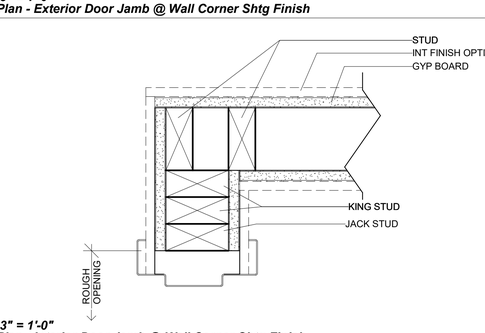
3 *3" = 1'-0"*
Plan - Mateline (Int Closure Strip) Shtg Finish



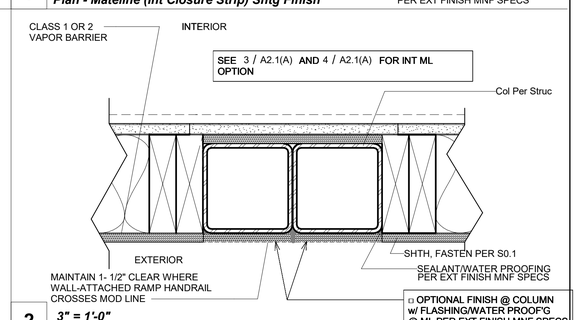
14 *3" = 1'-0"*
Section - Ext Wall @ HVAC Shtg Finish



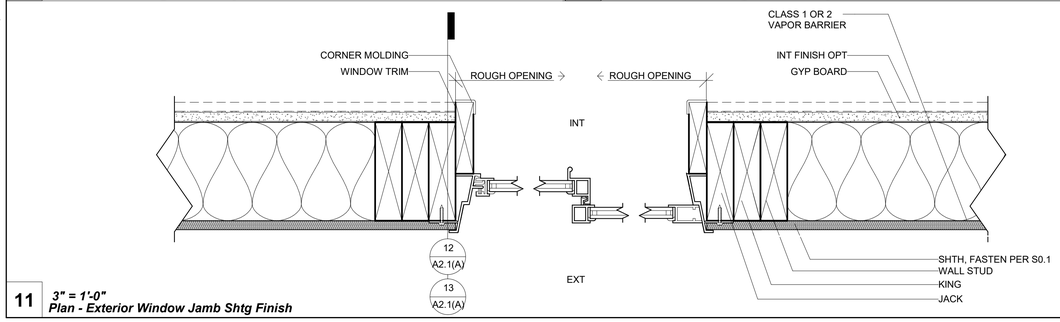
12 *3" = 1'-0"*
Section - Ext Wall Sill @ Window Shtg Finish



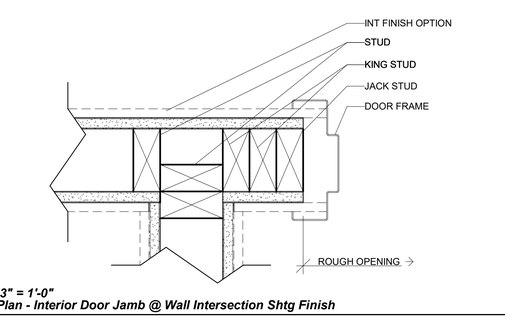
7 *3" = 1'-0"*
Plan - Interior Door Jamb @ Wall Corner Shtg Finish



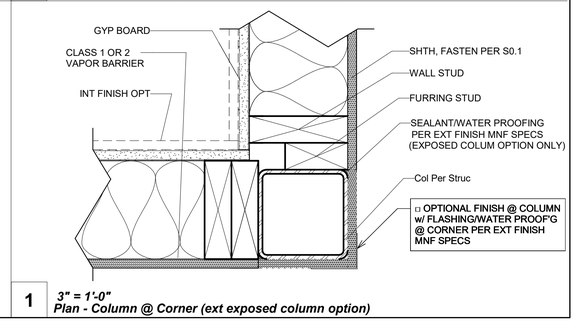
2 *3" = 1'-0"*
Plan - Mateline (ext exposed column mateline) Shtg Finish



11 *3" = 1'-0"*
Plan - Exterior Window Jamb Shtg Finish



6 *3" = 1'-0"*
Plan - Interior Door Jamb @ Wall Intersection Shtg Finish



1 *3" = 1'-0"*
Plan - Column @ Corner (ext exposed column option)

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
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SAN DIEGO, CA 92127
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PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRANCISCO
No. S-3380
03/31/24
STRUCTURAL
STATE OF CALIFORNIA
RST#22088
02/16/24

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CLIENT

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1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

ARCHITECTURAL DETAILS (WOOD FRAMING SHTG FINISH)

PROJECT NUMBER 22088

DRAWN BY rMc/SC

CHECKED BY RH/RT

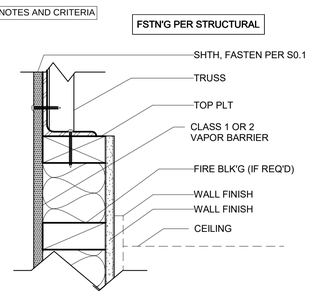
DATE

SHEET NO. A2.1(A)

SHEET OF

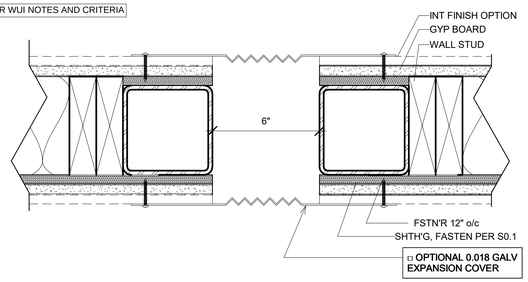
6/15/2021 11:49:32 PM C:\Users\User\Documents\20093 - Aries, 24x40 PC - MainFile - Low Seismic_6.7_CES\AR24D63.rvt

SEE A2.7 FOR WUI NOTES AND CRITERIA

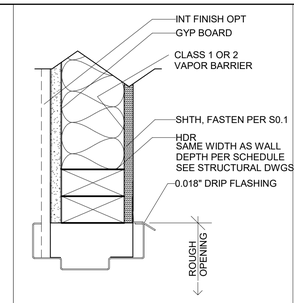


17 *3" = 1'-0"*
Section - Top Plate Shtg Finish

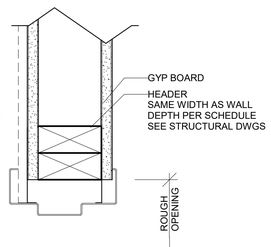
SEE A2.7 FOR WUI NOTES AND CRITERIA



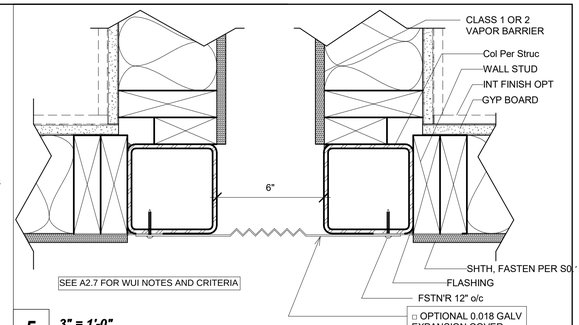
18 *3" = 1'-0"*
Plan - Interior Wall "OPEN" (6" Sep.) Shtg Finish



10A *3" = 1'-0"*
Section - Ext Wall Hdr Door Shtg Finish

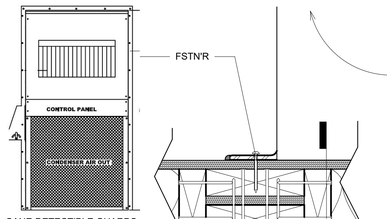


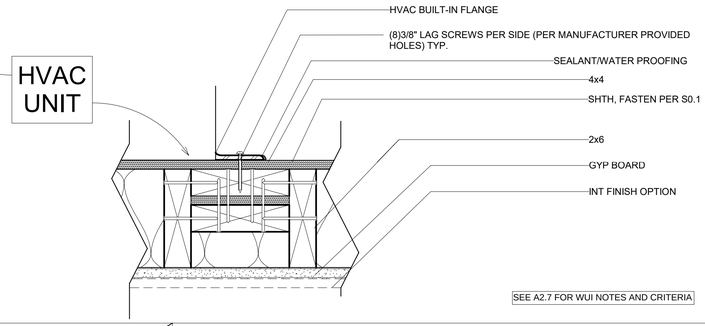
10B *3" = 1'-0"*
Section - Int Wall Hdr Door Shtg Finish



SEE A2.7 FOR WUI NOTES AND CRITERIA

5 *3" = 1'-0"*
Plan - Mateline (6" Sep.) Shtg Finish

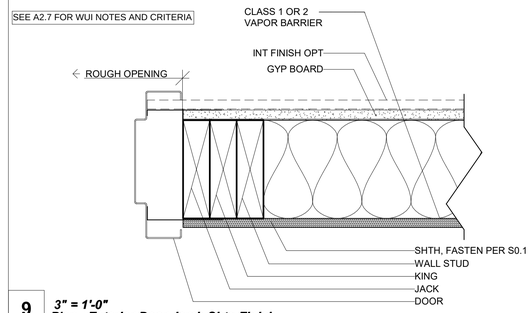




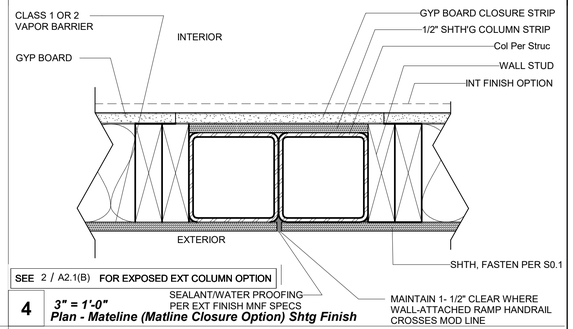
SEE A2.7 FOR WUI NOTES AND CRITERIA

16 *3" = 1'-0"*
Plan - HVAC Unit Shtg Finish

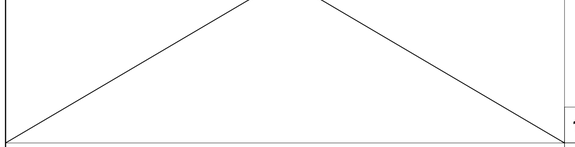
SEE A2.7 FOR WUI NOTES AND CRITERIA

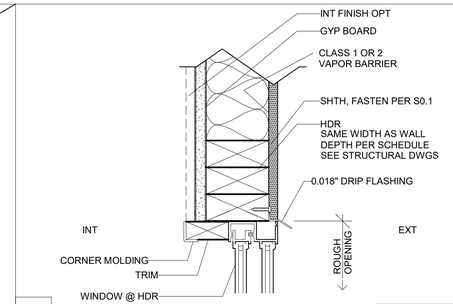


9 *3" = 1'-0"*
Plan - Exterior Door Jamb Shtg Finish



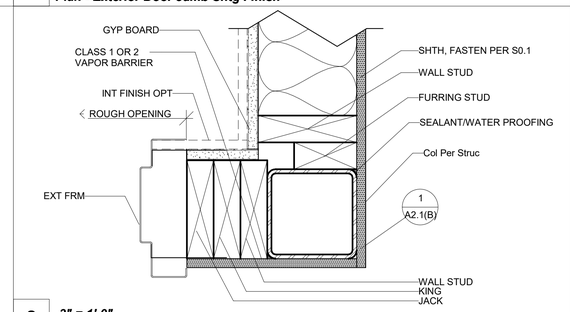
4 *3" = 1'-0"*
Plan - Mateline (Matline Closure Option) Shtg Finish





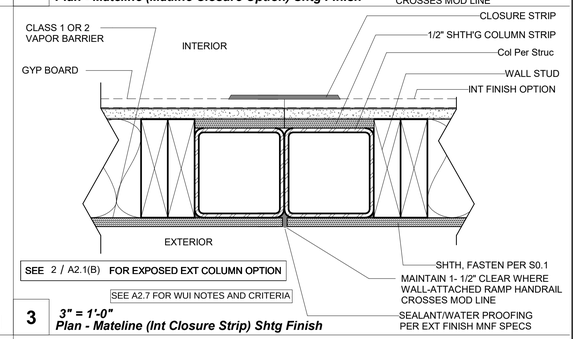
SEE A2.7 FOR WUI NOTES AND CRITERIA

13 *3" = 1'-0"*
Section - Ext Wall Header @ Window Shtg Finish

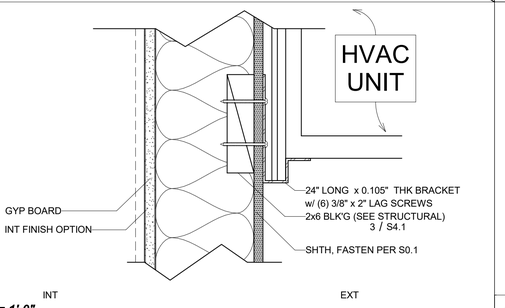


SEE A2.7 FOR WUI NOTES AND CRITERIA

8 *3" = 1'-0"*
Plan - Exterior Door Jamb @ Wall Corner Shtg Finish

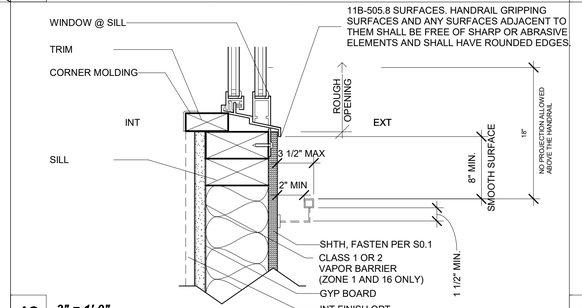


3 *3" = 1'-0"*
Plan - Mateline (Int Closure Strip) Shtg Finish



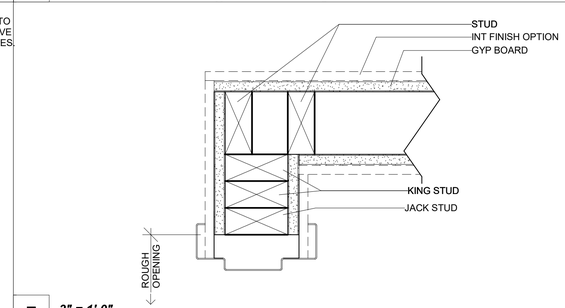
SEE A2.7 FOR WUI NOTES AND CRITERIA

14 *3" = 1'-0"*
Section - Ext Wall @ HVAC Shtg Finish

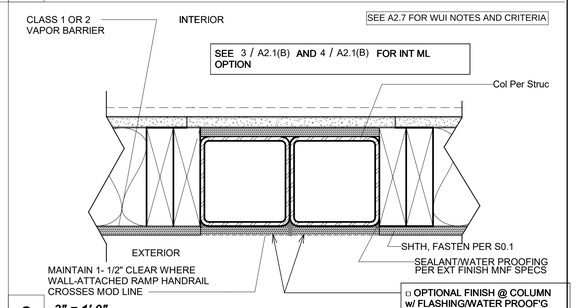


SEE A2.7 FOR WUI NOTES AND CRITERIA

12 *3" = 1'-0"*
Section - Ext Wall Sill @ Window Shtg Finish

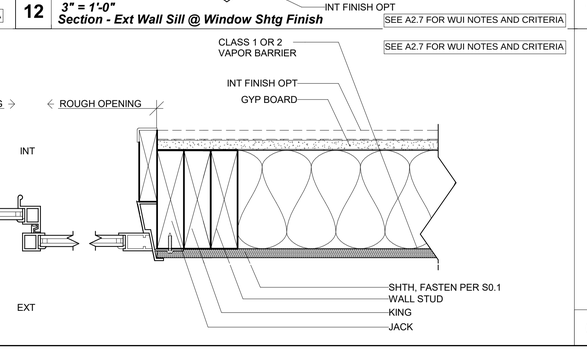


7 *3" = 1'-0"*
Plan - Interior Door Jamb @ Wall Corner Shtg Finish



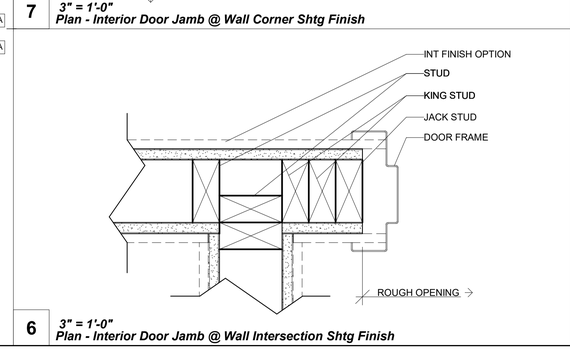
SEE A2.7 FOR WUI NOTES AND CRITERIA

2 *3" = 1'-0"*
Plan - Mateline (ext exposed column mateline) Shtg Finish

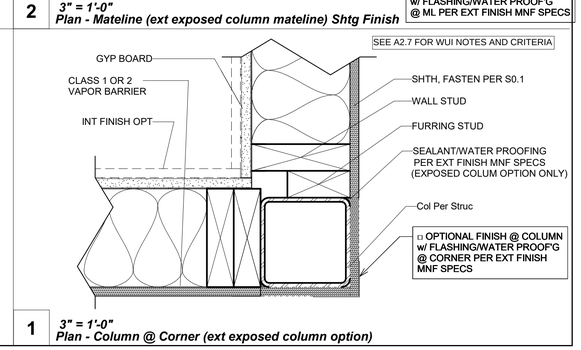


SEE A2.7 FOR WUI NOTES AND CRITERIA

11 *3" = 1'-0"*
Plan - Exterior Window Jamb Shtg Finish



6 *3" = 1'-0"*
Plan - Interior Door Jamb @ Wall Intersection Shtg Finish



SEE A2.7 FOR WUI NOTES AND CRITERIA

1 *3" = 1'-0"*
Plan - Column @ Corner (ext exposed column option)

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ● CONSULTING ● PROJECT
11777 BERNARDO PLAZA COURT, SUITE 105
SAN DIEGO, CA 92128

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
JAIMY D. FRANCISCO
No. 23380
03/31/24
CIVIL
STRUCTURAL
STATE OF CALIFORNIA
RST#22088

02/16/24

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CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

ARCHITECTURAL WUI DETAILS (WOOD FRAMING SHTG FINISH)

PROJECT NUMBER

22088

DRAWN BY

rMc/SM

CHECKED BY

JA/RT

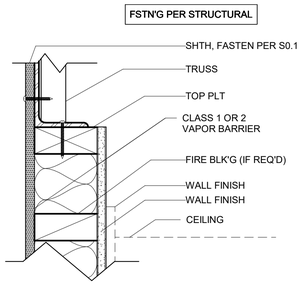
DATE

SHEET NO.

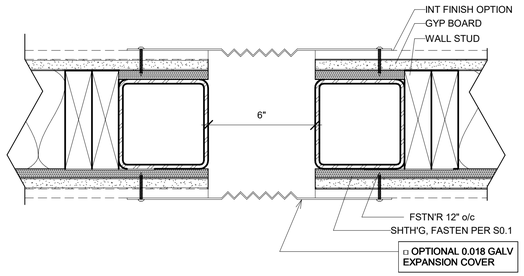
A2.1(B)

SHEET OF

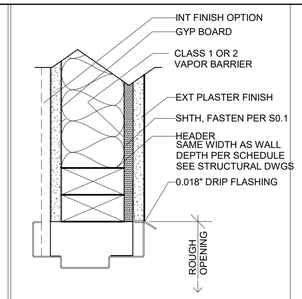
6/15/2021 11:49:36 PM C:\Users\User\Documents\20093 - Aries, 24x40 PC - MainFile - Low Seismic_6.7_CES\AR24D63.rvt



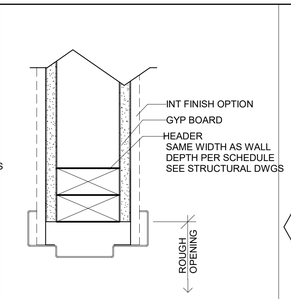
17 *3" = 1'-0"*
Section - Top Plate



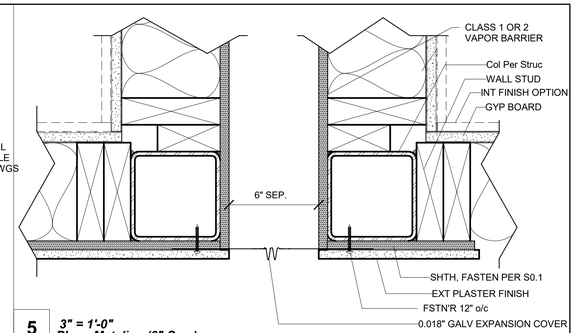
18 *3" = 1'-0"*
Plan - Interior Wall "OPEN" (6" Sep.) Shtg Finish



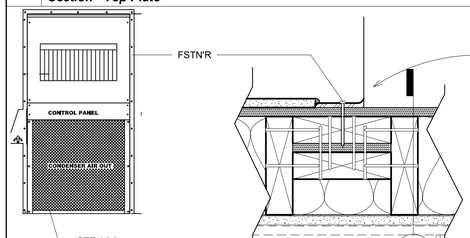
10A *3" = 1'-0"*
Section - Ext Wall Header @ Door

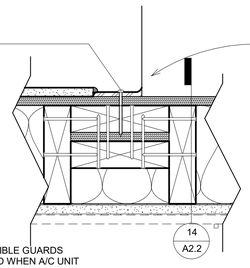


10B *3" = 1'-0"*
Section - Int Wall Header @ Door

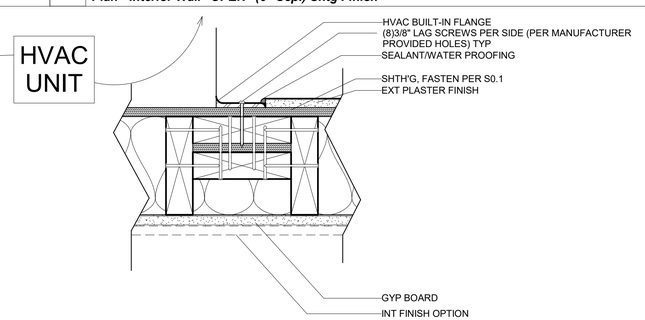


5 *3" = 1'-0"*
Plan - Mateline (6" Sep.)

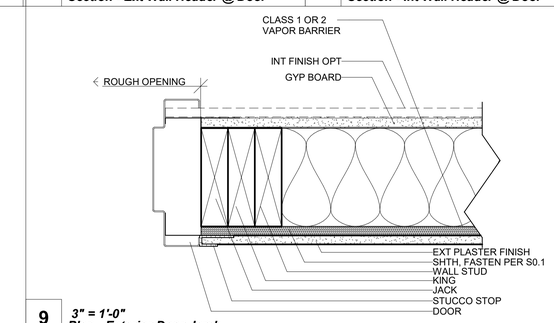




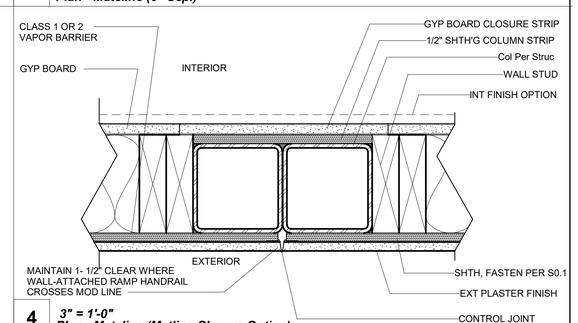
CANE-DETECTIBLE GUARDS
ARE REQUIRED WHEN A/C UNIT
PROJECTS INTO A CIRCULATION
AREA 11B-307
SEE DETAIL: 4 / A7.2 & 5 / A7.2
FOR GUARD DETAIL.(OFOI)



16 *3" = 1'-0"*
Plan - HVAC Unit



9 *3" = 1'-0"*
Plan - Exterior Door Jamb

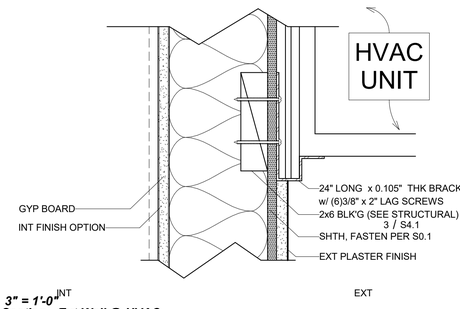


4 *3" = 1'-0"*
Plan - Mateline (Matline Closure Option)

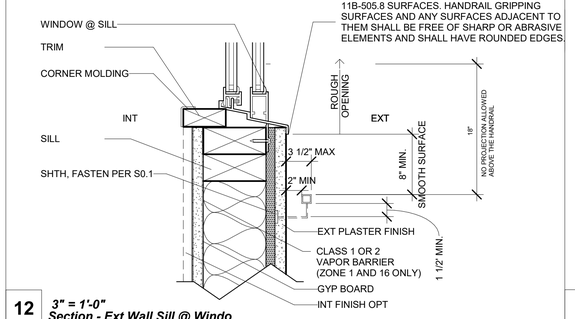
13 *3" = 1'-0"*
Section - Ext Wall Header @ Window

8 *3" = 1'-0"*
Plan - Exterior Door Jamb @ Wall Corner

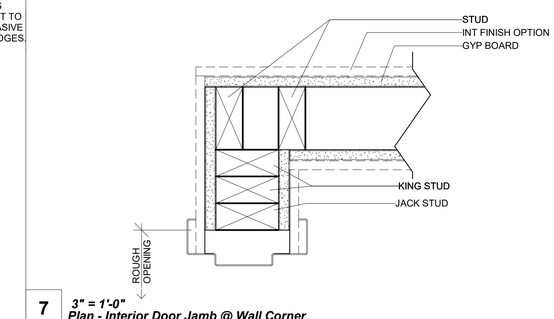
3 *3" = 1'-0"*
Plan - Mateline (Int Closure Strip)



14 *3" = 1'-0"*
Section - Ext Wall @ HVAC



12 *3" = 1'-0"*
Section - Ext Wall Sill @ Windo



7 *3" = 1'-0"*
Plan - Interior Door Jamb @ Wall Corner

11 *3" = 1'-0"*
Plan - Exterior Window Jamb

6 *3" = 1'-0"*
Plan - Interior Door Jamb @ Wall Intersection

1 *3" = 1'-0"*
Plan - Column @ Corner

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
11590 W BERNARDO COURT, SUITE 100
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WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRANCISCO
No. C-53380
03/31/24
CIVIL STRUCTURAL
STATE OF CALIFORNIA
RST#22088
02/16/24

THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEVISED SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. ©

CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40'
EXPANDABLE TO
120' x 40'

SHEET TITLE

ARCHITECTURAL
DETAILS
(WOOD FRAMING
PLASTER FINISH)

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE

SHEET NO.
A2.2

SHEET OF

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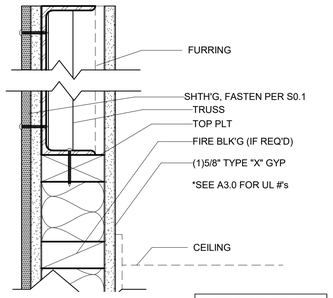
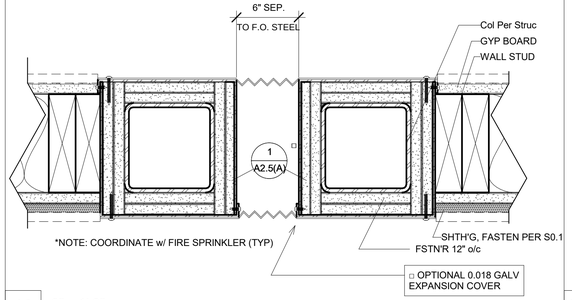
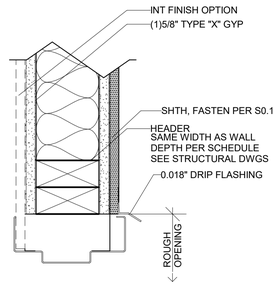


FSTN'G PER STRUCTURAL

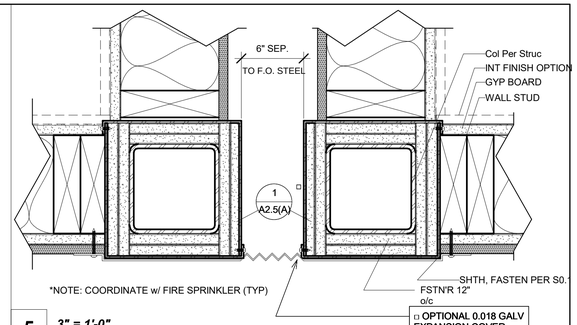
17 *3" = 1'-0"*
Section - Top Plate (1-HR Shtg Finish)



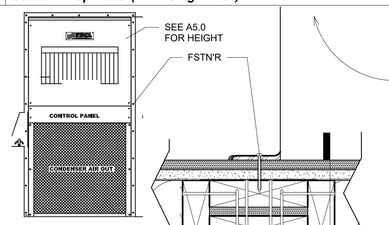
18 *3" = 1'-0"*
Plan - Interior Wall "OPEN" (6" Sep.) 1-HR Shtg Finish

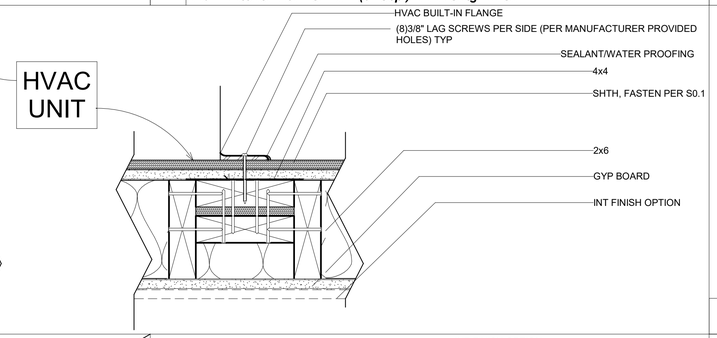


10A *3" = 1'-0"*
Section - Ext Wall Hdr (1-HR Shtg Finish)

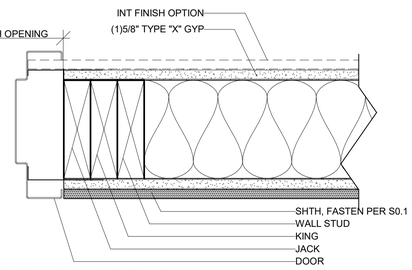


5 *3" = 1'-0"*
Plan - Mateline (6" Sep.) 1-HR Shtg Finish

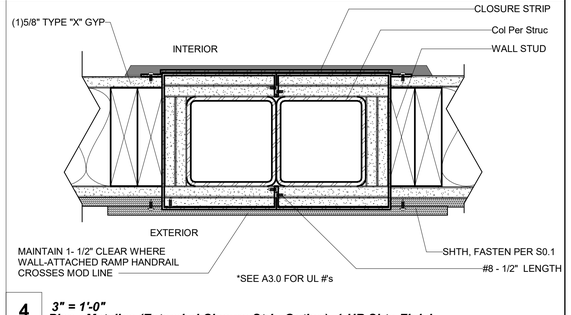




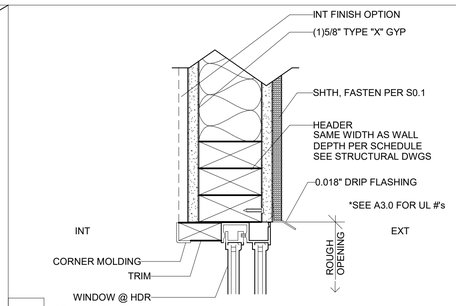
16 *3" = 1'-0"*
Plan - HVAC Unit (1-HR Shtg Finish)



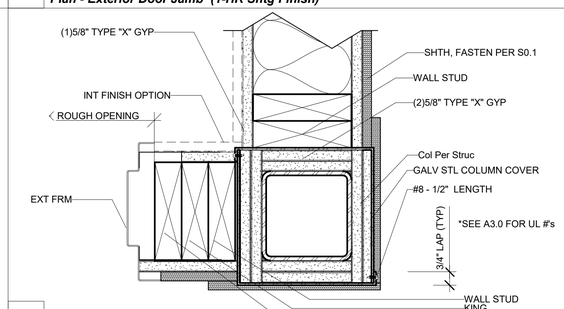
9 *3" = 1'-0"*
Plan - Exterior Door Jamb (1-HR Shtg Finish)



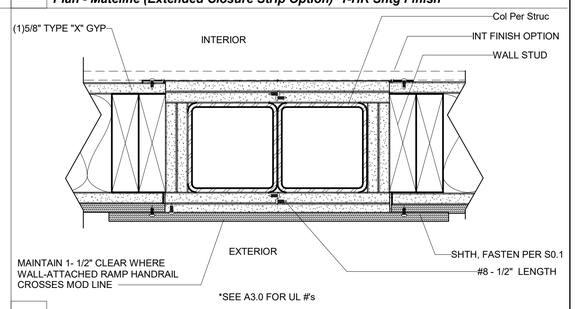
4 *3" = 1'-0"*
Plan - Mateline (Extended Closure Strip Option) 1-HR Shtg Finish



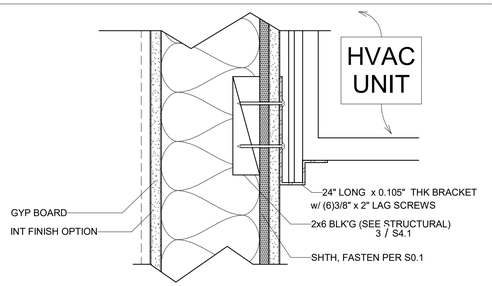
13 *3" = 1'-0"*
Section - Ext Wall Header @ Window (1-HR Shtg Finish)



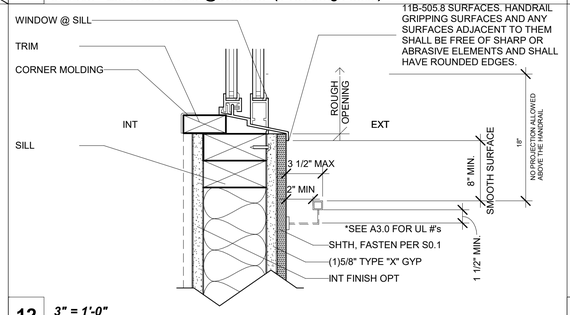
8 *3" = 1'-0"*
Plan - Exterior Door Jamb @ Wall Corner (1-HR Shtg Finish)



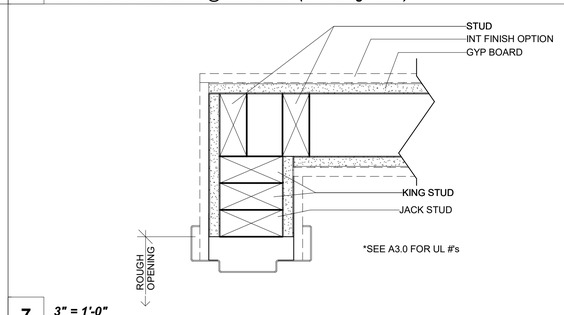
3 *3" = 1'-0"*
Plan - Mateline (Int Finsh Closure Strip) 1-HR Shtg Finish



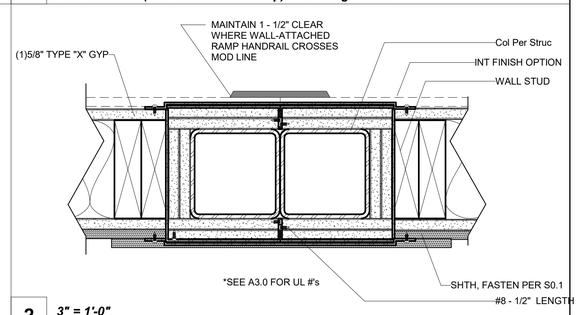
14 *3" = 1'-0"*
Section - Ext Wall @ HVAC (1-HR Shtg Finish)



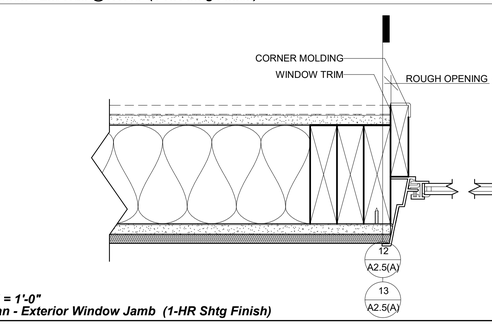
12 *3" = 1'-0"*
Section - Ext Wall Sill @ Window (1-HR Shtg Finish)



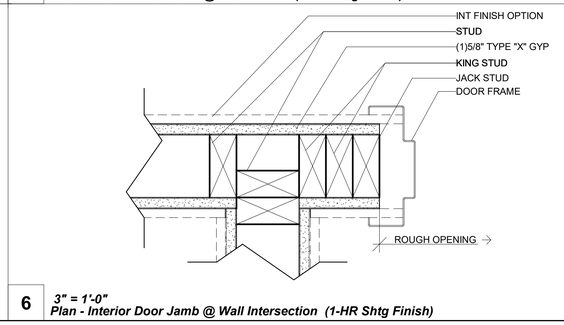
7 *3" = 1'-0"*
Plan - Interior Door Jamb @ Wall Corner (1-HR Shtg Finish)



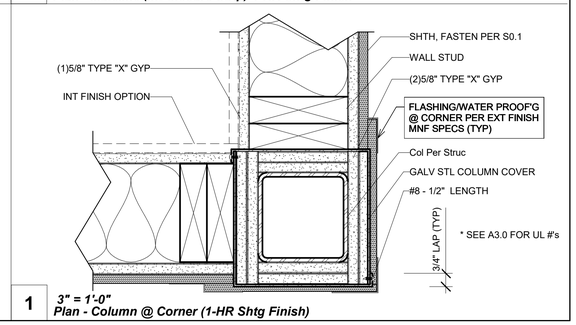
2 *3" = 1'-0"*
Plan - Mateline (Int Closure Strip) 1-HR Shtg Finish



11 *3" = 1'-0"*
Plan - Exterior Window Jamb (1-HR Shtg Finish)



6 *3" = 1'-0"*
Plan - Interior Door Jamb @ Wall Intersection (1-HR Shtg Finish)



1 *3" = 1'-0"*
Plan - Column @ Corner (1-HR Shtg Finish)

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ♦ CONSULTING ♦ PROJECT MGT
11590 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRANCISCO
No. 23380
03/31/24
CIVIL STRUCTURAL
STATE OF CALIFORNIA
RST#22088

02/16/24

THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEVISED SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. ©

CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

ARCHITECTURAL DETAILS (1-HR WOOD FRAMING SHTG FINISH)

PROJECT NUMBER

22088

DRAWN BY

rMc/SC

CHECKED BY

RH/RT

DATE

SHEET NO.

A2.5(A)

SHEET OF

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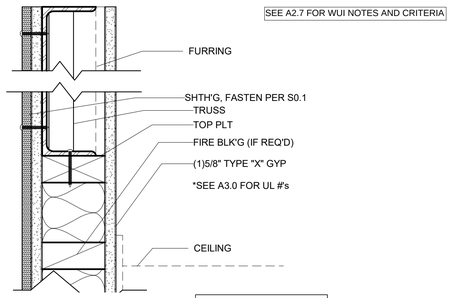
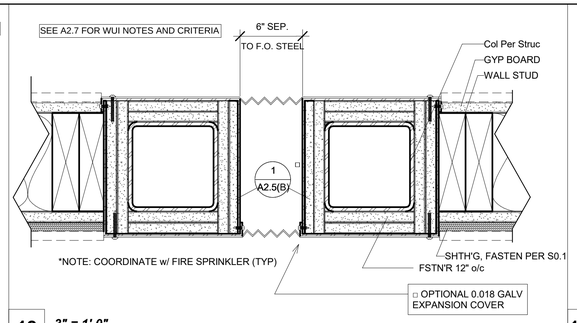
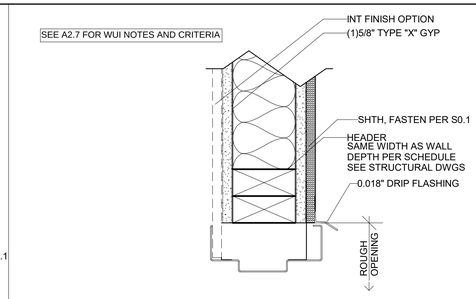


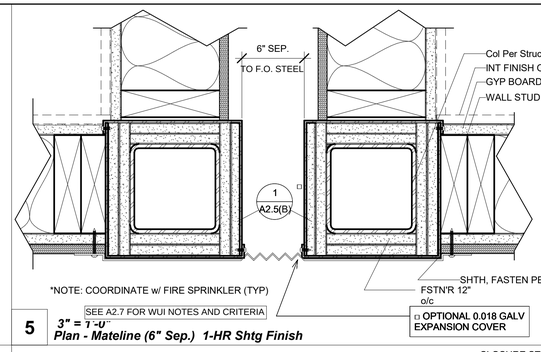
17 *3" = 1'-0"*
Section - Top Plate (1-HR Shtg Finish)



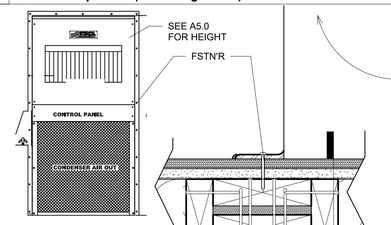
18 *3" = 1'-0"*
Plan - Interior Wall "OPEN" (6" Sep.) 1-HR Shtg Finish

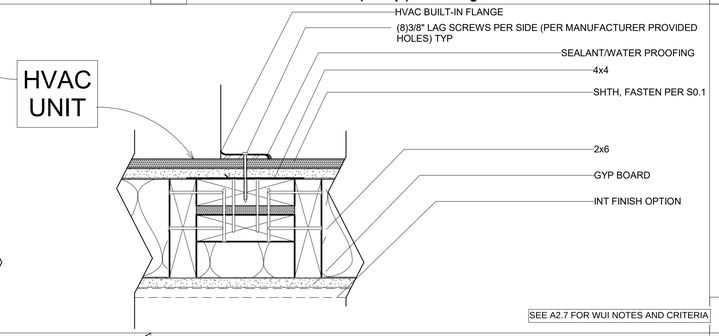


10A *3" = 1'-0"*
Section - Ext Wall Hdr (1-HR Shtg Finish)

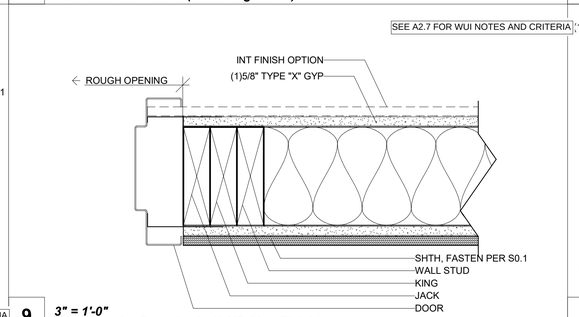


5 *3" = 1'-0"*
Plan - Mateline (6" Sep.) 1-HR Shtg Finish

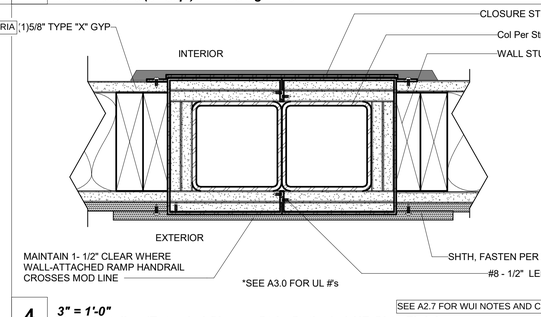




16 *3" = 1'-0"*
Plan - HVAC Unit (1-HR Shtg Finish)

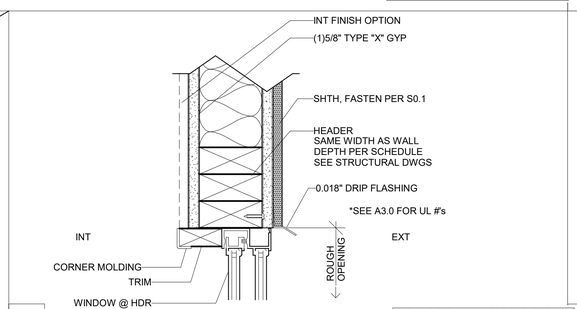


9 *3" = 1'-0"*
Plan - Exterior Door Jamb (1-HR Shtg Finish)



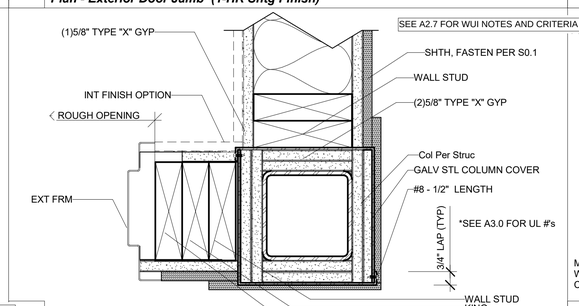
4 *3" = 1'-0"*
Plan - Mateline (Extended Closure Strip Option) 1-HR Shtg Finish

SEE A2.7 FOR WUI NOTES AND CRITERIA



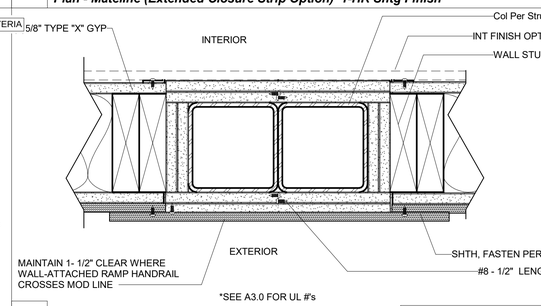
13 *3" = 1'-0"*
Section - Ext Wall Header @ Window (1-HR Shtg Finish)

SEE A2.7 FOR WUI NOTES AND CRITERIA



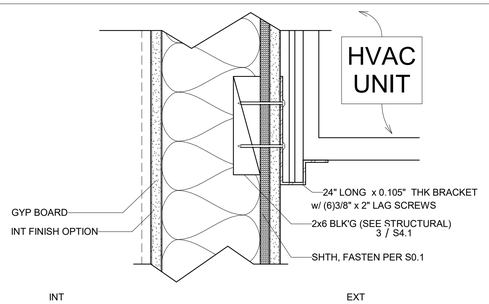
8 *3" = 1'-0"*
Plan - Exterior Door Jamb @ Wall Corner (1-HR Shtg Finish)

SEE A2.7 FOR WUI NOTES AND CRITERIA



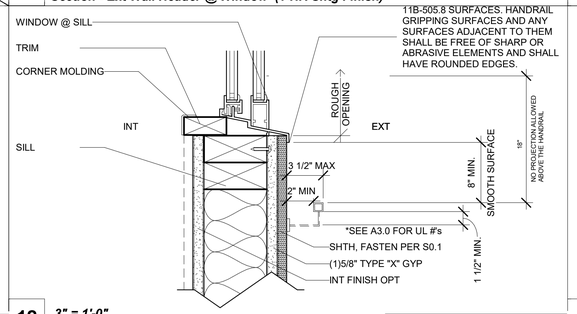
3 *3" = 1'-0"*
Plan - Mateline (Int Finsh Closure Strip) 1-HR Shtg Finish

SEE A2.7 FOR WUI NOTES AND CRITERIA



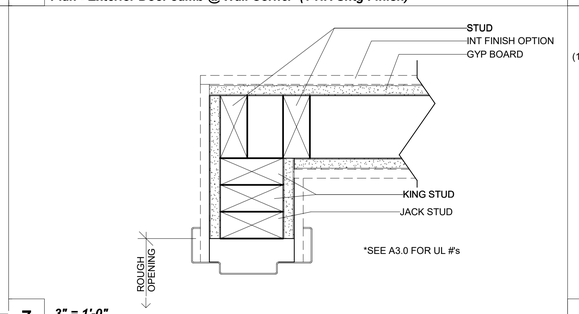
14 *3" = 1'-0"*
Section - Ext Wall @ HVAC (1-HR Shtg Finish)

SEE A2.7 FOR WUI NOTES AND CRITERIA

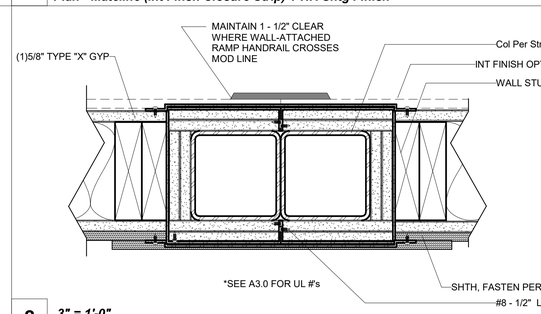


12 *3" = 1'-0"*
Section - Ext Wall Sill @ Window (1-HR Shtg Finish)

SEE A2.7 FOR WUI NOTES AND CRITERIA

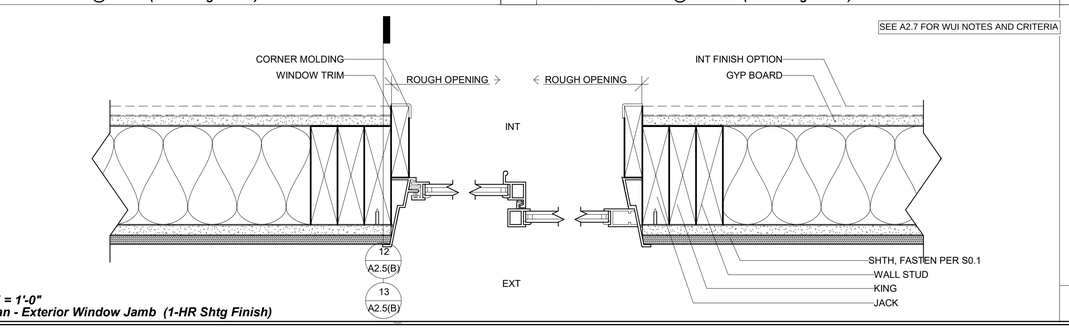


7 *3" = 1'-0"*
Plan - Interior Door Jamb @ Wall Corner (1-HR Shtg Finish)

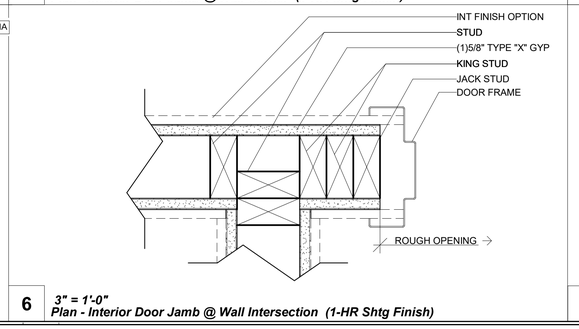


2 *3" = 1'-0"*
Plan - Mateline (Int Closure Strip) 1-HR Shtg Finish

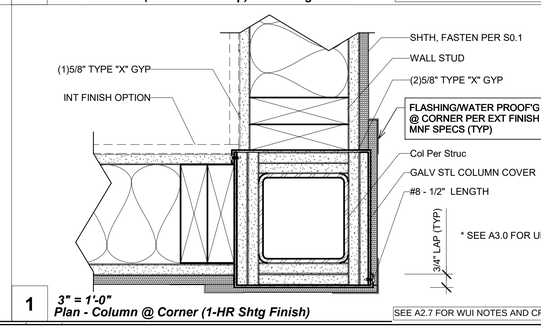
SEE A2.7 FOR WUI NOTES AND CRITERIA



11 *3" = 1'-0"*
Plan - Exterior Window Jamb (1-HR Shtg Finish)



6 *3" = 1'-0"*
Plan - Interior Door Jamb @ Wall Intersection (1-HR Shtg Finish)



1 *3" = 1'-0"*
Plan - Column @ Corner (1-HR Shtg Finish)

SEE A2.7 FOR WUI NOTES AND CRITERIA

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ● CONSULTING ● PROJECT
11777 BERNARDO PLAZA COURT, SUITE 105
SAN DIEGO, CA 92128

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRANCISCO
No. 63380
03/31/24
STRUCTURAL
STATE OF CALIFORNIA
RST#22088
02/16/24

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CLIENT

Class Leasing
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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

ARCHITECTURAL WUI DETAILS (1-HR WOOD FRAMING SHTG FINISH)

PROJECT NUMBER

22088

DRAWN BY

rMc/SM

CHECKED BY

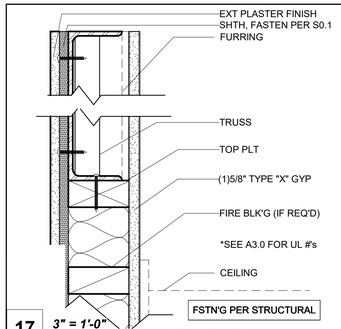
JA/RT

DATE

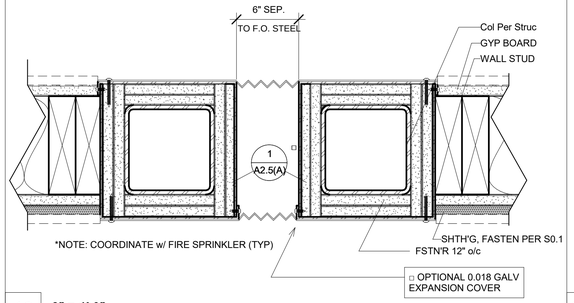
SHEET NO.

A2.5(B)

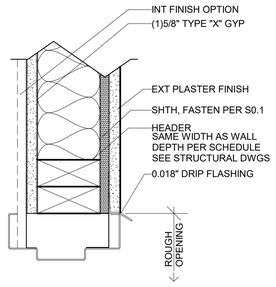
SHEET OF



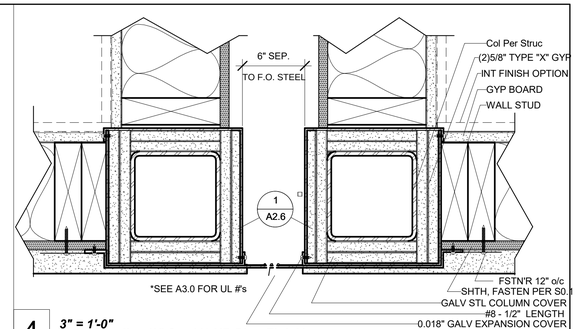
17 *3" = 1'-0"*
Section - Top Plate (1-HR Plstr Finish)



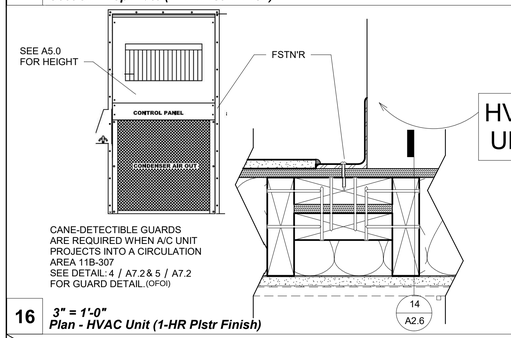
18 *3" = 1'-0"*
Plan - Interior Wall "OPEN" (6" Sep.) 1-HR Shtg Finish

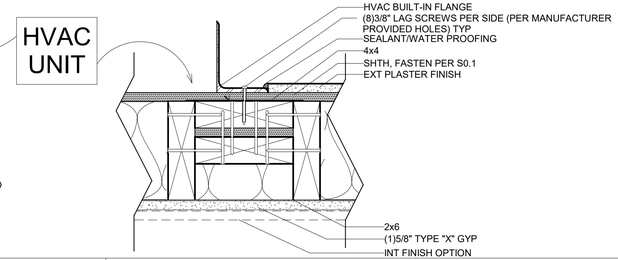


10A *3" = 1'-0"*
Section - Ext Hdr (1-HR Plstr Finish)

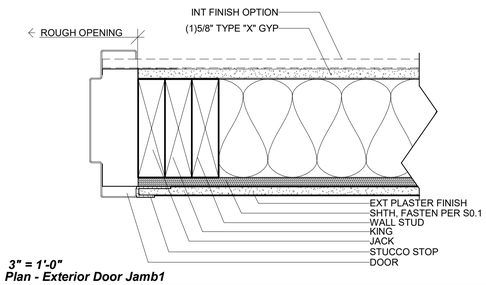


4 *3" = 1'-0"*
Plan - Mateline (6" Sep.)(1-HR Plstr Finish)

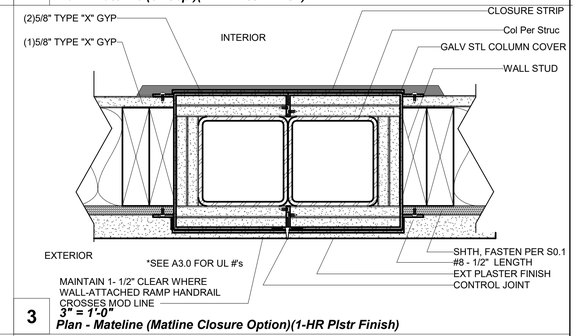




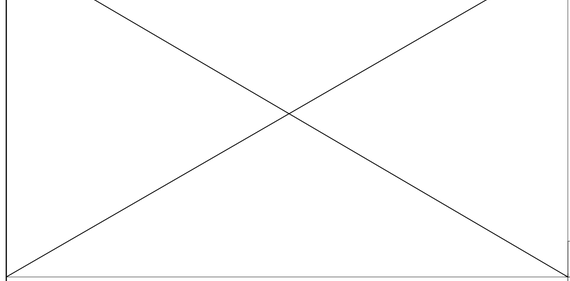
16 *3" = 1'-0"*
Plan - HVAC Unit (1-HR Plstr Finish)

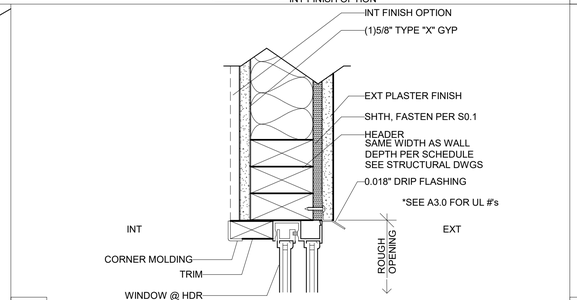


9 *3" = 1'-0"*
Plan - Exterior Door Jamb1

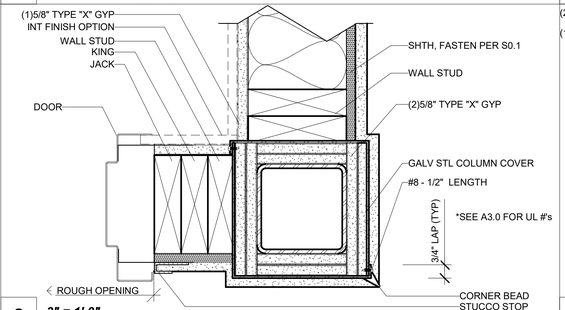


3 *3" = 1'-0"*
Plan - Mateline (Matline Closure Option)(1-HR Plstr Finish)

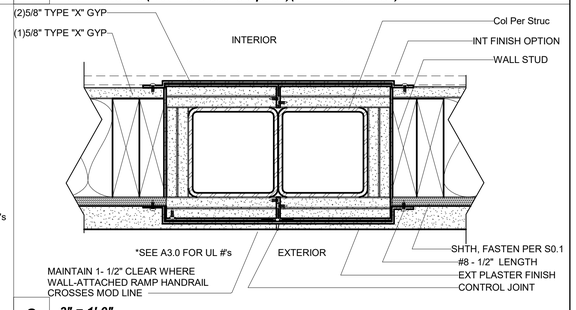




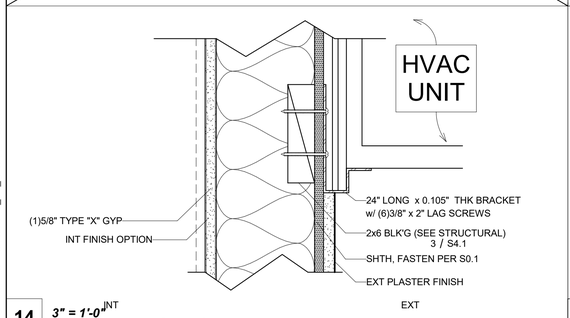
13 *3" = 1'-0"*
Section - Ext Wall Header @ Window (1-HR Plstr Finish)



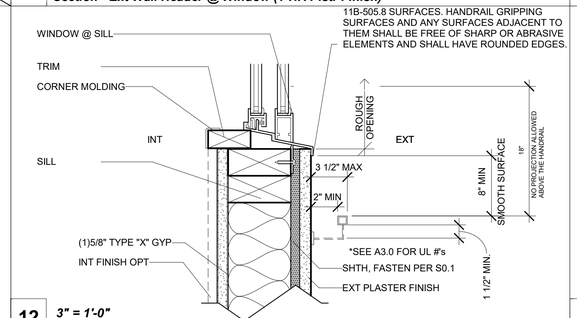
8 *3" = 1'-0"*
Plan - Exterior Door Jamb @ Wall Corner1



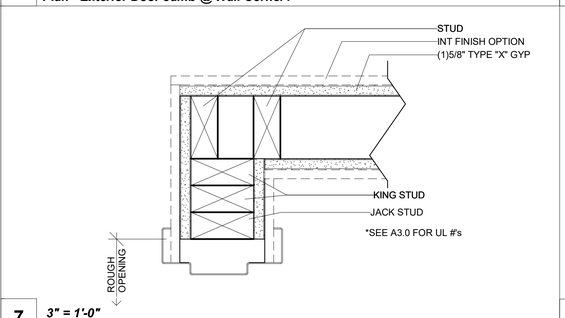
2 *3" = 1'-0"*
Plan - Mateline (1-HR Plstr Finish)



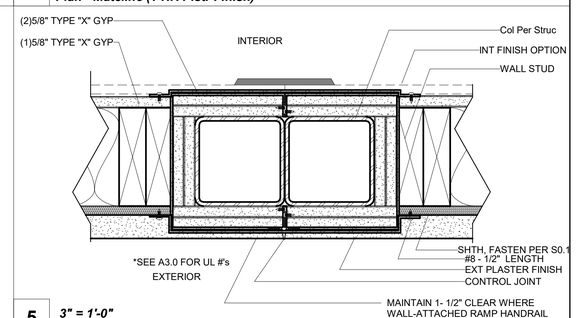
14 *3" = 1'-0"*
Section - Ext Wall @ HVAC (1-HR Plstr Finish)



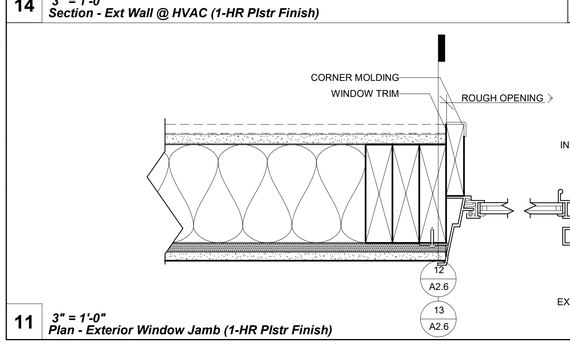
12 *3" = 1'-0"*
Section - Ext Wall Sill @ Window (1-HR Plstr Finish)

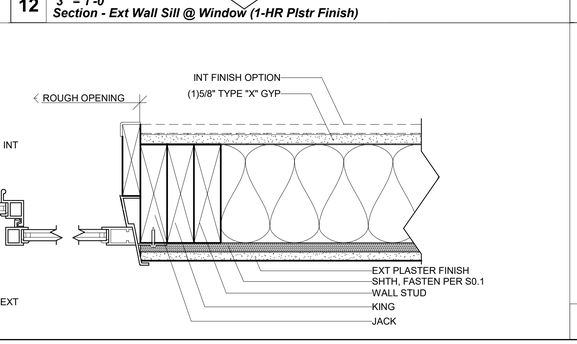


7 *3" = 1'-0"*
Plan - Interior Door Jamb @ Wall Corner1

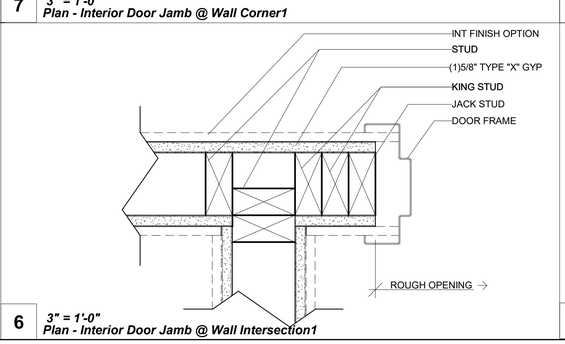


5 *3" = 1'-0"*
Plan - Mateline (Int Closure Strip) 1-HR Plstr Finish

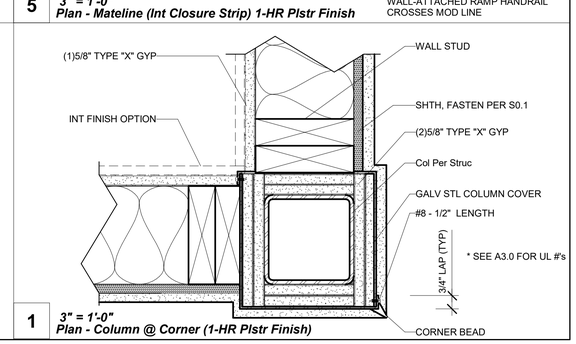




11 *3" = 1'-0"*
Plan - Exterior Window Jamb (1-HR Plstr Finish)



6 *3" = 1'-0"*
Plan - Interior Door Jamb @ Wall Intersection1



1 *3" = 1'-0"*
Plan - Column @ Corner (1-HR Plstr Finish)

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
11590 W Bernardo Court, Suite 100
San Diego, CA 92127
www.rstavares.com

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRANCISCO
No. S-3380
03/31/24
STRUCTURAL
STATE OF CALIFORNIA
RST#22088
02/16/24

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CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

ARCHITECTURAL DETAILS (1-HR WOOD FRAMING PLASTER FINISH)

PROJECT NUMBER

22088

DRAWN BY

rMc/SC

CHECKED BY

RH/RT

DATE

SHEET NO.

A2.6

SHEET OF

6/15/2021 11:50:05 PM C:\Users\User\Documents\20093 - Aries, 24x40 PC - MainFile - Low Seismic_6.7_CES4R24D63.rvt

Roof
Shall comply with the requirements of Chapter 7A and Chapter 15. Roofs shall have a roofing assembly installed in accordance with its listing and the manufacturer's installation instructions. Roof assemblies in the Fire Hazard Severity Zones shall be Class A rating when tested in accordance with ASTM E108 or UL790

Roof gutters
Shall be provided with the means to prevent the accumulation of leaves and debris in the gutter.

Exterior wall
The exterior wall covering or wall assembly shall comply with one of the following requirements:
Noncombustible material.
Ignition-resistant material.
Sawn lumber or glue laminated wood with the smallest minimum nominal dimension of 4 inches (102 mm). Sawn or glue-laminated planks splined, tongue-and groove, or set close together and well spiked.
Log wall construction assembly.
Wall assemblies that have been tested in accordance with the test procedures for a 10-minute direct flame contact exposure test set forth in ASTM E2707 with the conditions of acceptance shown in Section 707A.3.1.
Wall assemblies that meet the performance criteria in accordance with the test procedures for a 10-minute direct flame contact exposure test set forth in SFM Standard 12-7A-1.

Exterior windows
Exterior windows and exterior glazed door assemblies shall comply with one of the following requirements:
* Be constructed of multi pane glazing with a minimum of one tempered pane meeting the requirements of CBC Section 2406 Safety Glazing, or
* Be constructed of glass block units, or
* Have a fire-resistance rating of not less than 20 minutes when tested according to NFPA 257, or Be tested to meet the performance requirements of SFM Standard 12-7A-2.

Exterior doors
Exterior doors shall comply with one of the following:
The exterior surface or cladding shall be of noncombustible material.
The exterior surface or cladding shall be of ignition-resistant material.
The exterior door shall be constructed of solid core wood that complies with the following requirements:
Stiles and rails shall not be less than 13/8 inches thick.
Panels shall not be less than 11/4 inches thick, except for the exterior perimeter of the panel that shall be permitted to taper to a tongue not less than 3/8 inch thick.
The exterior door assembly shall have a fire-resistance rating of not less than 20 minutes when tested according to NFPA 252.
The exterior surface or cladding shall be tested to meet the performance requirements of Section 707A.3.1 when tested in accordance with ASTM E2707.
The exterior surface or cladding shall be tested to meet the performance requirements of SFM Standard 12-7A-1

WILDFIRE URBAN INTERFACE (WUI) CRITERIA:

[PROJECT SPECIFIC BUILDING REQUIREMENTS FOR FIRE HAZARD SEVERITY ZONE CBC CHAPTER 1A.

1) ROOF COVERING: (C.B.C SECTION 705A)
26GA GALV STEEL (NON-COMBUSTIBLE) INTERLOCKED STANDING SEAM ROOF PANEL WITH NO SPACE BETWEEN ROOF PANELS AND ROOF DECKING.
STANDING SEAM ROOF OVER ONE LAYER#15 ROOF FELT. (CBC 705A.2)

2) ROOF GUTTERS: (C.B.C SECTION 705A.4)
SHALL BE SCREENED WITH A CORROSION RESISTANT NON COMBUSTIBLE WIRE MESH WITH 1/4" OPENING. (OR EQUAL)

3) SOFFITS: (C.B.C SECTION 707A.5)
ROSEBURG DURATEMP SIDING. (OR EQUAL)

4) EXTERIOR WALL FINISH: (C.B.C SECTION 707A.3)
ROSEBURG DURATEMP SIDING (OR EQUAL) PER CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION OFFICE OF STATE FIRE MARSHALL PRODUCTS HANDBOOK PUBLISHED BY CALFIRE DECEMBER 14, 2021.

5) VERTICAL EXTERIOR WALL VENTS & SOFFIT VENTS: (C.B.C SEC. 706A.2)
SCREENED WITH A CORROSION RESISTANT NON COMBUSTABLE WIRE MESH WITH 1/16" (1.6MM) MIN. OPENINGS AND NOT TO EXCEDD 1/8" (3.2MM)

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

7) EXTERIOR DOORS: (C.B.C SECTION 708.3)
NON COMBUSTIBLE METAL DOORS AND FRAME.
ASSEMBLY OF FIRE RESIST OF NOT LESS THAN 20 MINUTES

1 ***1/4" = 1'-0"***
WUI NOTES

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ★ CONSULTING ★ PROJECT MGT
11590 W Bernardo Court, Suite 100
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CLIENT

Class Leasing
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SAN JACINTO CA. 92581
VOICE (951) 943-1908 FAX (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

CODE: 2019 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
WUI NOTES AND CRITERIA

PROJECT NUMBER
22088

DRAWN BY
Author

CHECKED BY
Checker

DATE
06/15/2021

SHEET NO.
A2.7

SHEET OF

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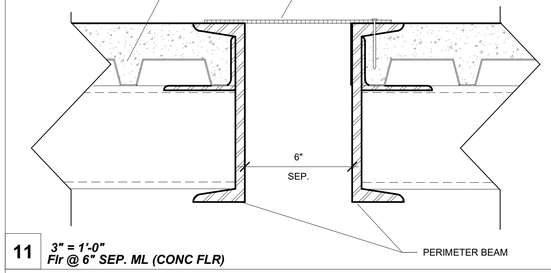
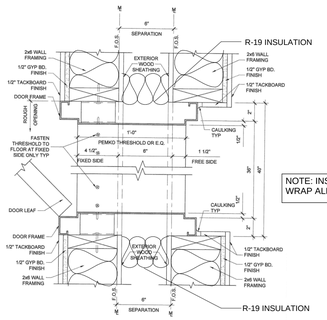
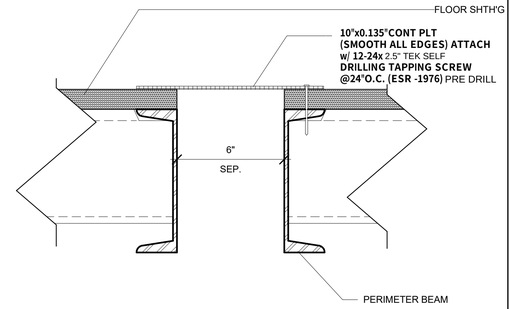


11 *3" = 1'-0"*
Flr @ 6" SEP. ML (CONC FLR)

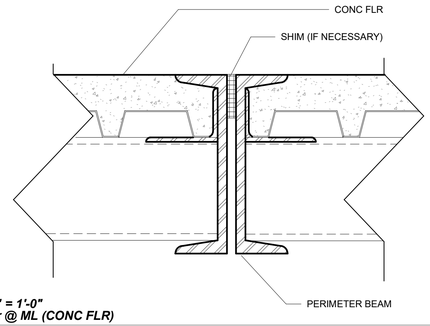


NOTE: INSULATION TO WRAP ALL FOUR SIDES

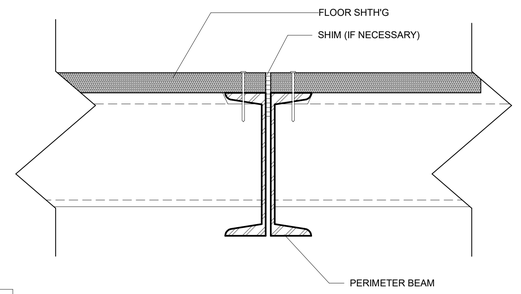
16 ***PASS THROUGH SEISMIC DOOR OPENING***



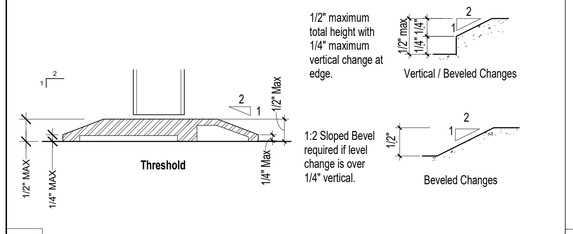
5 *3" = 1'-0"*
Flr @ 6" SEP. ML (WD FLR)



10 *3" = 1'-0"*
Flr @ ML (CONC FLR)

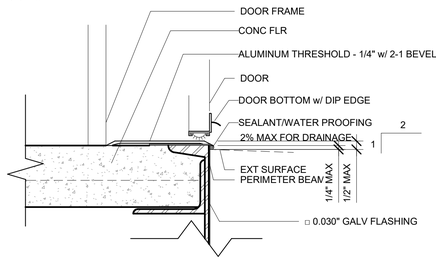


4 *3" = 1'-0"*
Flr @ ML (WD FLR)



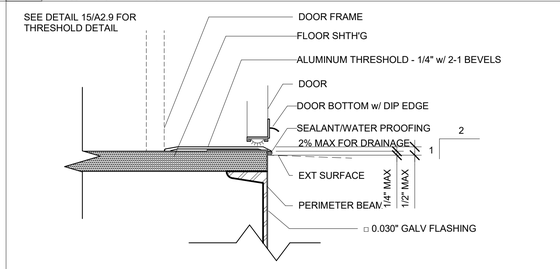
15 *1/4" = 1'-0"*
THRESHOLD DETAIL

SEE DETAIL 15/A2.9 FOR THRESHOLD DETAIL

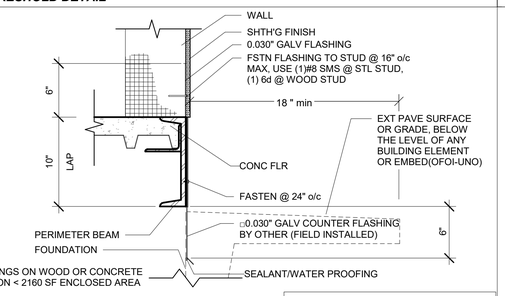


9 *3" = 1'-0"*
*Typ Sill Plate @ Threshold (CONC FLR)**

SEE DETAIL 15/A2.9 FOR THRESHOLD DETAIL

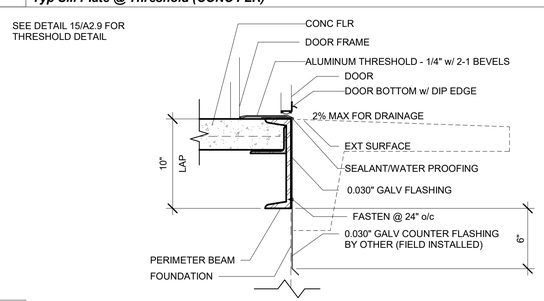


3 *3" = 1'-0"*
*Typ Sill Plt @ Threshold (WD FLR)**



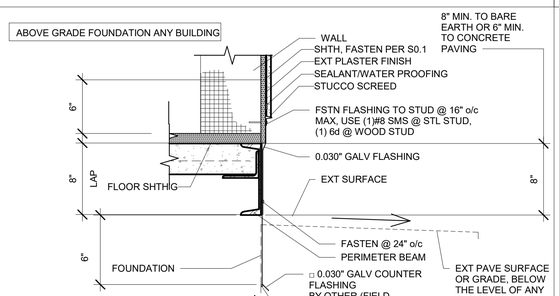
14 *1 1/2" = 1'-0"*
Typ Skirt @ Fnd SHTH'G FIN

SEE DETAIL 15/A2.9 FOR THRESHOLD DETAIL



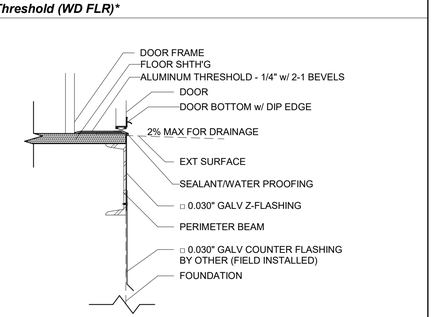
8 *1 1/2" = 1'-0"*
*Threshold @ Fnd (CONC FLR)**

ABOVE GRADE FOUNDATION ANY BUILDING

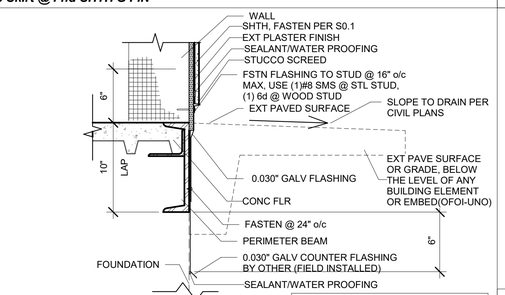


13 *1 1/2" = 1'-0"*
Typ Skirt @ Fnd PLSTR FIN

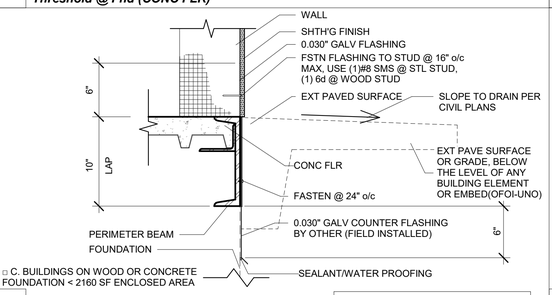
SEE DETAIL 15/A2.9 FOR THRESHOLD DETAIL



2 *1 1/2" = 1'-0"*
*Threshold @ Fnd (WD FLR)**

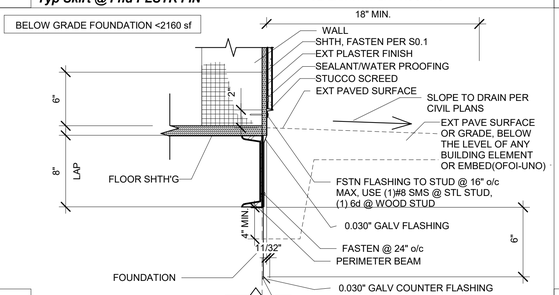


12 *1 1/2" = 1'-0"*
*Typ Skirt @ Fnd PLSTR FIN (CONC FLR)**

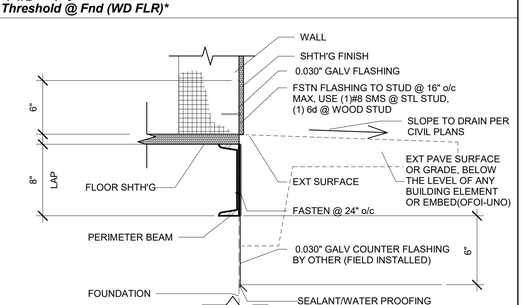


7 *1 1/2" = 1'-0"*
*Typ Skirt @ Fnd SHTH'G FIN (CONC FLR)**

BELOW GRADE FOUNDATION <2160 sf



6 *1 1/2" = 1'-0"*
*Typ Skirt @ Fnd PLSTR FIN (WD FLR)**



BELOW GRADE FOUNDATION <2160 sf

1 *1 1/2" = 1'-0"*
*Typ Skirt @ Fnd SHTH'G FIN (WD FLR)**

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ♦ CONSULTING ♦ PROJECT MGT
11590 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRANCISCO
No. C-53380
03/31/24
CIVIL
STRUCTURAL
STATE OF CALIFORNIA
RST#22088
02/16/24

THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEVISED SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. ©

CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
ARCHITECTURAL DETAILS (FLOOR)

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE

SHEET NO.
A2.9

SHEET OF

6/15/2021 11:50:20 PM C:\Users\User\Documents\20093 - Aries, 24x40 PC - MainFile - Low Seismic_6-7_CES4R24D63.rvt

MOISUTRE AND TERMITE BARRIER MEMBRANE FLASHING INSTALLATION REQUIREMENTS

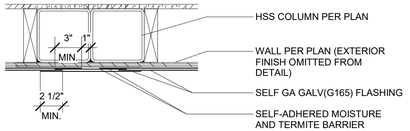
- ALL SURFACES SHALL BE CLEAN (FREE OF DIRT, DUST, OIL AND OTHER DEBRIS) PRIOR TO APPLICATION OF THE ADHESIVE AND MEMBRANE.
- ALL SURFACE VOIDS GREATER THAN 1/8" IN WIDTH SHALL BE FILLED WITH SEALANT PRIOR TO INSTALLATION.
- APPLY LIQUID ADHESIVE TO ALL SURFACES WHICH WILL RECEIVE THE FLASHING BARRIER.
- CUT PIECES OF MEMBRANE TO LENGTH AS NEEDED AND APPLY TO SUBSTRATE ONCE THE INSTALLER SHALL VERIFY THAT THE ADHESIVE IS STILL TACKY TO THE TOUCH, IF NECESSARY A SECOND LAYER OF ADHESIVE SHALL BE PROVIDED.
- INSTALL MEMBRANE IN A HORIZONTAL ORIENTATION.
- WHERE A HORIZONTAL LAP OCCURS, THE JOINTS SHALL BE LAPPED 2 1/2 INCHES MINIMUM.
- AT BUILDING CORNERS THE MEMBRANE SHALL BE WRAPPED AROUND THE CORNER AND SHALL EXTEND NO LESS THAN 6" BEYOND THE CORNER PRIOR TO LAPPING ANOTHER SHEET. SEE 5/-
- WHERE ARE MODULE JOINT (MODLINE) OCCURS THE FACTORY INSTALLED MEMBRANE SHALL BE TERMINATED WITHIN 1" OF THE EDGE OF THE MODULE. A FIELD INSTALLED MEMBRANE PIECE SHALL BE APPLIED FOLLOWING THE INSTALLATION OF THE MODULES ON THE FOUNDATION. THE FIELD INSTALLED MEMBRANE PIECE SHALL LAP THE FACTORY INSTALLED MEMBRANE 3" MINIMUM AT EACH END.
- WHERE A VERTICAL LAP OCCURS THE UPPER MEMBRANE LAYER SHALL BE LAPPED OVER THE LOWER MEMBRANE LAYER 6" MINIMUM.
- THE MEMBRANE SHALL BE ROLLED FIRMLY INTO PLACE USING HAND ROLLER.
- APPLY MASTIC OR SEALANT TO TERMINATING EDGES AND AROUND PIPES OR OTHER PENETRATIONS.
- WHERE THE SURFACES ARE OFFSET MORE THAN 1/8" OUT-OF-PLANE PROVIDE SEALANT OR ANOTHER STABLE MATERIAL TO TRANSITION BETWEEN THE SURFACES.
- WHERE A HORIZONTAL LAP OCCURS IN THE GALVANIZED FLASHING THE JOINTS SHALL BE LAPPED 2 1/2" MINIMUM.
- REFER TO 6/- DETAIL FOR MODLINE DETERIORATION PROTECTION

REPAIR REQUIREMENTS

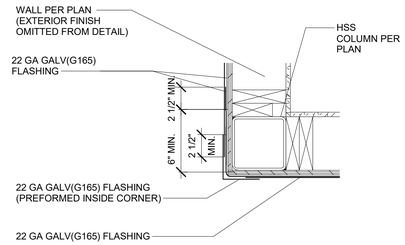
WHERE DAMAGE OCCURS, THE REPAIRS SHALL BE AS FOLLOWS:
1. WHERE THE DAMAGE MEASURES LESS THAN 1/2" IN ANY DIRECTION THE PUNCTURE SHALL BE SEALED WITH MASTIC.
2. WHERE THE DAMAGE MEASSURE MORE THAN 1/2", BUT LESS THAN 2", IN ANY DIRECTION PATCH SHALL BE INSTALLED OVER THE DAMAGE USING THE SAME MEMBRANE MATERIAL. THE PATCH SHALL OVERLAP 4" MINIMUM IN ALL DIRECTION.
3. WHERE THE DAMAGE MEASURES MORE THAN 2" IN ANY DIRECTION THE DAMAGED PORTION SHALL BE REMOVE AND A PIECE OF MEMBRANE 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 MEMBRANE FLASHING. THE ADHESIVE AND MEMBRANE SHALL BE INSTALLED IN ACCORDANCE WITH THESE INSTALLATION INSTRUCTIONS. ALL OVERLAPS SHALL BE AS INDICATED WITHIN THIS DRAWING PACKAGE. THE MEMBRANE 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 MEMBRANE FLASHING. THE FACTORY INSTALLED MEMBRANE SHOULD BE INVESTIGATED TO DETERMINE IF ANY DAMAGE OCCURRED DURING MODULE SHIPMENT/INSTALLATION PRIOR TO PROCEEDING WITH THE SITE INSTALLED MEMBRANE PLACEMENT. THE ADHESIVE AND MEMBRANE SHALL BE INSTALLED IN ACCORDANCE WITH THESE INSTALLATION INSTRUCTIONS. ALL OVERLAPS SHALL BE AS INDICATED WITHIN THIS DRAWING PACKAGE. THE MEMBRANE SHALL BE LAPPED ONTO THE FOUNDATION WALL AS INDICATED WITHIN THIS DRAWING PACKAGE. THE GALVANIZED FLASHING SHALL BE INSTALLED OVER THE MEMBRANE. 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.

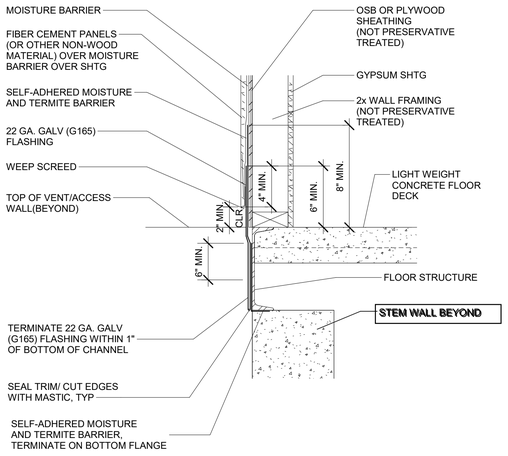


6 ***DETERIORATION PROTECTION @ MODLINE***



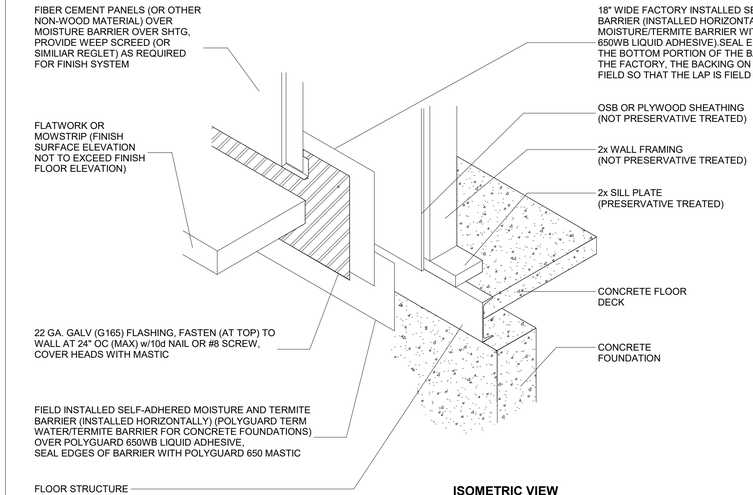
OUTSIDE CORNER

5 ***DETERIORATION PROTECTION- CORNER CONDITIONS***



SEE DETAIL 1/- FOR MORE INFO ON FLASHING & DETERIORATION PROTECTION

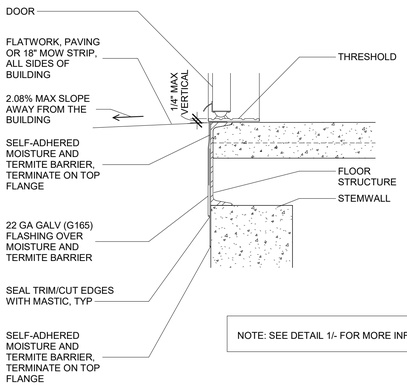
4 ***EXTERIOR WALL SILL @ VENT/ACCESS***



ISOMETRIC VIEW

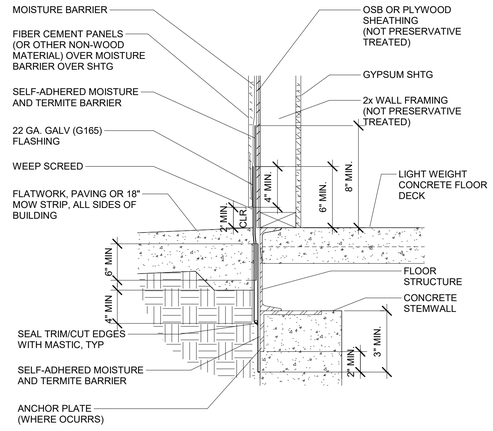
NOTE: SEE DETAIL 7/- FOR DETERIORATION PROTECTION REQUIREMENTS

7 ***DETERIORATION PROTECTION REQUIREMENTS1***



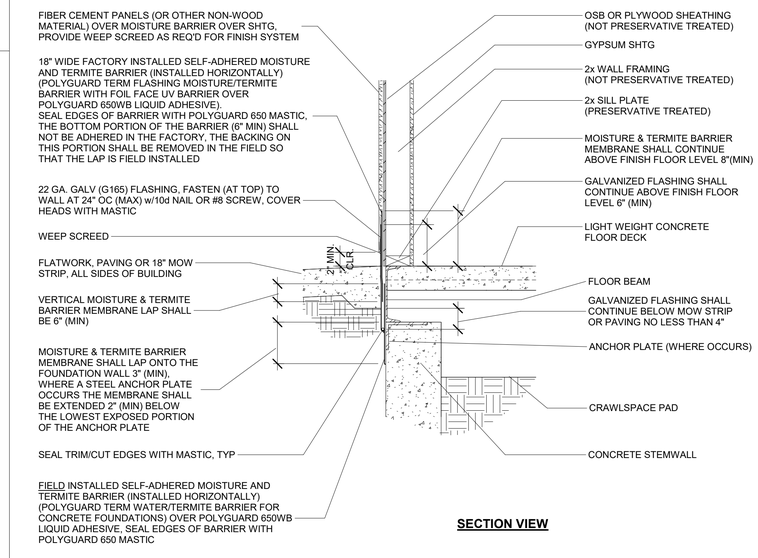
NOTE: SEE DETAIL 1/- FOR MORE INFORMATION

3 ***DETERIORATION PROTECTION @ THRESHOLD***



NOTE: SEE DETAIL 1/- FOR MORE INFORMATION ON FLASHING * DETERIORATION PROTECTION

2 ***TYPICAL EXTERIOR WALL SILL***



SECTION VIEW

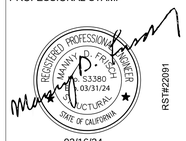
NOTE: WHERE THE EXTERIOR GRADE IS BELOW THE TOP OF THE FOUNDATION WALL AND THE BOTTOM OF THE FOUNDATION ANCHOR PLATE(S)(WHERE OCCURS) THE FLASHING AND MEMBRANE OCCRUING BELOW GRADE MAY BE OMITTED.

1 ***DETERIORATION PROTECTION***

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
11590 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP



02/16/24

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CLIENT

Class Leasing
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Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

DETERIORATION PROT.NON-WOOD FINISH SIDING CONC FLOOR - WD STUDS

PROJECT NUMBER 22088

DRAWN BY MJM

CHECKED BY RH/rMc

DATE 10/31/2022

SHEET NO. A2.9.1

SHEET OF

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MOISTURE AND TERMITE BARRIER MEMBRANE FLASHING INSTALLATION REQUIREMENTS

- ALL SURFACES SHALL BE CLEAN (FREE OF DIRT, DUST, OIL AND OTHER DEBRIS) PRIOR TO APPLICATION OF THE ADHESIVE AND MEMBRANE.
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- WHERE A HORIZONTAL LAP OCCURS, THE JOINTS SHALL BE LAPPED 2 1/2 INCHES MINIMUM.
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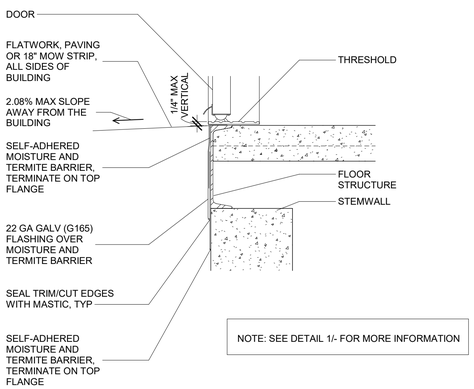
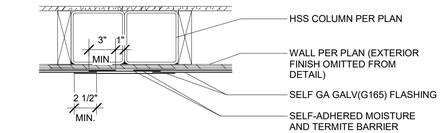
7 ***DETERIORATION PROTECTION REQUIREMENTS***

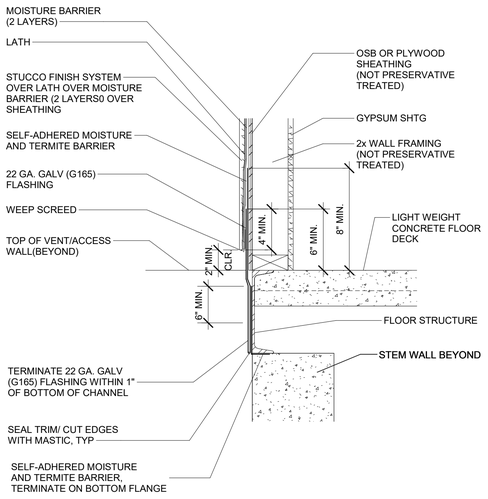


NOTE: SEE DETAIL 1/- FOR MORE INFORMATION

3 ***DETERIORATION PROTECTION @ THRESHOLD***

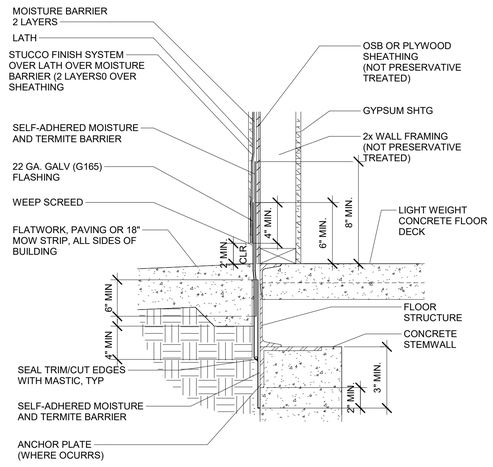


6 ***DETERIORATION PROTECTION @ MODLINES***



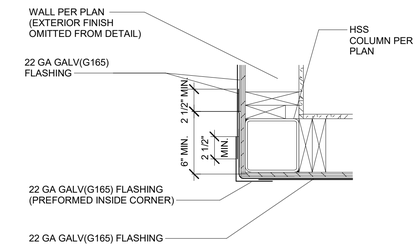
SEE DETAIL 1/- FOR MORE INFO ON FLASHING & DETERIORATION PROTECTION

4 ***EXTERIOR WALL SILL @ VENT/ACCESS***



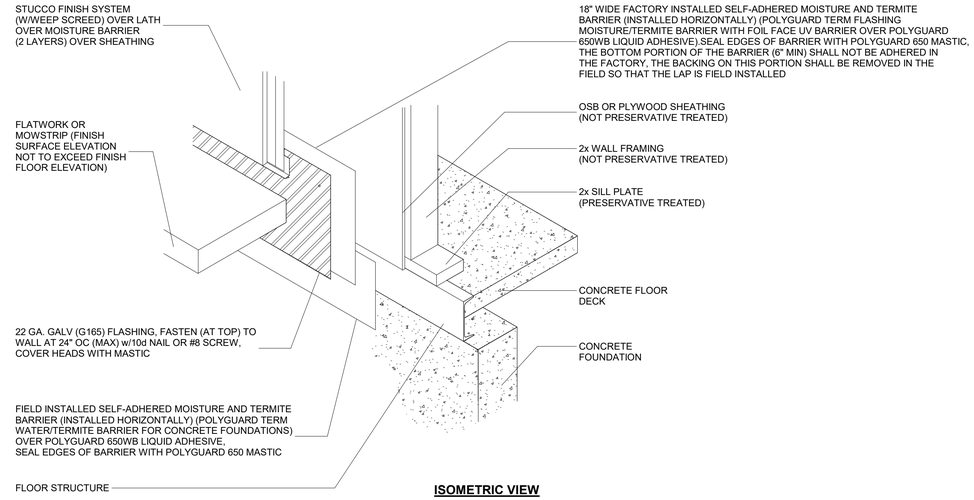
NOTE: SEE DETAIL 1/- FOR MORE INFORMATION ON FLASHING * DETERIORATION PROTECTION

2 ***TYPICAL EXTERIOR WALL SILL***



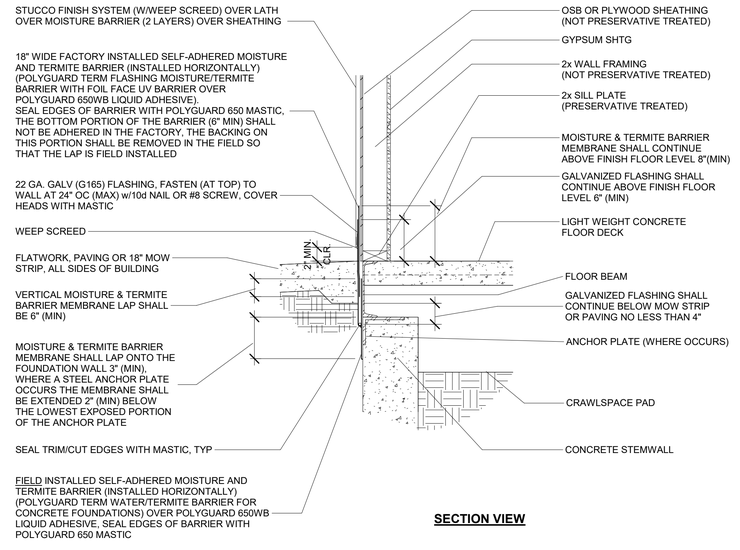
OUTSIDE CORNER

5 ***DETERIORATION PROTECTION- CORNER CONDITIONS***



ISOMETRIC VIEW

NOTE: SEE DETAIL 7/- FOR DETERIORATION PROTECTION REQUIREMENTS



SECTION VIEW

NOTE: WHERE THE EXTERIOR GRADE IS BELOW THE TOP OF THE FOUNDATION WALL AND THE BOTTOM OF THE FOUNDATION ANCHOR PLATE(S)(WHERE OCCURS) THE FLASHING AND MEMBRANE OCCRUING BELOW GRADE MAY BE OMITTED.

1 ***DETERIORATION PROTECTION***

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ♦ CONSULTING ♦ PROJECT MGT
11590 W Bernardo Court, Suite 100
San Diego, CA 92127
www.rstavares.com

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRAGA
No. 53380
03/31/24
STRUCTURAL
STATE OF CALIFORNIA
RST#22091
02/16/24

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CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
DETORIORATION PRO. STUCCO EXTERIOR RINISH CONC FLOOR-WD STUDS

PROJECT NUMBER
22088

DRAWN BY
MJM

CHECKED BY
RH/rMc

DATE
10/31/2022

SHEET NO.
A2.9.2

SHEET OF

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MOISUTRE AND TERMITE BARRIER MEMBRANE FLASHING INSTALLATION REQUIREMENTS

- ALL SURFACES SHALL BE CLEAN (FREE OF DIRT, DUST, OIL AND OTHER DEBRIS) PRIOR TO APPLICATION OF THE ADHESIVE AND MEMBRANE.
- ALL SURFACE VOIDS GREATER THAN 1/8" IN WIDTH SHALL BE FILLED WITH SEALANT PRIOR TO INSTALLATION.
- APPLY LIQUID ADHESIVE TO ALL SURFACES WHICH WILL RECEIVE THE FLASHING BARRIER.
- CUT PIECES OF MEMBRANE TO LENGTH AS NEEDED AND APPLY TO SUBSTRATE ONCE THE INSTALLER SHALL VERIFY THAT THE ADHESIVE IS STILL TACKY TO THE TOUCH, IF NECESSARY A SECOND LAYER OF ADHESIVE SHALL BE PROVIDED.
- INSTALL MEMBRANE IN A HORIZONTAL ORIENTATION.
- WHERE A HORIZONTAL LAP OCCURS, THE JOINTS SHALL BE LAPPED 2 1/2 INCHES MINIMUM.
- AT BUILDING CORNERS THE MEMBRANE SHALL BE WRAPPED AROUND THE CORNER AND SHALL EXTEND NO LESS THAN 6" BEYOND THE CORNER PRIOR TO LAPPING ANOTHER SHEET. SEE 5/-
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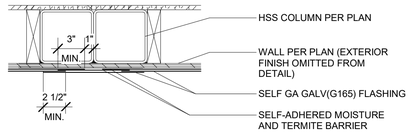
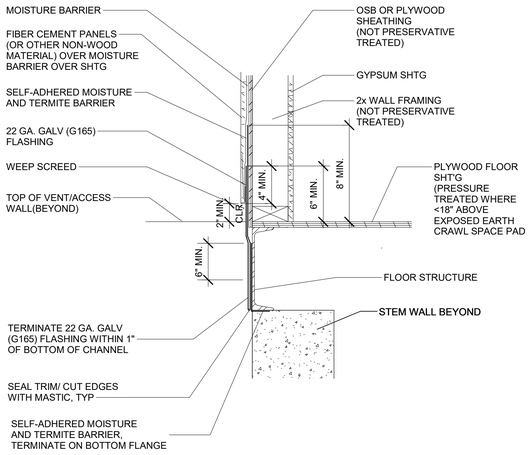
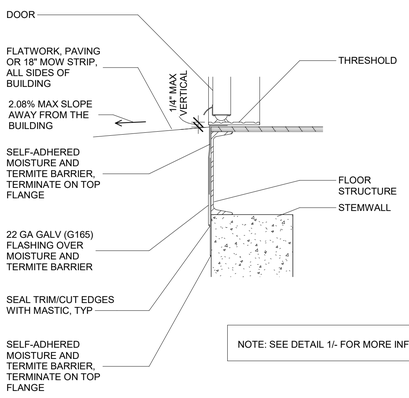


6 ***DETERIORATION PROTECTION @ MODLINES***



SEE DETAIL 1/- FOR MORE INFO ON FLASHING & DETERIORATION PROTECTION

4 ***EXTERIOR WALL SILL @ VENT/ACCESS***



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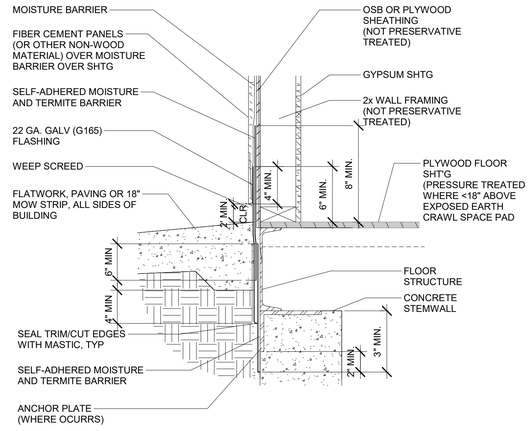
3 ***DETERIORATION PROTECTION @ THRESHOLD***



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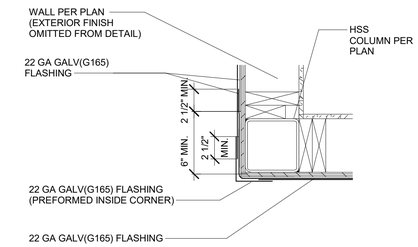
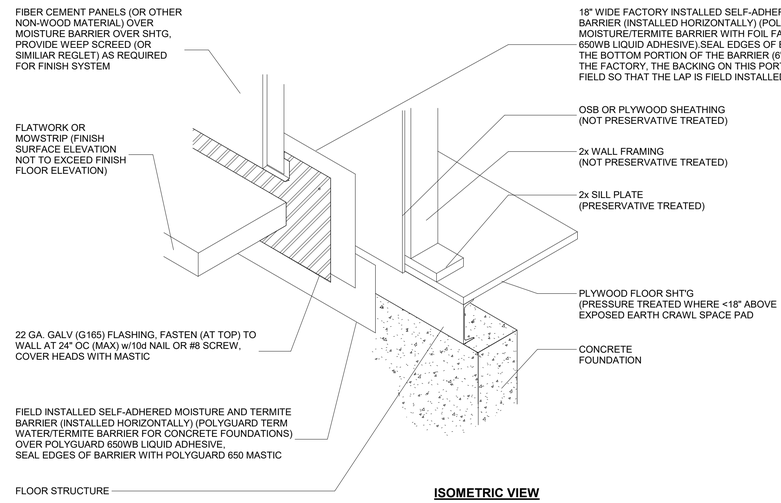


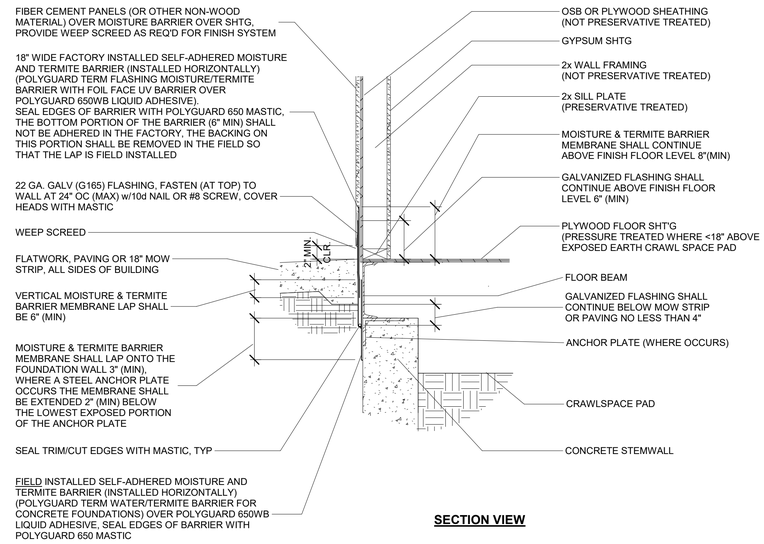
OUTSIDE CORNER

5 ***DETERIORATION PROTECTION- CORNER CONDITIONS***



ISOMETRIC VIEW

NOTE: SEE DETAIL 7/- FOR DETERIORATION PROTECTION REQUIREMENTS



SECTION VIEW

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1 ***DETERIORATION PROTECTION***

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ♦ CONSULTING ♦ PROJECT MGT
11590 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
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SHEET TITLE

DETERIORATION PRO. NON-WOOD FINISH SIDING WOOD FLOOR - WD STUDS

PROJECT NUMBER 22088

DRAWN BY MJM

CHECKED BY RH/rMc

DATE 10/31/2022

SHEET NO. A2.9.3

SHEET OF

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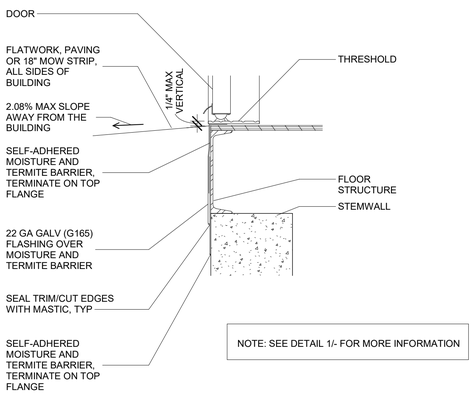

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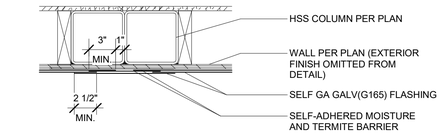
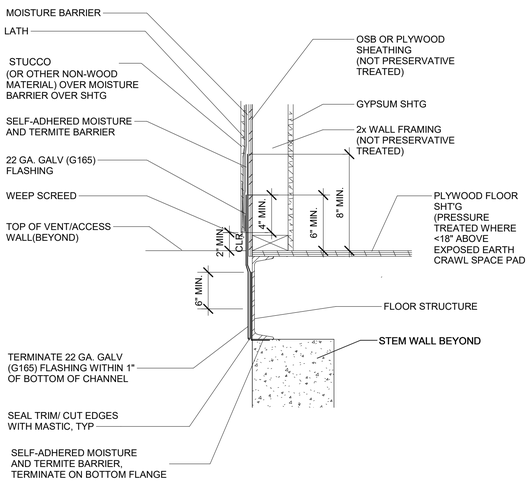


6 DETERIORATION PROTECTION @ MODLINES



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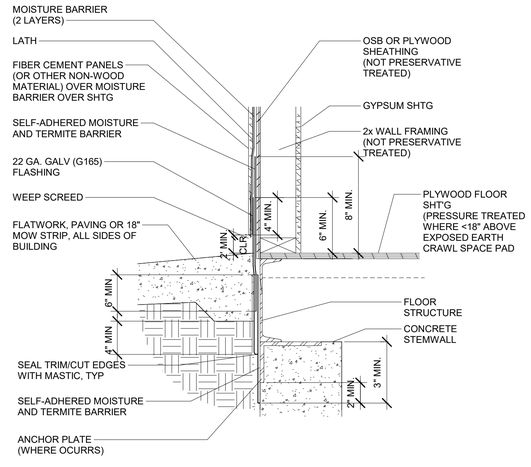

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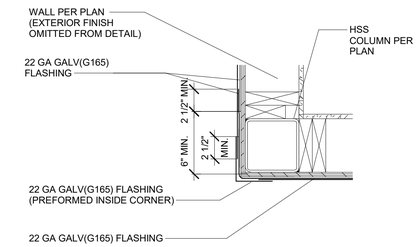

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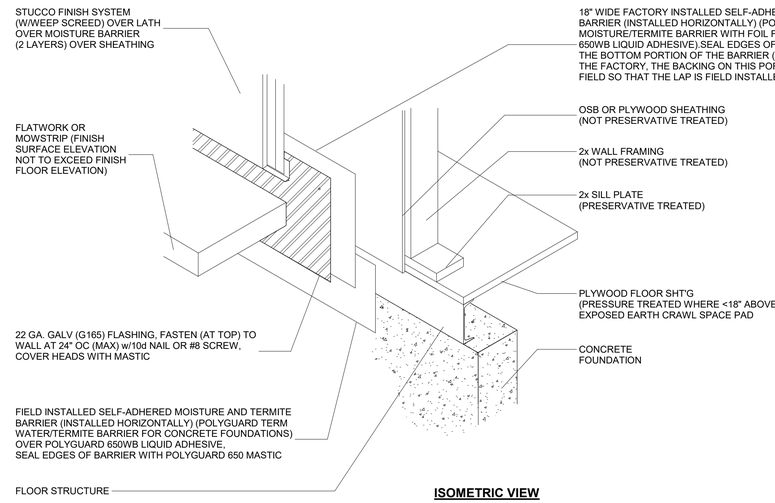

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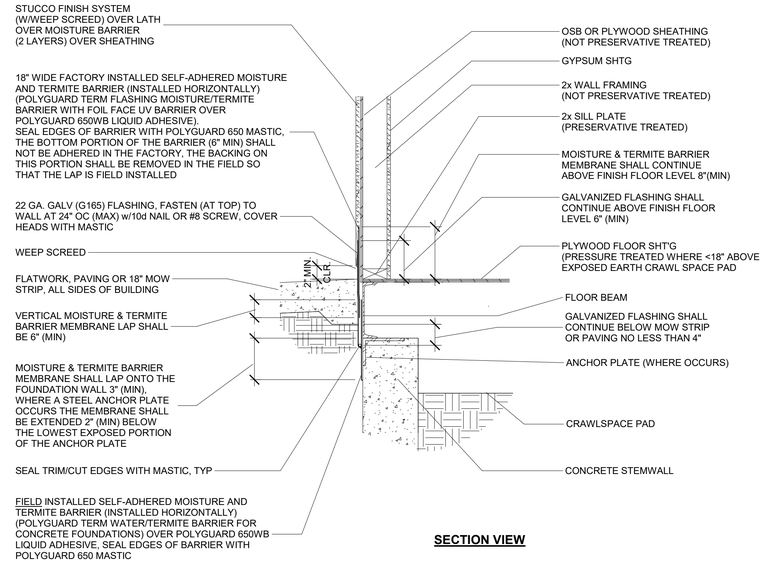

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SAN DIEGO, CA 92127
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PROJECT NUMBER 22088

DRAWN BY MJM

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SHEET OF

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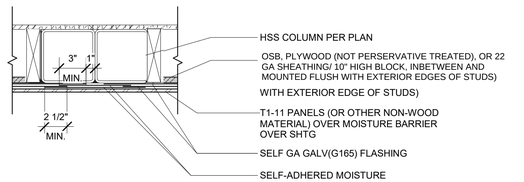
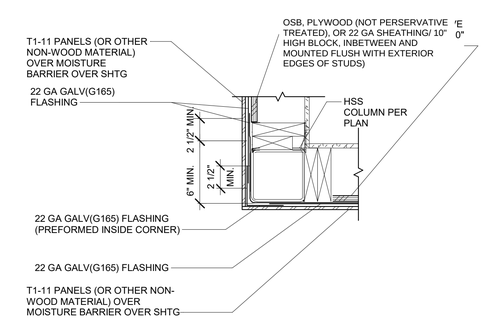
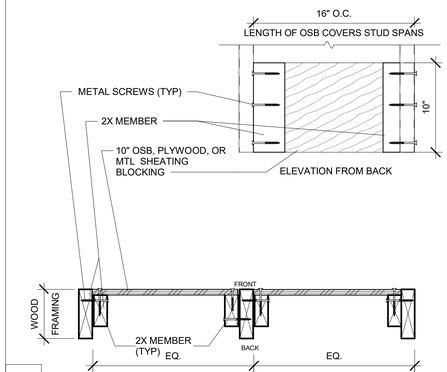


6 ***DETERIORATION PROTECTION @ MODLINES***

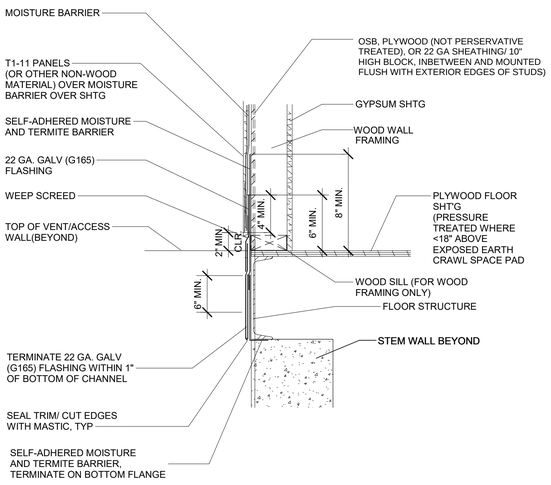


OUTSIDE CORNER

5 ***DETERIORATION PROTECTION- CORNER CONIDITIONS***

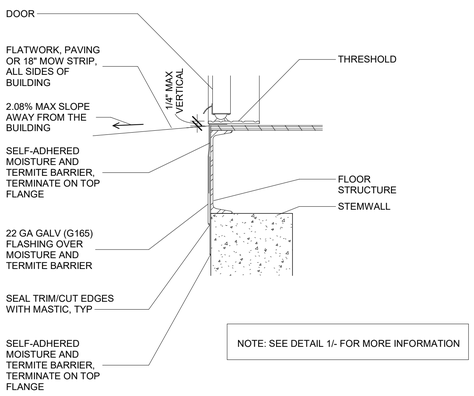


8 ***1 1/2" = 1'-0"***
BLOCKING FOR T1-11



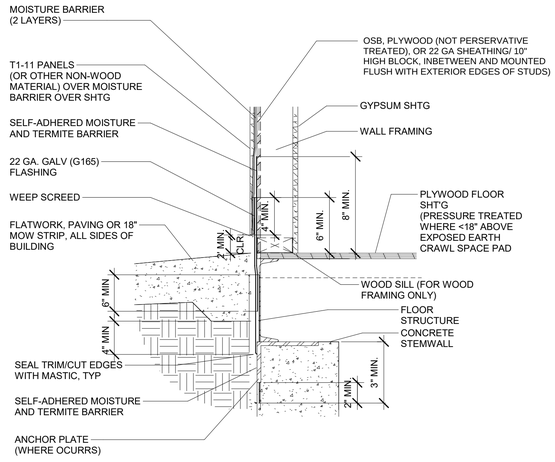
SEE DETAIL 1/- FOR MORE INFO ON FLASHING & DETERIORATION PROTECTION

4 ***EXTERIOR WALL SILL @ VENT/ACCESS***



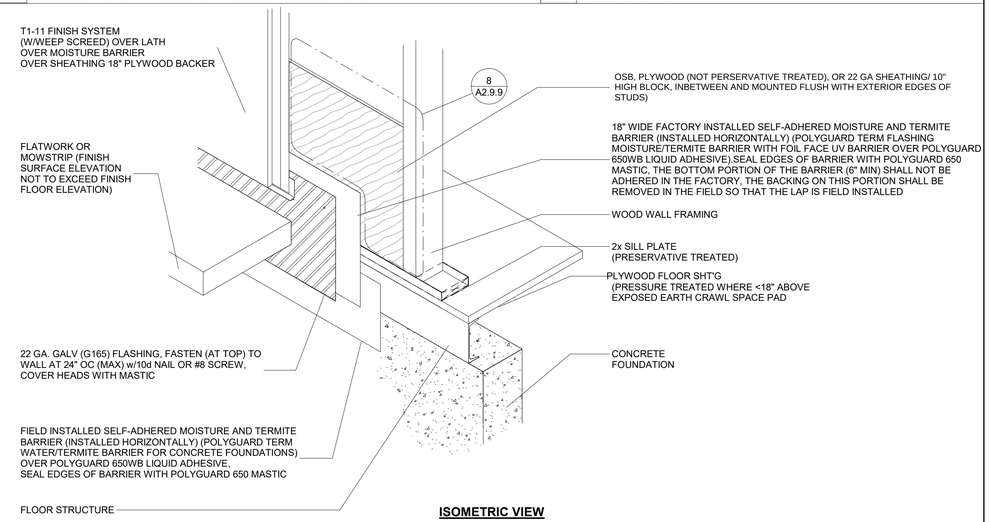
NOTE: SEE DETAIL 1/- FOR MORE INFORMATION

3 ***DETERIORATION PROTECTION @ THRESHOLD***



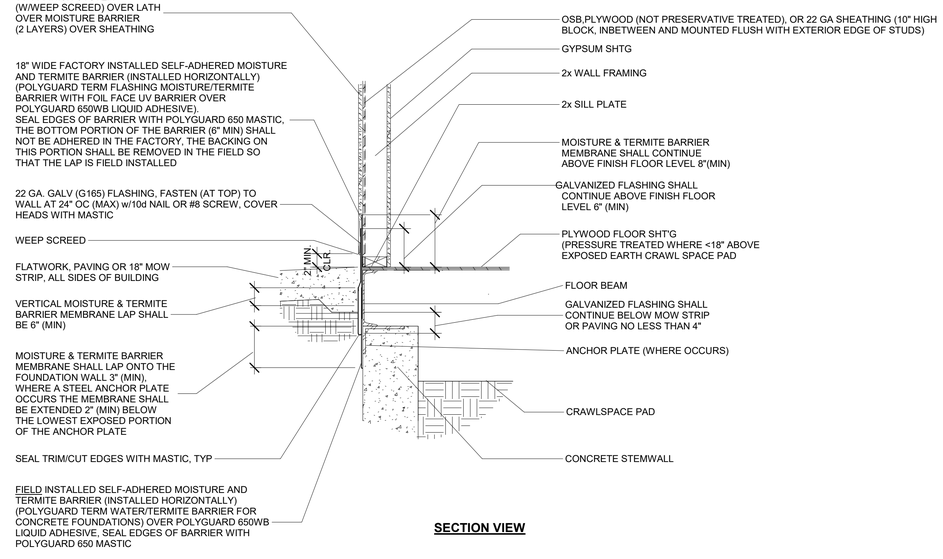
NOTE: SEE DETAIL 1/- FOR MORE INFORMATION ON FLASHING * DETERIORATION PROTECTION

2 ***TYPICAL EXTERIOR WALL SILL***



ISOMETRIC VIEW

NOTE: SEE DETAIL 7/- FOR DETERIORATION PROTECTION REQUIREMENTS



SECTION VIEW

NOTE: WHERE THE EXTERIOR GRADE IS BELOW THE TOP OF THE FOUNDATION WALL AND THE BOTTOM OF THE FOUNDATION ANCHOR PLATE(S)(WHERE OCCURS) THE FLASHING AND MEMBRANE OCCRUING BELOW GRADE MAY BE OMITTED.

1 ***DETERIORATION PROTECTION***

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ♦ CONSULTING ♦ PROJECT MGT
11590 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER MANNY D. FRAGOSO No. 53380 03/31/24 STRUCTURAL STATE OF CALIFORNIA

RST#22091

02/16/24

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CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

DETERIORATION T1-11 EXTERIOR FINISH WOOD FLR -WOOD STUDS

PROJECT NUMBER 22088

DRAWN BY MJM

CHECKED BY RH/rMc

DATE 10/31/2022

SHEET NO. A2.9.9

SHEET OF

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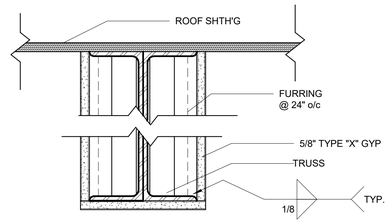
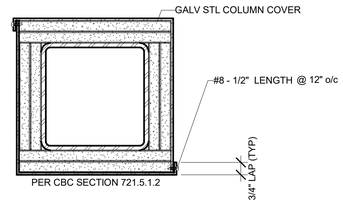
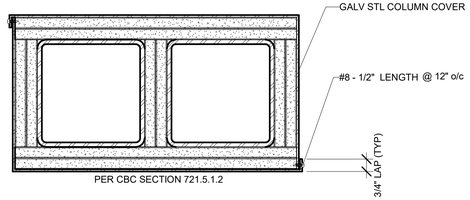
8/3/2021 2:07:21 PM



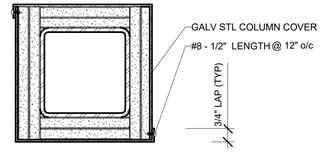
5 ***3" = 1'-0"***
TRUSS @ MATELINE (1-HOUR FIRE RATING)



4 ***3" = 1'-0"***
6x6 HSS COL @ CORNER (1-HOUR RATING)



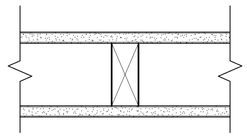
8 ***3" = 1'-0"***
6x6 HSS COL @ ML (1-HOUR RATING)



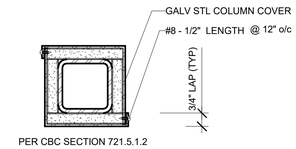
3 ***3" = 1'-0"***
5x5 HSS COL @ CORNER (1-HOUR RATING)

#WP3510

THICKNESS:	4-7/8"	INTERIOR ASSEMBLE:
APPROXIMATE WEIGHT:	7 PSF	2x WOOD STUD @ 16" o/c w/
FIRE TEST:	UL R3501-47, -48,9-17-65, DESIGN U309, UL R1319-129, 7-22-70, DESIGN U314	(1)LAYER 5/8" TYPE "X" GYPSUM WALLBOARD PARALLEL OR @ RIGHT ANGLES TO STUDS w/ 6d COATED NAIL, 1 7/8" LONG, 0.0915" SHANK, 1/4" HEADS @ 6" o/c
SOUND TEST:	NGC 2404, 10-14-70	ALL JOINSTS STAGGERED 24" o/c EA SIDE.



7 ***3" = 1'-0"***
WALL ASSEMBLE @ INT PARTITION (1-HOUR RATED)



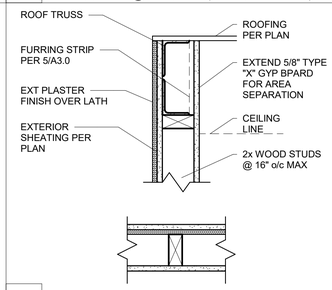
2 ***3" = 1'-0"***
3x3 HSS COL @ MIDSPAN (1-HOUR RATING)

703.7 Marking and Identification

Where there is an accessible concealed floor, floor-ceiling or *attic* space, *fire walls*, *fire barriers*, *fire partitions*, *smoke barriers* and smoke partitions or any other wall required to have protected openings or penetrations shall be effectively and permanently identified with signs or stenciling in the concealed space. Such identification shall:

1. Be located within 15 feet (4572 mm) of the end of each wall and at intervals not exceeding 30 feet (9144 mm) measured horizontally along the wall or partition.
2. Include lettering not less than 3 inches (76 mm) in height with a minimum $^{3}/_{8}$-inch (9.5 mm) stroke in a contrasting color incorporating the suggested wording, "FIRE AND/OR SMOKE BARRIER—PROTECT ALL OPENINGS," or other wording.

6 ***2019 CBC 703.7 - MARKING AND IDENTIFICATION***



SEE ARCH DETAIL SHEETS FOR 1 HOUR FIRE RATING FOR MORE NOTES

EXTERIOR ASSEMBLE:
2x WOOD STUD @ 16" o/c w/
7/8" CEMENT (STUCCO) PLASTER OVER LATH ATTACHED TO 1/2" PW SHEATHING SURFACE.

INTERIOR ASSEMBLE:
2x WOOD STUD @ 16" o/c w/
(1)LAYER 5/8" TYPE "X" GYPSUM WALLBOARD PARALLEL OR @ RIGHT ANGLES TO STUDS w/ 6d COATED NAIL, 1 7/8" LONG, 0.0915" SHANK, 1/4" HEADS @ 6" o/c
ALL JOINSTS STAGGERED 24" o/c EA SIDE.

1 ***1 1/2" = 1'-0"***
WALL ASSEMBLE (1-HOUR RATED)

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ♦ CONSULTING ♦ PROJECT MGT
11590 W Bernardo Court, Suite 100
San Diego, CA 92127
www.rstavares.com

PROFESSIONAL STAMP

02/16/24

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CLIENT

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1651Juanita Street, San Jacinto, CA 92583
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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

ADDITIONAL FIRE RATING DETAILS AND NOTES

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE

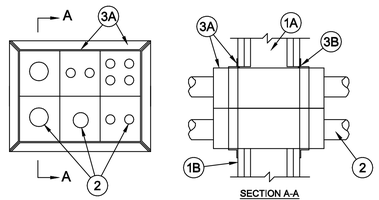
SHEET NO.
A3.0

SHEET OF

6/15/2021 11:50:45 PM C:\Users\User\Documents\20093 - Aries, 24x40 PC - MainFile - Low Seismic_6.7_CESAR24D63.rvt

5/31/2022 7:23:55 AM \\192.168.10.2\Clients\2022\22073 - Class Leasing, El Dorado Cty OE - S Lake Tahoe MS 160lb Snow load\#Main Files\REVITRST#22073 - Class Leasing_PC 24x40 to 120x40 HS_Eldorado Cty OE - 160# Snow Load_MainFile_detached.rvt

System No. W-L-2448
February 26, 2008
F Ratings – 1 or 2 Hr (See Item 1)
T Rating – 0 Hr
L Rating At Ambient – 4 CFM/sq ft. (See Item 3B)
L Rating At 400 F – Less Than 1 CFM/sq ft. (See Item 3B)



SECTION A-A

1. **Wall Assembly**– The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs** – Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 3-1/2 in. wide and spaced 24 in. OC.
   B. **Gypsum Board** – The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory. Max area of opening is 98.5 in.2 (635 cm2) with a max dimension of 12-1/8 in. (308 mm) for square devices. Max diam of opening is 2-1/4 in. (57 mm) for nom 2 in. (51 mm) round devices and 4-1/4 in. (108 mm) for 4 in. (102 mm) round devices.

   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. **Through Penetrants** – One or more nonmetallic pipes, conduits or tubes, as described in a single line item below, may be installed concentrically or eccentrically within each firestop device (Item 3A) without any limitations on annular space. If multiple through penetrations are installed within the firestop device, the through penetrants may be bundled together. Through penetrants to be rigidly supported on both sides of wall assembly. The following types and sizes of through penetrants may be used:
   A. **Polyvinyl Chloride (PVC) Pipe** – One nom 2 in. (51 mm) diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
   B. **Rigid Nonmetallic Conduit** – One nom 2 in. (51 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with Article 352 of the National Electrical Code (NFPA No. 70).

      See **Rigid Nonmetallic, Schedule 40 and 80 PVC Conduit** (DQYR) category in the Electrical Construction Equipment Directory for names of manufacturers.
   C. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** – One nom 2 in. (51 mm) diam (or smaller) SDR11 CPVC pipe for use in closed (process or supply) piping systems.
   D. **Crosslinked Polyethylene (PEX) Tubing** – One nom 2 in. (51 mm) diam (or smaller) SDR 9 PEX tubing for use in closed (process or supply) piping systems.
   E. **Electrical Nonmetallic Tubing (ENT)** – Max four nom 1-1/4 in. (32 mm) diam (or smaller) ENT installed in accordance with Article 362 of the National Electrical Code (NFPA No. 70).

      See **Electrical Nonmetallic Tubing** (QKHU) category in the Electrical Construction Equipment Directory for names of manufacturers.
   F. **Optical Fiber/Communications/Signaling/Coaxial Cable Raceway** – Max four nom 1-1/4 in. (32 mm) diam (or smaller) plenum rated raceways installed in accordance with the National Electrical Code (NFPA No. 70).

      See **Optical Fiber/Communications/Signaling/Coaxial Cable Raceway** (QVZM) category in the Electrical Construction Equipment Directory for names of manufacturers.
   G. **Acrylonitrile Butadiene Styrene (ABS) Pipe** – Nom 2 in. (51 mm) diam (or smaller) Schedule 40 solid or cellular core ABS for use in closed (process or supply) or vented (drain, waste or vent) piping systems
3. **Firestop System** – The firestop system shall consist of the following:
   A. **Firestop Device** – A max of six square firestop devices may be ganged together. As an alternate, one round device may be centered within a round opening. Each device consists of a nom 2-1/2 by 2-1/2 by 10 in. (64 by 64 by 254 mm), a nom 4 by 4 by 10 in. (102 by 102 by 254 mm), a nom 2 in. (51 mm) diam by 10 in. (254 mm) or a nom 4 in. (102 mm) diam by 10 in. (254 mm) powder coated steel transit incorporating internal intumescent material, foam plugs and mounting flanges. Firestop device(s) to be installed within opening with ends projecting an equal distance beyond each surface of wall assembly in accordance with the accompanying installation instructions. The annular space between device(s) and periphery of opening shall be min 0 in. (0 mm, point contact) to max 1/8 in. (3 mm). Firestop device(s) secured in place by means of fill material (Item 3B) and steel split mounting flanges sized to accommodate the firestop device. Steel split mounting flanges installed on both sides of wall after installation of fill material, and secured together with supplied steel set screws. Nom 1 in. (25 mm) thick pre-cut foam plugs sized to accommodate the through penetrant(s) and installed flush with each end of device on both sides of wall assembly.

      3M COMPANY – 3M Fire Barrier Pass-Through Device
   B. **Fill, Void or Cavity Materials_ Putty or Caulk** – Min 1/8 in. (3 mm) bead of fill material shall be applied at interface of gypsum board and firestop devices immediately prior to the installation of the mounting flanges. As an option, foam plugs may be recessed into device and the recess filled with fill material flush with the ends of the device. If three or less devices (Item 3A) are ganged together, the fill material may be optional. L Rating applies only when fill material is applied at interface of gypsum board and device(s) prior to mounting flanges and with both ends of firestop device(s) filled with nominal 1/8 in. (3.2 mm) of Moldable Putty+.

      3M COMPANY – Moldable Putty+, CP 25WB+, IC 15WB+, 3000 WT

+ Bearing the UL Listing Mark
*Bearing the UL Classification Mark

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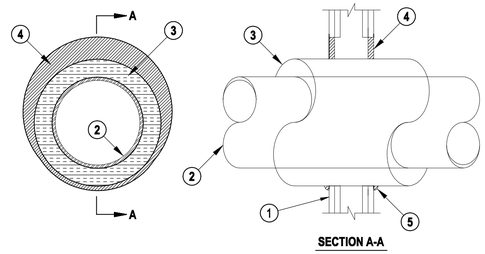
Reproduced by Hilti Firestop Systems
Courtesy of Underwriters Laboratory, Inc.
Through-Penetration Firestop Systems

System No. WL 5029
F-Rating - 1 or 2 Hr (See Item 1)
T-Rating - $\frac{3}{4}$, 1, 1-$\frac{1}{4}$ and 1-$\frac{1}{2}$ Hr (See Item 3)
L Rating at Ambient = 4 CFM/Sq.Ft.
L Rating at 400°F = Less Than 1 CFM/Sq.Ft.

February 8, 2006



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced 24 in. OC.
B. Gypsum Board* — 5/8 in. thick, 4 ft wide, with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 18-5/8 in.
The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrants — One metallic pipe or tubing to be centered within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
A. Steel Pipe — Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Conduit — Nom 6 in. diam (or smaller) Schedule 40 steel conduit.
C. Copper Tubing — Nom 8 in. diam (or smaller) Type L (or heavier) copper tubing.
D. Copper Pipe — Nom 8 in. diam (or smaller) Regular (or heavier) copper pipe.
3. Pipe Covering** — Nom 1, 1-1/2 or 2 in. thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Trans-erse joints secured with metal fasteners or with butt tape supplied with the product.

See Pipe and Equipment Covering — Materials (SPKU) category in the Building Material Directory for the names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
The hourly T Rating of the firestop system is dependent on the hourly fire rating of the wall assembly in which it is installed, the size and type of through penetrant and the pipe covering thickness, as shown in the table below:

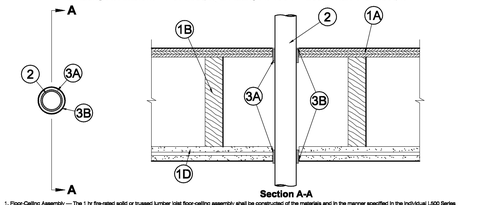
Wall Assembly Rating Hr	Through Penetrant		Pipe Covering Thkns In.	Annular Space		T Rating Hr
	Type +	Max Diam In.		Min In.	Max In.	
1	A	4	1	0	1-1/2	1/2
1	B or C	2	1 or 1-1/2	0	1-1/2	1/2
1	A	4	1-1/2	0	1-1/2	1
1	A	12	2	0	1-7/8	3/4
1	B or C	6	2	0	1-7/8	1
2	A	4	1	0	1-1/2	1
2	B or C	4	1 or 1-1/2	0	1-1/2	1
2	B or C	6	2	0	1-7/8	1
2	A	4	1-1/2	0	1-1/2	1-3/4
2	A	12	2	0	1-7/8	1-1/2
2	B or C	6	2	0	1-7/8	1

+Indicates penetrant type as itemized in Item 2.
3A. Pipe Covering** — (Not Shown) — As an alternate to item 3, min 2 in. thick cylindrical calcium silicate [min 14 pcf] units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 8 AWG stainless steel wire spaced max 12 in. OC. When the alternate pipe covering is used, the T Rating shall be determined from the table above.
See Pipe and Equipment Covering — Materials (SPKU) category in the Building Materials Directory for names of manufacturers. Any pipe co-ering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
4. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe covering and gypsum board, a min 1/8 in. diam bead of fill material shall be applied at the pipe covering/gypsum board interface on both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant
*Bearing the UL Classification Mark

Guide XHEZ
Through-Penetration Firestop Systems

(12/08/08)
F-C-2019 - A Card

System No. F-C-2019
F-Rating - 1 and 2 Hr (See Item 1); T-Rating - 1 and 2 Hr (See Item 1)
L Rating At Ambient - 1 CFM/sq ft; L Rating At 400 F - Less Than 1 CFM/sq ft



Section A-A

C. Floor-Ceiling Assembly — The 1 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L800 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The 2 hr fire-rated solid or trussed wood joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in Design Nos. L805, L811 or L836 in the UL Fire Resistance Directory. The F and T Ratings of the firestop system are equal to the hourly fire rating of the floor-ceiling assembly. The general construction features of the floor-ceiling assembly are summarized below:
1. Flooring System — Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor-Ceiling Design. Max diam of floor opening is 3 in. (76 mm).
2. Wood Joists* — For 1 hr fire-rated floor-ceiling assemblies, nom 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required and with ends firestopped. For 2 hr fire-rated floor-ceiling assemblies, nom 8 by 10 in. (51 by 102 mm) lumber joists spaced 16 in. (406 mm) OC with nom 1 by 8 in. (25 by 76 mm) lumber bridging and with ends firestopped.
C. Furring Channels — (Not Shown) — In 2 hr fire-rated assemblies, resilient galv steel furring installed perpendicular to wood joists between first and second layers of wallboard (Item 1D). Furring channels spaced max 24 in. (610 mm) OC. In 1 hr fire-rated assemblies, resilient galv steel furring installed perpendicular to wood joists between gypsum board and wood joists as specified in the individual Floor-Ceiling Design. Furring channels spaced max 24 in. (610 mm) OC.
D. Gypsum Board* — Nom 4 ft (1.220 mm) wide by 5/8 in. (16 mm) thick as specified in the individual Floor-Ceiling Design. First layer of gypsum board secured to wood joists or furring channels as specified in the individual Floor-Ceiling Design. Second layer of gypsum board (2 hr fire-rated assembly) screw-attached to furring channels as specified in the individual Floor-Ceiling Design. Max diam of ceiling opening is 3 in. (76 mm).
3. Through Penetrants — One nonmetallic pipe or conduit to be installed approximately mid-way between wood joists and centered within the system. Diam of openings hole-sawed through flooring system and through gypsum board ceiling to be nom 5/8 in. (16 mm) larger than the outside diam of through-penetrant. Pipe or conduit to be rigidly supported on both sides of the floor-ceiling assembly. The following types and sizes of nonmetallic pipes or conduits may be used:
A. Polyvinyl Chloride (PVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
B. Rigid Nonmetallic Conduit — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA No. 70).
C. Electrical Nonmetallic Tubing (ENT) — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 PVC ENT installed in accordance with Article 362 of the National Electrical Code.
D. Electrical Nonmetallic Tubing (EMAT) — Nom 2 in. (51 mm) diam (or smaller) EMAT format from PVC and installed in accordance with Article 331 of the National Electrical Code.
4. Firestop System — The firestop system shall consist of the following:
A. Fill, Void or Cavity Material* — Wrap Strip — Nom 1/8 or 3/16 in. (3.2 or 4.8 mm) thick intumescent material faced on both sides with a plastic film, supplied in 2 in. (51 mm) wide strips or nom 1/4 in. (6 mm) thick intumescent material faced on both sides with a plastic film, supplied in 1-1/2 in. (51 mm) wide strips. One layer of wrap strip is wrapped around the through-penetrant at its egress from both sides of the floor-ceiling assembly with ends butted and held in place with two layers of 2 in. (51 mm) wide by 3 mil (0.08 mm) thick aluminum foil tape. The bottom edge of the wrap strip shall extend 5/8 in. (16 mm) below the flooring system and 1/4 in. (6 mm) below the ceiling.
Specified Technologies Inc — Specified BLU Wrap Strip — Specified BLUI Wrap Strip or Specified RED Wrap Strip
B. Fill, Void or Cavity Material* — Sealant — Fill material forced into annulus to fill space to max extent possible, flush with top surface of floor and bottom surface of ceiling.
SPECIFIED TECHNOLOGIES INC — Specified Series SSS Sealant or Specified LCI Sealant

+Bearing the UL Listing Mark *Bearing the UL Classification Marking

3M™ Fire Barrier Moldable Putty Pads MPP+

Product Data Sheet

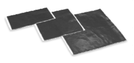
1. Product Description

3M™ Fire Barrier Moldable Putty Pads MPP+ are a one-part, ready-to-use, intumescent wall-opening protective. When properly applied to the back of electrical outlet boxes, 3M™ Fire Barrier Moldable Putty Pads MPP+ help control the spread of fire, smoke and noxious gases through fire-resistive walls and partitions. Installed in accordance with the UL wall-opening protective listing (UL Category CLIV), the product helps achieve up to 2-hour ratings in a variety of wall constructions.
3M™ Fire Barrier Moldable Putty Pads MPP+ can effectively provide protection for back-to-back electrical boxes.

3M™ Fire Barrier Moldable Putty Pads MPP+ are also used as a firestop material in through-penetration firestop systems. 3M™ Fire Barrier Moldable Putty Pads MPP+ help to maintain a firestop penetration seal for up to 4 hours. 3M™ Fire Barrier Moldable Putty Pads MPP+ exhibit excellent adhesion to a full range of construction substrates and penetrants. The pads are easily molded by hand (no tooling required). In addition to its fire-resistant properties, the 1/10th in. (2.54mm) thick pads have airborne sound reduction characteristics which helps minimize sound transmission through assemblies requiring an STC rating.

Color: ■ Dark Red

Product Features



- Firestop tested up to 4 hours in accordance with ASTM E 814 (UL 1479) & CAN/ULC-S115
- Wall opening protective tested up to 2 hours in accordance with UL 263
- Provides draft and cold smoke seal
- Pliable and conformable — mold& easily into required shape
- Helps reduce noise transfer*
- Excellent adhesion
- Re-entrable/repairable
- Halogen-free and solvent-free
- Excellent aging properties
- Low VOC
- Will not dry out or crumble
- Red color widely recognized as a fire protective product

4 in. x 8 in. (101.6mm x 203.2mm), 7 in. x 7 in. (177.8mm x 177.8mm) and 9.5 in. x 9.5 in. (241.2mm x 241.3mm) pad sizes available.

*Meets the intent of LEED® VOC regulations—helps reduce the quantity of indoor air contaminants that may be odorous, irritating and harmful to the comfort and well-being of the installers and occupants.
*Minimizes noise transfer—STC-Rating of 52 when tested in STC 53-rated wall assembly.

FIRE BARRIER: UL 4 hour Fire Resistance
SMOKE SEAL: L Rated Airborne Sound Transmission
WALL OPENING: UL 2 hour Fire Protection
SOUND BARRIER: STC 52 Sound Transmission
FM APPROVED — SUBJECT TO THE CONDITIONS OF APPROVAL, ALL 4 WALL & FLOOR PENETRATION FIRESTOP WHEN INSTALLED AS DESCRIBED IN THE CURRENT EDITION OF THE FMRC APPROVAL GUIDE
UL LISTED — FILL, VOID OR CAVITY MATERIALS, 9003
CLASSIFIED UL — WALL OPENING PROTECTIVE MATERIAL FIRE RESISTANCE CLASSIFICATION SEE UL FIRE RESISTANCE DIRECTORY 9003
CLASSIFIED UL — FILL, VOID OR CAVITY FOR USE IN THROUGH-PENETRATION FIRESTOP SYSTEMS, SEE UL FIRE RESISTANCE DIRECTORY 9003

2. Applications

4 in. x 8 in. (101.6mm x 203mm) 3M™ Fire Barrier Moldable Putty Pads MPP+ are typically used as a wall opening protective to meet building requirements, for protection of membrane penetrations made by listed steel or non-metallic electrical boxes. It is also used to seal gaps between cables in multiple penetrations (including fiber optic inner duct) and to firestop cable bundles, insulated pipe, electrical conduit and metal pipe. Larger sized pads, 7 in. x 7 in. and 9.5 in x 9.5 in. (177.8mm x 177.8mm and 241.2mm x 241.2mm) are used to protect non-metallic and non-metallic electrical outlet boxes up to 14 in. x 4.5 in. by 2-1/2 in. (355.6mm x 114.3mm x 63.5mm) deep. For larger applications, pads can be molded together by hand.

3. Specifications

3M™ Fire Barrier Moldable Putty Pads MPP+ shall be a one component, ready-to-use, intumescent elastomer capable of expanding a minimum of 3 times at 1000°F. The material shall be listed by independent test agencies such as UL, Intertek or FM. 3M™ Fire Barrier Moldable Putty Pads MPP+ shall be tested to and pass the criteria of ASTM E 814 (UL 1479) Standard Test Method for Fire Tests of Penetration Firestop Systems and CAN/ULC S115 Standard Method of Fire Tests of Firestop Systems. 3M™ Fire Barrier Moldable Putty Pads MPP+ meets the requirements of the IBC, NFPA 5000, NEC (NFPA 70), NFPA 101 and NCB (Canada) Building Codes.

Typically Specified MasterFormat (2004)
Section 07 84 00 – Firestopping

Related Sections
Section 07 84 16 – Annular Space Protection
Section 07 86 00 – Smoke Seals
Section 07 87 00 – Smoke Containment Barriers
Section 07 27 00 – Thermal and Moisture Protection Firestopping
Section 21 00 00 – Fire Suppression
Section 26 00 00 – Electrical

For technical support relating to 3M™ Fire Protection Products and Systems, call: 1-800-328-1687
For more information on 3M™ Fire Protection Products, visit: www.3M.com/firestop

3M

USE PUTTY AT ALL BOXES INSTALLED ON FIRE-RATED WALLS

4. Performance & Typical Physical Properties

Color:	Dark Red	**Dimensions:**	4 in. x 8 in. x 1/10 in. (101.6mm x 203.2mm x 2.5mm)
Nominal Density:	10 -12 lbs./gal. (1.2 - 1.45kg/L)	**Unit Volume:**	2.52 in.^{3} (41.4cm^3)
Nominal Thickness:	1/10 in. (2.54mm)	**Unit Weight:**	2.7 oz (76g)
Surface Burning (ASTM E 84)**:**	Flame Spread 0, Smoke Development 0		
Heat Expansion:	Begins at 350°F (177°C) Significant at 400°F (204°C) Free Expansion is Nominal 3 times	**Dimensions:** **Unit Volume:** **Unit Weight:**	7 in. x 7 in. x 1/10 in. (177.8mm x 177.8mm x 2.5mm) 4.63 in.^{3} (76.0cm^3) 4.1 oz (116g)
STC (ASTM E 90 and ASTM E 413)**:**	52 when tested on back-to-back electrical boxes	**Dimensions:** **Unit Volume:** **Unit Weight:**	9.5 in. x 9.5 in. x 1/10 in. (241.3mm x 241.3mm x 2.5mm) 6.1 in.^{3} (139.5cm^3) 7.6 oz (215g)
Tested in STC 53 rated wall assembly			
VOC Less H$_2$O and Exempt Solvents:	< 250g/L		

5. Packaging, Storage, Shelf Life

Packaging: Corrugated cardboard box with liner between individual pads.
Storage: 3M™ Fire Barrier Moldable Putty Pads MPP+ should be stored indoors in dry conditions.
Shelf Life: 3M™ Fire Barrier Moldable Putty Pads MPP+ shelf life is indefinite in original unopened containers. Product will not dry or crumble in opened containers. Normal stock and stock rotation practices are recommended.

6. Installation Techniques

Consult a 3M Authorized Fire Protection Products Distributor / Dealer or Sales Representative for Applicable UL, Intertek or other third-party drawings and system details.

Preparatory Work: The surface of the electrical box, or opening and any penetrating items should be cleaned (i.e. free of dust, grease, oil, loose materials, rust or other substances) to allow for the proper adhesion of the 3M™ Fire Barrier Moldable Putty+ Pad. Ensure that the surface of the substrates are not wet and are frost-free.

Installation Details: Electrical boxes must be firestopped under the following conditions: boxes larger than 16 sq. in. (103 sq. cm), if horizontal spacing between boxes is less than 24 in. (609.6mm), when multiple boxes are located in one stud cavity or if the aggregate of all boxes exceeds 100 sq. in per 100 sq. ft. (645 sq. cm. per 9.29 sq. m) — refer to listed system details and applicable local building code requirements. For electrical box installations, a minimum of 1/10 in. (2.5mm) thick putty application is required. 3M™ Fire Barrier Moldable Putty Pads MPP+ are to be installed to completely cover the exterior of the outlet box (except for the side against the stud). To firestop penetrations, install the applicable depth of backing material (if required), remove the desired amount of putty from the pad, form (if necessary) and install as detailed within the listed system. Make sure that putty is in complete contact with the substrate and penetrating item(s).

Note: Partial pads can be pieced together and the seams between partial pads should overlap a minimum of 1/8 in. with the seams worked with the fingertips to create adhesion at the seam.

Limitations: Over application (i.e., using excessive amount of material) of product to vertical surfaces may cause sagging, follow system details. Product is not impaired by freezing but should be warmed to 32°F (0°C) before applying.

7. Maintenance

No maintenance is expected when installed in accordance with the applicable UL, Intertek, FM or other third-party listed system. Once installed, if any section of the 3M™ Fire Barrier Moldable Putty Pad MPP+ is damaged, the following procedure will apply: remove damaged putty, clean the affected area and install the proper thickness of putty, ensuring it bonds to the substrate and adjacent putty (product from damaged area can be reused if it is free from contaminants). Putty can be molded together at new/existing putty overlap.

8. Availability

3M™ Fire Barrier Moldable Putty Pads MPP+ are available from 3M Authorized Fire Protection Products Distributors and Dealers. 3M™ Fire Barrier Moldable Putty Pads MPP+ are available in the following sizes: (10 pads/pack, 10 packs/case) 4 in. x 8 in. x 1/10 in. (101.6mm x 203.2mm x 2.5mm), (20 pads/case) 7 in. x 7 in. x 1/10 in. (177.8mm x 177.8mm x 2.5mm), (20 pads/case) 9.5 in. x 9.5 in. x 1/10 in. (241.3mm x 241.3mm x 2.5mm), red-colored firestop material. For additional technical and purchasing information regarding this and other 3M Fire Protection Products, please call: 1-800-328-1687 or visit www.3M.com/firestop.

9. Safe Handling Information

Consult product's Material Safety Data Sheet (MSDS) from country-of-use prior to handling and disposal.

3M
Industrial Adhesives and Tapes Division
3M Center, Building 225-3S-06
St. Paul, MN 55144-1000
800-328-1687
877-369-2923 (Fax)
www.3M.com/firestop

Important Notice to User:
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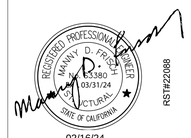
PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT
11590 W. Bernardo Court, Suite 100
San Diego, CA 92127
www.rstavares.com

PROFESSIONAL STAMP



02/16/24

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CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

REVISIONS

#	Description	BY

PROJECT TITLE

PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

EL DORADO 160# SNOW LOAD

SHEET TITLE

FIRE SEPARATION & PENETRATION DETAILS

PROJECT NUMBER

22073

DRAWN BY

rMc

CHECKED BY

RT/AR

DATE

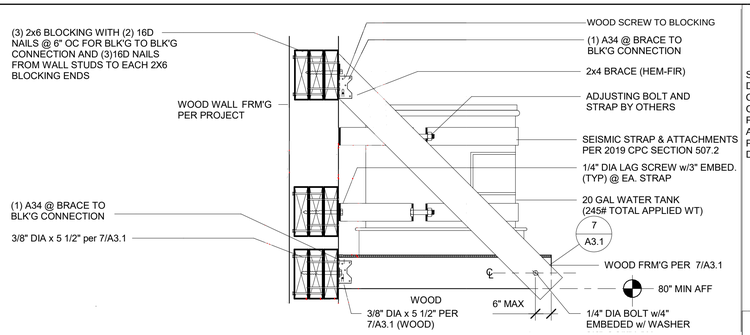
06/07/2021

SHEET NO.

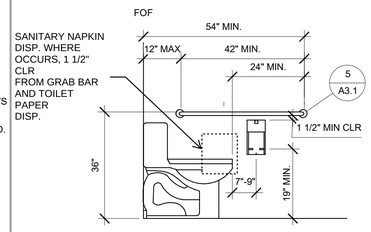
A3.0.1

SHEET OF SHEETS

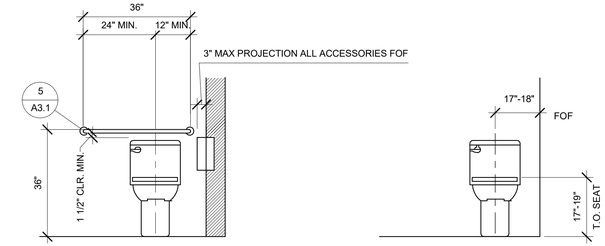
PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.



9 *1 1/2" = 1'-0"*
Water Heater Tank Bracing



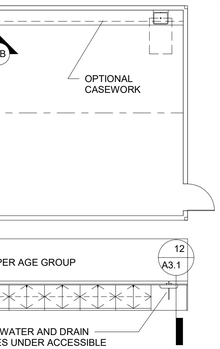
(SIDE VIEW)



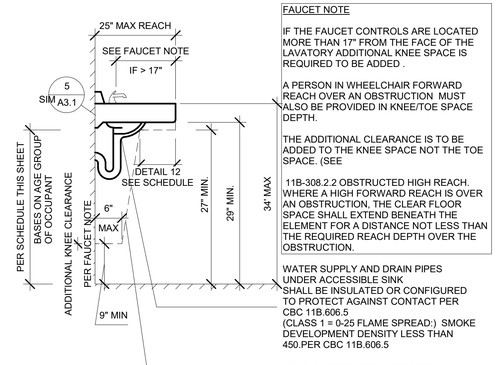
NOTES:
A. FLUSH VALVE TO BE PLACED ON ACCESSIBLE CLR SIDE
B. ALL DIMENSION TO BE PER PROJECT BASED ON AGE OF OCCUPANT
C. ALL DIMENSION PER ADA
- STANDARD DIMENSIONS SHALL NOT BE USED IN SIGLE OCC. BATHROOM

(FRONT VIEW) (FRONT VIEW)

4 *1/2" = 1'-0"*
Tank Toilet(12 AND OLDER)



10 *1/8" = 1'-0"*
Optional Casework



FAUCET NOTE

IF THE FAUCET CONTROLS ARE LOCATED MORE THAN 17" FROM THE FACE OF THE LAVATORY ADDITIONAL KNEE SPACE IS REQUIRED TO BE ADDED .

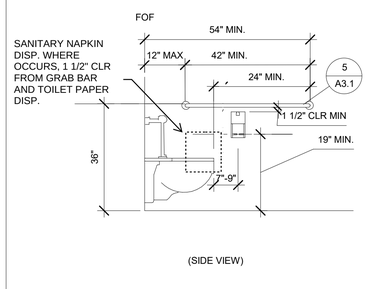
A PERSON IN WHEELCHAIR FORWARD REACH OVER AN OBSTRUCTION MUST ALSO BE PROVIDED IN KNEE/TOE SPACE DEPTH.

THE ADDITIONAL CLEARANCE IS TO BE ADDED TO THE KNEE SPACE NOT THE TOE SPACE. (SEE

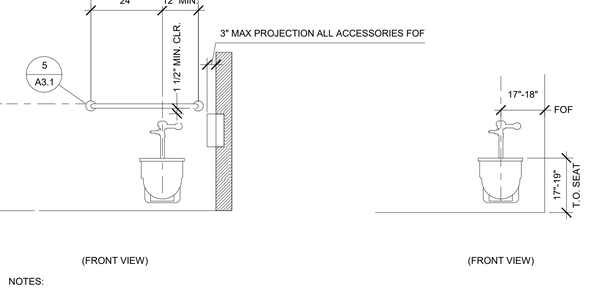
11B-308.2.2 OBSTRUCTED HIGH REACH. WHERE A HIGH FORWARD REACH IS OVER AN OBSTRUCTION. THE CLEAR FLOOR SPACE SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE OBSTRUCTION.

WATER SUPPLY AND DRAIN PIPES UNDER ACCESSIBLE SINK SHALL BE INSULATED OR CONFIGURED TO PROTECT AGAINST CONTACT PER CBC 11B.606.5
(CLASS 1 = 0-25 FLAME SPREAD:) SMOKE DEVELOPMENT DENSITY LESS THAN 450.PER CBC 11B.606.5

8 *3/4" = 1'-0"*
Accessible Lavatory



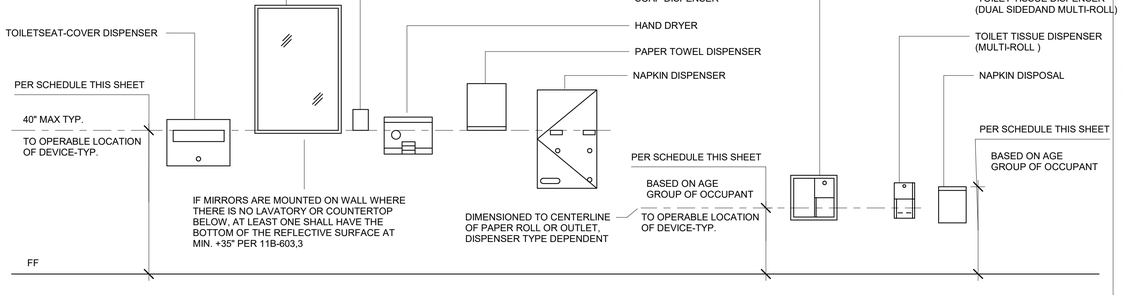
(SIDE VIEW)



(FRONT VIEW) (FRONT VIEW)

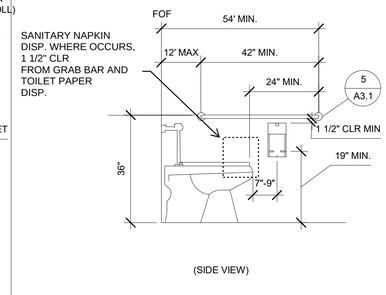
NOTES:
A. FLUSH VALVE TO BE PLACED ON ACCESSIBLE CLR SIDE
B. ALL DIMENSION TO BE PER PROJECT BASED ON AGE OF OCCUPANT
C. ALL DIMENSION PER ADA/CBC
- STANDARD DIMENSIONS SHALL NOT BE USED IN SINGLE OCC. BATHROOM

3 *1/2" = 1'-0"*
Wall Mounted Toilet (12 AND OLDER)

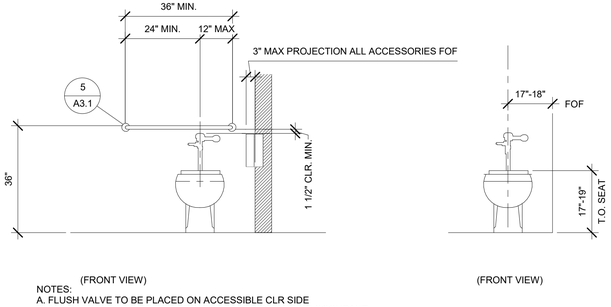


MAXIMUM 3" PROJECTION FOR ALL ACCESSORIES (UNO)

6 *1/2" = 1'-0"*
Mounting Heights



(SIDE VIEW)



(FRONT VIEW) (FRONT VIEW)

NOTES:
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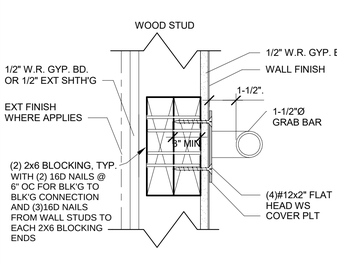
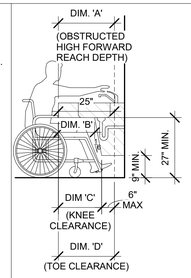
B. ALL DIMENSION TO BE PER PROJECT BASED ON AGE OF OCCUPANT
C. ALL DIMENSION PER ADA/CBC
- STANDARD DIMENSIONS SHALL NOT BE USED IN SINGLE OCC. BATHROOM

2 *1/2" = 1'-0"*
Floor Mounted Toilet (12 AND OLDER)



5 *3" = 1'-0"*
Grab Bar Mounting



DIM. 'A'	DIM. 'B'	DIM. 'C'	DIM. 'D'
17"	8"	11"	17"
18"	9"	12"	18"
19"	10"	13"	19"
20"	11"	14"	20"
21"	12"	15"	21"
22"	13"	16"	22"
23"	14"	17"	23"
24"	15"	18"	24"
25"	16"	19"	25"

12 *3/8" = 1'-0"*
MOUNTING SCHEDULE

RECOMMENDED ACCESSIBLE MOUNTING HEIGHT PER CBC 11B609.4 & TABLE 11B604.9

TYPE / AGE GROUP	☐ ADA & AGES 12 AND UP	2022 CBC REF
TOILET CENTERING FROM WALL	17" - 18"	S 11B-604.2 **
TOILET SEAT HEIGHT	17" - 19"	S 11B-604.4 **
TOILET FRONT CLEARANCE	48"	S 11B-604.2
GRAB BAR HEIGHT (TOP OF BAR)	33" - 36"	S 11B-604.3.1 **
TOILET PAPER IN FRONT OF TOILET	7" - 9"	S 11B-604.7.1
TOILET PAPER DISPENSER HEIGHT (CENTER)	19" MIN.	S 11B-604.7.1 **
NAPKIN DISPOSAL		S 11B-604.7.2
NAPKIN DISPOSAL HEIGHT (TO TOP)	SEE DETAIL #2,#3, #4	S 11B-604.7.2
MIRROR HEIGHT (TO REFLECTIVE SURFACE)	40" MAX.***	S 11B-603.3
TOILET SEAT COVER DISPENSER HEIGHT ①	40"	S 11B-603.5
LAVATORY/SINK (TOP)- RIM	34" MAX.	S 11B-606.2 & 3
LAVATORY/SINK @ APRON	29" MIN.	S 11B-606.2
LAVATORY/SINK KNEE CLEARANCE	27" MIN	F 11B-306.3 S 11B-606.2
SOAP DISPENSER ①	40" MAX.	S 11B-603.5
HAND DRYER (TOP OF CONTROL) ①	40" MAX.	S 11B-603.5
NAPKIN DISPENSER HEIGHT (TOP OF CONTROL/ DISPENSER) ①	40" MAX.	S 11B-603.5
PAPER TOWEL DISPENSER HEIGHT ①	40" MAX.	S 11B-603.5
TOE CLEARANCE @ TOILET PARTITION	9" MIN	S 11B-604.8.1.4
URINAL HEIGHT	17" MAX	S 11B-605.2
URINAL PROJECTION	13 1/2" MIN	S 11B-605.2
FLUSH CONTROL HEIGHT	44" MAX	S 11B-605.4
HIGH D.F. SPOUT HEIGHT	38" TO 43"	S 11B-602.7
LOW D.F. APPROACH SPOUT HEIGHT, AND SPOUT LOCATION FROM FRONT EDGE OF THE UNIT INCLUDING BUMPERS	FRONT APPROACH PER 11B-306, 36" MAX. AFF, & 5" MAX FROM FRONT EDGE OF THE UNIT	S 11B-602.2 -EXCEPTION S 11B-602.4 S 11B-602.5
D.F. OPERABLE PARTS	6" MAX FROM FRONT EDGE OF THE UNIT	S 11B-602.3
CANTILEVER D.F. PROJECTION	18" TO 19"	S 11B-602.9
SHELF HEIGHT (WITHIN WATER CLOSET) AFF	40" TO 48"	S 11B-604.8.3
KNEE CLEARANCE @ 9" AFF	11" MIN	S 11B-306.3
KNEE CLEARANCE @ 27" AFF	8" MIN	S 11B-306.3

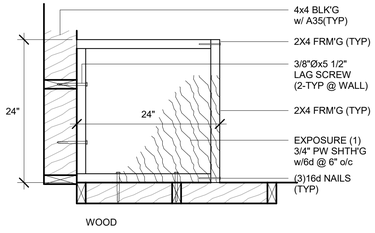
* shall comply with Section 11B-309.4 and shall be wall mounted and located on the sidewall between the rear wall of the toilet and the toilet paper dispenser, adjacent to the toilet paper dispenser. The disposal unit shall be located below the grab bar with the opening of the disposal unit 19 inches minimum (483 mm) above the finish floor.

** also referenced in CBC Table 11B-604.9

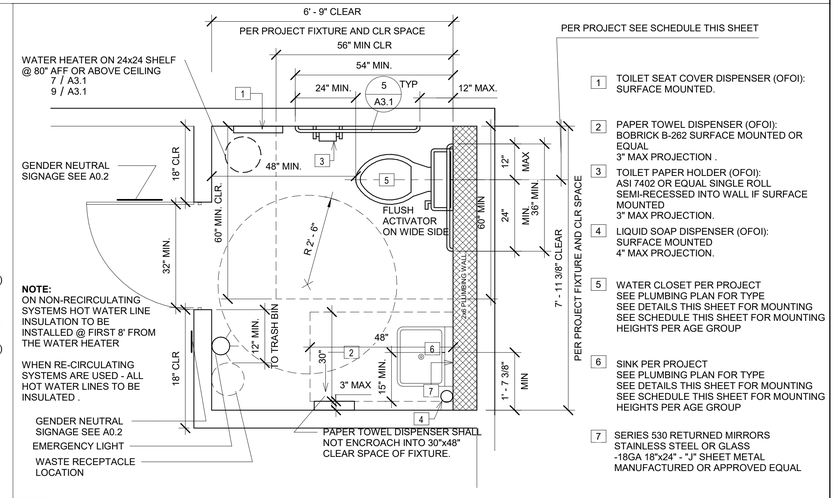
*** 40" Maximum above lavatory or countertop; 35" Maximum not above lavatory nor countertop

① OFOI - OWNER FUNISHED - OWNER INSTALLED

SEE 12/A3.1.1 MOUNTING HEIGHT NOTES



7 *1" = 1'-0"*
Water Heater Shelf Framing



1 TOILET SEAT COVER DISPENSER (OFOI): SURFACE MOUNTED.

2 PAPER TOWEL DISPENSER (OFOI): BOBRICK B-262 SURFACE MOUNTED OR EQUAL 3" MAX PROJECTION .

3 TOILET PAPER HOLDER (OFOI): ASI 7402 OR EQUAL SINGLE ROLL SEMI-RECESSED INTO WALL IF SURFACE MOUNTED 3" MAX PROJECTION.

4 LIQUID SOAP DISPENSER (OFOI): SURFACE MOUNTED 4" MAX PROJECTION.

5 WATER CLOSET PER PROJECT SEE PLUMBING PLAN FOR TYPE SEE DETAILS THIS SHEET FOR MOUNTING SEE SCHEDULE THIS SHEET FOR MOUNTING HEIGHTS PER AGE GROUP

6 SINK PER PROJECT SEE PLUMBING PLAN FOR TYPE SEE DETAILS THIS SHEET FOR MOUNTING SEE SCHEDULE THIS SHEET FOR MOUNTING HEIGHTS PER AGE GROUP

7 SERIES 530 RETURNED MIRRORS STAINLESS STEEL OR GLASS -18GA 18"x24" - "J" SHEET METAL MANUFACTURED OR APPROVED EQUAL

1 *1/2" = 1'-0"*
Accessible Single Gender Neutral Occ Bathroom Plan (AGE GROUP 12 AND OLDER)

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
11590 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER MANNY D. FRANCO C-33380 03/31/24 STRUCTURAL STATE OF CALIFORNIA
RST#22088
02/16/24

THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEVISED SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. ©

CLIENT

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1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
SINGLE OCC. BATHROOM

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE

SHEET NO.
A3.1
SHEET OF

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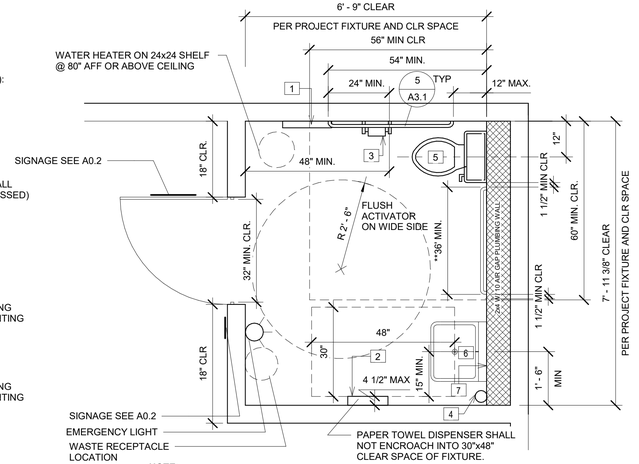
**FOR AGE GROUP 3-12 AGE
GRAB BAR TO BE ADJACENT
TO TOILET SO NOT
TO INTERFER W/ FLUSH VALVE

1. TOILET SEAT COVER DISPENSER (OFOI): SURFACE MOUNTED.
2. PAPER TOWEL DISPENSER (OFOI): SURFACE MOUNTED 3" MAX PROJECTION .
3. TOILET PAPER HOLDER (OFOI): SINGLE ROLL SEMI-RECESSED INTO WALL 4 1/2" MAX PROJECTION. (ALSO IF RECESSED)
4. LIQUID SOAP DISPENSER (OFOI): SURFACE MOUNTED 4" MAX PROJECTION.
5. WATER CLOSET PER PROJECT SEE PLUMBING PLAN FOR TYPE SEE DETAILS THIS SHEET FOR MOUNTING SEE SCHEDULE THIS SHEET FOR MOUNTING HEIGHTS PER AGE GROUP
6. SINK PER PROJECT SEE PLUMBING PLAN FOR TYPE SEE DETAILS THIS SHEET FOR MOUNTING SEE SCHEDULE THIS SHEET FOR MOUNTING HEIGHTS PER AGE GROUP
7. SERIES 530 RETURNED MIRRORS STAINLESS STEEL OR GLASS -18GA 18"x24" - "J" SHEET METAL MANUFACTURED OR APPROVED EQUAL



NOTE:
ON NON-RECIRCULATING SYSTEMS HOT WATER LINE INSULATION TO BE INSTALLED @ FIRST 8' FROM THE WATER HEATER

WHEN RE-CIRCULATING SYSTEMS ARE USED - ALL HOT WATER LINES TO BE INSULATED .

9 *1/2" = 1'-0"*
Accessible Single Occ Bathroom Plan(AGE GROUP 3 AND 4 YRS)

DIMENSIONS FOR WATER CLOSETS SERVING COMBINED AGE GROUPS

	AGES 3 THROUGH 8	AGES 5 THROUGH 12
CENTERLINE OF WC TO ADJACENT WALL	12"	15"
TOILET SEAT HEIGHT OF WC	12"	15"
GRAB BAR HEIGHT TO TOP GRIPPING SURFACE	20"	25"
TP DISPENSER HEIGHT	14"	17"

10 *1/4" = 1'-0"*
DIMENSIONS FOR WATER CLOSESTS SERVING COMBINED AGE GROUP

KNEE/TOE CLEARANCE
In addition to the knee/toe space depths listed on A3.1 the following shall apply:
If the faucet controls are located more than 17" from the face of the lavatory additional knee space is required tp be added .
See figures.

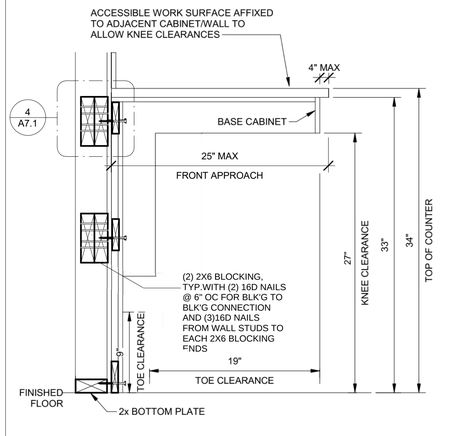
A person in wheelchair forward reach over an obstruction must also be provided in knee/toe space depth.

The additional clearance is to be added to the knee space not the toe space.

11B-308.2.2 Obstructed high reach. Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction.

GRAB BAR CLEARANCE
Maintain 1 1/2" minimum clear areas all-around (top, bottom, & ends) all grab bars. Ensure all toilet tanks, lavatory, & protruding mounts maintain a 1 1/2" minimum clearance from all grab bars

12 ***MOUNTING HEIGHT NOTES***



11 *1 1/2" = 1'-0"*
ACCESSIBLE WORK SURFACE

RECOMMENDED ACCESSIBLE MOUNTING HEIGHT PER CBC 11B609.4 & TABLE 11B604.9

TYPE / AGE GROUP	☐ AGES 9 THROUGH 12	☐ AGES 5 THROUGH 8	☐ AGES 3 AND 4	2022 CBC REF
TOILET CENTERING FROM WALL	15" - 18"	12" - 15"	12"	S 11B-604.2 **
TOILET SEAT HEIGHT	15" - 17"	12" - 15"	11" - 12"	S 11B-604.4 **
TOILET FRONT CLEARANCE	48"	48"	48"	S 11B-604.2
GRAB BAR HEIGHT (TOP OF BAR)	25" - 27"	20" - 25"	18" - 20"	S 11B-604.3.1 **
TOILET PAPER IN FRONT OF TOILET	7" - 9"	7" - 9"	7" - 9"	S 11B-604.7.1
TOILET PAPER DISPENSER HEIGHT (CENTER)	17" - 19"	14" - 17"	14" - 17"	S 11B-604.7.1 **
NAPKIN DISPOSAL	See Elevation *	N/A	N/A	S 11B-604.7.2
NAPKIN DISPOSAL HEIGHT (TO TOP)	25"-30" *	N/A	N/A	S 11B-604.7.2
MIRROR HEIGHT (TO REFLECTIVE SURFACE)	40" MAX ***	36" ***	32" ***	S 11B-603.3
TOILET SEAT COVER DISPENSER HEIGHT ①	40"	36"	32"	S 11B-603.5
LAVATORY/SINK (TOP)- RIM	31" MAX.	31" MAX.	31" MAX.	S 11B-606.2 & 3
LAVATORY/SINK @ APRON	24" MIN.	24" MIN.	19" MIN.	S 11B-606.2
LAVATORY/SINK KNEE CLEARANCE	24" MIN.	AGES 6-8 24" MIN AGE 5, PARALLEL APPROACH PERMITTED	PARALLEL APPROACH PERMITTED	F 11B-306.3 S 11B-606.2
SOAP DISPENSER ①	40" MAX.	36" MAX.	32" MAX.	S 11B-603.5
HAND DRYER (TOP OF CONTROL) ①	40" MAX.	36" MAX.	32" MAX.	S 11B-603.5
NAPKIN DISPENSER HEIGHT (TOP OF CONTROL/ DISPENSER) ①	40" MAX.	N/A	N/A	S 11B-603.5
PAPER TOWEL DISPENSER HEIGHT ①	40" MAX.	36" MAX.	32" MAX.	S 11B-603.5
TOE CLEARANCE @ TOILET PARTITION	12" MIN	12" MIN	12" MIN	S 11B-604.8.1.4
URINAL HEIGHT	17" MAX	17" MAX	17" MAX	S 11B-605.2
URINAL PROJECTION	13 1/2" MIN	13 1/2" MIN	13 1/2" MIN	S 11B-605.2
FLUSH CONTROL HEIGHT	44" MAX	44" MAX	44" MAX	S 11B-605.4
HIGH D.F. SPOUT HEIGHT	38" TO 43"	38" TO 43"	38" TO 43"	S 11B-602.7
LOW D.F. APPROACH SPOUT HEIGHT, AND SPOUT LOCATION FROM FRONT EDGE OF THE UNIT INCLUDING BUMPERS	PARALLEL APPROACH IS PERMITTED IF SPOUT IS 30" MAX. AFF & 3 1/2" MAX. FROM FRONT EDGE OF THE UNIT	PARALLEL APPROACH IS PERMITTED IF SPOUT IS 30" MAX. AFF & 3 1/2" MAX. FROM FRONT EDGE OF THE UNIT	PARALLEL APPROACH IS PERMITTED IF SPOUT IS 30" MAX. AFF & 3 1/2" MAX. FROM FRONT EDGE OF THE UNIT	S 11B-602.2 -EXCEPTION S 11B-602.4 S 11B-602.5
D.F. OPERABLE PARTS	6" MAX FROM FRONT EDGE OF THE UNIT	6" MAX FROM FRONT EDGE OF THE UNIT	6" MAX FROM FRONT EDGE OF THE UNIT	S 11B-602.3
CANTILEVER D.F. PROJECTION	18" TO 19"	18" TO 19"	18" TO 19"	S 11B-602.9
SHELF HEIGHT (WITHIN WATER CLOSET) AFF	40" TO 48"	40" TO 48"	40" TO 48"	S 11B-604.8.3
KNEE CLEARANCE @ 9" AFF	11" MIN.	11" MIN.	11" MIN.	S 11B-306.3
KNEE CLEARANCE @ 27" AFF	8" MIN	8" MIN	8" MIN	S 11B-306.3

* shall comply with Section 11B-309.4 and shall be wall mounted and located on the sidewall between the rear wall of the toilet and the toilet paper dispenser, adjacent to the toilet paper dispenser. The disposal unit shall be located below the grab bar with the opening of the disposal unit 19 inches minimum (483 mm) above the finish floor.

** also referenced in CBC Table 11B-604.9

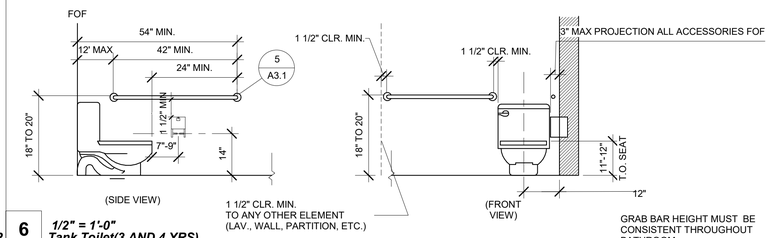
*** 40" Maximum above lavatory or countertop; 35" Maximum not above lavatory nor countertop

① OFOI - OWNER FUNISHED - OWNER INSTALLED

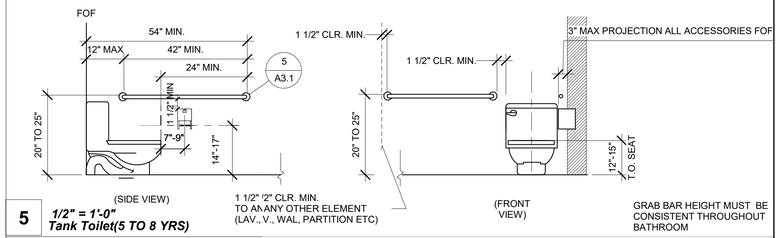
11B-902.4.1 Clear Floor or Ground Space **FOR CHILDREN'S USE**
A clear floor space complying with Section 11B-305 positioned for forward approach shall be provided. Knee and toe clearance complying with Section 11B-306 shall be provided, except that knee clearance 24 inches (610 mm) minimum above the finish floor or ground shall be permitted.

11B-902.4.2 Height **FOR CHILDREN'S USE**
The tops of tables and counters shall be 26 inches (660 mm) minimum and 30 inches (762 mm) maximum above the finish floor or ground.

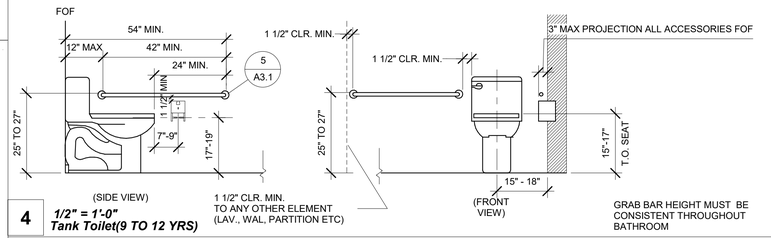
SEE 12/A3.1.1 MOUNTING HEIGHT NOTES



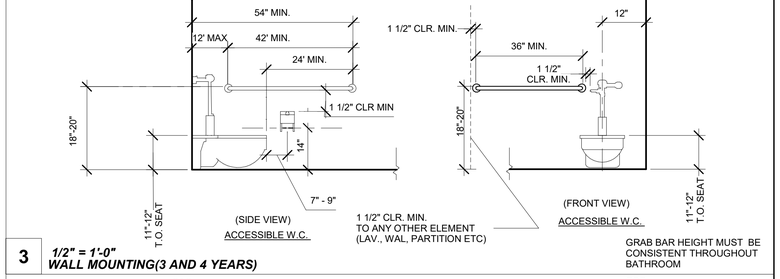
6 *1/2" = 1'-0"*
Tank Toilet(3 AND 4 YRS)



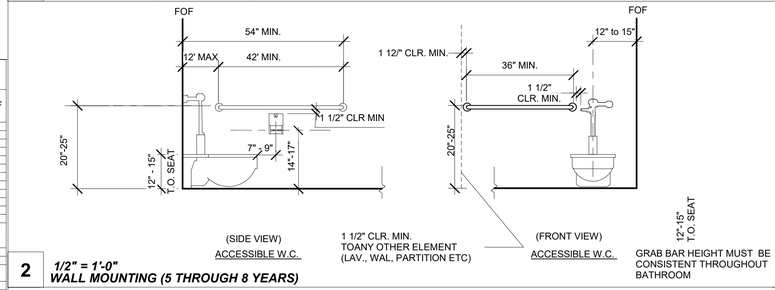
5 *1/2" = 1'-0"*
Tank Toilet(5 TO 8 YRS)



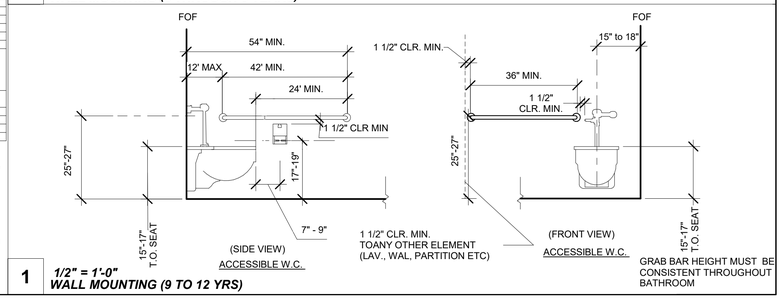
4 *1/2" = 1'-0"*
Tank Toilet(9 TO 12 YRS)



3 *1/2" = 1'-0"*
WALL MOUNTING(3 AND 4 YEARS)

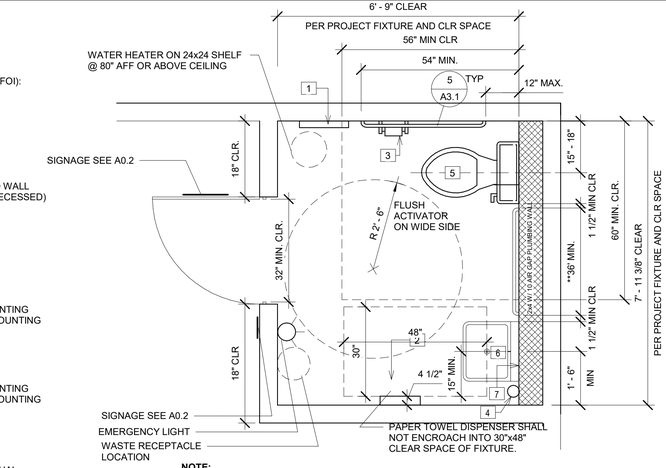


2 *1/2" = 1'-0"*
WALL MOUNTING (5 THROUGH 8 YEARS)



1 *1/2" = 1'-0"*
WALL MOUNTING (9 TO 12 YRS)

8 *1/2" = 1'-0"*
Accessible Single Occ Bathroom Plan(AGE GROUP 5-8)



NOTE:
ON NON-RECIRCULATING SYSTEMS HOT WATER LINE INSULATION TO BE INSTALLED @ FIRST 8' FROM THE WATER HEATER

WHEN RE-CIRCULATING SYSTEMS ARE USED - ALL HOT WATER LINES TO BE INSULATED .

7 *1/2" = 1'-0"*
Accessible Single Occ Bathroom Plan(AGE GROUP 9-12)

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PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ● CONSULTING ● PROJECT
11777 Bernardo Plaza Court, Suite 105
San Diego, CA 92128

PROFESSIONAL STAMP

RECORDED PROFESSIONAL ENGINEER — MANNY D. FRANCO — No. C-33380 — 03/31/24 — CIVIL — STRUCTURAL — STATE OF CALIFORNIA
RST#22088
02/16/24

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CLIENT

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Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
BATHROOM MOUNTING HEIGHTS

PROJECT NUMBER
22088

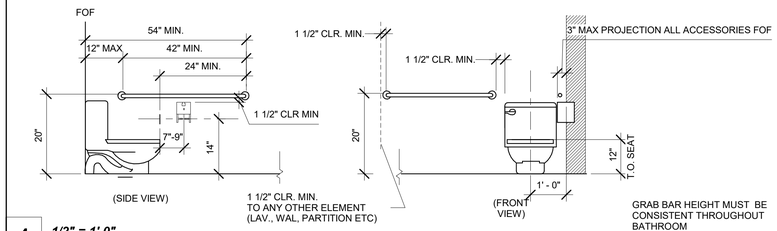
DRAWN BY
CG

CHECKED BY
RH/RT

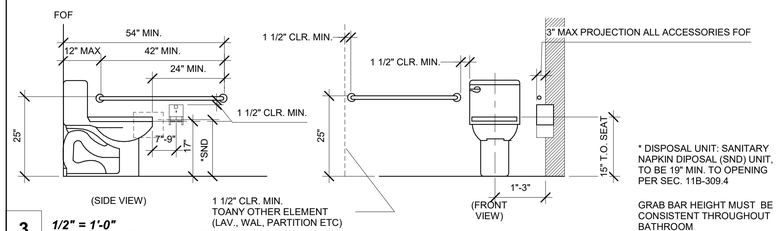
DATE

SHEET NO.
A3.1.1

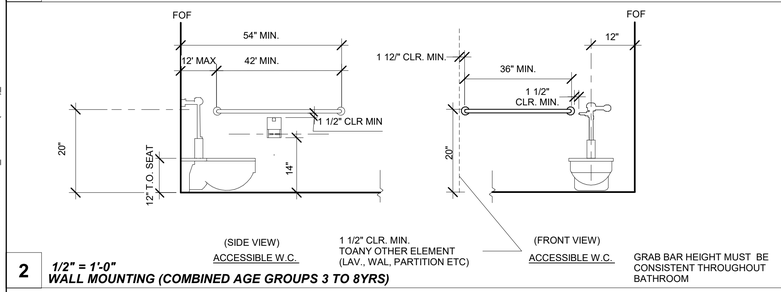
SHEET OF



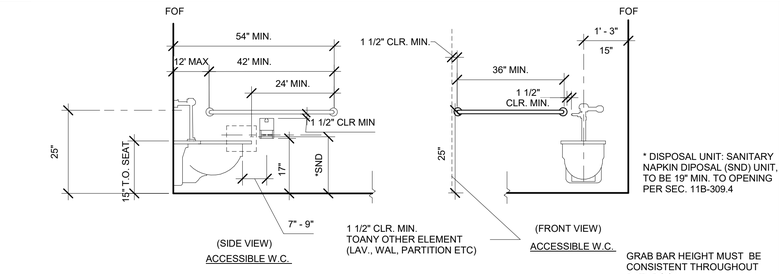
4 ***1/2" = 1'-0"***
Tank Toilet(COMBINED AGE GROUP 3 TO 8YRS)



3 ***1/2" = 1'-0"***
Tank Toilet(COMBINED AGE GROUP 5 TO 12YRS)



2 ***1/2" = 1'-0"***
WALL MOUNTING (COMBINED AGE GROUPS 3 TO 8YRS)



1 ***1/2" = 1'-0"***
WALL MOUNTING (COMBINED AGE GROUPS 5 TO 12YRS)

1 TOILET SEAT COVER DISPENSER:
SURFACE MOUNTED.

2 PAPER TOWEL DISPENSER:
SURFACE MOUNTED
3" MAX PROJECTION .

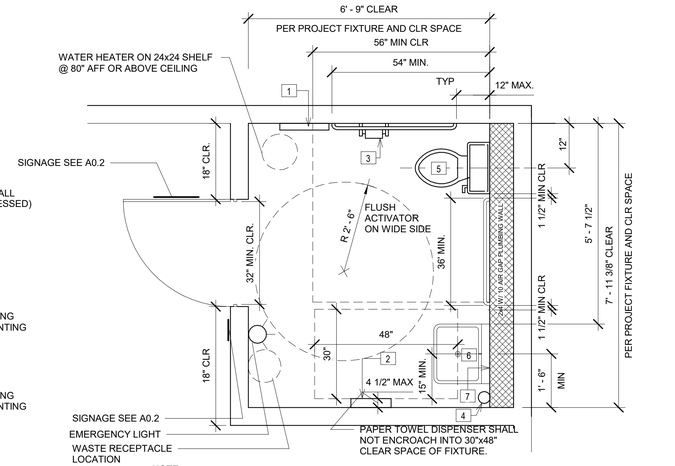
3 TOILET PAPER HOLDER:
SINGLE ROLL SEMI-RECESSED INTO WALL
4 1/2" MAX PROJECTION. (ALSO IF RECESSED)

4 LIQUID SOAP DISPENSER:
SURFACE MOUNTED
4" MAX PROJECTION.

5 WATER CLOSET PER PROJECT
SEE PLUMBING PLAN FOR TYPE
SEE DETAILS THIS SHEET FOR MOUNTING
SEE SCHEDULE THIS SHEET FOR MOUNTING
HEIGHTS PER AGE GROUP

6 SINK PER PROJECT
SEE PLUMBING PLAN FOR TYPE
SEE DETAILS THIS SHEET FOR MOUNTING
SEE SCHEDULE THIS SHEET FOR MOUNTING
HEIGHTS PER AGE GROUP

7 SERIES 530 RETURNED MIRRORS
STAINLESS STEEL OR GLASS
-18GA 18"x24" - "J" SHEET METAL
MANUFACTURED OR APPROVED EQUAL



NOTE:
ON NON-RECIRCULATING SYSTEMS HOT WATER LINE INSULATION TO BE INSTALLED @ FIRST 8' FROM THE WATER HEATER

WHEN RE-CIRCULATING SYSTEMS ARE USED - ALL HOT WATER LINES TO BE INSULATED .

6 ***1/2" = 1'-0"***
Accessible Single Occ Bathroom Plan(AGE GROUP 3-8)

1 TOILET SEAT COVER DISPENSER:
SURFACE MOUNTED.

2 PAPER TOWEL DISPENSER:
SURFACE MOUNTED
3" MAX PROJECTION .

3 TOILET PAPER HOLDER:
SINGLE ROLL SEMI-RECESSED INTO WALL
4 1/2" MAX PROJECTION. (ALSO IF RECESSED)

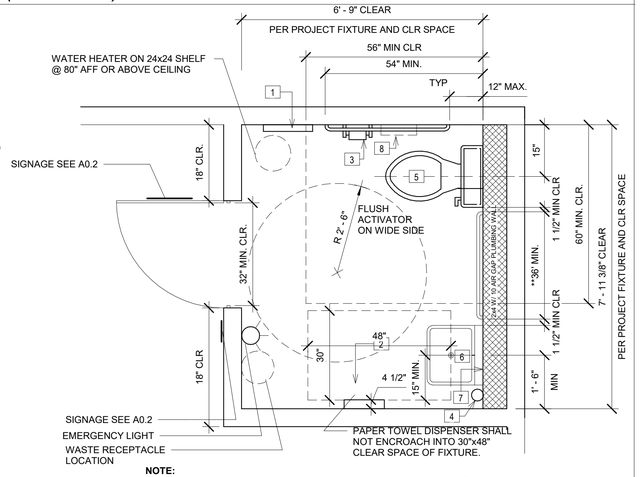
4 LIQUID SOAP DISPENSER:
SURFACE MOUNTED
4" MAX PROJECTION.

5 WATER CLOSET PER PROJECT
SEE PLUMBING PLAN FOR TYPE
SEE DETAILS THIS SHEET FOR MOUNTING
SEE SCHEDULE THIS SHEET FOR MOUNTING
HEIGHTS PER AGE GROUP

6 SINK PER PROJECT
SEE PLUMBING PLAN FOR TYPE
SEE DETAILS THIS SHEET FOR MOUNTING
SEE SCHEDULE THIS SHEET FOR MOUNTING
HEIGHTS PER AGE GROUP

7 SERIES 530 RETURNED MIRRORS
STAINLESS STEEL OR GLASS
-18GA 18"x24" - "J" SHEET METAL
MANUFACTURED OR APPROVED EQUAL

8 SND - SANITARY NAPKIN DISPOSAL
PER SEC. 11B-309.4



NOTE:
ON NON-RECIRCULATING SYSTEMS HOT WATER LINE INSULATION TO BE INSTALLED @ FIRST 8' FROM THE WATER HEATER

WHEN RE-CIRCULATING SYSTEMS ARE USED - ALL HOT WATER LINES TO BE INSULATED .

5 ***1/2" = 1'-0"***
Accessible Single Occ Bathroom Plan(AGE GROUP 5-12)

* shall comply with Section 11B-309.4 and shall be wall mounted and located on the sidewall between the rear wall of the toilet and the toilet paper dispenser, adjacent to the toilet paper dispenser. The disposal unit shall be located below the grab bar with the opening of the disposal unit 19 inches minimum (483 mm) above the finish floor.

** also referenced in CBC Table 11B-604.9

*** 40" Maximum above lavatory or countertop; 35" Maximum not above lavatory nor countertop

① OFOI - OWNER FUNISHED - OWNER INSTALLED

11B-902.4.1 Clear Floor or Ground Space **FOR CHILDREN'S USE**
A clear floor space complying with Section 11B-305 positioned for forward approach shall be provided. Knee and toe clearance complying with Section 11B-306 shall be provided, except that knee clearance 24 inches (610 mm) minimum above the finish floor or ground shall be permitted.

11B-902.4.2 Height **FOR CHILDREN'S USE**
The tops of tables and counters shall be 26 inches (660 mm) minimum and 30 inches (762 mm) maximum above the finish floor or ground.

SEE 12/A3.1.1 MOUNTING HEIGHT NOTES

RECOMMENDED ACCESSIBLE MOUNTING HEIGHT
COMBINED AGE GROUP

TYPE	☐	☐
AGE GROUP	AGES 3 THROUGH 8	AGES 5 THROUGH 12
TOILET CENTERING FROM WALL	12"	15"
TOILET SEAT HEIGHT	12"	15"
TOILET FRONT CLEARANCE	48"	48"
GRAB BAR HEIGHT (TOP OF BAR)	20"	25"
TOILET PAPER IN FRONT OF TOILET	7" - 9"	7" - 9"
TOILET PAPER DISPENSER HEIGHT (CENTER)	14"	17"
NAPKIN DISPOSAL (SEE INTERIOR ELEVATION)	N/A	PER CBC 11B-604.7.2
NAPKIN DISPOSAL HEIGHT (TO TOP)	N/A	1 - 1/2" MIN. CLEAR OF GRAB BAR
MIRROR HEIGHT (TO REFLECTIVE SURFACE)	40" MAX.	40" MAX.
TOILET SEAT COVER DISPENSER HEIGHT ①	40"	40"
LAVATORY/SINK (TOP) - RIM	31" MAX.	31" MAX.
LAVATORY/SINK @ APRON	24" MIN.	24" MIN.
LAVATORY/SINK KNEE CLEARANCE	24" MIN.	24" MIN.
SOAP DISPENSER ①	40" MAX.	40" MAX.
HAND DRYER (TOP OF CONTROL)	40" MAX.	40" MAX.
NAPKIN DISPENSER HEIGHT (TOP OF CONTROL/ DISPENSER) ①	N/A	40" MAX.
PAPER TOWEL DISPENSER HEIGHT ①	40" MAX.	40" MAX.
TOE CLEARANCE @ TOILET PARTITION	12" MIN	12" MIN
URINAL HEIGHT	17" MAX	17" MAX
URINAL PROJECTION	13 1/2" MIN.	13 1/2" MIN
FLUSH CONTROL HEIGHT	44" MAX	44" MAX
HIGH D.F. SPOUT HEIGHT	36" TO 43"	36" TO 43"
LOW D.F. APPROACH SPOUT HEIGHT, AND SPOUT LOCATION FROM FRONT EDGE OF THE UNIT INCLUDING BUMPERS	PARALLEL APPROACH IS PERMITTED IF SPOUT IS 30" MAX. AFF & 3 1/2" MAX. FROM FRONT EDGE OF THE UNIT	PARALLEL APPROACH IS PERMITTED IF SPOUT IS 30" MAX. AFF & 3 1/2" MAX. FROM FRONT EDGE OF THE UNIT
D.F. OPERABLE PARTS	6" MAX FROM FRONT EDGE OF THE UNIT	6" MAX FROM FRONT EDGE OF THE UNIT
CANTILEVER D.F. PROJECTION	18" TO 19"	18" TO 19"
SHELF HEIGHT (WITHIN WATER CLOSET) AFF	40" TO 48"	40" TO 48"
KNEE CLEARANCE @ 9" AFF	11" MIN.	11" MIN.
KNEE CLEARANCE @ 27" AFF	8" MIN.	8" MIN.

7 ***1/4" = 1'-0"***
COMBINED AGE GROUP MOUNTING

8/1/2023 11:38:15 AM C:\Users\User\Documents\22088- Aries, 24x40 PC - MainFile - Low Seismic_detached (2022)_CESAR24D63.rvt

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ♦ CONSULTING ♦ PROJECT
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www.rstavares.com

PROFESSIONAL STAMP

02/16/24

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CLIENT

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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
SINGLE OCC. BATHROOM COMBINED AGE GROUP

PROJECT NUMBER
22088

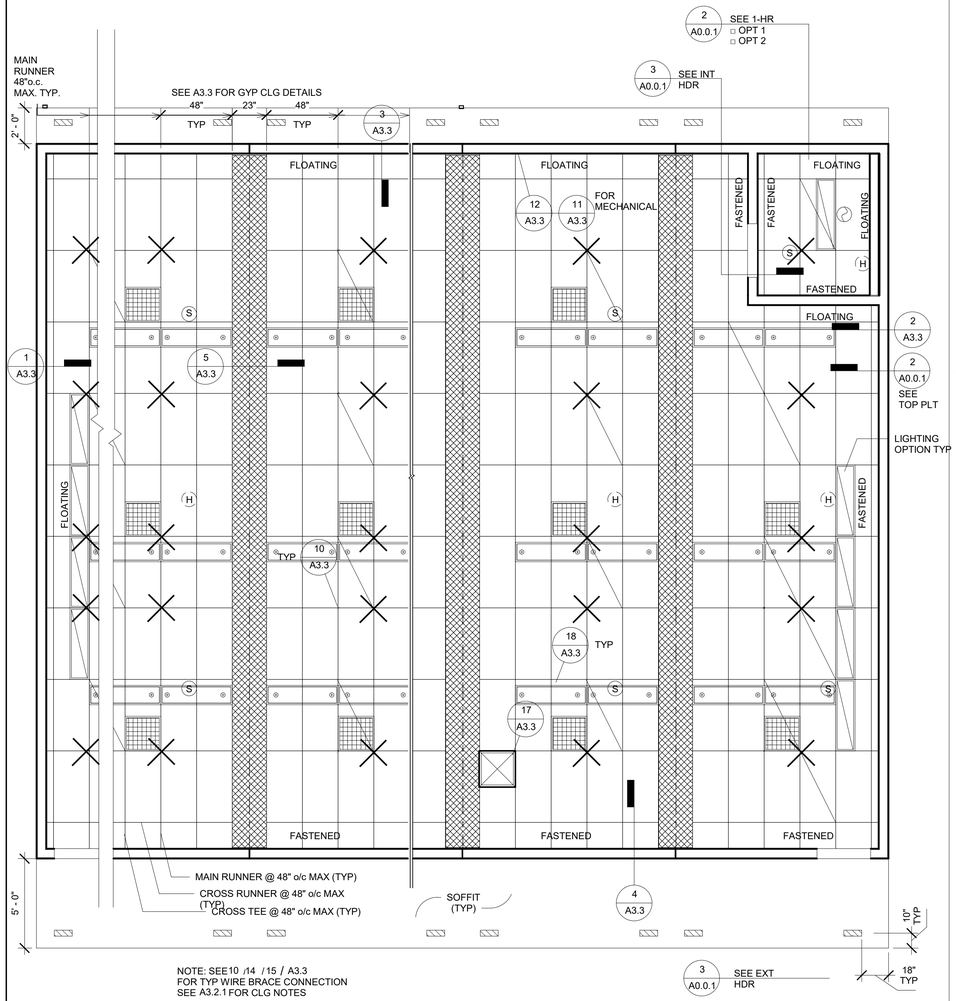
DRAWN BY
CG

CHECKED BY
RH/RT

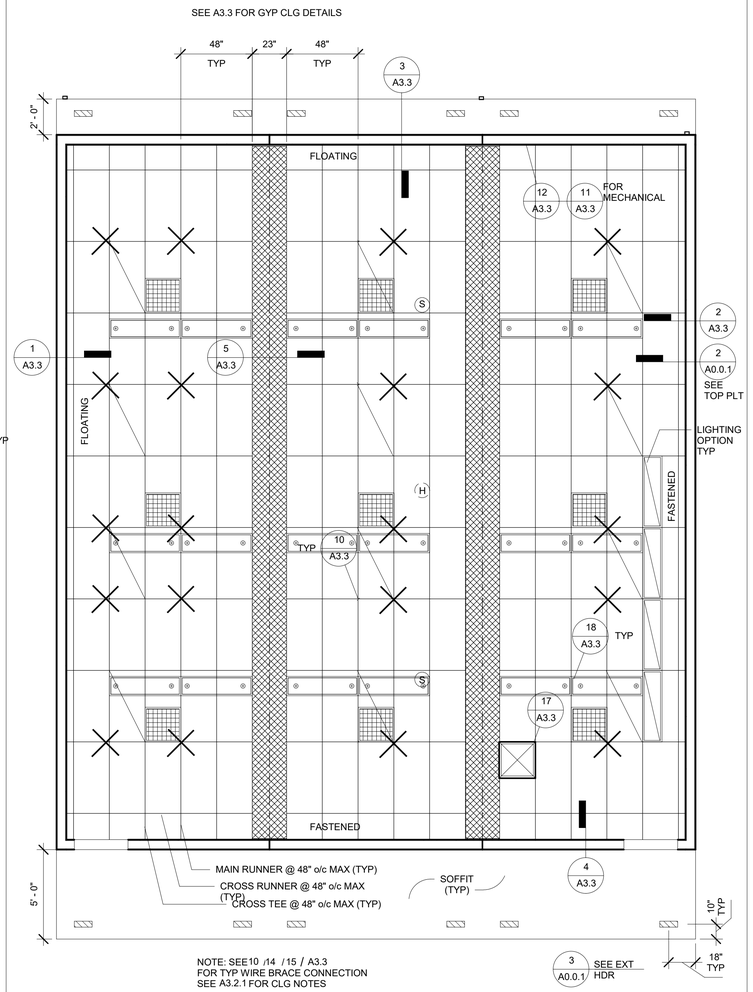
DATE
06/15/2021

SHEET NO.
A3.1.2

SHEET OF



3 ***1/4" = 1'-0"***
48x40 thru 120x40 RCP(A)



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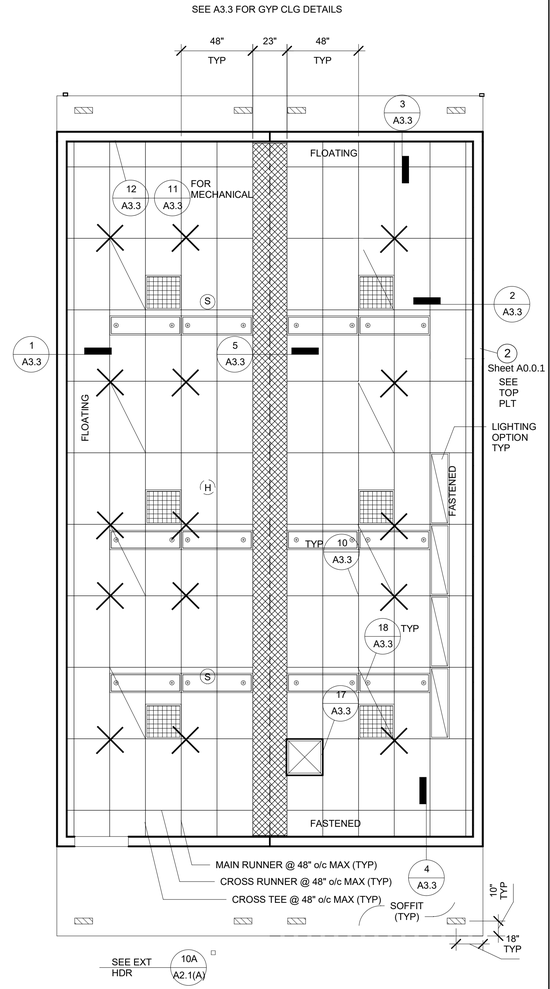
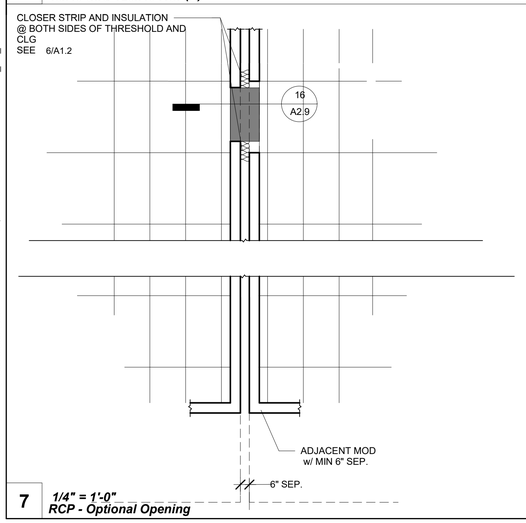
36x40 RCP(A)



1 ***1/4" = 1'-0"***
24x40 RCP(A)

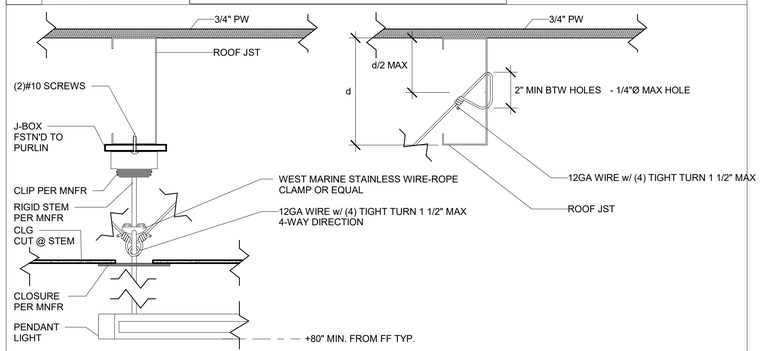


7 ***1/4" = 1'-0"***
RCP - Optional Opening

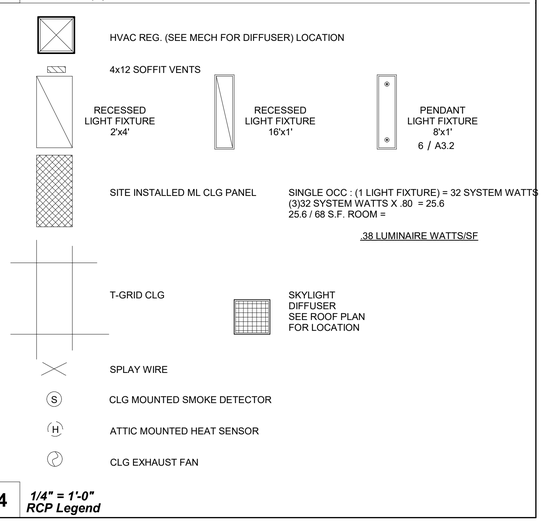
MAIN RUNNER 7301
4' CROSS T #: XL7341
2' CROSS T #: XL7328

STANDARD 7/8" WALL ANGLE CLIP w/ BERC-2 CLIP (ICC #ESR-1308)
2" WALL ANGLE: 7810 (OPTIONAL)

5 ***1/4" = 1'-0"***
T-Bar Sched



6 ***3" = 1'-0"***
Section - Pendant Mounting Detail



4 ***1/4" = 1'-0"***
RCP Legend

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6/15/2021 11:50:56 PM

PROJECT SPECIFIC STATE AGENCY APPROVAL

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STATE OF CALIFORNIA
RST#22088
02/16/24

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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

RCP

PROJECT NUMBER

22088

DRAWN BY

rMc/SC

CHECKED BY

RH/RT

DATE

SHEET NO.

A3.2

SHEET OF

1. CEILING SYSTEM GENERAL NOTES

1.01 Ceiling system components shall comply with ASTM C635 and Section 5.1 of ASTM E580.

1.02 The ceiling grid system must be rated heavy duty as defined by ASTM C635.

1.03 Ceiling systems. The following ceiling system(s) is/are part of the scope of this project:
Manufacturer: ARMSTONG (OR EQUAL)
Product Name: PRELUDE XL AND PRELUDE XL HIGH RECYLED CONTENT (HRC)
Evaluation Report Type and Number: ICC ESR#1308
Main Runner Part, Model, or Catalog Number: 7301
Cross Runner Part, Model, Catalog Number: 4" CROSS T # XL7341 / 2" CROSS T # XL7328

1.04 Seismic Wall Clip: STANDARD 7/8" WALL ANGLE CLIP w/ BERC2 CLIP
Manufacturer's Model: 7810

1.05 Ceiling panels shall not support any luminaires, air terminals or devices.

1.06 For ceiling installations utilizing acoustical tile panels of mineral or glass fiber, it is not mandatory to provide ¾" clearance between the acoustical tile panels and the wall on the sides of the ceiling which are free to slip. For all other ceiling panel types, provide ¾" clearance between the ceiling panel and the wall on the sides of the ceiling free to slip. Clearance between ceiling grid runners/members and walls shall comply with the details on these drawings regardless of ceiling tile material.

2. MATERIALS

2.01 Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641. Wire shall be #12 gauge (0.106" diameter) with soft temper and minimum ultimate tensile strength = 70 ksi.

2.02 Galvanized sheet steel (including that used for metal stud and track compression struts/post) shall conform to ASTM A653, or other equivalent sheet steel listed in Section A3.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members, (AISI S100). Material 43 mil (18 gauge) and lighter shall have minimum yield strength of 33 ksi. Material 54 mil (16 gauge) and heavier shall have a minimum yield strength of 50 ksi.

2.03 Electrical metallic tube (EMT) shall be ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength (F_Y) of 30 ksi and minimum ultimate strength (F_U) of 48 ksi.

3. ATTACHMENT OF HANGER AND BRACING WIRES

3.01 Separate all ceiling hanger and bracing wires at least 6 inches from all unbraced ducts, pipes, conduit, etc.

3.02 Hanger and bracing wires shall not attach to or bend around obstructions including but not limited to piping, ductwork, conduit and equipment.

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NOTE:
BERG2 2" BEAM-END RETAINING CLIP -Allows you to create a code-compliant Seismic D, E, F ceiling installation while eliminating the need to use 2" wall molding or spreader bars.

TABLE 1: LATERAL FORCE BRACE ASSEMBLY SPACING

Design Spectral Acceleration Parameter, (S_{DS})	Brace Assembly Spacing	
	z/h ≤ 0.5[a]	z/h > 0.5[a,b]
S_{DS} ≤ 1.15	12'-0" x 12'-0"	12'-0" x 12'-0"
1.15 < S_{DS} ≤ 1.73	12'-0" x 12'-0"	8'-0" x 12'-0"
S_{DS} > 1.73	8'-0" x 12'-0"	8'-0" x 8'-0"

Footnotes:
a. Where, as defined in ASCE 7 Section 13.3.1:
z = height in structure of point of attachment of ceiling with respect to the base.
h = average roof height of the structure with respect to the base.
b. It shall be permitted to use the brace assembly spacing for "z/h > 0.5" for the full building height.

SEE ALT SHEET FOR FINAL CONFIGURATION OF CEILING AND S_{DS} VALUE SITE SPECIFIC

3.03 Hanger wires that are more than one (horizontal) in six (vertical) out of plumb shall have counter-sloping wires.

3.04 Slack safety wires shall be considered hanger wires for installation and testing requirements.

3.05 Hanger and bracing wire anchorage to the structure shall be installed in such a manner that the direction of the anchorage aligns closely with the direction of the wire (e.g., bracing wire ceiling clips must be bent as shown in the details and rotated as required to align closely with the direction of the wire, screw eyes in wood must be installed so they align closely with the direction of the wire, etc.).

4. FASTENERS AND WELDING

4.01 Sheet metal screws shall comply with ASTM C1513 and ASME B18.6.3. Penetration of screws through joined material shall not be less than three exposed threads.

4.02 Expansion anchors shall be: NA

4.03 Power-Actuated Fasteners shall be: NA

4.04 If not otherwise specified in the evaluation report, power-actuated fasteners installed in steel shall be installed so the entire pointed end of the fastener is driven through the steel member

4.05 Power-actuated fasteners in concrete or masonry are not permitted for bracing wires.

4.06 Concrete reinforcement and prestressing tendons shall be located by non-destructive means prior to installing post-installed anchors.

4.07 Welding shall be in accordance with AWS D1.3 using E60XX series electrodes.

5. TESTING

5.01 All field testing must be performed in the presence of the project inspector.

5.02 Post-installed anchors in concrete used to support hanger wires shall be tested at a frequency of 10 percent. Power-actuated fasteners in concrete shall be field tested for 200 pounds in tension. All other post-installed anchors in concrete shall be tested in accordance with CBC Section 1910A.5.

5.03 Post-installed anchors in concrete used to attach bracing wires shall be tested at a frequency of 50 percent in accordance with CBC Section 1910A5.

6. LUMINAIRES

6.01 All luminaires shall be positively attached to the ceiling suspension systems by mechanical means to resist a horizontal force equal to the weight of the luminaire. A minimum of two screws or approved fasteners are required at each luminaire, per ASTM E580 Section 5.3.1.

6.02 Surface-mounted luminaires shall be attached to the main runner with at least two positive clamping devices. The clamping device shall completely surround the supporting

Detail Title:	REV: 09/21/2015	Detail No.
CEILING NOTES	REV: 03/2022	1.00

ceiling runner and be made of steel with a minimum thickness of #14 gauge. Rotational spring catches do not comply. A #12 gauge slack safety wire shall be connected from each clamping device to the structure above. Provide additional supports when a luminaire is 8 feet or longer or exceeds 56 pounds. Maximum spacing between supports shall not exceed 8 feet.

6.03 Luminaires weighing less than or equal to 10 pounds may be supported directly on the ceiling runners, shall have a minimum of one #12 gauge slack safety wire connected from the fixture housing to the structure above.

6.04 Luminaires weighing greater than 10 pounds but less than or equal to 56 pounds may be supported directly on the ceiling runners, but they shall have a minimum of two #12 gauge slack safety wires connected from the fixture housing at diagonal corners to the structure above.

Exception: All luminaires greater than two by four feet weighing less than 56 pounds shall have a #12 gauge slack safety wire at each corner.

6.05 All luminaires weighing greater than 56 pounds shall be independently supported by not less than four taut #12 gauge hanger wires (one at each corner) attached from the fixture housing to the structure above or other approved hangers. The four taut #12 gauge wires or other approved hangers, including their attachment to the structure above, shall be capable of supporting four times the weight of the fixture.

7. SERVICES WITHIN THE CEILING

7.01 All flexible sprinkler hose fitting mounting brackets, ceiling-mounted air terminals or other services shall be positively attached to the ceiling suspension systems by mechanical means. Screws or approved fasteners are required. A minimum of two attachments are required at each component.

7.02 Ceiling-mounted air terminals or other services weighing less than or equal to 20 pounds shall have one #12 gauge slack safety wire attached from the terminal or service to the structure above.

7.03 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 20 pounds but less than or equal to 56 pounds shall have two #12 gauge slack safety wires (at diagonal corners) connected from the terminal or service to the structure above.

7.04 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 56 pounds shall be supported directly from the structure above by not less than four taut #12 gauge hanger wires attached from the terminal or service to the structure above or other approved hangers.

8. OTHER DEVICES WITHIN THE CEILING

8.01 All lightweight miscellaneous devices, such as strobe lights, occupancy sensors, speakers, exit signs, etc., shall be attached to the ceiling grid. In addition, devices weighing more than 10 pounds shall have a #12 gauge slack safety wire anchored to the structure above. Devices weighing more than 20 pounds shall be supported independently from the structure above.

Detail Title:	REV: 09/21/2015	Detail No.
CEILING NOTES	REV: 03/2022	1.00

NOTE:
1.ITEMS SHOWN WITH A MFR CALLOUT MAY BE SUBSTITUTED WITH AN OR EQUAL OR GREATER PRODUCT WITH DSA APPROVAL

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
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PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER JIMMY D. FRANKLIN No. 23380 03/31/24 CIVIL STRUCTURAL STATE OF CALIFORNIA
RST#22088
02/16/24

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APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
CEILING NOTES

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE

SHEET NO.
A3.2.1

SHEET OF

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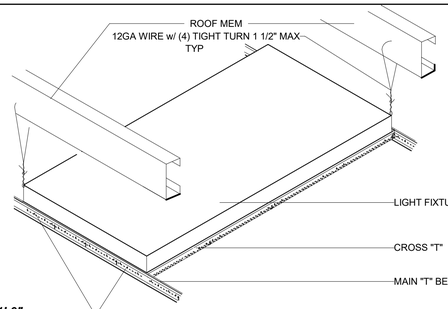
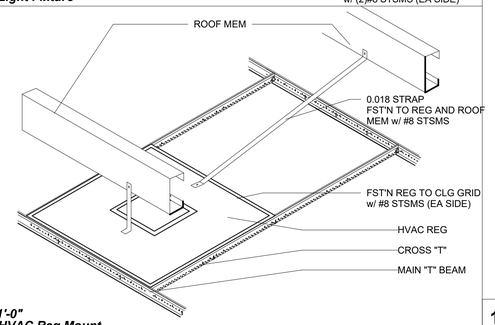
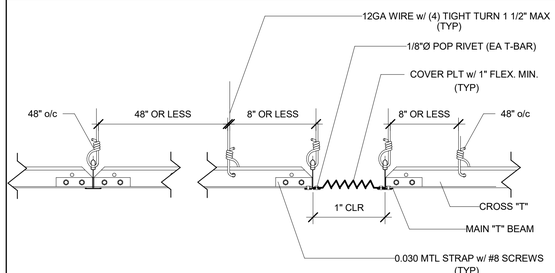


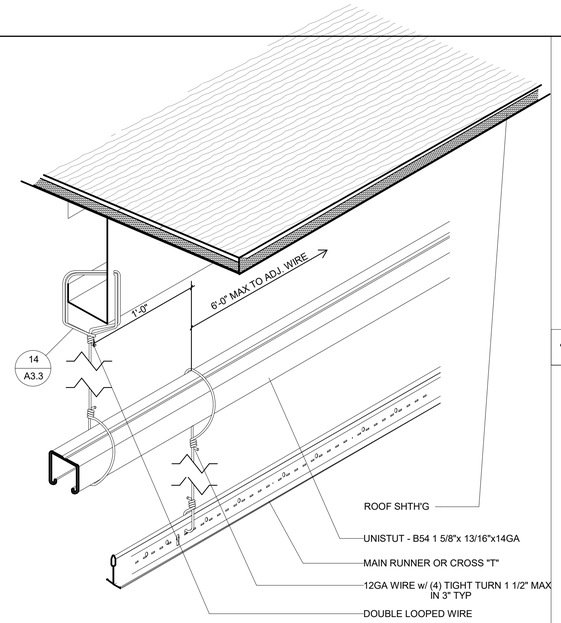
18 *1" = 1'-0"*
ISO - Light Fixture



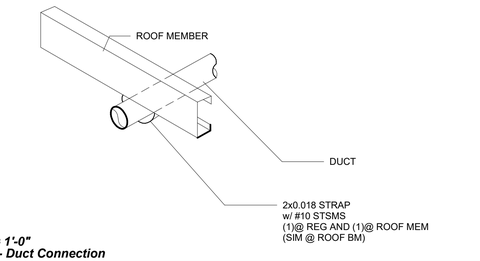
17 *1" = 1'-0"*
ISO - HVAC Reg Mount



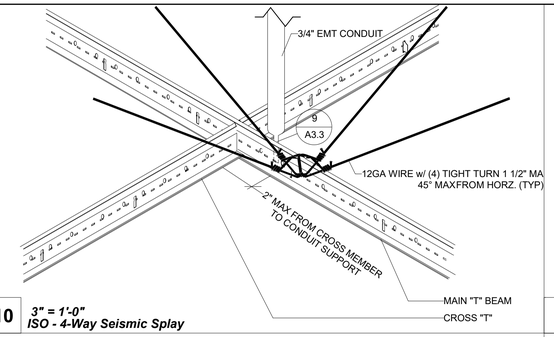
16 *3" = 1'-0"*
Section - "T" Grid @ Mod Line



12 *3" = 1'-0"*
ISO - Trapeze Condition



11 *1" = 1'-0"*
ISO - Duct Connection



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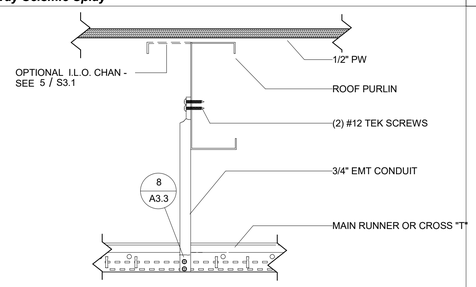
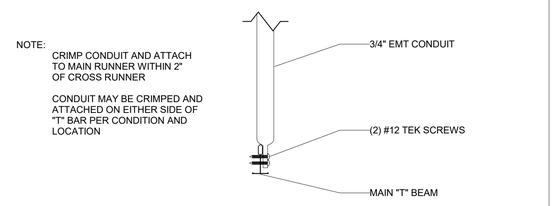
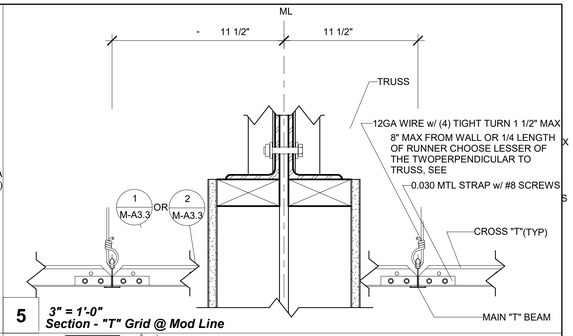
ISO - 4-Way Seismic Splay



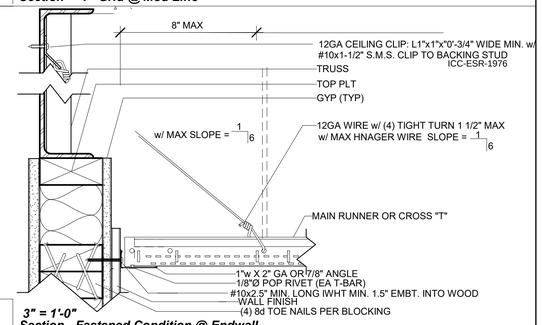
9 *3" = 1'-0"*
Elevation - Compression Strut



8 *3" = 1'-0"*
Section - Compression Strut



5 *3" = 1'-0"*
Section - "T" Grid @ Mod Line



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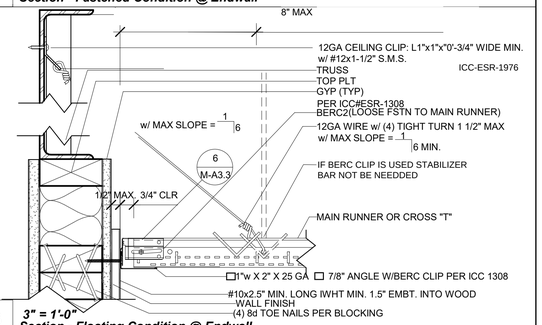
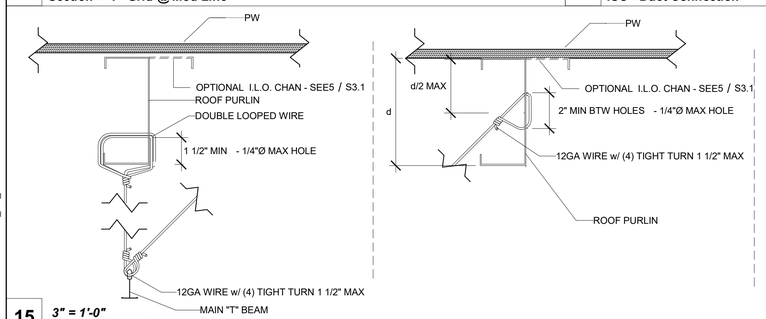
Section - Fastened Condition @ Endwall



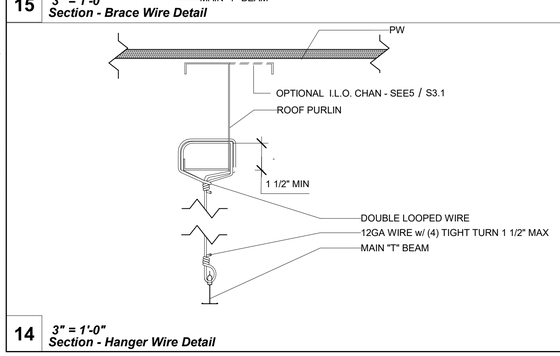
3 *3" = 1'-0"*
Section - Floating Condition @ Endwall

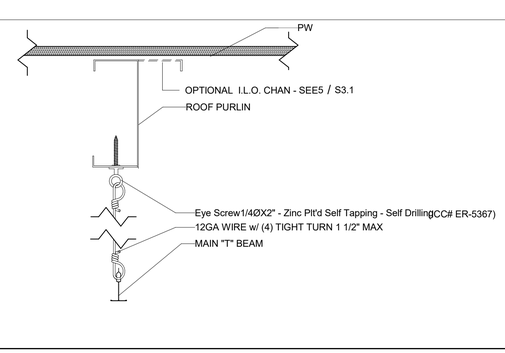


15 *3" = 1'-0"*
Section - Brace Wire Detail

7 *3" = 1'-0"*
Fixed Condition w/ 7/8" Angle

2 *3" = 1'-0"*
Section - Fastened Condition @ Sidewall





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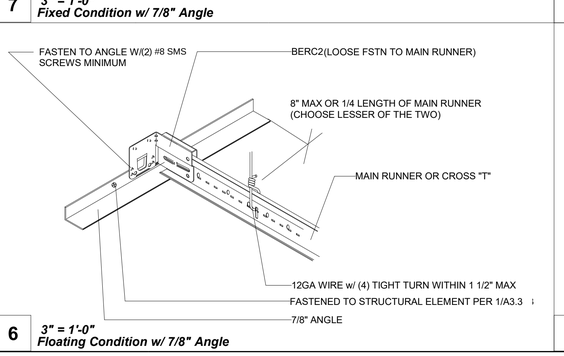
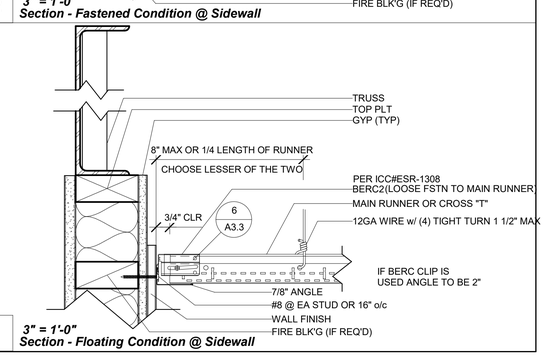
Section - Hanger Wire Detail



6 *3" = 1'-0"*
Floating Condition w/ 7/8" Angle



1 *3" = 1'-0"*
Section - Floating Condition @ Sidewall

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ♦ CONSULTING ♦ PROJECT MGT
11590 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

02/16/24

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CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

CEILING DETAILS (T-GRID)

PROJECT NUMBER 22088

DRAWN BY rMc/SC

CHECKED BY RH/RT

DATE

SHEET NO. A3.3

SHEET OF

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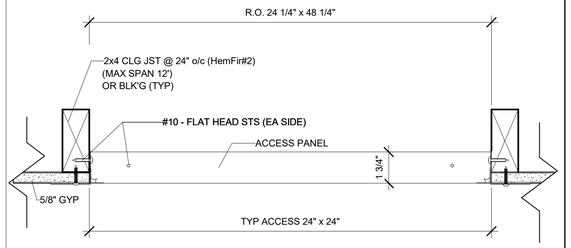
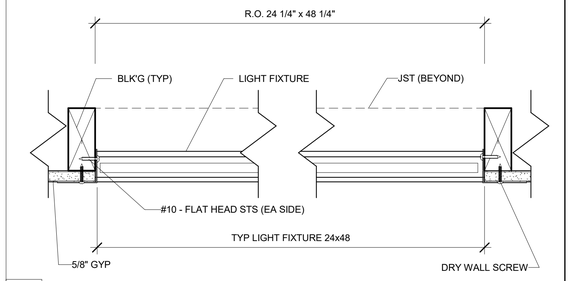
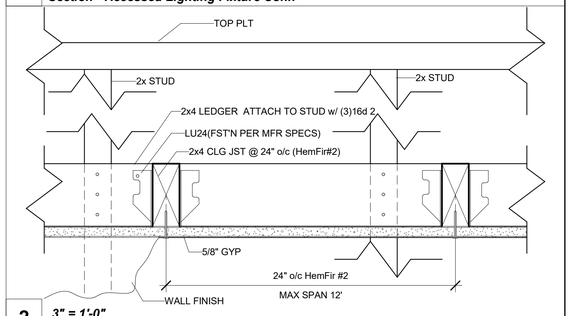


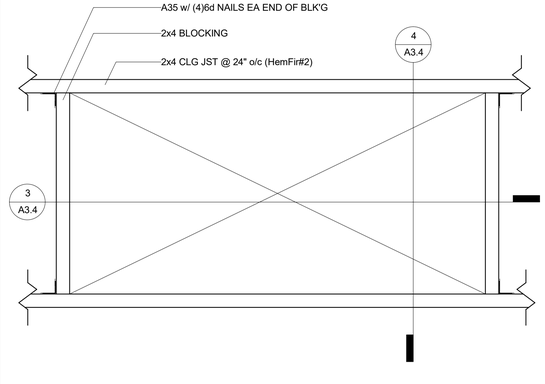
4 ***3" = 1'-0"***
Section @ Gyp Board Ceiling @ Access



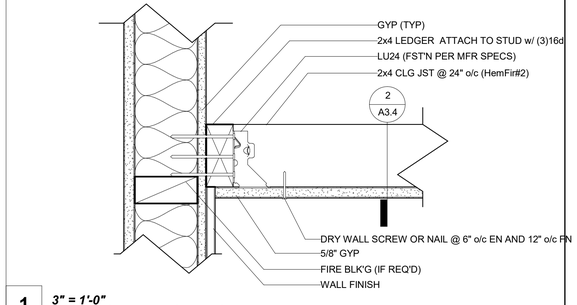
3 ***3" = 1'-0"***
Section - Recessed Lighting Fixture Conn



2 ***3" = 1'-0"***
Section @ Gyp Board Ceiling Connection



5 ***1 1/2" = 1'-0"***
Plan - Typ Fixture/Access Framing



1 ***3" = 1'-0"***
Section - Gyp Board Ceiling Connection

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
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www.rstavares.com

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APP: 04-123059 PC
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SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

CEILING DETAILS (GYP BOARD)

PROJECT NUMBER

22088

DRAWN BY

rMc/SC

CHECKED BY

RH/RT

DATE

SHEET NO.

A3.4

SHEET OF

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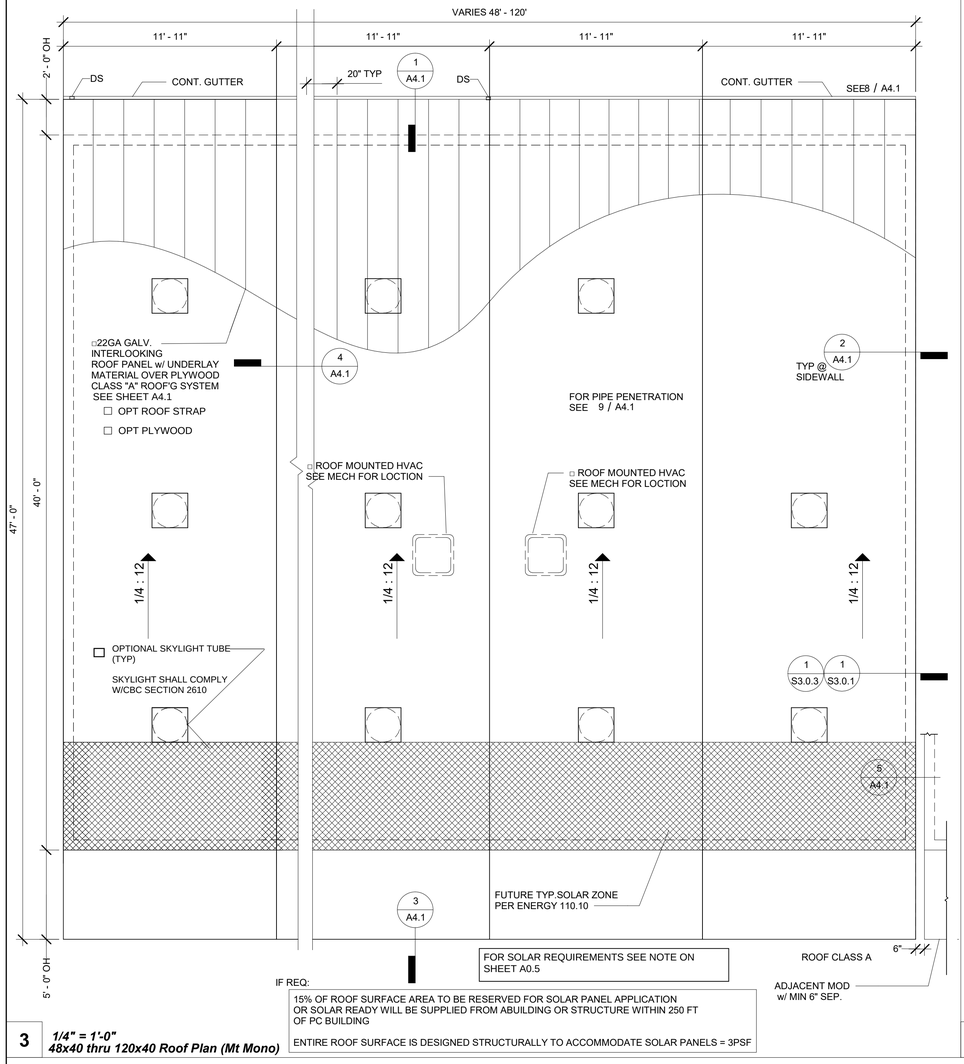
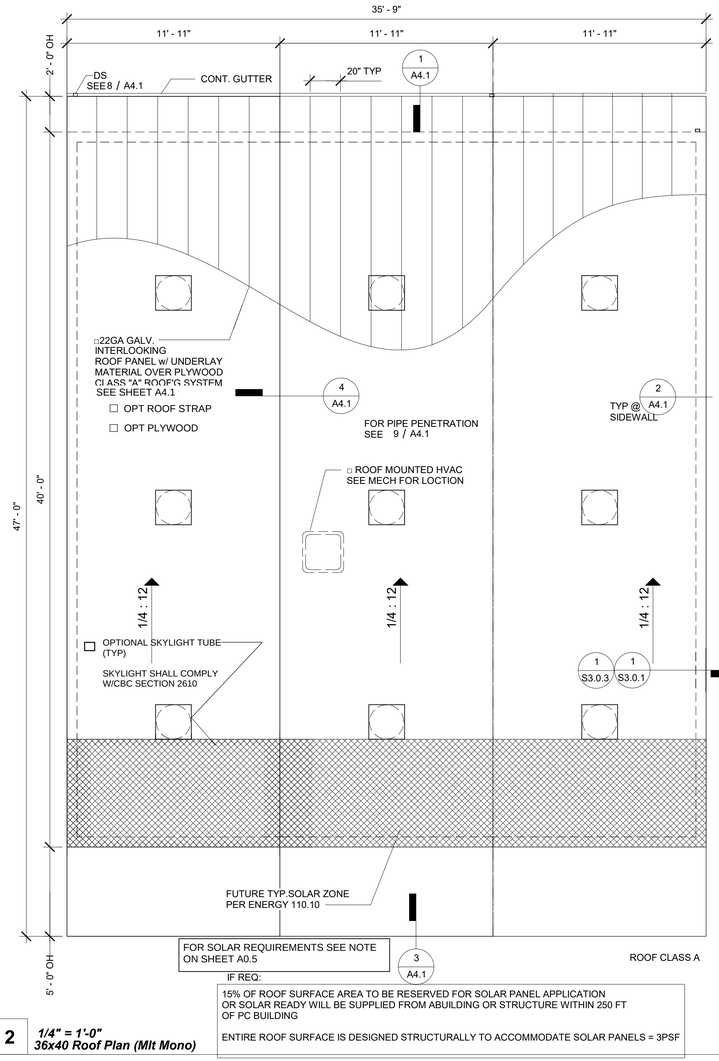
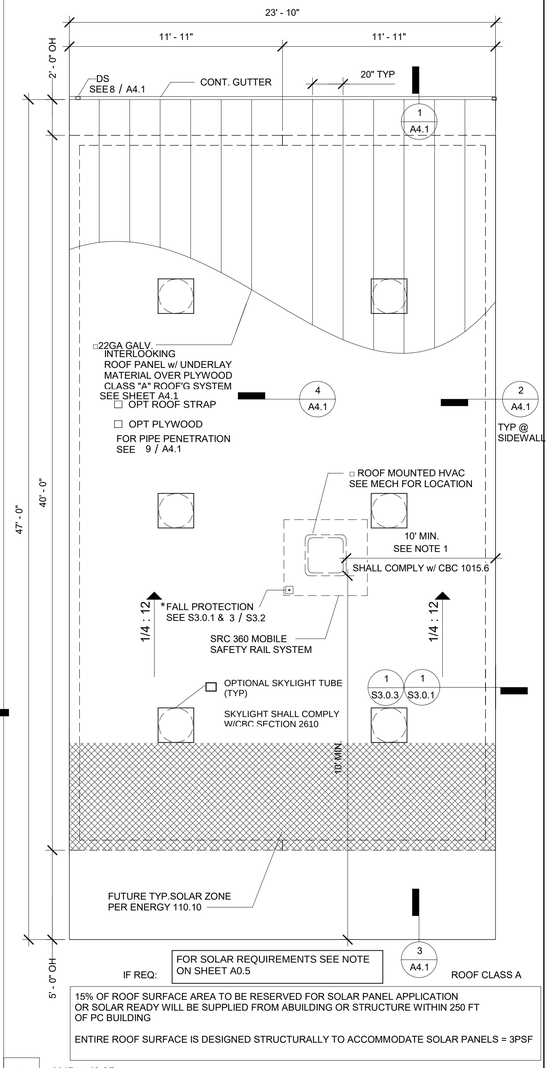


3 *1/4" = 1'-0"*
48x40 thru 120x40 Roof Plan (Mt Mono)



2 *1/4" = 1'-0"*
36x40 Roof Plan (Mlt Mono)



1 *1/4" = 1'-0"*
24x40 Roof Plan (Mtl Mono)

Note: For conditioned structures, roofing must be installed IAW 2019 CBC SECTION 1202.3

1202.3 Unvented Attic and Unvented Enclosed Rafter Assemblies

Unvented attics and unvented enclosed roof framing assemblies created by ceilings applied directly to the underside of the roof framing members/rafters and the structural roof sheathing at the top of the roof framing members shall be permitted where all of the following conditions are met:

1. The unvented attic space is completely within the building thermal envelope.
2. No interior Class I vapor retarders are installed on the ceiling side (attic floor) of the unvented attic assembly or on the ceiling side of the unvented enclosed roof framing assembly.
3. Where wood shingles or shakes are used, not less than a 1/4-inch (6.4 mm) vented airspace separates the shingles or shakes and the roofing underlayment above the structural sheathing.
4. In Climate Zones 14 and 16, any air-impermeable insulation shall be a Class II vapor retarder or shall have a Class II vapor retarder coating or covering in direct contact with the underside of the insulation.

   See the California Energy Code, Figure 100.1-A — California Climate Zones.

   4.1. **[HCD 1 & HCD 2]** In Climate Zones 14 and 16, a Class I or Class II vapor retarder shall be installed on the indirectly conditioned space side of all insulation in an unvented attic with air-permeable insulation, for condensation control.
5. Insulation shall be located in accordance with the following:

   5.1. Item 5.1.1, 5.1.2, 5.1.3 or 5.1.4 shall be met, depending on the air permeability of the insulation directly under the structural roof sheathing. No insulation shall be required when roof tiles, wood shingles or wood shakes, or any other roofing system using battens and no continuous underlayment is installed. A continuous underlayment shall be considered to exist if sheathing, roofing paper or any continuous layer having a perm rate of no more than one perm under the dry cup method is present.

   5.1.1. Where only air-impermeable insulation is provided, it shall be applied in direct contact with the underside of the structural roof sheathing.

   5.1.2. Where air-permeable insulation is provided inside the building thermal envelope, it shall be installed in accordance with

   Item 5.1.1. In addition to the air-permeable insulation installed directly below the structural sheathing, rigid board or sheet insulation shall be installed directly above the structural roof sheathing in accordance with the R-values in Table 1202.3 for condensation control.

   5.1.3. Where both air-impermeable and air-permeable insulation are provided, the air-impermeable insulation shall be applied in direct contact with the underside of the structural roof sheathing and shall be in accordance with the R-values in Table 1202.3 for condensation control. The air-permeable insulation shall be installed directly under the air-impermeable insulation.

   5.1.4. Alternatively, sufficient rigid board or sheet insulation shall be installed directly above the structural roof sheathing to maintain the monthly average temperature of the underside of the structural roof sheathing above 45°F (7°C). For calculation purposes, an interior air temperature of 68°F (20°C) is assumed and the exterior air temperature is assumed to be the monthly average outside air temperature of the three coldest months.

   5.2. Where preformed insulation board is used as the air-impermeable insulation layer, it shall be sealed at the perimeter of each individual sheet interior surface to form a continuous layer.

Exceptions:

1. Section 1202.3 does not apply to special use structures or enclosures such as swimming pool enclosures, data processing centers, hospitals or art galleries.
2. Section 1202.3 does not apply to enclosures in Climate Zones 14 and 16 that are humidified beyond 35 percent during the three coldest months.

TABLE 1202.3
INSULATION FOR CONDENSATION CONTROL

CLIMATE ZONE	MINIMUM *R*-VALUE OF AIR-IMPERMEABLE INSULATION[a]
2B and 3B tile roof only	0 (none required)
1, 2A, 2B, 3A, 3B, 3C	R-5
4C	R-10
4A, 4B	R-15
5	R-20
6	R-25
7	R-30
8	R-35

a. Contributes to, but does not supersede, thermal resistance requirements for attic and roof assemblies in the *California Energy Code*.

NOTE: PER CBC 1015.6, - EXCEPTION, GUARDRAILS ARE NOT REQUIRED WHERE PERMANENT FALL RESTRAINT ANCHORAGE DEVICES ARE AFFIXED & SHALL BE PLACED NOT MORE THAN 10FT FROM THE ROOF EDGE.

ROOFS SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 7A AND CHAPTER 15. ROOFS SHALL HAVE A ROOFING ASSEMBLY INSTALLED IN ACCORDANCE WITH ITS LISTING AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

* IF ROOF MOUNTED UNIT IS APPLIED

PV AREA FOR FIRE ACCESS REQ'T (PER IR 16-8)

3.2.1 General Requirements: A PV System shall be typically considered equipment. There is typically not an occupancy group classification, building area limitation, or type of construction assignment to a PV system.
a) PV equipment supported by non-combustible framing installed in locations dedicated for building frontage used for area increases per California Building Code (CBC), Chapter 5, Section 506, shall be limited in size and may be allowed on a case by case basis. Maximum area that may be allowed for such systems shall not exceed 1/3 of the horizontal projected area of each frontage.
b) Open sided PV systems and framing that are non-combustible and without use underneath may be considered equipment and may be placed next to DSA IR 16-8 Solar Photovoltaic and Thermal (updated 01-25-17) Systems Review and Approval Requirements Page 11 of 19 property lines. Signs may be required on or near the system prohibiting any use or storage underneath the equipment.
c) Combustible PV systems and framing and those with use underneath such as for assembly or parking, may need to comply with 2022 CBC, Table 602. These structures may include those that do and that do not have a roof underneath the PV system.
d) PV systems (both the frame and the array) shall not be placed in fire department access roads. (Per Title 24 CCR, Division 1, Chapter 1, Section 3.05 and 2022 CFC Chapter 5, Section 503.)
e) Access to a public way or safe dispersal area shall not be obstructed by the system or system framing. (CBC 1027.6 and 442.3)
f) PV systems that cover a lunch area or similar (occupant load less than 50), that are not used for assembly purposes shall be considered equipment. Playgrounds would also fall into this category regardless of total occupant load.
g) Any PV system that is installed above an assembly use (i.e. Group A-3 or A-5 occupancy classification) shall be considered an open sided building structure and all or portions of CBC provisions apply on a case by case basis. Such areas might include an outdoor amphitheater, bleacher or grandstand seating with concentrated occupant loads and heavy use.
h) Fire Department concern for the installation of roof mounted PV systems will be addressed by DSA review to the State Fire Marshal Solar Photovoltaic Installation Guideline available at: http://osfm.fire.ca.gov/pdf/reports/solarphotovoltaicguideline.pdf
i) When a PV system, without riser framework, is installed directly on a rated roof assembly with a required classification greater than "Class C" found in CBC, Chapter 15, and f

PROJECT SPECIFIC STATE AGENCY APPROVAL

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www.rstavares.com

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REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRANCISCO
No. C-53380
03/31/24
CIVIL
STRUCTURAL
STATE OF CALIFORNIA
RST#22088
02/16/24

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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

ROOF PLAN MONO SLOPE (STANDING SEAM)

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE

SHEET NO.
A4.0.1

SHEET OF

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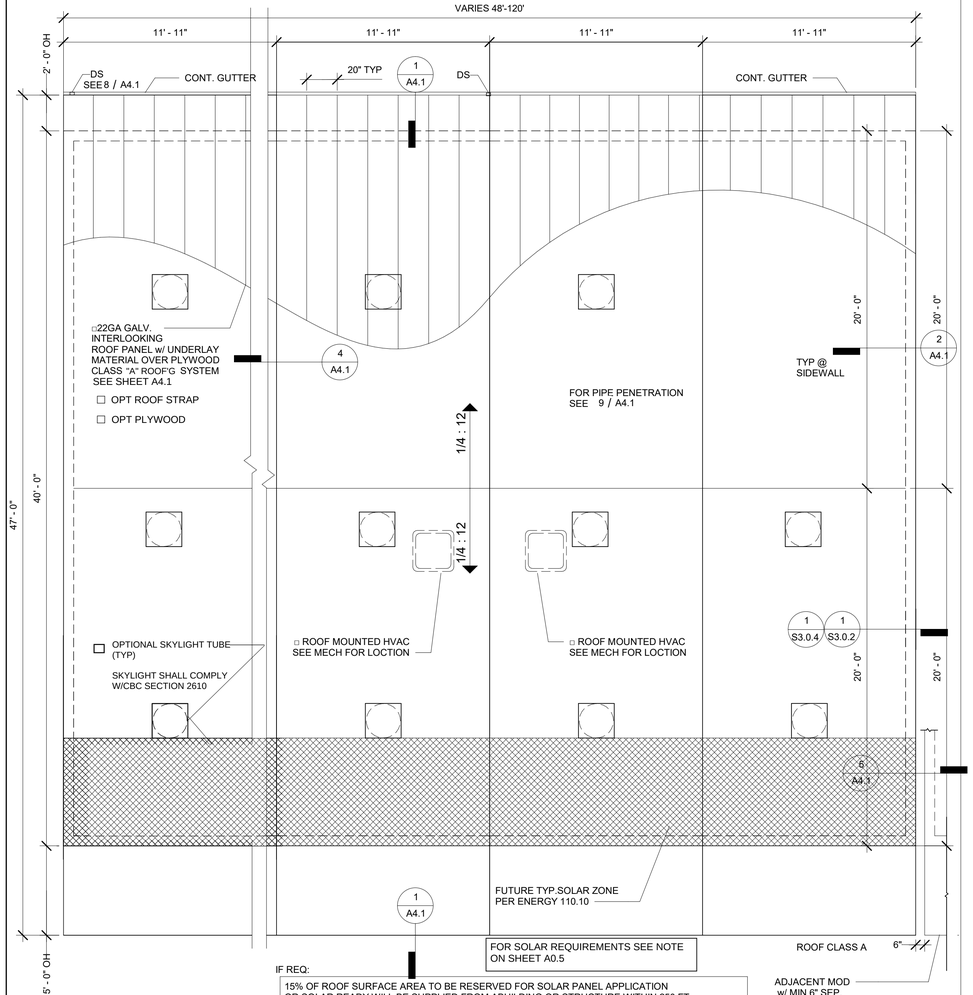
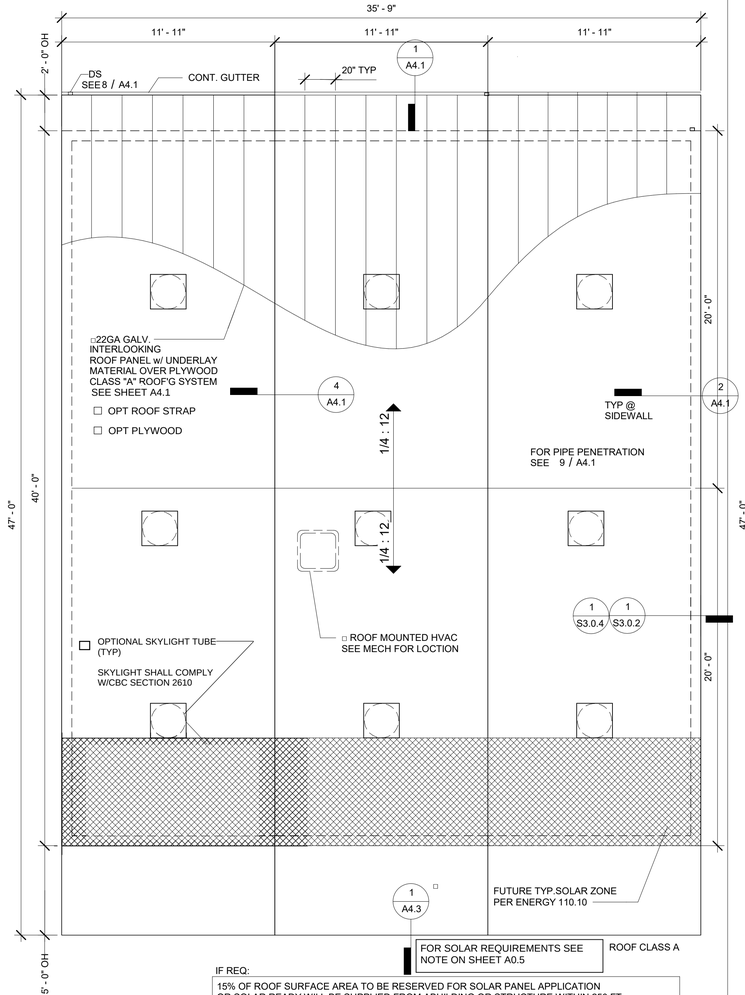


3 *1/4" = 1'-0"*
48x40 thru 120x40 Roof Plan (Mtl Dual)



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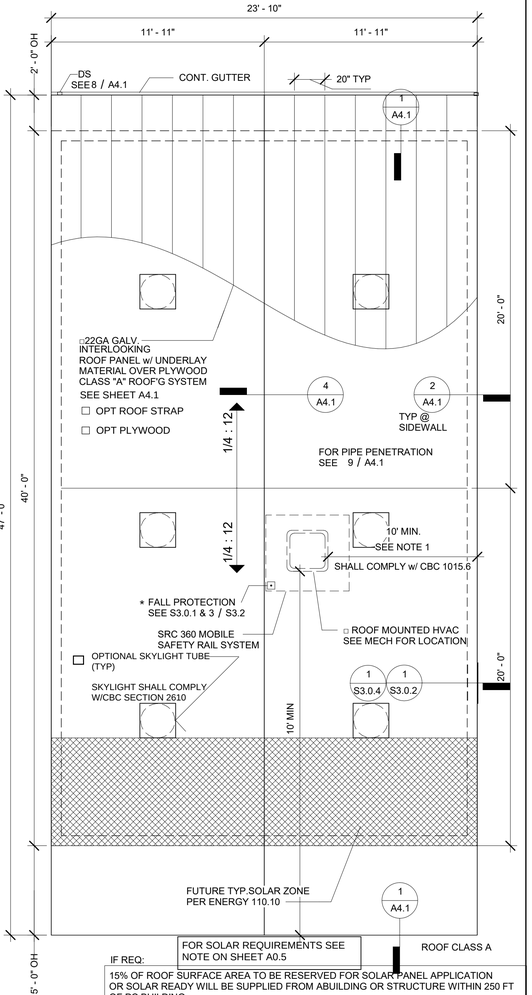

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REGISTERED PROFESSIONAL ENGINEER
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No. 33380
03/31/24
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Code: 2022 CBC

A separate project application for construction is required

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PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

ROOF PLAN DUAL SLOPE (STANDING SEAM)

PROJECT NUMBER 22088

DRAWN BY rMc/SC

CHECKED BY RH/RT

DATE

SHEET NO. A4.0.2

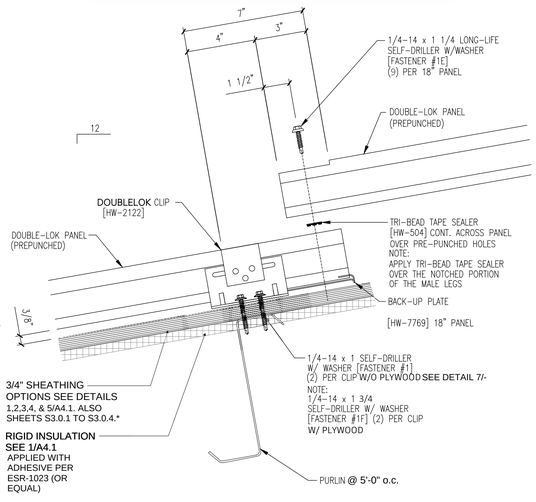
SHEET OF

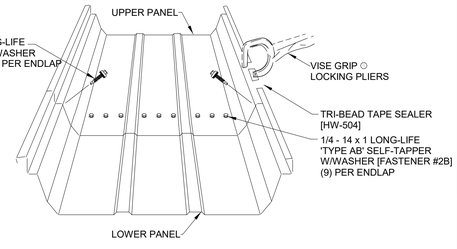
C:\Users\User\Documents\20093 - Aries, 24x40 PC - MainFile - Low Seismic_6.7_CES\AR24D83.rvt
6/15/2021 11:51:12 PM

Clip - 2" Sliding (Low)

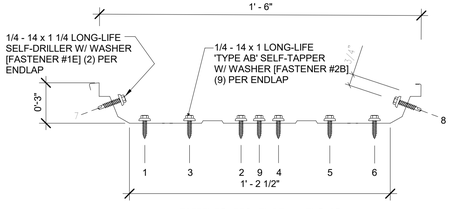
Note:
- Specify SSR System
- Clip fasteners must be ordered separately.
- 1½" movement in each direction

DESCRIPTION				PRICED PER EACH
PART #	SSR SYSTEM	HEIGHT	WEIGHT EACH	PRICE
HW-2122	Double-Lok®	3½"	50#	✓





PANEL INSTALLATION SEQUENCE



FASTENER SEQUENCE @ ENDLAP

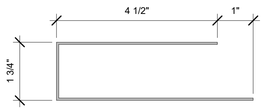
18" DOUBLE-LOK 22GA STANDING SEAM PANEL BY MBCI			
NEG.		POS.	
t	= 0.0299"	t	= 0.0299"
S_x	= 0.1846 IN³	S_x	= 0.2154 IN³
I_x	= 0.2718 IN⁴	I_x	= 0.4968 IN⁴
F_y	= 50 KSI	F_y	= 50 KSI

FOR ALL METAL ROOFING SYSTEMS USE OR EQUAL

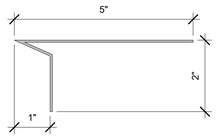
* PLYWOOD UNDERLAY IS USED PER S3.0.1 & S3.0.2 CONDITIONS AND IS OPTIONAL AT THE METAL DECK CONDITIONS PER S3.0.3 & S3.0.4

MIAMI-DADE COUNTY NOA NO. 21-0615.07

15

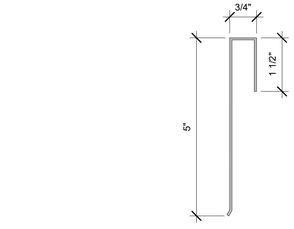


14 ***6" = 1'-0"***
FLASHING @ ROOF HIGH SIDE



13 ***6" = 1'-0"***
FLASHING @ ROOF LOW SIDE

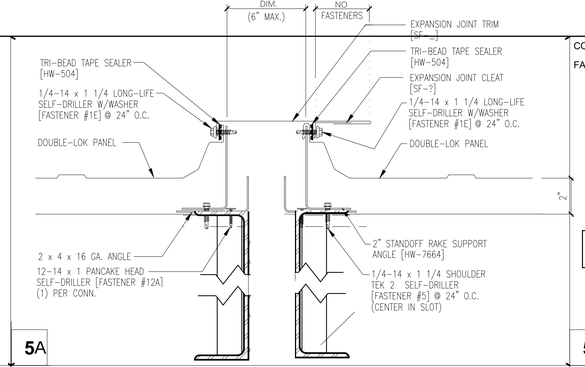
12 ***6" = 1'-0"***
ROOF FLASHING



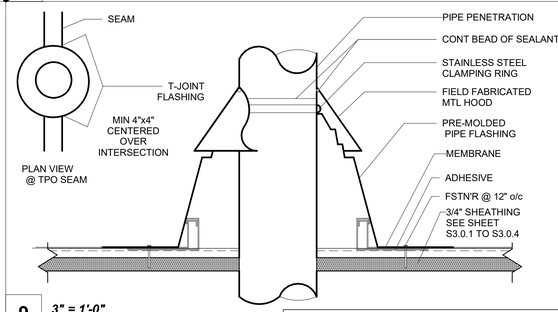
11 ***6" = 1'-0"***
ROOF FLASHING @ SIDEWALL

10A ***6" = 1'-0"***
FLASHING @ MODLINE WALL

10 ***6" = 1'-0"***
ROOF CAP @ MODLINE

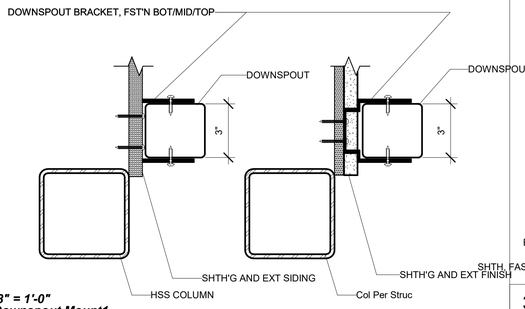


5A

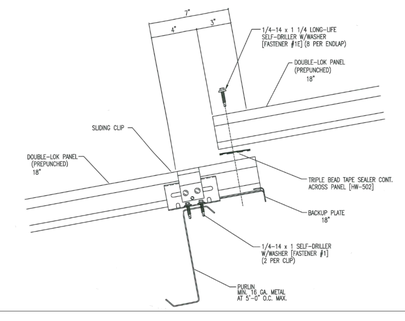


9 ***3" = 1'-0"***
Pipe Penetration Standing Seam

ALL FSTN'G & WATER PROOF'G/FLASHING PER MNFR SPECS



8 ***3" = 1'-0"***
Downspout Mount1



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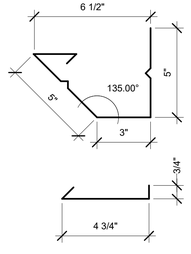
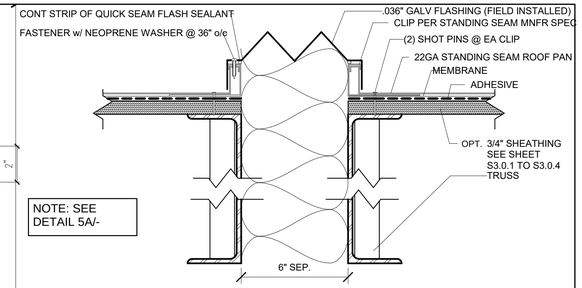
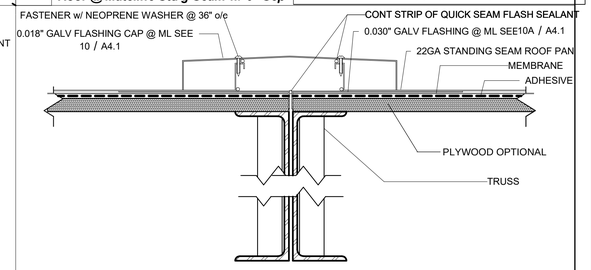


6 ***3" = 1'-0"***
Gutter and Strap1



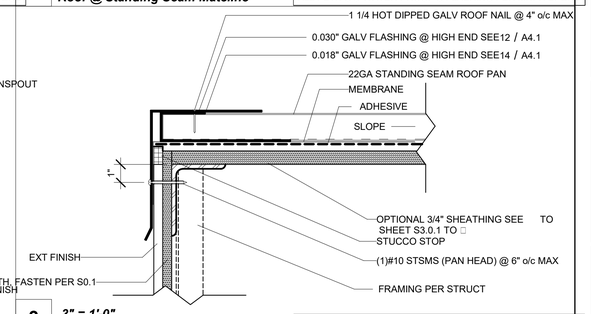
5 ***3" = 1'-0"***
Roof @ Mateline Std'g Seam w/ 6" Sep

ALL FSTN'G & WATER PROOF'G/FLASHING PER MNFR SPECS



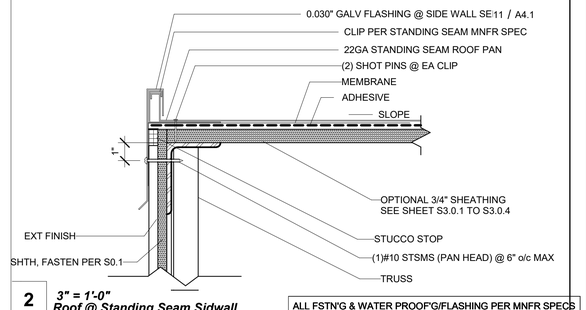
4 ***3" = 1'-0"***
Roof @ Standing Seam Mateline

ALL FSTN'G & WATER PROOF'G/FLASHING PER MNFR SPECS



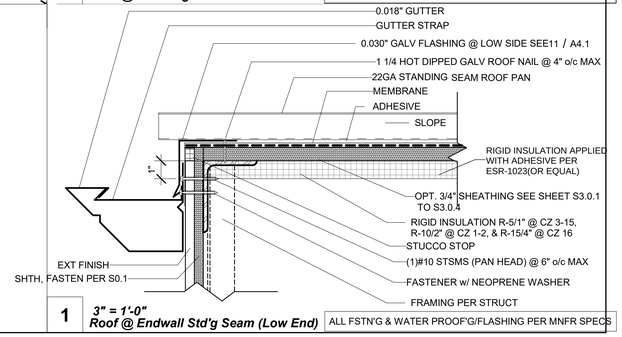
3 ***3" = 1'-0"***
Roof @ Endwall Std'g Seam (High End)

ALL FSTN'G & WATER PROOF'G/FLASHING PER MNFR SPECS



2 ***3" = 1'-0"***
Roof @ Standing Seam Sidwall

ALL FSTN'G & WATER PROOF'G/FLASHING PER MNFR SPECS



1 ***3" = 1'-0"***
Roof @ Endwall Std'g Seam (Low End)

ALL FSTN'G & WATER PROOF'G/FLASHING PER MNFR SPECS

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
11590 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

02/16/24

THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEVISED SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. ©

CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

ROOF DETAILS (STANDING SEAM)

PROJECT NUMBER

22088

DRAWN BY

rMc/SC

CHECKED BY

RH/RT

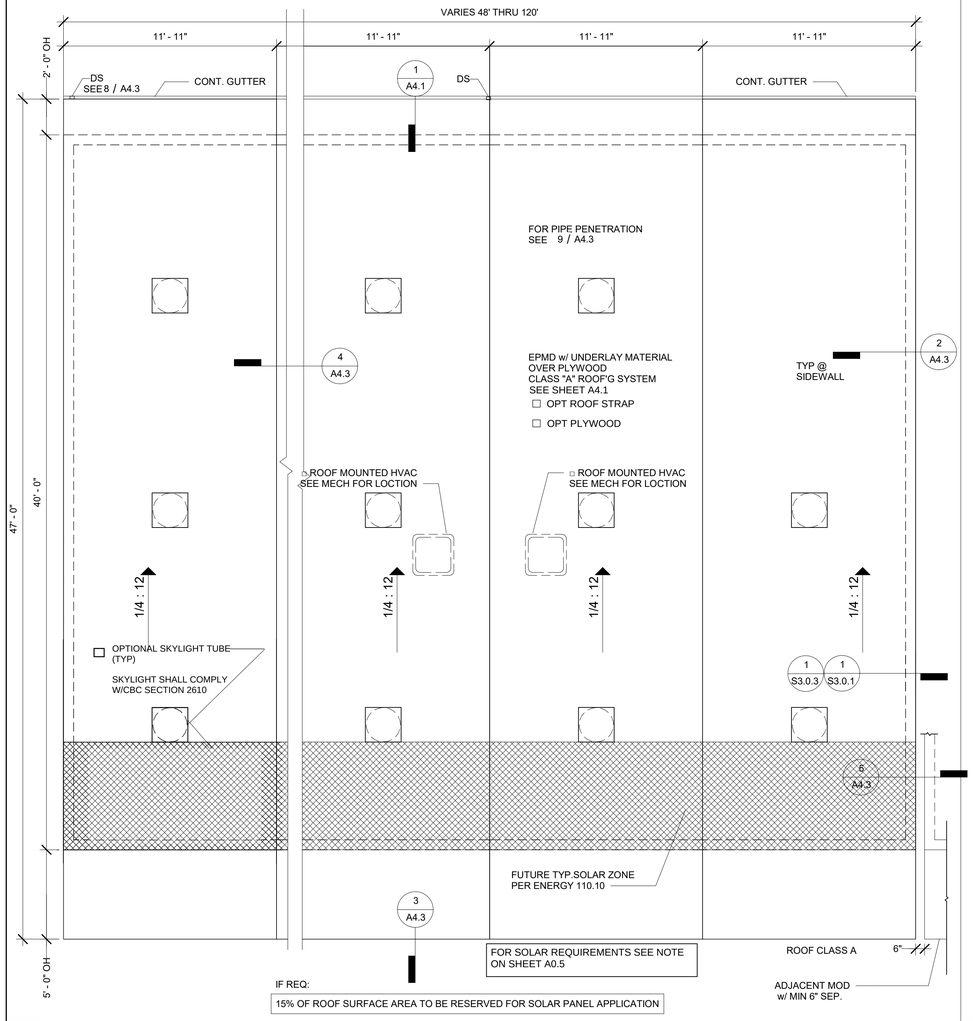
DATE

SHEET NO.

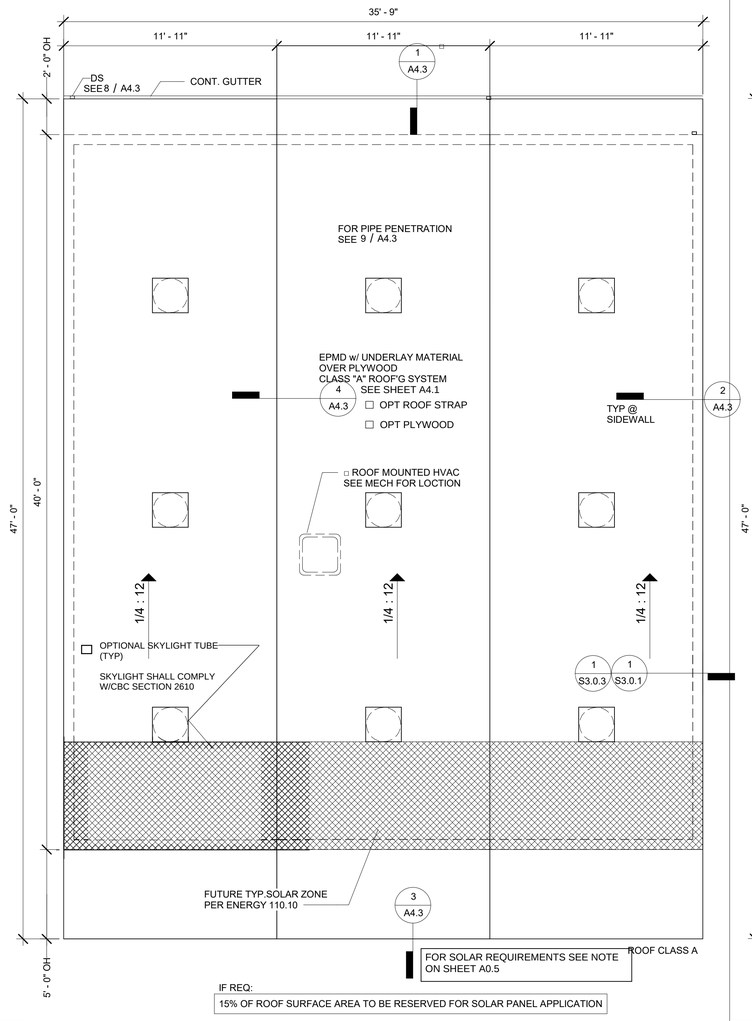
A4.1

SHEET OF

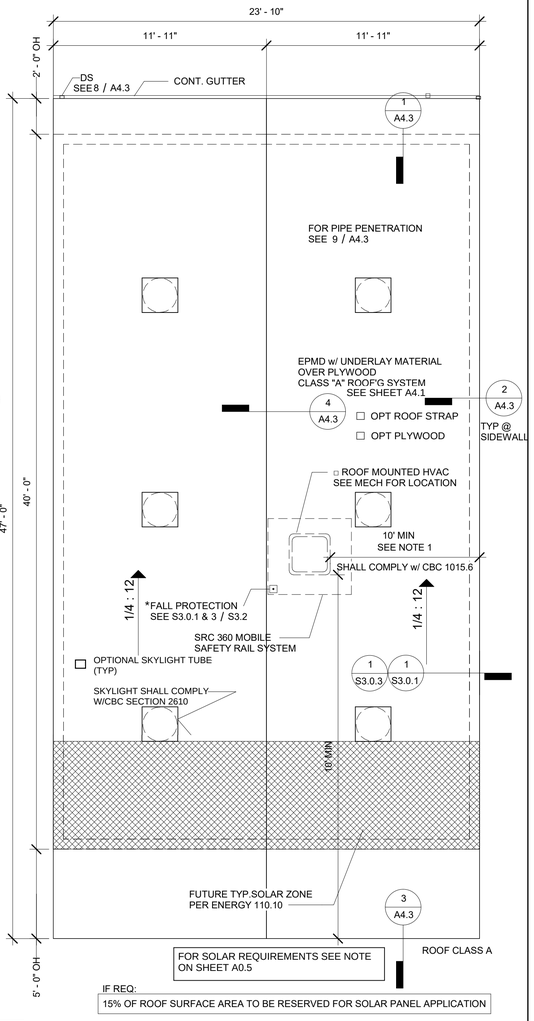
6/15/2021 11:51:15 PM C:\Users\User\Documents\20093 - Aries, 24x40 PC - MainFile - Low Seismic_6.7_CESAR24D63.rvt



3 *1/4" = 1'-0"*
48x40 thru 120x40 Roof Plan (EPDM Mono)



2 *1/4" = 1'-0"*
36x40 Roof Plan (EPDM Mono)



1 *1/4" = 1'-0"*
24x40 Roof Plan (EPDM Mono)

Note: For conditioned structures, roofing must be installed IAW 2022 CBC SECTION 1202.3

1202.3 Unvented Attic and Unvented Enclosed Rafter Assemblies

Unvented attics and unvented enclosed roof framing assemblies created by ceilings applied directly to the underside of the roof framing members/rafters and the structural roof sheathing at the top of the roof framing members shall be permitted where all of the following conditions are met:

1. The unvented attic space is completely within the building thermal envelope.
2. No interior Class I vapor retarders are installed on the ceiling side (attic floor) of the unvented attic assembly or on the ceiling side of the unvented enclosed roof framing assembly.
3. Where wood shingles or shakes are used, not less than a 1/4-inch (6.4 mm) vented airspace separates the shingles or shakes and the roofing underlayment above the structural sheathing.
4. In Climate Zones 14 and 16, any air-impermeable insulation shall be a Class II vapor retarder or shall have a Class II vapor retarder coating or covering in direct contact with the underside of the insulation.

   See the California Energy Code, Figure 100.1-A — California Climate Zones.

   4.1. **[HCD 1 & HCD 2]** In Climate Zones 14 and 16, a Class I or Class II vapor retarder shall be installed on the indirectly conditioned space side of all insulation in an unvented attic with air-permeable insulation, for condensation control.
5. Insulation shall be located in accordance with the following:

   5.1. Item 5.1.1, 5.1.2, 5.1.3 or 5.1.4 shall be met, depending on the air permeability of the insulation directly under the structural roof sheathing. No insulation shall be required when roof tiles, wood shingles or wood shakes, or any other roofing system using battens and no continuous underlayment is installed. A continuous underlayment shall be considered to exist if sheathing, roofing paper or any continuous layer having a perm rate of no more than one perm under the dry cup method is present.

   5.1.1. Where only air-impermeable insulation is provided, it shall be applied in direct contact with the underside of the structural roof sheathing.

   5.1.2. Where air-permeable insulation is provided inside the building thermal envelope, it shall be installed in accordance with

   Item 5.1.1. In addition to the air-permeable insulation installed directly below the structural sheathing, rigid board or sheet insulation shall be installed directly above the structural roof sheathing in accordance with the R-values in Table 1202.3 for condensation control.

   5.1.3. Where both air-impermeable and air-permeable insulation are provided, the air-impermeable insulation shall be applied in direct contact with the underside of the structural roof sheathing and shall be in accordance with the R-values in Table 1202.3 for condensation control. The air-permeable insulation shall be installed directly under the air-impermeable insulation.

   5.1.4. Alternatively, sufficient rigid board or sheet insulation shall be installed directly above the structural roof sheathing to maintain the monthly average temperature of the underside of the structural roof sheathing above 45°F (7°C). For calculation purposes, an interior air temperature of 68°F (20°C) is assumed and the exterior air temperature is assumed to be the monthly average outside air temperature of the three coldest months.

   5.2. Where preformed insulation board is used as the air-impermeable insulation layer, it shall be sealed at the perimeter of each individual sheet interior surface to form a continuous layer.

Exceptions:

1. Section 1202.3 does not apply to special use structures or enclosures such as swimming pool enclosures, data processing centers, hospitals or art galleries.
2. Section 1202.3 does not apply to enclosures in Climate Zones 14 and 16 that are humidified beyond 35 percent during the three coldest months.

TABLE 1202.3
INSULATION FOR CONDENSATION CONTROL

CLIMATE ZONE	MINIMUM *R*-VALUE OF AIR-IMPERMEABLE INSULATION[a]
2B and 3B tile roof only	0 (none required)
1, 2A, 2B, 3A, 3B, 3C	R-5
4C	R-10
4A, 4B	R-15
5	R-20
6	R-25
7	R-30
8	R-35

a. Contributes to, but does not supersede, thermal resistance requirements for attic and roof assemblies in the *California Energy Code*.

NOTE: PER CBC 1015.6, - EXCEPTION, GUARDRAILS ARE NOT REQUIRED WHERE PERMANENT FALL RESTRAINT ANCHORAGE DEVICES ARE AFFIXED & SHALL BE PLACED NOT MORE THAN 10FT FROM THE ROOF EDGE.

* IF ROOF MOUNTED UNIT IS APPLIED

PV REQUIREMENTS:

1.7 REQUIRED PHOTOVOLTAIC (PV) SYSTEMS

WHEN A PV SYSTEM IS REQUIRED BY THE CALIFORNIA ENERGY CODE FOR A PC BUILDING CONFIGURATION, THE PV SYSTEM DESIGN SHALL BE IN ACCORDANCE WITH IR 16-8: SOLAR PHOTOVOLTAIC AND THERMAL SYSTEMS REVIEW AND APPROVAL REQUIREMENTS. THE PC DESIGN SHALL SHOW THAT THE STRUCTURE CAN SUPPORT THE REQUIRED SYSTEM LOADS WHEN THE BUILDING IS SUPPORTING THE PV SYSTEM. THE PV SYSTEM DESIGN MAY BE INCLUDED IN THE PC OR MAY BE SUBMITTED WITH THE PC AT THE TIME OF THE SITTING APPLICATION.

8.3 REQUIRED PHOTOVOLTAIC (PV) SYSTEMS ENERGY REVIEW

WHEN A PV SYSTEM IS REQUIRED PER THE CALIFORNIA ENERGY CODE FOR A PC CONFIGURATION, THE SYSTEM POWER REQUIREMENTS SHALL BE CLEARLY DELINEATED ON THE PC PLANS IN THE DESIGN INFORMATION SECTION FOR THE PC. SEE SECTION 1.7 ABOVE FOR DESIGN AND SUBMITTAL REQUIREMENTS OF THE PV SYSTEM.

PV AREA FOR FIRE ACCESS REQ'T (PER IR 16-8)

3.2.1 General Requirements: A PV System shall be typically considered equipment. There is typically not an occupancy group classification, building area limitation, or type of construction assignment to a PV system.
a) PV equipment supported by non-combustible framing installed in locations dedicated for building frontage used for area increases per California Building Code (CBC), Chapter 5, Section 506, shall be limited in size and may be allowed on a case by case basis. Maximum area that may be allowed for such systems shall not exceed 1/3 of the horizontal projected area of each frontage.
b) Open sided PV systems and framing that are non-combustible and without use underneath may be considered equipment and may be placed next to DSA IR 16-8 Solar Photovoltaic and Thermal (updated 01-25-17) Systems Review and Approval Requirements Page 11 of 19 property lines. Signs may be required on or near the system prohibiting any use or storage underneath the equipment.
c) Combustible PV systems and framing and those with use underneath such as for assembly or parking, may need to comply with 2022 CBC, Table 602. These structures may include those that do and that do not have a roof underneath the PV system.
d) PV systems (both the frame and the array) shall not be placed in fire department access roads. (Per Title 24 CCR, Division 1, Chapter 1, Section 3.05 and 2022 CFC Chapter 5, Section 503.)
e) Access to a public way or safe dispersal area shall not be obstructed by the system or system framing. (CBC 1027.6 and 442.3)
f) PV systems that cover a lunch area or similar (occupant load less than 50), that are not used for assembly purposes shall be considered equipment. Playgrounds would also fall into this category regardless of total occupant load.
g) Any PV system that is installed above an assembly use (i.e. Group A-3 or A-5 occupancy classification) shall be considered an open sided building structure and all or portions of CBC provisions apply on a case by case basis. Such areas might include an outdoor amphitheater, bleacher or grandstand seating with concentrated occupant loads and heavy use.
h) Fire Department concern for the installation of roof mounted PV systems will be addressed by DSA review to the State Fire Marshal Solar Photovoltaic Installation Guideline available at: http://osfm.fire.ca.gov/pdf/reports/solarphotovoltaicguideline.pdf
i) When a PV system, without riser framework, is installed directly on a rated roof assembly with a required classification greater than "Class C" found in CBC, Chapter 15, and f

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
11590 W Bernardo Court, Suite 100
San Diego, CA 92127
www.rstavares.com

PROFESSIONAL STAMP

02/16/24

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CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

ROOF PLAN MONO SLOPE (EPDM)

PROJECT NUMBER

22088

DRAWN BY

rMc/SC

CHECKED BY

RH/RT

DATE

SHEET NO.

A4.2.1

SHEET OF

C:\Users\User\Documents\20093 - Aries, 24x40 PC - MainFile - Low Seismic_6.7_CES\AR24D63.rvt
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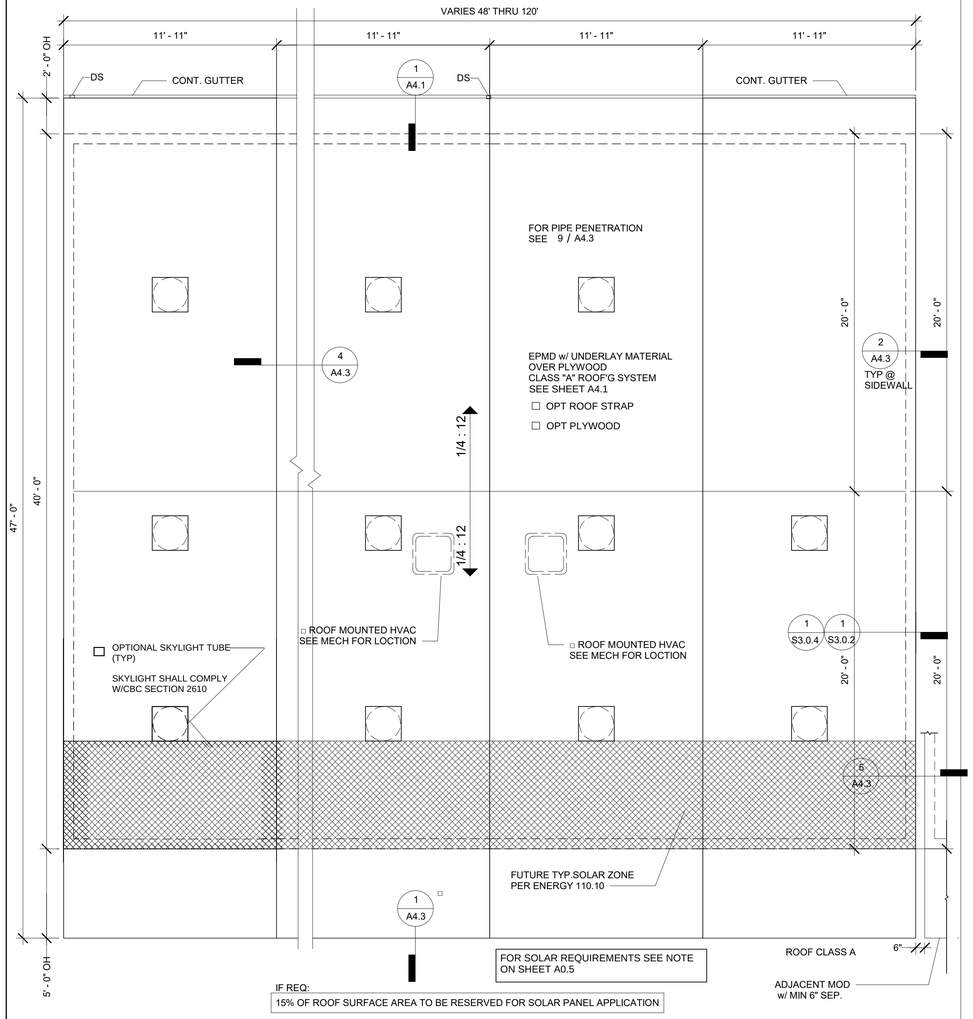
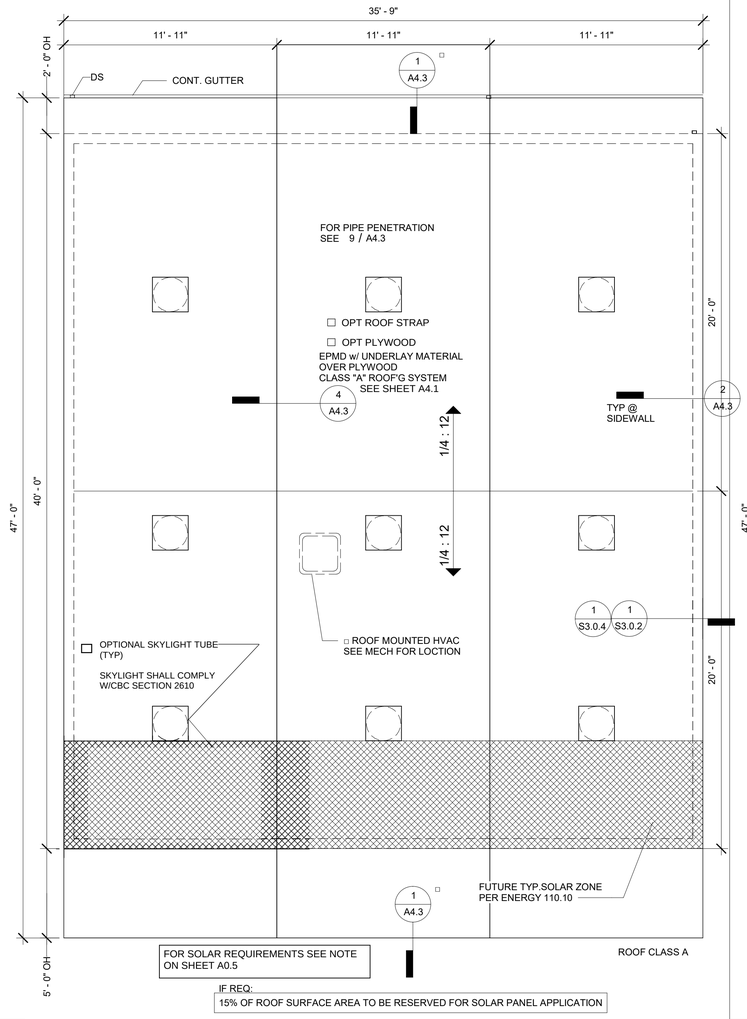
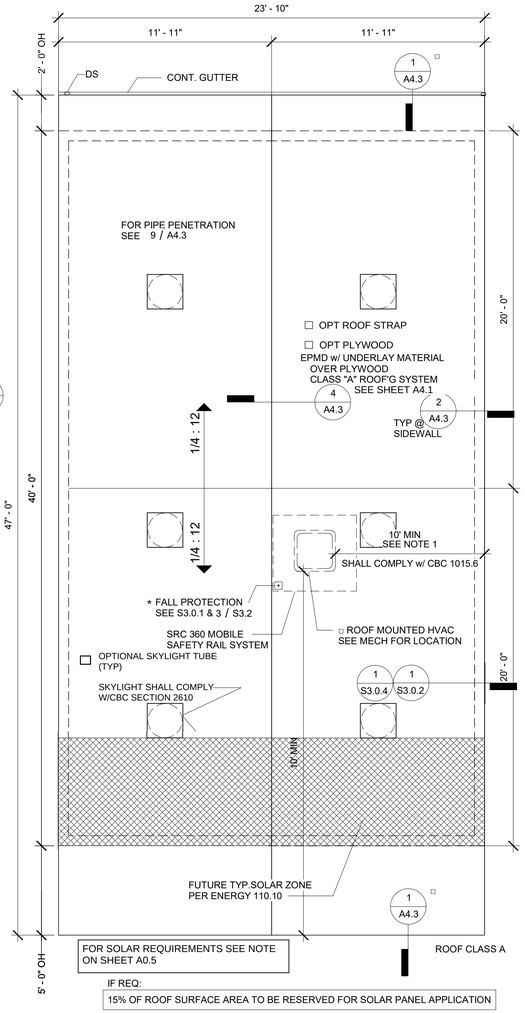


3 ***1/4" = 1'-0"***
48x40 thru 120x40 Roof Plan (EPDM Dual)



2 ***1/4" = 1'-0"***
36x40 Roof Plan (EPDM Dual)



1 ***1/4" = 1'-0"***
24x40 Roof Plan (EPDM Dual)

Note: For conditioned structures, roofing must be installed IAW 2022 CBC SECTION 1202.3

1202.3 Unvented Attic and Unvented Enclosed Rafter Assemblies

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4. In Climate Zones 14 and 16, any air-impermeable insulation shall be a Class II vapor retarder or shall have a Class II vapor retarder coating or covering in direct contact with the underside of the insulation.

   See the California Energy Code, Figure 100.1-A — California Climate Zones.

   4.1. **[HCD 1 & HCD 2]** In Climate Zones 14 and 16, a Class I or Class II vapor retarder shall be installed on the indirectly conditioned space side of all insulation in an unvented attic with air-permeable insulation, for condensation control.
5. Insulation shall be located in accordance with the following:

   5.1. Item 5.1.1, 5.1.2, 5.1.3 or 5.1.4 shall be met, depending on the air permeability of the insulation directly under the structural roof sheathing. No insulation shall be required when roof tiles, wood shingles or wood shakes, or any other roofing system using battens and no continuous underlayment is installed. A continuous underlayment shall be considered to exist if sheathing, roofing paper or any continuous layer having a perm rate of no more than one perm under the dry cup method is present.

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   Item 5.1.1. In addition to the air-permeable insulation installed directly below the structural sheathing, rigid board or sheet insulation shall be installed directly above the structural roof sheathing in accordance with the R-values in Table 1202.3 for condensation control.

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   5.1.4. Alternatively, sufficient rigid board or sheet insulation shall be installed directly above the structural roof sheathing to maintain the monthly average temperature of the underside of the structural roof sheathing above 45°F (7°C). For calculation purposes, an interior air temperature of 68°F (20°C) is assumed and the exterior air temperature is assumed to be the monthly average outside air temperature of the three coldest months.

   5.2. Where preformed insulation board is used as the air-impermeable insulation layer, it shall be sealed at the perimeter of each individual sheet interior surface to form a continuous layer.

Exceptions:

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TABLE 1202.3
INSULATION FOR CONDENSATION CONTROL

CLIMATE ZONE	MINIMUM *R*-VALUE OF AIR-IMPERMEABLE INSULATION[a]
2B and 3B tile roof only	0 (none required)
1, 2A, 2B, 3A, 3B, 3C	R-5
4C	R-10
4A, 4B	R-15
5	R-20
6	R-25
7	R-30
8	R-35

a. Contributes to, but does not supersede, thermal resistance requirements for attic and roof assemblies in the *California Energy Code*.

NOTE: PER CBC 1015.6, - EXCEPTION, GUARDRAILS ARE NOT REQUIRED WHERE PERMANENT FALL RESTRAINT ANCHORAGE DEVICES ARE AFFIXED & SHALL BE PLACED NOT MORE THAN 10FT FROM THE ROOF EDGE.

* IF ROOF MOUNTED UNIT IS APPLIED

PV AREA FOR FIRE ACCESS REQ'T (PER IR 16-8)

3.2.1 General Requirements: A PV System shall be typically considered equipment. There is typically not an occupancy group classification, building area limitation, or type of construction assignment to a PV system.
a) PV equipment supported by non-combustible framing installed in locations dedicated for building frontage used for area increases per California Building Code (CBC), Chapter 5, Section 506, shall be limited in size and may be allowed on a case by case basis. Maximum area that may be allowed for such systems shall not exceed 1/3 of the horizontal projected area of each frontage.
b) Open sided PV systems and framing that are non-combustible and without use underneath may be considered equipment and may be placed next to DSA IR 16-8 Solar Photovoltaic and Thermal (updated 01-25-17) Systems Review and Approval Requirements Page 11 of 19 property lines. Signs may be required on or near the system prohibiting any use or storage underneath the equipment.
c) Combustible PV systems and framing and those with use underneath such as for assembly or parking, may need to comply with 2022 CBC, Table 602. These structures may include those that do and that do not have a roof underneath the PV system.
d) PV systems (both the frame and the array) shall not be placed in fire department access roads. (Per Title 24 CCR, Division 1, Chapter 1, Section 3.05 and 2022 CFC Chapter 5, Section 503.)
e) Access to a public way or safe dispersal area shall not be obstructed by the system or system framing. (CBC 1027.6 and 442.3)
f) PV systems that cover a lunch area or similar (occupant load less than 50), that are not used for assembly purposes shall be considered equipment. Playgrounds would also fall into this category regardless of total occupant load.
g) Any PV system that is installed above an assembly use (i.e. Group A-3 or A-5 occupancy classification) shall be considered an open sided building structure and all or portions of CBC provisions apply on a case by case basis. Such areas might include an outdoor amphitheater, bleacher or grandstand seating with concentrated occupant loads and heavy use.
h) Fire Department concern for the installation of roof mounted PV systems will be addressed by DSA review to the State Fire Marshal Solar Photovoltaic Installation Guideline available at: http://osfm.fire.ca.gov/pdf/reports/solarphotovoltaicguideline.pdf
i) When a PV system, without riser framework, is installed directly on a rated roof assembly with a required classification greater than "Class C" found in CBC, Chapter 15, and f

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROFESSIONAL STAMP

02/16/24

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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

ROOF PLAN DUAL SLOPE (EPDM)

PROJECT NUMBER

22088

DRAWN BY

rMc/SC

CHECKED BY

RH/RT

DATE

SHEET NO.

A4.2.2

SHEET OF

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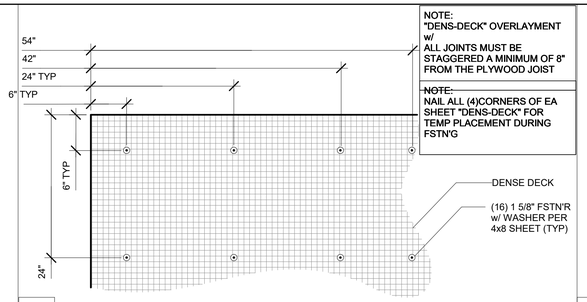
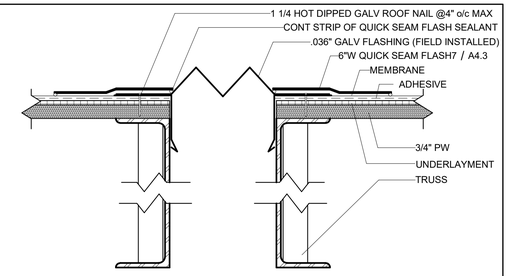


10 ***4x8 Dense Deck Fastening*** **(WHERE OCCURS)**



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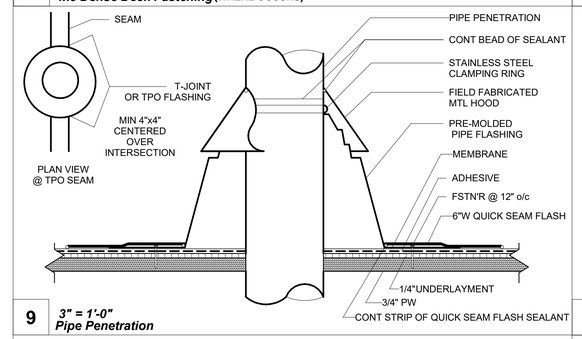

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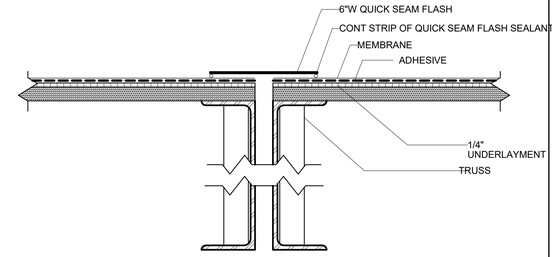

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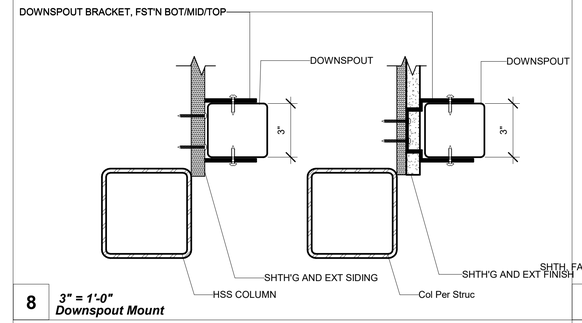
Roof @ Mateline



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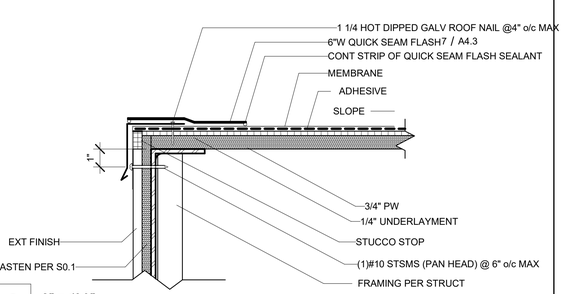

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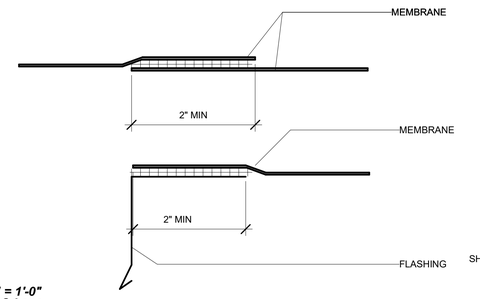
Roof @ Endwall (High End)



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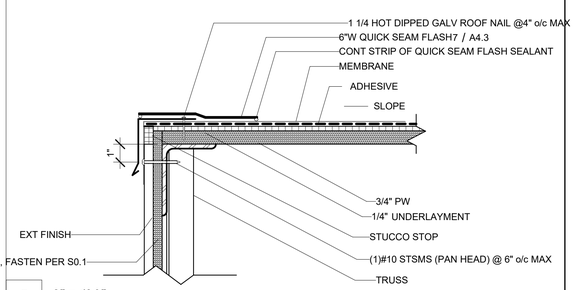
TPO Laps



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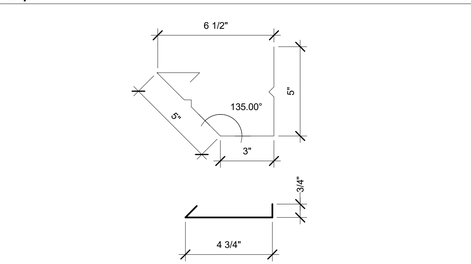
Roof @ Sidwall



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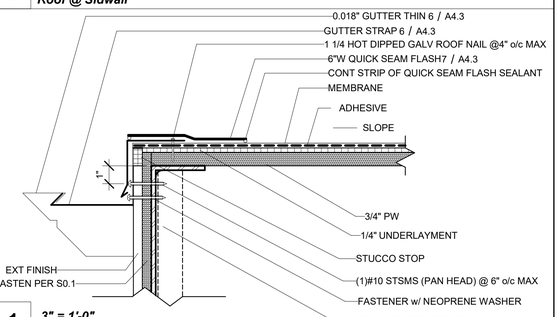
Gutter and Strap



1 ***3" = 1'-0"***
Roof @ Endwall (Low End)

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RST#22088
02/16/24

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PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

ROOF DETAILS (EPDM)

PROJECT NUMBER

22088

DRAWN BY

rMc/SC

CHECKED BY

RH/RT

DATE

SHEET NO.

A4.3

SHEET OF

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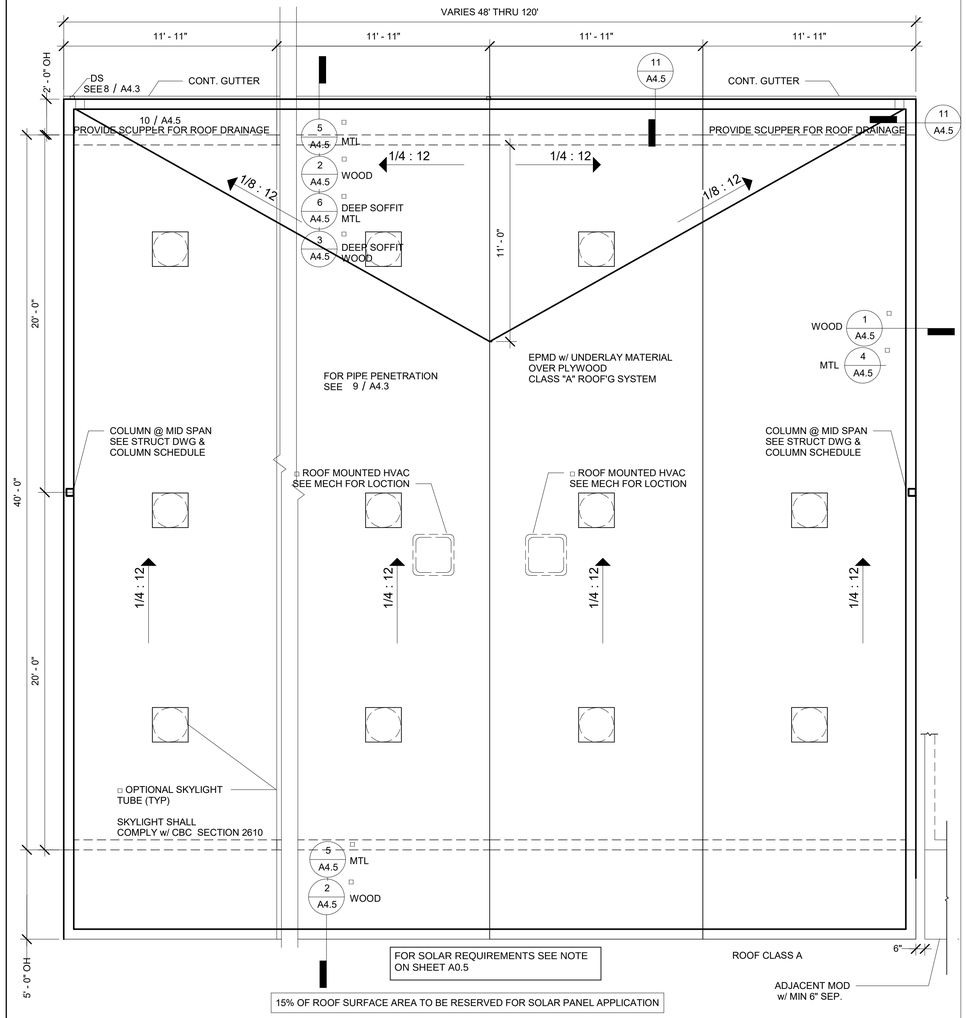

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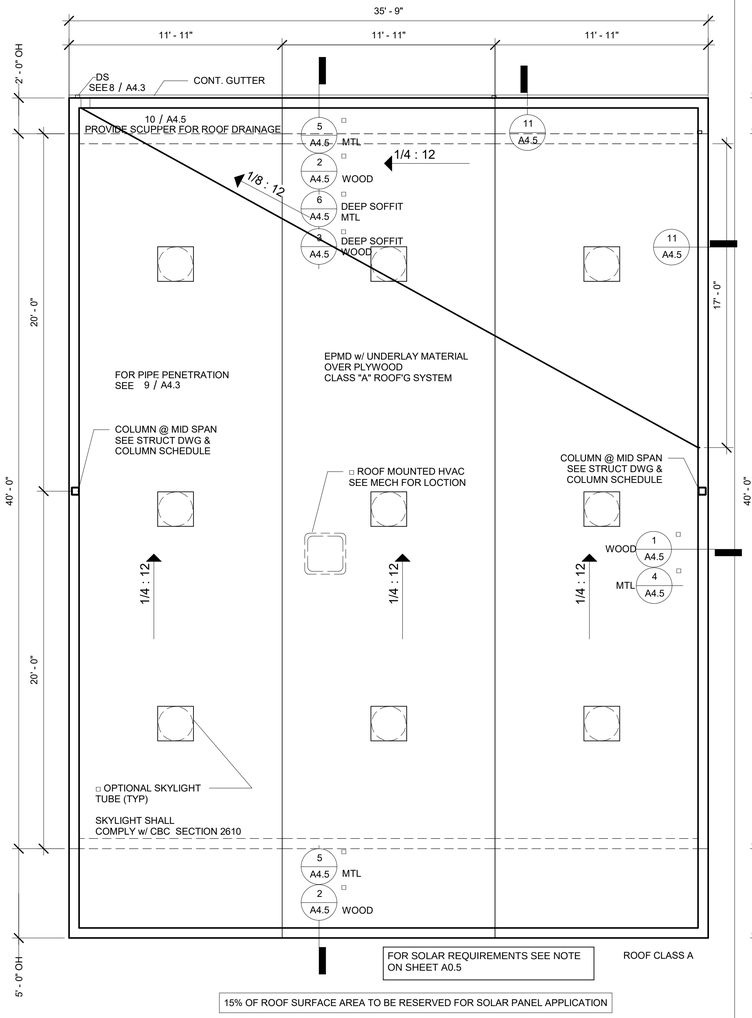
48x40 thru 120x40 Roof Plan w/ Parapet (EPDM Mono)



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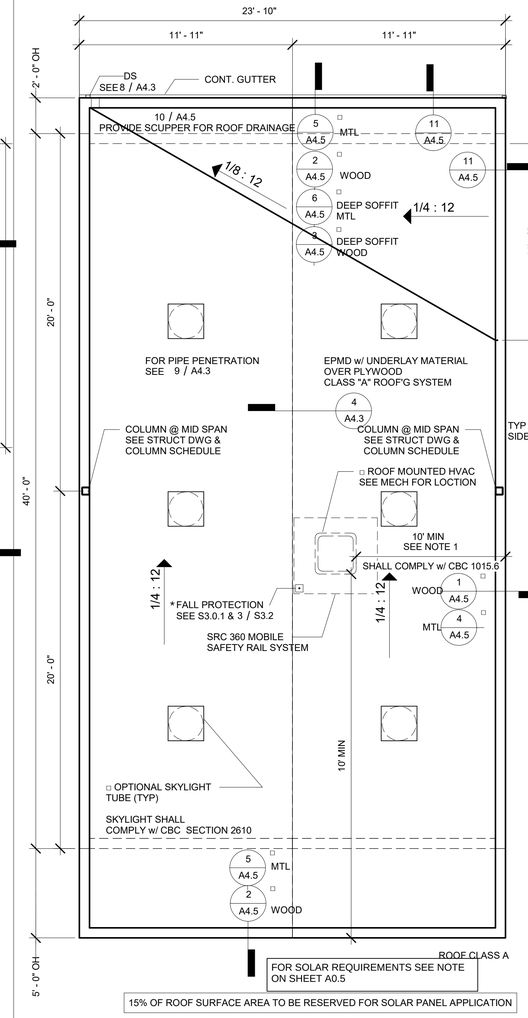

1 *1/4" = 1'-0"*
24x40 Roof Plan w/ Parapet (EPDM Mono)

Note: For conditioned structures, roofing must be installed IAW 2022 CBC SECTION 1202.3

1202.3 Unvented Attic and Unvented Enclosed Rafter Assemblies

Unvented attics and unvented enclosed roof framing assemblies created by ceilings applied directly to the underside of the roof framing members/rafters and the structural roof sheathing at the top of the roof framing members shall be permitted where all of the following conditions are met:

1. The unvented attic space is completely within the building thermal envelope.
2. No interior Class I vapor retarders are installed on the ceiling side (attic floor) of the unvented attic assembly or on the ceiling side of the unvented enclosed roof framing assembly.
3. Where wood shingles or shakes are used, not less than a 1/4-inch (6.4 mm) vented airspace separates the shingles or shakes and the roofing underlayment above the structural sheathing.
4. In Climate Zones 14 and 16, any air-impermeable insulation shall be a Class II vapor retarder or shall have a Class II vapor retarder coating or covering in direct contact with the underside of the insulation.

   See the California Energy Code, Figure 100.1-A — California Climate Zones.

   4.1. **[HCD 1 & HCD 2]** In Climate Zones 14 and 16, a Class I or Class II vapor retarder shall be installed on the indirectly conditioned space side of all insulation in an unvented attic with air-permeable insulation, for condensation control.
5. Insulation shall be located in accordance with the following:

   5.1. Item 5.1.1, 5.1.2, 5.1.3 or 5.1.4 shall be met, depending on the air permeability of the insulation directly under the structural roof sheathing. No insulation shall be required when roof tiles, wood shingles or wood shakes, or any other roofing system using battens and no continuous underlayment is installed. A continuous underlayment shall be considered to exist if sheathing, roofing paper or any continuous layer having a perm rate of no more than one perm under the dry cup method is present.

   5.1.1. Where only air-impermeable insulation is provided, it shall be applied in direct contact with the underside of the structural roof sheathing.

   5.1.2. Where air-permeable insulation is provided inside the building thermal envelope, it shall be installed in accordance with Item 5.1.1. In addition to the air-permeable insulation installed directly below the structural sheathing, rigid board or sheet insulation shall be installed directly above the structural roof sheathing in accordance with the R-values in Table 1202.3 for condensation control.

   5.1.3. Where both air-impermeable and air-permeable insulation are provided, the air-impermeable insulation shall be applied in direct contact with the underside of the structural roof sheathing and shall be in accordance with the R-values in Table 1202.3 for condensation control. The air-permeable insulation shall be installed directly under the air-impermeable insulation.

   5.1.4. Alternatively, sufficient rigid board or sheet insulation shall be installed directly above the structural roof sheathing to maintain the monthly average temperature of the underside of the structural roof sheathing above 45°F (7°C). For calculation purposes, an interior air temperature of 68°F (20°C) is assumed and the exterior air temperature is assumed to be the monthly average outside air temperature of the three coldest months.

   5.2. Where preformed insulation board is used as the air-impermeable insulation layer, it shall be sealed at the perimeter of each individual sheet interior surface to form a continuous layer.

Exceptions:

1. Section 1202.3 does not apply to special use structures or enclosures such as swimming pool enclosures, data processing centers, hospitals or art galleries.
2. Section 1202.3 does not apply to enclosures in Climate Zones 14 and 16 that are humidified beyond 35 percent during the three coldest months.

TABLE 1202.3
INSULATION FOR CONDENSATION CONTROL

CLIMATE ZONE	MINIMUM *R*-VALUE OF AIR-IMPERMEABLE INSULATION[a]
2B and 3B tile roof only	0 (none required)
1, 2A, 2B, 3A, 3B, 3C	R-5
4C	R-10
4A, 4B	R-15
5	R-20
6	R-25
7	R-30
8	R-35

a. Contributes to, but does not supersede, thermal resistance requirements for attic and roof assemblies in the *California Energy Code*.

NOTE: PER CBC 1015.6, - EXCEPTION, GUARDRAILS ARE NOT REQUIRED WHERE PERMANENT FALL RESTRAINT ANCHORAGE DEVICES ARE AFFIXED & SHALL BE PLACED NOT MORE THAN 10FT FROM THE ROOF EDGE.

ROOFS SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 7A AND CHAPTER 15. ROOFS SHALL HAVE A ROOFING ASSEMBLY INSTALLED IN ACCORDANCE WITH ITS LISTING AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

*IF ROOF MOUNTED UNIT IS APPLIED

PV AREA FOR FIRE ACCESS REQ'T (PER IR 16-8)

3.2.1 General Requirements: A PV System shall be typically considered equipment. There is typically not an occupancy group classification, building area limitation, or type of construction assignment to a PV system.
a) PV equipment supported by non-combustible framing installed in locations dedicated for building frontage used for area increases per California Building Code (CBC), Chapter 5, Section 506, shall be limited in size and may be allowed on a case by case basis. Maximum area that may be allowed for such systems shall not exceed 1/3 of the horizontal projected area of each frontage.
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h) Fire Department concern for the installation of roof mounted PV systems will be addressed by DSA review to the State Fire Marshal Solar Photovoltaic Installation Guideline available at: http://osfm.fire.ca.gov/pdf/reports/solarphotovoltaicguideline.pdf
i) When a PV system, without riser framework, is installed directly on a rated roof assembly with a required classification greater than "Class C" found in CBC, Chapter 15, and f

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REGISTERED PROFESSIONAL ENGINEER · MANNY D. FRANCISCO · No. 23380 · 03/31/24 · CIVIL · STRUCTURAL · STATE OF CALIFORNIA
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Code: 2022 CBC

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SHEET TITLE
ROOF PLAN w/ PARAPET MONO SLOPE (EPDM)

PROJECT NUMBER
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DRAWN BY
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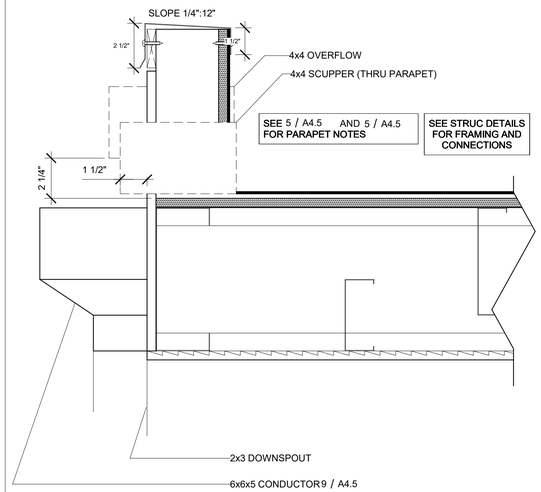

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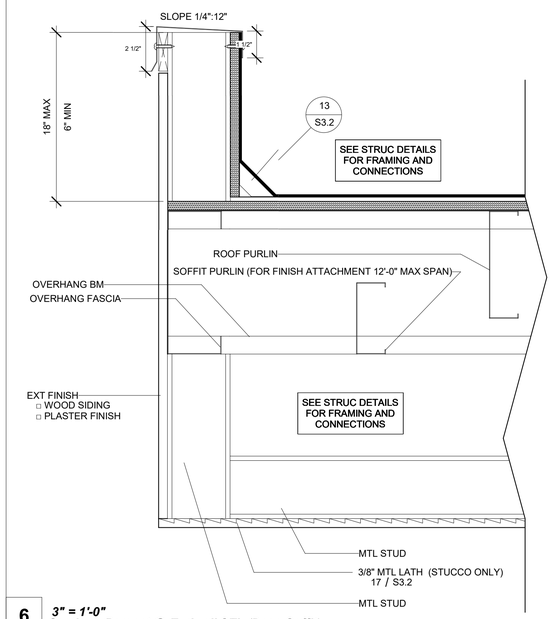

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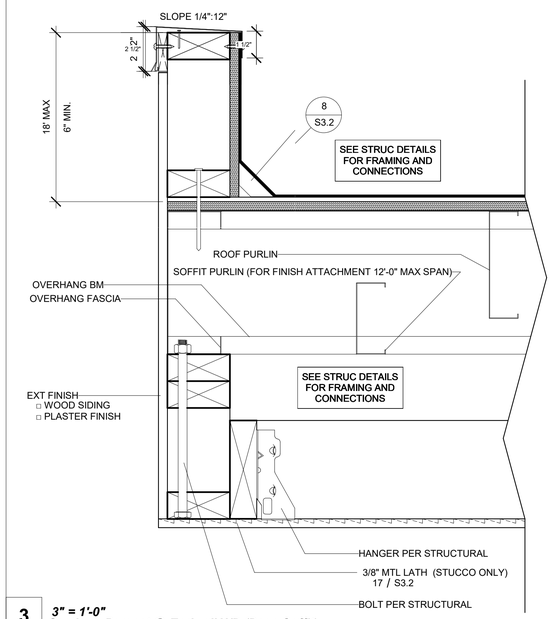

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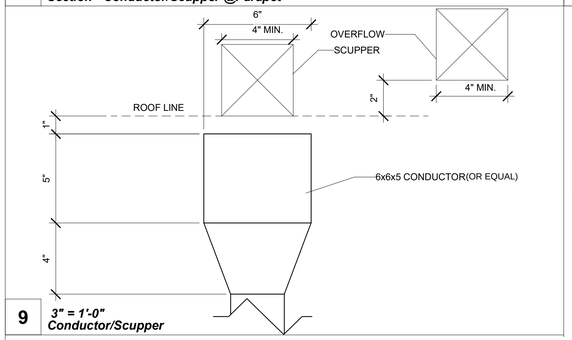
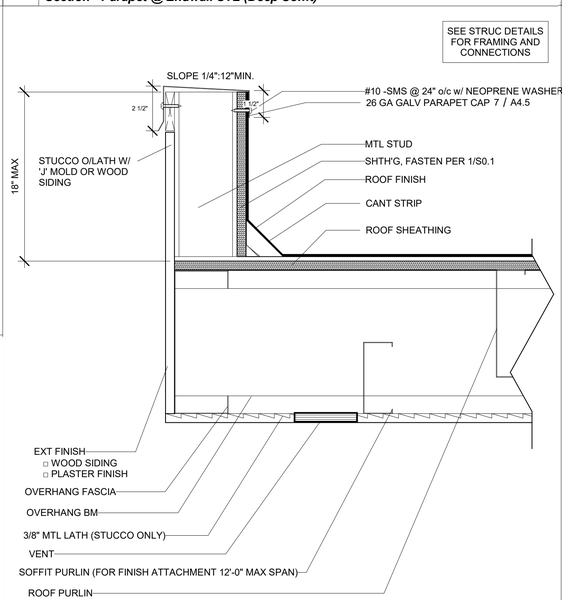


9 *3" = 1'-0"*
Conductor/Scupper



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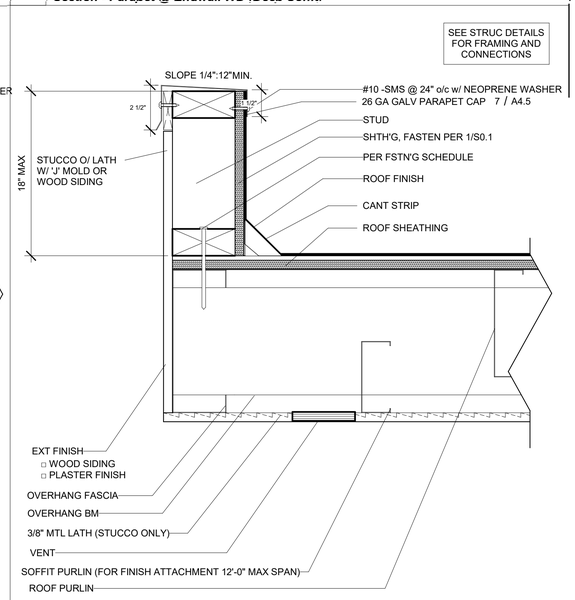

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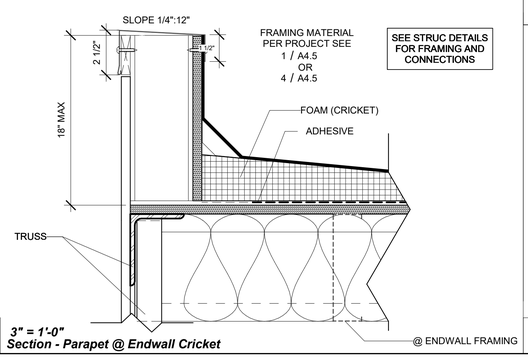

11 *3" = 1'-0"*
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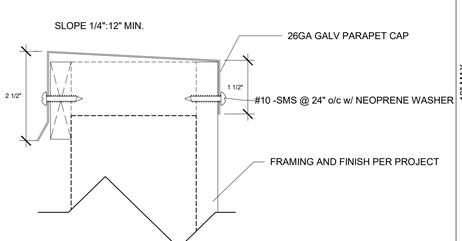

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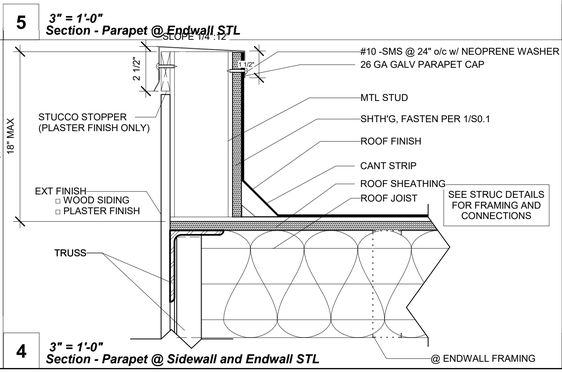

4 *3" = 1'-0"*
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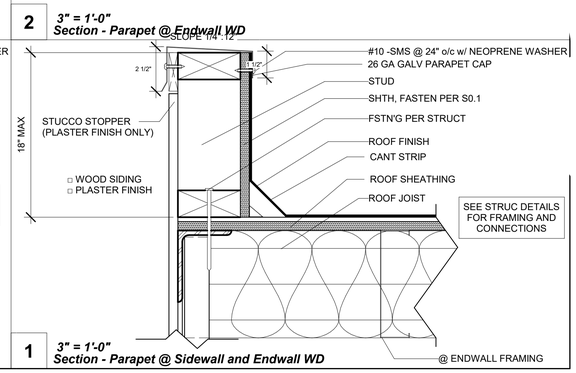

1 *3" = 1'-0"*
Section - Parapet @ Sidewall and Endwall WD

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11590 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

RECORDED PROFESSIONAL ENGINEER
MANNY D. FRANCISCO
No. S-3380
03/31/24
STRUCTURAL
STATE OF CALIFORNIA
RST#22088

02/16/24

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CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

ARCHITECTURAL DETAILS (PARAPET)

PROJECT NUMBER

22088

DRAWN BY

rMc/SC

CHECKED BY

RH/RT

DATE

SHEET NO.

A4.5

SHEET OF

6/15/2021 11:51:31 PM C:\Users\User\Documents\20093 - Aries, 24x40 PC - MainFile - Low Seismic_6_7_CES4R24D63.rvt

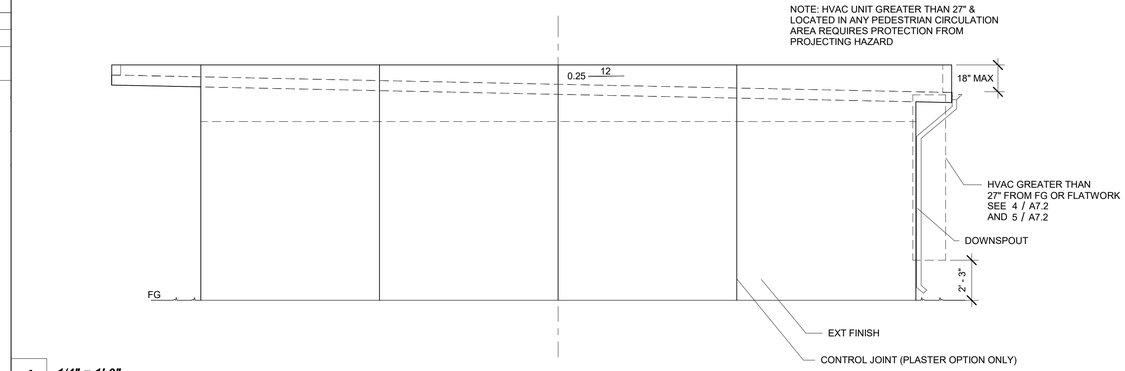
Ext. Finish Schedule			
	Finishes	Sheet	Notes
☐	SIDING OVER WD STUDS	A2.1	
☐	PLASTER OVER 1/2" OSB OR 1/2" CDX PLY w/ WD STUDS	A2.2	

9 *1/4" = 1'-0"*
Ext. Finish Scedule

Fire Rating Schedule			
	Rating	Sheet	Notes
☐	1 HOUR - SIDING OVER WD STUDS	A2.5	
☐	1 HOUR - PLASTER OVER 1/2" OSB OR 1/2" CDX PLY w/ WD STUDS	A2.6	

SEE A3.0 FOR ADDITIONAL FIRE ASSEMBLY NOTES AND DETAILS

10 *1/4" = 1'-0"*
Fire Rating Scedule



4 *1/4" = 1'-0"*
Right Elevation (Mono w/ Parapet)

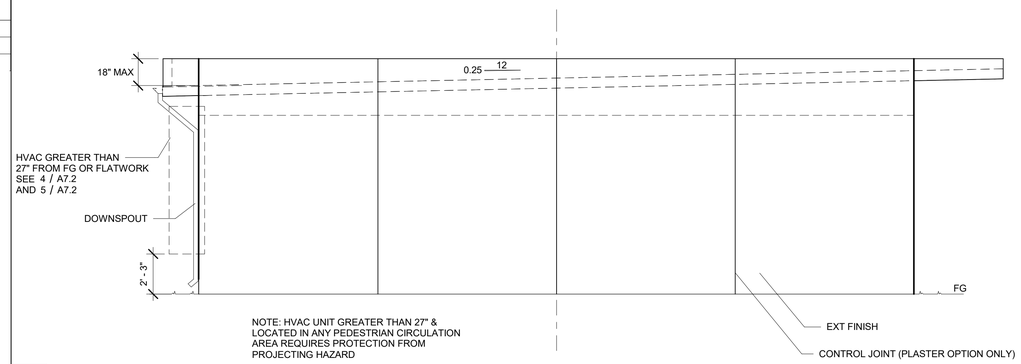
SEE A0.1 FOR GENERAL NOTES

7 *3" = 1'-0"*
Notes A5.0

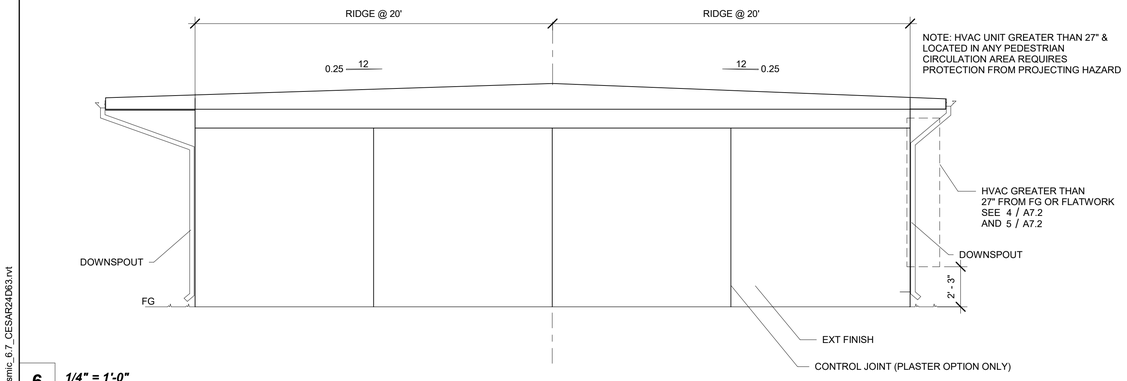
Wall Schedule			
	Stud Size	Sheet	Notes
☐	Wood Wall Stud	S4.5	

FOR WUI DETAILS SEE SHEETS: A2.1(B)
A2.3(B)
A2.5(B)
A2.7(B)

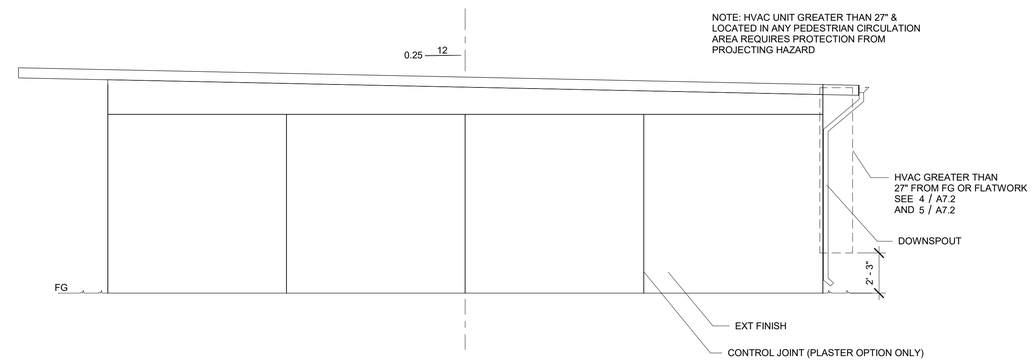
8 *1/4" = 1'-0"*
Wall Schedule



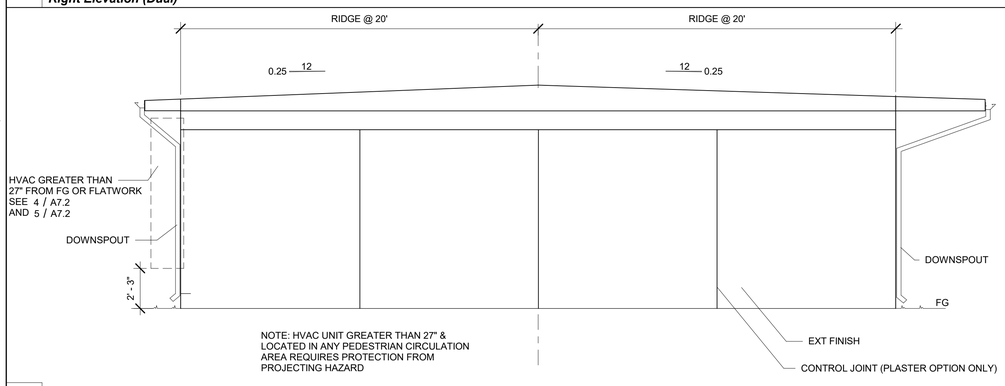
3 *1/4" = 1'-0"*
Left Elevation (Mono w/ Parapet)



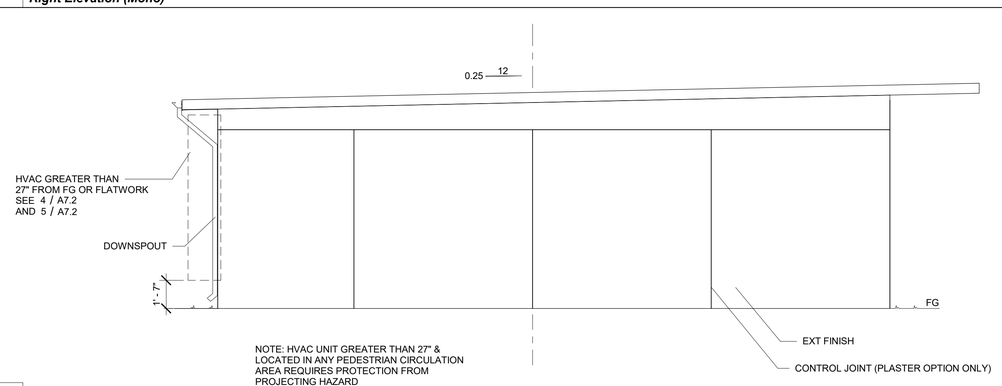
6 *1/4" = 1'-0"*
Right Elevation (Dual)



2 *1/4" = 1'-0"*
Right Elevation (Mono)



5 *1/4" = 1'-0"*
Left Elevation (Dual)



1 *1/4" = 1'-0"*
Left Elevation (Mono)

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
11590 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
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PROFESSIONAL STAMP

02/16/24

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PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

SIDEWALL ELEVATION

PROJECT NUMBER

22088

DRAWN BY

rMc/SC

CHECKED BY

RH/RT

DATE

SHEET NO.

A5.0

SHEET OF

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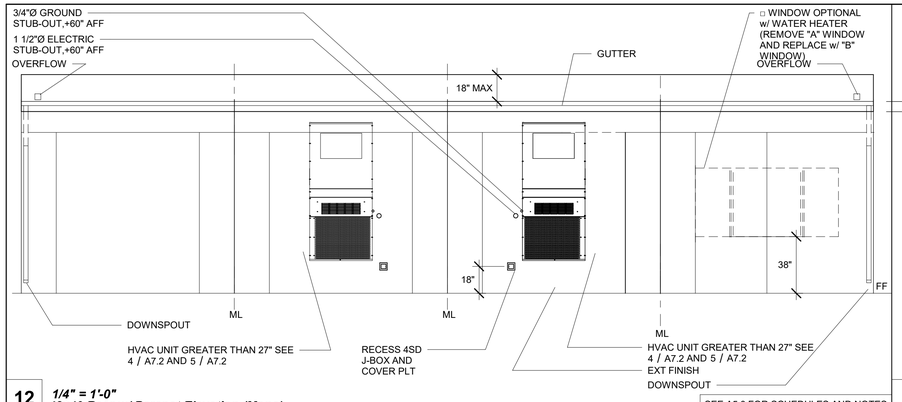
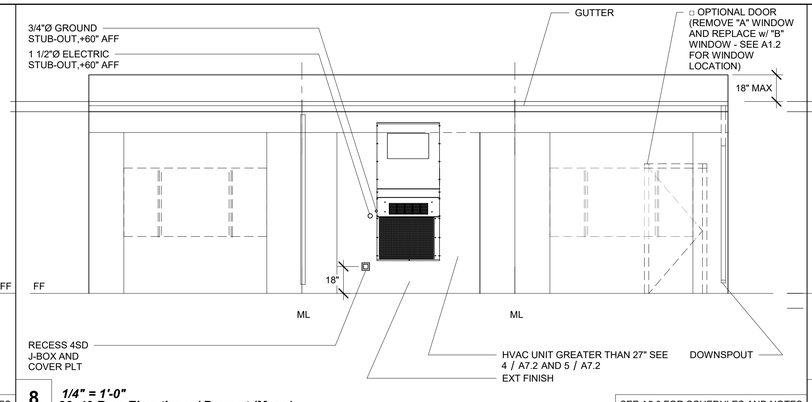


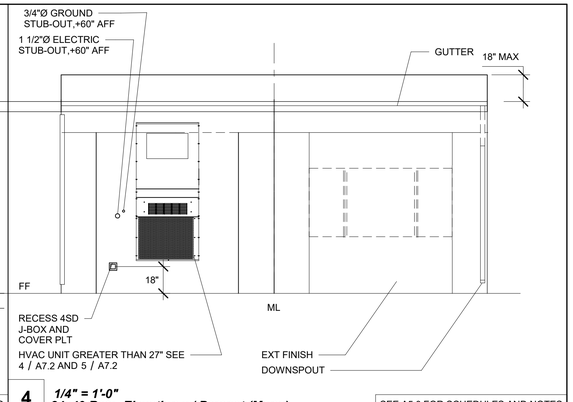
12 *1/4" = 1'-0"*
48x40 Rear w/ Parapet Elevation (Mono)

SEE A5.0 FOR SCHEDULES AND NOTES



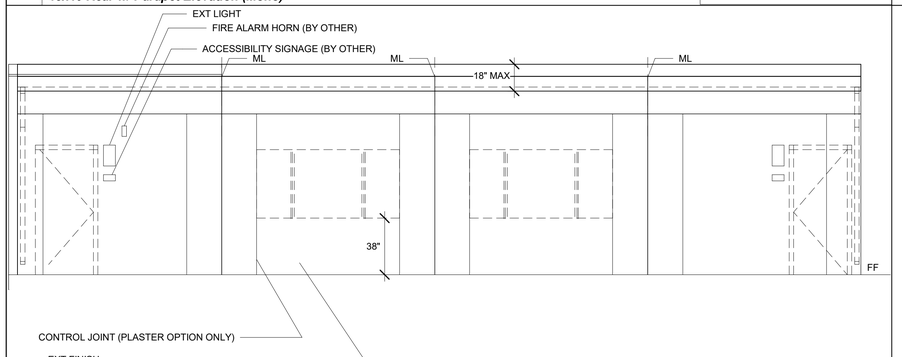
8 *1/4" = 1'-0"*
36x40 Rear Elevation w/ Parapet (Mono)

SEE A5.0 FOR SCHEDULES AND NOTES



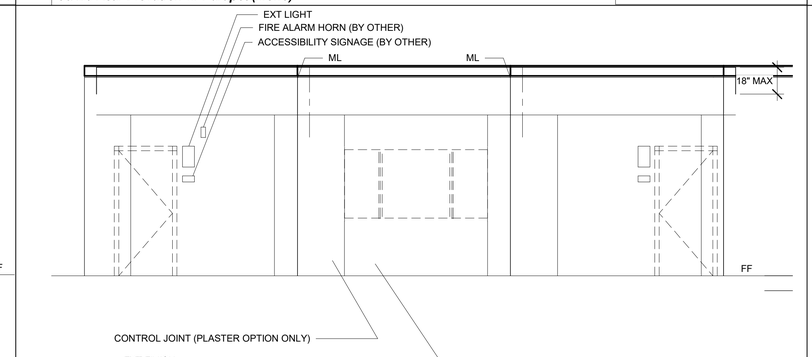
4 *1/4" = 1'-0"*
24x40 Rear Elevation w/ Parapet (Mono)

SEE A5.0 FOR SCHEDULES AND NOTES



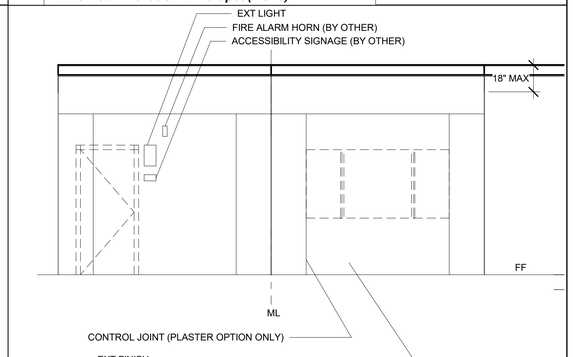
11 *1/4" = 1'-0"*
48x40 Front w/ Parapet Elevation (Mono)

SEE A5.0 FOR SCHEDULES AND NOTES



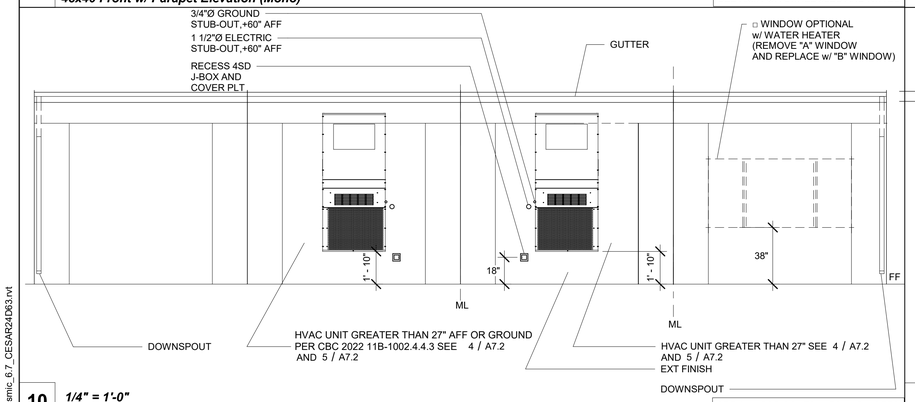
7 *1/4" = 1'-0"*
36x40 Front Elevation w/ Parapet (Mono)

SEE A5.0 FOR SCHEDULES AND NOTES



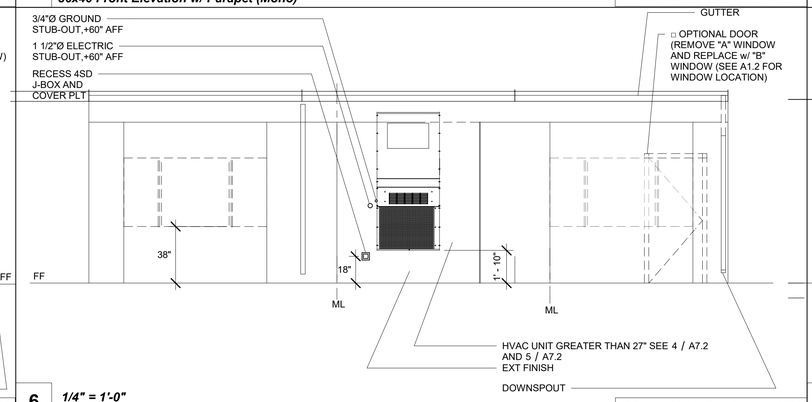
3 *1/4" = 1'-0"*
24x40 Front Elevation w/ Parapet (Mono)

SEE A5.0 FOR SCHEDULES AND NOTES



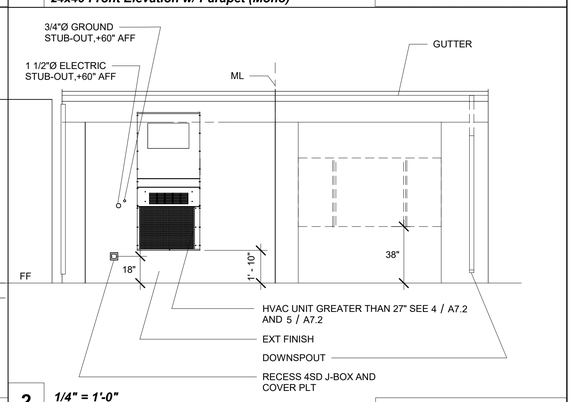
10 *1/4" = 1'-0"*
48x40 Rear Elevation (Dual/Mono)

SEE A5.0 FOR SCHEDULES AND NOTES



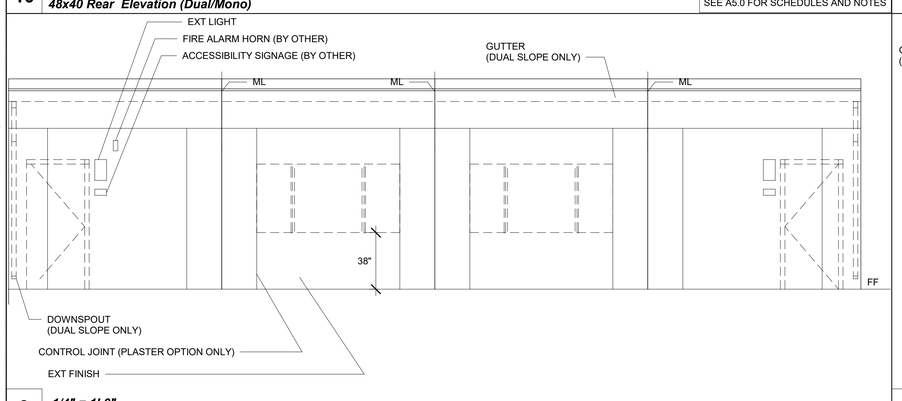
6 *1/4" = 1'-0"*
36x40 Rear Elevation (Dual/Mono)

SEE A5.0 FOR SCHEDULES AND NOTES



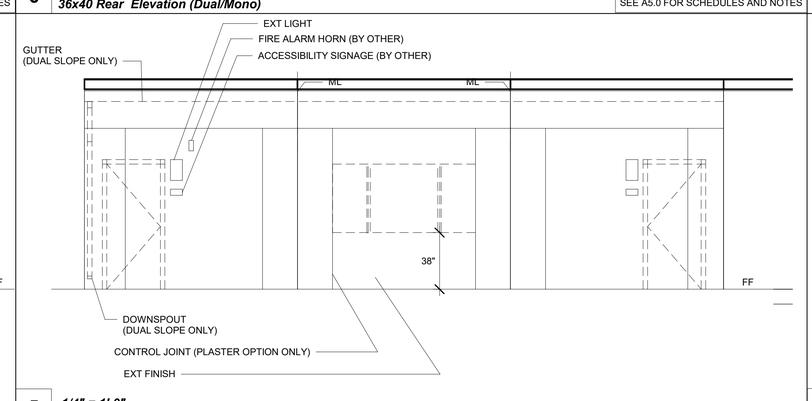
2 *1/4" = 1'-0"*
24x40 Rear Elevation (Dual/Mono)

SEE A5.0 FOR SCHEDULES AND NOTES



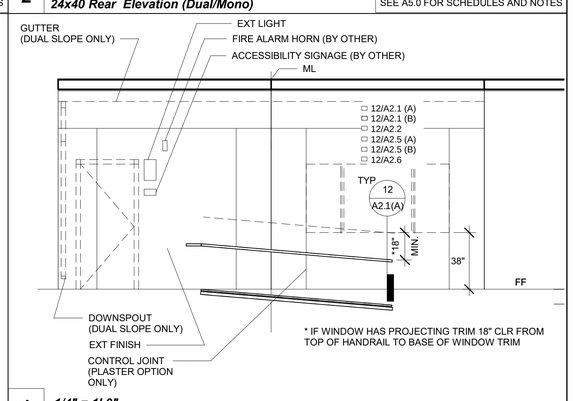
9 *1/4" = 1'-0"*
48x40 Front Elevation (Dual/Mono)

SEE A5.0 FOR SCHEDULES AND NOTES



5 *1/4" = 1'-0"*
36x40 Front Elevation (Dual/Mono)

SEE A5.0 FOR SCHEDULES AND NOTES



1 *1/4" = 1'-0"*
24x40 Front Elevation (Dual/Mono)

SEE A5.0 FOR SCHEDULES AND NOTES

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
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SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER JAIANT D. FRANCHI No. 63380 03/31/24 CIVIL STRUCTURAL STATE OF CALIFORNIA

RST#22088

02/16/24

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APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

ENDWALL ELEVATIONS

PROJECT NUMBER

22088

DRAWN BY

rMc/SC

CHECKED BY

RH/RT

DATE

SHEET NO.

A5.1

SHEET OF

C:\Users\User\Documents\20093 - Aries, 24x40 PC - MainFile - Low Seismic_6.7_CESAR24D63.rvt

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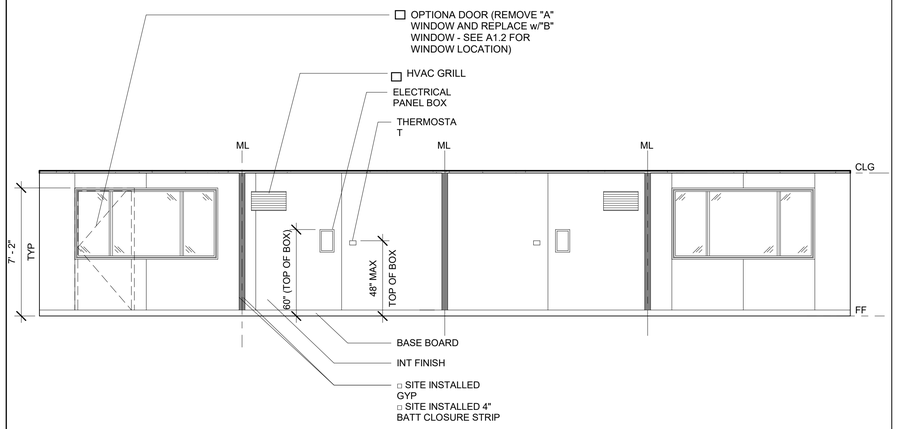
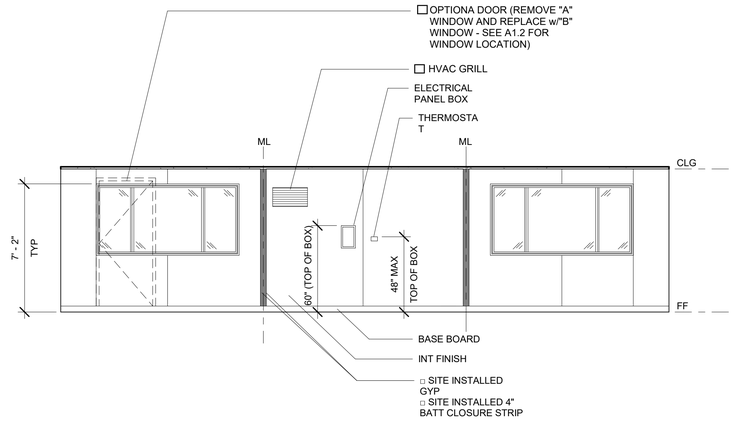
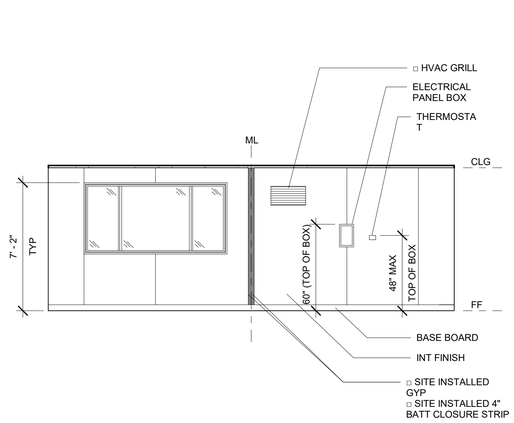


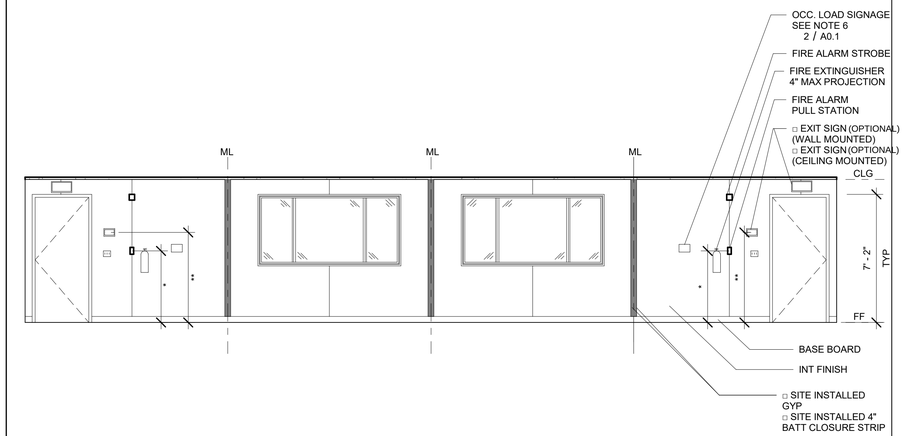
7 *1/4" = 1'-0"*
48x40 Rear Interior Elevation



6 *1/4" = 1'-0"*
36x40 Rear Interior Elevation



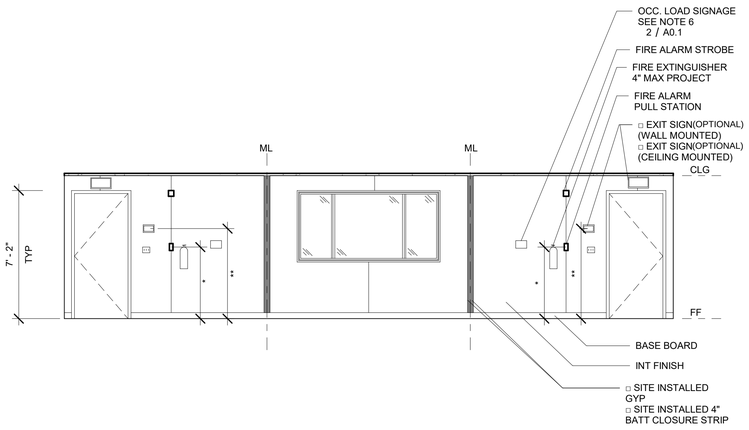
4 *1/4" = 1'-0"*
24x40 Rear Interior Elevation



* 48" MAX
TOP OF HANDLE (TYP)

** SEE 4 / A0.2 FOR MOUNTING HEIGHTS (TYP)

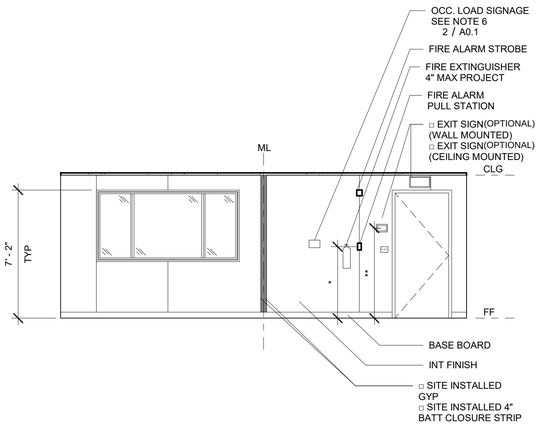
8 *1/4" = 1'-0"*
48x40 Front Interior Elevation



* 48" MAX
TOP OF HANDLE (TYP)

** SEE 4 / A0.2 FOR MOUNTING HEIGHTS (TYP)

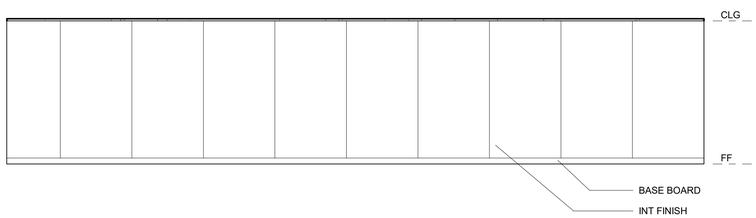
5 *1/4" = 1'-0"*
36x40 Front Interior Elevation



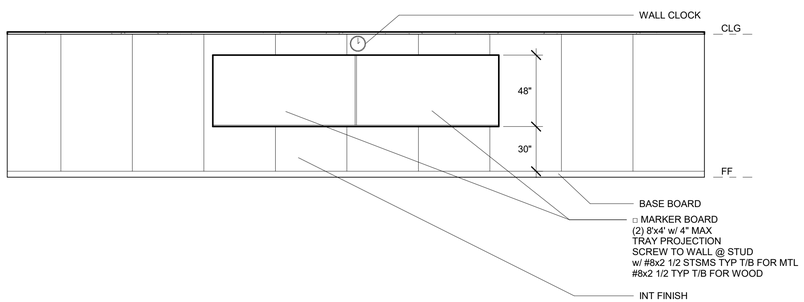
* 48" MAX
TOP OF HANDLE (TYP)

** SEE 4 / A0.2 FOR MOUNTING HEIGHTS (TYP)

3 *1/4" = 1'-0"*
24x40 Front Interior Elevation



1 *1/4" = 1'-0"*
Interior Elevation (Left)



2 *1/4" = 1'-0"*
Interior Elevation (Right)

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ✦ CONSULTING ✦ PROJECT MGT
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SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
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No. 63380
03/31/24
CIVIL
STRUCTURAL
STATE OF CALIFORNIA
RST#22088
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Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

INTERIOR ELEVATIONS

PROJECT NUMBER

22088

DRAWN BY

rMc/SC

CHECKED BY

RH/RT

DATE

SHEET NO.

A5.2

SHEET OF

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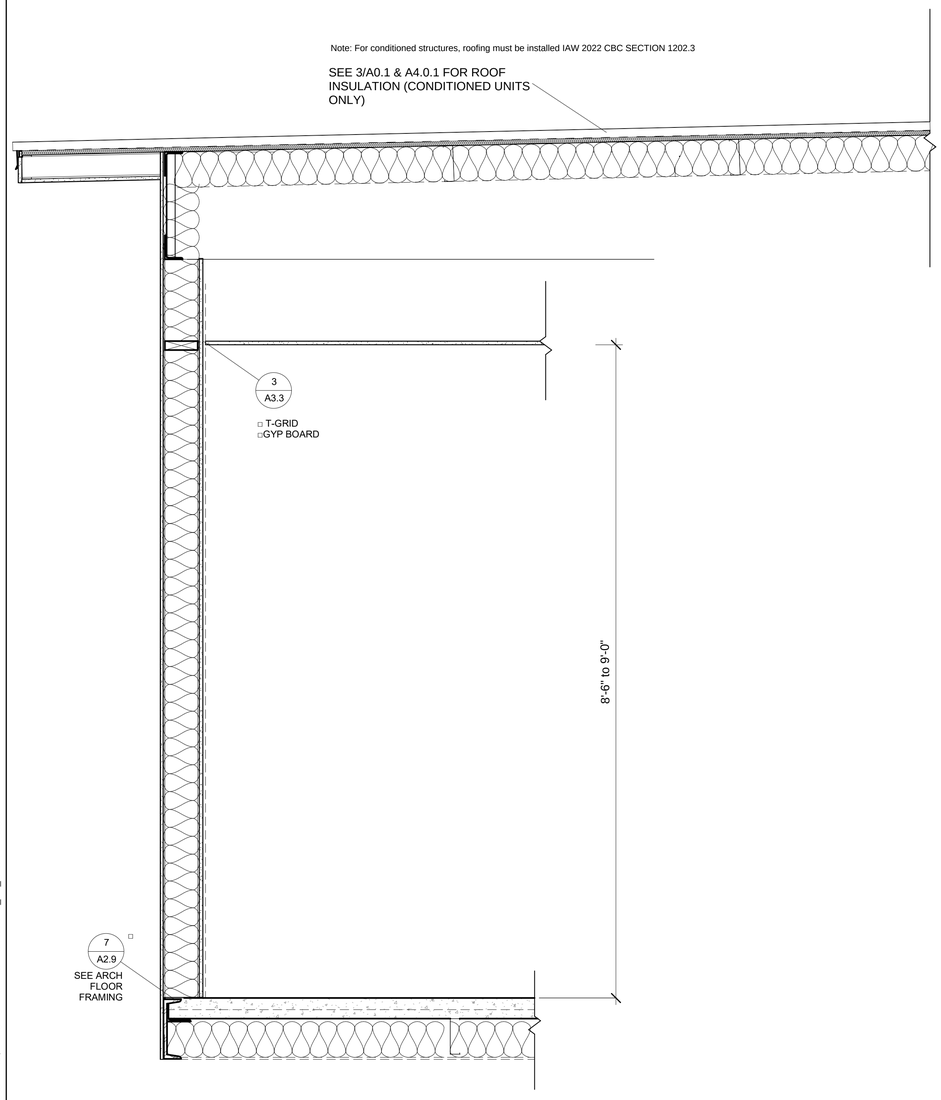

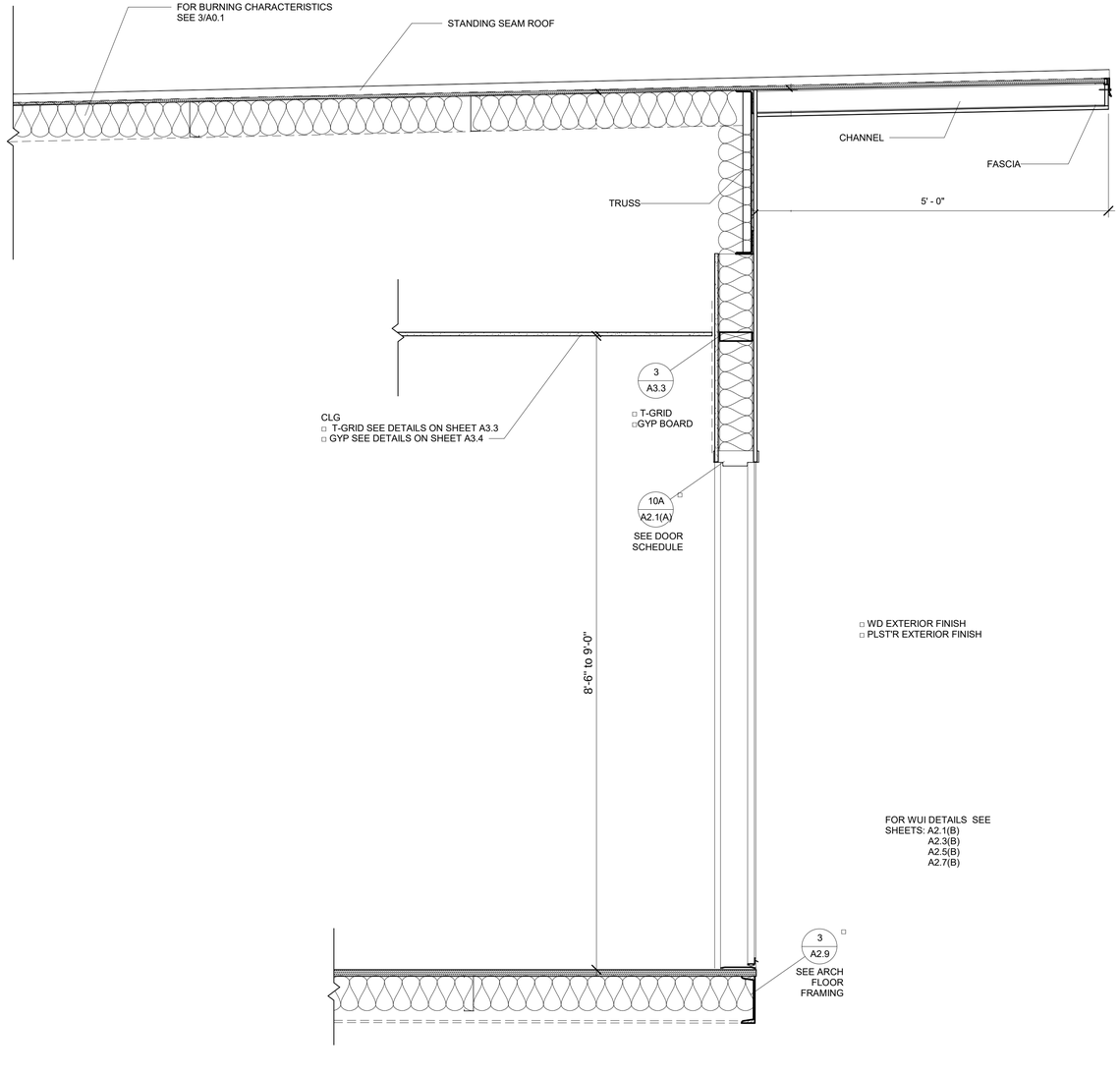

1 ***1" = 1'-0"***
Section (EPDM)2

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PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
11590 W Bernardo Court, Suite 100
San Diego, CA 92127
www.rstavares.com

PROFESSIONAL STAMP

RST#22088

02/16/24

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A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

SECTION - STANDING SEAM (MONO)

PROJECT NUMBER

22088

DRAWN BY

rMc/SC

CHECKED BY

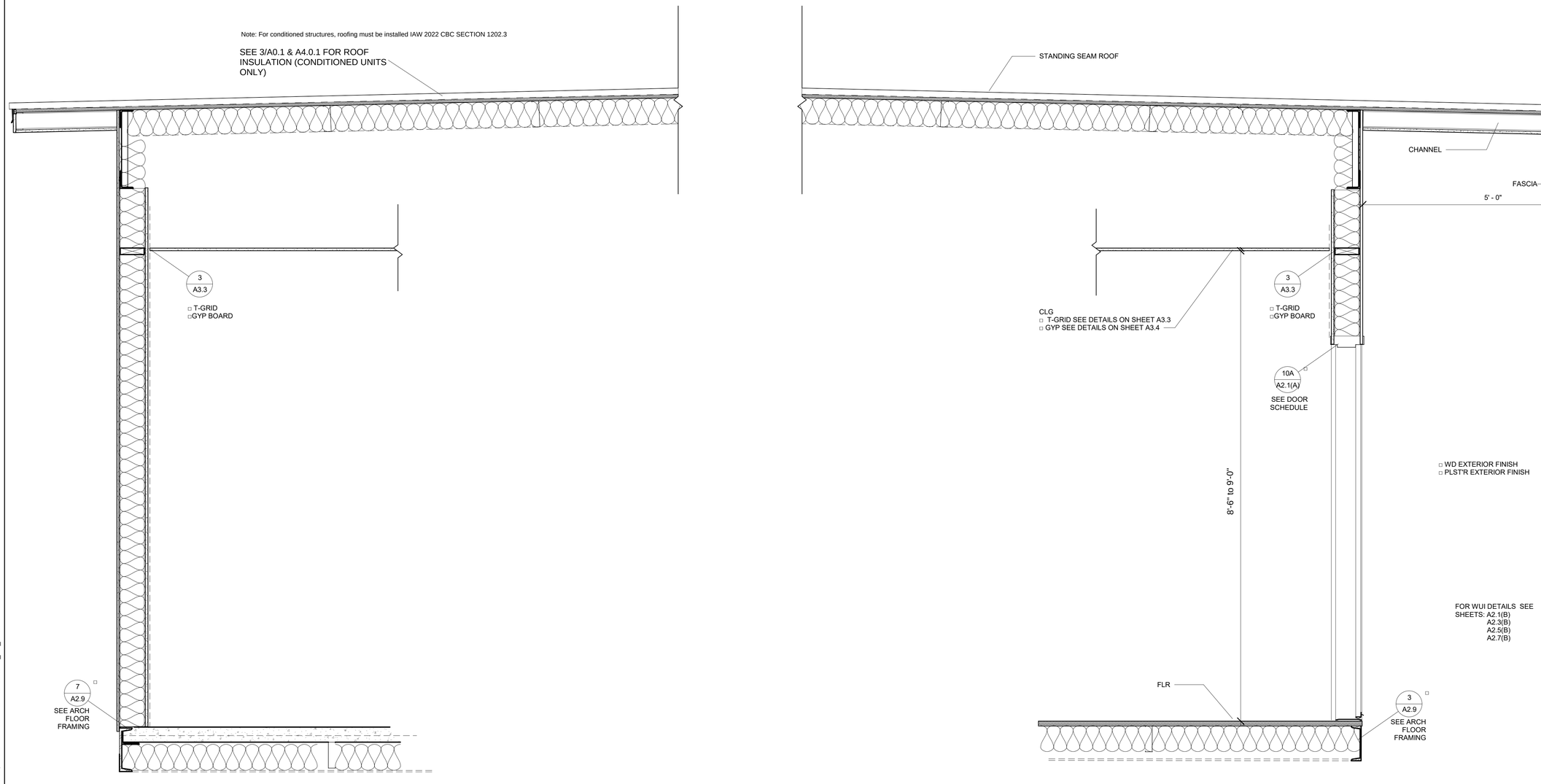
RH/RT

DATE

SHEET NO.

A6.0

SHEET OF



1 ***1" = 1'-0"***
Section (EPDM)3

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PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
11590 W Bernardo Court, Suite 100
San Diego, CA 92127
www.rstavares.com

PROFESSIONAL STAMP

02/16/24

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CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

SECTION - STANDING SEAM (DUAL)

PROJECT NUMBER

22088

DRAWN BY

rMc/SC

CHECKED BY

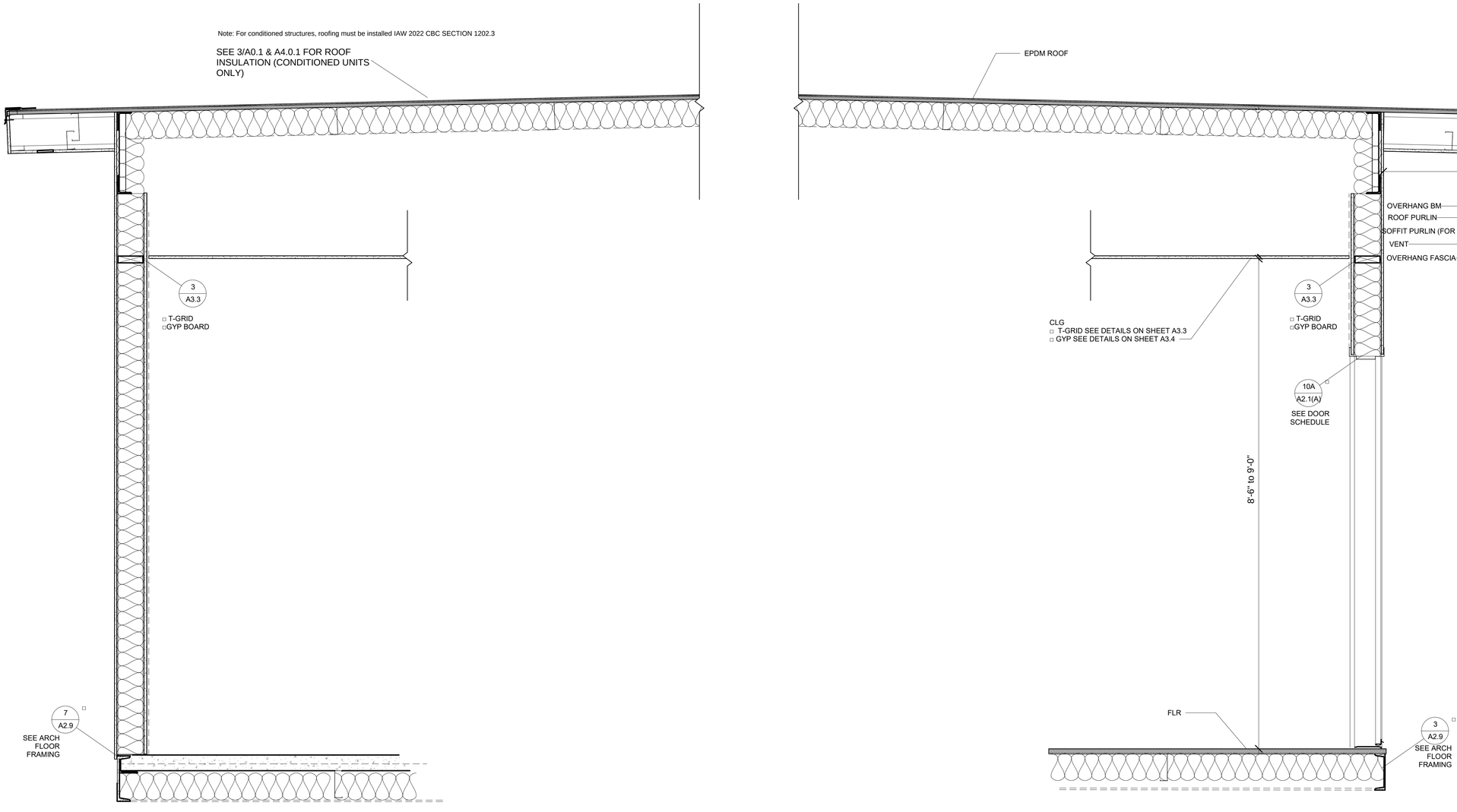
RH/RT

DATE

SHEET NO.

A6.0.1

SHEET OF



1 *1" = 1'-0"*
Section (EPDM)

6/15/2021 11:51:50 PM C:\Users\User\Documents\20093 - Aries, 24x40 PC - MainFile - Low Seismic_6.7_CESAR24D63.rvt

PROJECT SPECIFIC STATE AGENCY APPROVAL

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APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

SECTION - EPDM (DUAL)

PROJECT NUMBER 22088

DRAWN BY rMc/SC

CHECKED BY RH/RT

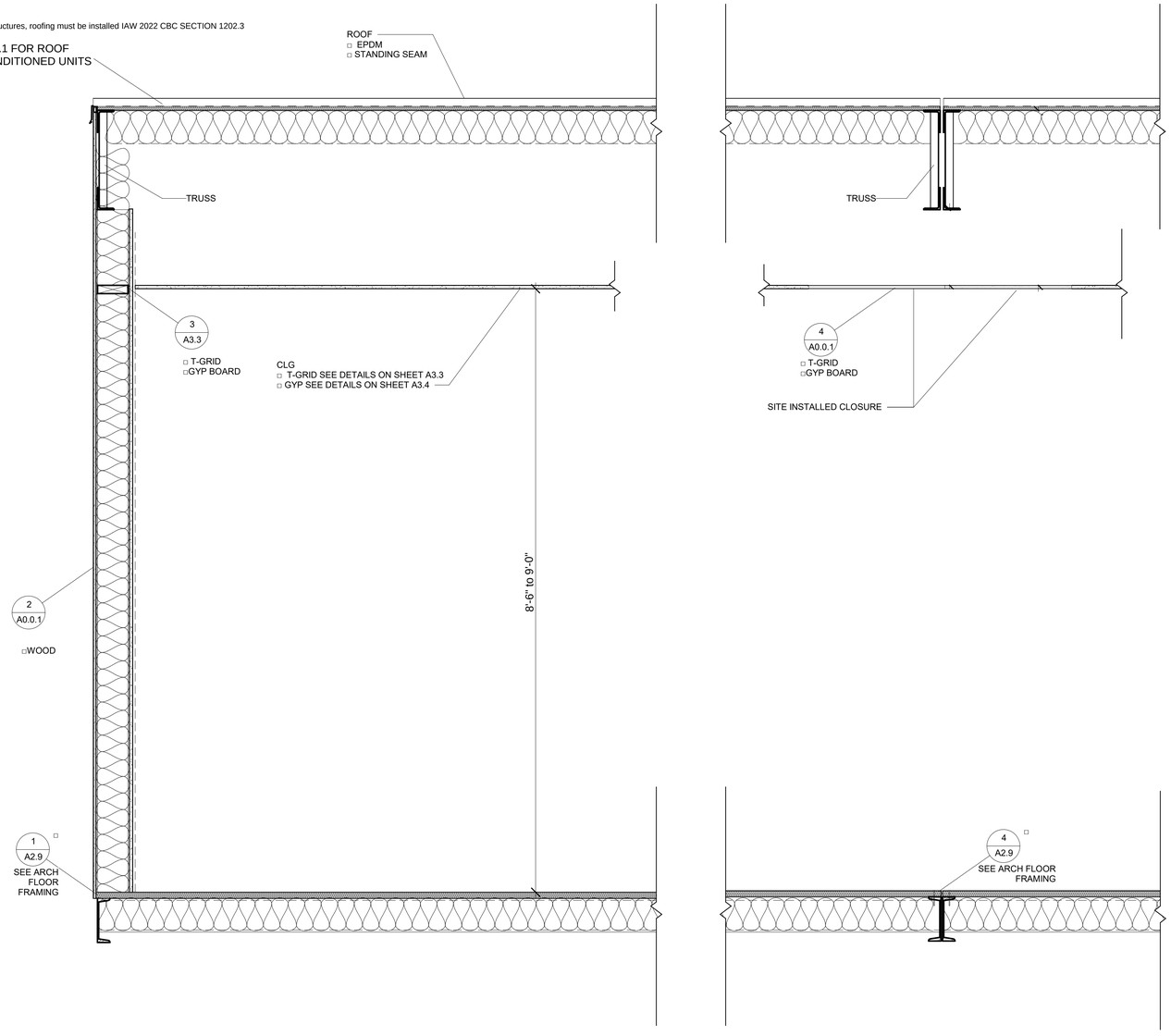
DATE

SHEET NO. A6.1

SHEET OF

Note: For conditioned structures, roofing must be installed IAW 2022 CBC SECTION 1202.3

SEE 3/A0.1 & A4.0.1 FOR ROOF INSULATION (CONDITIONED UNITS ONLY)



FOR WUI DETAILS SEE SHEETS: A2.1(B)
A2.3(B)
A2.5(B)
A2.7(B)

1 *1" = 1'-0"*
Latitudinal Section

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REGISTERED PROFESSIONAL ENGINEER JAHANY D. FRANCISCO No. C-53380 03/31/24 CIVIL STRUCTURAL STATE OF CALIFORNIA

RST#22088

02/16/24

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APP: 04-123059 PC
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SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

SECTION

PROJECT NUMBER

22088

DRAWN BY

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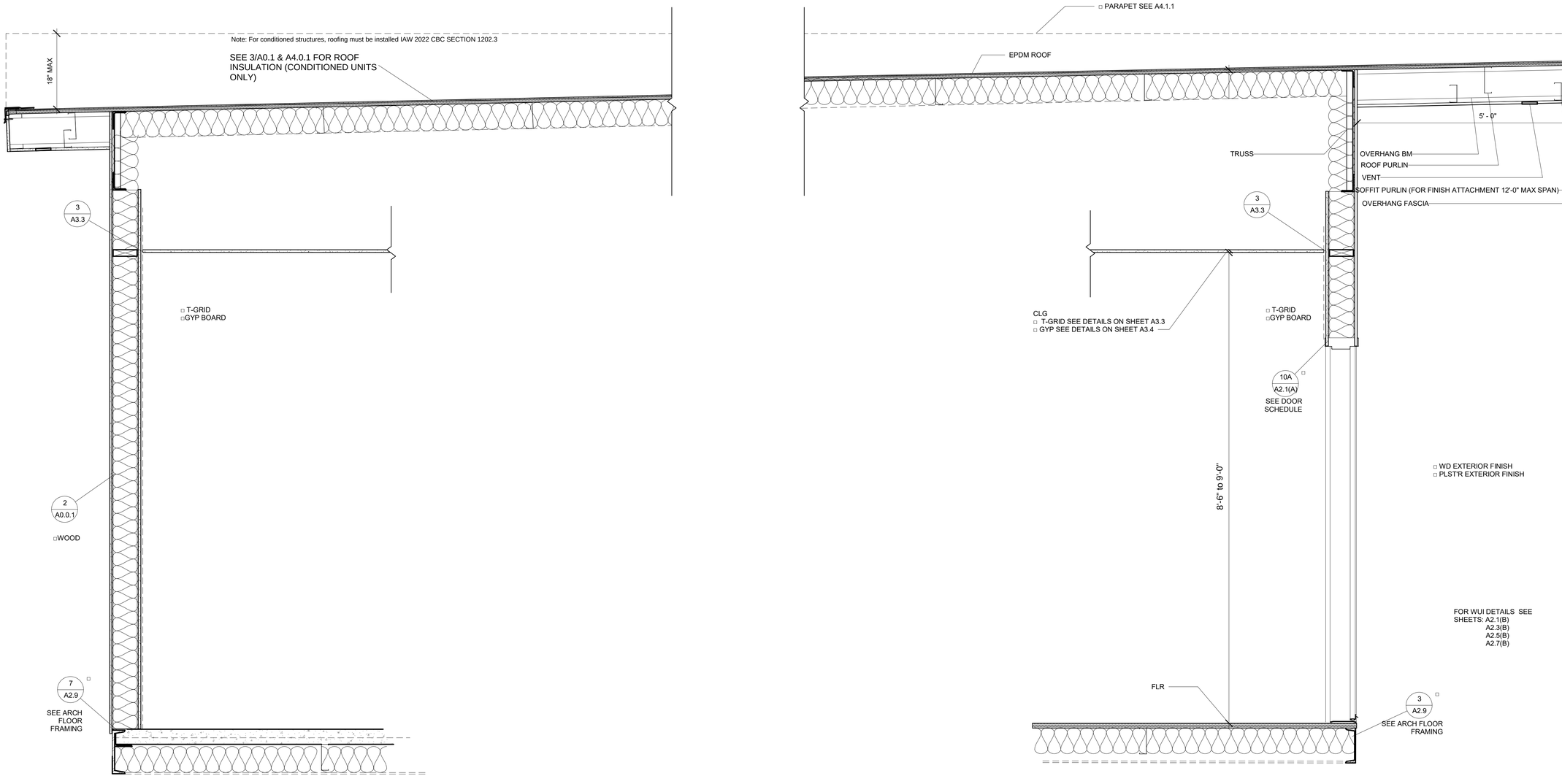
RH/RT

DATE

SHEET NO.

A6.2

SHEET OF



1 ***1" = 1'-0"***
Section (EPDM)

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Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

SECTION - EPDM (MONO)

PROJECT NUMBER 22088

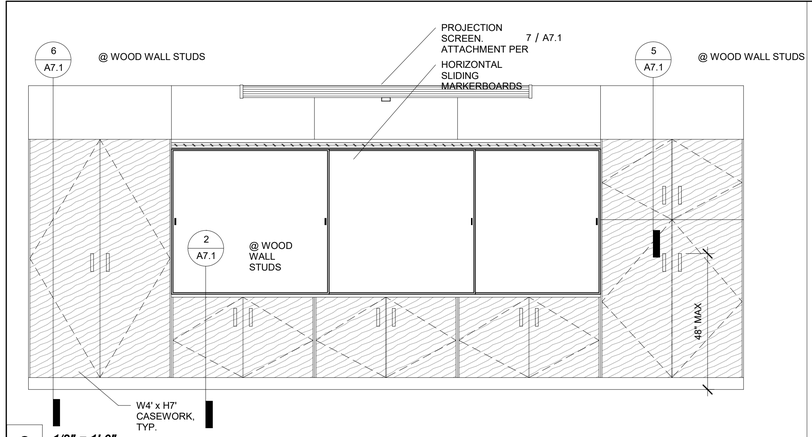
DRAWN BY rMc/SC

CHECKED BY RH/RT

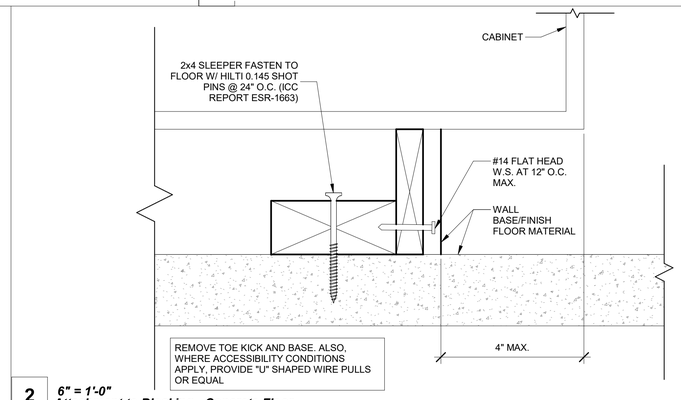
DATE

SHEET NO. A6.3

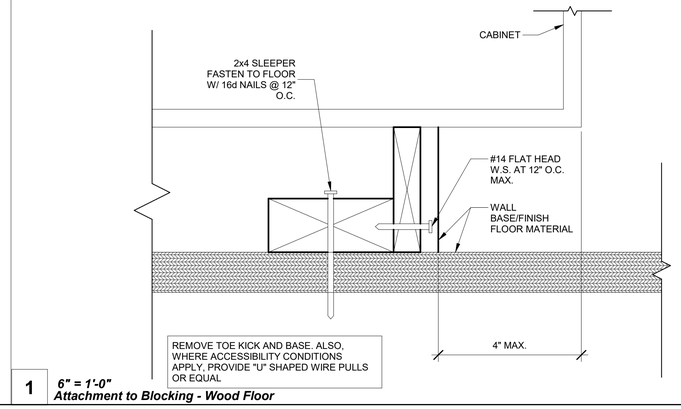
SHEET OF



8 ***1/2" = 1'-0"***
Teaching Wall - Elevation/Section



2 ***6" = 1'-0"***
Attachment to Blocking - Concrete Floor



1 ***6" = 1'-0"***
Attachment to Blocking - Wood Floor

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SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
ADDITIONAL OPTION DETAILS

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE

SHEET NO.
A7.0

SHEET OF

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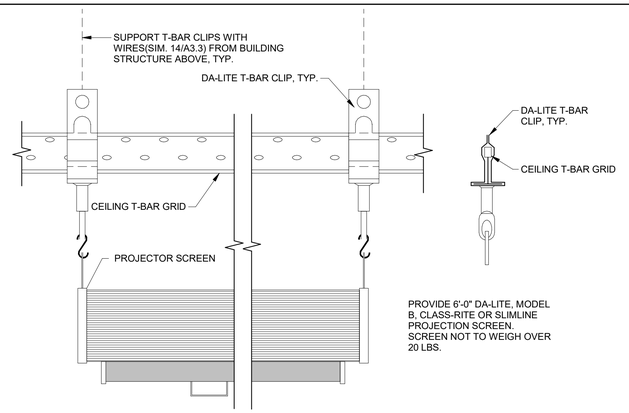
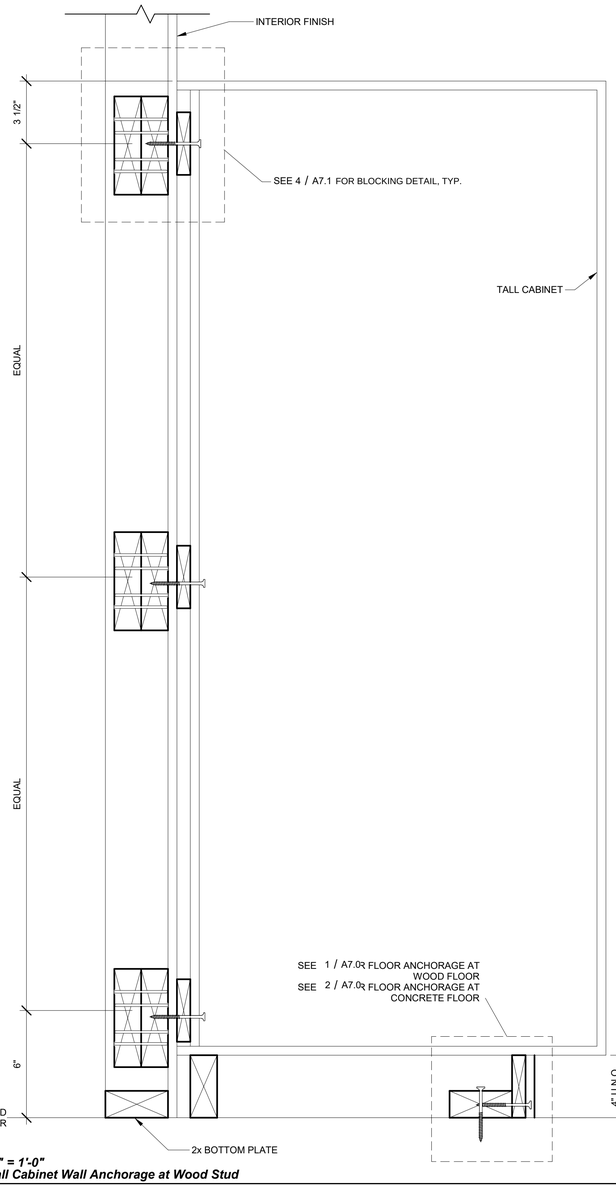
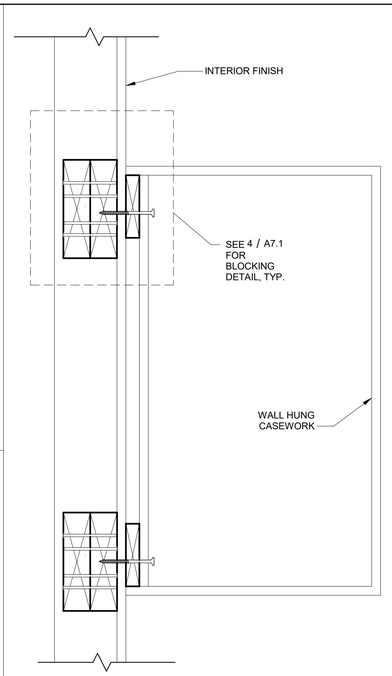


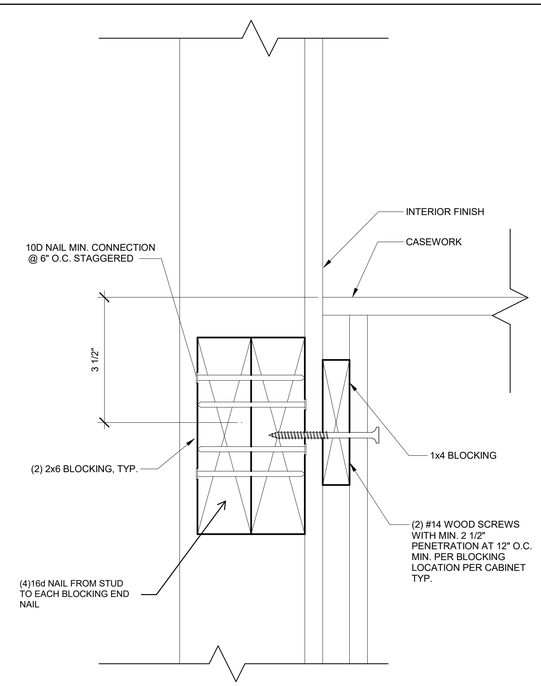
7 *1 1/2" = 1'-0"*
Projection Screen Mounting



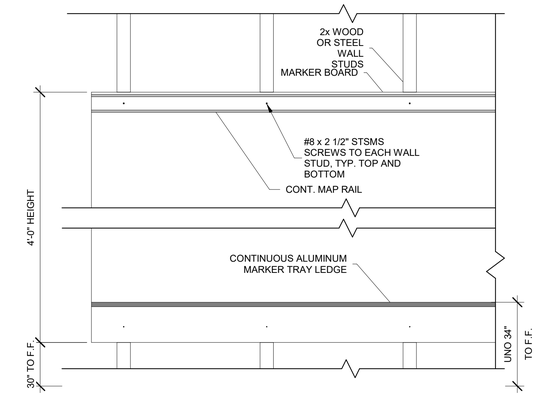
6 *3" = 1'-0"*
Tall Cabinet Wall Anchorage at Wood Stud



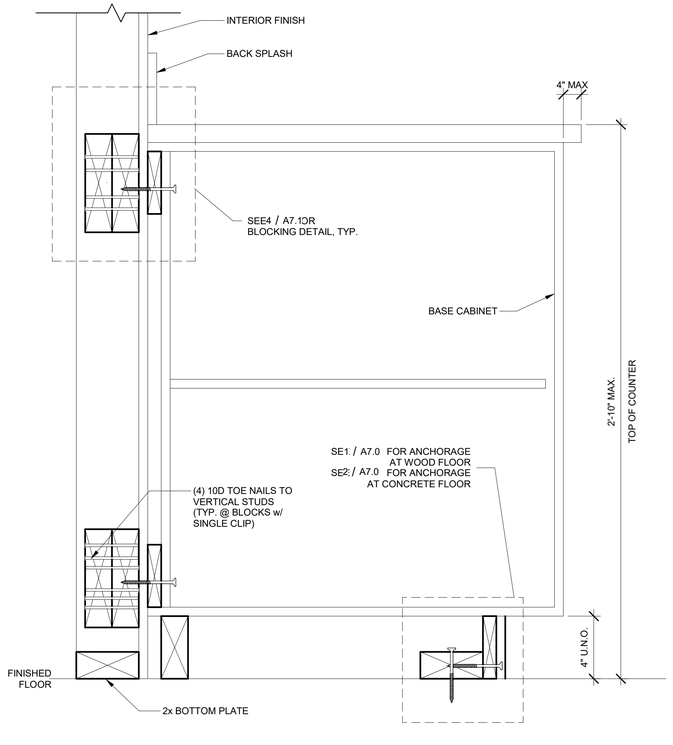
5 *3" = 1'-0"*
Wall Hung Anchorage Cabinet at Wood Stud



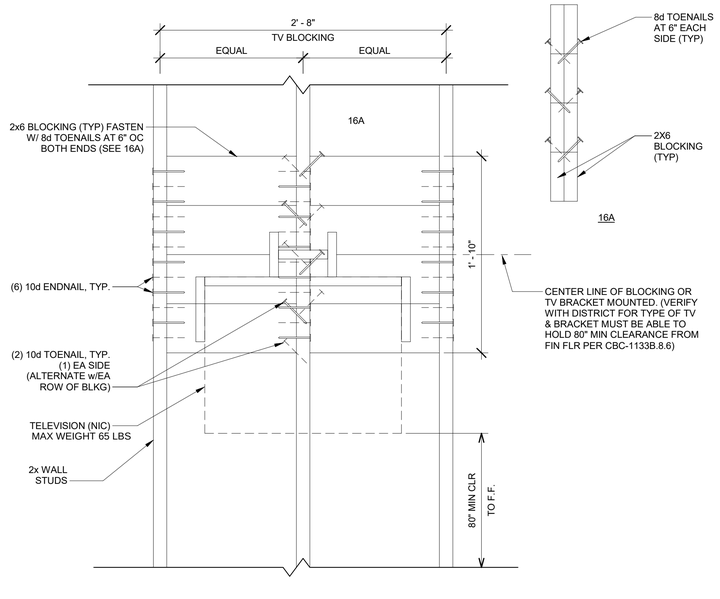
4 *6" = 1'-0"*
Attachment to Blocking at Wood Stud



3 *1 1/2" = 1'-0"*
Marker Board Attachment



2 *3" = 1'-0"*
Base Cabinet Wall Anchorage at Wood Stud



1 *1 1/2" = 1'-0"*
T.V. Blocking Attachment at Wood Stud

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SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

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DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

ADDITIONAL OPTION DETAILS

PROJECT NUMBER 22088

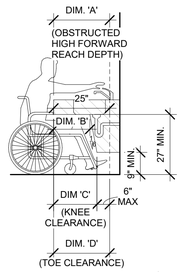
DRAWN BY rMc/SC

CHECKED BY RH/RT

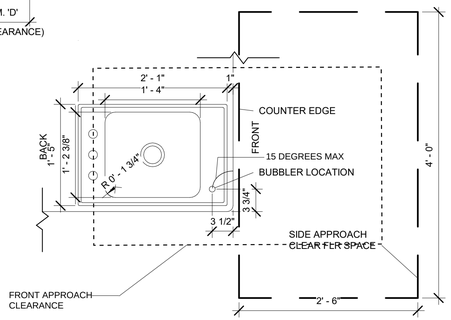
DATE

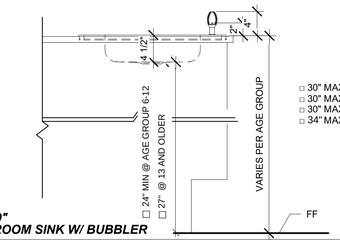
SHEET NO. A7.1

SHEET OF

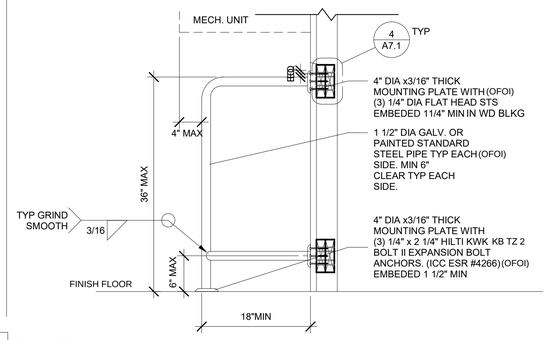


DIM. 'A'	DIM. 'B'	DIM. 'C'	DIM. 'D'
17"	8"	11"	17"
18"	9"	12"	18"
19"	10"	13"	19"
20"	11"	14"	20"
21"	12"	15"	21"
22"	13"	16"	22"
23"	14"	17"	23"
24"	15"	18"	24"
25"	16"	19"	25"

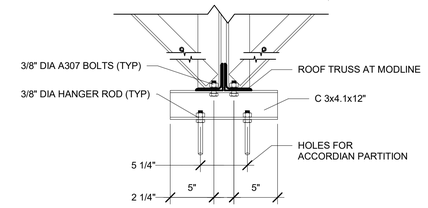




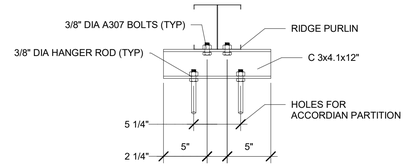
10 ***1" = 1'-0"***
CLASSROOM SINK W/ BUBBLER



5 ***1" = 1'-0"***
HVAC BARRIER at wood stud



2 ***1 1/2" = 1'-0"***
ACCORDIAN DOOR - TOP CONN AT TRUSS



1 ***1 1/2" = 1'-0"***
ACCORDIAN DOOR - TOP CONN AT PURLIN

3 ***3" = 1'-0"***
OPTION FOR ACCORDION PARTITION ATTACHMENT

Heavy Duty 14 Gauge Drinking Fountain
Wall Mount, Fully Exposed
Barrier-Free Access
Model EHWM217RAC

ELKAY®
ROUGH-IN DIMENSIONS
RATED FOR INDOOR AND OUTDOOR USE

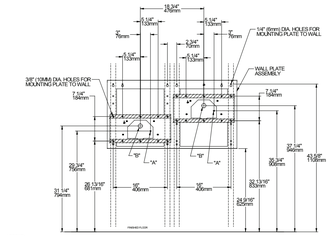
INSTALLER NOTE
THIS DRINKING FOUNTAIN IS FURNISHED WITH A BUBBLER AND WATERWAY WITH ALL CONNECTING FITTINGS WHICH ARE CONCEALED WITHIN THE UNIT. THE ONLY FIELD MATERIAL THAT SHUT OFF VALVE (NOT FURNISHED) TO ACCEPT 3/8" O.D. UNPLATED COPPER TUBE.

OPERATION OF QUICK CONNECT FITTINGS
INSERT TUBE AS SHOWN
PUSH IN UNTIL TUBE BOTTOMS AGAINST RELEASE CAP.
PUSHING CAP AGAINST TUBE RELEASES TUBE.

3/8" O.D. TUBE CONNECT COLD WATER SUPPLY
NOTE: WATERFLOW DIRECTION
BUILDING WATER INLET
SERVICE STOP (NOT FURNISHED)

When installing EHWM217RAC which includes a surface mounting plate, refer to the diagram below.
For electrical, waste, and water supply locations refer to the Installation/Owners manual.

NOTE: Reinforce the wall in the shaded areas.



LEGEND:
A = Recommended water supply location 3/8" O.D. unplated copper tube connect, stubbed 1-1/2" (38mm) from the wall. Shut off by others.
B = Recommended location for waste outlet 1-1/4" O.D. drain, stubbed 6-3/8" (158mm) from the wall.

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Oak Brook, IL 60523
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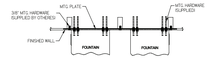
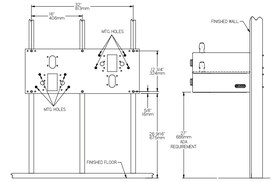
Heavy Duty 14 Gauge Drinking Fountain
Wall Mount, Fully Exposed
Barrier-Free Access
Model EHW217RAC with MPW200

ELKAY®
ROUGH-IN DIMENSIONS
RATED FOR INDOOR AND OUTDOOR USE

When installing EHW217RAC with MPW200 in-wall plate mounted directly to wall studs, refer to the diagrams below.
For electrical, waste, and water supply locations refer to the Installation/Owners manual.

Note – After installation, threaded rods may need to be trimmed.





In keeping with our policy of continuing product improvement, Elkay reserves the right to change specification without notice. Please visit elkay.com for the most current version.

This specification describes an Elkay product with design, quality and functional benefits to the user. When making a comparison of other producer's offerings, be certain these features are not overlooked.

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Oak Brook, IL 60523
630-572-3192
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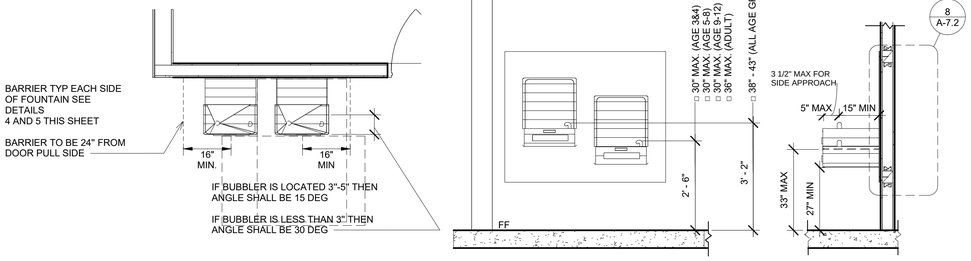
6 ***NTS***
ELKAY EXAMPLE OF MOUNTING ELEVATION

NOTES FOR THIS OWNER FURMINSHED OWNER INSTALLED DRINKING FOUNTAIN:

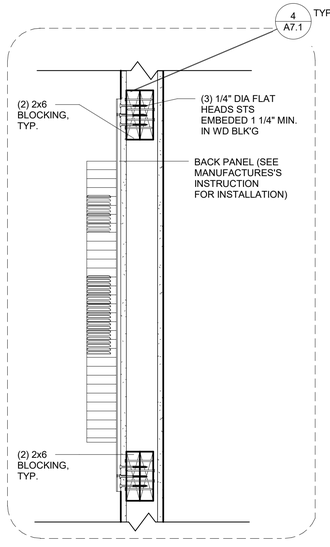
1. FINAL PRODUCT SELECTION IS OWNER RESPONSIBILITY.
2. MOUNTING REQUIREMENTS WILL VARY BY MANUFACTURER'S INSTALLATION INSTRUCTIONS
3. THE ELKAY SHEETS PROVIDED IN THIS SET ARE FOR EXAMPLE PURPOSES ONLY.
4. FINAL PRODUCT SELECTION MUST BE SUBMITTED ALONG WITH SITE SPECIFIC CONSTRUCTION APPLICATION FOR REVIEW
5. MOUNTING HARDWARE SHALL PROVIDE A MINIMUM OF 2" PENETRATION INTO WOOD FRAMING

.

11B-602.6 WATER FLOW. THE SPOUT PROVIDE A FLOW OF WATER 4 INCHES (102mm) high minimum and shall be located 5 inches (127 mm) maximum from the front of the unit. The angle of the water stream shall be measured horizontally relative to the front face of the unit. Where spouts are located less than 3 inches (76 mm) of the front of the unit, the angle of the water stream shall be 30 degrees maximum. Where spouts are located between 3 inches (76 mm) and inches (127 mm) maximum from the front of the unit, the angle of the water stream shall be 15 degrees maximum



7 ***1/2" = 1'-0"***
Drinking Fountain Blocking Detail wood stud



8 ***1 1/2" = 1'-0"***
Section Cut 1A/A-5.2

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ♦ CONSULTING ♦ PROJECT MGT
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02/16/24

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CLIENT

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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
ADDITIONAL OPTION DETAILS

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE

SHEET NO.
A7.2
SHEET OF

8/1/2023 1:37:47 PM C:\Users\User\Documents\22088- Aries, 24x40 PC - MainFile - Low Seismic_detached (2022)_CESAR24D63.rvt

WIRE SIZE	CAPACITY	WIRE TYPE	NO. OF CONDUCTOR PERMITTED 1/2" C	3/4" C	1" C	1 1/4" C
#12	20A	THHN	9	16	25	45
#10	30A	THHN	5	10	16	28
#8	45A	THHN	2	5	8	14
#6	65A	THHN	1	3	5	10
#4	85A	THHN	1	2	4	7

(ALL CONDUCTORS SHALL BE TYPE THHN/THWN 75 DEG. C. COPPER)

1 CONDUIT FILL AND CONDUCTOR CAPACITY TABLE

BOX	SIZE	CU. IN.	MAX NO. OF CONDUCTORS #12	#10	#8	#6
4SS	1 1/4"x4" SQ	18.0	8	7	6	0
4S	1 1/2"x4" SQ	21.0	9	8	7	0
4SD	2 1/8"x4" SQ	30.3	13	12	10	6
4SX	2 7/8"x4" SQ	43.5	23	21	17	10
5SD	2 1/8"x4-11/16" SQ	42.0	18	16	14	6
5SX	3 7/8"x4-11/16" SQ	86.0	38	34	28	17
664	4"x6" SQ	144.0	64	57	48	28

* DEDUCT ONE CONDUCTOR FOR (1) OR MORE GROUNDING CONDUCTORS ENTERING THE BOX

2 JUNCTION BOX SIZE TABLE

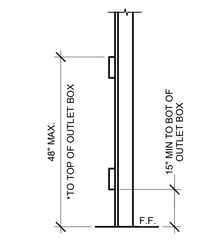
915.4 CARBON MONOXIDE ALARMS. CARBON MONOXIDE ALARMS SHALL COMPLY WITH SECTIONS 915.4.1 THROUGH 915.4.4.

[F] 915.4.1 POWER SOURCE. CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHERE SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE, AND WHEN PRIMARY POWER IS INTERRUPTED, SHALL RECEIVE POWER FROM BATTERY. WIRING SHALL BE PERMANENT AND WITH-OUT A DISCONNECTING SWITCH OTHER THAN REQUIRED FOR OVERCURRENT PROTECTION.

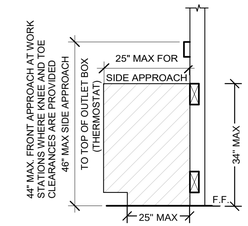
915.2.3 GROUP E OCCUPANCIES. CARBONS MONOXIDE DETECTION SHALL BE INSTALLED IN CLASSROOMS IN GROUP E OCCUPANCIES. CARBON MONOXIDE ALARM SIGNALS SHALL BE AUTOMATICALLY TRANSMITTED TO AN ON-SITE LOCATION THAT IS STAFFED BY SCHOOL PERSONNEL.

915.3 DETECTION EQUIPMENT. CARBON MONOXIDE DETECTION REQUIRED BY SECTIONS 915.1 THROUGH 915.2.3 SHALL BE PROVIDED BY CARBON MONOXIDE DETECTION SYSTEMS COMPLYING WITH SECTION 915.5.

3 CARBON MONOXIDE DETECTION - SECTION 915



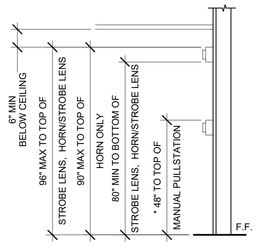
* 30"x48" MIN CLR FLOOR SPACE AT EACH LOCATION FOR PERPENDICULAR APPROACH



OVER OBSTRUCTION

THE KNEE/TOE SPACE MUST EXTEND TO THE SAME DEPTH AS THE ACCESSIBLE OUTLET/SWITCH LOCATED ABOVE- 25" MAX 11.B308.2.2

4 MOUTING ELEV.



NOTES:

1. PROVIDE MIN 30"x48" CLR FLOOR SPACE FOR PERPENDICULAR APPROACH AT EACH LOCATION.

2. THE SWITCH OR SWITCHES INSTALLED IN EMERGENCY LIGHTING CIRCUITS SHALL BE SO ARRANGED THAT ONLY AUTHORIZED PERSONNEL WILL HAVE CONTROL OF EMERGENCY LIGHTING. (CEC art. 700.20)

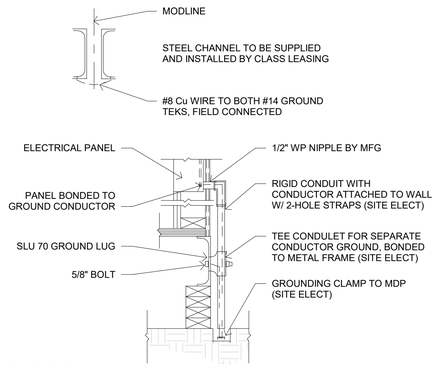
3. PROVIDE SPACE ON ELECTRICAL PANEL FOR LOCK-ON BREAKER, IDENTIFIED WITH RED MARKING, FOR 120 VOLTS FIRE ALARM CIRCUIT, WITH BREAKER LABELED AS FIRE ALARM CIRCUIT, CEC 760.41 (B). BREAKER AND CIRCUIT PROVIDED AND INSTALLED ON SITE BY OTHERS.

4. SMOKE AND HEAT DETECTOR CONDUIT AND DEVICES TO BE PROVIDED AND INTERCONNECTED TO THE FIRE ALARM SYSTEMS ON SITE BY OTHERS.

5. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM SYSTEM FOR ALL SITES, THE FIRE ALARM SYSTEM AND COMPONENTS MAYBE REQUIRED TO BE CHANGED DUE TO EXISTING CONDITIONS OR INCOMPATIBLE COMPONENTS.

5 FIRE ALARM MOUNTING HEIGHTS

ACCEPTANCE TESTS BE COMPLETED ON NEWLY INSTALLED OR REPLACEMENT OF LIGHTING CONTROLS BEFORE PROJECT COMPLETION PER THE CALIFORNIA ENERGY CODE SECTION 10-103. ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED ACCEPTANCE TEST TECHNICIAN (ATT). THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES CORRECTED UNTIL THE INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA. COMPLETED NRCA FORMS SHALL BE SUBMITTED TO THE PROJECT INSPECTOR AND THE DISTRICT



NOTES:

1. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELEC'L. PANEL & TO METAL BUILDING FRAME (CEC 250.52) IN ADDITION TO THE DETAIL SHOWN ABOVE. BOND THE ELECTRICAL GROUND TO METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10 FT. OR MORE, IF AVAILABLE (CEC 250.52)

2. TESTING FOR RESISTANCE TO GROUND, IF RESISTANCE EXCEEDS 25 OHMS INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 6 FEET, UNTIL RESISTANCE REDUCES TO 25 OHMS OR LESS. GROUND TEST MUST BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR AND ALL GROUNDING SHALL BE IN ACCORDANCE WITH CEC ARTICLE 250.56

3. ELEC. TRADE SHALL CHECK AREA FOR EXISTING CONDUITS, SEWER, GAS & WATER PIPING BEFORE DRIVING GROUND RODS.

4. ALL MODULES OF STEEL FRAME BLDGS. SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING). BONDING SHALL INCLUDE METAL RAMP & STAIRS.

5. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250.66

6. EACH BUILDING SHALL BE GROUNDED SEPARARELY WITH A ¾" ROUND X 8 FEET COPPERCLAD STEEL GROUND ROD. WHERE ROCK BOTOOM IS FOUND, DRIVE ROD AT 45 DEGREES MAXIMUM FROM THE VERTICAL OR HAVE IT BURIED IN A TRENCH 30" DEEP MINIMUM.

ACCEPTANCE TESTS BE COMPLETED ON NEWLY INSTALLED OR REPLACEMENT OF LIGHTING CONTROLS BEFORE PROJECT COMPLETION PER THE CALIFORNAI ENERGY CODE SECTION 10-103. ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED ACCEPTANCE TEST TECHNICIAN (ATT). THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES CORRECTED UNTIL THE INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA. COMPLETED NRCA FORMS SHALL BE SUBMITTED TO THE PROJECT INSPECTOR AND THE DISTRICT.

6 TYPICAL GROUNDING DETAILS

REFER TO DSA IR 16-8 & STATE FIRE MARSHAL SOLAR PHOTOVOLTAIC INSTALLATION GUIDELINE

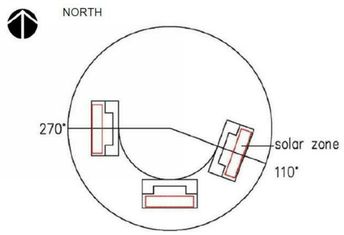
REFER TO **SECTION 110.10 - MANDATORY REQUIREMENTS FOR SOLAR READY BUILDINGS**
SOLAR ZONE AREAS WILL VARY DEPENDING ON PC BUILDING LOCATION.

MINIMUM AREA:

15% OF ROOF AREA (EXCLUDING ANY SKYLIGHT AREA) TO BE RESERVED FOR SOLAR PANEL APPLICATION OR SOLAR READY WILL BE SUPPLIED FROM A BUILDING OR STRUCTURE WITHIN 250 FT OF PC BUILDING.

ORIENTATION:

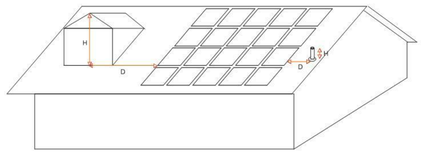
ALL SECTIONS OF THE SOLAR ZONE LOCATED ON STEEP-SLOPED ROOFS GREATER THAN 2:12 SHALL BE ORIENTED BETWEEN 110 DEGREES AND 270 DEGREES OF TRUE NORTH.



SHADING:

ANY OBSTRUCTION, LOCATED ON THE ROOF OR ANY OTHER PART OF THE BUILDING THAT PROJECTS ABOVE THE SOLAR ZONE SHALL BE LOCATED AT A SUFFICIENT HORIZONTAL DISTANCE AWAY FROM THE SOLAR ZONE, IN ORDER TO REDUCE THE RESULTING SHADING OF THE SOLAR ZONE. FOR EACH OBSTRUCTION, THE HORIZONTAL DISTANCE ("D") FROM THE OBSTRUCTION TO THE SOLAR ZONE SHALL BE AT LEAST TWO TIMES THE HEIGHT DIFFERENCE ("H") BETWEEN THE HIGHEST POINT OF THE OBSTRUCTION AND THE HORIZONTAL PROJECTION OF THE NEAREST POINT OF THE SOLAR ZONE.

D ≥ 2 x H



SOURCE: CALIFORNIA ENERGY COMMISSION

STRUCTURAL DESIGN LOADS:

ENTIRE ROOF SURFACE IS DESIGNED STRUCTURALLY TO ACCOMMODATE SOLAR PANELS = 3 PSF

INTERCONNECTION PATHWAYS:

THE LOCATION FOR INVERTERS AND METERING EQUIPMENT AND A PATHWAY FOR ROUTING OF CONDUIT FROM THE SOLAR ZONE TO THE POINT OF INTERCONNECTION WITH THE ELECTRICAL SERVICE WILL VARY DEPENDING ON PC BUILDING LOCATION.

7 SOLAR ZONE AREA

LEGEND

ELECTRICAL PANEL AT +60" AFF TO TOP OF ELECTRICAL PANEL WITH 1 1/2" DIA POWER STUB OUT

ROOF MOUNTED HVAC UNIT-SEE MECHANICAL DWGS

WALL MOUNTED HVAC UNIT, SEE MECHANICAL DWGS

100 CFM CEILING MOUNTED EXHAUST FAN.
INTERLOCKED WITH LIGHT SWITCH

HM — 4SD J-BOX FOR WATER HEATER LOCATE ABOVE CEILING W/ COVER PLATE, HARD WIRE TO UNIT
4SD J-BOX IN ATTIC FOR ATTIC MOUNTED HEAT DETECTOR (DEVICE BY OTHERS). MAXIMUM 35'-0" FROM ANY POINT IN ATTIC BUT NOT MORE THAN 25'-0" FROM TWO PERPENDICULAR WALL AND 50'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO HEAT DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)

H — 4SD J-BOX IN ATTIC FOR CEILING MOUNTED SMOKE DETECTOR (DEVICE BY OTHERS). MAXIMUM 21'-0" FROM ANY POINT IN ROOM BUT NOT MORE THAN 15'-0" TO A PERPENDICULAR WALL AND 30'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO SMOKE DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)

S — RECESSED 4SD J-BOX W/ COVER PLATE FOR FUTURE FIRE ALARM SYSTEM BY OTHERS. MOUNT AT +18" AFF U.O.N. TO CENTERLINE OF BOX AND PROVIDE 1" CO STUB TO ATTIC SPACE WITH PULLSTRING

H — 4SD J-BOX FOR EXTERIOR FIRE ALARM HORN (DEVICE BY OTHERS). MOUNT AT +90" AFF TO TOP OF DEVICE WITH 3/4" CONDUIT STUBBED TO ATTIC WITH PULLSTRING

4SD J-BOX/SINGLE GANG MUD RING FOR FIRE ALARM STROBE (DEVICE BY OTHERS).
BOTTOM OF LENS 80" MIN TOP OF LENS 96" MAX AFF WITH 3/4"CONDUIT TO EXTERIOR FIRE ALARM HORN WITH PULLSTRING

4SD J-BOX/ SINGLE GANG MUD RING FOR FIRE ALARM PULL STATION (DEVICE BY OTHERS). MOUNT AT +48" AFF TO TOP OF CONTROL BOX WITH 3/4" CONDUIT TO FIRE ALARM STROBE WITH PULLSTRING

EXIT — EXIT SIGN WITH BATTERY BACK UP. EXIT SIGN REQUIRED FOR CLASSROOMS WITH TWO OR MORE EXTERIOR DOORS. FLS 90' BACK UP. CLASSROOMS WITH ONE EXTERIOR DOOR-OPTIONAL.

CLOCK OUTLET AT +90" AFF TO CENTERLINE OF DEVICE

EXTERIOR LED LIGHT FIXTURE. 30w MAX WITH PHOTOCELL MOUNT AT +93" AFF

ROOF — ROOF MOUNTED WEATHER PROOF GFI RECEPTACLE

GFI — GROUND FAULT CIRCUIT INTERRUPT RECEPTACLE WITHIN 6'-0" OF ALL SINKS

WP — EXTERIOR WEATHER PROOF GFI RECEPTACLE AT +24" AFF FOR A/C SERVICES (MAX 25'-0" FROM UNITS)

DUPLEX (WALL MOUNTED) RECEPTACLE 15A-125V-3 WIRE. MOUNT AT +15" AFF U.O.N. TO BOTTOM OF OUTLET BOX

MIN. + 15" TO BOTTOM OF BOX

$3 — 3-WAY LIGHT SWITCH. MOUNT AT+48" AFF TO TOP OF SWITCH BOX

$ — LIGHT SWITCH. MOUNT AT+48" AFF TO TOP OF SWTICH BOX

$D — SINGLE BUTTON DIMMER SWITCH, AT +48" AFF, TO TOP OF SWITCH BOX, WATTSTOPPER #LMDM-101 OR EQUAL

WS-1 — SINGLE SWITCH WALL OCCUPANCY SENSOR.
WATTSTOPPER PW-100 OR EQUAL. SENSOR TO BE MOUNTED
AT +44" AFF AND USE FOR OPEN ROOM (OR RESTROOM)
LESS THAN 100 SQ FT W/ (1) CIRCUIT. AS NEEDED

US — ULTRASONIC CEILING OCCUPANCY SENSOR.
WATTSTOPPER W-500A OR EQUAL. SENSOR TO BE CONNECTED TO KEYED LIGHT SWITCHES FOR MANUAL OVERRIDE AND USE FOR RESTROOM W/ PARTITIONS.AS NEEDED

PC — CEILING MOUNTED PHOTOCELL, WATTSTOPPER #LMLS-500 OR EQUAL AS NEEDED

OS — CEILING MOUNTED OCCUPANCY SENSOR.
WATTSTOPPER #LMPC-100 OR EQUAL. AS NEEDED

2x4 CEILING LIGHT WITH (3) LED PANELIGHT, LAY-IN
LIGHT FIXTURE WITH DIMMABLE BALLAST
DIMI LIGHTING-MODEL DM-P72448W-40K-ZZ
WATTAGE: 48W (48" LG) OR EQUAL

2x4 CEILING LIGHT WITH (3) LED PANELIGHT, LAY-IN
LIGHT FIXTURE WITH DIMMABLE BALLAST
DIMI LIGHTING-MODEL DM-P72448W-40K-ZZ
WATTAGE: 48W (48" LG) OR EQUAL
EACH LIGHT FIXTURE WHICH IS INDICATED AS BEING AN EMERGENCY LIGHT SHALL HAVE A BALLAST BATTERY PACK INSTALLED ON THE FIXTURE. THE BATTERY PACK SHALL PROVIDE POWER TO A SINGLE LAMP WITHIN THE FIXTURE FOR NO LESS THAN 90 MINUTES. ANY LIGHT FIXTURE Equipped WITH A BATTERY PACK SHALL BE WIRED IN SUCH A MANNER THAT THE BATTERY WILL BE ACTIVATED IMMEDIATELY UPON LOSS OF POWER TO THE FIXTURE. ADDITIONALLY THE BATTERY PACK SHALL BE OPERATED USING BATTERY POWER LIGHTING CONTROL SWITCHES AND SENSORS SHALL NOT BE ABLE TO SHUT THE FIXTURE OFF.

NOTE: SEE 4/A3.2 FOR PHOTOMETRIC DATA

8 1" = 1'-0" ELECTRICAL LEGEND

1. INSTALLATION SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) - 2020 EDITION AND NATIONAL FIRE PROTECTION ASSOCIATION FIRE CODES (NFPA). AND 2022 CBC ELECTRICAL CODE.
2. ELECTRICAL EQUIPMENT LOCATIONS INDICATED ARE SHOWN DIAGRAMMATICALLY, EXACT LOCATION SHALL BE VERIFIED AND ADJUSTED FOR FIELD CONDITIONS.
3. RECEPTACLES AND TELEPHONE/DATA OUTLETS SHALL BE INSTALLED 18" AFF TO THE CENTER OF THE DEVICE, UNLESS NOTED OTHERWISE.
4. CONTRACTOR SHALL FIELD TEST AND PROVIDE TEST REPORT VERIFYING THAT RECEPTACLES ARE WIRED AND FUCTION PROPERLY.
5. CONTRACTOR SHALL LABEL EACH RECEPTACLE, LIGHT FIXTURE, TOGGLE SWITCH, SAFETY SWITCH AND OCCUPANCY SENSOR WITH PANEL NAME AND BRANCH CIRCUIT ID.
6. WEATHERPROOF RECEPTACLES SHALL BE TYPE TO PROTECT RECEPTACLE FROM WEATHER WHEN PLUG INSERTED.
7. THE MATERIAL REQUIRED FOR THE WORK SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED, UNLESS SPECIFICALLY NOTED OTHERWISE. CONTRACTOR SHALL ASSUME NOTES LISTING MATERIAL AND/OR EQUIPMENT BEGIN WITH THE WORDS "SUPPLY AND INSTALL" U.O.N.".
8. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS BEFORE SUBMITTING MATERIAL AND BECOME THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS AT THE SITE. BY THE ACT OF SUBMITTING PROPOSED MATERIALS FOR THE WORK, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH STUDY AND EXAMINATION AND TO ACCEPT ALL CONDITIONS RESENT AT THE SITE. NO REQUEST FOR ADDITIONAL PAYMENT WILL BE CONSIDERED AS VALID, DUE TO FAILURE TO ALLOW FOR CONDITIONS, WHICH MAY EXIST.
9. CONTRACTOR'S SCOPE SHALL INCLUDE ALL WORK SHOWN ON THE PLANS AND SPECIFICATIONS. SUBSTITUTION REQUESTS FOR EQUIPMENT SPECIFIED SHALL BE SUBMITTED FOR CONSIDERATION TO THE OWNER AND ENGINEER IN WRITING. ALL SUBSTITUTIONS MUST BE REVIEWED BY THE ENGINEER. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS, AND THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS OWN EXPENSE FOR ANY CHARGES RESULTING FROM HIS PROPOSED SUBSTITUTIONS WHICH AFFECT OTHER PARTS OF HIS OWN WORK, THE OWNER, ENGINEER OF RECORD, OR THE WORK OF OTHER CONTRACTORS.
10. COORDINATE ALL WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
11. UNINTERRUPTED EXISTING ELECTRICAL POWER SHALL BE MAINTAINED TO OTHER TRADES FOR TEMPORARY POWER AREAS OF THE SITE DURING CONSTRUCTION. PROVIDE ANY TEMPORARY SERVICES AS MAY BE REQUIRED. IDENTIFY AT BID TIME.
12. ALL PENETRATIONS IN RATED WALLS (INDICATED IN ARCHITECTURAL LIFE SAFETY PLANS), ARE TO BE INSTALLED USING THE APPROPRIATE UL RATED PENETRATION ASSEMBLIES.
13. EQUIPMENT SHALL BE LISTED, LABELED OR CERTIFIED FOR ITS USE BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) AS RECOGNIZED BY THE U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AN HEALTH ADMINISTRATION.
14. ALL ELECTRICAL EQUIPMENT CONNECTORS SHALL BE 75° RATED.
15. ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26 AND 30.

    A. ALL PERMANENT EQUIPMENT AND COMPONENTS.
    B. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
    C. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.
16. THE ATTACHMENT OF THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

    A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
    B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.
17. FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT I NSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.
18. ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.7, 13.6.5.6 AND 2022 CBC SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26
19. THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPA #) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.
20. COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AN BRACING OF THE PIPE, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS.
21. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.
22. ELEC. TRADE SHALL CHECK AREA FOR EXISTING CONDUITS, SEWER, GAS & WATER PIPING BEFORE DRIVING GROUND RODS.
23. NON-CURRENT CARRYING METAL PARTS OF THE SYSTEM SHALL BE PROPERLY GROUNDED TO COMPLY WITH NEC REQUIREMENTS.
24. EACH BUILDING SHALL BE GROUNDED SEPARARELY WITH A ¾" ROUND X 8 FEET COPPERCLAD STEEL GROUND ROD. WHERE ROCK BOTOOM IS FOUND, DRIVE ROD AT 45 DEGREES MAXIMUM FROM THE VERTICAL OR HAVE IT BURIED IN A TRENCH 30" DEEP MINIMUM.
25. TESTING FOR RESISTANCE TO GROUND, IF RESISTANCE EXCEEDS 25 OHMS INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 6 FEET, UNTIL RESISTANCE REDUCES TO 25 OHMS OR LESS. GROUND TEST MUST BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR AND ALL GROUNDING SHALL BE IN ACCORDANCE WITH CEC ARTICLE 250
26. PROVIDE A GREEN WIRE GROUND CONDUCTOR IN ALL CONDUITS WITH POWER OR LIGHTING CONDUCTORS.
27. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELEC'L. PANEL & TO METAL BUILDING FRAME (CEC 250.52) IN ADDITION TO THE DETAIL SHOWN ABOVE. BOND THE ELECTRICAL GROUND TO METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10 FT. OR MORE, IF AVAILABLE (CEC 250.52)
28. CHECK RESISTANT TO GROUND ROD. 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 (CEC 250.56).
29. ALL MODULES OF STEEL FRAME BLDGS. SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING). BONDING SHALL INCLUDE METAL RAMP & STAIRS.
30. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250.66
31. PER CEC210.8(B) ALL RECEPTACLES AT THE FOLLOWING LOCATIONS SHALL HAVE GROUND-FAULT CIRCUIT INTERRUPTER (GFCI) - (1) BATHROOMS, (2) KITCHENS, (3) SINKS (WITHIN 6 FT), (4) INDOOR WET AREAS, (5) LOCKER ROOMS, (6) GARAGE, SERVICE BAYS OR SIMILAR, (7) ROOFTOPS, (8) OUTDOORS.
32. IF CLOSED BY GWB INSTALL ONE ATTIC HEAT DETECTOR PER MODULE: WHEN STANDARD OPEN WEB TRUSS SYSTEM IS USED ADDITIONAL ATTIC HEAT DETECTORS ARE NOT REQUIRED.

9 ELECTRICAL GENERAL NOTES

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROFESSIONAL STAMP

02/16/24

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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
ELECTRICAL GENERAL NOTES

PROJECT NUMBER 22088

DRAWN BY AM

CHECKED BY RT

DATE

SHEET NO. E0.1

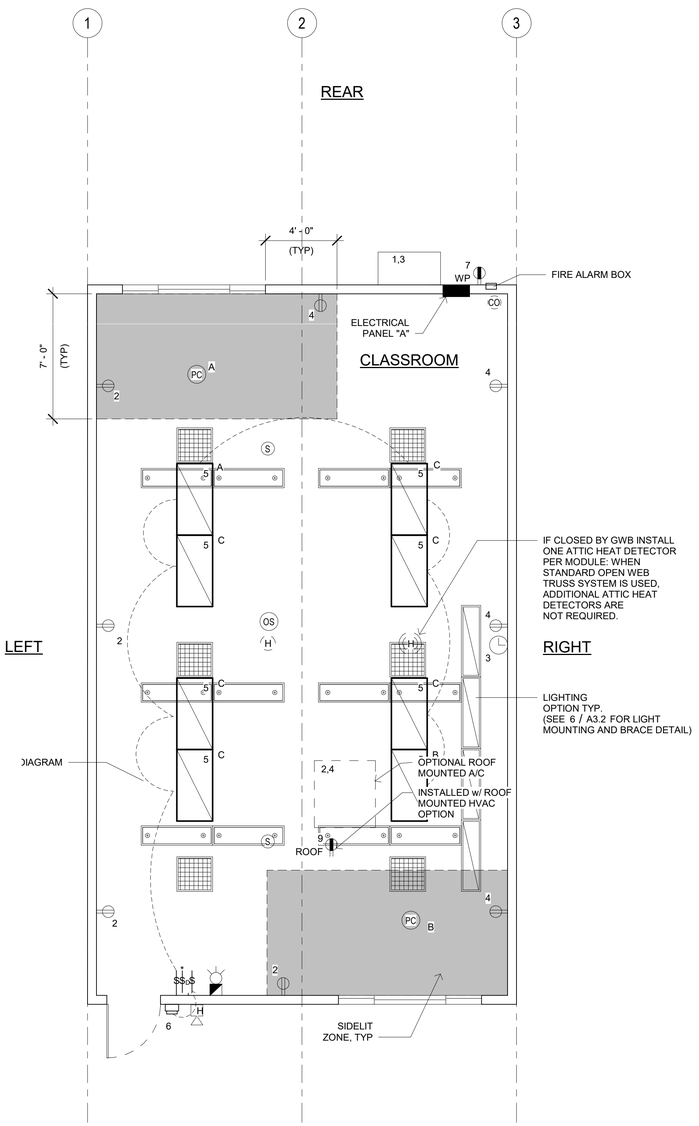
SHEET OF

6/15/2021 11:52:03 PM C:\Users\User\Documents\20093 - Aries, 24x40 PC - MainFile - Low Seismic_6.7_CES4R24D63.rvt

SYMBOL

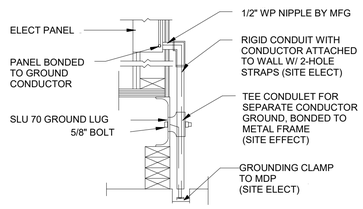
SOLAR TUBE DIFFUSER

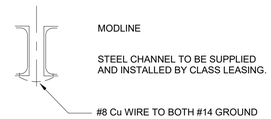
TUBE SIZE=21"(630mm)
LIGHT COVERAGE AREA=250-300ft² (23-28m)



NOTE: PROVIDE A MINIMUM OF 72 SF SOLAR READY AREA PER MODULE. AREA TO BE A MINIMUM OF 5' IN ANY DIRECTION WITH A MINIMUM SPACE OF 80 SF PER BUILDING.

1 ***1/4" = 1'-0"***
ELECTRICAL PLAN

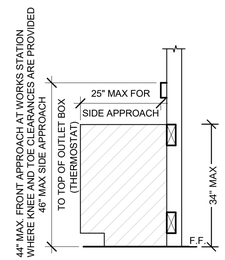




NOTES:

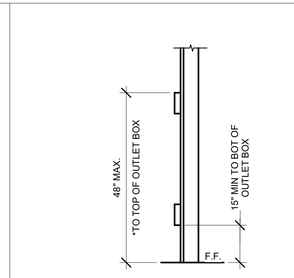
1. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELEC'L. PANEL & TO METAL BUILDING FRAME (CEC 250.52) IN ADDITION TO THE DETAIL SHOWN ABOVE. BOND THE ELECTRICAL GROUND TO METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10 FT. OR MORE, IF AVAILABLE (CEC 250.52)
2. CHECK RESISTANT TO GROUND ROD. 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 (CEC 250.56).
3. ELEC. TRADE SHALL CHECK AREA FOR EXISTING CONDUITS, SEWER, GAS & WATER PIPING BEFORE DRIVING GROUND RODS.
4. ALL MODULES OF STEEL FRAME BLDGS. SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING). BONDING SHALL INCLUDE METAL RAMP & STAIRS.
5. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250.66

2 ***1 1/2" = 1'-0"***
TYPICAL GROUNDING DETAIL



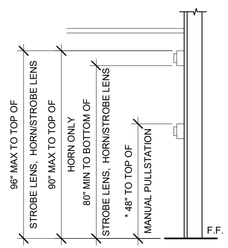
* SEE DETAIL 6/E1.0

3 ***1" = 1'-0"***
ELEV. @ WORKSTATION



* 30"x48" MIN CLR FLOOR SPACE AT EACH LOCATION FOR PERPENDICULAR APPROACH

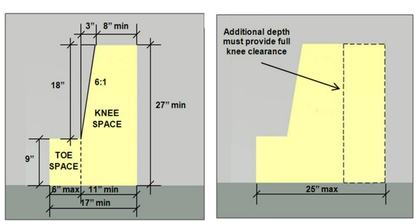
4 ***1" = 1'-0"***
MOUTING ELEV.



* PROVIDE MIN 30"x48" CLR FLOOR SPACE FOR PERPENDICULAR APPROACH AT EACH LOCATION

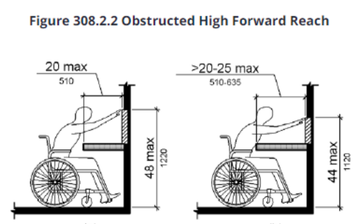
THE SWITCH OR SWITCHES INSTALLED IN EMERGENCY LIGHTING CIRCUITS SHALL BE SO ARRANGED THAT ONLY AUTHORIZED PERSONNEL WILL HAVE CONTROL OF EMERGENCY LIGHTING. (CEC art. 700.20)

5 ***1" = 1'-0"***
FIRE ALARM MOUNTING HEIGHTS



6 **TOE SPACE CLEARANCE**

Figure 308.2.2 Obstructed High Forward Reach



GENERAL GROUNDING NOTES

EACH BUILDING SHALL BE GROUNDED SEPARARELY WITH A ¾" ROUND X 8 FEET COPPERCLAD STEEL GROUND ROD. WHERE ROCK BOTOOM IS FOUND, DRIVE ROD AT 45 DEGREES MAXIMUM FROM THE VERTICAL OR HAVE IT BURIED IN A TRENCH 30" DEEP MINIMUM.

TESTING FOR RESISTANCE TO GROUND, IF RESISTANCE EXCEEDS 25 OHMS INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 6 FEET, UNTIL RESISTANCE REDUCES TO 25 OHMS OR LESS. GROUND TEST MUST BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR AND ALL GROUNDING SHALL BE IN ACCORDANCE WITH CEC ARTICLE 250

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 2022 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. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN
3. 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 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 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 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., HCAI 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 HCAI PREAPPROVAL (OPM #) #_____.

FIRE ALARM NOTES

PROVIDE SPACE ON ELECTRICAL PANEL FOR LOCK-ON BREAKER, IDENTIFIED WITH RED MARKING, FOR 120 VOLTS FIRE ALARM CIRCUIT, WITH BREAKER LABELED AS FIRE ALARM CIRCUIT, CEC 760.41 (B).
BREAKER AND CIRCUIT PROVIDED AND INSTALLED ON SITE BY OTHERS.

SMOKE AND HEAT DETECTOR CONDUIT AND DEVICES TO BE PROVIDED AND INTERCONNECTED TO THE FIRE ALARM SYSTEMS ON SITE BY OTHERS

APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM SYSTEM FOR ALL SITES. THE FIRE ALARM SYSTEM AND COMPONENTS MAYBE REQUIRED TO BE CHANGED DUE TO EXISTING CONDITIONS OR INCOMPATIBLE COMPONENTS.

CONDUIT FILL AND CONDUCTOR CAPACITY TABLE

(ALL CONDUCTORS SHALL BE TYPE THHN/THWN 75 DEG. C. COPPER)

WIRE SIZE	CAPACITY	WIRE TYPE	NO. OF CONDUCTOR 1/2" C	3/4" C	1" C	1 1/4" C
#12	20A	THHN	9	16	25	45
#10	30A	THHN	5	10	16	28
#8	45A	THHN	2	5	8	14
#6	65A	THHN	1	3	5	10
#4	85A	THHN	1	2	4	7

JUNCTION BOX SIZE TABLE

BOX	SIZE	CU. IN.	MAX NO. OF CONDUCTORS #12	#10	#8	#6
4SS	1 1/4"x4" SQ	18.0	8	7	6	0
4S	1 1/2"x4" SQ	21.0	9	8	7	0
4SD	2 1/8"x4" SQ	30.3	13	12	10	6
4SX	2 7/8"x4" SQ	43.5	23	21	17	10
5SD	2 1/8"x4-11/16" SQ	42.0	18	16	14	6
5SX	3 7/8"x4-11/16" SQ	86.0	38	34	28	17
664	4"x6" SQ	144.0	64	57	48	28

* DEDUCT ONE CONDUCTOR FOR (1) OR MORE GROUNDING CONDUCTORS ENTERING THE BOX

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
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11590 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

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Code: 2022 CBC

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PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
ELECTRICAL PLAN 24x40

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE

SHEET NO.
E1.0

SHEET OF

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PANEL A 24" x40"	120/208 VOLTS, 1ϕ, 3 WIRE			MAIN LUGS ONLY				PANEL BOX= 100A		
	LOADCENTER	RECESSED						GRD & NEUTRAL BARS		AMP BUS
	VOLTAMPS		10000 AIC					VOLTAMPS		
DESCRIPTION	ϕ A	ϕ B	C/B	CKT	ϕ	CKT	C/B	ϕA	ϕ B	DESCRIPTION
AC WALL MOUNTED	6670		30	1	A	2	20	720		OUTLETS
		6670	30	3	B	4	20		720	OUTLETS
GENERAL LIGHTING	720		20	5	A	6	20	40		EXTERIOR LIGHT
EXTERIOR GFI/WP		180	20	7	B	8	20			
			20	9	A	10	20	40		FIRE ALARM
DED SOLAR READY										
DED SOLAR READY										
SUBTOTAL	ϕ A 7390	ϕ B 6850						ΦA 800	ϕ B 720	SUBTOTAL
TOTAL	8190	7570	8190 /120 VOLTS= 68.25 76.25 AMPS + .94= 77.19 AMPS							

1 *1" = 1'-0"*
ELECTRICAL PANEL_WALL MOUNTED

PANEL A 24" x40"	120/208 VOLTS, 1 ϕ, 3 WIRE			MAIN LUGS ONLY				PANEL BOX= 100A		
	LOADCENTER	RECESSED						GRD & NEUTRAL BARS		AMP BUS
	VOLTAMPS		10000 AIC					VOLTAMPS		
DESCRIPTION	ϕ A	ϕ B	C/B	CKT	ϕ	CKT	C/B	ϕA	ϕ B	DESCRIPTION
AC Roof Mounted	7360		30	1	A	2	20	720		OUTLETS
		7360	30	3	B	4	20		720	OUTLETS
GENERAL LIGHTING	720		20	5	A	6	20	40		EXTERIOR LIGHT
EXTERIOR GFI/WP		180	20	7	B	8	20			
			20	9	A	10	20	40		FIRE ALARM
DED SOLAR READY										
DED SOLAR READY										
SUBTOTAL	ϕ A 8080	ϕ B 7540						ΦA 800	ϕ B 720	SUBTOTAL
TOTAL	8880	8260	8880 /120 VOLTS= 74 74 AMPS + 18.5= 92.5 AMPS							

2 *1" = 1'-0"*
ELECTRICAL PANEL_ROOF MOUNTED

LEGEND

ELECTRICAL PANEL AT +60" AFF TO TOP OF ELECTRICAL PANEL WITH 1 1/2" DIA POWER STUB OUT

ROOF MOUNTED HVAC UNIT-SEE MECHANICAL DWGS

WALL MOUNTED HVAC UNIT, SEE MECHANICAL DWGS

100 CFM CEILING MOUNTED EXHAUST FAN. INTERLOCKED WITH LIGHT SWITCH

(WH) 4SD J-BOX FOR WATER HEATER LOCATE ABOVE CEILING W/ COVER PLATE, HARD WIRE TO UNIT

H 4SD J-BOX IN ATTIC FOR ATTIC MOUNTED HEAT DETECTOR (DEVICE BY OTHERS). MAXIMUM 35'-0" FROM ANY POINT IN ATTIC BUT NOT MORE THAN 25'-0" FROM TWO PERPENDICULAR WALL AND 50'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO HEAT DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)

(S) 4SD J-BOX IN ATTIC FOR CEILING MOUNTED SMOKE DETECTOR (DEVICE BY OTHERS). MAXIMUM 21'-0" FROM ANY POINT IN ROOM BUT NOT MORE THAN 15'-0" TO A PERPENDICULAR WALL AND 30'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO SMOKE DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)

RECESSED 4SD J-BOX W/ COVER PLATE FOR FUTURE FIRE ALARM SYSTEM BY OTHERS. MOUNT AT +18" AFF U.O.N. TO CENTERLINE OF BOX AND PROVIDE 1" CO STUB TO ATTIC SPACE WITH PULLSTRING

H 4SD J-BOX FOR EXTERIOR FIRE ALARM HORN (DEVICE BY OTHERS). MOUNT AT +90" AFF TO TOP OF DEVICE WITH 3/4" CONDUIT STUBBED TO ATTIC WITH PULLSTRING

4SD J-BOX/SINGLE GANG MUD RING FOR FIRE ALARM STROBE (DEVICE BY OTHERS). BOTTOM OF LENS 80" MIN TOP OF LENS 96" MAX AFF WITH 3/4"CONDUIT TO EXTERIOR FIRE ALARM HORN WITH PULLSTRING

4SD J-BOX/ SINGLE GANG MUD RING FOR FIRE ALARM PULL STATION (DEVICE BY OTHERS). MOUNT AT +48" AFF TO TOP OF CONTROL BOX WITH 3/4" CONDUIT TO FIRE ALARM STROBE WITH PULLSTRING

EXIT EXIT SIGN WITH BATTERY BACK UP. EXIT SIGN REQUIRED FOR CLASSROOMS WITH TWO OR MORE EXTERIOR DOORS. FLS 90' BACK UP. CLASSROOMS WITH ONE EXTERIOR DOOR-OPTIONAL.

CLOCK OUTLET AT +90" AFF TO CENTERLINE OF DEVICE

EXTERIOR LED LIGHT FIXTURE. 30w MAX WITH PHOTOCELL MOUNT AT +93" AFF

ROOF ROOF MOUNTED WEATHER PROOF GFI RECEPTACLE

GFI GROUND FAULT CIRCUIT INTERRUPT RECEPTACLE WITHIN 6'-0" OF ALL SINKS

WP EXTERIOR WEATHER PROOF GFI RECEPTACLE AT +24" AFF FOR A/C SERVICES (MAX 25'-0" FROM UNITS)

DUPLEX (WALL MOUNTED) RECEPTACLE 15A-125V-3 WIRE. MOUNT AT +15" AFF U.O.N. TO BOTTOM OF OUTLET BOX

MIN. + 15" TO BOTTOM OF BOX

$3 3-WAY LIGHT SWITCH. MOUNT AT+48" AFF TO TOP OF SWITCH BOX

$ LIGHT SWITCH. MOUNT AT+48" AFF TO TOP OF SWTICH BOX

$D SINGLE BUTTON DIMMER SWITCH, AT +48" AFF, TO TOP OF SWITCH BOX, WATTSTOPPER #LMDM-101 OR EQUAL

WS-1 SINGLE SWITCH WALL OCCUPANCY SENSOR. WATTSTOPPER PW-100 OR EQUAL. SENSOR TO BE MOUNTED AT +44" AFF AND USE FOR OPEN ROOM (OR RESTROOM) LESS THAN 100 SQ FT W/ (1) CIRCUIT.

US ULTRASONIC CEILING OCCUPANCY SENSOR. WATTSTOPPER W-500A OR EQUAL. SENSOR TO BE CONNECTED TO KEYED LIGHT SWITCHES FOR MANUAL OVERRIDE AND USE FOR RESTROOM W/ PARTITIONS.

PC CEILING MOUNTED PHOTOCELL, WATTSTOPPER #LMLS-500 OR EQUAL

OS CEILING MOUNTED OCCUPANCY SENSOR. WATTSTOPPER #LMPC-100 OR EQUAL.

2x4 CEILING LIGHT WITH (3) LED PANELIGHT, LAY-IN LIGHT FIXTURE WITH DIMMABLE BALLAST DIMI LIGHTING-MODEL DM-P72448W-40K-ZZ WATTAGE: 48W (48" LG) OR EQUAL

2x4 CEILING LIGHT WITH (3) LED PANELIGHT, LAY-IN LIGHT FIXTURE WITH DIMMABLE BALLAST DIMI LIGHTING-MODEL DM-P72448W-40K-ZZ WATTAGE: 48W (48" LG) OR EQUAL EACH LIGHT FIXTURE WHICH IS INDICATED AS BEING AN EMERGENCY LIGHT SHALL HAVE A BALLAST BATTERY PACK INSTALLED ON THE FIXTURE. THE BATTERY PACK SHALL PROVIDE POWER TO A SINGLE LAMP WITHIN THE FIXTURE FOR NO LESS THAN 90 MINUTES. ANY LIGHT FIXTURE Equipped WITH A BATTERY PACK SHALL BE WIRED IN SUCH A MANNER THAT THE BATTERY WILL BE ACTIVATED IMMEDIATELY UPON LOSS OF POWER TO THE FIXTURE. ADDITIONALLY THE BATTERY PACK SHALL BE OPERATED USING BATTERY POWER LIGHTING CONTROL SWITCHES AND SENSORS SHALL NOT BE ABLE TO SHUT THE FIXTURE OFF.

NOTE: SEE 4/A3.2 FOR PHOTOMETRIC DATA

3 *1" = 1'-0"*
LEGEND

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R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
11590 W Bernardo Court, Suite 100
San Diego, CA 92127
www.rstavares.com

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER MANNY D. FRANCO JR. No. E-13380 03/31/24 ELECTRICAL STATE OF CALIFORNIA

RST#22088

02/16/24

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SHEET TITLE

ELECTRICAL SCHEDULES 24x40

PROJECT NUMBER 22088

DRAWN BY rMc/SC

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SYMBOL

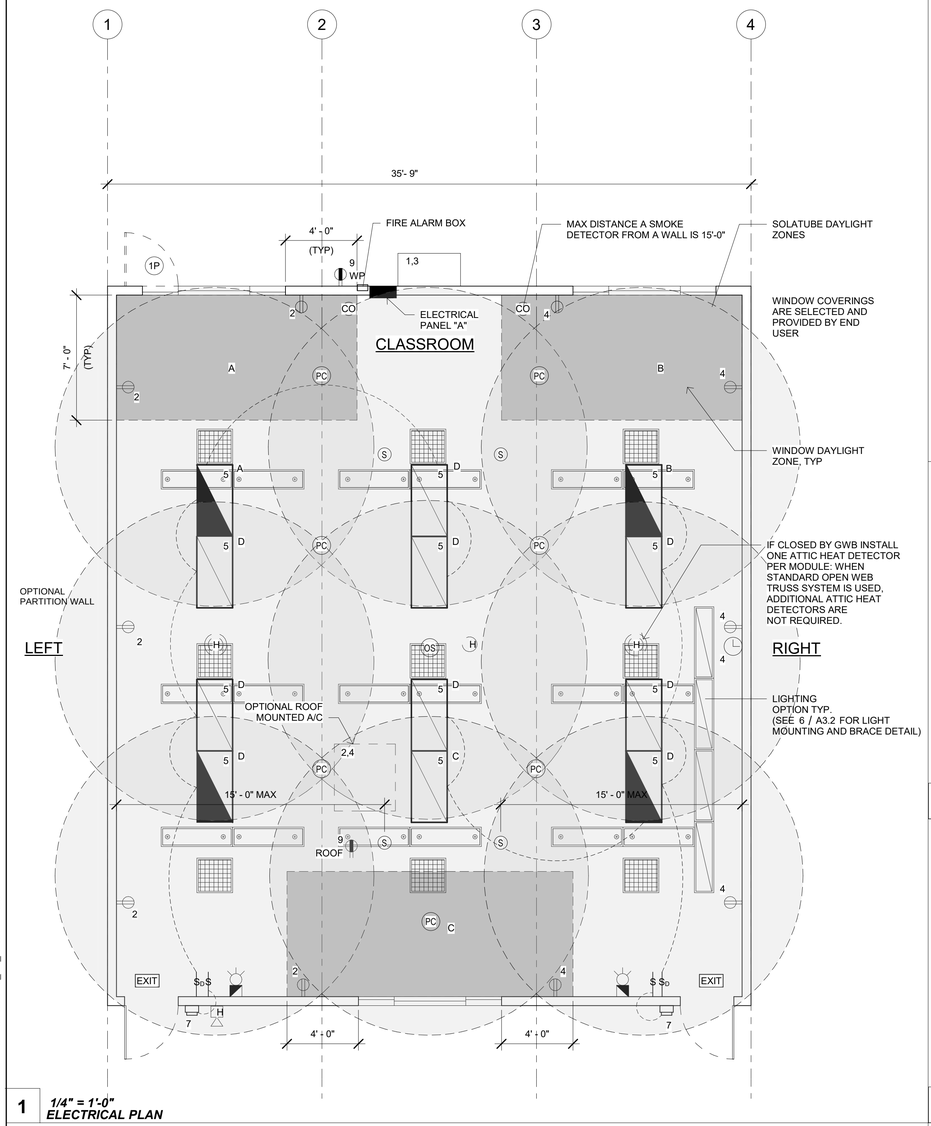
SOLAR TUBE DIFFUSER

TUBE SIZE=21(530mm)

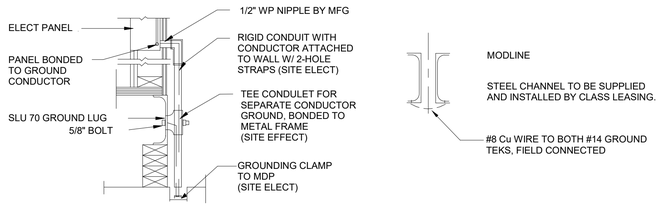
LIGHT COVERAGE AREA=250-300ft² (23-28mm)

NOTE: PROVIDE A MINIMUM OF 72 SF SOLAR READY AREA PER MODULE. AREA TO BE A MINIMUM OF 5' IN ANY DIRECTION WITH A MINIMUM SPACE OF 80 SF PER BUILDING.

MULTI-LEVEL SWITCHING IS REQUIRED FOR AREAS GREATER THAN 100SF. SWITCHES WIRED SO THAT INTERIOR LIGHTING CAN BE TURNED FULLY ON, HALF OFF, OR COMPLETELY OFF. ALL MULTI-LEVEL SWITCHES ARE EQUIPPED WITH A SLIDE FOR CONTINUOUS DIMMING.



1 **1/4" = 1'-0"**
ELECTRICAL PLAN



NOTES:

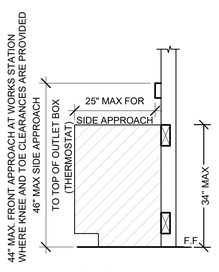
1. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELEC'L. PANEL & TO METAL BUILDING FRAME (CEC 250.52) IN ADDITION TO THE DETAIL SHOWN ABOVE. BOND THE ELECTRICAL GROUND TO METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10 FT. OR MORE, IF AVAILABLE (CEC 250.52)

2. CHECK RESISTANT TO GROUND ROD. 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 (CEC 250.56).

3. ELEC. TRADE SHALL CHECK AREA FOR EXISTING CONDUITS, SEWER, GAS & WATER PIPING BEFORE DRIVING GROUND RODS.

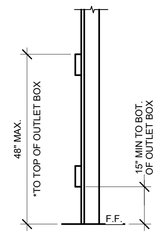
4. ALL MODULES OF STEEL FRAME BLDGS. SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING). BONDING SHALL INCLUDE METAL RAMP & STAIRS.

5. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250.66



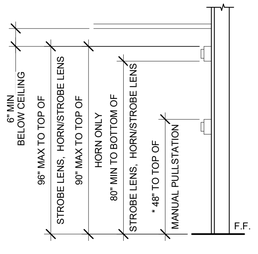
* SEE DETAIL 6/E1.2

3 **1" = 1'-0"**
ELEV. @ WORKSTATION



* 30"x48" MIN CLR FLOOR SPACE AT EACH LOCATION FOR PERPENDICULAR APPROACH

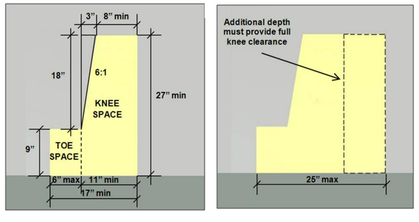
4 **1" = 1'-0"**
MOUNTING ELEV.



* PROVIDE MIN 30"x48" CLR FLOOR SPACE FOR PERPENDICULAR APPROACH AT EACH LOCATION

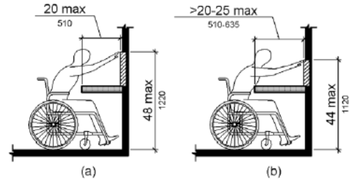
THE SWITCH OR SWITCHES INSTALLED IN EMERGENCY LIGHTING CIRCUITS SHALL BE SO ARRANGED THAT ONLY AUTHORIZED PERSONNEL WILL HAVE CONTROL OF EMERGENCY LIGHTING. (CEC art. 700.20)

5 **1" = 1'-0"**
FIRE ALARM MOUNTING HEIGHTS



6 **TOE SPACE CLEARANCE**

Figure 308.2.2 Obstructed High Forward Reach



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 2022 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. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN
3. 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 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 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 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., HCAI 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 HCAI PREAPPROVAL (OPM #) #_____.

FIRE ALARM NOTES

PROVIDE SPACE ON ELECTRICAL PANEL FOR LOCK-ON BREAKER, IDENTIFIED WITH RED MARKING, FOR 120 VOLTS FIRE ALARM CIRCUIT, WITH BREAKER LABELED AS FIRE ALARM CIRCUIT, CEC 760.41 (B).
BREAKER AND CIRCUIT PROVIDED AND INSTALLED ON SITE BY OTHERS.

SMOKE AND HEAT DETECTOR CONDUIT AND DEVICES TO BE PROVIDED AND INTERCONNECTED TO THE FIRE ALARM SYSTEMS ON SITE BY OTHERS

APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM SYSTEM FOR ALL SITES. THE FIRE ALARM SYSTEM AND COMPONENTS MAYBE REQUIRED TO BE CHANGED DUE TO EXISTING CONDITIONS OR INCOMPATIBLE COMPONENTS.

CONDUIT FILL AND CONDUCTOR CAPACITY TABLE

(ALL CONDUCTORS SHALL BE TYPE THHN/THWN 75 DEG. C. COPPER)

WIRE SIZE	CAPACITY	WIRE TYPE	NO. OF CONDUCTOR PERMITTED			
			1/2" C	3/4" C	1" C	1 1/4" C
#12	20A	THHN	9	16	25	45
#10	30A	THHN	5	10	16	28
#8	45A	THHN	2	5	8	14
#6	65A	THHN	1	3	5	10
#4	85A	THHN	1	2	4	7

GENERAL GROUNDING NOTES

EACH BUILDING SHALL BE GROUNDED SEPARARELY WITH A ¾" ROUND X 8 FEET COPPERCLAD STEEL GROUND ROD. WHERE ROCK BOTOOM IS FOUND, DRIVE ROD AT 45 DEGREES MAXIMUM FROM THE VERTICAL OR HAVE IT BURIED IN A TRENCH 30" DEEP MINIMUM.

TESTING FOR RESISTANCE TO GROUND, IF RESISTANCE EXCEEDS 25 OHMS INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 6 FEET, UNTIL RESISTANCE REDUCES TO 25 OHMS OR LESS. GROUND TEST MUST BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR AND ALL GROUNDING SHALL BE IN ACCORDANCE WITH CEC ARTICLE 250

JUNCTION BOX SIZE TABLE

BOX	SIZE	CU. IN.	MAX NO. OF CONDUCTORS			
			#12	#10	#8	#6
4SS	1 1/4"x4" SQ	18.0	8	7	6	0
4S	1 1/2"x4" SQ	21.0	9	8	7	0
4SD	2 1/8"x4" SQ	30.3	13	12	10	6
4SX	2 7/8"x4" SQ	43.5	23	21	17	10
5SD	2 1/8"x4-11/16" SQ	42.0	18	16	14	6
5SX	3 7/8"x4-11/16" SQ	86.0	38	34	28	17
664	4"x6" SQ	144.0	64	57	48	28

* DEDUCT ONE CONDUCTOR FOR (1) OR MORE GROUNDING CONDUCTORS ENTERING THE BOX

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROFESSIONAL STAMP

02/16/24

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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
ELECTRICAL PLAN
36x40

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE

SHEET NO.
E1.2

SHEET OF

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PANEL A= 100A	120/208 VOLTS, 1 ϕ, 3 WIRE			MAIN LUGS ONLY						
	LOADCENTER	RECESSED						GRD & NEUTRAL BARS		AMP BUS
	VOLTAMPS			10000 AIC				VOLTAMPS		
DESCRIPTION	ϕ A	ϕ B	C/B	CKT	ϕ	CKT	C/B	ϕA	ϕ B	DESCRIPTION
AC WALL MOUNTED- 5 TON	7705		30	1	A	2	20	900		OUTLETS
		7705	30	3	B	4	20		1080	OUTLETS
GENERAL LIGHTING	1440		20	5	A	6	20	180		EXTERIOR GFI/WP
EXTERIOR LIGHTING		80	20	7	B	8	20		180	ROOF GFI/WP
DED SOLAR READY										
DED SOLAR READY										
SUBTOTAL	ϕ A 9145	ϕ B 7785						ϕ A 1080	ϕ B 1260	SUBTOTAL
TOTAL	10225	9045	10225/120 VOLTS=81.21 81.21+ 1.7= 82.91							

2 *1" = 1'-0"*
ELECTRICAL PANEL_WALL MOUNTED

PANEL A= 100A	120/208 VOLTS, 1 ϕ, 3 WIRE			MAIN LUGS ONLY						
	LOADCENTER	RECESSED						GRD & NEUTRAL BARS		AMP BUS
	VOLTAMPS			10000 AIC				VOLTAMPS		
DESCRIPTION	ϕ A	ϕ B	C/B	CKT	ϕ	CKT	C/B	ϕA	ϕ B	DESCRIPTION
AC ROOF MOUNTED- 5 TON	8280		30	1	A	2	20	900		OUTLETS
		8280	30	3	B	4	20		1080	OUTLETS
GENERAL LIGHTING	1440		20	5	A	6	20	180		EXTERIOR GFI/WP
EXTERIOR LIGHTING		80	20	7	B	8	20		180	ROOF GFI/WP
DED SOLAR READY										
DED SOLAR READY										
SUBTOTAL	ϕ A 9720	ϕ B 8360						ϕ A 1080	ϕ B 1260	SUBTOTAL
TOTAL	10800	9620	10800/120 VOLTS= 90 90 + 1.15= 9115							

3 *1" = 1'-0"*
ELECTRICAL PANEL_ROOF MOUNTED

LEGEND

- ELECTRICAL PANEL AT +60" AFF TO TOP OF ELECTRICAL PANEL WITH 1 1/2" DIA POWER STUB OUT
- ROOF MOUNTED HVAC UNIT-SEE MECHANICAL DWGS
- WALL MOUNTED HVAC UNIT, SEE MECHANICAL DWGS
- 100 CFM CEILING MOUNTED EXHAUST FAN. INTERLOCKED WITH LIGHT SWITCH
- HM — 4SD J-BOX FOR WATER HEATER LOCATE ABOVE CEILING W/ COVER PLATE, HARD WIRE TO UNIT
- H — 4SD J-BOX IN ATTIC FOR ATTIC MOUNTED HEAT DETECTOR (DEVICE BY OTHERS). MAXIMUM 35'-0" FROM ANY POINT IN ATTIC BUT NOT MORE THAN 25'-0" FROM TWO PERPENDICULAR WALL AND 50'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO HEAT DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)
- S — 4SD J-BOX IN ATTIC FOR CEILING MOUNTED SMOKE DETECTOR (DEVICE BY OTHERS). MAXIMUM 21'-0" FROM ANY POINT IN ROOM BUT NOT MORE THAN 15'-0" TO A PERPENDICULAR WALL AND 30'-0" BETWEEN THEM. PROVIDE A 6'-O" CONDUIT FROM EACH J-BOX TO SMOKE DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)
- RECESSED 4SD J-BOX W/ COVER PLATE FOR FUTURE FIRE ALARM SYSTEM BY OTHERS. MOUNT AT +18" AFF U.O.N. TO CENTERLINE OF BOX AND PROVIDE 1" CO STUB TO ATTIC SPACE WITH PULLSTRING
- H — 4SD J-BOX FOR EXTERIOR FIRE ALARM HORN (DEVICE BY OTHERS). MOUNT AT +90" AFF TO TOP OF DEVICE WITH 3/4" CONDUIT STUBBED TO ATTIC WITH PULLSTRING
- 4SD J-BOX/SINGLE GANG MUD RING FOR FIRE ALARM STROBE (DEVICE BY OTHERS). BOTTOM OF LENS 80" MIN TOP OF LENS 96" MAX AFF WITH 3/4"CONDUIT TO EXTERIOR FIRE ALARM HORN WITH PULLSTRING
- 4SD J-BOX/ SINGLE GANG MUD RING FOR FIRE ALARM PULL STATION (DEVICE BY OTHERS). MOUNT AT +48" AFF TO TOP OF CONTROL BOX WITH 3/4" CONDUIT TO FIRE ALARM STROBE WITH PULLSTRING
- EXIT — EXIT SIGN WITH BATTERY BACK UP. EXIT SIGN REQUIRED FOR CLASSROOMS WITH TWO OR MORE EXTERIOR DOORS. FLS 90' BACK UP. CLASSROOMS WITH ONE EXTERIOR DOOR-OPTIONAL.
- CLOCK OUTLET AT +90" AFF TO CENTERLINE OF DEVICE
- EXTERIOR LED LIGHT FIXTURE. 30w MAX WITH PHOTOCELL MOUNT AT +93" AFF
- ROOF — ROOF MOUNTED WEATHER PROOF GFI RECEPTACLE
- GFI — GROUND FAULT CIRCUIT INTERRUPT RECEPTACLE WITHIN 6'-0" OF ALL SINKS
- WP — EXTERIOR WEATHER PROOF GFI RECEPTACLE AT +24" AFF FOR A/C SERVICES (MAX 25'-0" FROM UNITS)
- DUPLEX (WALL MOUNTED) RECEPTACLE 15A-125V-3 WIRE. MOUNT AT +15" AFF U.O.N. TO BOTTOM OF OUTLET BOX

MIN. + 15" TO BOTTOM OF BOX

- $3 — 3-WAY LIGHT SWITCH. MOUNT AT+48" AFF TO TOP OF SWITCH BOX
- $ — LIGHT SWITCH. MOUNT AT+48" AFF TO TOP OF SWTICH BOX
- $D — SINGLE BUTTON DIMMER SWITCH, AT +48" AFF, TO TOP OF SWITCH BOX, WATTSTOPPER #LMDM-101 OR EQUAL
- WS-1 — SINGLE SWITCH WALL OCCUPANCY SENSOR. WATTSTOPPER PW-100 OR EQUAL. SENSOR TO BE MOUNTED AT +44" AFF AND USE FOR OPEN ROOM (OR RESTROOM) LESS THAN 100 SQ FT W/ (1) CIRCUIT.
- US — ULTRASONIC CEILING OCCUPANCY SENSOR. WATTSTOPPER W-500A OR EQUAL. SENSOR TO BE CONNECTED TO KEYED LIGHT SWITCHES FOR MANUAL OVERRIDE AND USE FOR RESTROOM W/ PARTITIONS.
- PC — CEILING MOUNTED PHOTOCELL, WATTSTOPPER #LMLS-500 OR EQUAL
- OS — CEILING MOUNTED OCCUPANCY SENSOR. WATTSTOPPER #LMPC-100 OR EQUAL.
- 2x4 CEILING LIGHT WITH (3) LED PANELIGHT, LAY-IN LIGHT FIXTURE WITH DIMMABLE BALLAST DIMI LIGHTING-MODEL DM-P72448W-40K-ZZ WATTAGE: 48W (48" LG) OR EQUAL
- 2x4 CEILING LIGHT WITH (3) LED PANELIGHT, LAY-IN LIGHT FIXTURE WITH DIMMABLE BALLAST DIMI LIGHTING-MODEL DM-P72448W-40K-ZZ WATTAGE: 48W (48" LG) OR EQUAL EACH LIGHT FIXTURE WHICH IS INDICATED AS BEING AN EMERGENCY LIGHT SHALL HAVE A BALLAST BATTERY PACK INSTALLED ON THE FIXTURE. THE BATTERY PACK SHALL PROVIDE POWER TO A SINGLE LAMP WITHIN THE FIXTURE FOR NO LESS THAN 90 MINUTES. ANY LIGHT FIXTURE Equipped WITH A BATTERY PACK SHALL BE WIRED IN SUCH A MANNER THAT THE BATTERY WILL BE ACTIVATED IMMEDIATELY UPON LOSS OF POWER TO THE FIXTURE. ADDITIONALLY THE BATTERY PACK SHALL BE OPERATED USING BATTERY POWER LIGHTING CONTROL SWITCHES AND SENSORS SHALL NOT BE ABLE TO SHUT THE FIXTURE OFF.

NOTE: SEE 4/A3.2 FOR PHOTOMETRIC DATA

PROJECT SPECIFIC STATE AGENCY APPROVAL

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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

ELECTRICAL SCHEDULE 36x40

PROJECT NUMBER 22088

DRAWN BY rMc/SC

CHECKED BY RH/RT

DATE

SHEET NO. E1.3

SHEET OF

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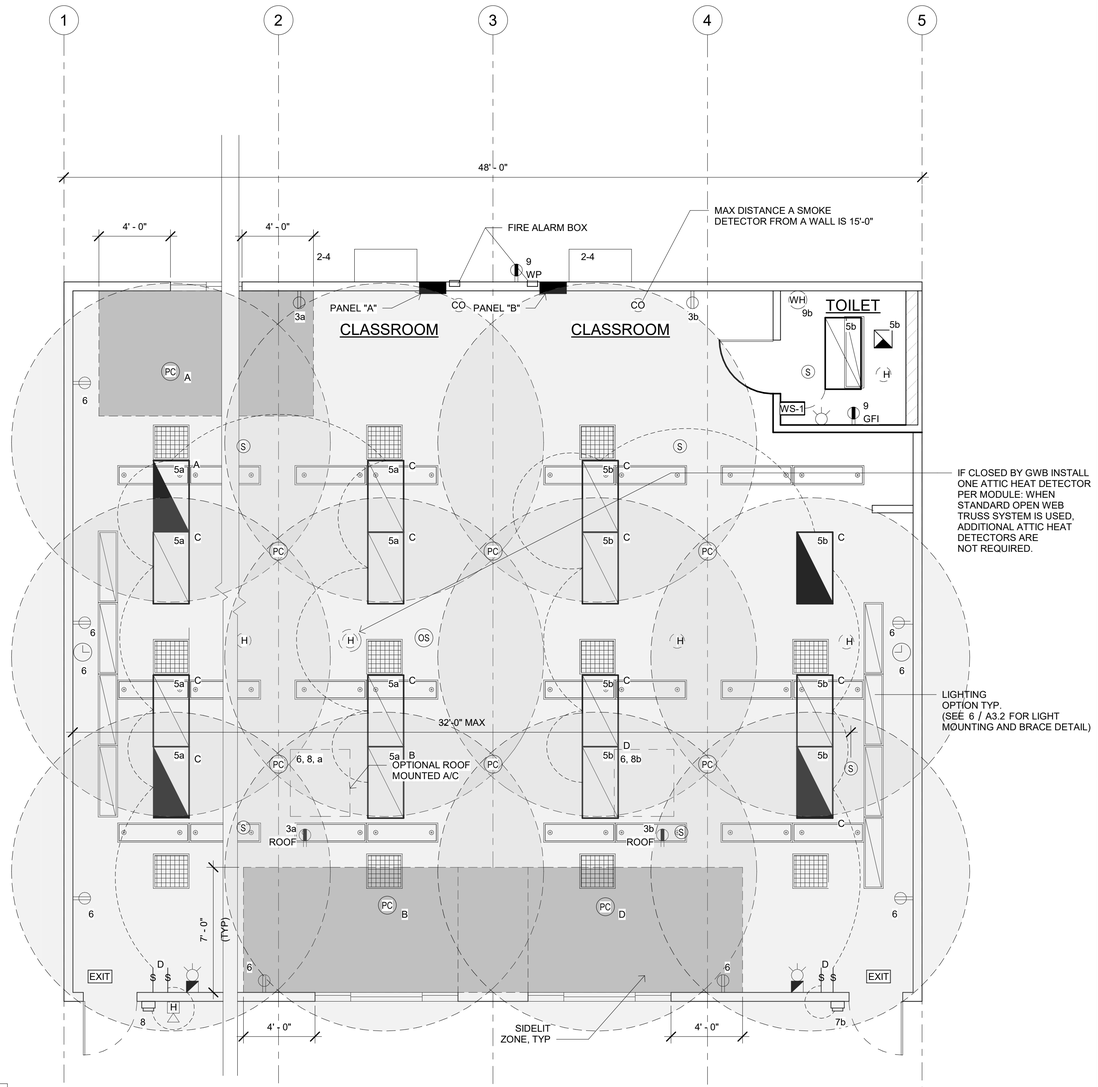
SYMBOL

SOLAR TUBE DIFFUSER

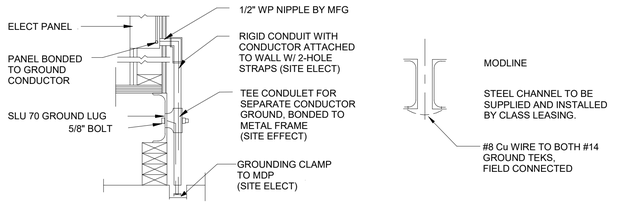
SOLATUBE SIZE=21"(530mm)
DAYLIGHT ZONE COVERAGE AREA=250-300ft² (23-28m)

NOTE: PROVIDE A MINIMUM OF 72 SF SOLAR READY AREA PER MODULE. AREA TO BE A MINIMUM OF 5' IN ANY DIRECTION WITH A MINIMUM SPACE OF 80 SF PER BUILDING.

MULTI-LEVEL SWITCHING IS REQUIRED FOR AREAS GREATER THAN 100SF. SWITCHES WIRED SO THAT INTERIOR LIGHTING CAN BE TURNED FULLY ON, HALF OFF, OR COMPLETELY OFF. ALL MULTI-LEVEL SWITCHES ARE EQUIPPED WITH A SLIDE FOR CONTINUOUS DIMMING.



1 ***1/4" = 1'-0"***
ELECTRICAL PLAN



NOTES:

1. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELEC'L. PANEL & TO METAL BUILDING FRAME (CEC 250.52) IN ADDITION TO THE DETAIL SHOWN ABOVE. BOND THE ELECTRICAL GROUND TO METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10 FT. OR MORE, IF AVAILABLE (CEC 250.52)

2. CHECK RESISTANT TO GROUND ROD. 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 (CEC 250.56).

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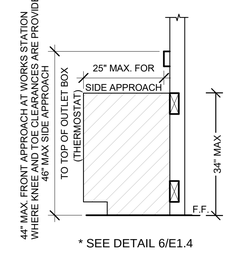
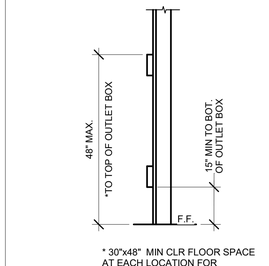


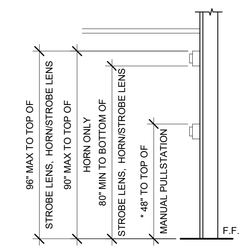
* SEE DETAIL 6/E1.4

3 ***1" = 1'-0"***
ELEV. @ WORKSTATION



* 30"x48" MIN CLR FLOOR SPACE AT EACH LOCATION FOR PERPENDICULAR APPROACH

4 ***1" = 1'-0"***
MOUNTING ELEV.



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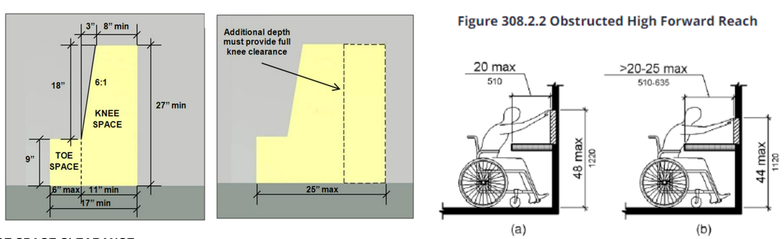

6 **TOE SPACE CLEARANCE**

GENERAL GROUNDING NOTES

EACH BUILDING SHALL BE GROUNDED SEPARARELY WITH A ¾" ROUND X 8 FEET COPPERCLAD STEEL GROUND ROD. WHERE ROCK BOTOOM IS FOUND, DRIVE ROD AT 45 DEGREES MAXIMUM FROM THE VERTICAL OR HAVE IT BURIED IN A TRENCH 30" DEEP MINIMUM.

TESTING FOR RESISTANCE TO GROUND, IF RESISTANCE EXCEEDS 25 OHMS INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 6 FEET, UNTIL RESISTANCE REDUCES TO 25 OHMS OR LESS. GROUND TEST MUST BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR AND ALL GROUNDING SHALL BE IN ACCORDANCE WITH CEC ARTICLE 250

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 2022 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. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN
3. 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.

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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 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 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 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., HCAI 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 HCAI PREAPPROVAL (OPM #) #_____.

FIRE ALARM NOTES

PROVIDE SPACE ON ELECTRICAL PANEL FOR LOCK-ON BREAKER, IDENTIFIED WITH RED MARKING, FOR 120 VOLTS FIRE ALARM CIRCUIT, WITH BREAKER LABELED AS FIRE ALARM CIRCUIT, CEC 760.41 (B).
BREAKER AND CIRCUIT PROVIDED AND INSTALLED ON SITE BY OTHERS.

SMOKE AND HEAT DETECTOR CONDUIT AND DEVICES TO BE PROVIDED AND INTERCONNECTED TO THE FIRE ALARM SYSTEMS ON SITE BY OTHERS

APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM SYSTEM FOR ALL SITES. THE FIRE ALARM SYSTEM AND COMPONENTS MAYBE REQUIRED TO BE CHANGED DUE TO EXISTING CONDITIONS OR INCOMPATIBLE COMPONENTS.

CONDUIT FILL AND CONDUCTOR CAPACITY TABLE

(ALL CONDUCTORS SHALL BE TYPE THHN/THWN 75 DEG. C. COPPER)

WIRE SIZE	CAPACITY	WIRE TYPE	NO. OF CONDUCTOR 1/2" C	3/4" C	1" C	1 1/4" C
#12	20A	THHN	9	16	25	45
#10	30A	THHN	5	10	16	28
#8	45A	THHN	2	5	8	14
#6	65A	THHN	1	3	5	10
#4	85A	THHN	1	2	4	7

JUNCTION BOX SIZE TABLE

BOX	SIZE	CU. IN.	MAX NO. OF CONDUCTORS #12	#10	#8	#6
4SS	1 1/4"x4" SQ	18.0	8	7	6	0
4S	1 1/2"x4" SQ	21.0	9	8	7	0
4SD	2 1/8"x4" SQ	30.3	13	12	10	6
4SX	2 7/8"x4" SQ	43.5	23	21	17	10
5SD	2 1/8"x4-11/16" SQ	42.0	18	16	14	6
5SX	3 7/8"x4-11/16" SQ	86.0	38	34	28	17
664	4"x6" SQ	144.0	64	57	48	28

* DEDUCT ONE CONDUCTOR FOR (1) OR MORE GROUNDING CONDUCTORS ENTERING THE BOX

PROJECT SPECIFIC STATE AGENCY APPROVAL

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11590 W BERNARDO COURT, SUITE 100
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PROFESSIONAL STAMP

02/16/24

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CLIENT

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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
ELECTRICAL PLAN
48x40 thru 120x40

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE

SHEET NO.
E1.4
SHEET OF

6/15/2021 11:52:17 PM C:\Users\User\Documents\20093 - Aries, 24x40 PC - MainFile - Low Seismic_6_7_CES\AR24D63.rvt

PANEL A= 100A	120/208 VOLTS, 1ϕ, 3 WIRE			MAIN LUGS ONLY						
	LOADCENTER	RECESSED					GRD & NEUTRAL BARS		AMP BUS	
	VOLTAMPS			10000 AIC			VOLTAMPS			
DESCRIPTION	ϕ A	ϕ B	C/B	CKT	ϕ	CKT	C/B	ϕA	ϕ B	DESCRIPTION
AC WALL MOUNTED- 4 TON	7360		30	1	A	2	20	1080		OUTLETS
		7360	30	3	B	4	20		180	EXTERIOR GFI WP/GC
GENERAL LIGHTING/FAN	1020		20	5	A	6	20	180		ROOF GFI WPGC
EXTERIOR LIGHTING		40	20	7	B	8	20			
			20	9	B	10	20			
DED SOLAR READY										
DED SOLAR READY										
SUBTOTAL	ϕ A 8560	ϕ B 7400						ϕ A 1260	ϕ B 180	SUBTOTAL
TOTAL	9820	7580	9820/120 VOLTS= 81.84 A 81.84 + 1.07= 91.91							

2 *1" = 1'-0"*
ELECTRICAL PANEL_A

PANEL A= 100A	120/208 VOLTS, 1ϕ, 3 WIRE			MAIN LUGS ONLY						
	LOADCENTER	RECESSED					GRD & NEUTRAL BARS		AMP BUS	
	VOLTAMPS			10000 AIC			VOLTAMPS			
DESCRIPTION	ϕ A	ϕ B	C/B	CKT	ϕ	CKT	C/B	ϕA	ϕ B	DESCRIPTION
AC ROOF MOUNTED- 4 TON	7360		30	1	A	2	20	1080		OUTLETS
		7360	30	3	B	4	20		180	EXTERIOR GFI WP/GC
GENERAL LIGHTING/FAN	1020		20	5	A	6	20	180		ROOF GFI WPGC
EXTERIOR LIGHTING		40	20	7	B	8	20			
BATH GFI	180		20	9	B	10	20			
DED SOLAR READY										
DED SOLAR READY										
SUBTOTAL	ϕ A 8560	ϕ B 7400						ϕ A 1260	ϕ B 180	SUBTOTAL
TOTAL	9820	7580	9820/120 VOLTS= 81.84 A 81.84 + 1.07= 91.91							

3 *1" = 1'-0"*
ELECTRICAL PANEL_B

LEGEND

ELECTRICAL PANEL AT +60" AFF TO TOP OF ELECTRICAL PANEL WITH 1 1/2" DIA POWER STUB OUT

ROOF MOUNTED HVAC UNIT-SEE MECHANICAL DWGS

WALL MOUNTED HVAC UNIT, SEE MECHANICAL DWGS

100 CFM CEILING MOUNTED EXHAUST FAN. INTERLOCKED WITH LIGHT SWITCH

HM — 4SD J-BOX FOR WATER HEATER LOCATE ABOVE CEILING W/ COVER PLATE, HARD WIRE TO UNIT

H — 4SD J-BOX IN ATTIC FOR ATTIC MOUNTED HEAT DETECTOR (DEVICE BY OTHERS). MAXIMUM 35'-0" FROM ANY POINT IN ATTIC BUT NOT MORE THAN 25'-0" FROM TWO PERPENDICULAR WALL AND 50'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO HEAT DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)

S — 4SD J-BOX IN ATTIC FOR CEILING MOUNTED SMOKE DETECTOR (DEVICE BY OTHERS). MAXIMUM 21'-0" FROM ANY POINT IN ROOM BUT NOT MORE THAN 15'-0" TO A PERPENDICULAR WALL AND 30'-0" BETWEEN THEM. PROVIDE A 6'-0" CONDUIT FROM EACH J-BOX TO SMOKE DETECTOR LOCATION. CONDUIT & CONNECTION TO CEILING DEVICE & DEVICE BY OTHERS (ALARM NOTE #1)

RECESSED 4SD J-BOX W/ COVER PLATE FOR FUTURE FIRE ALARM SYSTEM BY OTHERS. MOUNT AT +18" AFF U.O.N. TO CENTERLINE OF BOX AND PROVIDE 1" CO STUB TO ATTIC SPACE WITH PULLSTRING

H — 4SD J-BOX FOR EXTERIOR FIRE ALARM HORN (DEVICE BY OTHERS). MOUNT AT +90" AFF TO TOP OF DEVICE WITH 3/4" CONDUIT STUBBED TO ATTIC WITH PULLSTRING

4SD J-BOX/SINGLE GANG MUD RING FOR FIRE ALARM STROBE (DEVICE BY OTHERS). BOTTOM OF LENS 80" MIN TOP OF LENS 96" MAX AFF WITH 3/4"CONDUIT TO EXTERIOR FIRE ALARM HORN WITH PULLSTRING

4SD J-BOX/ SINGLE GANG MUD RING FOR FIRE ALARM PULL STATION (DEVICE BY OTHERS). MOUNT AT +48" AFF TO TOP OF CONTROL BOX WITH 3/4" CONDUIT TO FIRE ALARM STROBE WITH PULLSTRING

EXIT — EXIT SIGN WITH BATTERY BACK UP. EXIT SIGN REQUIRED FOR CLASSROOMS WITH TWO OR MORE EXTERIOR DOORS. FLS 90' BACK UP. CLASSROOMS WITH ONE EXTERIOR DOOR-OPTIONAL.

CLOCK OUTLET AT +90" AFF TO CENTERLINE OF DEVICE

EXTERIOR LED LIGHT FIXTURE. 30w MAX WITH PHOTOCELL MOUNT AT +93" AFF

ROOF — ROOF MOUNTED WEATHER PROOF GFI RECEPTACLE

GFI — GROUND FAULT CIRCUIT INTERRUPT RECEPTACLE WITHIN 6'-0" OF ALL SINKS

WP — EXTERIOR WEATHER PROOF GFI RECEPTACLE AT +24" AFF FOR A/C SERVICES (MAX 25'-0" FROM UNITS)

DUPLEX (WALL MOUNTED) RECEPTACLE 15A-125V-3 WIRE. MOUNT AT +15" AFF U.O.N. TO BOTTOM OF OUTLET BOX

MIN. + 15" TO BOTTOM OF BOX

$3 — 3-WAY LIGHT SWITCH. MOUNT AT+48" AFF TO TOP OF SWITCH BOX

$ — LIGHT SWITCH. MOUNT AT+48" AFF TO TOP OF SWTICH BOX

$D — SINGLE BUTTON DIMMER SWITCH, AT +48" AFF, TO TOP OF SWITCH BOX, WATTSTOPPER #LMDM-101 OR EQUAL

WS-1 — SINGLE SWITCH WALL OCCUPANCY SENSOR. WATTSTOPPER PW-100 OR EQUAL. SENSOR TO BE MOUNTED AT +44" AFF AND USE FOR OPEN ROOM (OR RESTROOM) LESS THAN 100 SQ FT W/ (1) CIRCUIT.

US — ULTRASONIC CEILING OCCUPANCY SENSOR. WATTSTOPPER W-500A OR EQUAL. SENSOR TO BE CONNECTED TO KEYED LIGHT SWITCHES FOR MANUAL OVERRIDE AND USE FOR RESTROOM W/ PARTITIONS.

PC — CEILING MOUNTED PHOTOCELL, WATTSTOPPER #LMLS-500 OR EQUAL

OS — CEILING MOUNTED OCCUPANCY SENSOR. WATTSTOPPER #LMPC-100 OR EQUAL.

2x4 CEILING LIGHT WITH (3) LED PANELIGHT, LAY-IN LIGHT FIXTURE WITH DIMMABLE BALLAST
DIMI LIGHTING-MODEL DM-P72448W-40K-ZZ
WATTAGE: 48W (48" LG) OR EQUAL

2x4 CEILING LIGHT WITH (3) LED PANELIGHT, LAY-IN LIGHT FIXTURE WITH DIMMABLE BALLAST
DIMI LIGHTING-MODEL DM-P72448W-40K-ZZ
WATTAGE: 48W (48" LG) OR EQUAL
EACH LIGHT FIXTURE WHICH IS INDICATED AS BEING AN EMERGENCY LIGHT SHALL HAVE A BALLAST BATTERY PACK INSTALLED ON THE FIXTURE. THE BATTERY PACK SHALL PROVIDE POWER TO A SINGLE LAMP WITHIN THE FIXTURE FOR NO LESS THAN 90 MINUTES. ANY LIGHT FIXTURE Equipped WITH A BATTERY PACK SHALL BE WIRED IN SUCH A MANNER THAT THE BATTERY WILL BE ACTIVATED IMMEDIATELY UPON LOSS OF POWER TO THE FIXTURE. ADDITIONALLY THE BATTERY PACK SHALL BE OPERATED USING BATTERY POWER LIGHTING CONTROL SWITCHES AND SENSORS SHALL NOT BE ABLE TO SHUT THE FIXTURE OFF.

NOTE: SEE 4/A3.2 FOR PHOTOMETRIC DATA

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PROFESSIONAL STAMP

RST#22088

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APP: 04-123059 PC
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SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

ELECTRICAL SCHEDULE 48x40

PROJECT NUMBER 22088

DRAWN BY rMc/SC

CHECKED BY RH/RT

DATE

SHEET NO. E1.5

SHEET OF

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ABB.	DESCRIPTION	SYMBOL
WM	WALL MOUNTED UNIT (SEE SCHEDULE THIS SHEET)	WM-1
RM	ROOF MOUNTED UNIT (SEE SCHEDULE THIS SHEET)	RM-1
P.O.C	POINT OF CONNECTION	P.O.C
CO	CARBON MONOXIDE SENSOR	CO
BT	BYPASS TIMER	BT
STAT	THERMOSTAT	T
UC	UNDERCUT DOOR	UC
MVD	MANUAL VOLUME DAMPER	
FD	FIRE DAMPER	
VTR	VENT THRU ROOF	
ER	EXHAUST CEILING REGISTER	
CR	RETURN CEILING REGISTER	
CD	SUPPLY CEILING DIFFUSER	
(L)	LINED DUCTWORK	
EAD	EXHAUST AIR DUCT	
RAD	RETURN AIR DUCT	
SAD	SUPPLY AIR DUCT	
EF	EXHAUST FAN	EF -
CO2	CARBON DIOXIDE SENSOR	CO2

1 ***1" = 1'-0"***
LEGEND

CEILING MOUNTED EXHAUST FAN

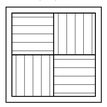
SYM.	USE	MFR/MODEL	CFM	SOUND LEVEL	SP	VOLTS	Ø	POWER	WGT#	NOTES
EF A	BATHROOM EXHAUST	*BROAN L100	109	1.0 SONES	0.25	120	1	87 WATTS	22.80#	WITH BROAN ROOF CAP #634. PROVIDE 6" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH.
EF B	BATHROOM EXHAUST	*BROAN L200	210	2.0 SONES	0.25	120	1	127 WATTS	23#	WITH BROAN ROOF CAP #634. PROVIDE 8" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH.
EF C	BATHROOM EXHAUST	*BROAN L300	308	2.8 SONES	0.25	120	1	212 WATTS	23.10#	WITH BROAN ROOF CAP #634. PROVIDE 8" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH.
EF D	BATHROOM EXHAUST	*BROAN 676	100	4.0 SONES	0.25	120	1	156 WATTS	7#	WITH BROAN ROOF CAP #636. PROVIDE 4" DIA. EXHAUST DUCT UP TO ROOF. INTERLOCK WITH LIGHT SWITCH.

*OR APPROVED EQUAL.

2 ***1" = 1'-0"***
CEILING MOUNTED EXHAUST FAN SCHEDULE

PERFORATED FACE GRILLE SCHEDULE (SUPPLY)

16x16-4W



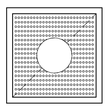
T-BAR SUPPLY

Fixed Curve Blade, 4-way throw
(WITH INTEGRAL DAMPER)

NECK SIZE	CFM (RANGE)	NOTES
6"Ø	0-150	SEE DETAIL FOR MAKE AND MODEL
8"Ø	150-230	SEE DETAIL FOR MAKE AND MODEL
10"Ø	230-350	SEE DETAIL FOR MAKE AND MODEL
12"Ø	350-460	SEE DETAIL FOR MAKE AND MODEL
14"Ø	460-640	SEE DETAIL FOR MAKE AND MODEL

3 ***1" = 1'-0"***
PFG SCHED (SUPPLY)

PERFORATED FACE GRILLE SCHEDULE (RETURN)



T-BAR RETURN

Perforated Face
Shoemaker 105P with 24 ga. 45 deg.

NECK SIZE	CFM (RANGE)	NOTES
6"Ø	0-230	SEE MECH CLG PLAN FOR SIZE
10"Ø	230-460	SEE MECH CLG PLAN FOR SIZE
12"Ø	350-460	SEE MECH CLG PLAN FOR SIZE
14"Ø	460-710	SEE MECH CLG PLAN FOR SIZE
16"Ø	277-1664	SEE MECH CLG PLAN FOR SIZE

TESTS TO BE COMPLETED ON NEWLY INSTALLED OR REPLACEMENT OF MECHANICAL SYSTEMS BEFORE PROJECT COMPLETION PER THE CALIFORNIA ENERGY CODE SECTION 10-103. ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED ACCEPTANCE TEST TECHNICIAN(ATT). THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES CORRECTED UNTIL THE INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA. COMPLETED NRCA FORMS SHALL BE SUBMITTED TO THE PROJECT INSPECTOR AND THE DISTRICT.

4 ***1" = 1'-0"***
PFG SCHED (RETURN)

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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.

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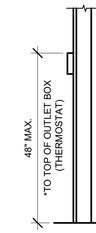
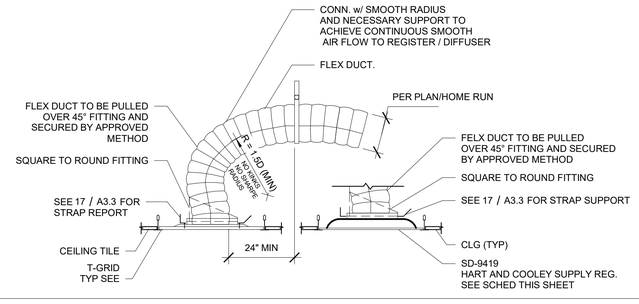
MP☐ MD☐ PP☐ E ☐OPTION 2: SHALL COMPLY WITH HCAI PREAPPROVAL (OPM #) #_____.

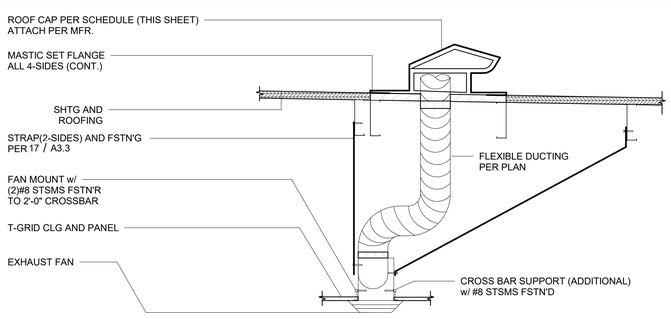
5 ***1" = 1'-0"***
EQUIPMENT ANCHORAGE



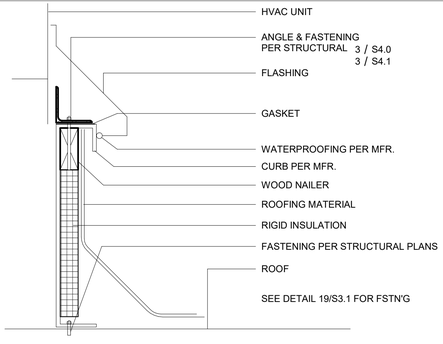
* 30"x48" MIN CLR FLOOR SPACE AT EACH LOCATION FOR PERPENDICULAR APPROACH

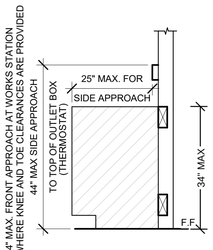
9 ***1" = 1'-0"***
MOUNTING ELEV.





SEE ISOMETRIC DETAIL 17/A3.3 FOR STRAPS





* SEE DETAIL 2/M0.2

10 ***1" = 1'-0"***
ELEV. @ WORKSTATION

10.6 EER and 11 EER

SINGLE PACKAGE VERTICAL HEAT PUMP SCHEDULE

	STANDARD	OPTION #I
TAG	WM-1	WM-1
NOMINAL TONNAGE	3.0 TONS	4.0 TONS
MANUFACTURER	**BARD	**BARD
MODEL#	W36HB-A	W48HC-A
CFM	1150	1500
STATIC PRESSURE	0.15	0.2
MIN OSA	365	548
DRIVE	DIRECT	DIRECT
MCA	20.4	58
MOCP	30	60
VOLTAGE	208/230-1	208/230-1
WIRE SIZE (PWR/GRND)	#6/#10	#6/#10
DESIGN RETURN AIR (DB/WB)	80/67	80/67
SENSIBLE COOLING @ 95° F (PART/FULL)	24.00/28.00	25.900/36.00
TOTAL COOLING @ 95° F (PART/FULL)	32.00/36.00	34.000/45.500
HEATING CAP. BTUH @ 47° F (PART/FULL)	29.200/32.200	29.200/41.500
HEATING CAP. BTUH @ 17° F	20.000	26.000
OPERATING WEIGHT	380#	550#
EER	11.10	11.00
COP @ 47° F	3.30	3.00
COP @ 17° F	-	2.00

14 SEER

SINGLE PACKAGE ROOF TOP HEAT PUMP SCHEDULE

	STANDARD	OPTION #I
TAG	RM-1	RM-1
NOMINAL TONNAGE	3.0 TONS	4 TONS
MANUFACTURER	**CARRIER	**CARRIER
MODEL#	50VTC48	50VTC48
CFM	1200	1500
STATIC PRESSURE	0.15	0.4
MIN OSA	365	548
DRIVE	BELT	BELT
MCA	59	64
MOCP	60	74
VOLTAGE	208/230-1	208/230-1
WIRE SIZE (PWR/GRND)	#6/#10	#4/#8
DESIGN RETURN AIR (DB/WB)	80/67	80/67
SENSIBLE COOLING @ 95° F	30.500	35.260
TOTAL COOLING @ 95° F	35.600	49.600
HEATING CAP. BTUH @ 47° F	35.500	45.5000
HEATING CAP. BTUH @ 17° F	18.400	28.600
OPERATING WEIGHT	572#	560#
SEER	14.00	14.00
HSPF	8.1	8.0
COP @ 47° F	3.4	3.4
COP @ 17° F	2.3	2.4

ATTACHMENT 3: Mechanical Equipment List

This attachment summarizes all the HVAC equipment and controls required for each size modular building.

Indicate NA for all non-applicable boxes.

LIST OF MECHANICAL EQUIPMENT					
Any substitutions of equipment made to the approved PC must be equal or better than the equipment listed below.					
Modular size and equipment type					Responsible for programming/commissioning (builder or HVAC contractor)
HVAC Equipment Make and Model Quantity per ID on Plans					NA
HVAC Equipment Efficiency Cooling Heating Phase					NA
BTUH Heating Cooling					NA
Indoor/Blower Fan Belt or Direct Drive CFM @ 0.7 inch WC					NA
Economizer Maximum allowed or Not Allowed if not modeled					NA
Thermostat (Sensor) Make and Model: Setback – § 120.2(c) Heat Pump – § 110.2(h)					(Responsible Person) Required Acceptance Test NRCA-MCH-03-A
Shut-off and Reset Make and Model: Occupancy Sensor or 4 hr override – § 120.2(e)					(Responsible Person) Required Acceptance Test NRCA-MCH-03-A
Economizer Controls Make and Model – § 140.4(e)					(Responsible Person) Required Acceptance Test NRCA-MCH-02-A and 05-A
Economizer Controls Make and Model – § 140.4(e)					(Responsible Person) Required Acceptance Test NRCA-MCH-02-A and 05-A
Economizer Fault Detection Software Make and Model: § 120.2(i)					(Responsible Person) Required Acceptance Test NRCA-MCH-12-A or 13-A
Outside Air In CFM from T24 - § 120.1(c)3					(Responsible Person) Required Acceptance Test NRCA-MCH-02-A
Ventilation Kit If economizer is not used specify Make and Model:					(Responsible Person) Required Acceptance Test NRCA-MCH-02-A
Demand Control Ventilation CO2 Sensor with ppm display Make and Model - §120.1(d)4					(Responsible Person) Required Acceptance Test NRCA-MCH-06-A
Minimum OCV Outside Air in CFM : 15 X conditioned floor area – § 120.1(d)4i					(Responsible Person) Required Acceptance Test NRCA-MCH-02-A
Demand Shed Thermostat or Controls Make Model If DSC to the zone § 120.2(h)1					(Responsible Person) Required Acceptance Test NRCA-MCH-11-A

HVAC SCHEDULE

BUILDING SIZE	# OF HVAC: 3 1/2 TON HVAC	# OF HVAC: 4 TON HVAC
☐ 24' x 40'	1	
☐ 36' x 40'		1
☐ 48' x 40'	2	
☐ 60' x 40'		2
☐ 72' x 40'	3	
☐ 84' x 40'		3
☐ 96' x 40'	4	
☐ 108' x 40'		4
☐ 120' x 40'	5	

MERV 13 AND 2-INCH DEPTH PER ENERGY CODE 120.1(C)1. FILTERS REQ'D FOR ALL UNITS

HVAC NOTES
1. SET BACK THERMOSTAT SHALL BE PROVIDED
2. MINIMUM OUTSIDE AIR 15 CFM PER OCCUPANT AND THE UNIT SHALL UTILIZE DEMAND CONTROL VENTILATION
3. MODEL NUMBERS FOR HEAT PUMP UNITS WITH OPTIONAL 5.0 AUXILIARY HEAT STRIPS, WHEN THE HEAT STRIP IS NOT USED, THE MCA AND MOCP MUST BE VERIFIED AND HEAT STRIPS LARGER THAN THE SIZES SHOWN MAY NOT BE USED.

120.1(D)
THERMOSTAT SHALL BE PROGRAMED WITH EXPECTED OCCUPIED TIMES.AIR HANDLER FAN WILL BE PROGRAMED TO RUN DURING ALL OCCUPIED TIMES.PRE-OCCUPANCY PURGE SHALL BE PROGRAMED ONE HOUR PRIOR TO THE MODULAR BUILDING BEING NORMALLY OCCUPIED.

FOR ROOF MOUNTED HVAC UNITS A GASKET SHALL BE PLACED BETWEEN THE CURB AND THE HVAC UNIT.MASTIC SEALANT SHALL BE USED TO SEAL ALL SEAMS BETWEEN THE HVAC UNIT AND THE CURB. THE SUPPLY AND RETURN DUCTS SHALL BE ATTACHED TO THE CURB AND MASTIC SHALL BE USED TO SEAL THE DUCTS TO THE CURB. THE SUPPLY AND RETURN DUCTS SHALL BE THE SAME SIZE AND ALIGN WITH THE HVAC UNIT.

FLEXIBLE AIR DUCTS AND CONNECTORS SHALL BE NOT MORE THAN 5 FEET IN LENGTH AND SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS. FLEXIBLE AIR DUCTS SHALL BE PERMITTED TO BE USED AS AN ELBOW AT A TERMINAL DEVICE PER ENERGY CODE 120.4.

DUCT INSTALLATION AND PLENUMS SHALL MEET THE REQUIREMENTS OF ENERGY CODE SECTION 120.4 AND THE MANUFACTURERS INSTALLATION INSTRUCTIONS.
HORIZONTAL FLEX DUCT SHALL BE SUPPORTED AT A MAXIMUM 4 FT INTERVALS, WITH HANGING STRAPS A MINIMUM 1 1/2 IN. WIDE.
DUCTS MUST BE PULLED TIGHT WITH A MAXIMUM SAG OF ½" PER FOOT OF HORIZONTAL RUN.
DUCT SHALL NOT BE KINKED OR CRUSHED.
BEND/RADIUS EQUAL TO THE DUCT DIAMETER OR GREATER.

SECTION 915
CARBON MONOXIDE DETECTION

915.2.3 Group E occupancies. Carbon monoxide detection shall be installed in classrooms in Group E occupancies. Carbon monoxide alarm signals shall be automatically transmitted to an on-site location that is staffed byschool personnel.

915.3 Detection equipment. Carbon monoxide detection required by Sections 915.1 through 915.2.3 shall be provided by carbon monoxide alarms complying with Section 915.4 or carbon monoxide detection systems complying with Section 915.5.

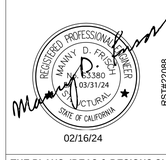
CFC 915.1 - Classrooms which contain a fuel-burning appliance or a fuel-burning fireplace or are supplied by a forced-air furnace shall be provided with a carbon monoxide detexction system. Provide a carbon monoxide detection system

GENERAL NOTE:
UTILILITIES THAT SPAN BETWEEN UNITS OR ACROSS SEISMIC SEPARATION JOINTS MUST BE DESIGNED WITH A FLEXIBLE CONNECTION THAT CAN ACCOMMODATE DIFFERENTIAL MOVEMENTS

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ★ CONSULTING ★ PROJECT MGT
11590 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP



02/16/24

THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEVISED SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. ©

CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
MISCELLANEOUS NOTES & DETAILS

PROJECT NUMBER
22088

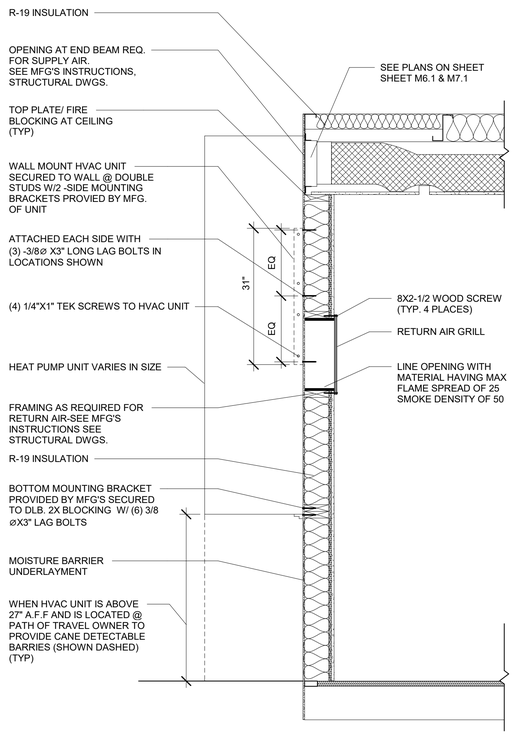
DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE

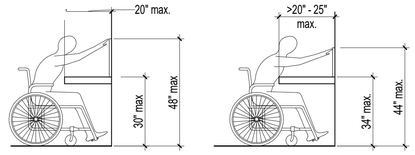
SHEET NO.
M0.1
SHEET OF

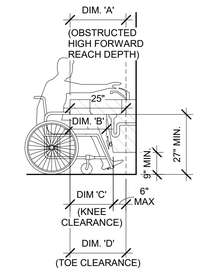
C:\Users\User\Documents\20093 - Aries, 24x40 PC - MainFile - Low Seismic_6.7_CESAR24D63.rvt
6/15/2021 11:53:12 PM



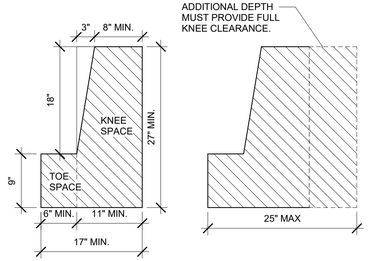
1 ***3/4" = 1'-0"***
HVAC @ WALL SECTION

FIGURE 308.2.2. OBSTRUCTED HIGH FORWARD REACH





DIM. 'A'	DIM. 'B'	DIM. 'C'	DIM. 'D'
17"	8"	11"	17"
18"	9"	12"	18"
,19"	10"	13"	19"
20"	11"	14"	20"
21"	12"	15"	21"
22"	13"	16"	22"
23"	14"	17"	23"
24"	15"	18"	24"
25"	16"	19"	25"



2 ***TOE SPACE CLEARANCE***

120.1(D)
THERMOSTAT SHALL BE PROGRAMED WITH EXPECTED OCCUPIED TIMES.AIR HANDLER FAN WILL BE PROGRAMED TO RUN DURING ALL OCCUPIED TIMES.PRE-OCCUPANCY PURGE SHALL BE PROGRAMED ONE HOUR PRIOR TO THE MODULAR BUILDING BEING NORMALLY OCCUPIED.

FOR ROOF MOUNTED HVAC UNITS A GASKET SHALL BE PLACED BETWEEN THE CURB AND THE HVAC UNIT.MASTIC SEALANT SHALL BE USED TO SEAL ALL SEAMS BETWEEN THE HVAC UNIT AND THE CURB. THE SUPPLY AND RETURN DUCTS SHALL BE ATTACHED TO THE CURB AND MASTIC SHALL BE USED TO SEAL THE DUCTS TO THE CURB. THE SUPPLY AND RETURN DUCTS SHALL BE THE SAME SIZE AND ALIGN WITH THE HVAC UNIT.

FLEXIBLE AIR DUCTS AND CONNECTORS SHALL BE NOT MORE THAN 5 FEET IN LENGTH AND SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS. FLEXIBLE AIR DUCTS SHALL BE PERMITTED TO BE USED AS AN ELBOW AT A TERMINAL DEVICE PER ENERGY CODE 120.4.

DUCT INSTALLATION AND PLENUMS SHALL MEET THE REQUIREMENTS OF ENERGY CODE SECTION 120.4 AND THE MANUFACTURERS INSTALLATION INSTRUCTIONS.
HORIZONTAL FLEX DUCT SHALL BE SUPPORTED AT A MAXIMUM 4 FT INTERVALS, WITH HANGING STRAPS A MINIMUM 1 1/2 IN. WIDE.
DUCTS MUST BE PULLED TIGHT WITH A MAXIMUM SAG OF ½" PER FOOT OF HORIZONTAL RUN.
DUCT SHALL NOT BE KINKED OR CRUSHED.
BEND/RADIUS EQUAL TO THE DUCT DIAMETER OR GREATER.

UPON SITE PLACEMENT OR SITE CONSTRUCTION, THE OPERATION AND MAINTENANCE DOCUMENTATION FOR ALL MECHANICAL AND LIGHTING SYSTEMS AND CONTROLS SHALL BE PROVIDED BY THE MODULAR BUILDING MANUFACTURER, OR THE GENERAL CONTRACTOR FOR THE PERMANENT MODULAR RELOCATABLE BUILDING AND DELIVERED TO THE OWNER.

AT THE TIME OF ROUGH INSTALLATION, DURING IN THE FACTORY OR ON THE CONSTRUCTION SITE, DURING SHIPMENT (IF APPLICABLE) AND UNTIL FINAL STARTUP OF THE HEATING COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED DISTRIBUTION COMPONENT OPENINGS SHALL BE PROCTED TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM

3 ***1/4" = 1'-0"***
MECHANICAL NOTES

ATTACHMENT 3: Mechanical Equipment List

This attachment summarizes all the HVAC equipment and controls required for each size modular building.

Indicate NA for all non-applicable boxes.

LIST OF MECHANICAL EQUIPMENT

Any substitutions of equipment made to the approved PC must be equal or better than the equipment listed below.

Modular size and equipment type	4.0 TON WM HVAC	5.0 TON WM HVAC	3 TON WM HVAC	Responsible for programing/commissioning (builder or HVAC contractor)
HVAC Equipment Make and Model	BARD W46HC-A	BARD W60H1	BARD W36 HB	NA
BTUH Heating Cooling	41,500 45,500	51,000 55,500	38,500 40,000	NA
Indoor/Blower Fan BHP/HP CFM @ at ? inch WC	1/3-825-2 2.5 24"-2900	1/3-825-2 4.1 24"-3700	1/3-825-2 2.5 24"-2900	NA
Strip Heating Maximum allowed or Not Allowed if not modeled	PER TITLE 24	PER TITLE 24	PER TITLE 24	NA
Minimum allowed SEER, EER, HSPF and/or COP, and Phase	14, 11, 3.40, 3	14, 11, 3.30 ,3	14, 11, 3.40, 3	NA
Thermostat Make and Model Setback – § 110.2(c) Heat Pumps – § 110.2(b)	BARD #8403-061 C48H1	BARD #8403-061 C60H1	BARD #8403-061 C42H1	(Responsible Person) Required Acceptance Test NRCA-MCH-03-A
Shut-off and Reset Make and Model Occupancy Sensor or 4 hr override – § 120.2(e)	STANDARD BUILT-IN	STANDARD BUILT-IN	STANDARD BUILT-IN	(Responsible Person) Required Acceptance Test NRCA-MCH-03-A
Economizer Equipment Make and Model – § 140.4(e)	ECON-NC5	ECON-NC5	ECON-NC5	(Responsible Person) Required Acceptance Test NRCA-MCH-02-A and 05-A
Economizer Controls Make and Model – § 140.4(e)	ECON-WD5	ECON-WD5	ECON-WD5	(Responsible Person) Required Acceptance Test NRCA-MCH-02-A and 05-A
Economizer Fault Detection Software Make and Model - § 120.2(i)	ECON-DB5	ECON-DB5	ECON-DB5	(Responsible Person) Required Acceptance Test NRCA-MCH-12-A or 13-A
Outside Air In CFM - § 120.1(c)3	PER TITLE 24	PER TITLE 24	PER TITLE 24	(Responsible Person) Required Acceptance Test NRCA-MCH-02-A
Ventilation Kit If economizer is not installed specify Make and Model.	N/A	N/A	N/A	(Responsible Person) Required Acceptance Test NRCA-MCH-02-A
Demand Control Ventilation Co2 Sensor with ppm display Make and Model - §120.1(d)4	PER BARD SPECIFICAIONS	PER BARD SPECIFICAIONS	PER BARD SPECIFICAIONS	(Responsible Person) Required Acceptance Test NRCA-MCH-06-A
Minimum Designed Outside Air in CFM - § 120.1(c)3	PER TITLE 24	PER TITLE 24	PER TITLE 24	(Responsible Person) Required Acceptance Test NRCA-MCH-02-A
Demand Shed Thermostat Make Model If DDC to the zone § 120.2(h)				(Responsible Person) Required Acceptance Test NRCA-MCH-11-A

NOTE: SEE M0.1 AND CUT SHEETS FOR ADDITIONAL EQUIPMENT OPTIONS

SEQUENCE OF OPERATIONS

BARD W48HC-A

Sequence of Operation

Cooling

Circuit R-Y1 makes at thermostat pulling in compressor contactor, starting the compressor and outdoor motor. (See ***NOTE*** under **Condenser Fan Operation** concerning models equipped with low ambient control.) The G (indoor motor) circuit is automatically completed by the thermostat on any call for cooling operation or can be energized by manual fan switch on subbase for constant air circulation. On a call for 2nd stage heating, circuit R-W2 makes at the thermostat pulling in heat contactor for the strip heat and blower operation. On a call for third stage heat, R-W3 makes bringing on second heat contactor, if so equipped.

Heating

A 24V solenoid coil on reversing valve controls heating cycle operation. Two thermostat options, one allowing "Auto" changeover from cycle to cycle and the other constantly energizing solenoid coil during heating season—thus eliminating pressure equalization noise except during defrost, are to be used.

On "Auto" option, a circuit is completed from R-B/W1 and R-Y1 on each heating "on" cycle, energizing reversing valve solenoid and pulling in compressor contactor, starting compressor and outdoor motor. R-G also make starting indoor blower motor. Heat pump heating cycle now in operation.

The second option has no "Auto" changeover position, but instead energizes the reversing valve solenoid constantly whenever the system switch on subbase is placed in "Heat" position, the "B" terminal being constantly energized from R. A thermostat demand for heat completes R-Y1 circuit, pulling in compressor contactor starting compressor and outdoor motor. R-G also make starting indoor blower motor.

On a call for 2nd stage heating, circuit R-W2 makes at the thermostat pulling in the heat contactor for the strip heat and blower operation. On a call for third stage heat, R-B/W1 breaks, dropping out heat pump, and R-W3 makes, bringing on second heat contactor, if so equipped.

Balanced Climate™ Mode

Balanced Climate™ is a great comfort feature that can easily be applied under any normal circumstances. If the Bard air conditioning system is being set up in a typical environment where 72°F is the lowest cooling setpoint, remove the Y1/Y2 jumper and install a 2-stage cooling thermostat. This will increase the humidity removal up to 35% and provide a much more comfortable environment. This mode will also increase the supply temperature when in heating mode. When Balanced Climate mode is activated, it is employed in both heating and cooling modes.

NOTE: *Units with mechanical dehumidification require an additional connection to be made when enabling Balanced Climate. Refer to dehumidification supplemental instructions for this step.*

If the application is likely to require air conditioning operation below 60°F outdoor conditions, a low ambient control (LAC) kit must be installed. The LAC kit is equipped with an outdoor temperature switch that disables Balanced Climate mode when the outdoor temperature drops below 50°F. This prevents potential evaporator coil freeze up issues. The LAC kit also comes with an evaporator freeze protection thermostat that cuts out the compressor if the evaporator begins to freeze up.

If the unit is being installed with any ventilation package, a Bard LAC kit must be installed. Failure to utilize an LAC with any air conditioner can cause coil freeze up.

Balanced Climate can readily be applied to duct-free (supply and return air grille) applications. It may also be applied to ducted applications with **limited static of 0.20" ESP (total including both supply and return statics)**. Consult Bard Application Engineering for details prior to implementation.

CAUTION: *Balanced Climate is not a replacement for a dehumidification (hot gas reheat) unit for extreme applications, but rather an enhancement feature for limited climates and applications.*

BARD C60HC1 & C42HC1

Sequence of Operation

Cooling Stage 1 – Circuit R-Y makes at thermostat pulling in compressor contactor, starting the compressor and outdoor motor. The G (indoor motor) circuit is automatically completed on any call for cooling operation or can be energized by manual fan switch on subbase for constant air circulation.

Cooling Stage 2 – Circuit R-Y1 makes at the thermostat, energizing the 2nd stage solenoid in the compressor. Default position is not energized. Compressor will run at low capacity until this solenoid is energized.

Heating Stage 1 – A 24V solenoid coil on reversing valve controls heating cycle operation. Two thermostat options, one allowing "Auto" changeover from cycle to cycle and the other constantly energizing solenoid coil during heating season and thus eliminating pressure equalization noise except during defrost, are to be used. On "Auto" option, a circuit is completed from R-B and R-Y on each heating "on" cycle, energizing reversing valve solenoid and pulling in compressor contactor starting compressor and outdoor motor. R-G also make, starting indoor blower motor. Heat pump heating cycle now in operation. The second option has no "Auto" changeover position, but instead energizes the reversing valve solenoid constantly whenever the system switch on subbase is placed in "Heat" position, the "B" terminal being constantly energized from R. A thermostat demand for Stage 1 heat completes R-Y circuit, pulling in compressor contactor and starting compressor and outdoor motor. R-G also make, starting indoor blower motor.

Heating Stage 2 – Circuit R-Y2 makes at the thermostat, energizing the 2nd stage solenoid in the compressor.

Pressure Service Ports

High and low pressure service ports are installed on all units so that the system operating pressures can be observed. Pressure tables 6A and 6B cover all models. It is imperative to match the correct pressure table to the unit by model number.

This unit employs high-flow Coremax valves instead of the typical Shrader type valves.

WARNING! Do NOT use a Schrader valve core removal tool with these valves. Use of such a tool could result in eye injuries or refrigerant burns!

To change a Coremax valve without first removing the refrigerant, a special tool is required which can be obtained at www.fastestinc.com/en/SCCA07H. See the replacement parts manual for replacement core part numbers.

CARRIER 50VTC48L

OPERATION

Sequence of Operation—When free cooling is not available, the compressor will be controlled by the thermostat. When free cooling is available, the outdoor-air damper is modulated by the Economizer control to provide a 50° to 55°F (10° to 12.8°C) supply-air temperature into the zone. As the supply-air temperature fluctuates above 55° (12.8°C) or below 50°F (10°C), the dampers will be modulated (open or close) to bring the supply-air temperature back within the set points. For Economizer operation, there must be a thermostat call for the fan (G). This will move the damper to its minimum position during the occupied mode.

NOTE: The DCV Max potentiometer must be closed (CCW) when not using CO_2 sensor.

Above 50°F (10°C) supply-air temperature, the dampers will modulate from 100% open to the minimum open position. From 50°F to 45°F (10° to 7.2°C) supply-air temperature, the dampers will maintain at the minimum open position. Below 45°F (7.2°C), the dampers will be completely shut. As the supply-air temperature rises, the dampers will come back open to the minimum open position once the supply-air temperature rises to 48°F (8.9°C). If power exhaust is installed, as the outdoor-air damper opens and closes, the power exhaust fans will be energized and deenergized. If field-installed accessory CO_2 sensors are connected to the Economizer control, a demand controlled ventilation strategy will begin to operate. As the CO_2 level in the zone increases above the CO_2 set point, the minimum position of the damper will be increased proportionally. As the CO_2 level decreases because of the increase in fresh air, the outdoor-air damper will be proportionally closed. Damper position will follow the higher demand condition from DCV mode or free cooling mode. Damper movement from full closed to full open (or vice versa) will take between 1 1/2 and 2 1/2 minutes. If free cooling can be used as determined from the appropriate changeover command (dry bulb, enthalpy curve, or differential enthalpy), a call for cooling (Y1 closes at the thermostat) will cause the control to modulate the dampers open to maintain the supply air temperature set point at 50° to 55°F (10° to 12.8°C). As the supply air temperature drops below the set point range of 50° to 55°F (10° to 12.8°C), the control will modulate the outdoor-air dampers closed to maintain the proper supply-air temperature.

TABLE 140.4-E AIR ECONOMIZER HIGH LIMIT SHUT OFF CONTROL REQUIREMENTS

Device Type[a]	Climate Zones	Required High Limit (Economizer Off When): Equation[b]	Description
Fixed Dry Bulb	1, 3, 5, 11-16	$T_{OA} > 75°F$	Outdoor air temperature exceeds 75°F
	2, 4, 10	$T_{OA} > 73°F$	Outdoor air temperature exceeds 73°F
	6, 8, 9	$T_{OA} > 71°F$	Outdoor air temperature exceeds 71°F
	7	$T_{OA} > 69°F$	Outdoor air temperature exceeds 69°F
Differential Dry Bulb	1, 3, 5, 11-16	$T_{OA} > T_{RA}°F$	Outdoor air temperature exceeds return air temperature
	2, 4, 10	$T_{OA} > T_{RA}-2°F$	Outdoor air temperature exceeds return air temperature minus 2°F
	6, 8, 9	$T_{OA} > T_{RA}-4°F$	Outdoor air temperature exceeds return air temperature minus 4°F
	7	$T_{OA} > T_{RA}-6°F$	Outdoor air temperature exceeds return air temperature minus 6°F
Fixed Enthalpy[c] + Fixed Drybulb	All	$h_{OA} > 28$ Btu/lb[c] or $T_{OA} > 75°F$	Outdoor air enthalpy exceeds 28 Btu/lb of dry air[c] or Outdoor air temperature exceeds 75°F

[a] Only the high limit control devices listed are allowed to be used and at the setpoints listed. Others such as Dew Point, Fixed Enthalpy, Electronic Enthalpy, and Differential Enthalpy Controls, may not be used in any Climate Zone for compliance with Section 140.4(e)1 unless approval for use is provided by the Energy Commission Executive Director.

[b] Devices with selectable (rather than adjustable) setpoints shall be capable of being set to within 2°F and 2 Btu/lb of the setpoint listed.

[c] At altitudes substantially different than sea level, the Fixed Enthalpy limit value shall be set to the enthalpy value at 75°F and 50% relative humidity. As an example, at approximately 6,000 foot elevation, the fixed enthalpy limit is approximately 30.7 Btu/lb.

ALL ECONOMIZERS MUST BE PROGRAMMED IN THE FIELD BY THE HVAC CONTRACTOR TO THE TEMPERATURE IN TABLE 140.4-E

PC DESIGN REVIEW INFORMATION
Title 24, Part 6, Energy Code
DSA Application #: 04-121369
Calculation Date/Time of Energy Report: 2023-07-26 XX
Model Name and Option: 24'x40' PC (Wood Frame Walls)
Total Floor Area: 960 ft²
HVAC System Type: Wall Mounted A/C

Climate Zone 14 (Palmdale)

Azimuth (Front Orientation)		Standard Design	Proposed Design	Margin	Margin %	Worst Case
30°	TDV-E	366.40	297.14	69.26	***18.9028%***	
	TDV-T	366.40	297.14	69.26	***18.9028%***	
	SOURCE	36.24	30.65	5.59	***15.4249%***	
75°	TDV-E	358.72	295.30	63.42	***17.6795%***	**
	TDV-T	358.72	295.30	63.42	***17.6795%***	**
	SOURCE	35.63	30.56	5.07	***14.2296%***	**
120°	TDV-E	363.47	296.43	67.04	***18.4446%***	
	TDV-T	363.47	296.43	67.04	***18.4446%***	
	SOURCE	36.01	30.64	5.37	***14.9125%***	
165°	TDV-E	366.46	297.42	69.04	***18.8397%***	
	TDV-T	366.46	297.42	69.04	***18.8397%***	
	SOURCE	36.22	30.64	5.58	***15.4059%***	
210°	TDV-E	366.40	297.14	69.26	***18.9028%***	
	TDV-T	366.40	297.14	69.26	***18.9028%***	
	SOURCE	36.24	30.65	5.59	***15.4249%***	
255°	TDV-E	358.72	295.30	63.42	***17.6795%***	**
	TDV-T	358.72	295.30	63.42	***17.6795%***	**
	SOURCE	35.63	30.56	5.07	***14.2296%***	**
300°	TDV-E	363.47	296.44	67.03	***18.4417%***	
	TDV-T	363.47	296.44	67.03	***18.4417%***	
	SOURCE	36.01	30.64	5.37	***14.9125%***	
345°	TDV-E	366.46	297.42	69.04	***18.8397%***	
	TDV-T	366.46	297.42	69.04	***18.8397%***	
	SOURCE	36.22	30.64	5.58	***15.4059%***	

Climate Zone 15 (Palm Springs)

Azimuth (Front Orientation)		Standard Design	Proposed Design	Margin	Margin %	Worst Case
30°	TDV-E	378.51	303.65	74.86	***19.7775%***	
	TDV-T	378.51	303.65	74.86	***19.7775%***	
	SOURCE	33.26	26.66	6.60	***19.8437%***	
75°	TDV-E	369.92	301.77	68.15	***18.4229%***	**
	TDV-T	369.92	301.77	68.15	***18.4229%***	**
	SOURCE	32.57	26.55	6.02	***18.4831%***	**
120°	TDV-E	370.43	302.74	67.69	***18.2734%***	
	TDV-T	370.43	302.74	67.69	***18.2734%***	
	SOURCE	32.71	26.64	6.07	***18.5570%***	
165°	TDV-E	378.42	303.43	74.99	***19.8166%***	
	TDV-T	378.42	303.43	74.99	***19.8166%***	
	SOURCE	33.23	26.65	6.58	***19.8014%***	
210°	TDV-E	378.51	303.65	74.86	***19.7775%***	
	TDV-T	378.51	303.65	74.86	***19.7775%***	
	SOURCE	33.26	26.66	6.60	***19.8437%***	
255°	TDV-E	369.92	301.77	68.15	***18.4229%***	**
	TDV-T	369.92	301.77	68.15	***18.4229%***	**
	SOURCE	32.57	26.55	6.02	***18.4831%***	**
300°	TDV-E	370.43	302.74	67.69	***18.2734%***	
	TDV-T	370.43	302.74	67.69	***18.2734%***	
	SOURCE	32.71	26.64	6.07	***18.5570%***	
345°	TDV-E	378.42	303.43	74.99	***19.8166%***	
	TDV-T	378.42	303.43	74.99	***19.8166%***	
	SOURCE	33.23	26.65	6.58	***19.8014%***	

Climate Zone 16 (Blue Canyon)

Azimuth (Front Orientation)		Standard Design	Proposed Design	Margin	Margin %	Worst Case
30°	TDV-E	307.24	278.52	28.72	***9.3477%***	**
	TDV-T	307.24	278.52	28.72	***9.3477%***	**
	SOURCE	54.83	41.05	13.78	***25.1322%***	**
75°	TDV-E	341.77	272.69	69.08	***20.2124%***	
	TDV-T	341.77	272.69	69.08	***20.2124%***	
	SOURCE	65.39	40.97	24.42	***37.3452%***	
120°	TDV-E	307.35	273.40	33.95	***11.0460%***	
	TDV-T	307.35	273.40	33.95	***11.0460%***	
	SOURCE	54.88	41.01	13.87	***25.2731%***	
165°	TDV-E	309.02	273.26	35.76	***11.5721%***	
	TDV-T	309.02	273.26	35.76	***11.5721%***	
	SOURCE	54.91	41.02	13.89	***25.2959%***	
210°	TDV-E	307.24	273.52	33.72	***10.9751%***	
	TDV-T	307.24	273.52	33.72	***10.9751%***	
	SOURCE	54.83	41.05	13.78	***25.1322%***	
255°	TDV-E	341.77	272.69	69.08	***20.2124%***	
	TDV-T	341.77	272.69	69.08	***20.2124%***	
	SOURCE	65.39	40.97	24.42	***37.3452%***	
300°	TDV-E	307.35	273.40	33.95	***11.0460%***	
	TDV-T	307.35	273.40	33.95	***11.0460%***	
	SOURCE	54.88	41.01	13.87	***25.2731%***	
345°	TDV-E	309.02	273.26	35.76	***11.5721%***	
	TDV-T	309.02	273.26	35.76	***11.5721%***	
	SOURCE	54.91	41.02	13.89	***25.2959%***	

Reference: Energy Code, Appendix NA4, Table NA4-3
* In the event that there are identical percentages, select one.
**This table is not currently generated by the energy software.
Least Compliance Margin Orientation

Notes:
<

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROFESSIONAL STAMP
REGISTERED PROFESSIONAL ENGINEER MANNY D. FRANCO No. 23380 03/31/24 CIVIL STRUCTURAL STATE OF CALIFORNIA
RST#22088
02/16/24

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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
MISCELLANEOUS NOTES & DETAILS

PROJECT NUMBER
22088

DRAWN BY
Author

CHECKED BY
Checker

DATE

SHEET NO.
M0.2
SHEET OF

BUILDING ENERGY ANALYSIS REPORT

PROJECT:
24X40 (PC 04-121369) - Wall AC
Climate Zone 14
Palmdale, CA

Project Designer:
R & S Tavares Associates
11590 W. Bernardo Court, Suite 100
San Diego, Ca. 92127

Report Prepared by:
LAL B. SAHGAL
LSA CONSULTING ENGINEERS
83, WINDSWEPT WAY
MISSION VIEJO, CA 92692
(949) 830-4746

Job Number:

Date:
7/26/2023

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2022 Building Energy Efficiency Standards.

This program developed by EnergySoft, LLC – www.energysoft.com.

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Form NRCC/LMCC-PRF-E Certificate of Compliance	3
HVAC System Heating and Cooling Loads Summary	20

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**
Nonresidential Performance Compliance Method — **(Page 1 of 17)**
Project Name: 24X40 (PC 04-121369) - Wall AC | **Date Prepared:** 2023-07-25

A. General Information

1	Project Name	24X40 (PC 04-121369) - Wall AC		
2	Run Title	Title 24 Analysis		
3	Project Location	Climate Zone 14		
4	City	Palmdale	5	Standards Version	Compliance 2022
6	Zip code	99999	7	Compliance Software (version)	EnergyPro 9.1
8	Climate Zone	14	9	Building Orientation (deg)	75
10	Building Type(s)	• Nonresidential	11	Weather File	PALMDALE_STYP20.epw
12	Project Scope	• New complete scope	13	Number of Dwelling Units	0
14	Total Conditioned Floor Area in Scope (ft²)	960	15	Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft²)	0	17	Fuel Type	Natural gas
18	Nonresidential Conditioned Floor Area	960	19	Total # of Stories (Habitable Above Grade)	1
20	Residential Conditioned Floor Area	0			

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**
Nonresidential Performance Compliance Method — **(Page 2 of 17)**

B. PROJECT SUMMARY

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 the permit application.

Building Components Complying via Performance						Building Components Complying Prescriptively	
Envelope (See Table G)	Nonres	Performance	Solar Thermal Water Heating (See Table I3)	☐	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).	
	MultiFam	Not Included		☒	Not Included		
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table J)	☐	Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
	MultiFam	Not Included		☒	Not Included	Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTO-E is required
Domestic Hot Water (See Table I)	Nonres	Not Included	Covered Process: Laboratory Exhaust (see Table J)	☐	Performance	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
	MultiFam	Not Included		☒	Not Included	**Building Components Complying with Mandatory Measures**	
Lighting (Indoor Conditioned, see Table K)	Nonres	Performance	Photovoltaics (see Table F)	☐	Performance	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)	
	MultiFam	Not Included		☒	Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Battery (see Table F)	☐	Performance	Commissioning 120.8	NRCC-CXR-E is required
				☒	Not Included	Solar and Battery 110.10	NRCC-SAB-E is required

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**
Nonresidential Performance Compliance Method — **(Page 3 of 17)**

C1. COMPLIANCE SUMMARY

	COMPLIES[3]		
	Time Dependent Valuaton (TDV)		Source Energy Use
	Efficiency[1] (kBtu/ft² - yr)	Total[2] (kBtu/ft² - yr)	Total[2] (kBtu/ft² - yr)
Standard Design	358.72	358.72	30.7
Proposed Design	295.31	295.31	25.64
Compliance Margins	**63.41**	**63.41**	**5.06**
	Pass	**Pass**	**Pass**

[1] *Efficiency measures include improvements like a better building envelope and more efficient equipment*
[2] *Compliance Totals include efficiency, photovoltaics and batteries*
[3] *Building complies when efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded*

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**
Nonresidential Performance Compliance Method — **(Page 4 of 17)**

C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)

	COMPLIES[2]		
Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	25.61	42	-16.39
Space Cooling	93.22	95.25	-2.03
Indoor Fans	152.65	81.72	70.93
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	54.63	54.6	0.03
Indoor Lighting	32.61	21.74	10.87
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**358.72**	**295.31**	**63.41 (17.7%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**358.72**	**295.31**	**63.41 (17.7%)**

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

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**
Nonresidential Performance Compliance Method — **(Page 5 of 17)**

C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	67.93	67.93	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**426.65**	**363.24**	**63.41 (14.9%)**

[1] *Notes: This table is not used for Energy Code Compliance.*

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**
Nonresidential Performance Compliance Method — **(Page 6 of 17)**

C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft² /yr)

	COMPLIES[2]		
Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Space Heating	3.73	6.14	-2.41
Space Cooling	3.47	3.65	-0.18
Indoor Fans	14.94	8.15	6.79
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	5.99	5.99	0
Indoor Lighting	2.57	1.71	0.86
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**30.7**	**25.64**	**5.06 (16.5%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**30.7**	**25.64**	**5.06 (16.5%)**

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

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**
Nonresidential Performance Compliance Method — **(Page 7 of 17)**

C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Receptacle	4.92	4.92	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**35.62**	**30.56**	**5.06 (14.2%)**

[1] *Notes: This table is not used for Energy Code Compliance.*

C6. 'ABOVE CODE' QUALIFICATIONS

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

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**
Nonresidential Performance Compliance Method — **(Page 8 of 17)**

C7. 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	0.8	1.3	-0.5	---	---	---
Space Cooling	2.3	2.3	0	---	---	---
Indoor Fans	5.2	2.8	2.4	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	2	2	0	---	---	---
Indoor Lighting	1.2	0.8	0.4	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**11.5**	**9.2**	**2.3**	**0**	**0**	**0**
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	**11.5**	**9.2**	**2.3**	**0**	**0**	**0**
Receptacle	2.5	2.5	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	**14**	**11.7**	**2.3**	**0**	**0**	**0**

PROJECT SPECIFIC STATE AGENCY APPROVAL

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San Diego, CA 92127
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PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER — MANJIT D. FRANCHER — No. 53380 — Exp. 03/31/24 — STRUCTURAL — STATE OF CALIFORNIA

02/16/24

RST #22088

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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

CODE: 2019 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
24'x40' T24 CZ 14 (WALL AC)

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
RH/RT

DATE
06/15/2021

SHEET NO.
M2.9

SHEET OF

9/7/2023 11:16:14 AM C:\Users\User\Documents\22088- Aries, 24x40 PC - MainFile - Low Seismic_detached (2022)_CESAR24D63.rvt

C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft² / yr)	Proposed Design (kBtu/ft² / yr)	Margin (kBtu/ft² / yr)	Margin Percentage
GROSS EUI[1]	49.76	41.58	8.18	16.44
NET EUI[1]	49.76	41.58	8.18	16.44

[1] Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.

D1. EXCEPTIONAL CONDITIONS

- The 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.
- The building does not include service water heating. Verify that service water heating is not required and is not included in the design.
- Project is claiming Exception 2 to Section 140.10(a): No PV system is required where the required PV system size is less than 4 kWdc.

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01	02	03	04
Opaque Surfaces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Area (ft²)	Window to Wall Ratio (%)
North-Facing[1]	240	32	13.33
East-Facing[2]	400	0	0
South-Facing[3]	240	32	13.33
West-Facing[4]	400	0	0
Total	**1280**	**64**	**5**
Roof	960	14	1.46

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 west (NW), but excluding 45 00'00" south of west (SW),

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13
			Supply Fan				Return / Relief Fan					
Name or Item Tag	Qty	Design OA CFM	CFM	Power	Power Units	Control	Fan Type	CFM	Power	Power Units	Control	Status[1]
AC-1	1	364.8	1,100	0.5	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

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

H8. SYSTEM SPECIAL FEATURES

01	02	03	04
System Name	Equipment Type	Interlocks per 140.4(n)[1]	Other Special Features and Controls
AC-1	Single Package VHP Air System	No	Zone(s) With CO2 Sensor Vent. Control Fixed DB

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.
[1] Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
Zone Name	Mechanical Ventilation				Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
1-First Floor	Education - Classrooms (ages 9-18)	24	364.8	0	960	DCV

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

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

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author 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).

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: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
Mechanical	NRCA-MCH-05-A - Air Economizer Controls
Mechanical	NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

There are no Certificates of Verification applicable to this project

G4. NONRESIDENTIAL AIR BARRIER

01	02
Building Story Name	Air Barrier
Com-Floor 1	No air barrier

G5. OPAQUE SURFACE ASSEMBLY SUMMARY

01	02	03	04	05	06		07	08	09	10
					Continuous R-Value					
Surface Name	Construction Type	Area (ft²)	Framing Type	Cavity R-Value	Interior	Exterior	Units	Value	Description of Assembly Layers	Status[1]
R-19 Wood Framed Wall7	Exterior Wall	1,280	Wood	19	N/A	N/A	U-factor	0.0605	Wood siding - 1/2 in. Vapor permeable felt - 1/8 in. Composite-1 Gypsum Board - 1/2 in. Softwood - 1.5 in.	N
R-19 Metal Floor Crawlspa14	Exterior Floor	960	Metal	19	N/A	N/A	U-factor	0.0588	Vented Crawl Space Composite-2 Plywood - 1/2 in. Carpet - 3/4 in.	N
Standing Seam R-38 Metal16	Roof	960	N/A	36	N/A	N/A	U-factor	0.06	Metal Standing Seam - 1/16 in. Composite-3	N

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

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12
			Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
System ID	System Type	Qty	Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	VSD
1-First Floor-Trm	Uncontrolled	1	N/A	N/A	1,100	N/A	0	N/A	N/A	N/A	☐

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

01	02	03	04	05	06
				Additional (Custom) Allowance	
Occupancy Type[1]	Conditioned Floor Area[2] (ft²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Area Category Footnotes (Watts)	Area Category Footnotes (Watts)
Classroom, Lecture, or Training Vocational	960	384	0	0	0
Building Totals:	**960**	**384**	**0**	**0**	**0**

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

Documentation Author's Declaration Statement

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

Documentation Author Name: LAL B. SAHGAL	Documentation Author Signature:
Company: LSA CONSULTING ENGINEERS	Signature Date:
Address: 83, WINDSWEPT WAY	CEA/HERS Certification Identification (if applicable): M26885
City/State/Zip: MISSION VIEJO, CA 92692	Phone: (949) 830-4746

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 understand that a registered 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, and I will take the necessary steps to accomplish this requirement.
6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

Responsible Designer Name:	Responsible Designer Signature:	
Company: R & S Tavares Associates		
Address: 11590 W. Bernardo Court, Suite 100	Date Signed:	
City/State/Zip: San Diego, Ca. 92127	License #:	
Phone:	Title:	Scope:

Responsible Designer Name:	Responsible Designer Signature:	
Company: R & S Tavares Associates		
Address: 11590 W. Bernardo Court, Suite 100	Date Signed:	
City/State/Zip: San Diego, Ca. 92127	License #:	
Phone:	Title:	Scope:

Responsible Designer Name: Lal Sahgal	Responsible Designer Signature:	
Company: LSA Consulting Engineers		
Address: 83, Windswept Way	Date Signed:	
City/State/Zip: Mission Viejo, Ca. 92692	License #: M26885	
Phone:	Title:	Scope:

G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)

01	02	03	04	05	06	07	08	09
Fenestration Assembly Name	Fenestration Type/ Product Type / Frame Type	Certification Method[1]	Assembly Method	Area (ft²)	Overall U-factor	Overall SHGC	Overall VT	Status[2]
Sierra Pacific Windows	Vertical fenestration Operable window N/A	NFRC	Manufactured	64	0.35	0.24	0.5	N
Sola tube	Skylight Fixed window N/A	NFRC	Manufactured	14	0.39	0.37	0.65	N

[1] Notes: 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

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
			Heating				Cooling				
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	Status[1]
AC-1	Single Package VHP Air System	1	34.37	13.65	COP	3.3	34.56	EER	11	Fixed DB	N

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

K2. INDOOR CONDITIONED LIGHTING SCHEDULE

Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in offices)

01	02	03	04	05	06
		Installed Watts (Conditioned)			
Name or Item Tag	Complete Luminaire Description (i.e. 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	How is Wattage determined	Total Number of Luminaires	Installed Watts
L-1	2x4 LED Panel	48	According to	8	384

[1]If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.

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)

01	02	03	04	05	06	07	08	09
Area Description	Primary Function Area (must meet requirements of Table 140.6-A and 170.2-L)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-1-First Floor	Classroom, Lecture, or Training Vocational	N/A	N/A	L-1	48	8	384	0
						Lighting Control Credits (Conditioned) Total (Watts)		0

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL

Building Level Controls

01	02
Mandatory Demand Response 110.12(c)	Shut-Off Controls 130.1(c) & 160.5(b)4C
Required	Required

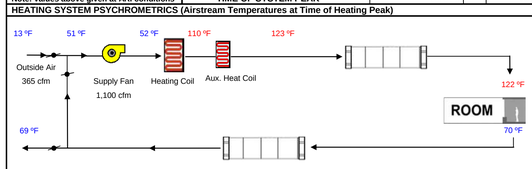
See NRCC-LTI-E for mandatory controls

HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

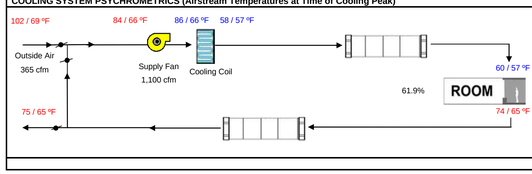
Project Name: 24X40 (PC 04-121369) - Wall AC
Date: 7/26/2023
System Name: AC-1
Floor Area: 960

ENGINEERING CHECKS		SYSTEM LOAD	COIL COOLING PEAK CFM	COIL COOLING PEAK Sensible	COIL COOLING PEAK Latent	COIL HTG. PEAK CFM	COIL HTG. PEAK Sensible
Number of Systems	1						
Heating System							
Output per System	33,000	**Total Room Loads**	2,054	28,927	9,600	230	11,785
Total Output (Btuh)	33,000	**Return Vented Lighting**		0			
Output (Btuh/sqft)	34.4	**Return Air Ducts**		1,446			589
Cooling System		**Return Fan**		0			0
Output per System	36,000	**Ventilation**	365	9,547	-5,338	365	20,216
Total Output (Btuh)	36,000	**Supply Fan**		1,535			-1,535
Total Output (Tons)	3.0	**Supply Air Ducts**		1,446			589
Total Output (Btuh/sqft)	37.5						
Total Output (sqft/Ton)	320.0	**TOTAL SYSTEM LOAD**		42,901	4,262		31,644
Air System							
CFM per System	1,100	**HVAC EQUIPMENT SELECTION**					
Airflow (cfm)	1,100	Bard W36HB		29,467	4,973		13,777
Airflow (cfm/sqft)	1.15	HP Supplemental Coil					13,648
Airflow (cfm/Ton)	366.7						
Outside Air (%)	33.2%	**Total Adjusted System Output** (Adjusted for Peak Design conditions)		29,467	4,973		27,425
Outside Air (cfm/sqft)	0.38						
Note: values above given at ARI conditions		**TIME OF SYSTEM PEAK**		Jul 3 PM			Jan 1 AM

HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)



COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)



PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
11590 W Bernardo Court, Suite 100
San Diego, CA 92127
www.rstavares.com

PROFESSIONAL STAMP
REGISTERED PROFESSIONAL ENGINEER
MANJIT D. PANCHER
No. 53387
Exp. 03/31/24
STRUCTURAL
STATE OF CALIFORNIA
02/16/24
RST#22088

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CLIENT
Class Leasing
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ORIGINAL PC STATE AGENCY APPROVAL
APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule
Description Date

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

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
24'x40' T24 CZ 14 (WALL AC)

PROJECT NUMBER 22088
DRAWN BY rMc/SC
CHECKED BY RH/RT
DATE 06/15/2021
SHEET NO. M2.10
SHEET OF

C:\Users\User\Documents\22088- Aries, 24x40 PC - MainFile - Low Seismic_(detached (2022)_CE5ARZ4D63.rvt
9/7/2023 11:16:14 AM

BUILDING ENERGY ANALYSIS REPORT

PROJECT:
24X40 (PC 04-121369) - Wall AC
Climate Zone 15
Palm Springs, CA

Project Designer:
R & S Tavares Associates
11590 W. Bernardo Court, Suite 100
San Diego, Ca. 92127

Report Prepared by:
LAL B. SAHGAL
LSA CONSULTING ENGINEERS
83, WINDSWEPT WAY
MISSION VIEJO, CA 92692
(949) 830-4746

Job Number:

Date:
7/26/2023

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2022 Building Energy Efficiency Standards.

This program developed by EnergySoft, LLC – www.energysoft.com.

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**
Nonresidential Performance Compliance Method — **(Page 1 of 17)**
Project Name: 24X40 (PC 04-121369) - Wall AC | **Date Prepared:** 2023-07-25

A. General Information

1	Project Name	24X40 (PC 04-121369) - Wall AC		
2	Run Title	Title 24 Analysis		
3	Project Location	Climate Zone 15		
4	City	Palm Springs	5 Standards Version	Compliance 2022
6	Zip code	99999	7 Compliance Software (version)	EnergyPro 9.1
8	Climate Zone	15	9 Building Orientation (deg)	75
10	Building Type(s)	• Nonresidential	11 Weather File	PALM-SPRINGS_STYP20.epw
12	Project Scope	• New complete scope	13 Number of Dwelling Units	0
14	Total Conditioned Floor Area in Scope (ft²)	960	15 Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft²)	0	17 Fuel Type	Natural gas
18	Nonresidential Conditioned Floor Area	960	19 Total # of Stories (Habitable Above Grade)	1
20	Residential Conditioned Floor Area	0		

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**
Nonresidential Performance Compliance Method — **(Page 2 of 17)**

B. PROJECT SUMMARY

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 the permit application.

Building Components Complying via Performance						Building Components Complying Prescriptively	
Envelope (See Table G)	Nonres	Performance	Solar Thermal Water Heating (See Table I3)	☐	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).	
	MultiFam	Not Included		☒	Not Included		
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table J)	☐	Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
	MultiFam	Not Included		☒	Not Included	Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTO-E is required
Domestic Hot Water (See Table I)	Nonres	Not Included	Covered Process: Laboratory Exhaust (see Table J)	☐	Performance	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
	MultiFam	Not Included		☒	Not Included	**Building Components Complying with Mandatory Measures**	
Lighting (Indoor Conditioned, see Table K)	Nonres	Performance	Photovoltaics (see Table F)	☐	Performance	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)	
	MultiFam	Not Included		☒	Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Battery (see Table F)	☐	Performance	Commissioning 120.8	NRCC-CXR-E is required
				☒	Not Included	Solar and Battery 110.10	NRCC-SAB-E is required

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**
Nonresidential Performance Compliance Method — **(Page 3 of 17)**

C1. COMPLIANCE SUMMARY

	COMPLIES[3]		
	Time Dependent Valuaton (TDV)		Source Energy Use
	Efficiency[1] (kBtu/ft² - yr)	Total[2] (kBtu/ft² - yr)	Total[2] (kBtu/ft² - yr)
Standard Design	369.92	369.92	27.65
Proposed Design	301.78	301.78	21.62
Compliance Margins	**68.14**	**68.14**	**6.03**
	Pass	**Pass**	**Pass**

[1] Efficiency measures include improvements like a better building envelope and more efficient equipment
[2] Compliance Totals include efficiency, photovoltaics and batteries
[3] Building complies when efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**
Nonresidential Performance Compliance Method — **(Page 4 of 17)**

C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)

	COMPLIES[2]		
Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	5.43	9.65	-4.22
Space Cooling	152.4	156.74	-4.34
Indoor Fans	140.88	74.91	65.97
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	38.99	39	-0.01
Indoor Lighting	32.22	21.48	10.74
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**369.92**	**301.78**	**68.14 (18.4%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**369.92**	**301.78**	**68.14 (18.4%)**

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

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**
Nonresidential Performance Compliance Method — **(Page 5 of 17)**

C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	66.69	66.69	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**436.61**	**368.47**	**68.14 (15.6%)**

[1] Notes: This table is not used for Energy Code Compliance.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**
Nonresidential Performance Compliance Method — **(Page 6 of 17)**

C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft² /yr)

	COMPLIES[2]		
Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Space Heating	0.73	1.33	-0.6
Space Cooling	7.45	7.45	0
Indoor Fans	12.67	6.9	5.77
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	4.23	4.23	0
Indoor Lighting	2.57	1.71	0.86
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**27.65**	**21.62**	**6.03 (21.8%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**27.65**	**21.62**	**6.03 (21.8%)**

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

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**
Nonresidential Performance Compliance Method — **(Page 7 of 17)**

C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Receptacle	4.92	4.92	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**32.57**	**26.54**	**6.03 (18.5%)**

[1] Notes: This table is not used for Energy Code Compliance.

C6. 'ABOVE CODE' QUALIFICATIONS

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

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**
Nonresidential Performance Compliance Method — **(Page 8 of 17)**

C7. 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	0.1	0.3	-0.2	---	---	---
Space Cooling	4.5	4.5	0	---	---	---
Indoor Fans	4.8	2.5	2.3	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	1.5	1.5	0	---	---	---
Indoor Lighting	1.2	0.8	0.4	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**12.1**	**9.6**	**2.5**	**0**	**0**	**0**
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	**12.1**	**9.6**	**2.5**	**0**	**0**	**0**
Receptacle	2.5	2.5	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	**14.6**	**12.1**	**2.5**	**0**	**0**	**0**

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ★ CONSULTING ★ PROJECT MGT
11590 W. Bernardo Court, Suite 100
San Diego, CA 92127
Phone: (858) 444-3344
www.RSTAVARES.com

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER — MANJIT D. FRANCHER — No. 53387 — Exp. 03/31/24 — STRUCTURAL — STATE OF CALIFORNIA

02/16/24

RST #22088

THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEVISED SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. ©

CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
24'x40' T24 CZ 15 (WALL AC)

PROJECT NUMBER
22088

DRAWN BY
rMc/CG

CHECKED BY
RH/RT

DATE
06/15/2021

SHEET NO.
M2.11

SHEET OF

C:\Users\User\Documents\22088- Aries, 24x40 PC - MainFile - Low Seismic_detached (2022)_CESAR24D63.rvt
9/7/2023 11:16:15 AM

C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft² / yr)	Proposed Design (kBtu/ft² / yr)	Margin (kBtu/ft² / yr)	Margin Percentage
GROSS EUI[1]	51.89	43.01	8.88	17.11
NET EUI[1]	51.89	43.01	8.88	17.11

[1] Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.

D1. EXCEPTIONAL CONDITIONS

• The 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.
• The building does not include service water heating. Verify that service water heating is not required and is not included in the design.
• Project is claiming Exception 2 to Section 140.10(a): No PV system is required where the required PV system size is less than 4 kWdc.

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01	02	03	04
Opaque Surfaces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Area (ft²)	Window to Wall Ratio (%)
North-Facing[1]	240	32	13.33
East-Facing[2]	400	0	0
South-Facing[3]	240	32	13.33
West-Facing[4]	400	0	0
Total	**1280**	**64**	**5**
Roof	960	14	1.46

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 west (NW), but excluding 45 00'00" south of west (SW),

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13
Name or Item Tag	Qty	Design OA CFM	Supply Fan				Return / Relief Fan					Status[1]
			CFM	Power	Power Units	Control	Fan Type	CFM	Power	Power Units	Control	
AC-1	1	364.8	1,100	0.5	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

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

H8. SYSTEM SPECIAL FEATURES

01	02	03	04
System Name	Equipment Type	Interlocks per 140.4(n)[1]	Other Special Features and Controls
AC-1	Single Package VHP Air System	No	Zone(s) With CO2 Sensor Vent. Control Fixed DB

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.
[1] Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
Zone Name	Mechanical Ventilation				Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
1-First Floor	Education - Classrooms (ages 9-18)	24	364.8	0	960	DCV

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

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

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author 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).

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: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
Mechanical	NRCA-MCH-05-A - Air Economizer Controls
Mechanical	NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

There are no Certificates of Verification applicable to this project

G4. NONRESIDENTIAL AIR BARRIER

01	02
Building Story Name	Air Barrier
Com-Floor 1	No air barrier

G5. OPAQUE SURFACE ASSEMBLY SUMMARY

01	02	03	04	05	06		07	08	09	10
Surface Name	Construction Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value		Units	Value	Description of Assembly Layers	Status[1]
					Interior	Exterior				
R-19 Wood Framed Wall7	Exterior Wall	1,280	Wood	19	N/A	N/A	U-factor	0.0605	Wood siding - 1/2 in. Vapor permeable felt - 1/8 in. Composite-1 Gypsum Board - 1/2 in. Softwood - 1.5 in.	N
R-19 Metal Floor Crawlspa14	Exterior Floor	960	Metal	19	N/A	N/A	U-factor	0.0588	Vented Crawl Space Composite-2 Plywood - 1/2 in. Carpet - 3/4 in.	N
Standing Seam R-38 Metal16	Roof	960	N/A	36	N/A	N/A	U-factor	0.06	Metal Standing Seam - 1/16 in. Composite-3	N

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

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12
System ID	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			VSD
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	
1-First Floor-Trm	Uncontrolled	1	N/A	N/A	1,100	N/A	0	N/A	N/A	N/A	☐

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

01	02	03	04	05	06
Occupancy Type[1]	Conditioned Floor Area[2] (ft²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance	
				Area Category Footnotes (Watts)	Area Category Footnotes (Watts)
Classroom, Lecture, or Training Vocational	960	384	0	0	0
Building Totals:	**960**	**384**	**0**	**0**	**0**

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

Documentation Author's Declaration Statement

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

Documentation Author Name: LAL B. SAHGAL	Documentation Author Signature:
Company: LSA CONSULTING ENGINEERS	Signature Date:
Address: 83, WINDSWEPT WAY	CEA/HERS Certification Identification (if applicable): M26885
City/State/Zip: MISSION VIEJO, CA 92692	Phone: (949) 830-4746

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 understand that a registered 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, and I will take the necessary steps to accomplish this requirement.
6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

Responsible Designer Name:	Responsible Designer Signature:	
Company: R & S Tavares Associates		
Address: 11590 W. Bernardo Court, Suite 100	Date Signed:	
City/State/Zip: San Diego, Ca. 92127	License #:	
Phone:	Title:	Scope:
Responsible Designer Name:	Responsible Designer Signature:	
Company: R & S Tavares Associates		
Address: 11590 W. Bernardo Court, Suite 100	Date Signed:	
City/State/Zip: San Diego, Ca. 92127	License #:	
Phone:	Title:	Scope:

Responsible Designer Name: Lal Sahgal	Responsible Designer Signature:
Company: LSA Consulting Engineers	
Address: 83, Windswept Way	Date Signed:
City/State/Zip: Mission Viejo, Ca. 92692	License #: M26885
Phone:	Title: Scope:

G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)

01	02	03	04	05	06	07	08	09
Fenestration Assembly Name	Fenestration Type/ Product Type / Frame Type	Certification Method[1]	Assembly Method	Area (ft²)	Overall U-factor	Overall SHGC	Overall VT	Status[2]
Sierra Pacific Windows	Vertical fenestration Operable window N/A	NFRC	Manufactured	64	0.35	0.24	0.5	N
Sola tube	Skylight Fixed window N/A	NFRC	Manufactured	14	0.39	0.37	0.65	N

[1] Notes: 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

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
Equipment Name	Equipment Type	Qty	Heating				Cooling			Economizer Type (if present)	Status[1]
			Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency		
AC-1	Single Package VHP Air System	1	34.37	13.65	COP	3.3	34.56	EER	11	Fixed DB	N

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

K2. INDOOR CONDITIONED LIGHTING SCHEDULE

Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in offices)

01	02	03	04	05	06
Name or Item Tag	Complete Luminaire Description (i.e. 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Installed Watts (Conditioned)			
		Watts per luminaire	How is Wattage determined	Total Number of Luminaires	Installed Watts
L-1	2x4 LED Panel	48	According to	8	384

[1]If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.

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)

01	02	03	04	05	06	07	08	09
Area Description	Primary Function Area (must meet requirements of Table 140.6-A and 170.2-L)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-1-First Floor	Classroom, Lecture, or Training Vocational	N/A	N/A	L-1	48	8	384	0
						Lighting Control Credits (Conditioned) Total (Watts)		0

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL

Building Level Controls

01	02
Mandatory Demand Response 110.12(c)	Shut-Off Controls 130.1(c) & 160.5(b)4C
Required	Required

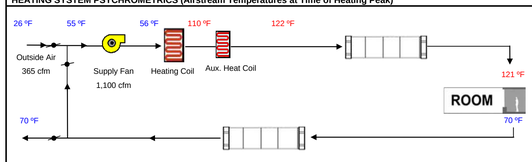
See NRCC-LTI-E for mandatory controls

HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

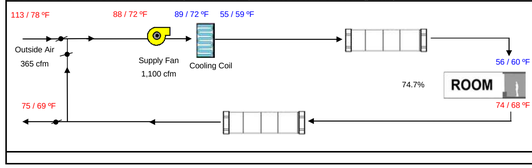
Project Name: 24X40 (PC 04-121369) - Wall AC
Date: 7/26/2023
System Name: AC-1
Floor Area: 960

ENGINEERING CHECKS		SYSTEM LOAD	COIL COOLING PEAK			COIL HTG. PEAK	
			CFM	Sensible	Latent	CFM	Sensible
Number of Systems	1						
Heating System							
Output per System	33,000	Total Room Loads	1,653	31,075	9,600	167	9,097
Total Output (Btuh)	33,000	Return Vented Lighting		0			
Output (Btuh/sqft)	34.4	Return Air Ducts		1,554			455
Cooling System		Return Fan		0			0
Output per System	36,000	Ventilation	365	14,619	-1,514	365	16,924
Total Output (Btuh)	36,000	Supply Fan		1,535			-1,535
Total Output (Tons)	3.0	Supply Air Ducts		1,554			455
Total Output (Btuh/sqft)	37.5						
Total Output (sqft/Ton)	320.0	TOTAL SYSTEM LOAD		50,337	8,086		25,396
Air System							
CFM per System	1,100	HVAC EQUIPMENT SELECTION					
Airflow (cfm)	1,100	Bard W36HB		26,824	9,056		20,611
Airflow (cfm/sqft)	1.15	HP Supplemental Coil					13,648
Airflow (cfm/Ton)	366.7						
Outside Air (%)	33.2%	Total Adjusted System Output (Adjusted for Peak Design conditions)		26,824	9,056		34,259
Outside Air (cfm/sqft)	0.38						
Note: values above given at ARI conditions		TIME OF SYSTEM PEAK		Jul 3 PM			Jan 1 AM

HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)



COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)



PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ★ CONSULTING ★ PROJECT MGT
11590 W. Bernardo Court, Suite 100
San Diego, CA 92127
Phone: (858) 444-3344
www.rstavares.com

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
MANJIT D. PACHHER
No. 53387
Exp. 03/31/24
STRUCTURAL
STATE OF CALIFORNIA
02/16/24
RST#22088

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CLIENT

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Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
24'x40' T24 CZ 15 (WALL AC)

PROJECT NUMBER
22088

DRAWN BY
rMc/CG

CHECKED BY
RH/RT

DATE
06/15/2021

SHEET NO.
M2.12

SHEET OF

9/7/2023 11:16:16 AM C:\Users\User\Documents\22088- Aries, 24x40 PC - MainFile - Low Seismic_detached (2022)_CESAR24D63.rvt

BUILDING ENERGY ANALYSIS REPORT

PROJECT:
24X40 (PC 04-121369) - Wall AC
Climate Zone 16
Blue Canyon, CA

Project Designer:
R & S Tavares Associates
11590 W. Bernardo Court, Suite 100
San Diego, Ca. 92127

Report Prepared by:
LAL B. SAHGAL
LSA CONSULTING ENGINEERS
83, WINDSWEPT WAY
MISSION VIEJO, CA 92692
(949) 830-4746

Job Number:

Date:
7/26/2023

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2022 Building Energy Efficiency Standards.

This program developed by EnergySoft, LLC – www.energysoft.com.

TABLE OF CONTENTS

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HVAC System Heating and Cooling Loads Summary	20

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**
Nonresidential Performance Compliance Method — **(Page 1 of 17)**
Project Name: 24X40 (PC 04-121369) - Wall AC | **Date Prepared:** 2023-07-26

A. General Information

1	Project Name	24X40 (PC 04-121369) - Wall AC		
2	Run Title	Title 24 Analysis		
3	Project Location	Climate Zone 16		
4	City	Blue Canyon	5 Standards Version	Compliance 2022
6	Zip code	99999	7 Compliance Software (version)	EnergyPro 9.1
8	Climate Zone	16	9 Building Orientation (deg)	30
10	Building Type(s)	• Nonresidential	11 Weather File	BLUE-CANYON_STYP20.epw
12	Project Scope	• New complete scope	13 Number of Dwelling Units	0
14	Total Conditioned Floor Area in Scope (ft²)	960	15 Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft²)	0	17 Fuel Type	Natural gas
18	Nonresidential Conditioned Floor Area	960	19 Total # of Stories (Habitable Above Grade)	1
20	Residential Conditioned Floor Area	0		

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**
Nonresidential Performance Compliance Method — **(Page 2 of 17)**

B. PROJECT SUMMARY

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 the permit application.

Building Components Complying via Performance						Building Components Complying Prescriptively	
Envelope (See Table G)	Nonres	Performance	Solar Thermal Water Heating (See Table I3)	☐	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).	
	MultiFam	Not Included		☒	Not Included		
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table J)	☐	Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
	MultiFam	Not Included		☒	Not Included	Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTO-E is required
Domestic Hot Water (See Table I)	Nonres	Not Included	Covered Process: Laboratory Exhaust (see Table J)	☐	Performance	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
	MultiFam	Not Included		☒	Not Included	**Building Components Complying with Mandatory Measures**	
Lighting (Indoor Conditioned, see Table K)	Nonres	Performance	Photovoltaics (see Table F)	☐	Performance	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)	
	MultiFam	Not Included		☒	Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Battery (see Table F)	☐	Performance	Commissioning 120.8	NRCC-CXR-E is required
				☒	Not Included	Solar and Battery 110.10	NRCC-SAB-E is required

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**
Nonresidential Performance Compliance Method — **(Page 3 of 17)**

C1. COMPLIANCE SUMMARY

COMPLIES[3]

	Time Dependent Valuaton (TDV)		Source Energy Use
	Efficiency[1] (kBtu/ft² - yr)	**Total[2] (kBtu/ft² - yr)**	**Total[2] (kBtu/ft² - yr)**
Standard Design	307.23	307.23	49.92
Proposed Design	273.51	273.51	36.13
Compliance Margins	**33.72**	**33.72**	**13.79**
	Pass	**Pass**	**Pass**

[1] Efficiency measures include improvements like a better building envelope and more efficient equipment
[2] Compliance Totals include efficiency, photovoltaics and batteries
[3] Building complies when efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**
Nonresidential Performance Compliance Method — **(Page 4 of 17)**

C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)

COMPLIES[2]

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	51.5	114.86	-63.36
Space Cooling	19.06	18.57	0.49
Indoor Fans	169.42	83.19	86.23
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	36.19	36.19	0
Indoor Lighting	31.06	20.7	10.36
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**307.23**	**273.51**	**33.72 (11%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**307.23**	**273.51**	**33.72 (11%)**

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

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**
Nonresidential Performance Compliance Method — **(Page 5 of 17)**

C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	63.66	63.66	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**370.89**	**337.17**	**33.72 (9.1%)**

[1] Notes: This table is not used for Energy Code Compliance.

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**
Nonresidential Performance Compliance Method — **(Page 6 of 17)**

C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft² /yr)

COMPLIES[2]

Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Space Heating	16.26	11.75	4.51
Space Cooling	1.3	1.31	-0.01
Indoor Fans	16.75	8.32	8.43
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	13.04	13.04	0
Indoor Lighting	2.57	1.71	0.86
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**49.92**	**36.13**	**13.79 (27.6%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**49.92**	**36.13**	**13.79 (27.6%)**

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

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**
Nonresidential Performance Compliance Method — **(Page 7 of 17)**

C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Receptacle	4.92	4.92	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**54.84**	**41.05**	**13.79 (25.1%)**

[1] Notes: This table is not used for Energy Code Compliance.

C6. 'ABOVE CODE' QUALIFICATIONS

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

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **NRCC-PRF-E**
Nonresidential Performance Compliance Method — **(Page 8 of 17)**

C7. 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	0.1	3	-2.9	16.4	---	---
Space Cooling	0.8	0.7	0.1	---	---	---
Indoor Fans	5.6	2.8	2.8	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	---	---	---	13.6	13.6	0
Indoor Lighting	1.2	0.8	0.4	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**7.7**	**7.3**	**0.4**	**30**	**13.6**	**16.4**
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	**7.7**	**7.3**	**0.4**	**30**	**13.6**	**16.4**
Receptacle	2.5	2.5	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	**10.2**	**9.8**	**0.4**	**30**	**13.6**	**16.4**

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
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11590 W Bernardo Court, Suite 100
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PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER — MANJIT D. FRANCHER — No. 53387 Exp. 03/31/24 — STRUCTURAL — STATE OF CALIFORNIA

02/16/24

RST#22088

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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

CODE: 2019 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
24'x40' T24 CZ 16 (WALL AC)

PROJECT NUMBER
22088

DRAWN BY
Author

CHECKED BY
Checker

DATE
06/15/2021

SHEET NO.
M2.13

SHEET OF

9/7/2023 11:16:17 AM C:\Users\User\Documents\22088- Aries, 24x40 PC - MainFile - Low Seismic_detached (2022)_CESAR24D63.rvt

C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft² / yr)	Proposed Design (kBtu/ft² / yr)	Margin (kBtu/ft² / yr)	Margin Percentage
GROSS EUI[1]	67.5	49	18.5	27.41
NET EUI[1]	67.5	49	18.5	27.41

[1] Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.

D1. EXCEPTIONAL CONDITIONS

• The 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.
• The building does not include service water heating. Verify that service water heating is not required and is not included in the design.
• Project is claiming Exception 2 to Section 140.10(a): No PV system is required where the required PV system size is less than 4 kWdc.

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01	02	03	04
Opaque Surfaces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Area (ft²)	Window to Wall Ratio (%)
North-Facing[1]	400	0	0
East-Facing[2]	240	32	13.33
South-Facing[3]	400	0	0
West-Facing[4]	240	32	13.33
Total	**1280**	**64**	**5**
Roof	960	14	1.46

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 west (NW), but excluding 45 00'00" south of west (SW),

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12	13
Name or Item Tag	Qty	Design OA CFM	Supply Fan				Return / Relief Fan					Status[1]
			CFM	Power	Power Units	Control	Fan Type	CFM	Power	Power Units	Control	
AC-1	1	364.8	1,100	0.5	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

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

H8. SYSTEM SPECIAL FEATURES

01	02	03	04
System Name	Equipment Type	Interlocks per 140.4(n)[1]	Other Special Features and Controls
AC-1	Single Package VHP Air System	No	Zone(s) With CO2 Sensor Vent. Control Fixed DB

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.

[1] Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01	02	03	04	05	06	07
Zone Name	Mechanical Ventilation				Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
1-First Floor	Education - Classrooms (ages 9-18)	24	364.8	0	960	DCV

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

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

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author 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).

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: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
Mechanical	NRCA-MCH-05-A - Air Economizer Controls
Mechanical	NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

There are no Certificates of Verification applicable to this project

G4. NONRESIDENTIAL AIR BARRIER

01	02
Building Story Name	Air Barrier
Com-Floor 1	No air barrier

G5. OPAQUE SURFACE ASSEMBLY SUMMARY

01	02	03	04	05	06		07	08	09	10
Surface Name	Construction Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value		Units	Value	Description of Assembly Layers	Status[1]
					Interior	Exterior				
R-19 Wood Framed Wall7	Exterior Wall	1,280	Wood	19	N/A	N/A	U-factor	0.0605	Wood siding - 1/2 in. Vapor permeable felt - 1/8 in. Composite-1 Gypsum Board - 1/2 in. Softwood - 1.5 in.	N
R-19 Metal Floor Crawlspa14	Exterior Floor	960	Metal	19	N/A	N/A	U-factor	0.0588	Vented Crawl Space Composite-2 Plywood - 1/2 in. Carpet - 3/4 in.	N
Standing Seam R-38 Metal16	Roof	960	N/A	36	N/A	N/A	U-factor	0.06	Metal Standing Seam - 1/16 in. Composite-3	N

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

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01	02	03	04	05	06	07	08	09	10	11	12
System ID	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			VSD
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	
1-First Floor-Trm	Uncontrolled	1	N/A	N/A	1,100	N/A	0	N/A	N/A	N/A	☐

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

01	02	03	04	05	06
Occupancy Type[1]	Conditioned Floor Area[2] (ft²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance	
				Area Category Footnotes (Watts)	Area Category Footnotes (Watts)
Classroom, Lecture, or Training Vocational	960	384	0	0	0
Building Totals:	**960**	**384**	**0**	**0**	**0**

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

Documentation Author's Declaration Statement

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

Documentation Author Name: LAL B. SAHGAL	Documentation Author Signature:
Company: LSA CONSULTING ENGINEERS	Signature Date:
Address: 83, WINDSWEPT WAY	CEA/HERS Certification Identification (if applicable): M26885
City/State/Zip: MISSION VIEJO, CA 92692	Phone: (949) 830-4746

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 understand that a registered 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, and I will take the necessary steps to accomplish this requirement.
6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

Responsible Designer Name:	Responsible Designer Signature:	
Company: R & S Tavares Associates		
Address: 11590 W. Bernardo Court, Suite 100	Date Signed:	
City/State/Zip: San Diego, Ca. 92127	License #:	
Phone:	Title:	Scope:
Responsible Designer Name:	Responsible Designer Signature:	
Company: R & S Tavares Associates		
Address: 11590 W. Bernardo Court, Suite 100	Date Signed:	
City/State/Zip: San Diego, Ca. 92127	License #:	
Phone:	Title:	Scope:

Responsible Designer Name: Lal Sahgal	Responsible Designer Signature:
Company: LSA Consulting Engineers	
Address: 83, Windswept Way	Date Signed:
City/State/Zip: Mission Viejo, Ca. 92692	License #: M26885
Phone:	Title: Scope:

G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)

01	02	03	04	05	06	07	08	09
Fenestration Assembly Name	Fenestration Type/ Product Type / Frame Type	Certification Method[1]	Assembly Method	Area (ft²)	Overall U-factor	Overall SHGC	Overall VT	Status[2]
Sierra Pacific Windows	Vertical fenestration Operable window N/A	NFRC	Manufactured	64	0.35	0.24	0.5	N
Sola tube	Skylight Fixed window N/A	NFRC	Manufactured	14	0.39	0.37	0.65	N

[1] Notes: 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

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01	02	03	04	05	06	07	08	09	10	11	12
Equipment Name	Equipment Type	Qty	Heating				Cooling			Economizer Type (if present)	Status[1]
			Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency		
AC-1	Single Package VHP Air System	1	34.37	13.65	COP	3.3	34.56	EER	11	Fixed DB	N

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

K2. INDOOR CONDITIONED LIGHTING SCHEDULE

Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft² in offices)

01	02	03	04	05	06
Name or Item Tag	Complete Luminaire Description (i.e. 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Installed Watts (Conditioned)			
		Watts per luminaire	How is Wattage determined	Total Number of Luminaires	Installed Watts
L-1	2x4 LED Panel	48	According to	8	384

[1]If lighting power densities were used in the compliance model Building Departments will need to check prescriptive forms for Luminaire Schedule details.

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)

01	02	03	04	05	06	07	08	09
Area Description	Primary Function Area (must meet requirements of Table 140.6-A and 170.2-L)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-1-First Floor	Classroom, Lecture, or Training Vocational	N/A	N/A	L-1	48	8	384	0
						Lighting Control Credits (Conditioned) Total (Watts)		0

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROL

Building Level Controls

01	02
Mandatory Demand Response 110.12(c)	Shut-Off Controls 130.1(c) & 160.5(b)4C
Required	Required

See NRCC-LTI-E for mandatory controls

HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

Project Name	Date
24X40 (PC 04-121369) - Wall AC	7/26/2023
System Name	Floor Area
AC-1	960

ENGINEERING CHECKS

Number of Systems	1
Heating System	
Output per System	33,000
Total Output (Btuh)	33,000
Output (Btuh/sqft)	34.4
Cooling System	
Output per System	36,000
Total Output (Btuh)	36,000
Total Output (Tons)	3.0
Total Output (Btuh/sqft)	37.5
Total Output (sqft/Ton)	320.0
Air System	
CFM per System	1,100
Airflow (cfm)	1,100
Airflow (cfm/sqft)	1.15
Airflow (cfm/Ton)	366.7
Outside Air (%)	33.2%
Outside Air (cfm/sqft)	0.38
Note: values above given at ARI conditions	

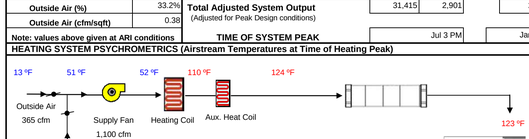
SYSTEM LOAD

	COIL COOLING PEAK			COIL HTG. PEAK	
	CFM	Sensible	Latent	CFM	Sensible
Total Room Loads	1,209	26,482	9,600	248	11,785
Return Vented Lighting		0			
Return Air Ducts		1,324			589
Return Fan		0			0
Ventilation	365	3,129	-1,167	365	18,296
Supply Fan		1,535			-1,535
Supply Air Ducts		1,324			589
TOTAL SYSTEM LOAD		33,795	8,433		29,724

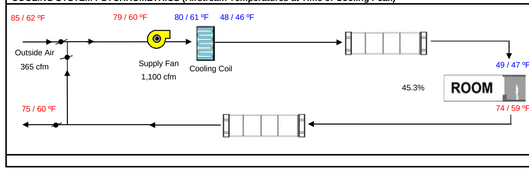
HVAC EQUIPMENT SELECTION

Bard W36HB	31,415	2,901		13,777
HP Supplemental Coil				13,648
Total Adjusted System Output (Adjusted for Peak Design conditions)	31,415	2,901		27,425
TIME OF SYSTEM PEAK		Jul 3 PM		Jan 1 AM

HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)



COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)



PROJECT SPECIFIC STATE AGENCY APPROVAL

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No. 53387
Exp. 03/31/24
STRUCTURAL
STATE OF CALIFORNIA
RST#22088
02/16/24

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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

CODE: 2019 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
24'x40' T24 CZ 16 (WALL AC)

PROJECT NUMBER
22088

DRAWN BY
Author

CHECKED BY
Checker

DATE
06/15/2021

SHEET NO.
M2.14

SHEET OF

9/7/2023 11:16:17 AM C:\Users\User\Documents\22088- Aries, 24x40 PC - MainFile - Low Seismic_detached (2022)_CESAR24D63.rvt

ENVELOPE MANDATORY MEASURES: NONRESIDENTIAL — ENV-MM

Project Name: *120X40 (PC 04-116504) - Wall AC*
Date: *6/23/2018*

DESCRIPTION

Building Envelope Measures:

§110.8(a):	Installed insulating material shall have been certified by the manufacturer to comply with the California Quality Standards for insulating material, Title 20 Chapter 4, Article 3.
§110.8(c):	All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2602 and 707 of Title 24, Part 2.
§110.8(g):	Heated slab floors shall be insulated according to the requirements in Table 110.8-A.
§110.7(a):	All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.
§110.6(a):	Manufactured fenestration products and exterior doors shall have air infiltration rates not exceeding 0.3 cfm/ft.^{2} of window area, 0.3 cfm/ft.^{2} of door area for residential doors, 0.3 cfm/ft.^{2} of door area for nonresidential single doors (swinging and sliding), and 1.0 cfm/ft.^{2} for nonresidential double doors (swinging).
§110.6(a):	Fenestration U-factor shall be rated in accordance with NFRC 100, or the applicable default U-factor.
§110.6(a) :	Fenestration SHGC shall be rated in accordance with NFRC 200, or NFRC 100 for site-built fenestration, or the applicable default SHGC.
§110.6(b):	Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, and shall be weatherstripped (except for unframed glass doors and fire doors).
§120.7(a):	The opaque portions of the roof/ceiling that separates conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-Factor requirements as follows: **Metal Building-** The weighted average U-factor of the roof assembly shall not exceed 0.098. **Wood Framed and Others-** The weighted average U-factor of the roof assembly shall not exceed 0.075.
§120.7(b):	The opaque portions of walls that separate conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-factor as follows: **Metal Building-** The weighted average U-factor of the wall assembly shall not exceed 0.113. **Metal Framed-** The weighted average U-factor of the wall assembly shall not exceed 0.151. **Light Mass Walls-** A 6 inch or greater Hollow Core Concrete Masonry Unit shall have a U-factor not to exceed 0.440. **Heavy Mass Walls-** An 8 inch or greater Hollow Core Concrete Masonry Unit shall have a U-factor not to exceed 0.690. **Wood Framed and Others-** The weighted average U-factor of the wall assembly shall not exceed 0.110. **Spandrel Panels and Opaque Curtain Wall-** The weighted average U-factor of the spandrel panels and opaque curtain wall assembly shall not exceed 0.280. **Demising Walls-** The opaque portions of framed demising walls shall meet the requirements of Item A or B below: A. Wood framed walls shall be insulated to meet a U-factor not greater than 0.099. B. Metal Framed walls shall be insulated to meet a U-factor not greater than 0.151.
§120.7(c):	The opaque portions of floors and soffits that separate conditioned spaces from unconditioned spaces or ambient air shall meet the applicable U-Factor requirements as follows: **Raised Mass Floors-** Shall have a minimum of 3 inches of lightweight concrete over a metal deck or the weighted average U-factor of the floor assembly shall not exceed 0.269. **Other Floors-**The weighted average U-factor of the floor assembly shall not exceed 0.071.

STATE OF CALIFORNIA
Domestic Water Heating System — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name: 24X40 (PC 04-121369) - Wall AC	Report Page:	(Page 1 of 6)
Project Address: Climate Zone 14	Date Prepared:	9/7/2023

A. GENERAL INFORMATION

01	Project Location (city)	Palmdale	02	Climate Zone 14
03	Occupancy Types Within Project (select all that apply):			
• Classroom				

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./ 170.2(d) and 141.0(a)/ 180.1, or 141.0(b)2N / 180.2 for additions or alterations. Solar water heating systems are documented on the NRCC-SAB 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)	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 multifamily residential occupancy.*
[3] *DHW systems serving 2 or more dwelling units are considered "Central Systems" for multifamily occupancies*

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.

STATE OF CALIFORNIA
Domestic Water Heating System — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name: 24X40 (PC 04-121369) - Wall AC	Report Page:	(Page 3 of 6)
	Date Prepared:	9/7/2023

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 multifamily and hotel/motel occupancies, compliance is demonstrated with requirements 110.3(c), 160.4, 170.2(d).

Mandatory Pipe Insulation All Occupancies

13	☐	For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see blow) except: • Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall abut securely against all framing members • Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Quality Insulation Installation (QII) as specified in the Reference Residential Appendix RA3.5. • Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 inches of attic insulation, shall not be required to have pipe insulation.
14	☒	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
15	☐	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) / 160.4(f). Pipe insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve.

TABLE 120.3-A / 160.4-A PIPE INSULATION THICKNESS

Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft^2 per °F)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in)			
			< 1	1 to < 1.5	1.5 to < 4	1.5 to < 4 Multifamily & Hotel/Motel
			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	2.0 in or R-16

STATE OF CALIFORNIA
Domestic Water Heating System — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name: 24X40 (PC 04-121369) - Wall AC	Report Page:	(Page 5 of 6)
	Date Prepared:	9/7/2023

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

Form/Title
NRCI-PLB-E - Must be submitted for all buildings

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no forms required for this project.

STATE OF CALIFORNIA
Domestic Water Heating System — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name: 24X40 (PC 04-121369) - Wall AC	Report Page:	(Page 2 of 6)
	Date Prepared:	9/7/2023

E. ADDITIONAL REMARKS

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

F. DOMESTIC HOT WATER EQUIPMENT

This table is used to demonstrate compliance with mandatory equipment requirements in 110.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.2(d) must also be demonstrated and with 141.0 / 180.1/ 180.2 for addition and alteration scopes.

Equipment Schedule: Water Heating Efficiency and Standby Loss

03	04		05		06			
System Name	A O Smith DEL-10	Exception to 140.5(c)/ 170.2(d)3		☐	Gas Service Water Heating System >= 1MMBtu/h[1]	Capacity-weighted Average Efficiency %		
07	08	09	10		11	12	13	14	15
Name or Item Tag	Equipment Type	Volume (gal)	Rated Input Capacity (Btu/h)	Max GPM/ First Hour Rating (FHR)	Rated Efficiency	Minimum Efficiency Required	Efficiency Unit	Designed Standby Loss	Maximum Standby Loss
A O Smith DEL-10	Consumer Rated Electric Storage	10	5,120	FHR >=75	0.95	0.93	UEF		

[1]*FOOTNOTE: In systems >= 1MMBtu/h with multiple units, gas water heaters with input capacity > 100,000 Btu/h may meet 90% Et requirements via an input capacity-weighted average.*

Water Heating Equipment All Occupancies

	Yes	No	Not Applicable	Requirement
18	☐	☐	☒	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-3.5. 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
21	☐	☐	☒	School buildings < 25,000 ft^2 and < 4 stories must install a heat pump water heating system per 140.5(a)1. Water heating systems serving an individual bathroom space may be an instantaneous electric water heater.

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name: 24X40 (PC 04-121369) - Wall AC	Report Page:	(Page 4 of 6)
	Date Prepared:	9/7/2023

H. DOMESTIC HOT WATER CONTROLS

This table is used to demonstrate compliance with control requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupancies, compliance is also demonstrated with requirements in 160.4(e) / 170.2(d).

	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 170.2(d) or 180.1(b)3 for additions.
05	☐	☐	☒	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per 170.2(d).
06	☐	☐	☒	Combustion air positive shut-off shall be provided per 160.4(3).on all newly installed commercial boilers as follows: • Boilers with input capacity >= 2.5 MMBtu/h, in which the boiler is designed to operate with a nonpositive vent static pressure • Boilers where one stack serves two or more boilers with a total combined input capacity per stack of 2.5 MMBtu/h.
07	☐	☐	☒	Boiler combustion air fans with motor >= 10 hp shall meet one of the following • The fan motor shall be driven by a variable speed drive OR • The fan motor shall include controls that limit the fan motor demand to <=30% of the total design wattage at 50% of the design air volume.
08	☐	☐	☒	Newly installed boilers with an input capacity (*d/gte/*) 5MMBtu/h and a steady state full-load combustion efficiency < 90% shall maintain excess (stack-gas) oxygen concentrations <= 5% by volume on a dry basis over firing rates of 20-100%. Combustion air volume shall be controlled with respect to firing rate or flue gas oxygen concentration. Use of a common gas and combustion air control linkage or jack shaft is prohibited.

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CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name: 24X40 (PC 04-121369) - Wall AC	Report Page:	(Page 6 of 6)
Project Address: Climate Zone 14	Date Prepared:	9/7/2023

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: LAL B. SAHGAL	Documentation Author Signature: *Lal Sahgal*
Company: LSA CONSULTING ENGINEERS	Signature Date:
Address: 83, WINDSWEPT WAY	CEA/ HERS Certification Identification (if applicable): M26885
City/State/Zip: MISSION VIEJO CA 92692	Phone: (949) 830-4746

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: Lal Sahgal	Responsible Designer Signature: *Lal Sahgal*
Company: LSA Consulting Engineers	Date Signed: 2023-09-07
Address: 83, Windswept Way	License: M26885
City/State/Zip: Mission Viejo Ca. 92692	Phone:

Mandatory Measures: The following notes (items) represent the Mandatory Measures for all buildings.

Heat pumps with supplementary electric resistance heaters shall have controls:

1) That prevent supplementary heater operation when the heating load can be met by the heat pump alone; and

2) In which the cut-on temperature for compression heating is higher than the cut-on temperature for supplementary heating, and the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating.

Sec. 110.2 (b)

The minimum rate of outdoor air required per Section 120.1 (b) 2 shall be supplied to each space at all time the space is usually occupied.

Sec. 120.1 (c) 3

The Lesser of the minimum rate of outdoor air required by Sec. 120.1 (b) 2, or three complete air changes shall be supplied to the entire building during the one-hour period immediately before the building is normally occupied.

Sec. 120.1 (c) 2

Hotel/Motel Guest Room Thermostats shall have numeric temperature set points in degrees F; and set point stops accessible only to authorized personnel, to restrict over-heating and over-cooling.

Sec. 120.2 (c)

All air distribution system ducts and plenums, including, but not limited to, building cavities, mechanical closets, air-handler boxes and support platforms used as ducts or plenums, shall be installed, sealed and insulated to meet the requirements of chapter 6 of the 2001 CMC. Supply-air and return-air ducts conveying heated or cooled air shall be insulated to a minimum installed level of R-8, unless ducts are in conditioned space.

Sec. 120.4 (a)

The thermostatic controls for HVAC systems shall meet the following requirements as applicable:

a) Each space conditioning zone shall be controlled by an individual thermostatic control that responds to temperature within the zone and meets the applicable requirements of Subsection (b).

b) Each Thermostatic control required by Subsection (a) shall be capable of being set locally or remotely by adjustment or selection of sensors to control:

1) Comfort heating down to 55°F or lower.

2) Comfort Cooling up to 85°F or higher.

3) Both heating and cooling, the thermostatic controls shall be capable of providing a temperature range or dead band of at least 5°F within which the supply of heating and cooling energy to the zone is shut off or reduced to a minimum.

Sec. 120.2 (a) & (b)

1) Outdoor air supply and exhaust equipment shall be installed with dampers that automatically close upon fan shutdown.

Sec. 120.2 (f)

2) Demand Control Ventilation Devices (CO2 sensors) shall be installed in accordance with Sec. 120.1 (c) 4.

Sec. 120.1 (c) 4

3) Each space-conditioning system shall be installed with controls that comply with Items 1 and 2 below:

1) Are capable of automatically shutting off the system during periods of non-use and shall have:

a) An automatic time switch control device complying with Sec. 119(c), with an accessible manual override that allows operation of the system for up to 4 hours; or
b) An occupancy sensor; or
c) A four-hour timer that can be manually operated.
d) EXCEPTION: Mechanical systems serving retail stores and associated malls, restaurants, grocery stores, churches, and theaters equipped with 7-day programmable timers.

2) Automatically restart and temporarily operate the system as required to maintain:
a) A setback heating thermostat set point, if the system provides mechanical heating; and
EXCEPTION: Area with the design winter outdoor temperature of greater than 32°F.
b) A setup cooling thermostat set point, if the system provides mechanical cooling.

EXCEPTION: Area with the design summer outdoor temperature of less than 100°F.
EXCEPTION: Systems serving hotel/motel guest rooms, if they have a readily accessible manual shut-off switch.

Sec. 120.2 (e)

4) The piping for all space conditioning and service water heating systems shall be insulated in accordance with TABLE 123-A.

Sec. 120.3

5) Service water heating systems and equipment shall meet the applicable requirements of the Appliance Efficiency Regulations as required by Sec. 110.1.

Sec. 110.3 (b)

6) Service hot water systems with circulating pumps or with electrical heat trace systems shall be capable of automatically turning off the system.

Sec. 110.3 (c) 2

7) Lavatories in public restrooms shall have controls that limit the water supply temperature to 110°F.

Sec. 110.3 (c) 3

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PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER — JIANNY D. FRANCISCO — C-38380 — 03/31/24 — CIVIL — STRUCTURAL — STATE OF CALIFORNIA — RST#22088

02/16/24

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APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
ENVELOPE AND NOTES

PROJECT NUMBER
22088

DRAWN BY
rMc/CG

CHECKED BY
RH/RT

DATE

SHEET NO.
M3.3
SHEET OF

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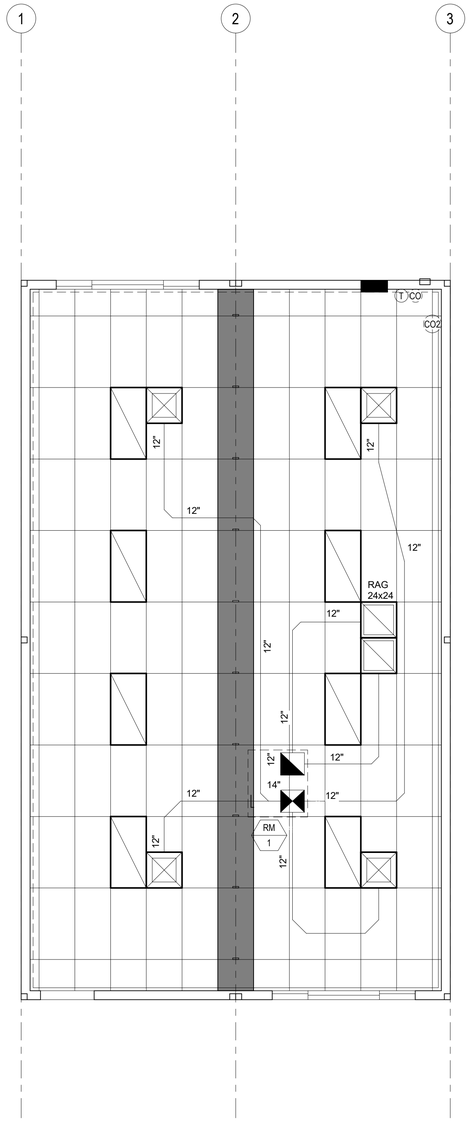
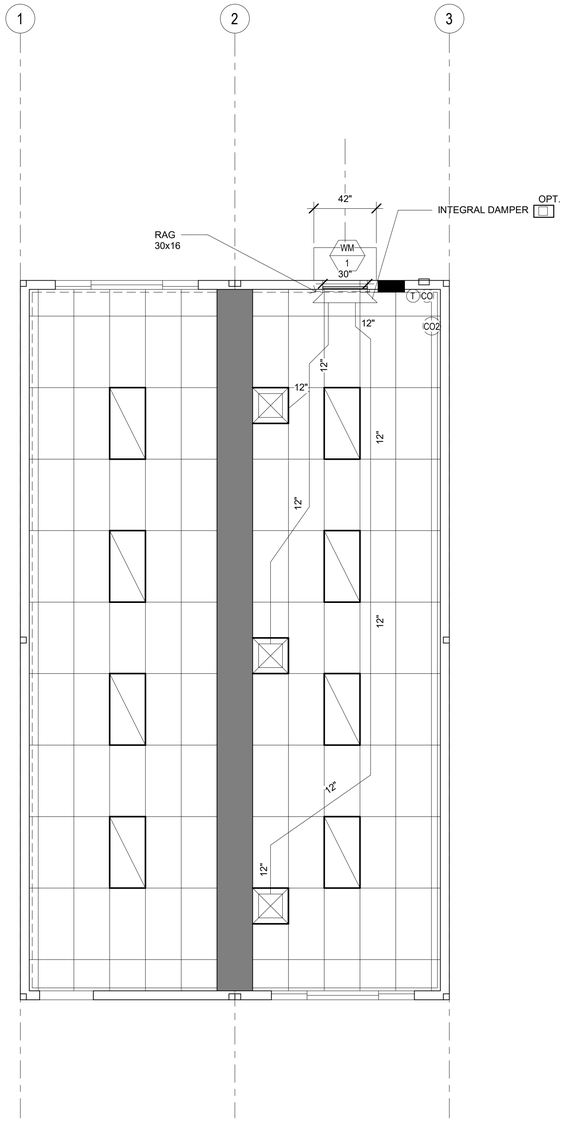


OPT. ROOF MOUNTED



OPT. WALL MOUNTED

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24x40 RM-1 MECH PLANS

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RECORDED PROFESSIONAL ENGINEER
MANNY D. FRANCISCO
No. C-53380
03/31/24
STRUCTURAL
STATE OF CALIFORNIA

RST#22088

02/16/24

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DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40'
EXPANDABLE TO
120' x 40'

SHEET TITLE

MECHANICAL
CEILING PLAN
24x40

PROJECT NUMBER 22088

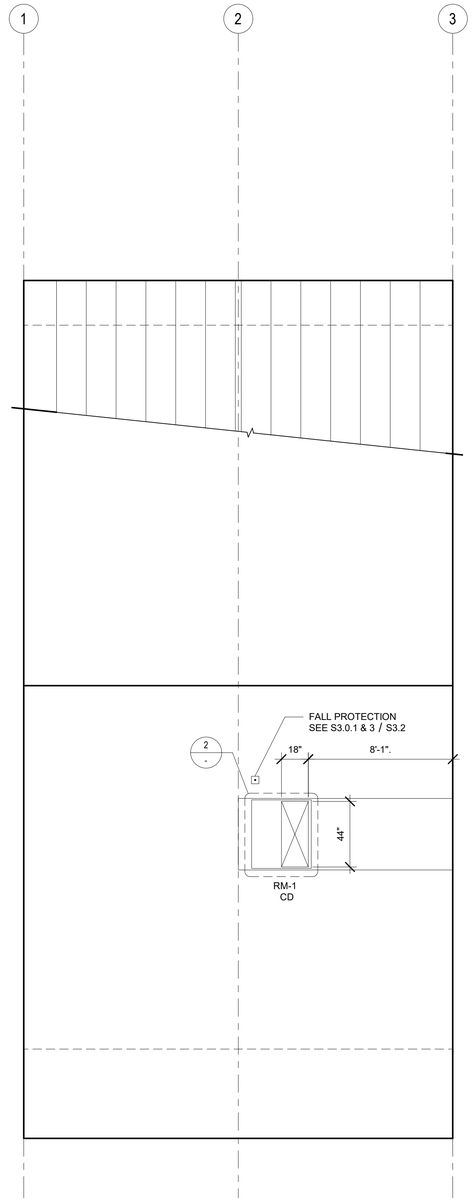
DRAWN BY rMc/SC

CHECKED BY RH/RT

DATE

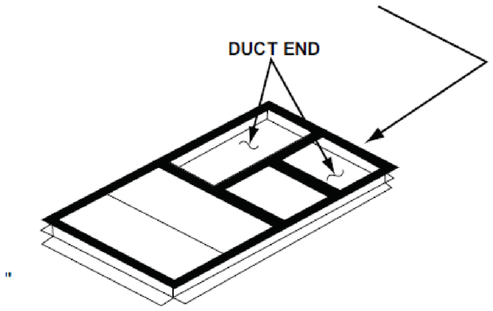
SHEET NO. M5.1

SHEET OF



1 *1/4" = 1'-0"*
MECHANICAL ROOF PLAN

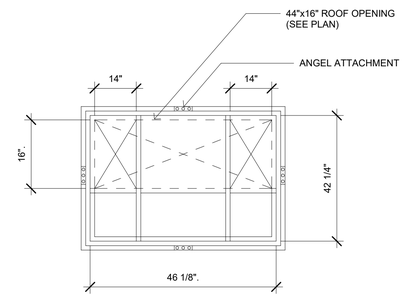
PLACE ALL SEAL STRIP IN PLACE BEFORE PLACING UNIT ON ROOF CURB.



A GASKET SHALL BE PLACED BETWEEN THE CURB AND THE HVAC UNIT FOR ALL ROOF MOUNTED SYSTEMS.
MASTIC SEALANT SHALL BE USED TO SEAL ALL SEAMS BETWEEN THE HVAC UNIT, THE CURB, PLENUMS, AND DUCTS.

FOR ROOF MOUNTED HVAC SYSTEMS, THE SUPPLY AND RETURN DUCTS SHALL BE THE SAME SIZE AND ALIGN WITH THE HVAC UNIT.

NOTE: PER CBC 1015.6, - EXCEPTION, GUARDRAILS ARE NOT REQUIRED WHERE PERMANENT FALL RESTRAINT ANCHORAGE DEVICES ARE AFFIXED & SHALL BE PLACED NOT MORE THAN 10FT FROM THE ROOF EDGE.



NOTE: SEE 3 / S3.2 FOR FALL PROTECTION

2 *1/2" = 1'-0"*
HEAT PUMP CURB PLAN VIEW

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APP: 04-123059 PC
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SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

MECHANICAL ROOF MOUNT 24x40

PROJECT NUMBER

22088

DRAWN BY

rMc/SC

CHECKED BY

RH/RT

DATE

SHEET NO.

M5.2

SHEET OF

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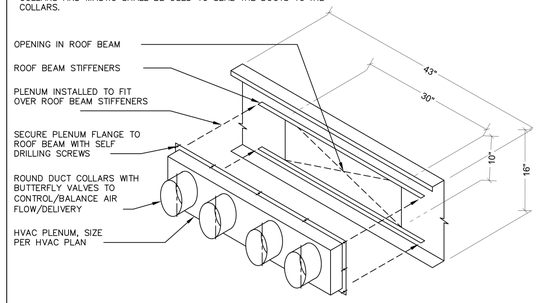
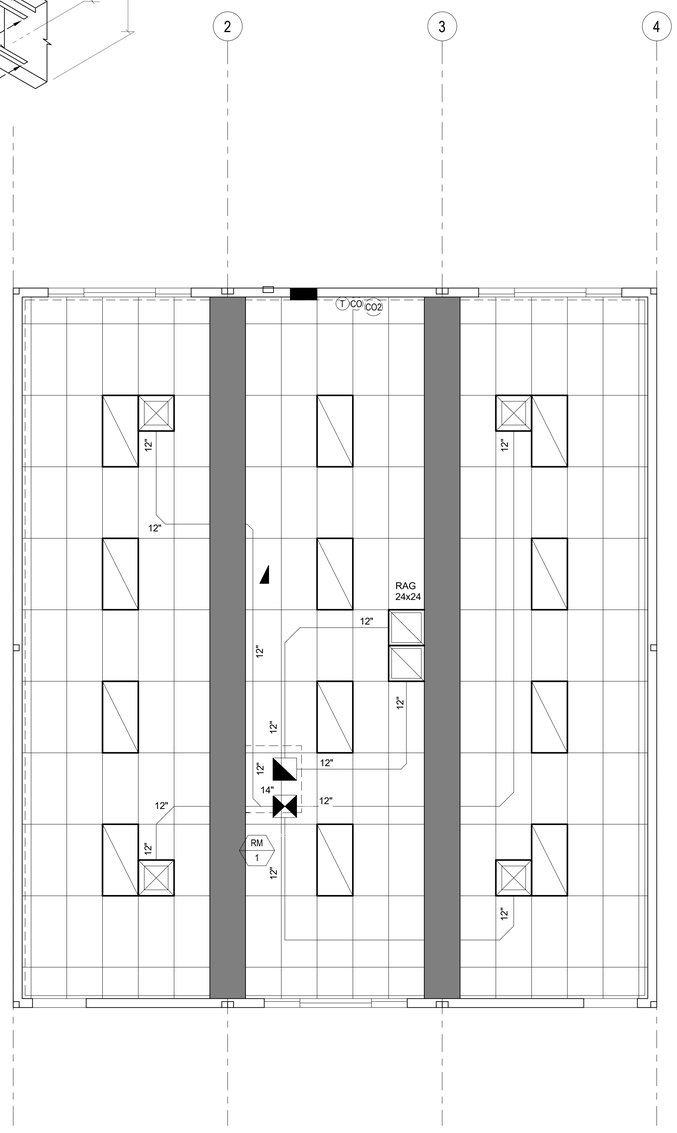
NOTES:

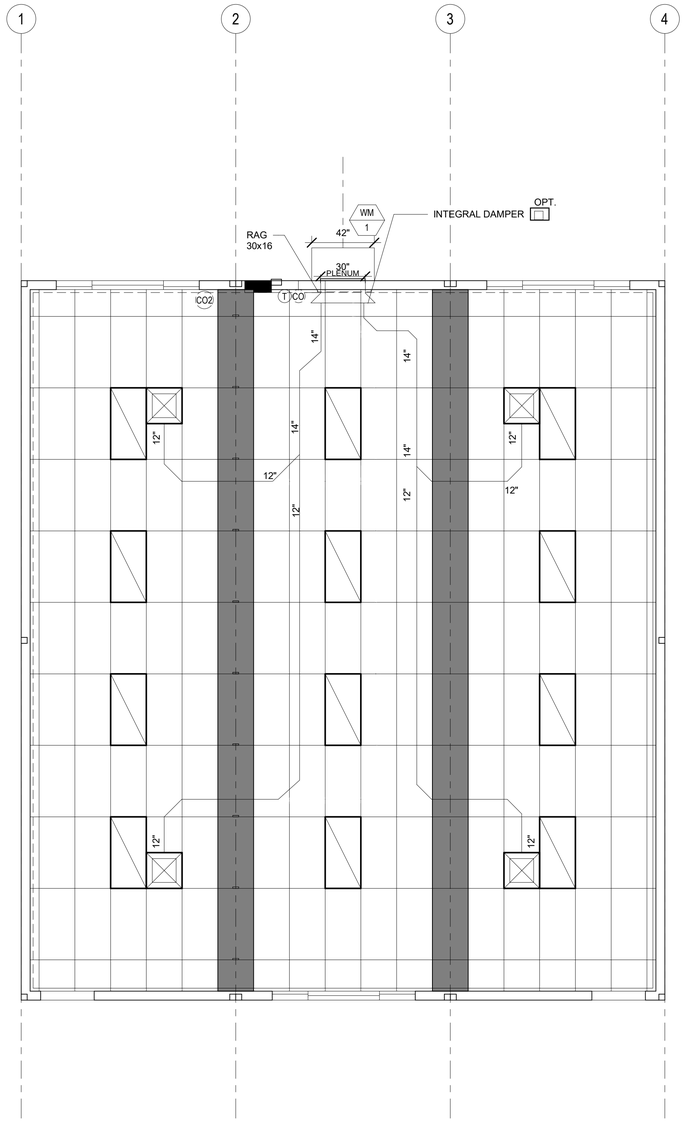
1) MASTIC SEALANT SHALL BE USED TO SEAL ALL SEAMS BETWEEN THE PLENUM AND ROOF BEAM.
2) THE SUPPLY DUCTS SHALL BE ATTACHED TO THE PLENUM COLLARS AND MASTIC SHALL BE USED TO SEAL THE DUCTS TO THE COLLARS.



6 ***NTS***
WALL MT. HVAC PLENUM



☐ OPT. ROOF MOUNTED



☐ OPT. WALL MOUNTED

1 ***1/4" = 1'-0"***
36x40 WM-1 MECH PLAN

6/15/2021 11:53:35 PM C:\Users\User\Documents\20093 - Aries, 24x40 PC - MainFile - Low Seismic_6.7_CESAR24D63.rvt

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APP: 04-123059 PC
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SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
MECHANICAL CEILING PLAN 36x40

PROJECT NUMBER
22088

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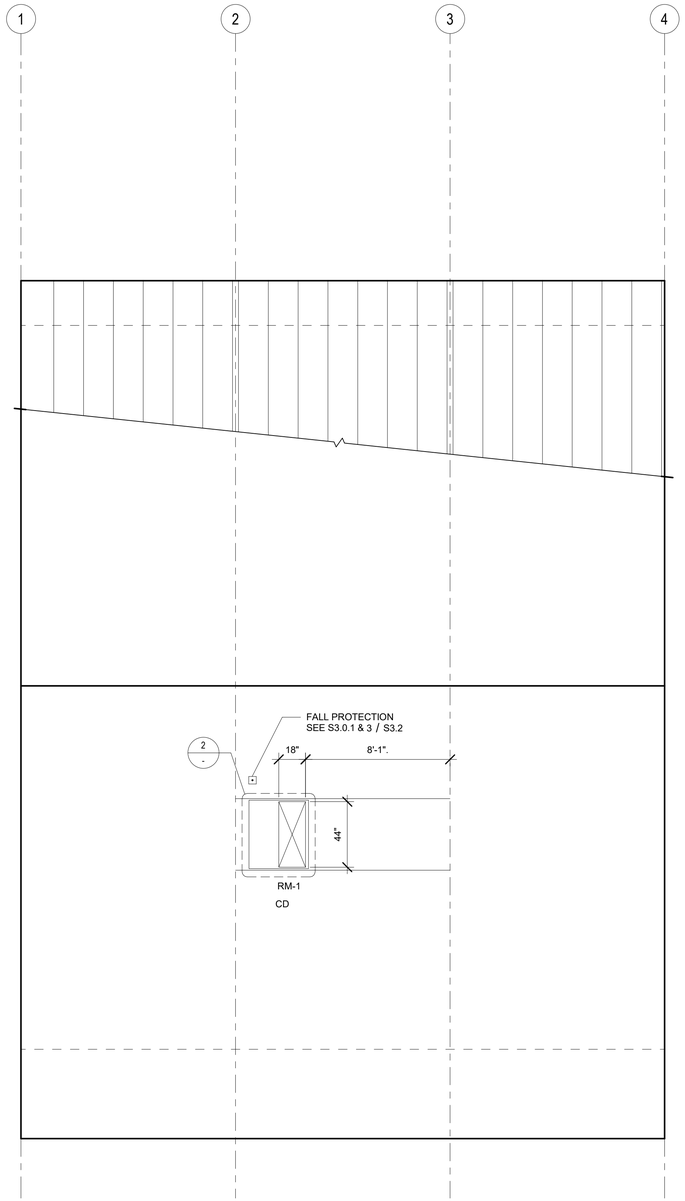
DATE

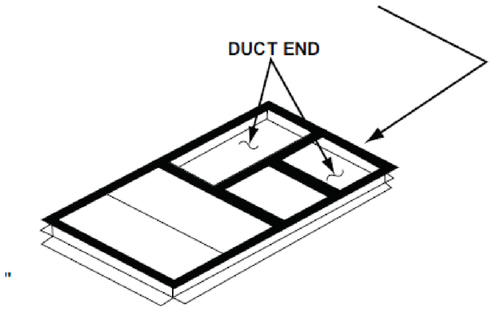
SHEET NO.
M6.1

SHEET OF



1 **1/4" = 1'-0"**
MECHANICAL ROOF PLAN

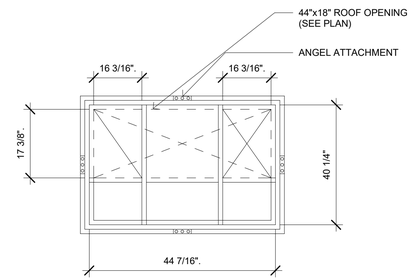
PLACE ALL SEAL STRIP IN PLACE BEFORE PLACING UNIT ON ROOF CURB.



A GASKET SHALL BE PLACED BETWEEN THE CURB AND THE HVAC UNIT FOR ALL ROOF MOUNTED SYSTEMS.
MASTIC SEALANT SHALL BE USED TO SEAL ALL SEAMS BETWEEN THE HVAC UNIT, THE CURB, PLENUMS, AND DUCTS.

FOR ROOF MOUNTED HVAC SYSTEMS, THE SUPPLY AND RETURN DUCTS SHALL BE THE SAME SIZE AND ALIGN WITH THE HVAC UNIT.

NOTE: PER CBC 1015.6, - EXCEPTION, GUARDRAILS ARE NOT REQUIRED WHERE PERMANENT FALL RESTRAINT ANCHORAGE DEVICES ARE AFFIXED & SHALL BE PLACED NOT MORE THAN 10FT FROM THE ROOF EDGE.



NOTE: SEE 3 / S3.2 FOR FALL PROTECTION

2 **1/2" = 1'-0"**
HEAT PUMP CURB PLAN VIEW

C:\Users\User\Documents\20093 - Aries, 24x40 PC - MainFile - Low Seismic_6.7_CES\AR24D63.rvt
6/15/2021 11:53:37 PM

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
11590 W Bernardo Court, Suite 100
San Diego, CA 92127
www.rstavares.com

PROFESSIONAL STAMP

02/16/24

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CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

MECHANICAL ROOF MOUNT 36x40

PROJECT NUMBER

22088

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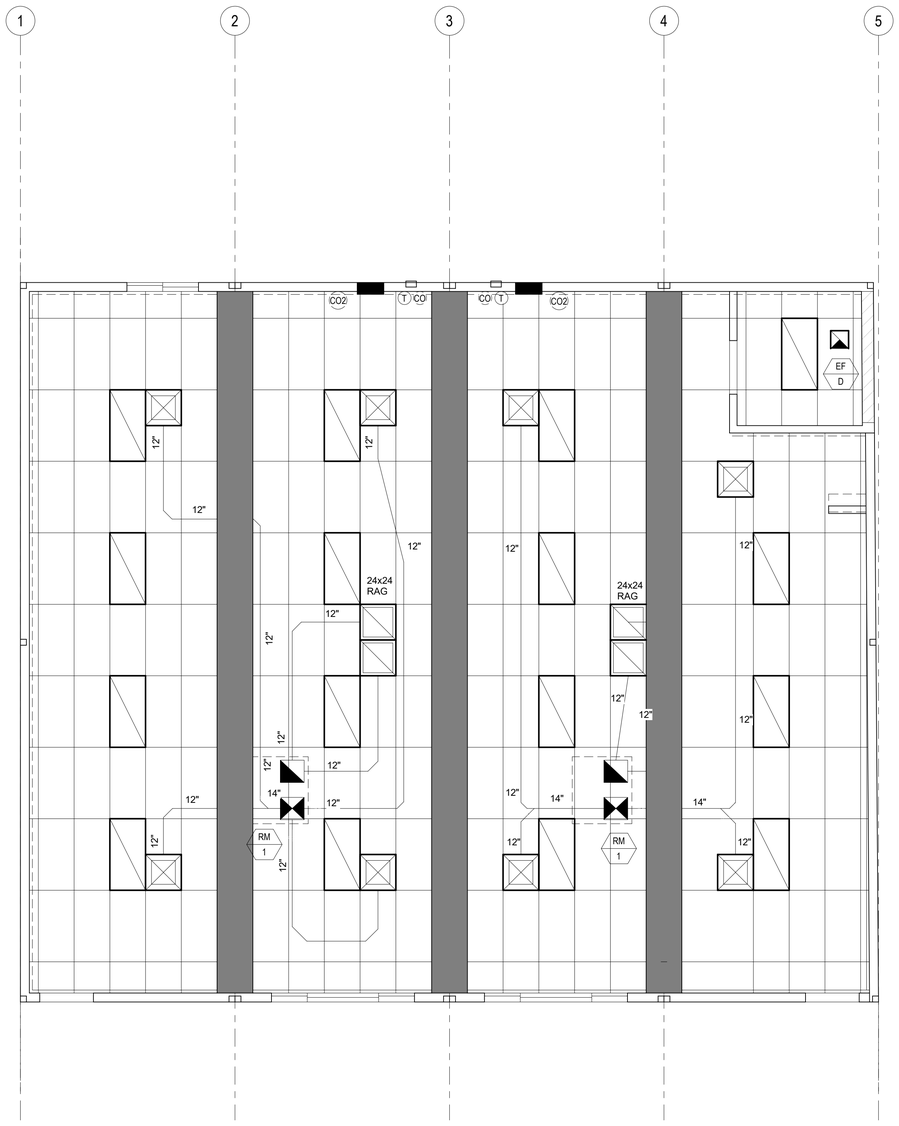
DATE

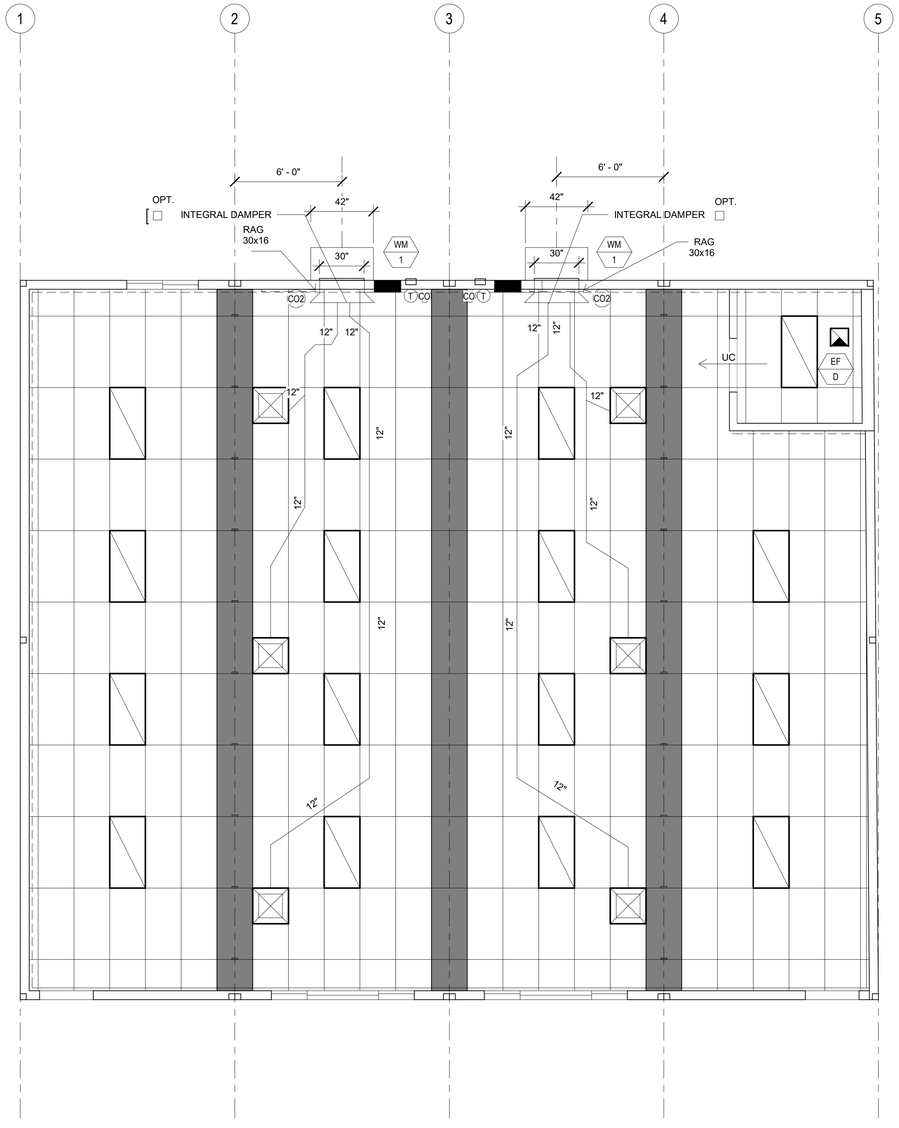
SHEET NO.

M6.2

SHEET OF



☐ OPT. ROOF MOUNTED



☐ OPT. WALL MOUNTED

1 *1/4" = 1'-0"*
48x40 WM-1 MECH PLAN

6/15/2021 11:53:39 PM C:\Users\User\Documents\20093 - Aries, 24x40 PC - MainFile - Low Seismic_6.7_CES&R24D63.rvt

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RECORDED PROFESSIONAL ENGINEER MANNY D. FRANCISCO JR. No. C-53380 03/31/24 CIVIL STRUCTURAL STATE OF CALIFORNIA

RST#22088

02/16/24

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DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
MECHANICAL CEILING PLAN 48x40 thru 120x40

PROJECT NUMBER
22088

DRAWN BY
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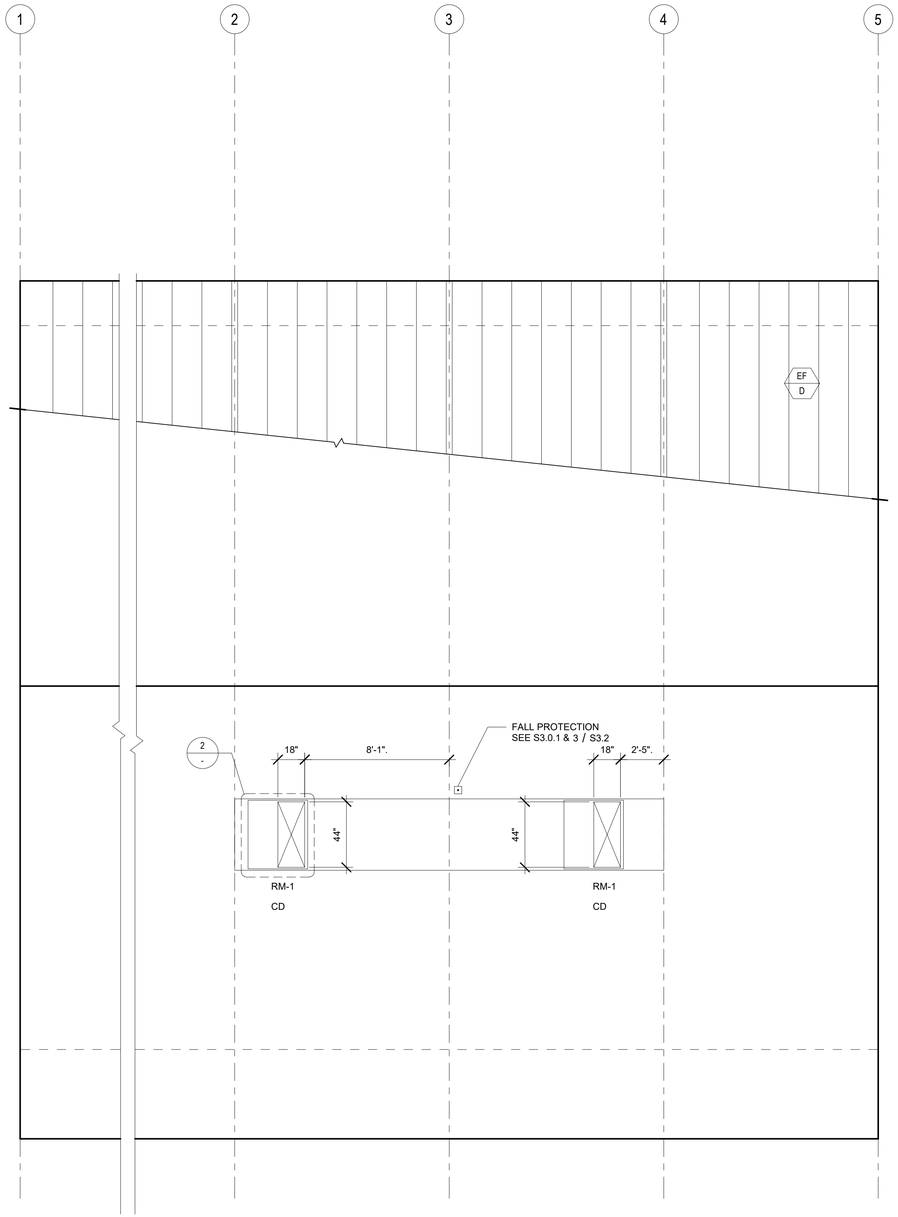
RH/RT

DATE

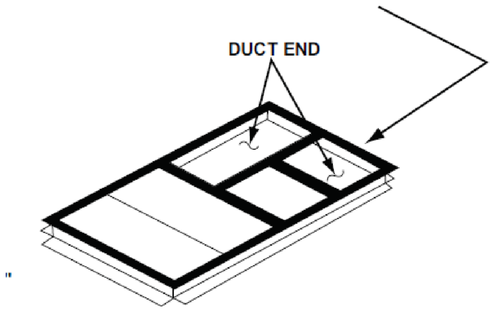
SHEET NO.
M7.1

SHEET OF



1 **1/4" = 1'-0"**
MECHANICAL ROOF PLAN

PLACE ALL SEAL STRIP IN PLACE BEFORE PLACING UNIT ON ROOF CURB.



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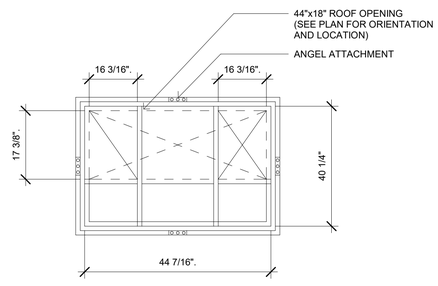

NOTE: SEE ARCH FOR SAFETY RAIL SYSTEM

2 **1/2" = 1'-0"**
HEAT PUMP CURB PLAN VIEW

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

MECHANICAL ROOF MOUNT 48x40 thru 120x40

PROJECT NUMBER

22088

DRAWN BY

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DATE

SHEET NO.

M7.2

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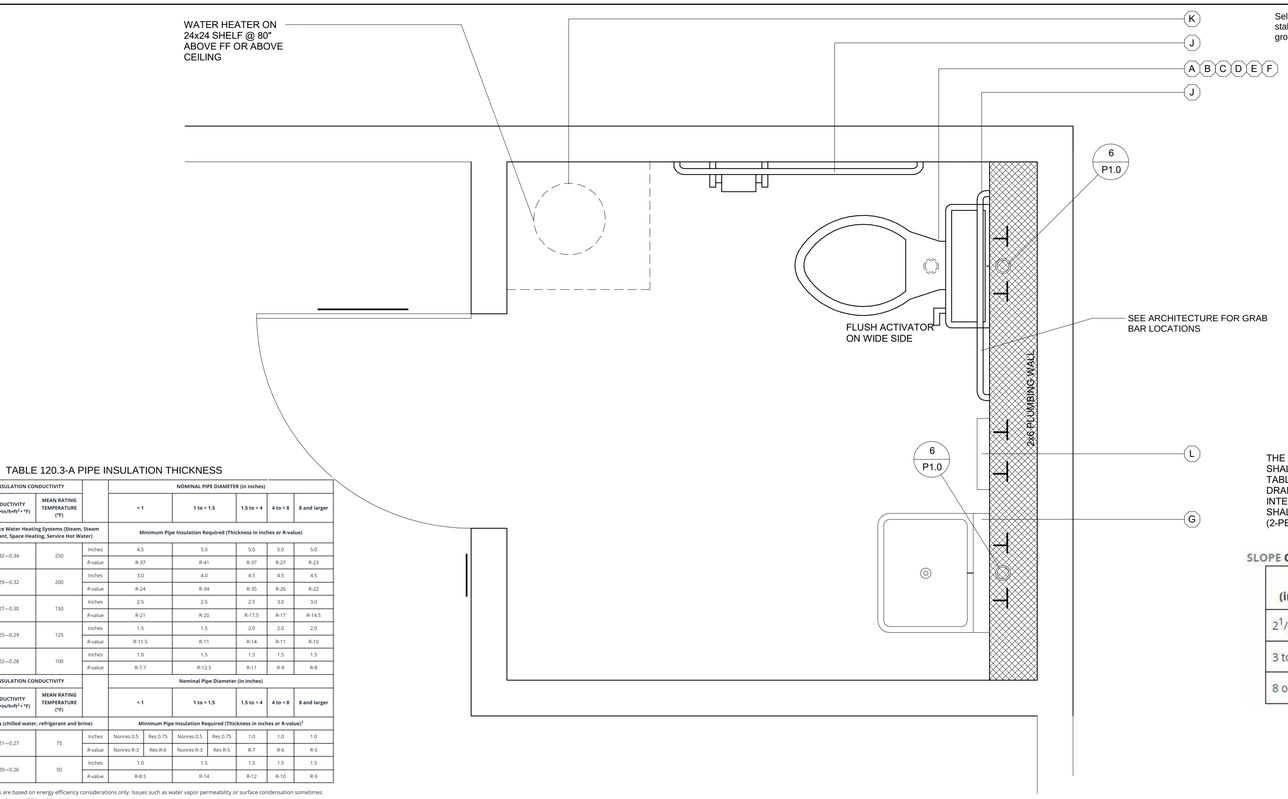


Selected check box applies to the bathrooms with multiple stalls. the single toilet options are fixed at 12 and up age groups. All D.F. will match the selected age group.

***AGE GROUP	DIMS
☐ ADA; ADULT	18"
☐ 12 AND UP	18"
☐ 9 THROUGH 12	15" TO 17"
☐ 5 THROUGH 8	12" TO 15"
☐ 3 AND 4	12"

(IAW CBC 11B-604.2 AND TABLE 11B-604.9) TYP. WHERE APPLIES. SEE A3.1 MOUNTING TABLE.

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	COLD WATER	HOT WATER	WASTE	VENT	FIXTURE DESCRIPTION (AS CALLED OUT OR EQUAL)
A	[ADULT] WATER CLOSET TANK TYPE (ACCESSIBLE)	1/2"	-	3"	2"	STD: PROFLO ADA PF9403, (1.28 GPF) ALT: AMERICAN STANDARD ADA 2758.128, 17" HIGH, VITREOUS CHINA ELONGATED RIM, TANK TYPE; 12" ROUGH-IN; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT
B	[AGE 9 - 12] WATER CLOSET TANK TYPE (ACCESSIBLE)	1/2"	-	3"	2"	STD: PROFLO STANDARD PF9300, (1.28 GPF) ALT: AMERICAN STANDARD 2832.128, 16" HIGH, VITREOUS CHINA ELONGATED RIM, TANK TYPE; 12" ROUGH-IN; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT
C	[AGE 3 - 8] WATER CLOSET TANK TYPE (ACCESSIBLE & NON-ACCESSIBLE)	1/2"	-	3"	2"	STD: PROFLO PF1704BB, (1.28 GPF) ALT: AMERICAN STANDARD 2315.016 BABY DEVORO 10" HIGH, 10" ROUGH-IN, VITREOUS CHINA ELONGATED RIM, TANK TYPE; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT
D	[ADULT] WATER CLOSET FLOOR MTD/FLUSH (ACCESSIBLE)	1"	-	3"	2"	STD: PROFLO ADA PF1723, (1.28 GPF) ALT: AMERICAN STANDARD ADA 3043.001 "MADERA" 16 3/4" HIGH, VITREOUS CHINA ELONGATED RIM, SIPHON JET, 10" ROUGH-IN; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE
E	[AGE 9 - 12] WATER CLOSET FLOOR MTD/FLUSH (ACCESSIBLE)	1"	-	3"	2"	STD: PROFLO STANDARD PF1721, (1.28 GPF) ALT: AMERICAN STANDARD 2234.001 "MADERA" 15" HIGH, VITREOUS CHINA ELONGATED RIM, SIPHON JET,12" ROUGH-IN; OLSONITE 10CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE
F	[AGE 3 - 8] WATER CLOSET FLOOR MTD/FLUSH (ACCESSIBLE & NON-ACCESSIBLE)	1"	-	3"	2"	STD: PROFLO PF1700BB (1.28 GPF) ALT: AMERICAN STANDARD BABY DEVORO 2282.010 VITREOUS CHINA ELONGATED RIM, 10" ROUGH-IN LOW CONSUMPTION CLOSET BOWL; OLSONITE 126CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSH VALVE
G	LAV (ACCESSIBLE)	1/2"	-	2"	1 1/2"	STD: AMERICAN STANDARD 0355.012 LUCERNE ALT: CRANE 1412-20 "HARWICH" 20x18" VITREOUS CHINA JAY R SMITH #722 CONCEALED HANGER; VALLEY #NL805IPS SINGLE HANDLE FAUCET (AMERICAN STANDARD 9141.011 TO BE USED FOR AGES 5-8) (0.5 GPM)
H	FLOOR DRAIN	-	-	2"	1 1/2"	JAY R SMITH #2005YA-02-P050-NB. FLOOR DRAIN TAPPED FOR PRIMER. 5" NICKEL BRONZE STRAINER w/ 1/2" MAX. STRAINER OPENINGS IN ALL DIRECTIONS
I	TRAP PRIMER	1/2"	-	-	-	PR-500 WITH 8"x12" LOCKABLE BOX, 1/2" BALL SHUT-OFF VALVE, AND PPP DU-U FRESH WATER DISTRIBUTION SYSTEM
J	GRAB BAR	-	-	-	-	BOBRICK B-6806-1-1/2 OC STAINLESS STEEL GRAB BAR - STAIN FINISH; 36" LONG ON BACK AND 42" ON SIDE
K	WATER HEATER	3/4"	3/4"	-	-	☐ A.O. SMITH #DEL-6 (6 GALLON) ☐ A.O. SMITH #DEL-10 (10 GALLON)
L	"INSTANT WATER HEATER	1/2"	1/2"	-	-	EEMAX #SP3012, 120V, 3.0KW, 25A

THE SLOPE OF A HORIZONTAL DRAINAGE PIPE SHALL BE NOT LESS THAN THAT INDICATED IN TABLE 704.1 EXCEPT THAT WHERE THE DRAINAGE PIPING IS UPSTREAM OF A GREASE INTERCEPTOR, THE SLOPE OF THE PIPING SHALL BE NOT LESS THAN 1/4 INCH PER FOOT (2-PERCENT SLOPE).

SLOPE OF HORIZONTAL DRAINAGE PIPE

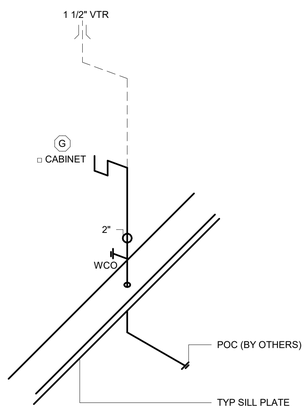
SIZE (inches)	MINIMUM SLOPE (inch per foot)
$2^1/_2$ or less	$^1/_4$[a]
3 to 6	$^1/_8$[a]
8 or larger	$^1/_{16}$[a]

GENERAL NOTE:
UTILITIES THAT SPAN BETWEEN UNITS OR ACROSS SEISMIC SEPARATION JOINTS MUST BE DESIGNED WITH A FLEXIBLE CONNECTION THAT CAN ACCOMMODATE DIFFERENTIAL MOVEMENTS

TABLE 120.3-A PIPE INSULATION THICKNESS

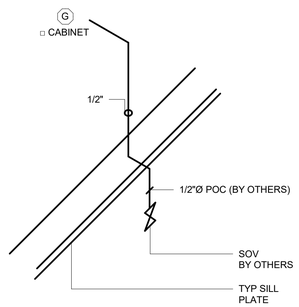
FLUID OPERATING TEMPERATURE RANGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE DIAMETER (in inches)					
	CONDUCTIVITY (in Btu·inch/h·ft²·°F)	MEAN RATING TEMPERATURE (°F)	< 1	1 to < 1.5	1.5 to < 4	4 to < 8	8 and larger
Space heating and Service Water Heating Systems (Steam, Steam Condensate, Refrigerant, Space Heating, Service Hot Water)			Minimum Pipe Insulation Required (Thickness in inches or R-value)				
Above 350	0.32–0.34	250	Inches 4.5	5.0	5.0	5.0	5.0
			R-value R-37	R-41	R-37	R-27	R-23
251—350	0.29–0.32	200	Inches 3.0	4.0	4.5	4.5	4.5
			R-value R-24	R-34	R-35	R-26	R-22
201—250	0.27–0.30	150	Inches 2.5	2.5	2.5	3.0	3.0
			R-value R-21	R-20	R-17.5	R-17	R-14.5
141—200	0.25–0.29	125	Inches 1.5	1.5	2.0	2.0	2.0
			R-value R-11.5	R-11	R-14	R-11	R-10
105—140	0.22–0.28	100	Inches 1.0	1.5	1.5	1.5	1.5
			R-value R-7.7	R-12.5	R-11	R-9	R-8
FLUID OPERATING TEMPERATURE RANGE (°F)	INSULATION CONDUCTIVITY		Nominal Pipe Diameter (in inches)				
	CONDUCTIVITY (in Btu·inch/h·ft²·°F)	MEAN RATING TEMPERATURE (°F)	< 1	1 to < 1.5	1.5 to < 4	4 to < 8	8 and larger
Space cooling systems (chilled water, refrigerant and brine)			Minimum Pipe Insulation Required (Thickness in inches or R-value)[1]				
40—60	0.21—0.27	75	Inches Nonres 0.5 Res 0.75	Nonres 0.5 Res 0.75	1.0	1.0	1.0
			R-value Nonres R-3 Res R-4	Nonres R-3 Res R-5	R-7	R-6	R-5
Below 40	0.20—0.26	50	Inches 1.0	1.5	1.5	1.5	1.5
			R-value R-8.5	R-14	R-12	R-10	R-9

1. These thicknesses are based on energy efficiency considerations only. Issues such as water vapor permeability or surface condensation sometimes require vapor retarders or additional insulation.



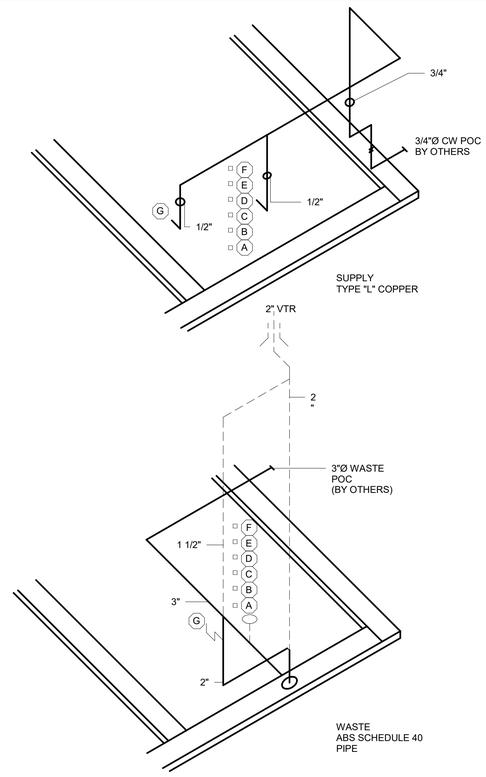
ABS SCHEDULE 40 PIPE

5 *1/2" = 1'-0"*
LAV WASTE

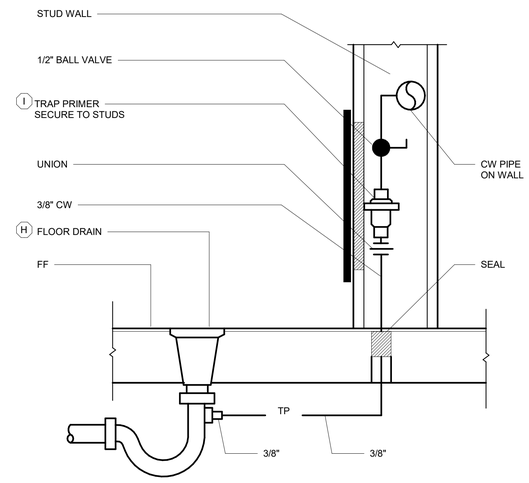


TYPE 'L' COPPER

3 *1/2" = 1'-0"*
LAV COLD WATER SUPPLY



9 *1/2" = 1'-0"*
SINGLE OCC PLUMBING ISO



PIPES INSULATION PER CODE 120.3 AND TABLE 120.3-A
- 1/2" INSULATION R-3 AROUND MIN.

6 *1/2" = 1'-0"*
TRAP PRIMER TO FLOOR DRAIN

PROJECT SPECIFIC STATE AGENCY APPROVAL

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DESIGN ● CONSULTING ● PROJECT MGT
11590 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

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Revision Schedule

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PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
TYPICAL PLUMBING DETAILS

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
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DATE

SHEET NO.
P1.0
SHEET OF

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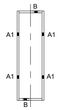
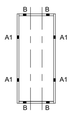


VENT AREA REQ = 960 SF = 6.4 SF
150

VENT AREA AVAIL = (4)2.175 + (2)*1.875 = 12.5 SF

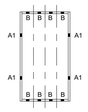
NET AREA AVAIL = 0.6 * 12.5 = 7.5 SF



VENT AREA REQ = 1440 SF = 9.6 SF
150

VENT AREA AVAIL (4)2.175 + (4)*1.875 = 16.25 SF

NET AREA = 0.6 * 16.25 = 9.75 SF



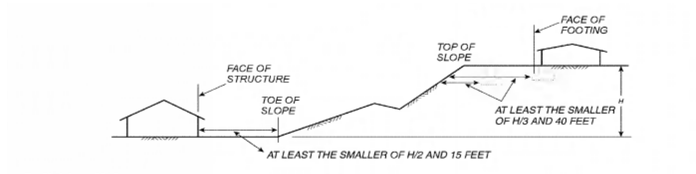
VENT AREA REQ = 1920 SF = 12.8 SF
150

VENT AREA AVAIL (4)2.175 + (8)*1.875 = 23.75 SF

NET AREA = 0.6 * 23.75 = 14.25 SF

NOTE: WOOD FOUNDATION EXPANDABLE TO 48x40

1 *50+15 VENTING LAYOUT*



For SI: 1 foot = 304.8 mm.

FIGURE 1808.7.1
FOUNDATION CLEARANCES FROM SLOPES

3 *1/4" = 1'-0"*
FOUNDATION SETBACKS

KEY PLAN VENTING SCHEDULE
VENT "A1" (SIDEWALL): 3'-6" x 7.5" = **2.188 SF VENTILATION AVAILABLE**
VENT "B" (ENDWALL): 3'-0" x 7.5" = **1.875 SF VENTILATION AVAILABLE**

SEE 2/F1.40 FOR REFERENCE

9 *1/4" = 1'-0"*
KEY PLAN VENTING SCHEDULE FOR 50+15 PSF

WOOD FOUNDATION PLATE SCHEDULE								
50 + 15 PSF								
PLATES	END WALL	SIDE WALL	MODLINE ENDS	MODLINE INTERIOR	ML "B" ENDS	ML "B" INTERIOR	SEPERATION ENDS	SEPERATION INTERIOR
BOOSTER	2x4	2x4	2x6	2x6	2x8	2x8	2x4	2x4
TOP	2x6	2x6	2x8	2x8	2x10	2x10	2x6	2x6
BASE	2x8	2x8	2x10	2x10	2x12	2x12	2x8	2x8
SILL	2x12	2x12	(6) 2x12, 24" LONG	(6) 2x12, 24" LONG	(8) 2x12, 24" LONG	(8) 2x12, 24" LONG	2x12	2x12

* MODLINE "B" - MODLINE W/ EXT. WALLS BACK-TO-BACK SEE F1.14

8 *1/4" = 1'-0"*
WOOD FOUNDATION PLATE SCHEDULE FOR 50+15

1. WOOD FOUNDATION CONSTRUCTION IS ALLOWED FOR BUILDINGS WITH 2160 SF AND UNDER.
2. SILL PLATES SHALL BE OF FOUNDATION GRADE REDWOOD OR PRESERVATIVE PRESURE TREATED MATERIAL AND IS ALLOWED TO REST DIRECTLY ON SOIL OR PAVEMENT. MATERIALS ABOVE THE SILL PLATES ARE NOT CONTROLLED BY THIS REQUIREMENT.
3. VENTS THAT OCCUR INSIDE RAMP BOUNDARIES SHALL REQUIRE A VENT OF EQUAL SIZE AT RAMP SKIRTING.
4. TO PREVENT SLIDING; A 1 INCH G.S. SCHEDULE 40 PIPE (1.315" ACTUAL O.D.) SHALL BE ATTACHED TO SILL PLATE AND ANCHORED INTO THE EARTH W/ 12" MIN EMBEDMENT (PROJECTED VERTICALLY) @ 10' - 0" MAX O.C. AND SHALL BE LOCATED A MAXIMUM OF 2'-0" FROM CORNERS
5. STACKED FOUNDATION MEMBERS SHALL BE FASTENED TO ONE ANOTHER W/ CORROSION RESISTANT NAILS.
6. WOOD FOUNDATION HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 1,000 PSF IN ABSENSE OF A SOILS INVESTIGATION REPORT PROVIDED BY A LICENSED GEOTECHNICAL ENGINEER.
7. REFER TO ARCHITECT'S SITE PLAN FOR DRAINAGE.

7 *1/4" = 1'-0"*
NOTES FOR 50+15

(2) 16d NAILS SILL TO BASE CONNECTION FOR 50+15 SEE 7 / F1.10			
	ENDWALL	SIDEWALL	SEPERATION
24x40	7" O.C	12" O.C	12" O.C
36x40	7" O.C	12" O.C	12" O.C
48x40	7" O.C	12" O.C	12" O.C

6 *1/4" = 1'-0"*
NAILING SCHEDULE FOR 50+15

TIE PLATE SCHEDULE		
	END WALL	SIDE WALL
24x40	5	3
36x40	7	3
48x40	10	3

4 *1/4" = 1'-0"*
TIE PLATE SCHEDULE FOR 50+15

PROJECT SPECIFIC STATE AGENCY APPROVAL

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11590 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRANCISCO
No. 63380
03/31/24
STRUCTURAL
STATE OF CALIFORNIA
RST#22088
02/16/24

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APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

WOOD FOUNDATION NOTES SCHED FOR BLDG W/ 50+15

PROJECT NUMBER

22088

DRAWN BY

rMc/SC

CHECKED BY

JA/RT

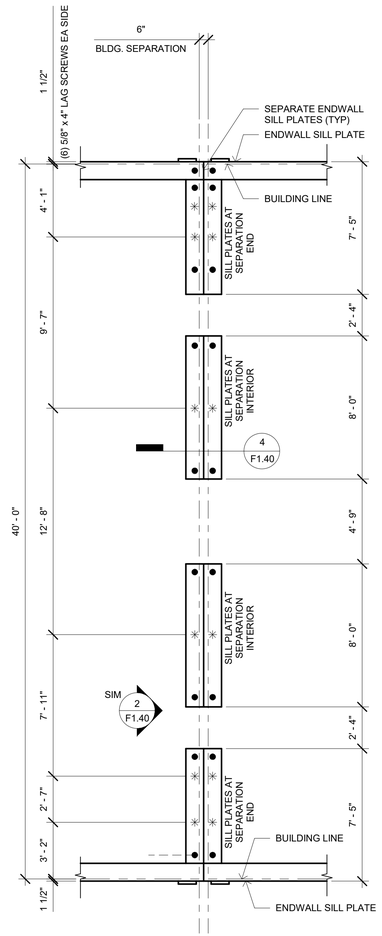
DATE

SHEET NO.

F1.10

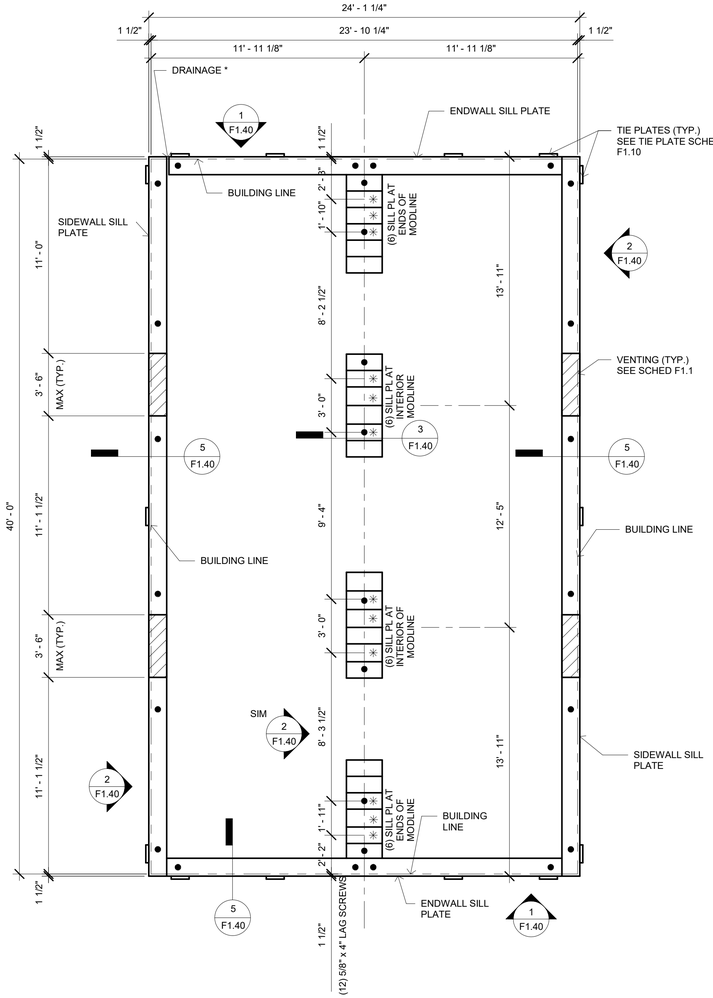
SHEET OF

6/16/2021 7:44:47 AM C:\Users\User\Documents\RST#20132 - Class Leasing_PC 24x40 to 120x40 HS_detached_CES&R24D63.rvt



SYMBOLS LEGEND
✳ LAG SCREWS (6 TOTAL EACH SIDE)
● SILL RESTRAINTS (SEE NOTE #4, 7 / F1.10)

3 *1/4" = 1'-0"*
FOOTING AT SEPARATION



* REFER TO ARCHITECTURAL SITE PLAN FOR DRAINAGE

SYMBOLS LEGEND
✳ LAG SCREWS (12 TOTAL)
● SILL RESTRAINTS (SEE NOTE #4, 7 / F1.10)

2 *1/4" = 1'-0"*
24x40 FOUNDATION PLAN

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
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11590 W Bernardo Court, Suite 100
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PROFESSIONAL STAMP

RECORDED PROFESSIONAL ENGINEER
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C-53380
03/31/24
CIVIL
STRUCTURAL
STATE OF CALIFORNIA
RST#22088
02/16/24

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DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

WOOD FOUNDATION PLAN 24x40 BLDG W/ 50+15

PROJECT NUMBER

22088

DRAWN BY

rMc/SC

CHECKED BY

JA/RT

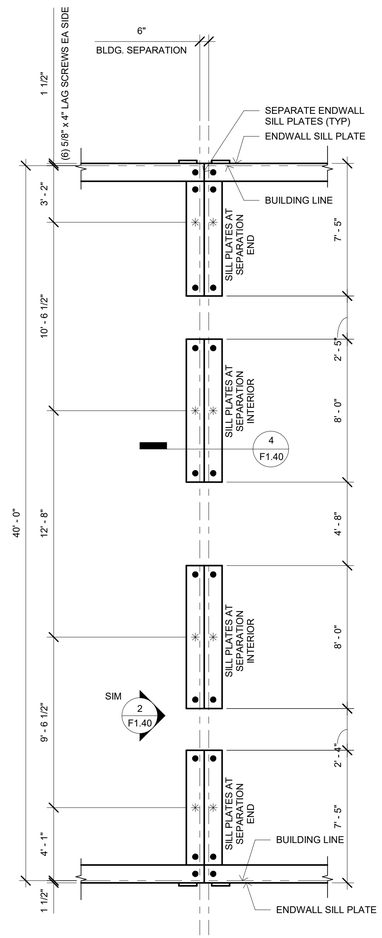
DATE

SHEET NO.

F1.11

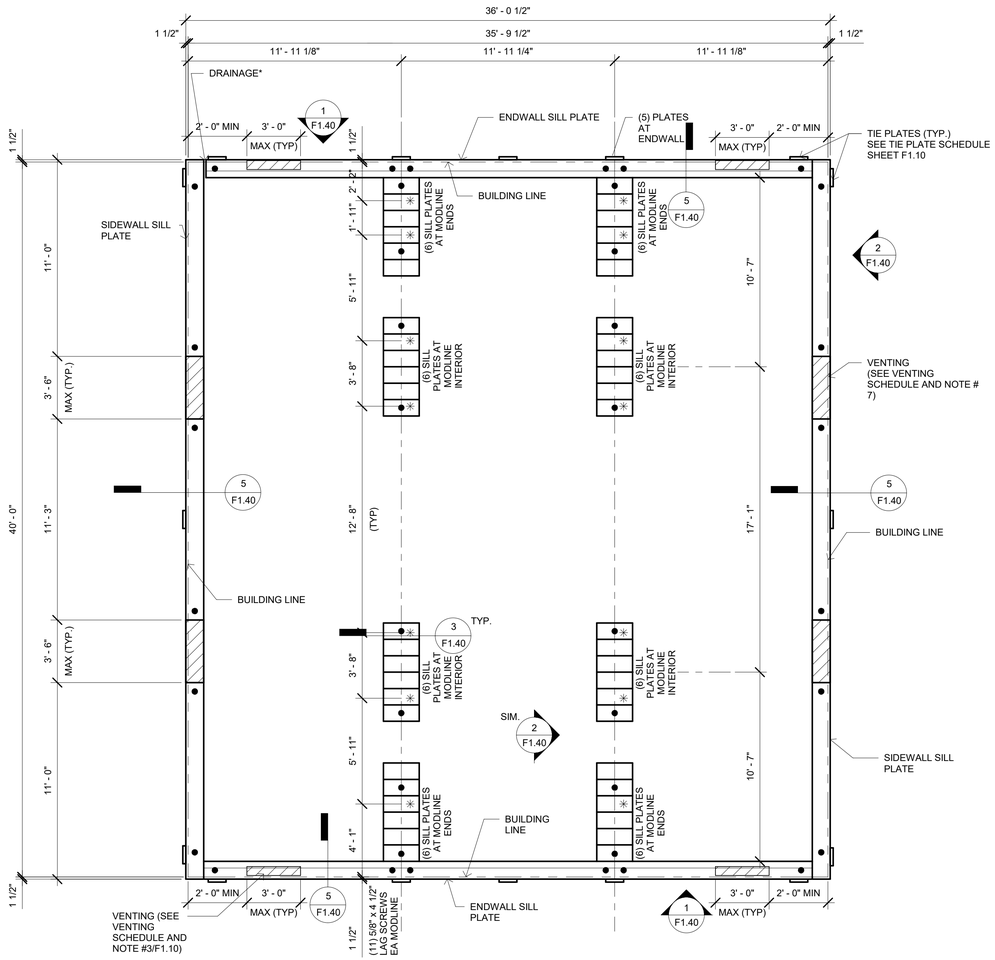
SHEET OF

6/16/2021 7:44:48 AM C:\Users\User\Documents\RST#20132 - Class Leasing_PC 24x40 to 120x40 HS_detached_CES&R24D63.rvt



SYMBOLS LEGEND
✳ LAG SCREWS(6 TOTAL EACH SIDE)
● SILL RESTRAINTS (SEE NOTE #4,7 / F1.10)

2 *1/4" = 1'-0"*
FOOTING AT SEPARATION 36x40 FOR 50+15



* REFER TO ARCHITECTURAL SITE PLAN FOR DRAINAGE

SYMBOLS LEGEND
✳ LAG SCREWS (11 TOTAL)
● SILL RESTRAINTS (SEE NOTE #4,7 / F1.10)

1 *1/4" = 1'-0"*
FOUNDATION PLAN 36x40 FOR 50+15

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
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PROFESSIONAL STAMP

RECORDED PROFESSIONAL ENGINEER MANNY D. FRANCO C-3380 03/31/24 STRUCTURAL STATE OF CALIFORNIA

RST#22088

02/16/24

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APP: 04-123059 PC
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SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
WOOD FOUNDATION 36x40 BLDG W/ 50+15

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
JA/RT

DATE

SHEET NO.
F1.12

SHEET OF

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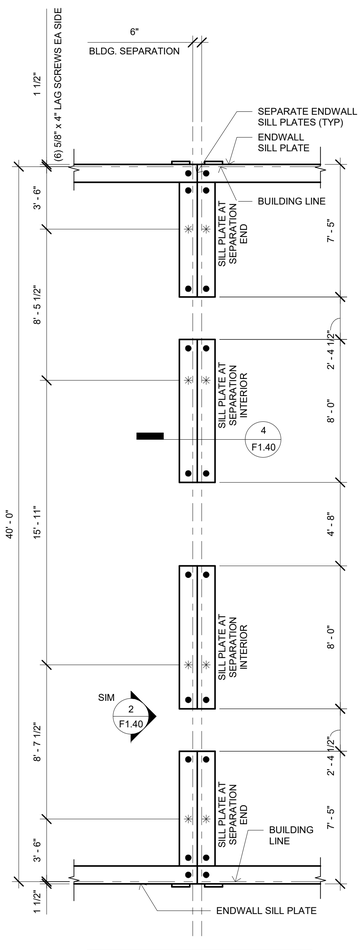
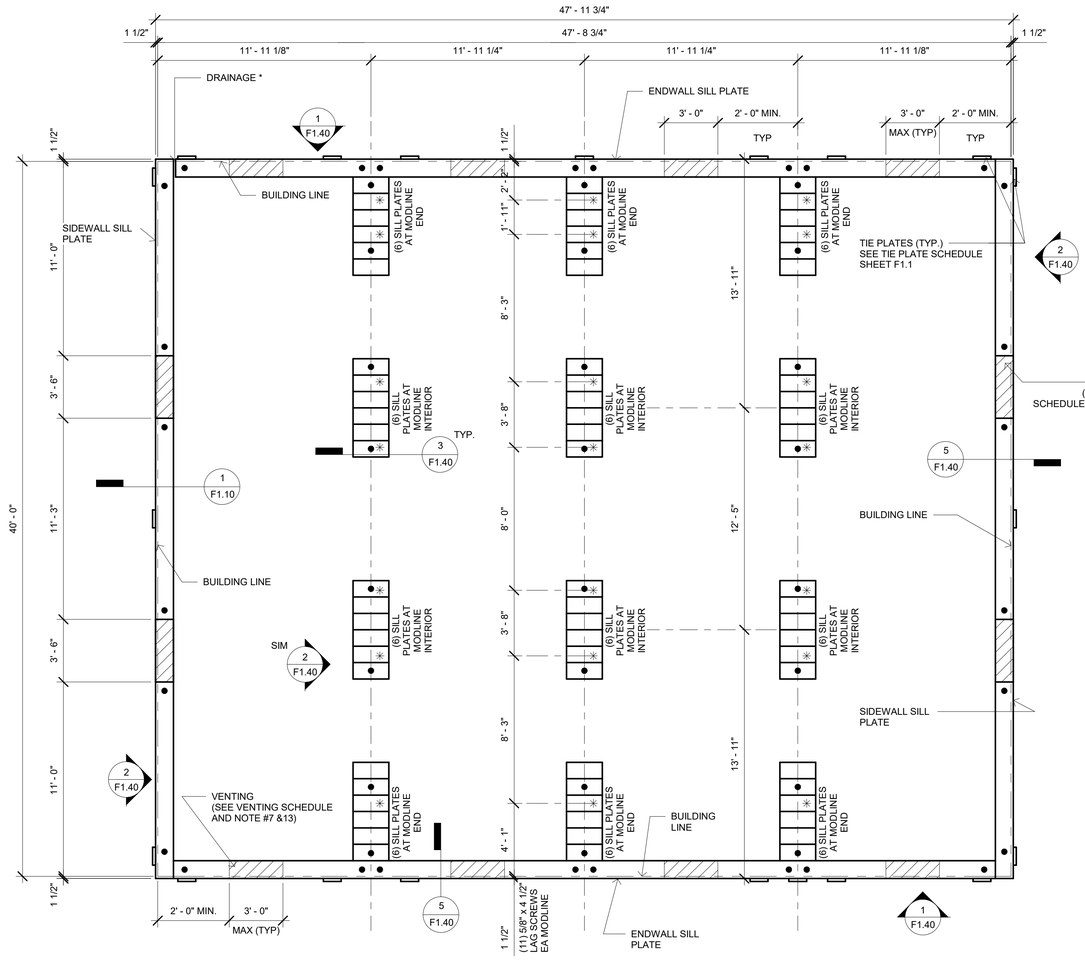


SYMBOLS LEGEND

✳ LAG SCREWS (6 TOTAL EACH SIDE)
● SILL RESTRAINTS (SEE NOTE #4,7 / F1.10)

1 ***1/4" = 1'-0"***
FOOTING AT SEPARATION 48x40 FOR 50+15



SYMBOLS LEGEND

✳ LAG SCREWS (11 TOTAL)
● SILL RESTRAINTS (SEE NOTE #4,7 / F1.10)

* REFER TO ARCHITECTURAL SITE PLAN FOR DRAINAGE

2 ***1/4" = 1'-0"***
FOUNDATION PLAN 48x40 FOR 50+15

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ♦ CONSULTING ♦ PROJECT MGT
11590 W Bernardo Court, Suite 100
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www.rstavares.com

PROFESSIONAL STAMP

RST#22088

02/16/24

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APP: 04-123059 PC
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DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
WOOD FOUNDATION PLAN 48x40 BLDG W/ 50+15

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

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JA/RT

DATE

SHEET NO.
F1.13

SHEET OF

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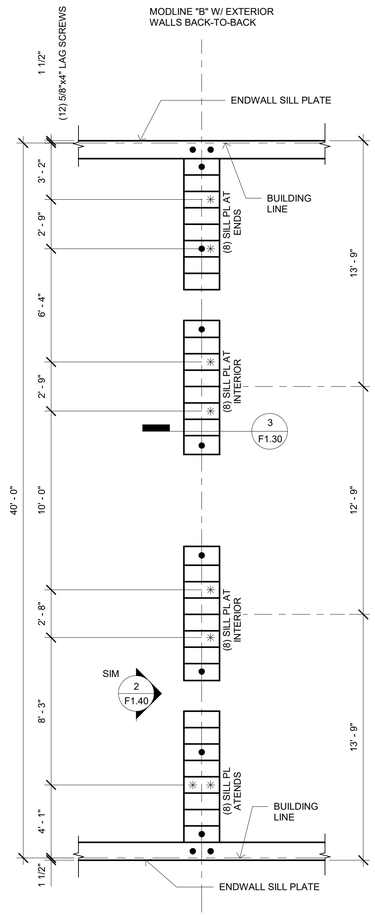
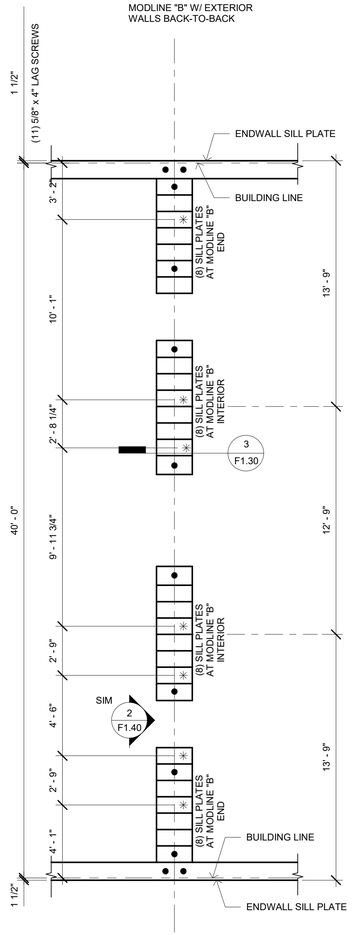


SYMBOLS LEGEND
✳ LAG SCREWS (12 TOTAL)
● SILL RESTRAINTS (SEE NOTE #4,7 / F1.10)

NOTE: IT IS ONLY APPROPRIATE WHERE ADJACENT MODULE IS BOLTED AND DOES NOT EXCEED 36 FEET WIDE TOGETHER (2160 SF. TOTAL AREA)

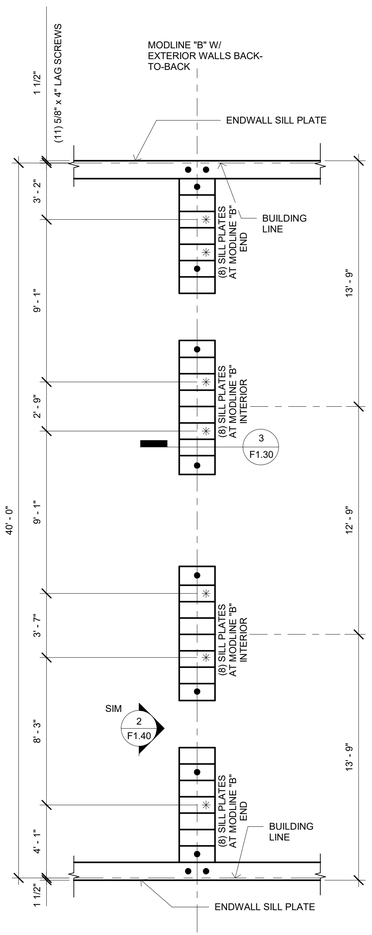
1 *1/4" = 1'-0"*
FOOTING AT MODELINE TYPE "B", 24x40



SYMBOLS LEGEND
✳ LAG SCREWS (11 TOTAL)
● SILL RESTRAINTS (SEE NOTE #4,7 / F1.10)

NOTE: IT IS ONLY APPROPRIATE WHERE ADJACENT MODULE IS BOLTED AND DOES NOT EXCEED 36 FEET WIDE TOGETHER (2160 SF. TOTAL AREA)

2 *1/4" = 1'-0"*
FOOTING AT MODLINE TYPE "B", 36x40



SYMBOLS LEGEND
✳ LAG SCREWS (11 TOTAL)
● SILL RESTRAINTS (SEE NOTE #4,7 / F1.10)

NOTE: IT IS ONLY APPROPRIATE WHERE ADJACENT MODULE IS BOLTED AND DOES NOT EXCEED 36 FEET WIDE TOGETHER (2160 SF. TOTAL AREA)

3 *1/4" = 1'-0"*
FOOTING AT MODLINE TYPE "B", 48x40

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
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www.rstavares.com

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APP: 04-123059 PC
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DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
MODLINE "B" W/ EXTERIOR WALLS BACK-TO-BACK 50+15 PSF

PROJECT NUMBER
22088

DRAWN BY
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DATE

SHEET NO.
F1.14

SHEET OF

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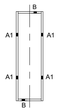
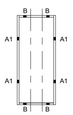


VENT AREA REQ = 960 SF = 6.4 SF
150

VENT AREA AVAIL = (4)2.175 + (2)*1.875 = 12.5 SF

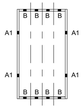
NET AREA AVAIL = 0.6 * 12.5 = 7.5 SF



VENT AREA REQ = 1440 SF = 9.6 SF
150

VENT AREA AVAIL (4)2.175 + (4)*1.875 = 16.25 SF

NET AREA = 0.6 * 16.25 = 9.75 SF



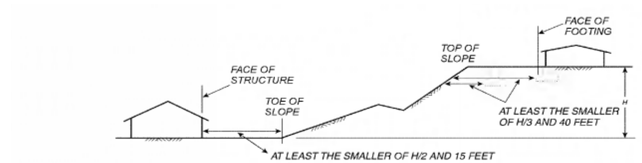
VENT AREA REQ = 1920 SF = 12.8 SF
150

VENT AREA AVAIL (4)2.175 + (8)*1.875 = 23.75 SF

NET AREA = 0.6 * 23.75 = 14.25 SF

NOTE: WOOD FOUNDATION EXPANDABLE TO 48x40

6 *1/16" = 1'-0"*
100 PSF VENTING LAYOUT



For SI: 1 foot = 304.8 mm.

FIGURE 1808.7.1
FOUNDATION CLEARANCES FROM SLOPES

8 *1/4" = 1'-0"*
FOUNDATION SETBACKS 100PSF

1. WOOD FOUNDATION CONSTRUCTION IS ALLOWED FOR BUILDINGS WITH 2160 SF AND UNDER.
2. SILL PLATES SHALL BE OF FOUNDATION GRADE REDWOOD OR PRESERVATIVE PRESURE TREATED MATERIAL AND IS ALLOWED TO REST DIRECTLY ON SOIL OR PAVEMENT. MATERIALS ABOVE THE SILL PLATES ARE NOT CONTROLLED BY THIS REQUIREMENT.
3. VENTS THAT OCCUR INSIDE RAMP BOUNDARIES SHALL REQUIRE A VENT OF EQUAL SIZE AT RAMP SKIRTING.
4. TO PREVENT SLIDING; A 1 INCH G.S. SCHEDULE 40 PIPE (1.315" ACTUAL O.D.) SHALL BE ATTACHED TO SILL PLATE AND ANCHORED INTO THE EARTH W/ 12" MIN EMBEDMENT (PROJECTED VERTICALLY) @ 10' - 0" MAX O.C. AND SHALL BE LOCATED A MAXIMUM OF 2'-0" FROM CORNERS
5. STACKED FOUNDATION MEMBERS SHALL BE FASTENED TO ONE ANOTHER W/ CORROSION RESISTANT NAILS.
6. WOOD FOUNDATION HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 1,000 PSF IN ABSENSE OF A SOILS INVESTIGATION REPORT PROVIDED BY A LICENSED GEOTECHNICAL ENGINEER.
7. REFER TO ARCHITECT'S SITE PLAN FOR DRAINAGE.

4 *1/4" = 1'-0"*
NOTES FOR 100 PSF

KEY PLAN VENTING SCHEDULE

VENT "A1" (SIDEWALL): 3'-6" x 7.5" = **2.188 SF VENTILATION AVAILABLE**

VENT "B" (ENDWALL): 3'-0" x 7.5" = **1.875 SF VENTILATION AVAILABLE**

VENT "B" (ENDWALL): 3'-0" x 7.5" = **1.875 SF VENTILATION AVAILABLE**

SEE 2/F1.40 FOR REFERENCE

2 *1/4" = 1'-0"*
KEY PLAN VENTING SCHEDULE FOR 100 PSF

(2) 16d NAILS SILL TO BASE PLATE CONNECTION FOR 100 PSF SEE NOTE #5

	ENDWALL	SIDEWALL	SEPERATION
24x40	7" O.C	12" O.C	12" O.C
36x40	7" O.C	12" O.C	12" O.C
48x40	7" O.C	12" O.C	12" O.C

3 *1/4" = 1'-0"*
NAILING SCHEDULE FOR 100 PSF

WOOD PAD FOUNDATION SCHEDULE

100 PSF

PLATES	END WALL	SIDE WALL	MODLINE ENDS	MODLINE INTERIOR	ML "B" ENDS	ML "B" INTERIOR	SEPARATION ENDS	SEPARATION INTERIOR
BOOSTER	2x4	2x4	2x6	2x6	2x8	2x8	2x4	2x4
TOP	2x6	2x6	2x8	2x8	2x10	2x10	2x6	2x6
BASE	2x8	2x8	2x10	2x10	2x12	2x12	2x8	2x8
SILL	2x14	2x14	(10) 2x12, 24" LONG	(11) 2x12, 24" LONG	(8) 2x12, 24" LONG	(15) 2x12, 24" LONG	2x14	2x14

* MODLINE "B" - MODLINE W/ EXT. WALLS BACK-TO-BACK SEE F1.24

5 *1/4" = 1'-0"*
WOOD PAD FOUNDATION SCHEDULE FOR 100 PSF

TIE PLATE SCHEDULE

	END WALL	SIDE WALL
24x40	5	3
36x40	7	3
48x40	10	3

1 *1/4" = 1'-0"*
TIE PLATE SCHEDULE FOR 100 PSF

PROJECT SPECIFIC STATE AGENCY APPROVAL

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WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRANCISCO
No. 93380
03/31/24
STRUCTURAL
STATE OF CALIFORNIA
RST#22088

02/16/24

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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

WOOD FOUNDATION NOTES SCHED FOR BLDG W/ 100PSF

PROJECT NUMBER

22088

DRAWN BY

rMc/SC

CHECKED BY

JA/RT

DATE

SHEET NO.

F1.20

SHEET OF

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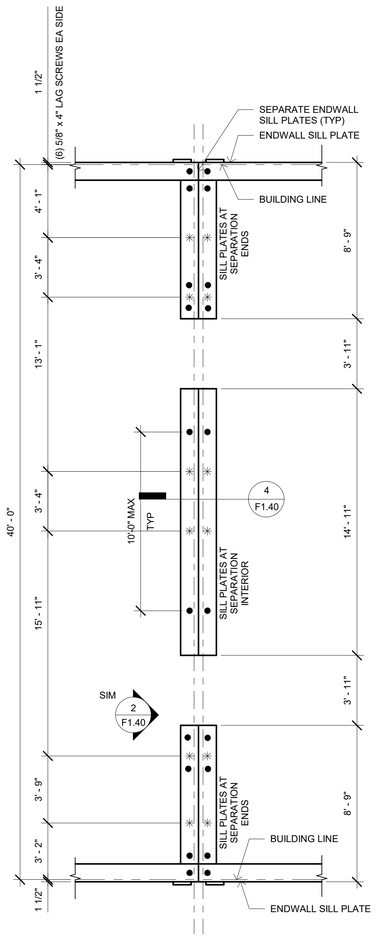
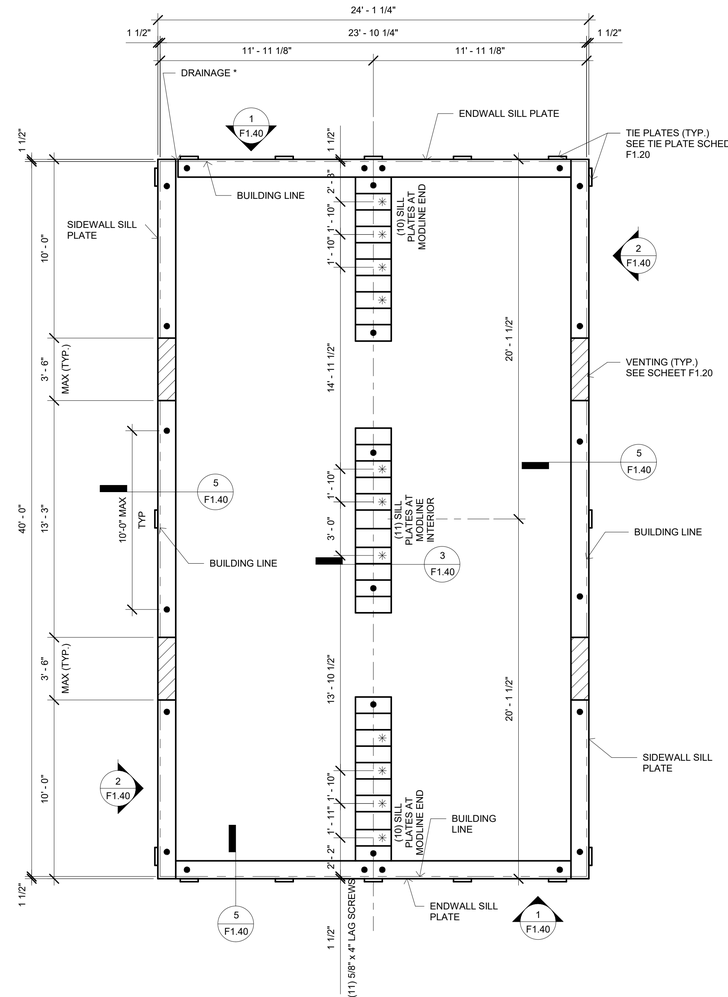


SYMBOLS LEGEND
✳ 5/8" DIA. X 4" LAG SCREWS (6 TOTAL EACH SIDE)
● SILL RESTRAINTS (SEE NOTE #4, 4 / F1.20)
TIE PLATE PER 1 / F1.20
1 IN. SCH40 HOT DIPPED GALV. PIPE PER 5/F1.40

2 ***1/4" = 1'-0"***
FOOTING AT SEPARATION 24x40 FOR 100 PSF



* REFER TO ARCHITECTURAL SITE PLAN FOR DRAINAGE

SYMBOLS LEGEND
✳ 5/8" DIA. X 4" LAG SCREWS (12 TOTAL)
● SILL RESTRAINTS (SEE NOTE # 4,4 / F1.20)
TIE PLATE PER 1 / F1.20
1 IN. SCH40 HOT DIPPED GALV. PIPE PER 5/F1.40

1 ***1/4" = 1'-0"***
FOUNDATION PLAN 24x40 FOR 100 PSF

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PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
11590 W Bernardo Court, Suite 100
San Diego, CA 92127
www.rstavares.com

PROFESSIONAL STAMP

02/16/24

RST#22088

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CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

WOOD FOUNDATION PLAN 24x40 BLDG W/ 100 PSF

PROJECT NUMBER 22088

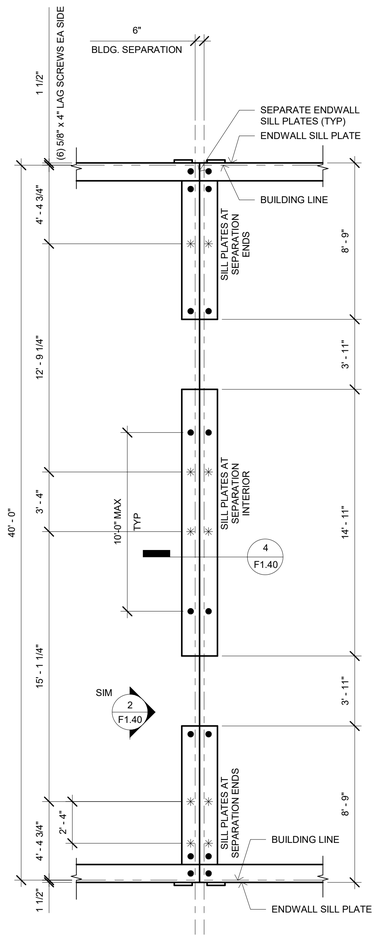
DRAWN BY rMc/SC

CHECKED BY JA/RT

DATE

SHEET NO. F1.21

SHEET OF



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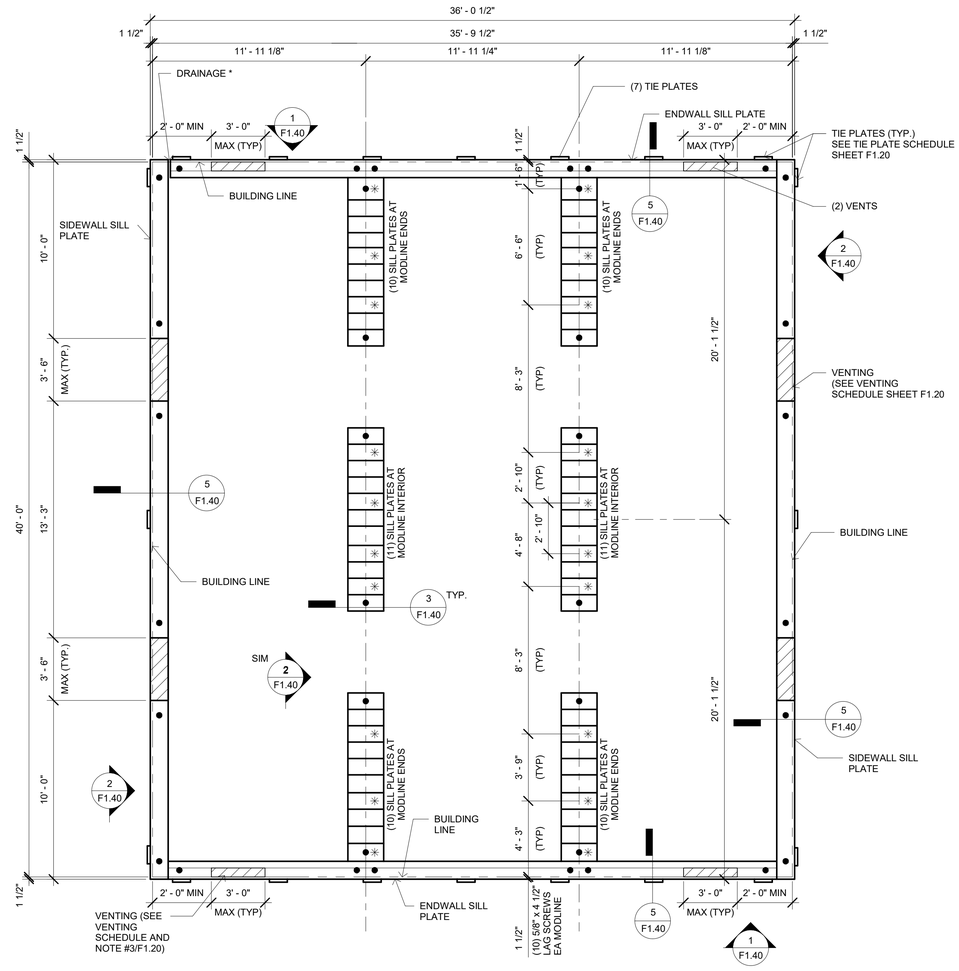
● SILL RESTRAINTS (SEE NOTE #4, 4 / F1.20)
TIE PLATE PER 1 / F1.20

1 IN. SCH40 HOT DIPPED GALV. PIPE PER 5/F1.40

2 *1/4" = 1'-0"*
FOOTING AT SEPARATION 36x40 FOR 100 PSF



* REFER TO ARCHITECTURAL SITE PLAN FOR DRAINAGE

SYMBOLS LEGEND
✳ 5/8" DIA. X 4" LAG SCREWS (11 TOTAL)
● SILL RESTRAINTS (SEE NOTE #4,4 / F1.20)
TIE PLATE PER 1 / F1.20

1 IN. SCH40 HOT DIPPED GALV. PIPE PER 5 / F1.40

1 *1/4" = 1'-0"*
FOUNDATION PLAN 36x40 FOR 100 PSF

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
11590 W Bernardo Court, Suite 100
San Diego, CA 92127
www.rstavares.com

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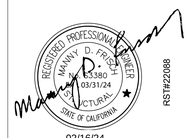

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DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
WOOD FOUDATION PLAN 36x40 BLDG W/ 100 PSF

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
JA/RT

DATE

SHEET NO.
F1.22
SHEET OF

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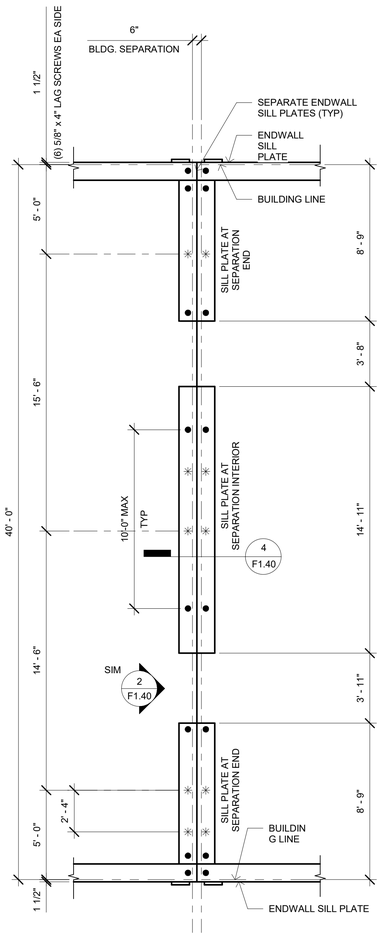
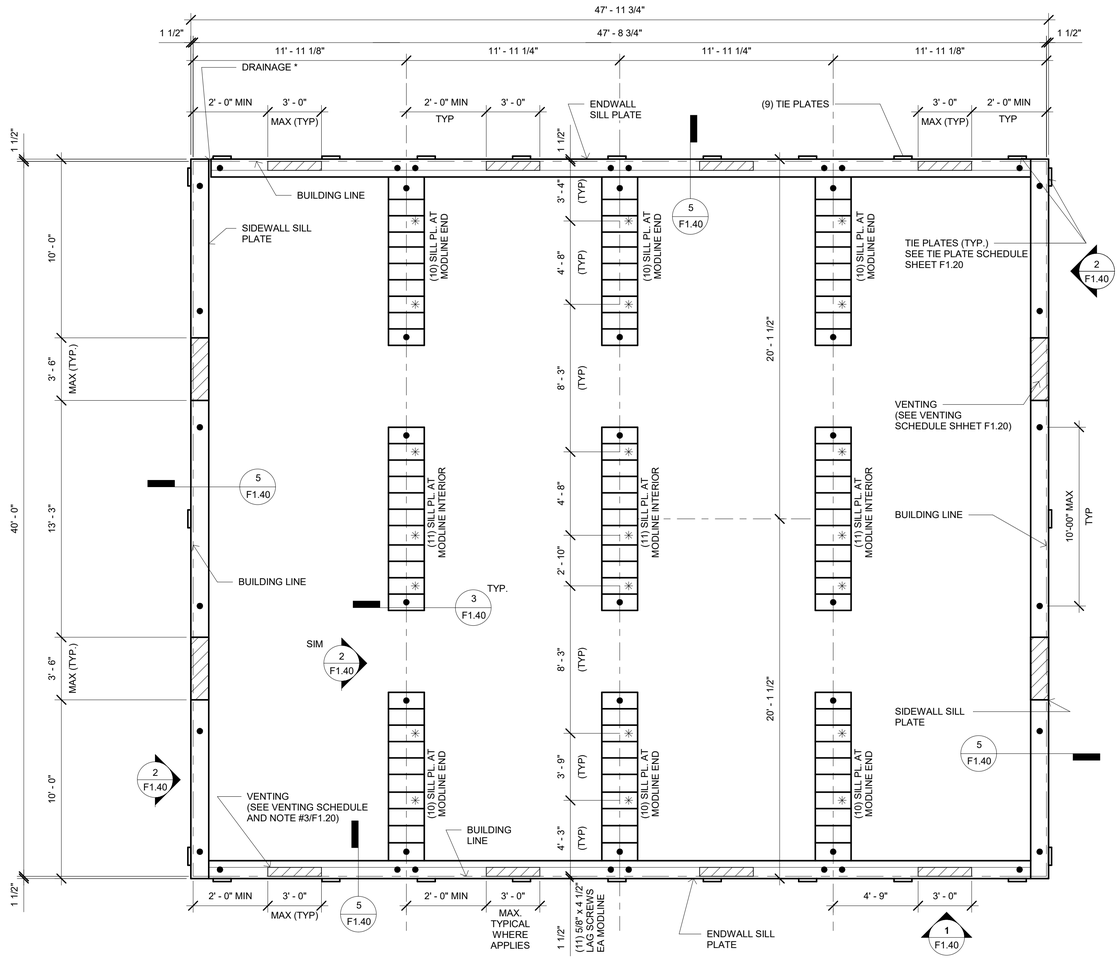


SYMBOLS LEGEND
✳ 5/8" DIA. X 4" LAG SCREWS (6 TOTAL SIDE)
● SILL RESTRAINTS (SEE NOTE #4,4 / F1.20)
TIE PLATE PER 1 / F1.20

1 IN. SCH40 HOT DIPPED GALV. PIPE PER 5 / F1.40

2 *1/4" = 1'-0"*
FOOTING AT SEPARATION 48x40 FOR 100 PSF



*REFER TO ARCHITECTURAL SITE PLAN FOR DRAINAGE

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✳ 5/8" DIA. X 4" LAG SCREWS (11 TOTAL)
● SILL RESTRAINTS (SEE NOTE #4,4 / F1.20)
TIE PLATE PER 1 / F1.20

1 IN. SCH40 HOT DIPPED GALV. PIPE PER 5 / F1.40

1 *1/4" = 1'-0"*
FOUNDATION PLAN 48x40 FOR 100 PSF

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PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ✦ CONSULTING ✦ PROJECT MGT
11590 W Bernardo Court, Suite 100
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www.rstavares.com

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SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

WOOD FOUNDATION PLAN 48x40 BLDG W/ 100 PSF

PROJECT NUMBER

22088

DRAWN BY

rMc/SC

CHECKED BY

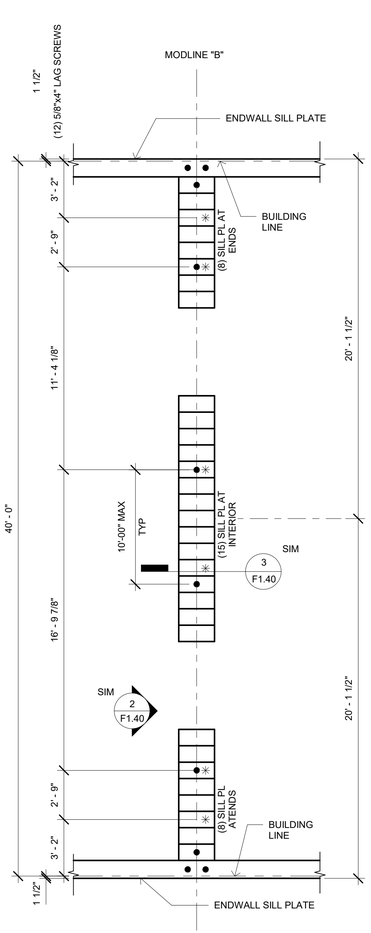
JA/RT

DATE

SHEET NO.

F1.23

SHEET OF

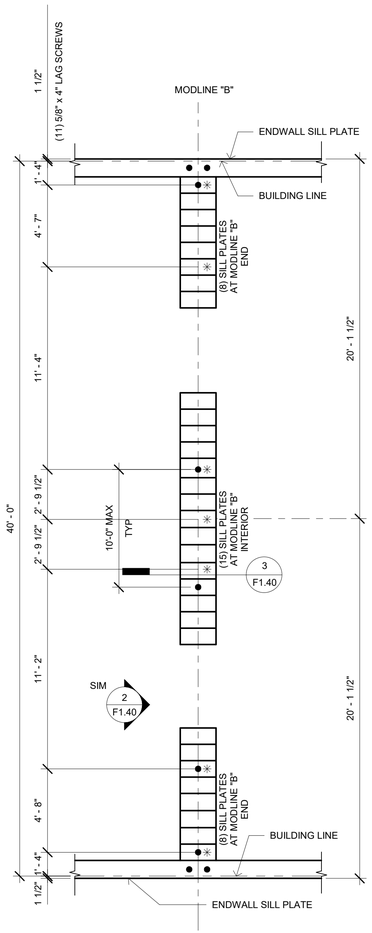


SYMBOLS LEGEND
✳ 5/8" DIA. X 4" LAG SCREWS (12 TOTAL)
● SILL RESTRAINTS (SEE NOTE #4,4 / F1.20)
TIE PLATE PER 1 / F1.20

NOTE: IT IS ONLY APPROPRIATE WHERE ADJACENT MODULE IS BOLTED AND DOES NOT EXCEED 36 FEET WIDE TOGETHER (2160 SF. TOTAL AREA)

1 IN. SCH40 HOT DIPPED GALV. PIPE PER 5 / F1.40

1 ***1/4" = 1'-0"***
FOOTING AT MODELINE TYPE "B", 24x40 FOR 100 PSF



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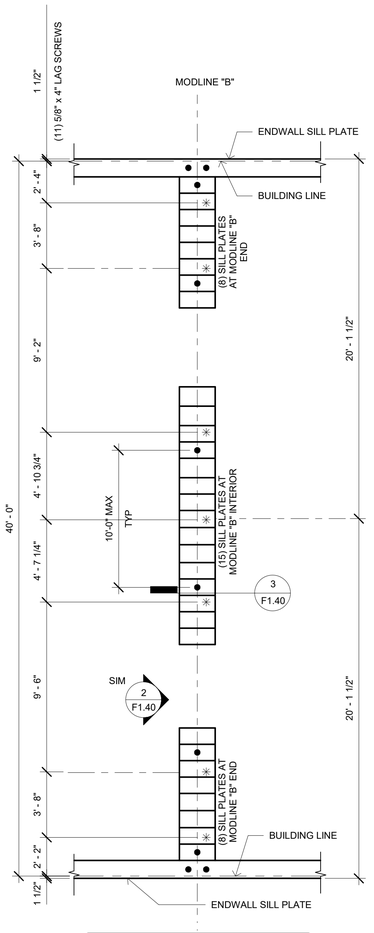
1 IN. SCH40 HOT DIPPED GALV. PIPE PER 5 / F1.40

2 ***1/4" = 1'-0"***
FOOTING AT MODLINE TYPE "B" 36x40 FOR 100 PSF



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● SILL RESTRAINTS (SEE NOTE #4,4 / F1.20)
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NOTE: IT IS ONLY APPROPRIATE WHERE ADJACENT MODULE IS BOLTED AND DOES NOT EXCEED 36 FEET WIDE TOGETHER (2160 SF. TOTAL AREA)

1 IN. SCH40 HOT DIPPED GALV. PIPE PER 5 / F1.40

3 ***1/4" = 1'-0"***
FOOTING AT MODLINE TYPE "B" 48x40 FOR 100 PSF

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ✦ CONSULTING ✦ PROJECT MGT
11590 W Bernardo Court, Suite 100
San Diego, CA 92127
www.rstavares.com

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRANCISCO
C 53380
03/31/24
STRUCTURAL
STATE OF CALIFORNIA
RST#22088

02/16/24

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ORIGINAL PC STATE AGENCY APPROVAL

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DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
MODLINE "B" W/ EXTERIOR WALLS BACK-TO-BACK 100 PSF

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
JA/RT

DATE

SHEET NO.
F1.24

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VENT AREA REQ = 960 SF / 150 = 6.4 SF

VENT AREA AVAIL (4) 3 SF= 12 SF

NET AREA = 0.6 * 7.2 = 7.2 SF

VENT AREA REQ = 1440 SF / 150 = 9.6 SF

VENT AREA AVAIL (6) 3 SF= 18 SF

NET AREA = 0.6 * 18 = 10.8 SF

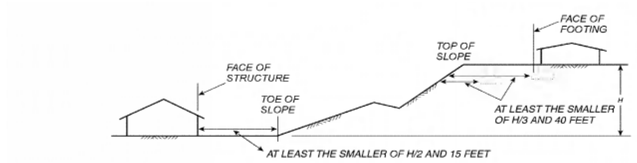
VENT AREA REQ = 1920 SF / 150 = 12.8 SF

VENT AREA AVAIL (8) 3 SF= 24 SF

NET AREA = 0.6 * 24 = 14.4 SF

NOTE: WOOD FOUNDATION EXPANDABLE TO 48x40

1 *1/16" = 1'-0"*
VENTING PLAN FOR 150 PSF



For SI: 1 foot = 304.8 mm.

FIGURE 1808.7.1
FOUNDATION CLEARANCES FROM SLOPES

8 *1/4" = 1'-0"*
FOUNDATION SETBACKS 150PSF

KEY PLAN VENTING SCHEDULE
VENT "A" (ENDWALL) 3'-0" x 1'-0" = 3 SF
*ENDWALL VENTS SUFFICIENTLY MEET VENTING REQUIREMENTS FOR EXPANDING BUILDINGS, No SIDEWALL VENTS REQUIRED.

6 *1/4" = 1'-0"*
KEY PLAN VENTING SCHEDULE FOR 150 PSF

WOOD PAD FOUNDATION SCHEDULE								
150 PSF								
PLATES	END WALL	SIDE WALL	MODLINE ENDS	MODLINE INTERIOR	ML "B" ENDS	ML "B" INTERIOR	SEPARATION ENDS	SEPARATION INTERIOR
BOOSTER	2x4	2x4	2x 6	2x6	2x8	2x8	2x4	2x4
TOP	2x6	2x6	2x8	2x8	2x10	2x10	2x6	2x6
BASE	2x8	2x8	2x10	2x10	2x12	2x12	2x8	2x8
SILL	2x14	2x14	(CONT.) 2x12, 24" LONG	(CONT.) 2x12, 24" LONG	(CONT.) 2x12, 26" LONG	(CONT.) 2x12, 26" LONG	2x14	2x14

* MODLINE "B" - MODLINE W/ EXT. WALLS BACK-TO-BACK SEE F1.34

3 *1/4" = 1'-0"*
WOOD PAD FOUNDATION SCHEDULE FOR 150 PSF

1. WOOD FOUNDATION CONSTRUCTION IS ALLOWED FOR BUILDINGS WITH 2160 SF AND UNDER.
2. SILL PLATES SHALL BE OF FOUNDATION GRADE REDWOOD OR PRESERVATIVE PRESURE TREATED MATERIAL AND IS ALLOWED TO REST DIRECTLY ON SOIL OR PAVEMENT. MATERIALS ABOVE THE SILL PLATES ARE NOT CONTROLLED BY THIS REQUIREMENT.
3. VENTS THAT OCCUR INSIDE RAMP BOUNDARIES SHALL REQUIRE A VENT OF EQUAL SIZE AT RAMP SKIRTING.
4. TO PREVENT SLIDING; A 1 INCH G.S. SCHEDULE 40 PIPE (1.315" ACTUAL O.D.) SHALL BE ATTACHED TO SILL PLATE AND ANCHORED INTO THE EARTH W/ 12" MIN EMBEDMENT (PROJECTED VERTICALLY) @ 10' - 0" MAX O.C. AND SHALL BE LOCATED A MAXIMUM OF 2'-0" FROM CORNERS
5. STACKED FOUNDATION MEMBERS SHALL BE FASTENED TO ONE ANOTHER W/ CORROSION RESISTANT NAILS.
6. WOOD FOUNDATION HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 1,000 PSF IN ABSENSE OF A SOILS INVESTIGATION REPORT PROVIDED BY A LICENSED GEOTECHNICAL ENGINEER.
7. REFER TO ARCHITECT'S SITE PLAN FOR DRAINAGE.

7 *1/4" = 1'-0"*
NOTES FOR 150 PSF

(2) 16d NAILS SILL TO BASE CONNECTION FOR 150 PSF			
	ENDWALL	SIDEWALL	SEPERATION
24x40	5" O.C	12" O.C	10" O.C
36x40	5" O.C	12" O.C	10" O.C
48x40	5" O.C	12" O.C	10" O.C

5 *1/4" = 1'-0"*
NAILING SCHEDULE FOR 150 PSF

TIE PLATE SCHEDULE		
	END WALL	SIDE WALL
24x40	7	4
36x40	10	4
48x40	13	4

4 *1/4" = 1'-0"*
TIE PLATE SCHEDULE FOR 150 PSF

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
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11590 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

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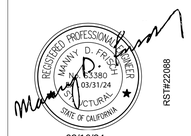

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Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

WOOD FOUNDATION NOTES SCHED FOR BLDG W/ 150 PSF

PROJECT NUMBER

22088

DRAWN BY

rMc/SC

CHECKED BY

JA/RT

DATE

SHEET NO.

F1.30

SHEET OF

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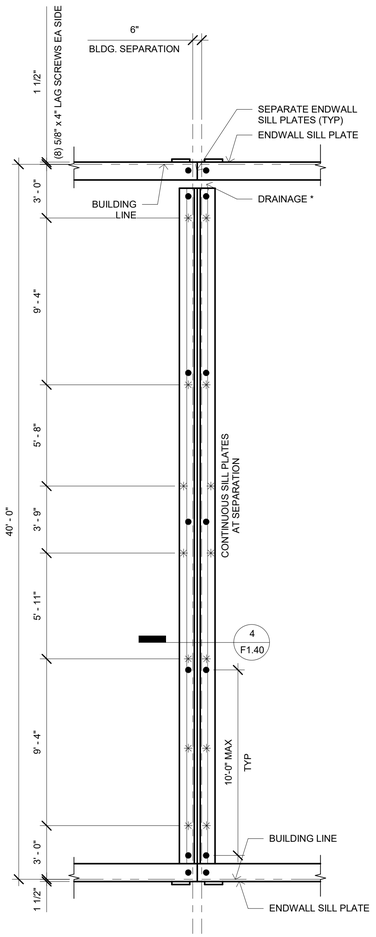
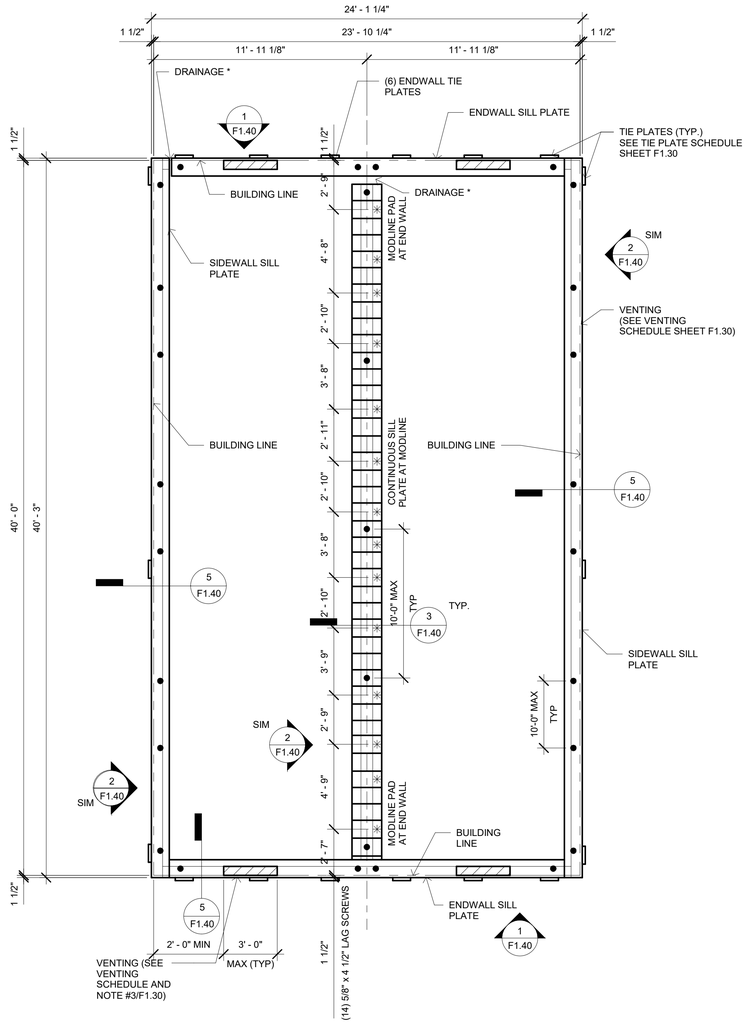


SYMBOLS LEGEND
✳ LAG SCREWS (8 TOTAL EACH SIDE)
● SILL RESTRAINTS (SEE NOTE #4, 7/F1.30)

1 ***1/4" = 1'-0"***
FOOTING AT SEPARATION 24x40 FOR 150 PSF



* REFER TO ARCHITECTURAL SITE PLAN FOR DRAINAGE

SYMBOLS LEGEND
✳ LAG SCREWS (16 TOTAL)
● SILL RESTRAINTS (SEE NOTE #4, 7/F1.30)

2 ***1/4" = 1'-0"***
FOUNDATION PLAN 24x40 FOR 150 PSF

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROJECT TITLE

PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

WOOD FOUNDATION PLAN 24X40 BLDG W/ 150 PSF

PROJECT NUMBER

22088

DRAWN BY

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DATE

SHEET NO.

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SHEET OF

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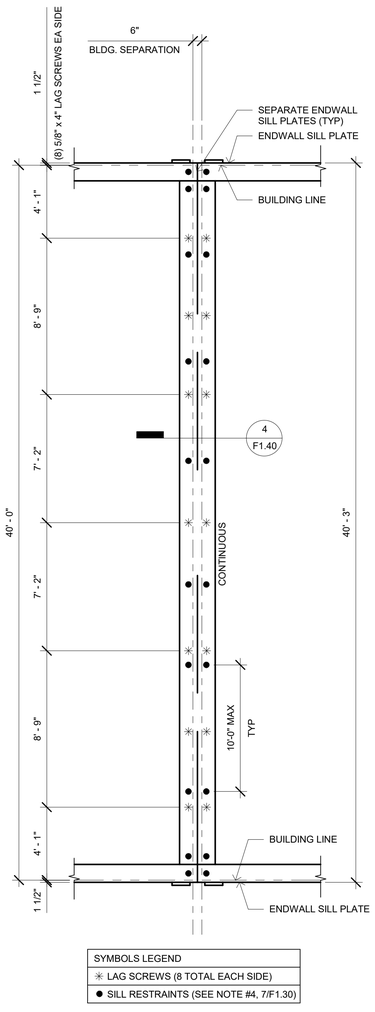
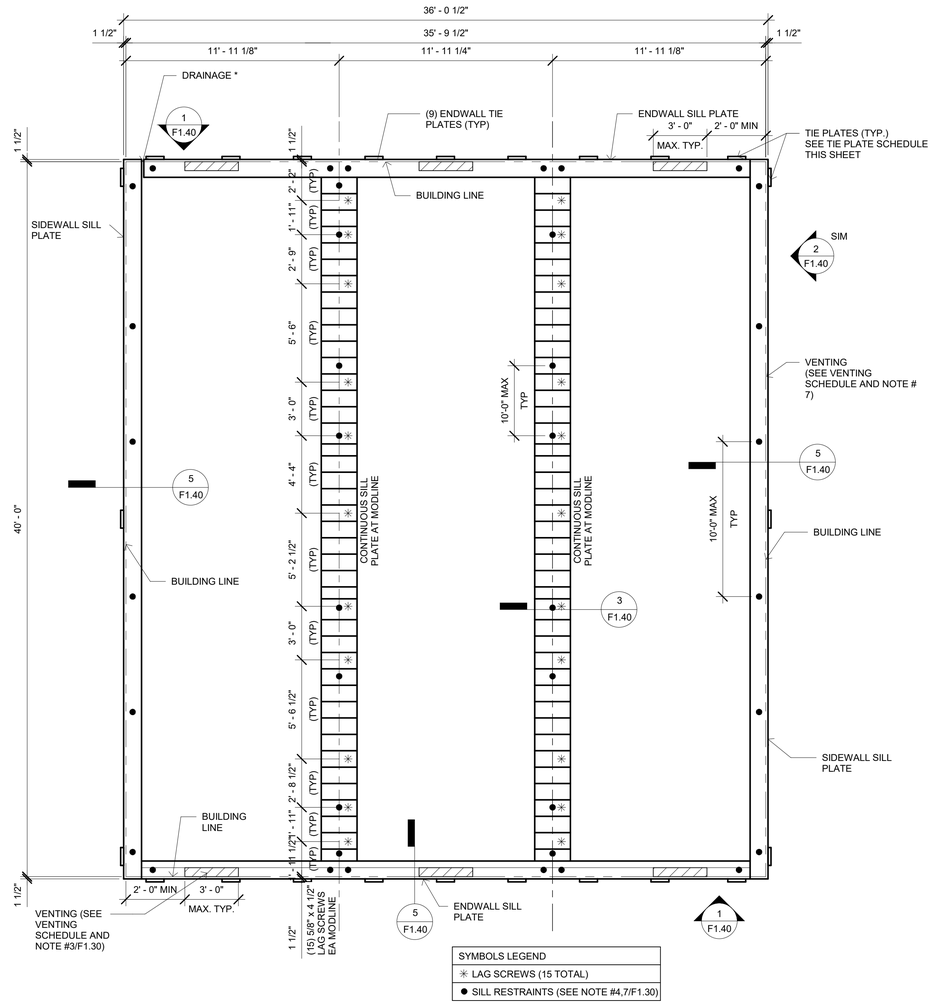


SYMBOLS LEGEND
✳ LAG SCREWS (8 TOTAL EACH SIDE)
● SILL RESTRAINTS (SEE NOTE #4, 7/F1.30)

3 *1/4" = 1'-0"*
FOOTING AT SEPARATION 36x40 FOR 150 PSF



SYMBOLS LEGEND
✳ LAG SCREWS (15 TOTAL)
● SILL RESTRAINS (SEE NOTE #4,7/F1.30)

1 *1/4" = 1'-0"*
FOUNDATION PLAN 36x40 FOR 150 PSF

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
11590 W Bernardo Court, Suite 100
San Diego, CA 92127
www.rstavares.com

PROFESSIONAL STAMP

RECORDED PROFESSIONAL ENGINEER
MANNY D. FRANCISCO
No. C-53380
03/31/24
STRUCTURAL
STATE OF CALIFORNIA

RST#22088

02/16/24

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CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
WOOD FOUNDATION PLAN 36x40 BLDG W/ 150 PSF

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

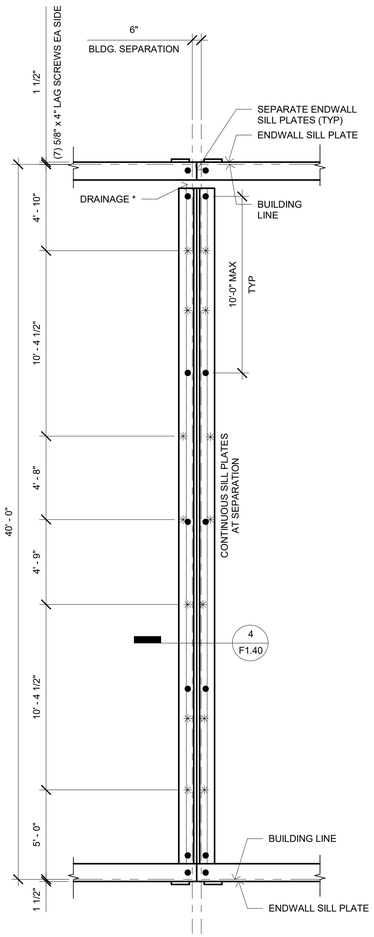
CHECKED BY
JA/RT

DATE

SHEET NO.
F1.32

SHEET OF

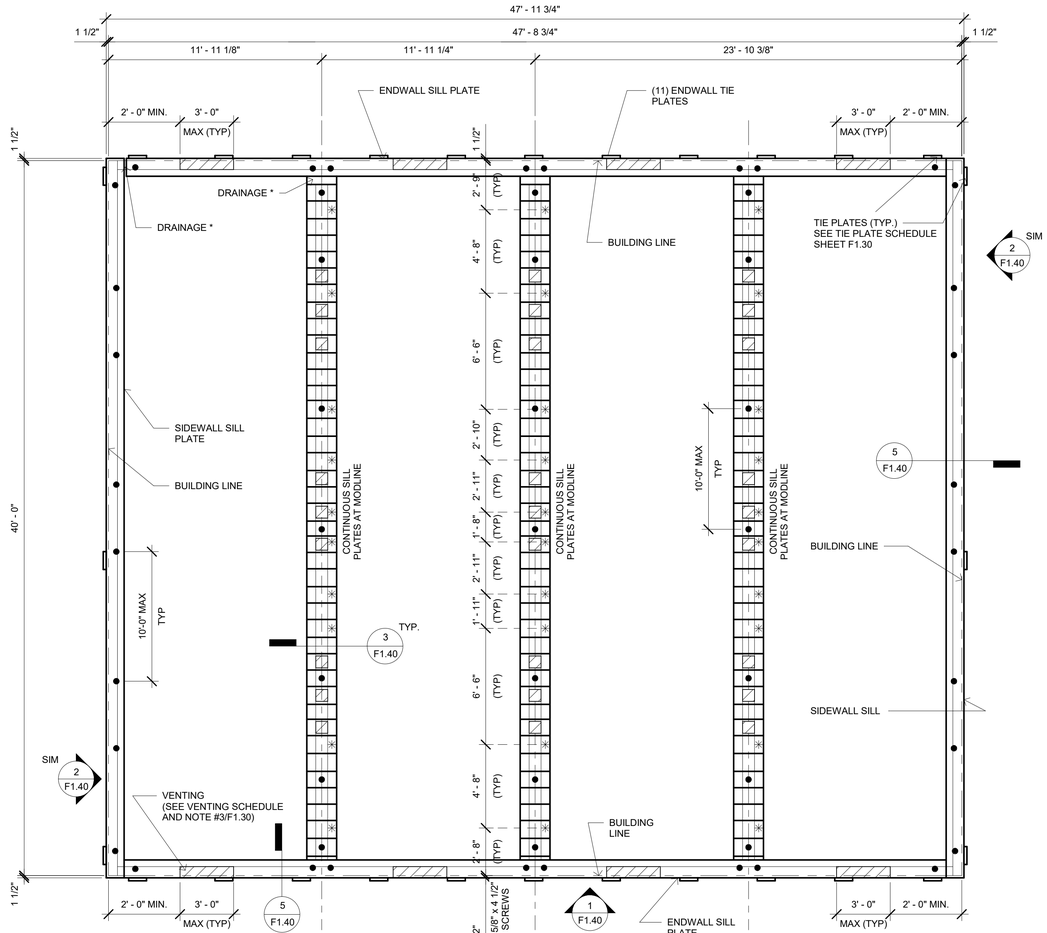
6/16/2021 7:45:04 AM C:\Users\User\Documents\RST#20132 - Class Leasing, PC 24x40 to 120x40 HS_detached_CESAR24D83.rvt



* REFER TO ARCHITECT'S SITE PLAN DRAINAGE

SYMBOLS LEGEND
✳ LAG SCREWS (7 TOTAL EACH SIDE)
● SILL RESTRAINTS (SEE NOTE #4, 7/F1.30)

2 ***1/4" = 1'-0"***
FOOTING AT SEPARATION FOR 150 PSF



*REFER TO ARCHITECT'S SITE PLAN FOR DRAINAGE

SYMBOLS LEGEND
✳ LAG SCREWS (14 TOTAL)
● SILL RESTRAINTS (SEE NOTE #4, 7/F1.30)

1 ***1/4" = 1'-0"***
FOUNDATION PLAN FOR 150 PSF

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
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MANNY D. FRANCISCO
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03/31/24
CIVIL
STRUCTURAL
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RST#22088
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DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
WOOD FOUNDATION PLAN 48x40 BLDG W/ 150 PSF

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
JA/RT

DATE

SHEET NO.
F1.33

SHEET OF

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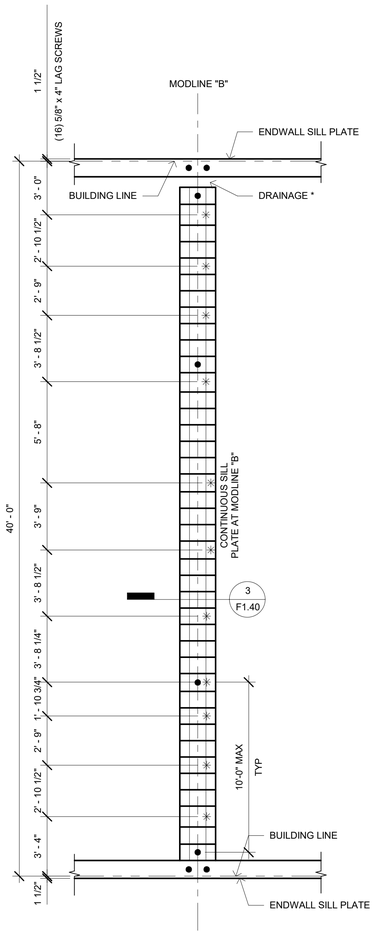
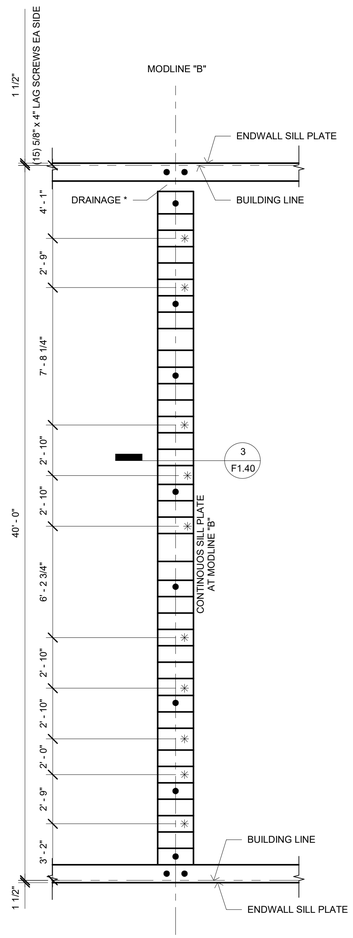


* REFER TO ARCHITECT'S SITE PLAN FOR DRAINAGE

SYMBOLS LEGEND
✳ LAG SCREWS (16 TOTAL)
● SILL RESTRAINTS (SEE NOTE #4, 7/F1.30)

NOTE: IT IS ONLY APPROPRIATE WHERE ADJACENT MODULE IS BOLTED AND DOES NOT EXCEED 36 FEET WIDE TOGETHER (2160 SF. TOTAL AREA)

1 *1/4" = 1'-0"*
FOOTING AT MODLINE "B" 24x40 FOR 150 PSF

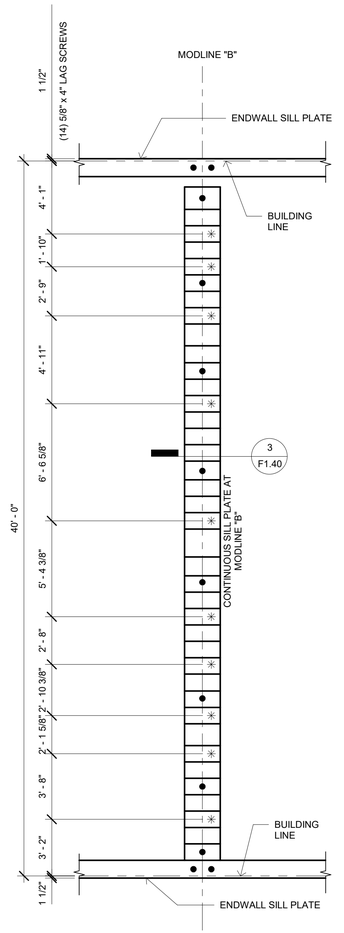


*REFER TO ARCHITECT'S SITE PLAN FOR DRAINAGE

SYMBOLS LEGEND
✳ LAG SCREWS (15 TOTAL)
● SILL RESTRAINTS (SEE NOTE #4, 7/F1.30)

NOTE: IT IS ONLY APPROPRIATE WHERE ADJACENT MODULE IS BOLTED AND DOES NOT EXCEED 36 FEET WIDE TOGETHER (2160 SF. TOTAL AREA)

2 *1/4" = 1'-0"*
FOOTING AT MODLINE TYPE "B", 36x40 FOR 150 PSF



*REFER TO ARCHITECT'S SITE PLAN FOR DRAINAGE

SYMBOLS LEGEND
✳ LAG SCREWS (14 TOTAL)
● SILL RESTRAINTS (SEE NOTE #4, 7/F1.30)

NOTE: IT IS ONLY APPROPRIATE WHERE ADJACENT MODULE IS BOLTED AND DOES NOT EXCEED 36 FEET WIDE TOGETHER (2160 SF. TOTAL AREA)

3 *1/4" = 1'-0"*
FOOTING AT MODLINE TYPE "B", 48x40 FOR 150 PSF

PROJECT SPECIFIC STATE AGENCY APPROVAL

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APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

MODLINE "B" W/ EXTERIOR WALL BACK-TO-BACK 150 PSF

PROJECT NUMBER

22088

DRAWN BY

rMc/SC

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DATE

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F1.34

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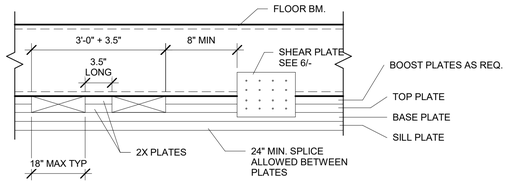
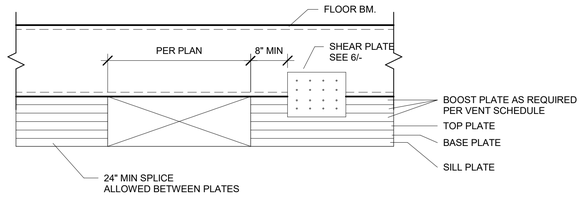
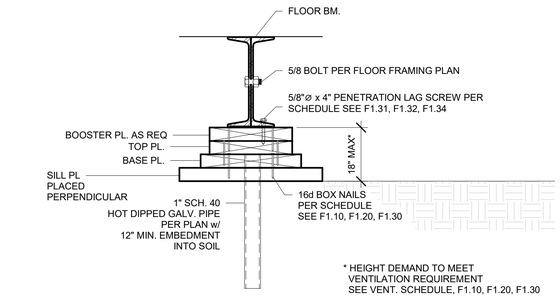


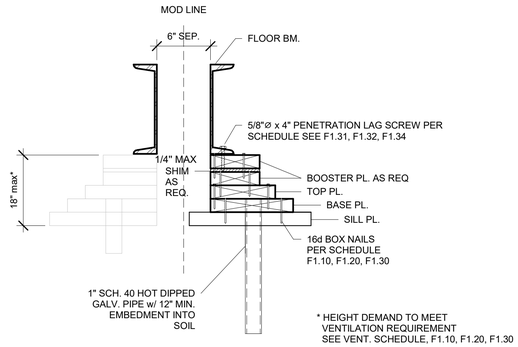
1 *1 1/2" = 1'-0"*
VENT OPENING OVER BASE PLATE



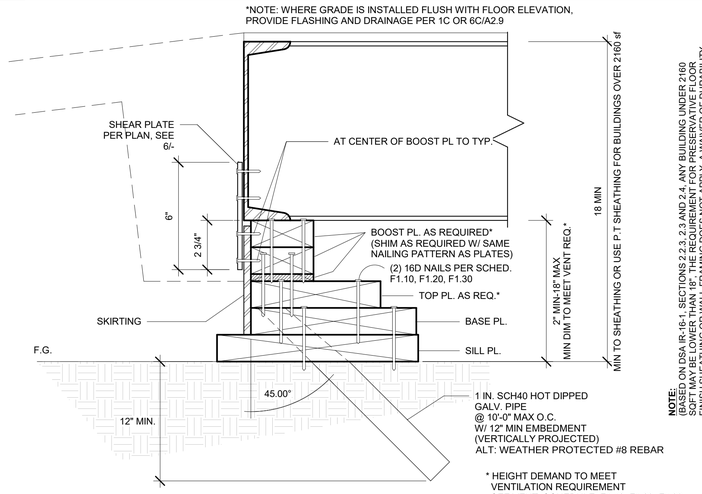
2 *1 1/2" = 1'-0"*
VENT OPENING @ SIDEWALL OR MODLINE @ SEPERATION



3 *1 1/2" = 1'-0"*
FOUNDATION PAD AT MOD LINE

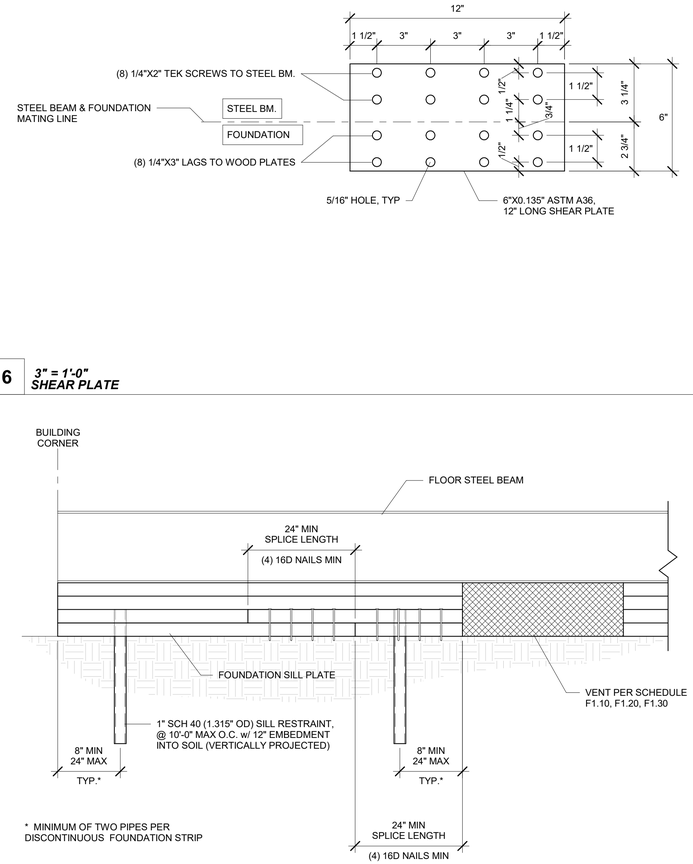


4 *1 1/2" = 1'-0"*
FOUNDATION PAD AT SEPARATION



NOTE:
IBC SECTION DSA IR-16-1, SECTIONS 2.2.3, 2.3 AND 2.4, ANY BUILDING UNDER 2160 SQFT MAY BE LOWER THAN 18", THE REQUIREMENT FOR PRESERVATIVE FLOOR FINISH SHEATHING OR WALL FRAMING DOES NOT APPLY. A WAIVER OF DURABILITY WILL BE SUBMITTED FOR APPROVAL BY THE CLIENTS APPOINTED AGENT.)

5 *3" = 1'-0"*
SILL PLATE PROFILE



6 *3" = 1'-0"*
SHEAR PLATE

7 *1 1/2" = 1'-0"*
Splice at Sills

PROJECT SPECIFIC STATE AGENCY APPROVAL

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WWW.RSTAVARES.COM

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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

WOOD FOUNDATION DETAILS

PROJECT NUMBER

22088

DRAWN BY

rMc/SC

CHECKED BY

JA/RT

DATE

SHEET NO.

F1.40

SHEET OF

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VENTILATION PLAN AND SCHEDULE

VENT "A" 7.83' W x 0.42' H = 3.26 SF

VENT "B" 2.83' W x 1.50' H = 4.25 SF ACCESS

VENT "C" 4.00' W x 0.42' H = 1.8 SF

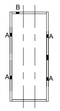
VENT A2=5.55 SF

VENT C2=2.83 SF

VENT AREA REQ = 960 SF / 150 = 6.4 SF

VENT AREA AVAIL = (2) 3.26 SF + (1) 4.25 SF = 10.77 SF

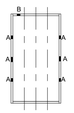
NET AREA AVAIL = 0.6 * 10.77 SF = 6.5 SF



VENT AREA REQ = 1440 SF / 150 = 9.6 SF

VENT AREA AVAIL = (4) 3.26 SF + (1) 4.25 SF = 18.962 SF

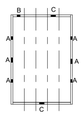
NET AREA AVAIL = 0.6 * 18.962 SF = 11.377 SF



VENT AREA REQ = 1920 SF / 150 = 12.8 SF

VENT AREA AVAIL = (6) 3.26 SF + (1) 4.25 SF = 23.82 SF

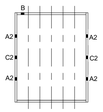
NET AREA AVAIL = 0.6 * 23.82 SF = 14.29 SF



VENT AREA REQ = 2400 SF / 150 = 16 SF

VENT AREA AVAIL = (6) 3.26 SF + (1) 4.25 SF + (2) 1.8 = 27.153 SF

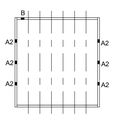
NET AREA AVAIL = 0.6 * 27.15 SF = 16.3 SF



VENT AREA REQ = 2880 SF / 150 = 19.2 SF

VENT AREA AVAIL = (2) 5.55 SF + (1) 4.25 SF + (2) 2.83 = 32.1 SF

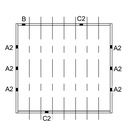
NET AREA AVAIL = 0.6 * 32.1 SF = 19.258 SF



VENT AREA REQ = 3360 SF / 150 = 22.4 SF

VENT AREA AVAIL = (6) 5.55 SF + (1) 4.25 SF = 37.52 SF

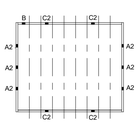
NET AREA AVAIL = 0.6 * 37.52 SF = 22.51 SF



VENT AREA REQ = 3840 SF / 150 = 25.6 SF

VENT AREA AVAIL = (6) 5.55 SF + (1) 4.25 SF + (2) 2.833 = 37.52 SF

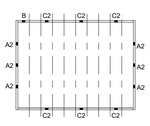
NET AREA AVAIL = 0.6 * 37.52 SF = 25.91 SF



VENT AREA REQ = 4320 SF / 150 = 28.8 SF

VENT AREA AVAIL = (6) 5.55 SF + (1) 4.25 SF + (4) 2.833 = 48.86 SF

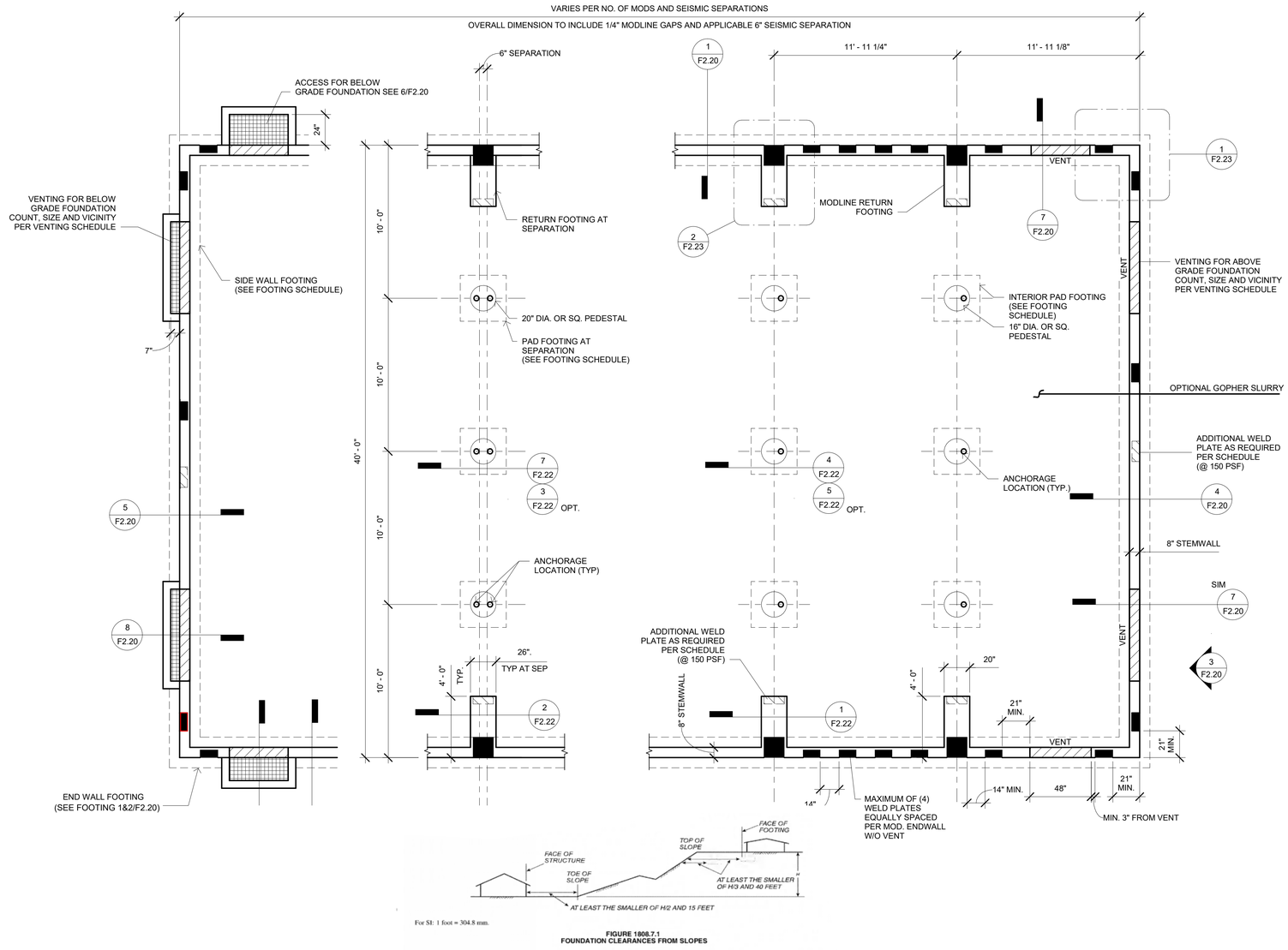
NET AREA AVAIL = 0.6 * 48.86 SF = 29.314 SF



VENT AREA REQ = 4800 SF / 150 = 32 SF

VENT AREA AVAIL = (6) 5.55 SF + (1) 4.25 SF + (6) 2.833 = 54.52 SF

NET AREA AVAIL = 0.6 * 54.52 SF = 32.71 SF



For SI: 1 foot = 304.8 mm.

FIGURE 1808.7.1
FOUNDATION CLEARANCES FROM SLOPES

NOTES:

1. THE FOUNDATION DESIGN CONSIDERS AN ALLOWABLE SOIL BEARING PRESSURE OF 1,500 PSF FOR LOCATIONS THAT DO NOT REQUIRE A SOILS INVESTIGATION REPORT.
2. DISTRICT SHALL BE RESPONSIBLE IN ISSUING AND CONTRACTING A SOILS INVESTIGATION THROUGH A QUALIFIED GEOTECHNICAL ENGINEER FOR LOCATIONS DEEMED QUALIFIED BY CBC 1803A.2.
3. WELD PLATES SAHLL BE PLACED PER PLAN AT 21" MINIMUM FROM BUILDING CORNERS AND 14" MINIMUM FROM ADJACENT WELD PLATE.
4. WELD PLATES WITHIN 21" FROM VENT SHALL REQUIRE REINFORCEMENT HAIRPINNED AROUND THE ANCHOR BOLT CLOSEST TO THE VENT. SEE DETAIL 1/F2.23
5. FOUNDATION OVERALL CONSIDERS A 1/4" GAP AT EVERY MODLINE AND 6" SEISMIC SEPARATION GAP WHEN APPLICABLE.
6. SIZE OF UNDER-FLOOR VENITIALATION CONSIDERS A RATIO OF 1:150 FOR THE TOTAL AREA OF OPENEINGS TO CRAWL SPACE AREA. CRAWL SPACE AREAS FITTED WITH A VAPOR BARIER IN ACCORDANCE WITH IBC, 1203.3.2 SHALL BE PERMITTED A RATIO ADJUSTMENT TO 1:1500.
7. VENTILLATION OPENING SHALL BE COVERED WITH CORROSION RESITANT WIRE WITH THE LEAST DIMENSION NOT GREATER THAN 1/8".

FOOTING SCHEDULE (WOOD FLOOR)

DESIGN FLOOR LIVE LOAD	SIDEWALL FOOTING	ENDWALL FOOTING	INTERIOR PAD FOOTING	PAD FOOTING @ SEPARATION
☐ 50 + 15 PSF	12" WIDE (2) #5 CONT T&B	14" WIDE (3) #5 CONT T&B	3' - 0" SQ (3) #5 EW	3' - 8" SQ (4) #5 EW
☐ 100 PSF	12" WIDE (2) #5 CONT T&B	16" WIDE (3) #5 CONT T&B	3' - 4" SQ (3) #5 EW	4' - 2" SQ (4) #5 EW
☐ 150 PSF	14" WIDE (2) #5 CONT T&B	16" WIDE (3) #5 CONT T&B	4' - 0" SQ (4) #5 EW	4' - 8" SQ (4) #5 EW

FOOTING SCHEDULE (CONCRETE FLOOR)

DESIGN FLOOR LIVE LOAD	SIDEWALL FOOTING	ENDWALL FOOTING	INTERIOR PAD FOOTING	PAD FOOTING @ SEPARATION
☐ 50 + 15 PSF	12" WIDE (2) #5 CONT T&B	14" WIDE (3) #5 CONT T&B	3' - 2" SQ (3) #5 EW	4' - 0" SQ (4) #5 EW
☐ 100 PSF	12" WIDE (2) #5 CONT T&B	16" WIDE (3) #5 CONT T&B	3' - 6" SQ (3) #5 EW	4' - 6" SQ (4) #5 EW
☐ 150 PSF	14" WIDE (2) #5 CONT T&B	16" WIDE (3) #5 CONT T&B	4' - 2" SQ (4) #5 EW	4' - 10" SQ (5) #5 EW

SYMBOLS LEGEND

- L6X4X3/8, 14" LONG WELD PLATE PER SCHEDULE BELOW (SEE 6 / F2.23)
- ADDITIONAL WELD PLATES (FOR 150 PSF OPTION)
- 16"x16"x3/8" WELD PLATE, SEE DETAIl4 / F2.23
- VENT — UNDER FLOOR VENTILATION, SEE VENTILATION SCHEDULE

WELD PLATE SCHEDULE

		L6x4x3/8, 14" LONG		16x3/8 SQ PL
		≤ 100 PSF	150 PSF	≤ 150 PSF
EACH SIDEWALL		3	4	-
EACH MODLINE		-	2	2
EACH END-WALL	24x40	5	7	
	36x40	6	7/10	
	48x40	7	10/13	
	60x40	9	12	
	72x40	10	14	
	84x40	12	17	
	96x40	13	19	
	108x40	15	21	
	120x40	16	23	

PROJECT SPECIFIC STATE AGENCY APPROVAL

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PROFESSIONAL STAMP

02/16/24

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CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

CONCRETE FOUNDATION PLAN

PROJECT NUMBER

22088

DRAWN BY

rMc/SC

CHECKED BY

JA/RT

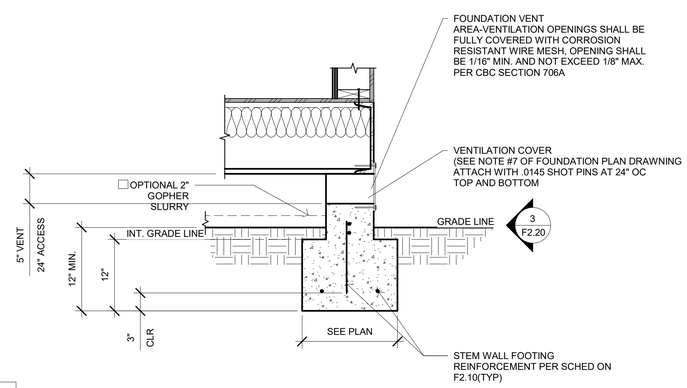
DATE

SHEET NO.

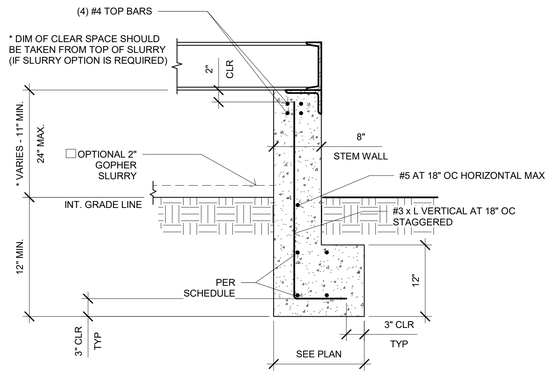
F2.10

SHEET OF

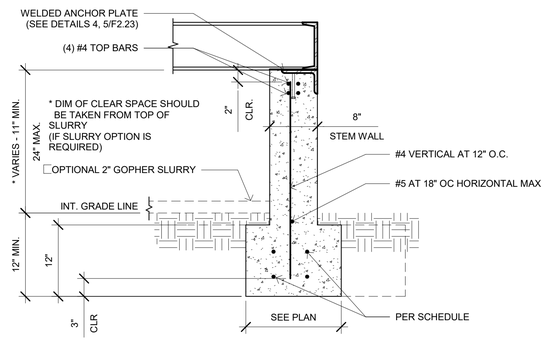
6/16/2021 7:45:10 AM C:\Users\User\Documents\RST#20132 - Class Leasing, PC 24x40 to 120x40 HS_detached_CES4AR24D63.rvt



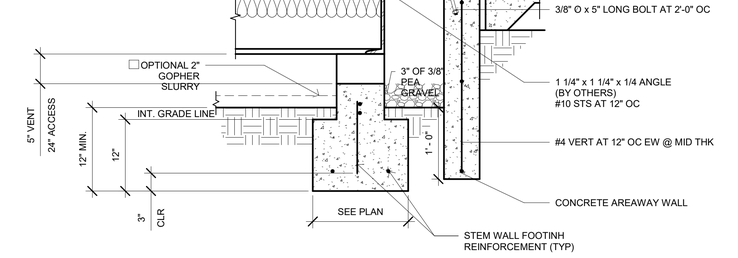
7 *1" = 1'-0"*
VENT/ACCESS SECTION, ABOVE GRADE



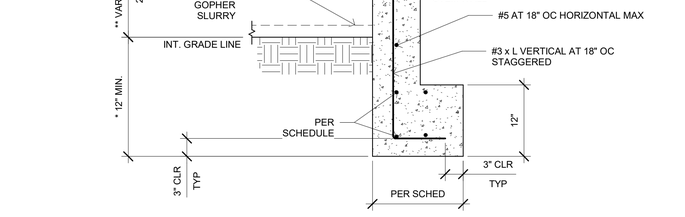
4 *1" = 1'-0"*
SIDE WALL FOOTING, ABOVE GRADE



1 *1" = 1'-0"*
END WALL FOOTING, ABOVE GRADE

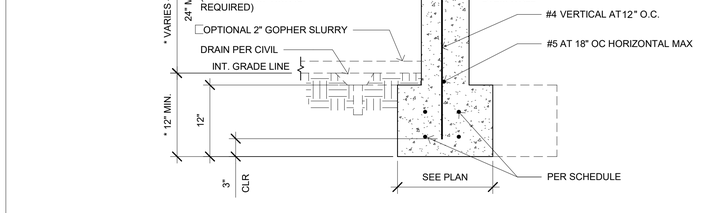


8 *1" = 1'-0"*
VENT/ACCESS SECTION, BELLOW GRADE



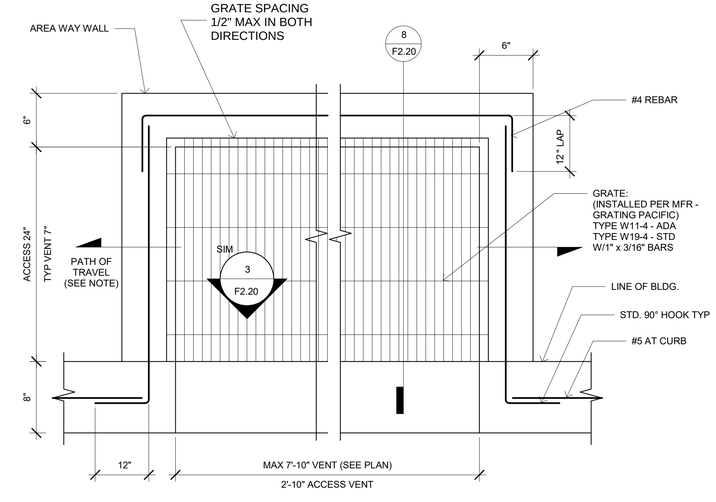
*MINIMUM FOOTING DEPTH w/ INSULATION AT EXTERIOR FOOTINGS.
WHEN INSULATION IS NOT PROVIDED, MIN. FOOTING DEPTH SHALL BE 18" BELOW INT. GRADE

5 *1" = 1'-0"*
SIDE WALL FOOTING, BELOW GRADE

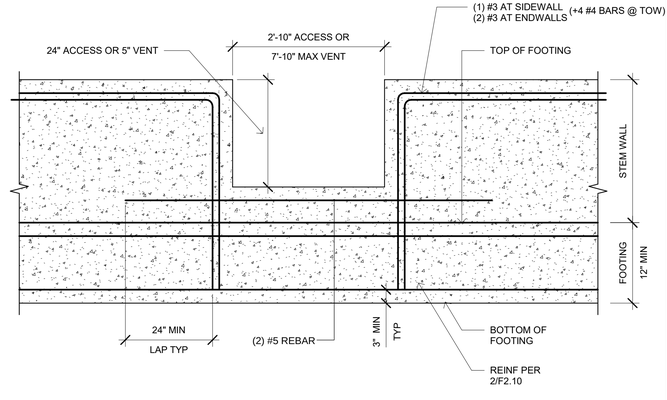


*MINIMUM FOOTING DEPTH w/ INSULATION AT EXTERIOR FOOTINGS.
WHEN INSULATION IS NOT PROVIDED, MIN. FOOTING DEPTH SHALL BE 18" BELOW INT. GRADE

2 *1" = 1'-0"*
END WALL FOOTING, BELOW GRADE



6 *1 1/2" = 1'-0"*
ACCESS VENT FOR BELLOW GRADE FOUDATION



3 *3/4" = 1'-0"*
VENT OPENING

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
11590 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER JAMMY D. FRANCISCO C-53380 03/31/24 CIVIL STRUCTURAL STATE OF CALIFORNIA

RST#22088

02/16/24

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Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
CONCRETE FOUNDATION DETAILS

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
JA/RT

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F2.20
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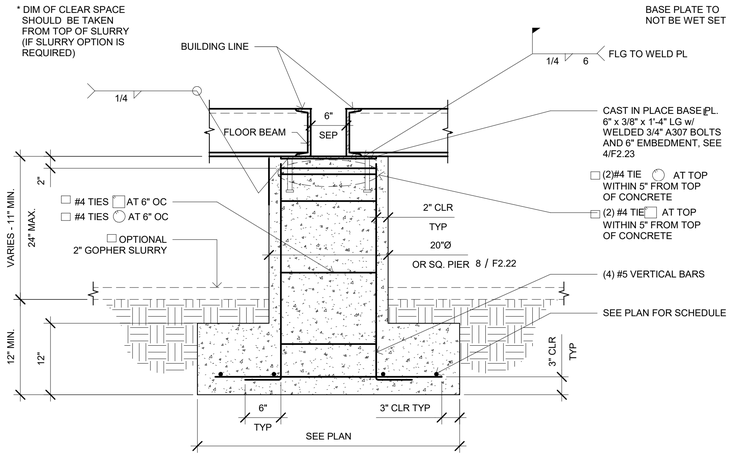
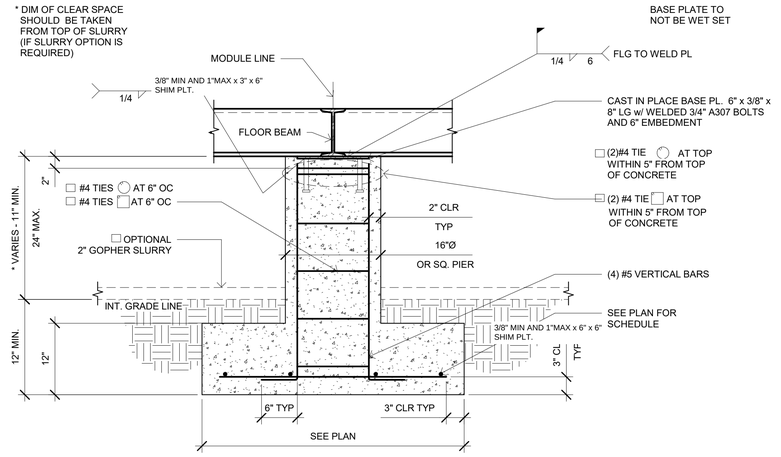
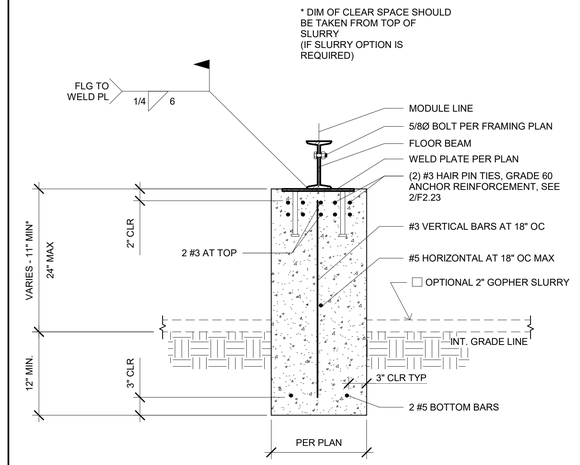


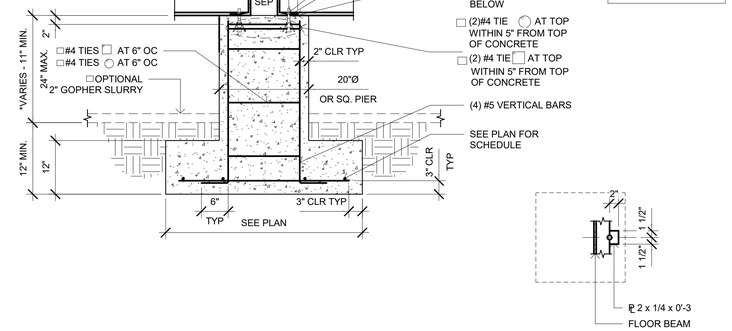
7 *1" = 1'-0"*
INTERIOR PAD FOOTING (AT SEPARATION)



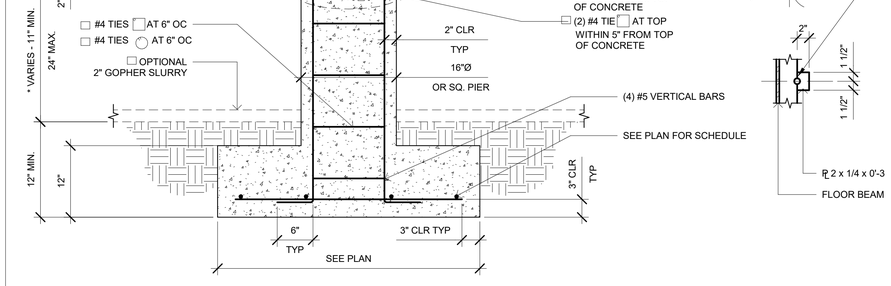
4 *1" = 1'-0"*
INTERIOR PAD FOOTING (ATTACHMENT AT PLATE)



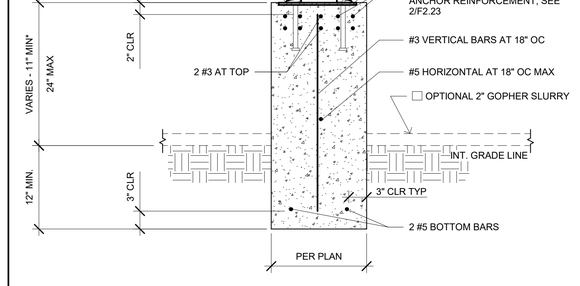
1 *1" = 1'-0"*
INTERIOR RETURN FOOTING



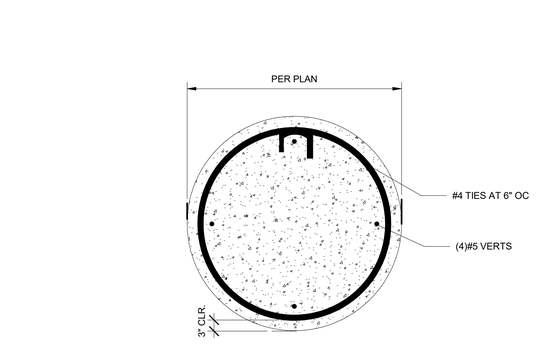
3 *3/4" = 1'-0"*
OPT. INTERIOR PAD FOOTING (AT SEPARATION)



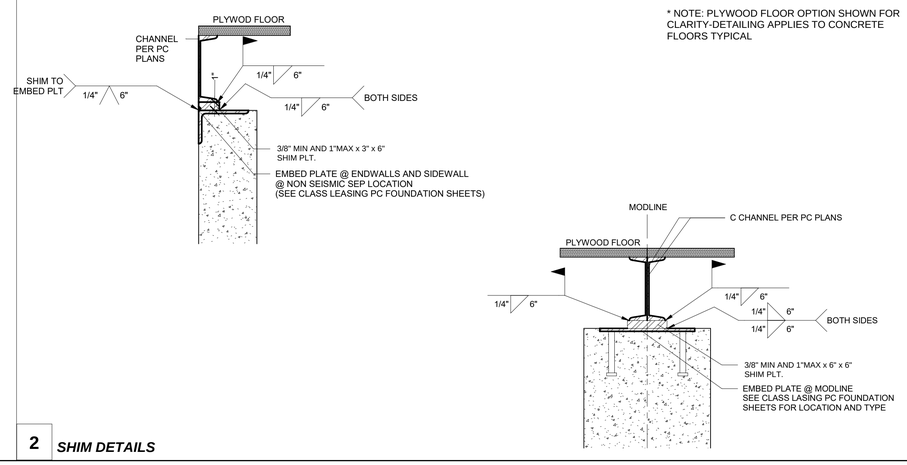
5 *1" = 1'-0"*
OPT. INTERIOR PAD FOOTING (ATTACHMENT AT PLATE)



2 *1" = 1'-0"*
INTERIOR RETURN FOOTING AT SEPARATION



8 *1 1/2" = 1'-0"*
TYP. CIRCULART FTG.



2 ***SHIM DETAILS***

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ♦ CONSULTING ♦ PROJECT MGT
11590 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER MANNY D. FRANCO C-33380 03/31/24 CIVIL STRUCTURAL STATE OF CALIFORNIA
RST#22088
02/16/24

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CONCRETE FOUNDATION DETAILS

PROJECT NUMBER
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rMc/SC

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JA/RT

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SHEET NO.
F2.22
SHEET OF

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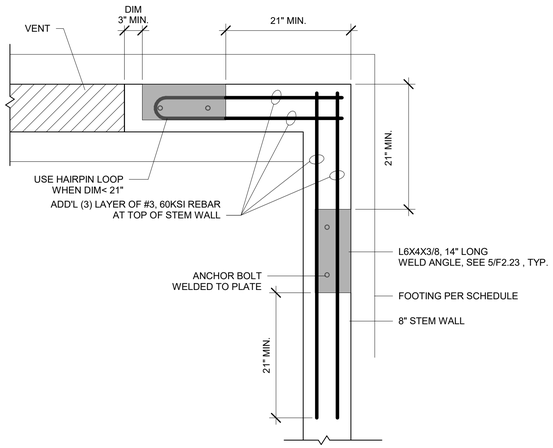
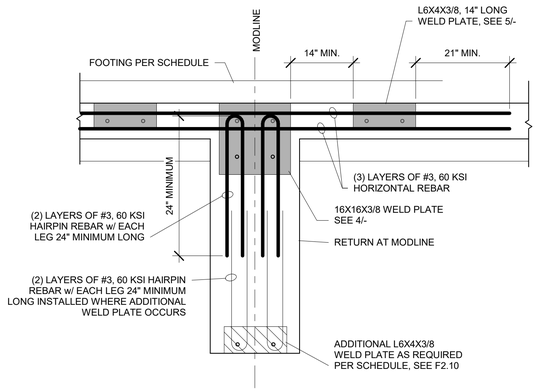
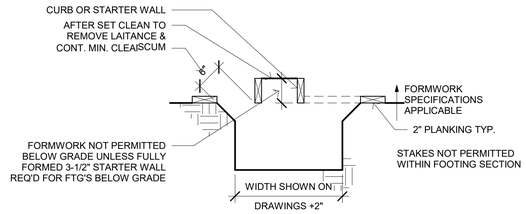


1 ***1" = 1'-0"***
WELD PLATE AT CORNER



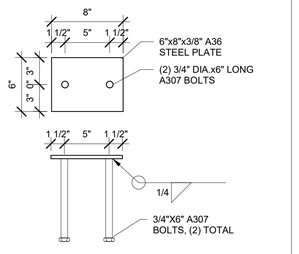
2 ***3/4" = 1'-0"***
RETURN AT MOD LINE

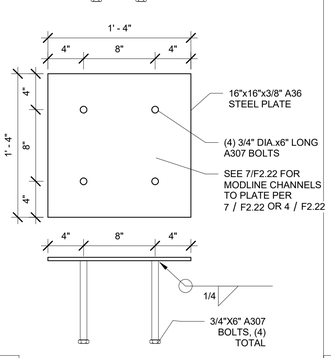
* NOTE: PLYWOOD FLOOR OPTION SHOWN FOR CLARITY-DETAILING APPLIES TO CONCRETE FLOORS TYPICAL



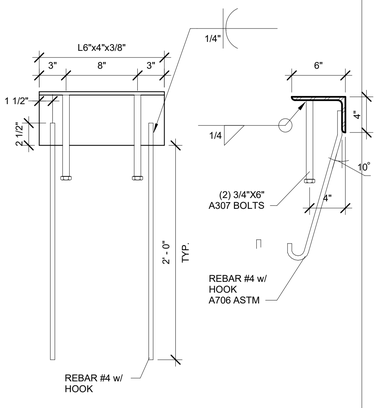
"FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE ARCHITECT (STRUCTURAL ENGINEER). SUBJECT TO THE APPROVAL OF THE DIVISION OF THE STATE ARCHITECT. IN SUCH CASE THE MINIMUM FORMWORK SHOWN ON THE DRAWINGS IS MANDATORY TO INSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO AND DURING THE PLACING OF CONCRETE."

3 ***3/4" = 1'-0"***
MANDATORY MINIMUM FORMWORK (UNLESS FULLY FORMED)

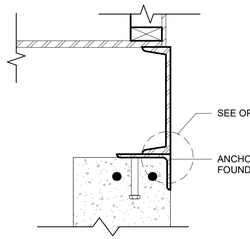




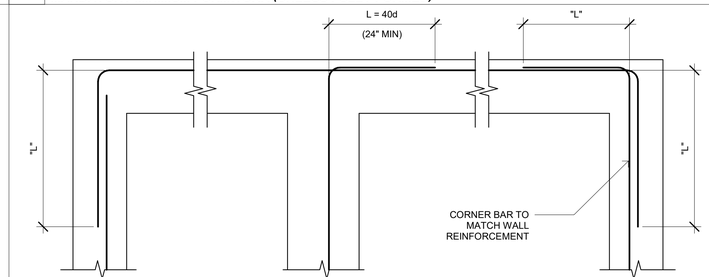
4 ***1 1/2" = 1'-0"***
EMBEDDED PLATE DETAILS



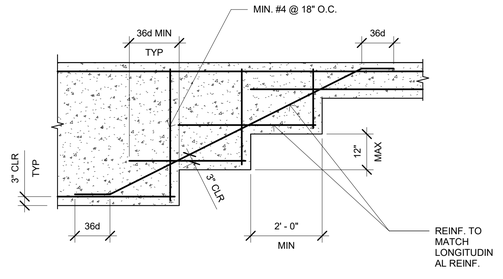
6 ***1 1/2" = 1'-0"***
WELD ANGLE DETAIL3



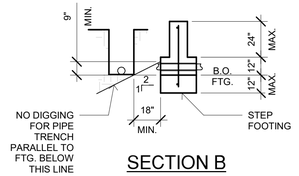
5 ***1 1/2" = 1'-0"***
FOUNDATION - WELDED4



7 ***3/4" = 1'-0"***
TYPICAL REINFORCING AT CORNER AND INTERSECTIONS



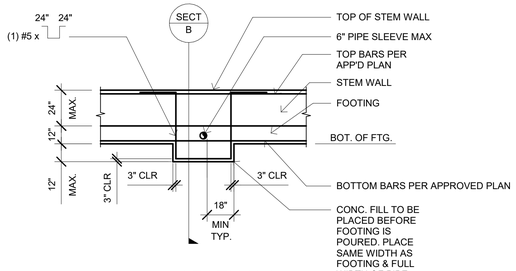
10 ***1/2" = 1'-0"***
TYPICAL STEPPED FOOTING



SECTION B

NOTES:

1. ALL PIPES SHALL BE ENCASED IN SLEEVES W/ 1" CLEAR SPACE AROUND PIPE. SEAL AND MAKE WATERTIGHT WITH PLASTIC MATERIAL (REF CPC SECTION 313.10 SLEEVES)



SECTION A

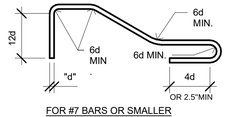
8 ***1/4" = 1'-0"***
PIPE SLEEVE THRU FOUNDATION FOOTING

STANDARD HOOKS FOR PRIMARY REINFORCEMENT	
BAR SIZE, No.	MINIMUM FINISHED BEND DIAMETER[a]
3 THROUGH 8	$6d_b$
9 THROUGH 11	$8d_b$
14 AND 18	$10d_b$

(a) MEASURED ON INSIDE OF BAR

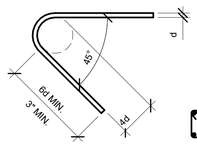
STANDARD HOOKS FOR STIRRUPS AND TIE REINFORCEMENT	
BAR SIZE, No.	MINIMUM FINISHED BEND DIAMETER[b]
3 THROUGH 5	$4d_b$
6 THROUGH 8	$6d_b$

(b) MEASURED ON INSIDE OF BAR

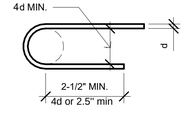


FOR #7 BARS OR SMALLER

TYP. REINF. BENDING DETAIL

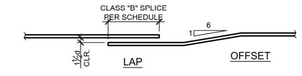


STIRRUP AND TIE HOOK

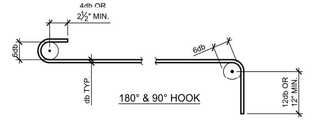


STANDARD HOOK

9 ***1 1/2" = 1'-0"***
TYPICAL REINFORCING BENDING DETAILS



ALTERNATE: PLACE BARS IN CONTACT & WIRE TOGETHER



BAR SIZE #	DEVELOPMENT LENGTH[3]			TYPICAL CLASS B LAP SPLICE LENGTH[4]					
	3000 PSI (IN)	3500 PSI (IN)	4000+ PSI (IN)	3000 PSI		3500 PSI		4000+ PSI	
				TOP[2] (IN)	BOTTOM (IN)	TOP[2] (IN)	BOTTOM (IN)	TOP[2] (IN)	BOTTOM (IN)
3	13	12	12	21	16	20	16	20	16
4	17	16	15	28	22	26	20	24	19
5	21	20	18	35	27	33	25	30	24
6	25	23	22	42	32	39	30	36	28

NOTES:
1. THE ABOVE TABLE IS BASED ON GRADE 60 STEEL.
2. TOP BARS ARE ANY BARS WITH MORE THAN 12" OF CONCRETE PLACED BELOW.
3. DEVELOPMENT LENGTH IS CALCULATED FOR TYP. BARS - ψ_t=1.0
4. LAP SPLICES IN ADJACENT BARS SHALL BE STAGGERED, UNLESS OTHERWISE NOTED.

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ♦ CONSULTING ♦ PROJECT MGT
11590 W Bernardo Court, Suite 100
San Diego, CA 92127
www.rstavares.com

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
JAIMY D. FRANCIS
No. C-53380
03/31/24
CIVIL STRUCTURAL
STATE OF CALIFORNIA
RST#22088
02/16/24

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SHEET OF

6/16/2021 7:45:17 AM C:\Users\User\Documents\RST#20132 - Class Leasing, PC 24x40 to 120x40 HS_detached_CESAR24D63.rvt

STRUCTRUAL STEEL:

A. ALL WORK, UNLESS MODIFIED BY THE CONCTRACT DOCUMENTS, SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT AISC SPECIFICATIONS AND STANDARDS.
B. STEEL SHAPES SHALL COMFORM TO THE FOLLOWING STANDARD:
   a. STRUCTURAL HSS COLUMNS: ASTM A500 GRADE B
   b. STRUCTURAL W-SHAPES: ASTM A992 GRADE 50
   c. TUBE STEEL: ASTM A500 GRADE A
   d. ALL OTHER: ASTM A36

C. FABRICATION, ERECTION, AND SHOP PAINTING SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE AISC *CODE OF STANDARD PRACTICE FOR STEEL BUILDING AND BRIDGES*.
D. HOLES IN STRUCTURAL STEEL SHALL NOT BE PERMITTED, UNLESS SPECIFIED IN THE STRUCTURAL DRAWINGS

CONCRETE

A. ALL CONCRETE WORK, UNLESS MODIFIED BY CONTRACT DOCUMENTS, SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 19A, CBC 2022 AND ACI 318-19.

B. TESTS AND INSPECTION SHALL BE PERFORMED BY A TESTING LABORATRY CONTRACTED BY THE DISTRICT.

C. MIX DESIGN SHALL BE SUBMITTED FOR QUALIFICATION AND PROVIDE A 28-DAY COMPRESSIVE STRENGTH F'C OF 3500 PSI, COMPOSED OF NORMAL WEIGHT TYPE I PORTALAND CEMENT IN CONFORMANCE WITH ASTM C150.

D. FORMWORK SHALL RESULT IN FINAL STRUCTURE THAT CONFORMS TO SHAPES, LINES, AND DIMENSIONS AS REQUIRED BY THE CONTRACT DOCUMENTS.

E. LOCATIONS OF VENTS AND OPENINGS FOR MECHANICAL AND ELECTRICAL USE SHALL BE VERIFIED BY ARCHITECT.

F. EMBEDMENT OF MATERIALS NOT HARMFULL TO CONCRETE AND WITHIN LIMITATIONS OF SECTION 20.6, ACI-318-19 SHALL BE PERMITTED. REFER TO OTHER DISCIPLINES FOR LOCATION OF CONDUIT, PIPES, FITTINGS, SLEEVES, ETC.

G. CONTINUOUS BATCH PLANT INSPECTION WAIVED PER CBC 1705A3.3. WHEN CONTINUOUS BATCH PLANT INSPECTION IS WAIVED, THE FOLLOWING PERIODIC INSPECTION SHALL BE REQUIRED:(INSPECTIONS PROVIDED BY DISTRICT)

1. QUALIFIED TECHNICIAN OF THE TESTING LABORATORY SHALL CHECK THE FIRST BATCH AT THE START OF THE DAY.
2. LICENSED WEIGHMASTER TO POSITIVELY IDENTIFY MATERIALS AS TO QUANTIFY AND CERTIFY TO EACH LOAD BY A BATCH TICKET.
3. BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD, SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY A TRUCK DRIVER WITH THE LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR WILL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK, ITS LOAD, AND TIME OF RECEIPT, AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND WILL TRANSMIT A COPY OF THE DAILY RECORD TO THE ENFORCEMENT AGENCY.

H. ANCHOR BOLTS, AND REINFORCING STEEL SHALL BE SECURELY TIED BEFORE CONCRETE IS POURED.

CONCRETE MIX

IN ADDITION TO THOSE REQUIREMENTS DICTATED BY THE PC DESIGN, THE CONCRETE MIX USED IN THE FOUNDATION ELEMENTS SHALL COMPLY WITH THE DURABILITY REQUIREMENTS OF AMERICAN CONCRETE INSTITUTE (ACI) 318 SECTION 19.3. THE PC DRAWINGS SHALL ACCOUNT FOR THE DEPENDENCY OF THESE DURABILITY REQUIREMEMNTS ON SITE-SPECIFIC CHARACTERISTICS.

A. WHEN THE PC DRAWINGS DO NOT REQUIRE A SITE-SPECIFIC GEOTECHNICAL REPORT THAT QUANTIFIES SULFATE CONTENT IN THE SOIL, THE PC DRAWINGS SHALL REQUIRE A CONCRETE MIX SHALL COMPLYING WITH ONE OF THE FOLLOWING PER ACI 318 TABLE 19.3.2.1. SEE THIS SHEET A.1 & A.2 FOR OPTIONS

B. MAXIMUM WATER/CEMENT RATION OF 0.45; MINIMUM COMPRESSIVE STRENGTH OF 4,500 POUNDS PER SQUARE INCH (PSI); TYPE V CEMENT PLUS POZZOLAN OR SLAG CEMENT COMPLYING WITH FOOTNOTE 7; AND PROHIBITION OF ADMIXTURES CONTAINING CALCIUM CHLORIDE

C. MAXIMUM WATER/CEMENT RATIO OF 0.40; MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI; TYPE V CEMENT COMPLYING WITH FOOTNOTE 8; AND PROHIBITION OF ADMIXTURES CONTAING CALCIUM CHLORIDE.

D. WHEN THE PC DRAWINGS REQUIRE A SITE-SPECIFIC GEOTECHNICAL REPORT THAT QUANTIFIES SULFATE CONTENT IN THE SOIL, THE PC DRAWINGS SHALL CLEARLY STATE THE EXPOSURE CLASS FOR EACH CATAGORY (I.E., F, S, W, AND C) OR COMBINATION THEREOF THE PC DESIGN IS APPROVED FOR. THE MAXIMUM WATER/CEMENT RATIO, MINIMUM COMPRESSIVE STRENGTH, CEMENTITOUS MATERIAL REQUIREMENTS, AND ADMIXTURE LIMITATIONS SHALL BE STATED ON THE PC DRAWINGS FOR EACH APPROVED CASE.

E. BOTH APPROACHES GIVEN SECTIONS 5.5.1 AND 5.5.2 ABOVE CAN BE INCLUDED ON THE PC DRAWINGS AS ALTERNATE OPTIONS IN ACCORDANCE WITH SECTION 1.4 ABOVE

F. CONCRETE EXPOSE TO THAW AND FREEZE CYCLES SHALL BE AIR ENTRAINED PER ACI 318 SECTION 19.3.3.1

STEEL REINFORCEMENT

A. DEFORMED BARS SHALL CONFORM TO ASTM A615.
B. fy= 60,000 PSI, FOR ALL BARS EXEPT FOR #3 BARS, fy= 40,000 PSI.
C. PROVIDE A MINIMUM CONCRETE COVER FOR REINFORCEMENT EMBEDDED IN:
   a. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH = 3"
   b. CONCRETE EXPOSED TO EARTH OR WEATHER FOR #5 BARS OR SMALLER = 1.5"
D. SPLICE LENGTHS SHALL BE A MINIMUM OF 48" FOR #5 BARS, AND 30" FOR #4 BARS UNLESS OTHERWISE SPECIFIED IN DRAWINGS.

BOLTS

A. ALL BOLTS AND ANCHOR BOLTS SHALL COMFORM TO ASTM A-307
B. BOLTS EXPOSED TO THE ELEMENTS SHALL BE GALVANIZED BY THE HOT-DIP OR MECHANICAL PROCESS

WELDING

A. ALL WELDING SAHLL BE IN COMFORMANCE TO:
   a. AWS D1.1, EXCEPT AS MODIFIED IN SECTION J2, AISC-360 FOR STEEL
   b. AWS D1.3 FOR LIGHT GAUGE STEEL
   c. AWS D1.4 FOR REINFORCING STEEL

B. ELECTRODE CLASSIFICATION:
   a. E70XX FOR STEEL AND CONCRETE STEEL REINFORCEMENT
   b. E60XX FOR LIGHT GAUGE STEEL

C. WELDS SHALL BE CAPABLE OF PRODUCING THE FOLLOWING V-NOTCH TOUGHNESS AS DETERMINED BY APPROPRIATE AWS A5 CLASSIFICATION TEST METHOD OR MANUFACTURER CERTIFICATION:
   a. LATERAL FORCE RESISTING SYSTEM (LFRS) = 20 FT-LB AT 0 DEGREE F
   b. COMPLETE JOINT PENETRATION GROOVE WELD = 20 FT-LB AT 40 DEGREE F

D. SHOP AND FIELD WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS.

E. INSPECTION:
   a. PERIODIC INSPECTION OF FILLET WELDS LESS THAN OR EQUAL TO 5/16", FLOOR AND ROOF DECK WELDS.
   b. CONTINUOUS INSPECTION FOR OTHER WELDS.

F. NONDESTRUCTIVE TESTING (NDT):
   a. ULTRASONIC TESTING SHALL BE PERFORMED ON 100 PERCENT OF CJP GROOVE WELDS IN MATERIALS 5/16" OR THICK OR GREATER. ULTRASONIC TESTING NOT REQUIRED FOR MATERIALS LESS THAN 5/16" THICK. TESTING FREQUENCY MAY BE REDUCED TO 25%, PROVIDED PROVISIONS SET FORTH IN SECTION N5.5e, AISC-360 IS MET.
   b. MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25 PERCENT OF ALL BEAM-TO-COLUMN CJP GROOVE WELDS. TESTING FREQUENCY MAY BE REDUCED TO 10%, PROVIDED PROVISIONS SET FORTH IN J6.2g, AISC-341 IS MET.

FOUNDATIONS

GEOTECHNICAL INVESTIGATION SHALL BE CONDUCTED IN ACCORDANCE WITH SECTION 1803A.1 THROUGH 1803A.8 BY GEOTECHNICAL ENGINEER CONTRACTED BY THE DISTRICT. ALLOWABLE FOUNDATION AND LATERAL SOIL PRESSURE VALUES MAY BE DETERMINED FROM TALBLE 1806A.2, WHERE GEOTECHNINCAL REPORTS IS NOT REQUIRED PER SECT 1803A.2. A MAXIMUM ALLOWABLE SOIL PRESSURE OF 1000 PSF AND 1500 PSF SHALLBE PERMITTED FOR TEMPORARY W AND PERMANENT CONCRETE FOUNDATIONS RESPECTIVELY IN ACCORDANCE WITH SECTION 4.6, IR 16-1

A PREVIIOUS REPORT FOR A SPECIFIC SITE MAY BE RESUBMITTED. THE ALLOWABLE FOUNDATIONA AND LATERAL SOIL PRESSURE VALUES ARE ALLOWED A 33% INCREASE FOR SHORT TERM WIND AND SEIMIC LOADS.

THE DISTRCT SHALL BE RESPONSIBLE FOR EXCAVATION, BACKFILL, SETTING ELEVATIONS, CRANING AND RIGGING. PROVIDE SHIMS TO LEVEL BUILDING WITHIN 1/2" TOLERANCE.

COLD-FORMED STEEL:

A. ALL WORK SHALL, UNLESS MODIFIED BY THE CONCTRACT DOCUMENTS, SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT AISI SPECIFICATIONS AND STANDARDS.

B. MATERIAL SPECIFICATION:
   a. ASTM A-1011/A, GRADE 33 FOR MATERIALS THICKNESS 0.120 OR LESS UNLESS OTHERWISE NOTI
   b ASTM A-1003, GRADE 33 TYPE H FOR LIGHT GUAGE STUDS AND TRACKS
   c. SHAPES SHALL BE DIMENSIONED TO SSMA SPECIFICATIONS.

C. SCREWS EXPOSED TO THE ELEMENTS SHALL BE GALVANIZED

STEEL DECK

MINIMUM THICKNESS PERMITTED FOR FLOOR STEEL DECKS IS 20GA. PER DSA IR 16-1, 1.2.1, MINIMUM THICKNESS OF NON-STRUCTURAL STEEL ROOF DECKING IS 26GA. STANDING SEAM ROOF PANELS ARE GRADE 40 SHEET STEEL WITH ALUMINUM ZINC COATING CONFORMING TO ASTM A792 AND AZ55.

CHANGES

CHANGES AFFECTING STRUCTURAL PORTION OF THE APPROVED PC SHALL NEED DSA APPROVAL AND SHALL BE CLASSIFIED AS CCD CATEFORY A.

WOOD

ALL FRAMING LUMBER SHALL BE GRADE MARKED BY AN APPROVED GRADING AGENCY

SHEATHING:

EACH SHEET SHALL BE GRADE MARKED BY THE AMERICAN PLYWOOD ASSOCIATION IN ACCORDANCE WITH THE PROCEDURES AND QUALIFICATIONS SET FORTH BY PS 1-19.

1. SUB FLOOR: 1 1/8" T&G UNBLOCKED PLYWOOD, SHALL PROVIDE A SMOOTH AND UNIFORM SURFACE

   CAPABLE OF ACCEPTING CARPET FINISH
2. PLYWOOD ROOF DECK OPTION: APA RATED 3/4" T&G OSB OR EQUIVALENT RATED SHEATHING
3. EXTERIOR WALL SIDING:
   I. STANDARD: 5/8" DURATEMP OR 5/8" SMART PANEL
   II. OPTION: 5/8" MOD
   III. OPTION: 1/2" OSB OR CDX PLYWOOD FOR PLASTER/STUCCO FINISH
   IV. OPTION: 1/2" OSB OR CDX PLYWOOD FOR HARDIE BOARD (LAP SIDING) FINISH

4. EXTERIOR WALL SIDING ATTACHMENT:

   FASTENERS USED FOR THE ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE HOT-DIPPED GALVANIZED, MECHANICALLY DEPOSITED ZINC-COATED, STAINLESS, SILICON BRONZE OR COPPER PER CBC SECTION 2304.10.1.1

   FASTEN TO WOOD FRAMING WITH 8D BOX NAILS @ 6" E.N., 12" F.N.
   FASTEN TO LIGHT GAGE METAL FRAMING WITH #8 WAFER HEAD STSMS @ 6" E.N., 12" F.N.
   FASTEN TO STRUCTURAL STEEL WITH #12 STSMS OR 0.145 DIAM SHOT PINS @ 12" O.C.

TREATED WOOD:

ALL WOOD LOCATED WITHIN 6" OF EXPOSED EARTH SHALL BE "PRESERVATIVE TREATED" OR SHALL BE "NATURALLY DURABLE" MATERIAL IN ACCORDANCE WITH CBC SECTION 2304.12.1.2.
1. ALL ROUGH LUMBER SHALL BE DF #2 OR BETTER.
2. ALL POWER DRIVEN FASTENERS SHALL BE HILTI FASTENERS ICC# ESR-1663, AND RAMSET POWER DRIVEN FASTENERS (ICC # ESR-1799), OR SIMPSON POWER DRIVEN FASTENERS ICC #ESR-2138, OR OTHER EQUIVALENT PRODUCTS WITH ICC REPORTS AND AIPPROVED BY DSA.
3. FASTENERS, INCLUDING NUTS AND WASHERS, IN CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER PER CBC 2304.10.1.1

ROOF DIAPHRAGM:

3/4" T&G RATED SHEATHING UNBLOCKED DIAPHRAGM, EXPOSURE 1, 48/24 SPAN RATING
FASTEN AT METAL SUPPORTS W/ #10 x 1 1/4" SELF-TAPPING PHILLIPS FLAT-HEAD ZINC COATED TEKS SCREWS @ 6" BN/CON. EDGE, 6" EN, AND 12" O.C. FN. PROVIDE A MINIMUM OF 3/8" EDGE DISTANCE FOR FASTENERS TO PLYWOOD EDGE PER CBC SECTION 2306.2.
NOTE: ALL PANEL EDGES SHALL BE ATTACHED TO FRAMING MEMBERS OR BLOCKING. WHERE USED AS BLOCKING, FLAT STRAPPING SHALL BE A MINIMUM THICKNESS OF 33MILS WITH A MINIMUM WIDTH OF 1.5 INCHES AND SHALL BE EITHER INSTALLED BELOW SHEATHING. FOR OTHER THAN STEEL SHEATHING, THE SCREWS SHALL BE INSTALLED THROUGH THE SHEATHING TO THE BLOCKING.

FLOOR DIAPHRAGM:

1 1/8" PLYWOOD UNBLOCKED DIAPHRAGM - STURD-I-FLOOR T&G RATED SHEATHING, EXTERIOR, 48" oc SPAN RATING
FASTEN AT METAL SUPPORTS W/ #10 - 24 x 2" SELF-TAPPING PHILLIPS FLAT-HEAD ZINC COATED TEKS @ 6" O.C. BN/CON. EDGE, 6" O.C. EN, 12" FN. PROVIDE A MINIMUM OF 3/8" EDGE DISTANCE FOR FASTENERS TO PLYWOOD EDGE PER CBC SECTION 2306.2
NOTE: ALL PANEL EDGES SHALL BE ATTACHED TO FRAMING MEMBERS OR BLOCKING. WHERE USED AS BLOCKING, FLAT STRAPPING SHALL BE A MINIMUM THICKNESS OF 33MILS WITH A MINIMUM WIDTH OF 1.5 INCHS AND SHALL BE EITHER INSTALLED BELOW SHEATHING. FOR OTHER THAN STEEL SHEATHING, THE SCREWS SHALL BE INSTALLED THROUGH THE SHEATHING TO THE BLOCKING.

CONCRETE FLOOR DATA: LIGHTWEIGHT CONCRETE FLOOR
STRENGTH: 3500 PSI
TYPE: I OR II
DESINTY: 110 PCF - MAX

DIMENSION LUMBER ATTACHMENT TO STEEL FRAMING:

2 x STUDS AT CORNER STEEL COLUMNS (NAILING STUD)
USE: #10 - 24 x 2 1/2" LG. SELF-DRILLING SELF-TAPPING PHILLIPS FLAT-HEAD WITH WASHER ZINC COATED TEK SCREWS AT 24" OC.

NAILING NOTES:

1. ALL NAILS SHALL BE COMMON UNLESS OTHERWISE NOTED
2. MACHINE APPLIED 16d FASTENERS SHALL HAVE AN EMBEDMENT OF NOT LESS THAN 1 1/2" INTO THE SECOND MEMBER, AND SHALL NOT BE LESS THAN 3" IN OVERALL LENGTH.
3. NAILS SHALL BE ACCEPTABLE FOR HAND NAILING, PROVIDED THE REQUIREMENT EMBEDMENT IS MAINTAINEI

CONNECTIONS AND FASTENERS:

ALL CONNECTIONS AND FASTENERS IN DRAWINGS CAN BE SUBSTITUTED BY AN EQUIVALENT PRODUCT PROVIDING REPORTS ARE SUBMITTED TO AND APPROVED BY DSA.

CONNECTIONS LAG SCREWS:

LAG SCREWS SHALL BE INSTALLED WITH WASHER AND TURNED BY WRENCH, OVER-TORQUING SHALL BE AVOIDED. PRE-DRILLED CLEARANCE AND LEAD HOLE SHALL BE REQUIRED AS DESCRIBED BELOW:

a) THE CLEARANCE HOLE FOR THE UNTHREADED PORTION OR THE SHANK SHALL HAVE SAME DEPTH AND DIAMETER.

b) THE LEAD HOLE FOR THE THREADED PORTION OF THE SHANK SHALL HAVE SAME DEPTH AND
65% TO 85% OF SHANK DIAMETER FOR LUMBER WITH SPECIFC GRAVITY OF, G > 0.6
60% TO 75% OF SHANK DIAMETER FOR LUMBER WITH SPECIFC GRAVITY OF, 0.5 < G ≤ 0.6
40% TO 70% OF SHANK DIAMETER FOR LUMBER WITH SPECIFC GRAVITY OF, G ≤ 0.5

LEAD OR CLEARANCE HOLES SHALL NOT BE REQUIRED FOR 3/8" DIAMETER OR SMALLER LAG SCREWS.

NAILING SCHEDULE: (ALL NAILS SHALL BE COMMON OR BOX NAILS, GALVANIZED WHERE EXPOSED) PER CBC TABLE 2304.10.2

CONNECTION	COMMON FASTENERS QTY	SIZE	SPACING O.C.	BOX NAIL FASTENERS QTY	SIZE	SPACING O.C.	LOCATION
1. JOIST TO SILL OR GIRDER	3-	8d		3-	10d		TOENAIL
2. BRIDGING TO JOIST	2-	8d		2-	10d		TOENAIL EA. END
3. 1X6 OR LESS SUBFLOOR TO EA. JOIST	2-	8d		2-	10d		FACE NAIL
WIDER THAN 1X6 SUBFLOOR							
4. TO EA. JOIST	3-	8d		3-	10d		FACE NAIL
5. 2" SUBFLOOR TO JOIST	2-	16d		N/A	N/A	N/A	BLIND & FACE NAIL
SOLE PLT. TO JOIST OR BLK'G							
6. TO EA. JOIST		16d	@ 16"		16d	@ 12"	FACE NAIL
SOLE PLT. TO JOIST OR BLK'G @ BRACED WALL PANEL	3-	16d	@ 16"	3-	16d	@ 16"	TYP. FACE NAIL
7. TOP PLT. TO STUD	2-	16d		3-	10d		END NAIL
8. STUD TO SOLE PLT.	2-	16d		3-	10d		END NAIL
OR	4-	8d		4-	10d		TOENAIL
9. DOUBLE STUDS		16d	@ 24"		10d	@ 16"	FACE NAIL
10. DOUBLE TOP PLT.		16d	@ 16"		10d	@ 12"	TYP. FACE NAIL
DOUBLE TOP PLT.	8-	16d	MIN. U.N.O.	12-	10d		24" MIN LAP SPLICE
BLKG. BTW. JOIST OR RAFTERS TO TOP PLT.	3-	8d		3-	10d		TOENAIL
12. RIM JOIST TO TOP PLT.		8d	@ 6"		10d	@ 6"	TOENAIL
TOP PLT., LAPS &							
13. INTERSECTIONS	2-	16d		3-	10d		FACE NAIL
14. CONT. HDR. 2 PIECES		16d	@ 16"				ALONG EDGE
15. CLG. JOIST TO PLT.	3-	8d		3-	10d		EA. JOIST, TOENAIL
16. CONT. HDR. TO STUD	4-	8d		4-	10d		TOENAIL
CLG. JOIST LAP OVER							
17. PARTITIONS	3-	16d		4-	10d		FACE NAIL
CLG. JOIST PARALLEL TO							
18. RAFTERS	3-	16d		SEE TABLE 2308.7.3.1			FACE NAIL
19. RAFTER TO PLT.	3-	8d		3-	16d		TOENAIL"
1" DIA. BRACE TO EZ. STUD &							
20. PLT.	2-	8d		2-	10d		FACE NAIL
21. 1X8 SHT'G. TO EA. BRG.	3-	8d		3-	10d		FACE NAIL
WIDER THAN 1X8 SHT'G TO							
22. BRG.	3-	8d		3-	10d		FACE NAIL
23. BUILT-UP CORNER STUDS		16d	@ 24"				FACE NAIL
24. BUILT-UP GIRDERS & BEAMS		20d	@ 32"		10d	@ 24"	FACE NAIL @ TOP & BTM. STAGR. ON OPP. SIDES
	2-	20d		N/A	N/A	N/A	FACE NAIL @ ENDS & @ EA. SPLICE
25. 2" PLANKS	2-	16d		N/A	N/A	N/A	@ EA. BRG.
26. COLLAR TIE TO RAFTER	3-	10d		4-	10d		FACE NAIL
27. JACK RAFTER TO HIP	3-	10d		4-	16d		TOENAIL
28. ROOF RAFTER TO 2X RIDGE	2-	16d		3-	10d		END NAIL
29. JOIST TO BAND JOIST	3-	16d		4-	10d		END NAIL
30. 4X BLOCKING TO STUDS	1-	A34		N/A	N/A	N/A	FACE NAIL
OR	4-	8d		4-	10d		TOENAIL

A.) NAILS SPACED AT 6 INCHES AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPGHRAMS AND SHEAR WALLS, REFER TO SECTION 2305 NAILS. FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.

B.)SPACING SHALL BE 6 INCHES ON CENTER ON THE EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16 INCHES (20 INCHES IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).

C.) WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

D.) RSRS-01 IS A ROOF SHEATHING RING SHANK NAIL MEETING THE SPECIFICATIONS IN ASTM F1667

DECIMAL AND GAUGE CHARTS

FRACTION	DECIMAL
1/32	0.03125
1/16	0.0625
3/32	0.09375
1/8	0.125
5/32	0.15625
3/16	0.1875
7/32	0.21875
1/4	0.25
9/32	0.28125
5/16	0.3125
11/32	0.34375
3/8	0.375
13/32	0.40625
7/16	0.4375
15/32	0.46875
1/2	0.5
17/32	0.53125
9/16	0.5625
19/32	0.59375
5/8	0.625
21/32	0.65625
11/16	0.6875
23/32	0.71875
3/4	0.75
25/32	0.78125
13/16	0.8125
27/32	0.84375
7/8	0.875
29/32	0.90625
15/16	0.9375
31/32	0.96875
1	1

PENNY	GAUGE	DEC.
60d, 40d	4	0.2242
30d	5	0.2092
20d	6	0.1943
	7	0.1793
16d	8	0.1644
12d, 10d	9	0.1495
8d	10	0.1345
6d	11	0.1196

12" = 1'-0"
STRUCTURAL NOTES

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT
11777 Bernardo Plaza Court, Suite 105
San Diego, CA 92128

PROFESSIONAL STAMP

02/16/24

THE PLANS, IDEAS & DESIGNS SHOWN ON THESE DRAWINGS ARE THE PROPERTY OF R&S TAVARES ASSOCIATES, INC. DEVISED SOLELY FOR THIS CONTRACT. THESE PLANS SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH THEY WERE NOT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF R&S TAVARES ASSOCIATES, INC. ©

CLIENT

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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 60' EXPANDABLE TO 72' x 60'

SHEET TITLE

STRUCTURAL GEN NOTES

PROJECT NUMBER 22088

DRAWN BY rMc/SM

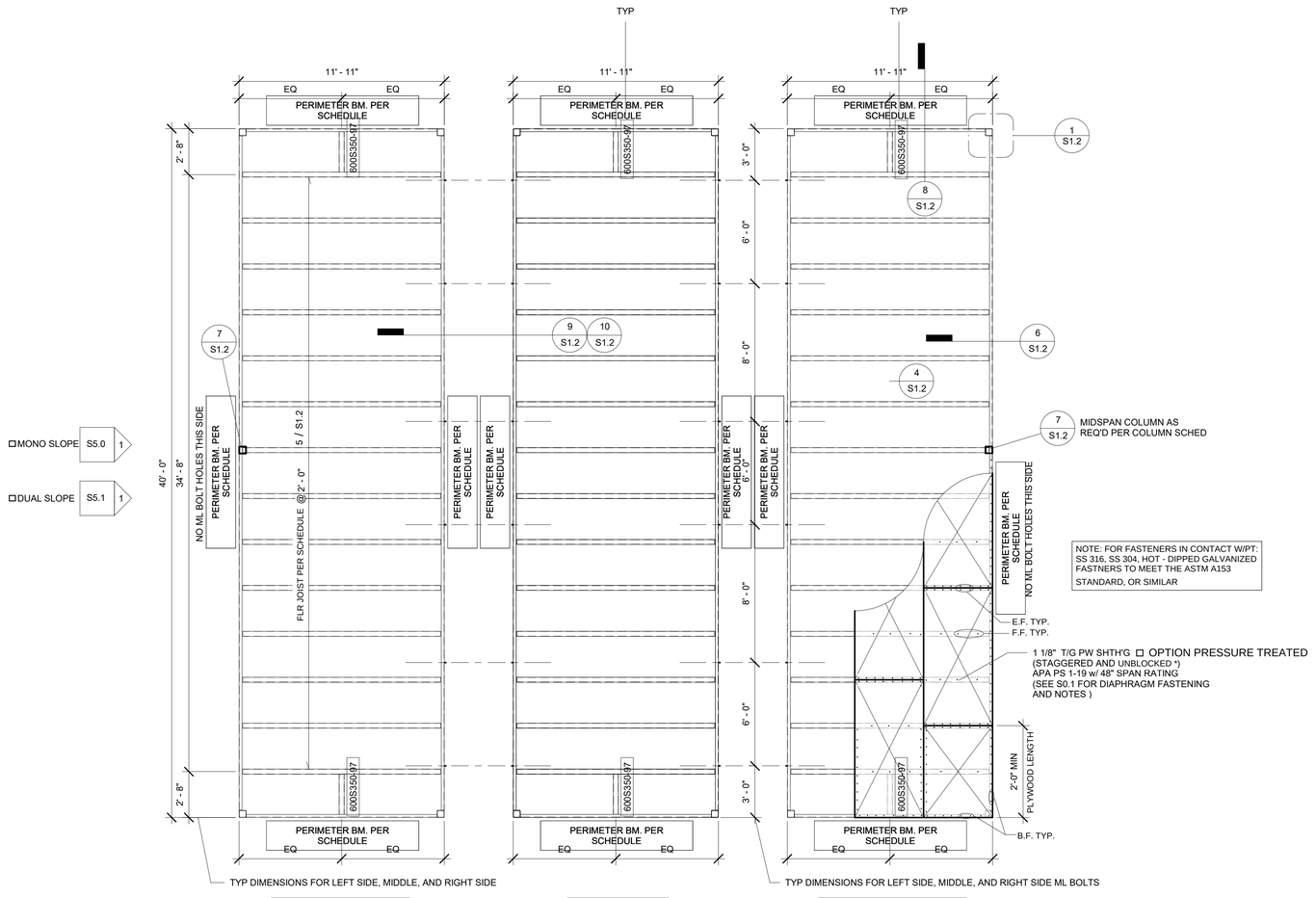
CHECKED BY JA/RT

DATE

SHEET NO. S0.1

SHEET OF

6/16/2021 7:18:48 AM C:\Users\User\Documents\20133 - Aries, 24x60 PC -High Seismic MainFile_detached_CES&R24D63.rvt



LEFT SIDE MOD

MIDDLE MOD

RIGHT SIDE MOD

☐MONO SLOPE S5.0 1

☐DUAL SLOPE S5.1 1

* NOTE: ALL PANEL EDGES SHLL BE ATTACHED TO FRAMING MEMBERS OR BLOCKING. WHERE USED AS BLOCKING, FLAT STRAPPING SHALL BE A MINIMUM THICKNESS OF 33MILS WITH A MINIMUM WIDTH OF 1.5 INCHES AND SHALL BE EITHER INSTALLED ON TOP OF OR BELOW SHEATHING. FOR OTHER THAN STEEL SHEATHING, THE SCREWS SHALL BE INSTALLED THROUGH THE SHEATHING TO THE BLOCKING.

FOOTNOTES:
1. APPLICABLE FOR OCCUPANCY E
2. APPLICABLE FOR OCCUPANCY E &B

Floor Joist Schedule		
FLL	JOIST	SPACING
☐ 50+15 PSF[1]	600S350-97	24" O.C.
☐ 100 PSF [1]	600S350-97	24" O.C.
☐ 150 PSF * [2]	600S350-97	16" O.C.

* SHTH'G BLOCKED FIRST 5 FEET EACH END W/ #10-24x2" SELF-TAPPING PHILIPS FLAT ZINC COATED TEKS @ 6" EN & 4" BN & 12" FN

Perimeter Floor Beam Schedule			
HT	No Plaster Walls	Plaster Walls	w/ Parapet, 18" max
☐ 9'	C10x15.3	C10x15.3	C10x15.3
☐ 10'	C10x15.3	C10x15.3	C10x15.3

NOTE: SPLICE AT FLOOR BEAM PERMITTED PER 3/S1.2

Column Schedule			
HT	No Plaster Walls	Plaster Walls	w/ Parapet, 18" max
☐ 9'	5x5X1/4	5x5X1/4	6x6X1/4
☐ 10'	6x6X1/4	6x6X1/4	6x6X1/4
			3x3X3/16 mid-span column

1 ***1/4" = 1'-0"***
WD Shth'g Flr Framing Plan (50+15 PSF)

6/8/2021 1:52:17 AM C:\Users\User\Documents\RST#20132 - Class Leasing, PC 24x40 to 120x40 HS_detached_CES\AR24D63.rvt

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
11590 W Bernardo Court, Suite 100
San Diego, CA 92127
www.rstavares.com

PROFESSIONAL STAMP

RECORDED PROFESSIONAL ENGINEER
MANNY D. FRANCO
C-33380
03/31/24
STRUCTURAL
STATE OF CALIFORNIA

RST#22088

02/16/24

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CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

WD SHTH'G FLR FRM'G PLAN
50 + 15 PSF
100 PSF
150 PSF

PROJECT NUMBER

22088

DRAWN BY

rMc/SC

CHECKED BY

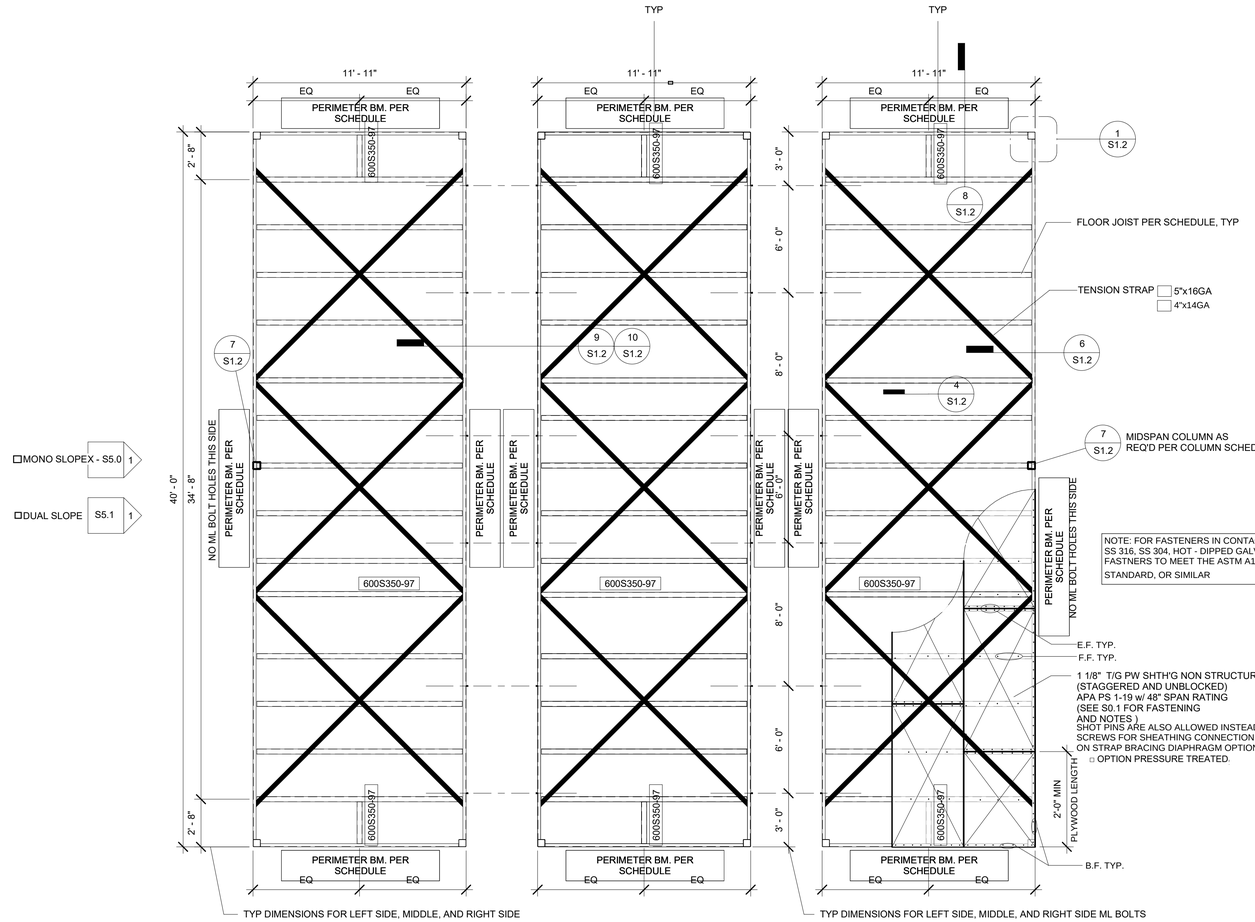
JA/RT

DATE

SHEET NO.

S1.0.1

SHEET OF



1 *1/4" = 1'-0"*
WD Shth'g Flr Framing Plan (50+15 PSF) CROSS-STRAP OPT.

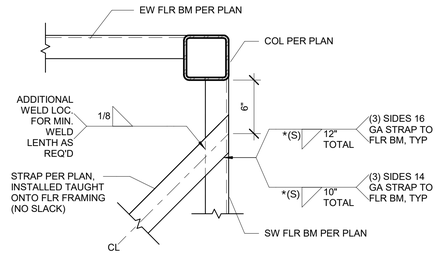
Floor Joist Schedule		
FLL	JOIST	SPACING
□ 50+15 PSF[1]	600S350-97	32" O.C.
□ 100 PSF[1]	600S350-97	24" O.C.
□ 150 PSF[2]	600S350-97	16" O.C.

FOOTNOTES:
1. APPLICABLE FOR OCCUPANCY E
2. APPLICABLE FOR OCCUPANCY E &B

Perimeter Floor Beam Schedule			
HT	No Plaster Walls	Plaster Walls	w/ Parapet, 18" max
□ 9'	C10x15.3	C10x15.3	C10x15.3
□ 10'	C10x15.3	C10x15.3	C10x15.3

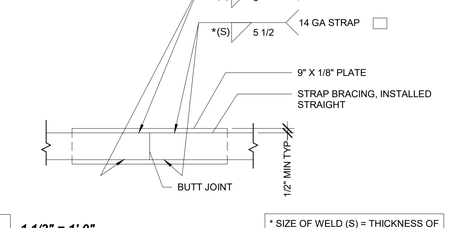
NOTE: SPLICE AT FLOOR BEAM PERMITTED PER 3/S1.2

Column Schedule			
HT	No Plaster Walls	Plaster Walls	w/ Parapet, 18" max
□ 9'	5x5x1/4	5x5x1/4	6x6X1/4
□ 10'	6x6x1/4	6x6x1/4	6x6X1/4
			3x3X3/16 mid-span column



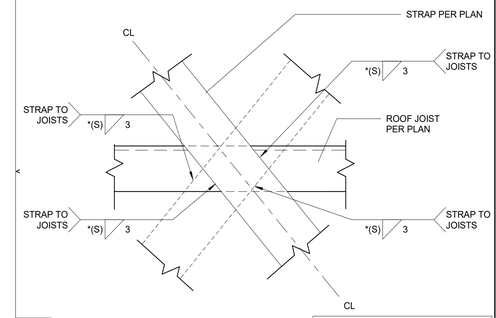
2 *1 1/2" = 1'-0"*
FLOOR BRACING STRAP @ ENDWALL

* SIZE OF WELD (S) = THICKNESS OF THINER MATERIAL



3 *1 1/2" = 1'-0"*
FLOOR STRAP BRACING @ SIDEWALL

* SIZE OF WELD (S) = THICKNESS OF THINER MATERIAL



4 *3" = 1'-0"*
STRAP TO JOIST CONNECTION

* SIZE OF WELD (S) = THICKNESS OF THINER MATERIAL

5 *1 1/2" = 1'-0"*
STRAP SPLICE DETAIL

* SIZE OF WELD (S) = THICKNESS OF THINER MATERIAL

NOTE: ALL PANEL EDGES SHLL BE ATTACHED TO FRAMING MEMBERS OR BLOCKING. WHERE USED AS BLOCKING, FLAT STRAPPING SHALL BE A MINIMUM THICKNESS OF 33MILS WITH A MINIMUM WIDTH OF 1.5 INCHES AND SHALL BE INSTALLED BELOW SHEATHING. FOR OTHER THAN STEEL SHEATHING, THE SCREWS SHALL BE INSTALLED THROUGH THE SHEATHING TO THE BLOCKING.

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ♦ CONSULTING ♦ PROJECT
11590 W. BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER MANNY D. FRANCISCO C-53380 03/31/24 CIVIL STRUCTURAL STATE OF CALIFORNIA
RST#22088
02/16/24

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CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

REVISIONS

#	Description	BY

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

EL DORADO 160# SNOW LOAD

SHEET TITLE

WD SHTH'G FLR FRAMING PLAN CROSS-STRAP OPT.
50 + 15 PSF
100 PSF
150 PSF

PROJECT NUMBER
22073

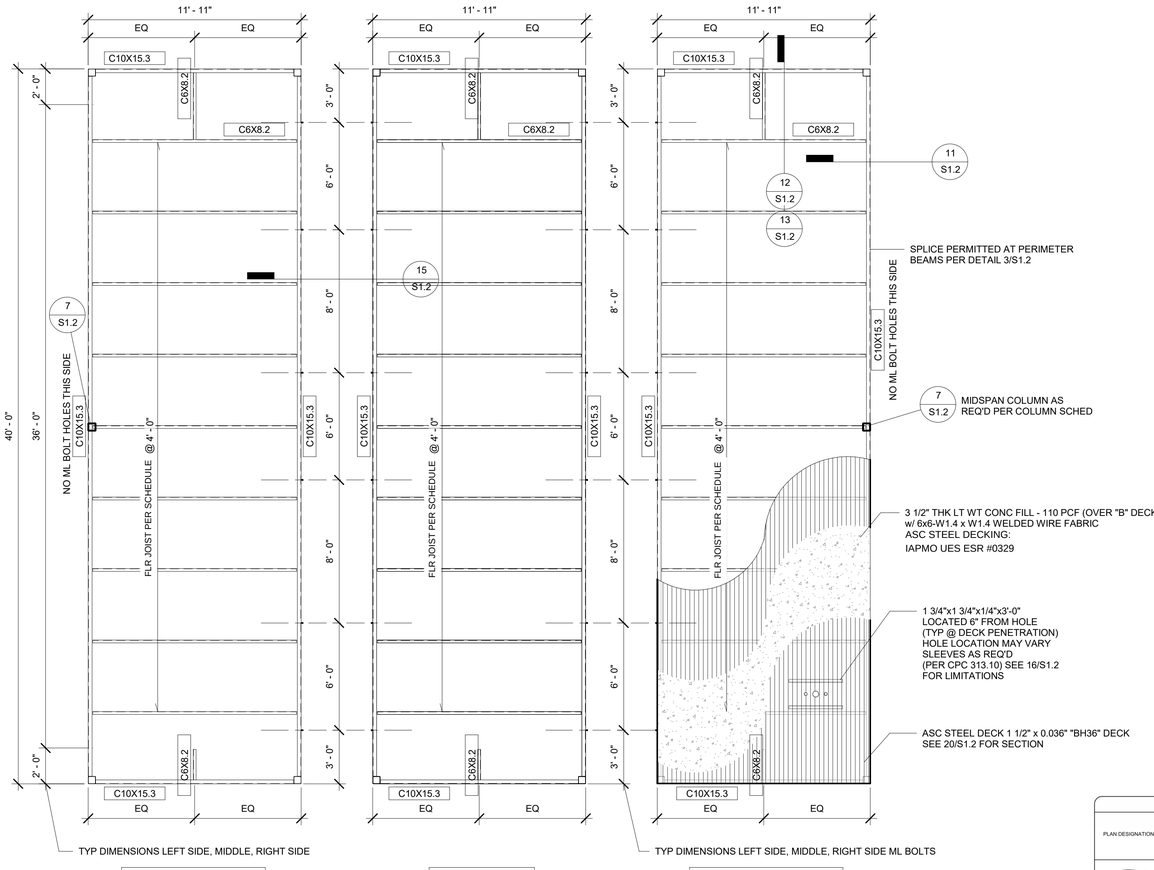
DRAWN BY
Author

CHECKED BY
Checker

DATE
06/07/2021

SHEET NO.
S1.0.4
SHEET OF SHEETS

6/2/2022 9:46:43 AM \\192.168.10.2\Clients\2022\22073 - Class Leasing, El Dorado Cty OE - S Lake Tahoe MS 160lb Snow load#Main Files\REVIT\RST#22073 - Class Leasing, PC 24x40 to 120x40 HS_Eldorado Cty OE - 160# Snow Load_MainFile_detached.rvt



LEFT SIDE MOD

MIDDLE MOD

RIGHT SIDE MOD

BH-36 METAL DECK PROPERTIES & PROFILE

PLAN DESIGNATION	DECK TYPE	MINIMUM EFFECTIVE PROPERTIES S_{eff}^+ IN³/FT	S_{eff}^- IN³/FT	I_{eff}^+ IN⁴/FT	I_{eff}^- IN⁴/FT	DECK PROFILE
	1-1/2"-18GA ASC BH-36 GALV DECK (36" WIDE)	0.311	0.329	0.287	0.313	6" 2½" 2½" 10" 3'-0" 1½"

⊕ = (4) 5/8Ø EFFECTIVE FUSION WELDS*
ALTERNATE: (4) #12 SDSTS
(11 & 14/S1.2 FOR ATTACHMENT @ PARALLEL SUPPORTS)
- 5/8Ø EFFECTIVE FUSION WELD + 1"Ø VISUAL FUSION WELD

NOTE:
ASC STEEL DECKING: IAPMO UES ER #0329

- SIDE LAP ATTACHMENT TO BE BUTTON PUNCHED @ 24" O.C. WHEN WELDED
- SIDE LAP ATTACHMENT TO BE #10 SDSTS @ 24" O.C. WHEN SCREWED

BH-36 METAL DECK PROPERTIES & PROFILE

NOTE: ALL PANEL EDGES SHLL BE ATTACHED TO FRAMING MEMBERS OR BLOCKING. WHERE USED AS BLOCKING, FLAT STRAPPING SHALL BE A MINIMUM THICKNESS OF 33MILS WITH A MINIMUM WIDTH OF 1.5 INCHES AND SHALL BE EITHER INSTALLED ON TOP OF OR BELOW SHEATHING. FOR OTHER THAN STEEL SHEATHING, THE SCREWS SHALL BE INSTALLED THROUGH THE SHEATHING TO THE BLOCKING.

Concrete Floor Joist Schedule		
FLL	JOIST	SPACING
□ 50+15 PSF	C6x8.2	4'-0" O.C.
□ 100 PSF	C6x8.2	3'-0" O.C.
□ 150 PSF	C6x8.2	2'-2" O.C.

Column Schedule			
HT	No Plaster Walls	Plaster Walls	w/ Parapet, 18" max
□ 9'	5x5X1/4	5x5X1/4	6x6X1/4
□ 10'	6x6X1/4	6x6X1/4	6x6X1/4
			3x3X3/16 mid-span column

1 ***1/4" = 1'-0"***
Conc Flr Framing Plan (50+15 PSF)

6/8/2021 1:52:25 AM C:\Users\User\Documents\RST#20132 - Class Leasing, PC 24x40 to 120x40 HS_detached_CESAR24D63.rvt

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
11590 W Bernardo Court, Suite 100
San Diego, CA 92127
www.rstavares.com

PROFESSIONAL STAMP

RST#22088

02/16/24

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Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
CONC FLR FRM'G PLAN
50 + 15 PSF
100 PSF
150 PSF

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
JA/RT

DATE

SHEET NO.
S1.1.1

SHEET OF

BH-36 METAL DECK PROPERTIES & PROFILE						
PLAN DESIGNATION	DECK TYPE	MINIMUM EFFECTIVE PROPERTIES				DECK PROFILE
		S_e* IN³/FT	S_e IN³/FT	I_e* IN⁴/FT	I_e IN⁴/FT	
	1-1/2"-18GA ASC BH-36 GALV DECK (36" WIDE)	0.311	0.329	0.287	0.313	6" 3" 3" 3'-0"

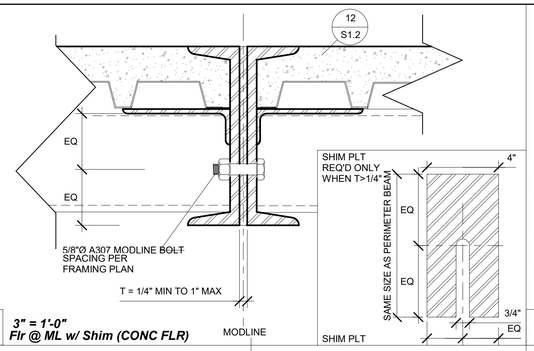
⊙ = (4) ½"Ø EFFECTIVE FUSION WELDS*
ALTERNATE: (4) #12 SDSTS
(11 & 14)- FOR ATTACHMENT @ PARALLEL SUPPORTS)

*½"Ø EFFECTIVE FUSION WELD = 1"Ø VISUAL FUSION WELD

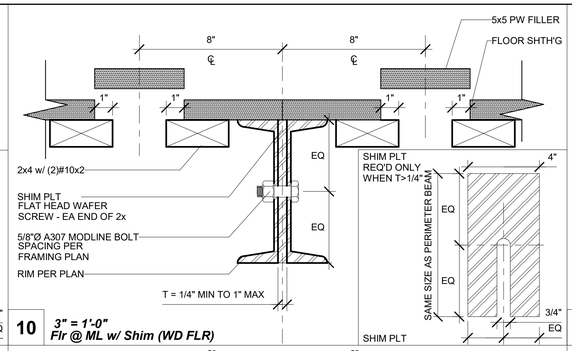
NOTE:
ASC STEEL DECKING: IAPMO UES ER #0329

- SIDE LAP ATTACHMENT TO BE BUTTON PUNCHED @ 24" O.C. WHEN WELDED
- SIDE LAP ATTACHMENT TO BE #10 SDSTS @ 24" O.C. WHEN SCREWED

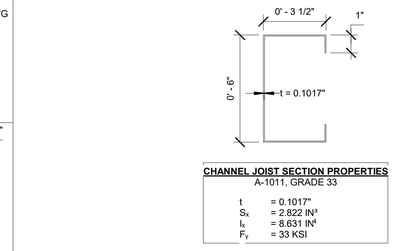
20 *1 1/2" = 1'-0"*
BH-36 Metal Deck Properties & Profile



15 *3" = 1'-0"*
Flr @ ML w/ Shim (CONC FLR)



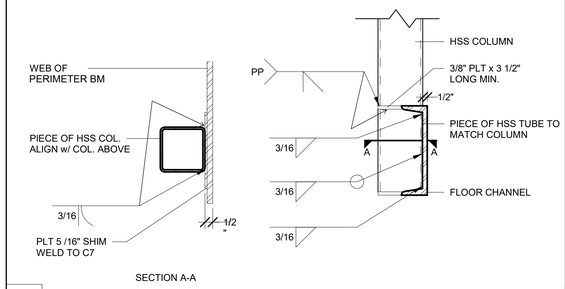
10 *3" = 1'-0"*
Flr @ ML w/ Shim (WD FLR)



CHANNEL JOIST SECTION PROPERTIES
A-1011, GRADE 33

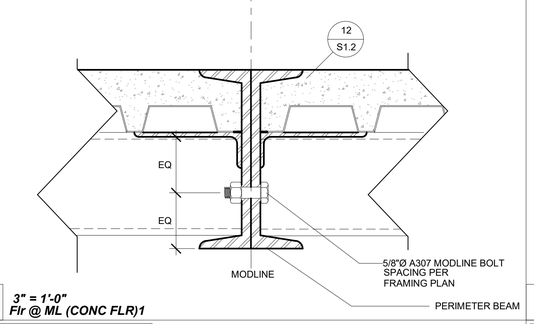
t	= 0.1017"
S_x	= 2.822 IN³
I_x	= 8.631 IN⁴
F_y	= 33 KSI

5 *3" = 1'-0"*
Channel Joist Section Properties (600S350-97)

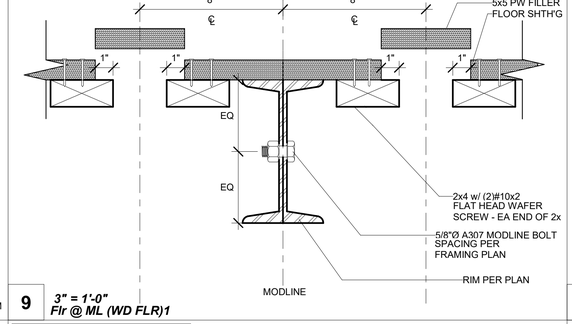


SECTION A-A

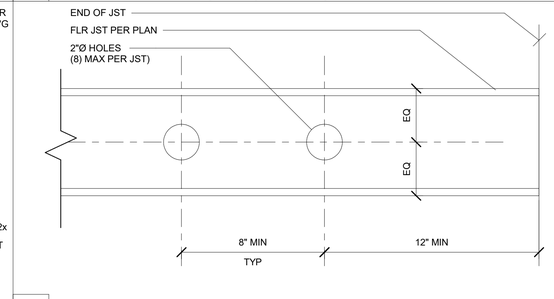
7 *1 1/2" = 1'-0"*
Mid-Span Column Connection



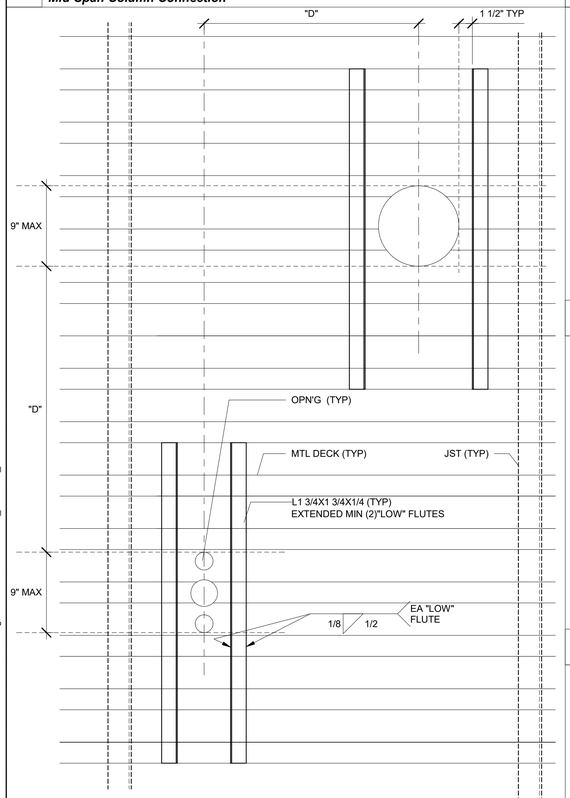
14 *3" = 1'-0"*
Flr @ ML (CONC FLR)1



9 *3" = 1'-0"*
Flr @ ML (WD FLR)1



4 *3" = 1'-0"*
Elevation - Allowable Jst Holes



1. THIS DETAIL IS FOR USE ONLY FOR OPENINGS OR OPENING GROUPS THAT ARE 0'-9" OR SMALLER.

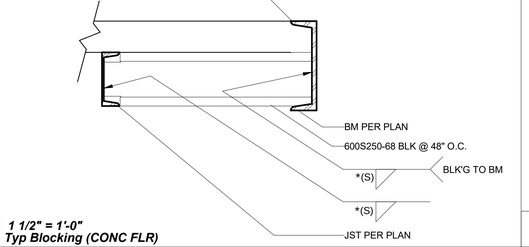
2. OPENINGS 2"Ø OR LESS NOT OCCURING IN THE LOWER FLUTE DO NOT REQUIRE REINFORCING AND MAY BE CORED THRU THE CONCRETE.

3. IF "D" IS LESS THAN 32" THEN THE GROUP OF OPENINGS MUST BE BLOCKED OUT WITH ADDITIONAL FRAMING.

4. PRIOR TO CONCRETE POUR, BLOCK OUT THE OPENINGS. AFTER THE CONCRETE HAS BEEN CURED THE DECK MAY BE CUT.

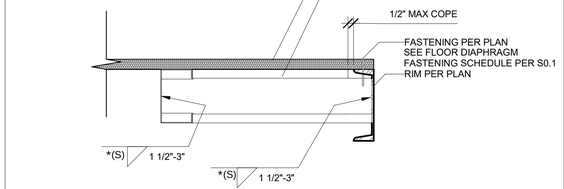
16 *1 1/2" = 1'-0"*
Typ Deck Penetrations (CONC FLR)

* SIZE OF WELD (S) = THICKNESS OF THINER MATERIAL

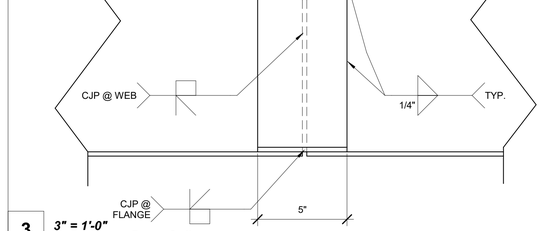


13 *1 1/2" = 1'-0"*
Typ Blocking (CONC FLR)

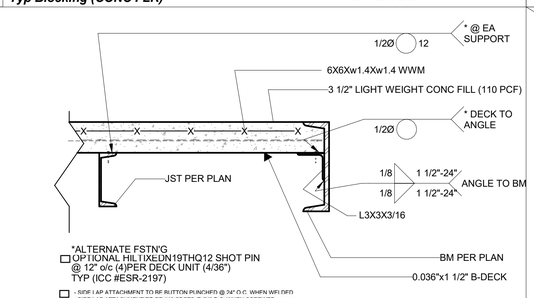
* SIZE OF WELD (S) = THICKNESS OF THINER MATERIAL



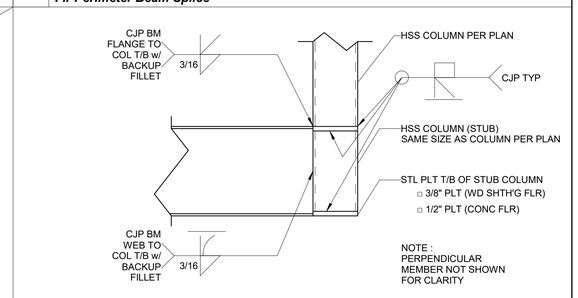
8 *1 1/2" = 1'-0"*
Typ Blk'g Connection @ Rim (WD FLR)



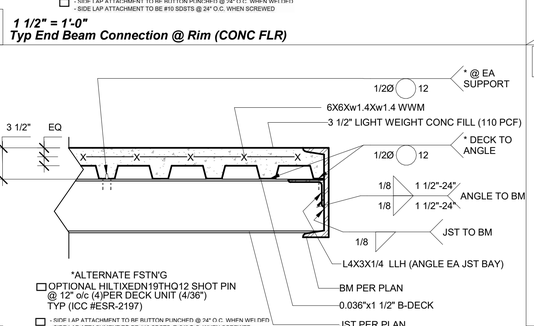
3 *3" = 1'-0"*
Flr Perimeter Beam Splice



12 *1 1/2" = 1'-0"*
Typ End Beam Connection @ Rim (CONC FLR)

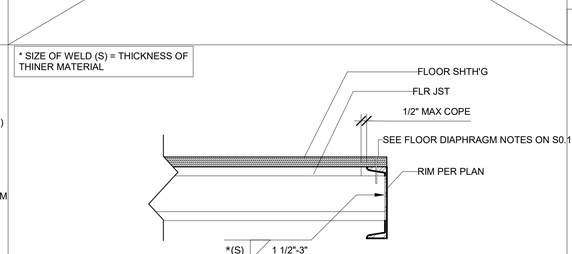


2 *1 1/2" = 1'-0"*
Typ Flr Bm to Column Connection

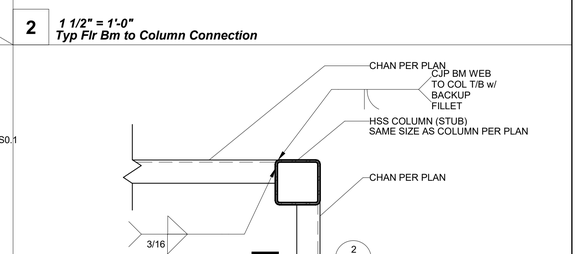


11 *1 1/2" = 1'-0"*
Typ Side Beam Connection @ Rim (CONC FLR)

* SIZE OF WELD (S) = THICKNESS OF THINER MATERIAL



6 *1 1/2" = 1'-0"*
Typ Joist Connection @ Rim (WD FLR)



1 *1 1/2" = 1'-0"*
Typ Corner Connection

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6/8/2021 1:52:34 AM

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ♦ CONSULTING ♦ PROJECT MGT
11590 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRANCISCO
No. C-53380
03/31/24
CIVIL
STRUCTURAL
STATE OF CALIFORNIA
RST#22088
02/16/24

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CLIENT

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1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
STRUCTURAL DETAILS (FLOOR)

PROJECT NUMBER
22088

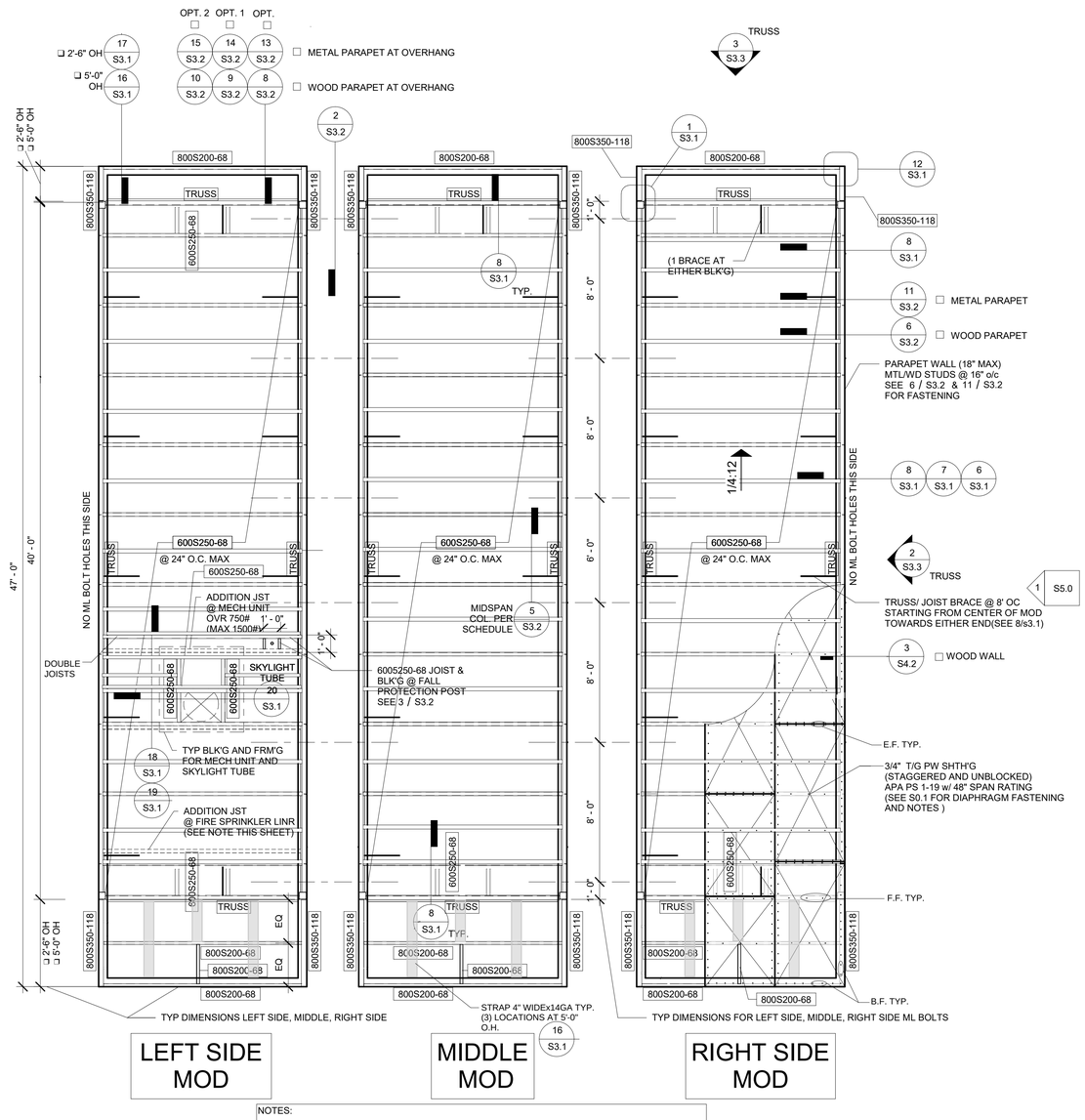
DRAWN BY
rMc/SC

CHECKED BY
JA/RT

DATE

SHEET NO.
S1.2

SHEET OF



NOTES:

FIRE SPRINKLER
ADDITIONAL ROOF JOIST FOR FIRE SPRINKLER LINE AS REQ'D
LOCATION OF FIRE SPRINKLER AND ADDITIONAL JOIST TO BE DETERMINED

PV REQUIREMENTS:

1.7 REQUIRED PHOTOVOLTAIC (PV) SYSTEMS

WHEN A PV SYSTEM IS REQUIRED BY THE CALIFORNIA ENERGY CODE FOR A PC BUILDING CONFIGURATION, THE PV SYSTEM DESIGN SHALL BE IN ACCORDANCE WITH IR 16-8: SOLAR PHOTOVOLTAIC AND THERMAL SYSTEMS REVIEW AND APPROVAL REQUIREMENTS. THE PC DESIGN SHALL SHOW THAT THE STRUCTURE CAN SUPPORT THE REQUIRED SYSTEM LOADS WHEN THE BUILDING IS SUPPORTING THE PV SYSTEM. IF THE PV SYSTEM IS REQUIRED IT WILL BE SUBMITTED WITH THE SITE SPECIFIC APPLICATION

8.3 REQUIRED PHOTOVOLTAIC (PV) SYSTEMS ENERGY REVIEW

WHEN A PV SYSTEM IS REQUIRED PER THE CALIFORNIA ENERGY CODE FOR A PC CONFIGURATION, THE SYSTEM POWER REQUIREMENTS SHALLL BE CLEARLY DELINEATED ON THE PC PLANS IN THE DESIGN INFORMATION SECTION FOR THE PC. SEE SECTION 1.7 ABOVE FOR DESIGN AND SUBMITTAL REQUIREMENTS OF THE PV SYSTEM.

1 ***1/4" = 1'-0"***
Mono Roof Framing Plan

6/8/2021 1:52:37 AM C:\Users\User\Documents\RST#20132 - Class Leasing, PC 24x40 to 120x40 HS_detached_CESAR24D63.rvt

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
11590 W Bernardo Court, Suite 100
San Diego, CA 92127
www.rstavares.com

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER MANNY D. FRANCO No. C-53380 03/31/24 CIVIL STRUCTURAL STATE OF CALIFORNIA
RST#22088
02/16/24

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CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
MONO SLOPE ROOF FRM'G PLAN

PROJECT NUMBER
22088

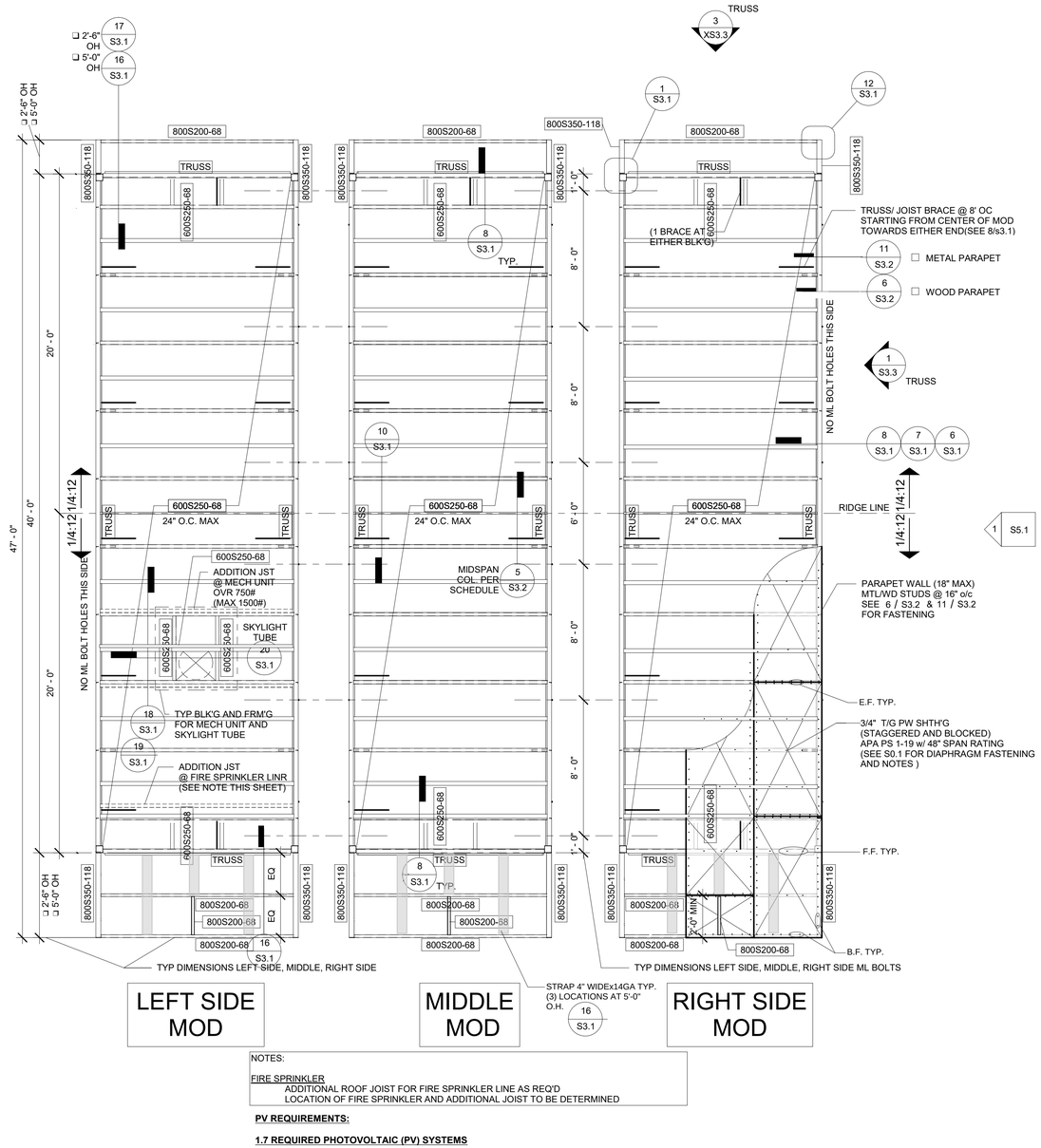
DRAWN BY
rMc/SC

CHECKED BY
JA/RT

DATE

SHEET NO.
S3.0.1

SHEET OF



LEFT SIDE MOD

MIDDLE MOD

RIGHT SIDE MOD

NOTES:

FIRE SPRINKLER
ADDITIONAL ROOF JOIST FOR FIRE SPRINKLER LINE AS REQ'D
LOCATION OF FIRE SPRINKLER AND ADDITIONAL JOIST TO BE DETERMINED

PV REQUIREMENTS:

1.7 REQUIRED PHOTOVOLTAIC (PV) SYSTEMS

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1 *1/4" = 1'-0"*
Dual Roof Framing Plan

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
11590 W Bernardo Court, Suite 100
San Diego, CA 92127
www.rstavares.com

PROFESSIONAL STAMP

RECORDED PROFESSIONAL ENGINEER
MANNY D. FRANCO
C-3380
03/31/24
CIVIL
STRUCTURAL
STATE OF CALIFORNIA

02/16/24

RST#22088

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CLIENT

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1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

DUAL SLOPE ROOF FRM'G PLAN

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

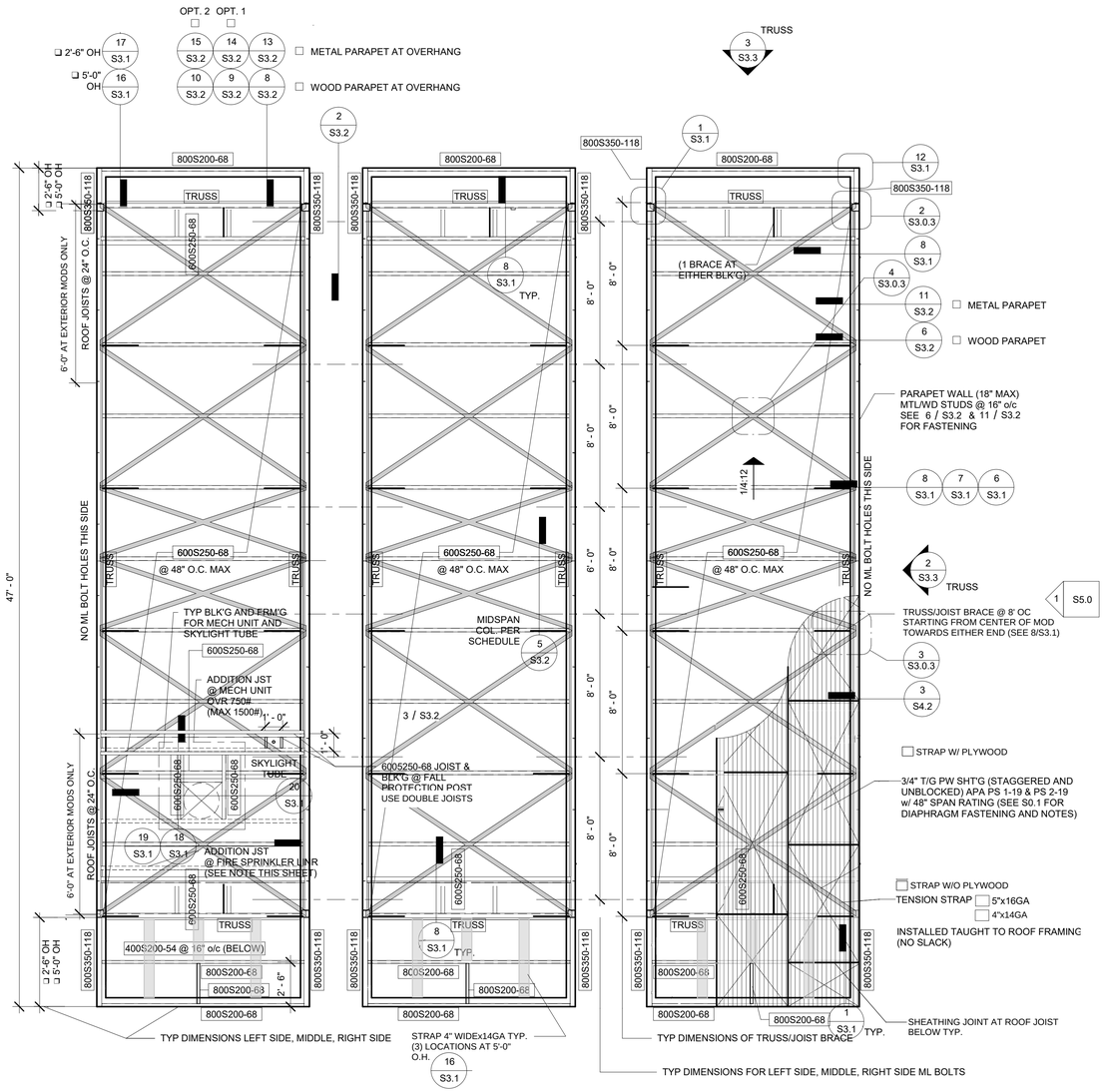
CHECKED BY
JA/RT

DATE

SHEET NO.
S3.0.2

SHEET OF

6/8/2021 1:52:39 AM C:\Users\User\Documents\RST#20132 - Class Leasing, PC 24x40 to 120x40 HS_detached_CESAR24D83.rvt



1 *1/4" = 1'-0"*
Mono Roof Framing Plan

NOTES:

FIRE SPRINKLER
ADDITIONAL ROOF JOIST FOR FIRE SPRINKLER LINE AS REQ'D
LOCATION OF FIRE SPRINKLER AND ADDITIONAL JOIST TO BE DETERMINED

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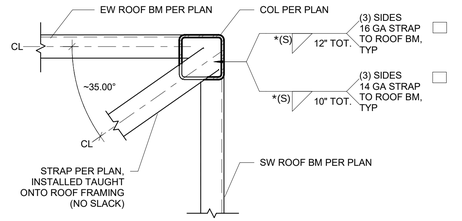
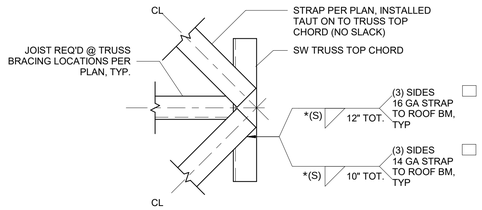


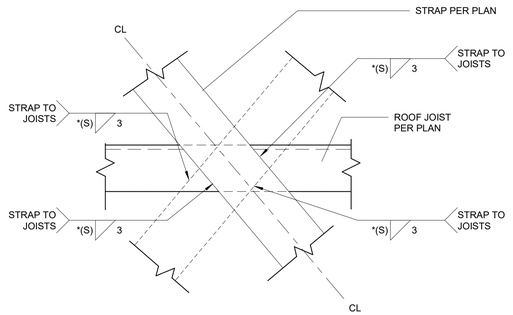
2 *1 1/2" = 1'-0"*
ROOF BRACING STRAP @ ENDWALL

* SIZE OF WELD (S) = THICKNESS OF THINER MATERIAL



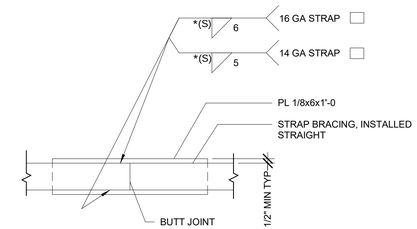
3 *1 1/2" = 1'-0"*
ROOF STRAP BRACING @ SIDEWALL

* SIZE OF WELD (S) = THICKNESS OF THINER MATERIAL



4 *3" = 1'-0"*
STRAP TO JOIST CONNECTION (ROOF)

* SIZE OF WELD (S) = THICKNESS OF THINER MATERIAL



5 *1 1/2" = 1'-0"*
STRAP SPLICE DETAIL (ROOF)

* SIZE OF WELD (S) = THICKNESS OF THINER MATERIAL

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
11590 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
JIMMY D. FRANKLIN
No. S-3380
03/31/24
STRUCTURAL
STATE OF CALIFORNIA
RST#22088
02/16/24

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CLIENT

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1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) ALTERNATE DOCUMENT

CODE: 2019 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

MONO SLOPE ROOF FRM'G PLAN CROSS-STRAP OPT.

PROJECT NUMBER 22088

DRAWN BY MJM

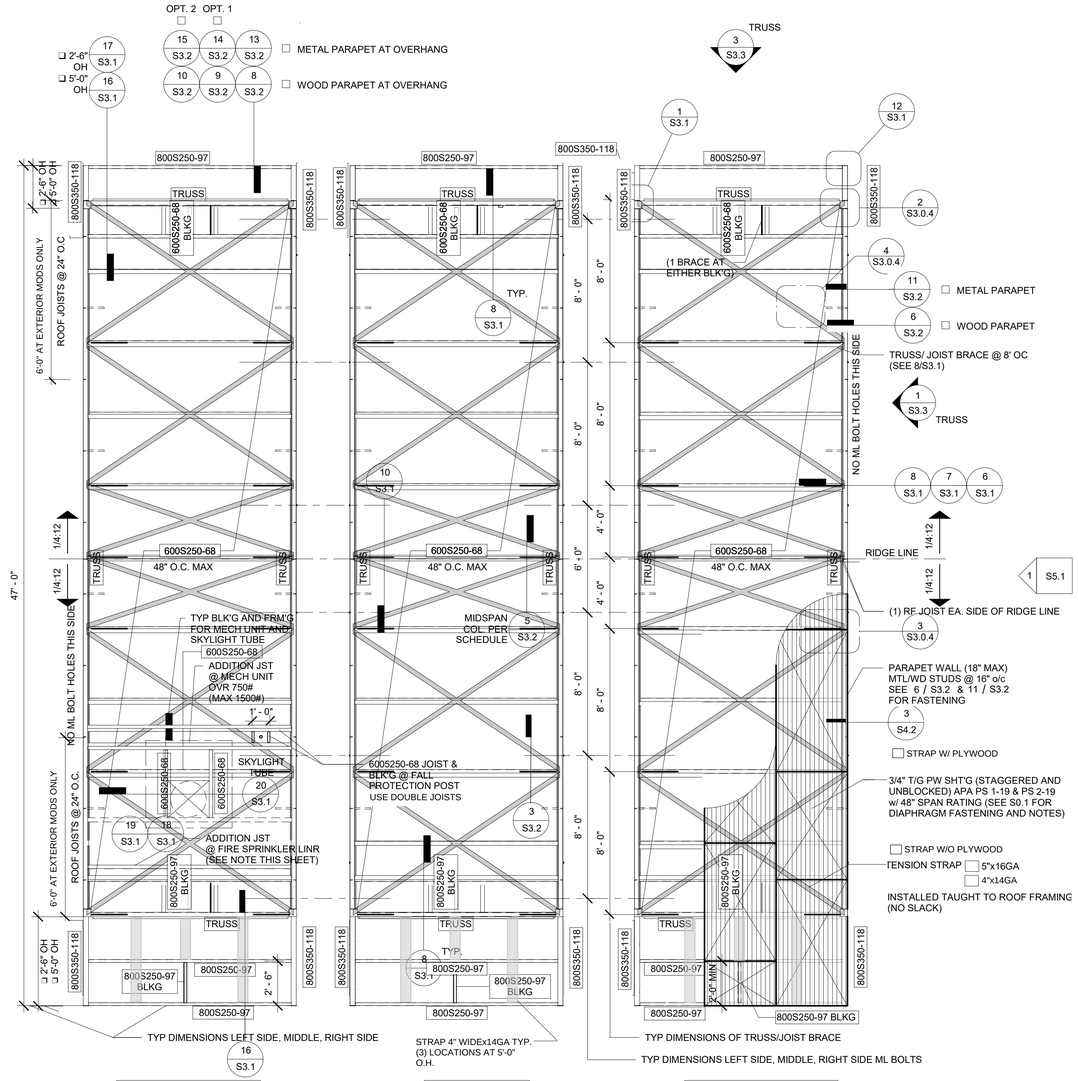
CHECKED BY RH/rMc

DATE 06/07/2021

SHEET NO. S3.0.3

SHEET OF

10/25/2022 3:46:46 PM M:\2022\22088 - Class Leasing, 24x40 to 120x40 High Seismic 2022 PC\REVIT\source file detached 22095 for S3.0.3 and S3.0.4\source file detached 22095 for S3.0.3 and S3.0.4.rvt



NOTES:

FOR CROSS STRAP DETAILS SEE 2 / ALT-S1 3 / ALT-S1 4 / ALT-S1& 5 / ALT-S1

FIRE SPRINKLER
ADDITIONAL ROOF JOIST FOR FIRE SPRINKLER LINE AS REQ'D
LOCATION OF FIRE SPRINKLER AND ADDITIONAL JOIST TO BE DETERMINED

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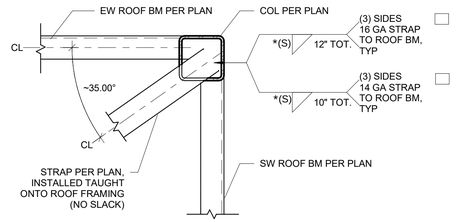
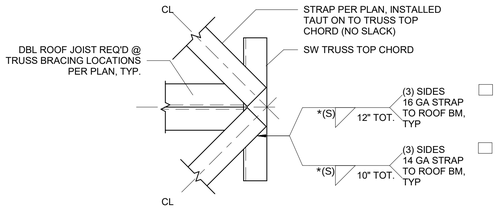
1 *1/4" = 1'-0"*
Dual Roof Framing Plan CROSS-STRAP OPT.



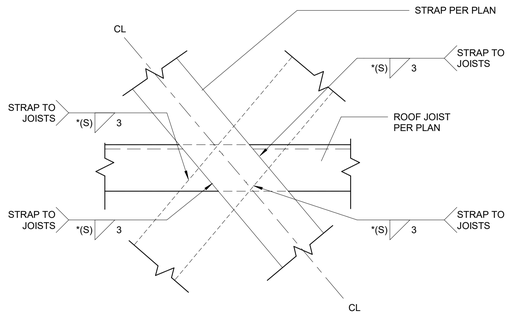
2 *1 1/2" = 1'-0"*
ROOF BRACING STRAP @ ENDWALL

* SIZE OF WELD (S) = THICKNESS OF THINER MATERIAL



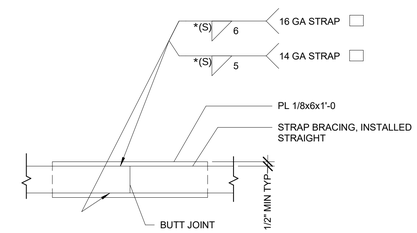
3 *1 1/2" = 1'-0"*
ROOF STRAP BRACING @ SIDEWALL

* SIZE OF WELL (S) = THICKNESS OF THINER MATERIAL



4 *3" = 1'-0"*
STRAP TO JOIST CONNECTION (ROOF)

* SIZE OF WELD (S) = THICKNESS OF THINER MATERIAL



5 *1 1/2" = 1'-0"*
STRAP SPLICE DETAIL (ROOF)

* SIZE OF WELD (S) = THICKNESS OF THINER MATERIAL

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
11590 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

02/16/24

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CLIENT

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1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) ALTERNATE DOCUMENT

CODE: 2019 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

DUAL SLOPE ROOF FRM'G PLAN CROSS-STRAP OPT.

PROJECT NUMBER 22088

DRAWN BY MJM

CHECKED BY RH\rMc

DATE 06/07/2021

SHEET NO. S3.0.4

SHEET OF

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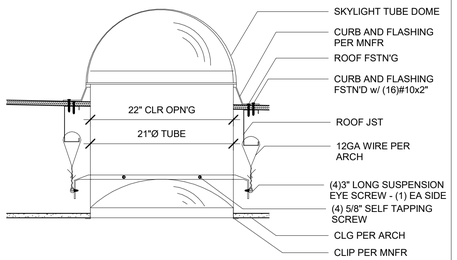
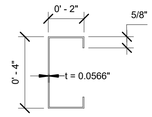


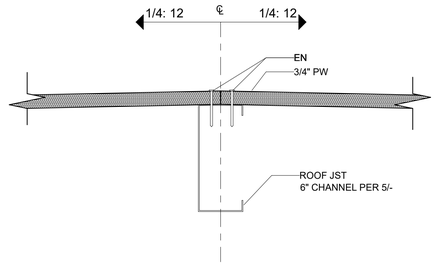
20 *1" = 1'-0"*
SKYLIGHT TUBE



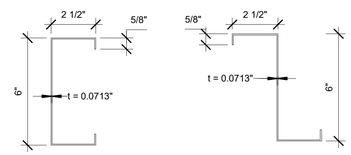
OVERHANG CHANNEL SECTION PROPERTIES
400S200-54
A-1003, GRADE 33, TYPE H

t	= 0.0566"
S_x	= 0.623 IN^3
I_x	= 1.292 IN^4
F_y	= 33 KSI

15 *3" = 1'-0"*
Soffit Channel Section Properties



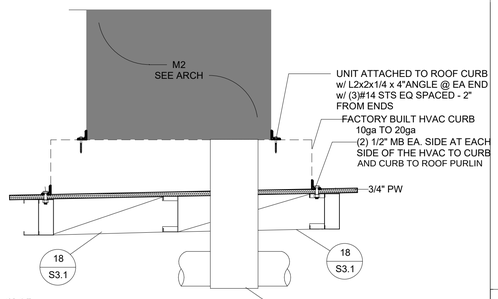
10 *3" = 1'-0"*
Roof @ Ridge



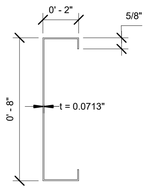
CHANNEL JOIST SECTION PROPERTIES
600S250-68 OR Z6X2.5X5/8-14GA
A-1003, GRADE 33, TYPE H

t	= 0.0713"
S_x	= 1.508 IN^3
I_x	= 4.727 IN^4
F_y	= 33 KSI

5 *3" = 1'-0"*
Roof Channel Joist Section Properites



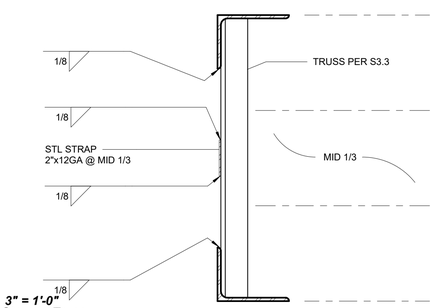
19 *1" = 1'-0"*
HVAC



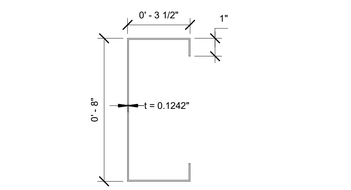
OVERHANG CHANNEL SECTION PROPERTIES
800S200-68
A-1003, GRADE 33, TYPE H

t	= 0.0713"
S_x	= 2.035 IN^3
I_x	= 8.140 IN^4
F_y	= 33 KSI

14 *3" = 1'-0"*
Fascia Channel Section Properties



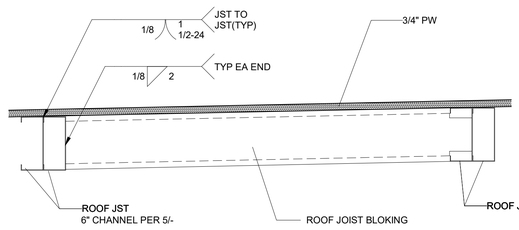
9 *3" = 1'-0"*
Strap to Truss



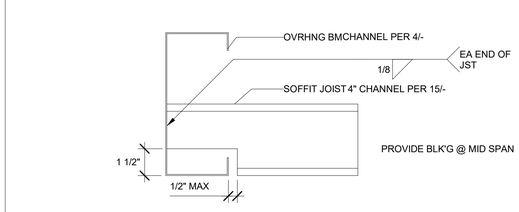
OVERHANG CHANNEL SECTION PROPERTIES
800S350-118
A-1003, GRADE 33, TYPE H

t	= 0.1242"
S_x	= 5.010 IN^3
I_x	= 20.041 IN
F_y	= 33 KSI

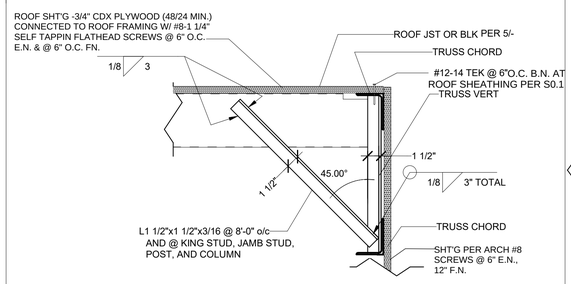
4 *3" = 1'-0"*
Overhang Beam Section Properites



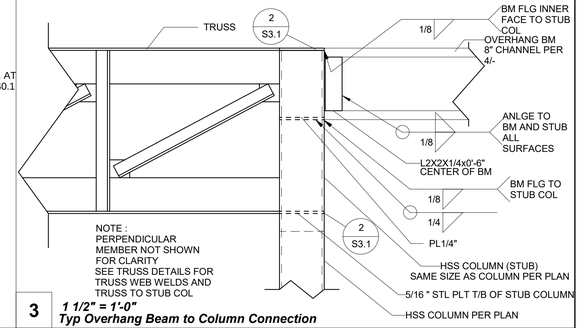
18 *1 1/2" = 1'-0"*
HVAC Frmg



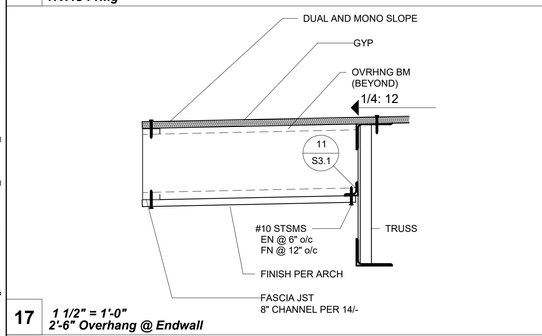
13 *3" = 1'-0"*
Typ Soffit Joist Connection



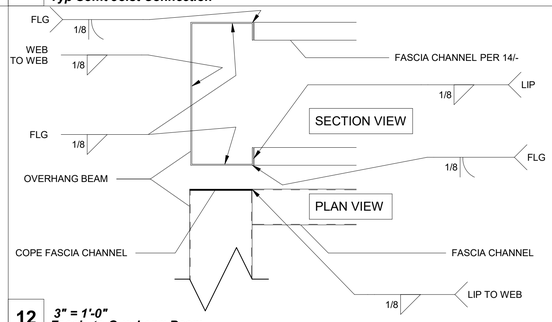
8 *1 1/2" = 1'-0"*
Typ Roof Jst Bracing



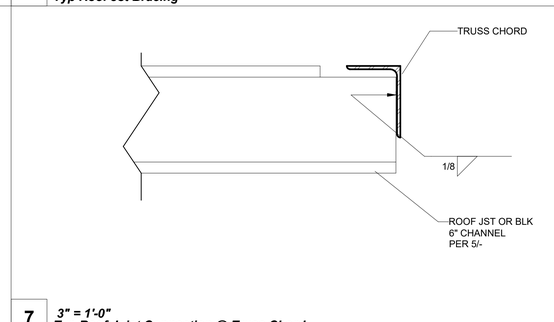
3 *1 1/2" = 1'-0"*
Typ Overhang Beam to Column Connection



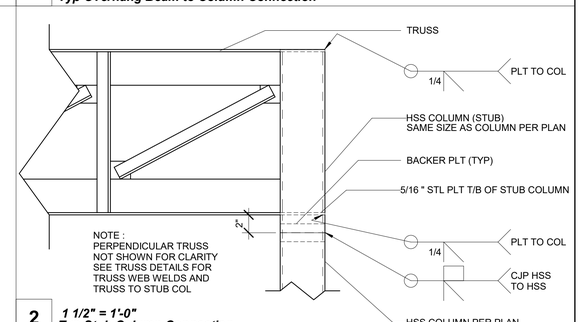
17 *1 1/2" = 1'-0"*
2'-6" Overhang @ Endwall



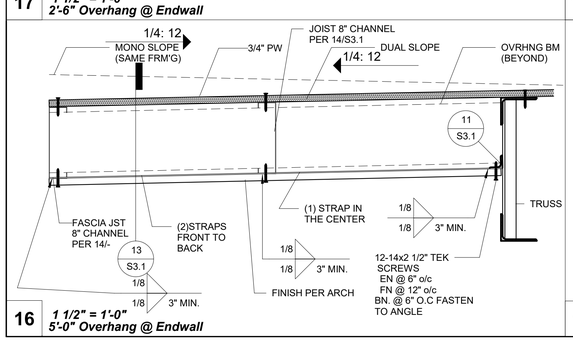
12 *3" = 1'-0"*
Fascia to Overhang Beam



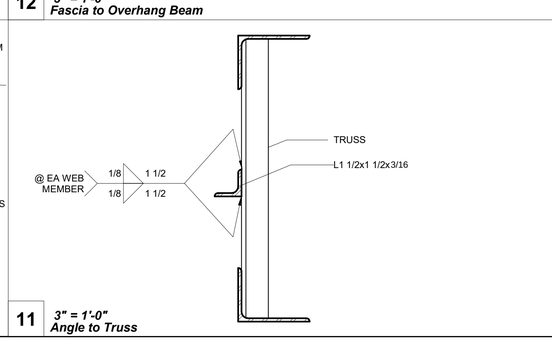
7 *3" = 1'-0"*
Typ Roof Joist Connection @ Truss Chord



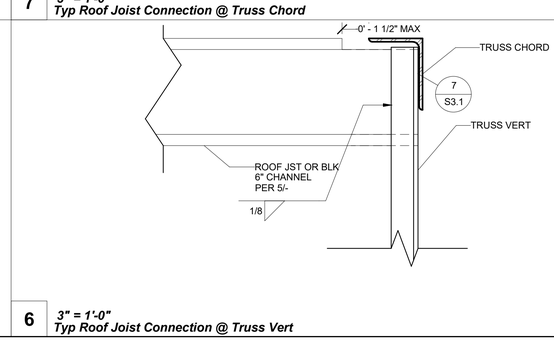
2 *1 1/2" = 1'-0"*
Typ Stub Column Connection



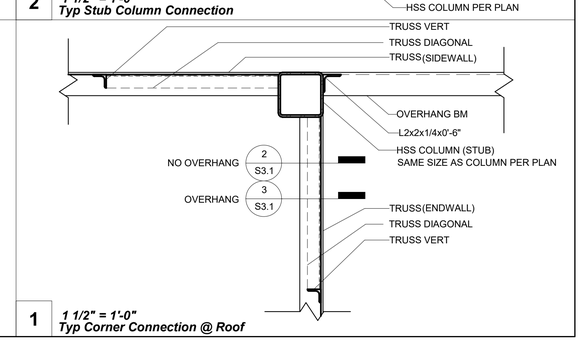
16 *1 1/2" = 1'-0"*
5'-0" Overhang @ Endwall



11 *3" = 1'-0"*
Angle to Truss



6 *3" = 1'-0"*
Typ Roof Joist Connection @ Truss Vert



1 *1 1/2" = 1'-0"*
Typ Corner Connection @ Roof

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
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PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRANCISCO
No. 23380
03/31/24
CIVIL
STRUCTURAL
STATE OF CALIFORNIA
RST#22088
02/16/24

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CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
STRUCTURAL DETAILS (ROOF)

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
JA/RT

DATE

SHEET NO.
S3.1
SHEET OF

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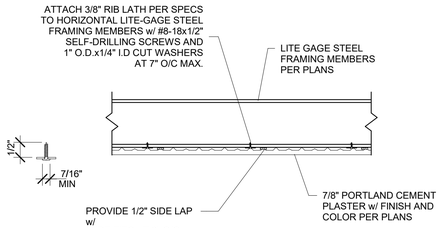
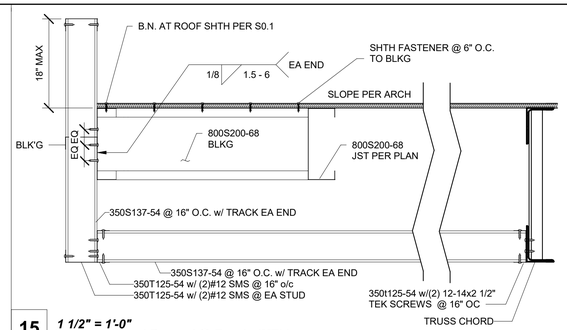
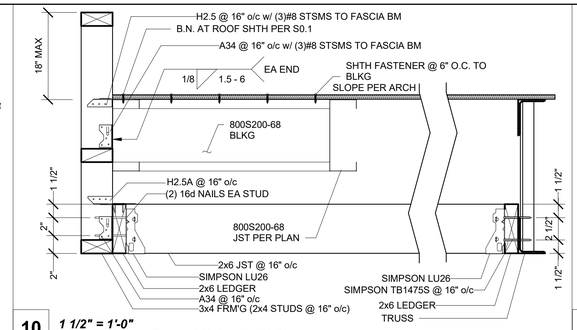


* NOT TO SCALE

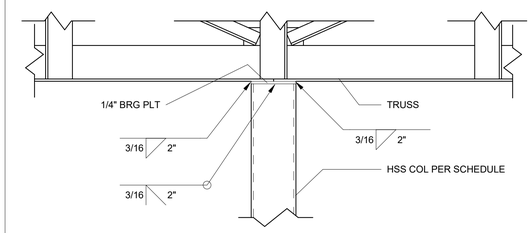
1 *1" = 1'-0"*
Rib Lath Attachment to STL. Joists



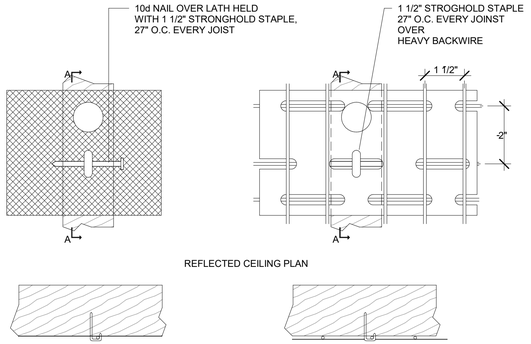
15 *1 1/2" = 1'-0"*
Section - Offset Parapet @ Fascia (MTL)



10 *1 1/2" = 1'-0"*
Section - Offset Parapet @ Fascia (WD)

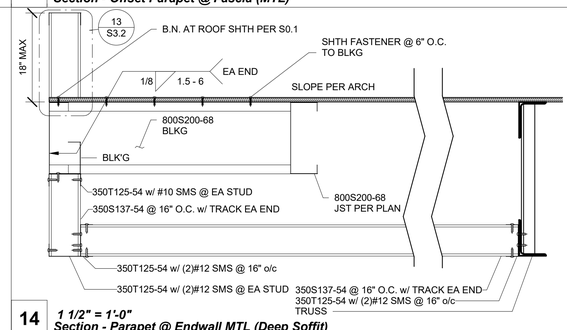


5 *1 1/2" = 1'-0"*
Midspan Col Conn @ Truss

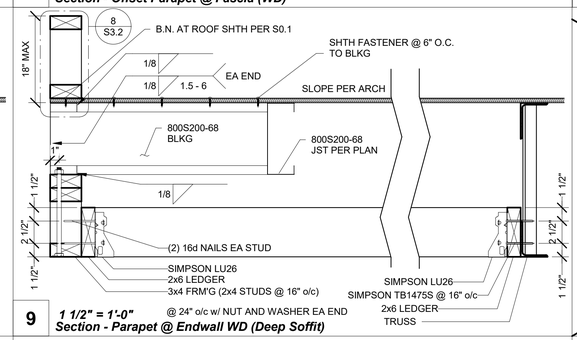


* NOT TO SCALE

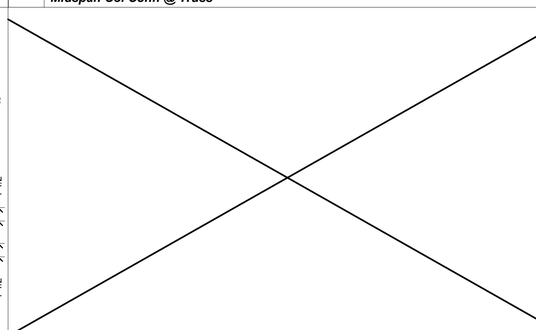
17 *1" = 1'-0"*
Att Metal Lath or Paper-Backed Wire Fabric To Wood-Framed Horizontal Surfaces

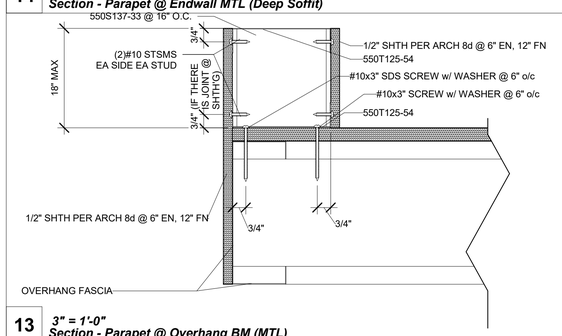


14 *1 1/2" = 1'-0"*
Section - Parapet @ Endwall MTL (Deep Soffit)

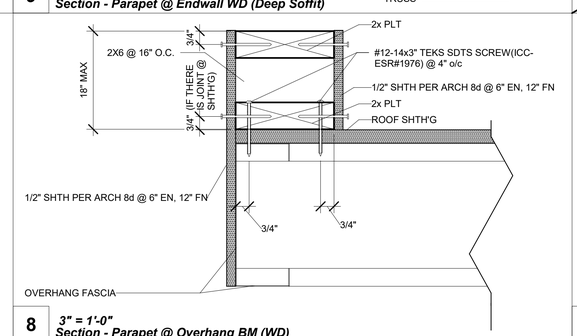


9 *1 1/2" = 1'-0"*
Section - Parapet @ Endwall WD (Deep Soffit)

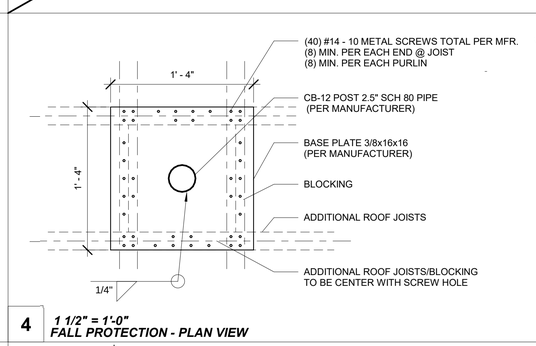




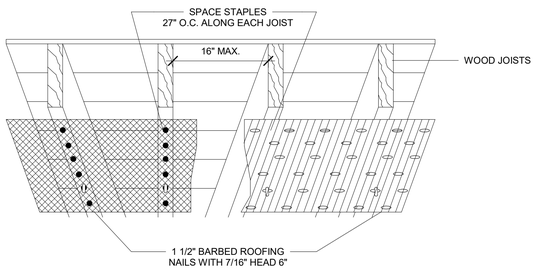
13 *3" = 1'-0"*
Section - Parapet @ Overhang BM (MTL)



8 *3" = 1'-0"*
Section - Parapet @ Overhang BM (WD)



4 *1 1/2" = 1'-0"*
FALL PROTECTION - PLAN VIEW

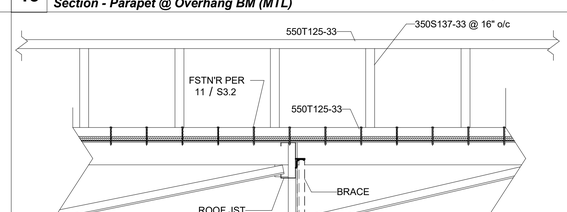


DETAIL SHOWS ASSEMBLE FOR ADDITIONAL SUPPORT THROUGH USE OF STRONGHOLD EARTHQUAKE STAPLES, IN BUILDINGS LOCATED IN AREAS SUBJECT TO EARTHQUAKE OR OTHER DISTURBANCES

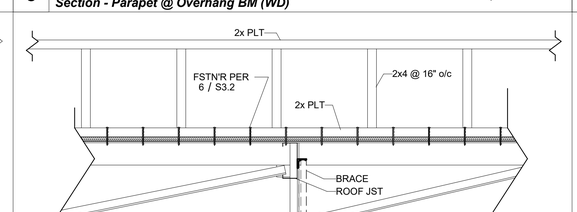
1 1/2" ROOFING NAIL (GALVANIZED) (BARBED) I I GAGE, 7/16" HEAD	1 1/2" 5/8" EATHQUAKE STAPLE 9 GAGE (ZINC PLATED)

* NOT TO SCALE

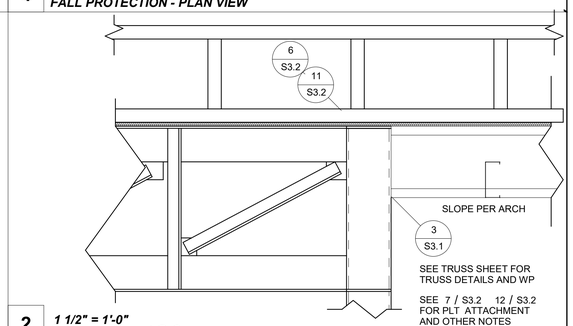
16 *1" = 1'-0"*
Attaching Metal Lath/Paper-Backed Wire Fabric To Wood-Framed Horizontal Surfaces



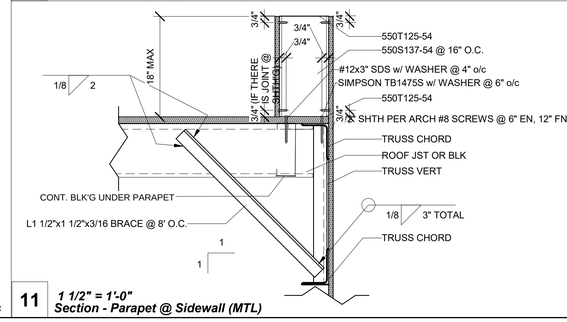
12 *1" = 1'-0"*
Elevation - Parapet @ Sidewall (MTL)



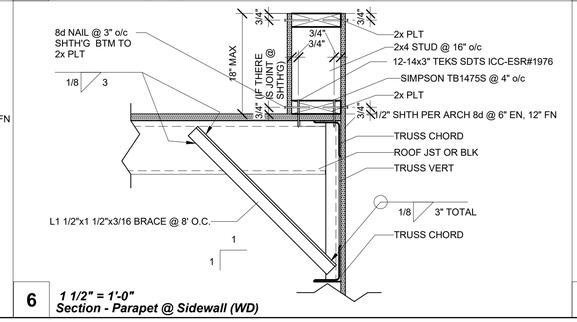
7 *1" = 1'-0"*
Elevation - Parapet @ Sidewall (WD)



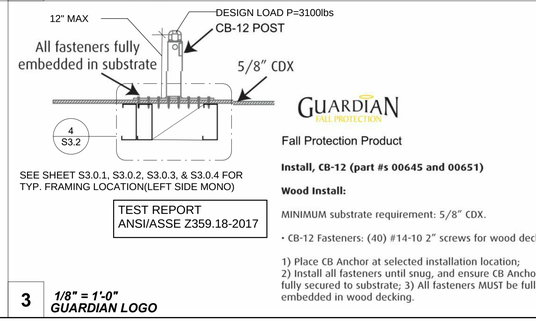
2 *1 1/2" = 1'-0"*
Section - Parapet @ Corner



11 *1 1/2" = 1'-0"*
Section - Parapet @ Sidewall (MTL)



6 *1 1/2" = 1'-0"*
Section - Parapet @ Sidewall (WD)



GUARDIAN FALL PROTECTION

Fall Protection Product

Install, CB-12 (part #s 00645 and 00651)

Wood Install:

MINIMUM substrate requirement: 5/8" CDX.

• CB-12 Fasteners: (40) #14-10 2" screws for wood decking.

1) Place CB Anchor at selected installation location;
2) Install all fasteners until snug, and ensure CB Anchor is fully secured to substrate; 3) All fasteners MUST be fully embedded in wood decking.

3 *1/8" = 1'-0"*
GUARDIAN LOGO

PROJECT SPECIFIC STATE AGENCY APPROVAL

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11590 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
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PROFESSIONAL STAMP

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MANNY D. FRANCO
C-33380
03/31/24
CIVIL
STRUCTURAL
STATE OF CALIFORNIA
RST#22088
02/16/24

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CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

ROOF DETAILS (SOFFIT/PARAPET)

PROJECT NUMBER 22088

DRAWN BY rMc/SC

CHECKED BY JA/RT

DATE

SHEET NO. S3.2

SHEET OF

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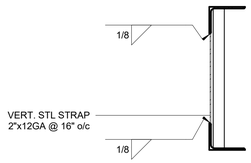
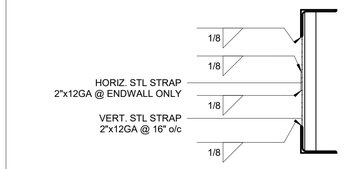
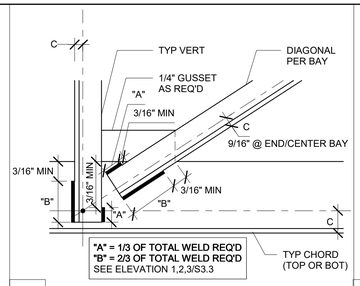
TABLE A-SECTION CENTROID	
SECTION	CENTROID C
L4X3 (LLV)	1 1/4"
L4X3 (LLH)	3/4"
L2X2X3/16	9/16"
L1.5X1.5X3/16	7/16"

NOTE: SEE DETAIL 8 / S3.3

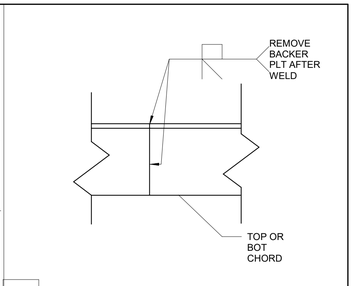
12 *1/2" = 1'-0"*
TABLE A - SECTION CENTROID



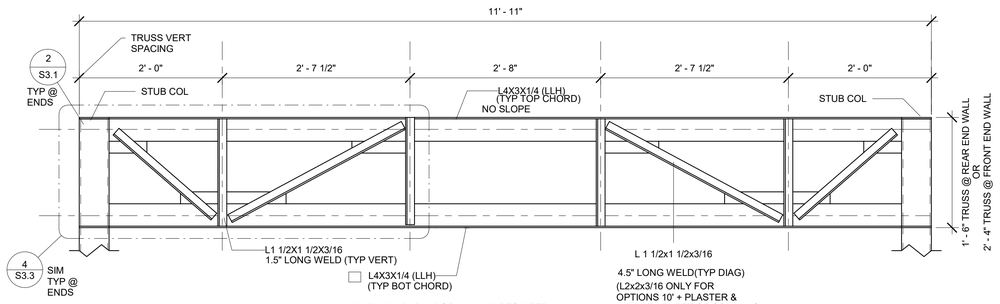




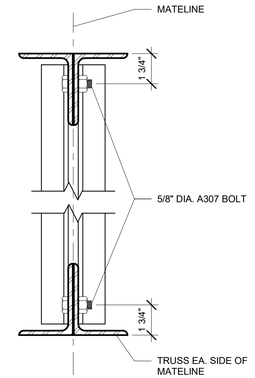
8 *3" = 1'-0"*
Typ Fillet Weld Lengths



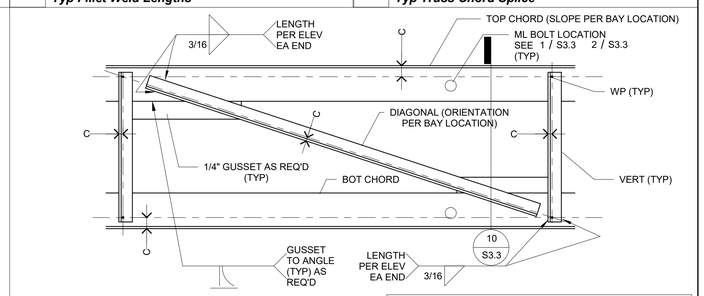
9 *3" = 1'-0"*
Typ Truss Chord Splice



3 *1" = 1'-0"*
End Wall Truss

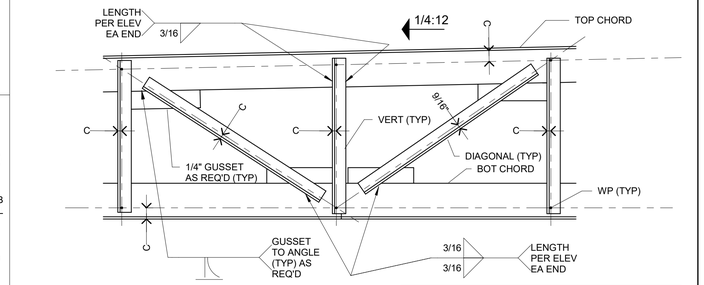


10 *3" = 1'-0"*
TRUSS CONN. @ MATELINE



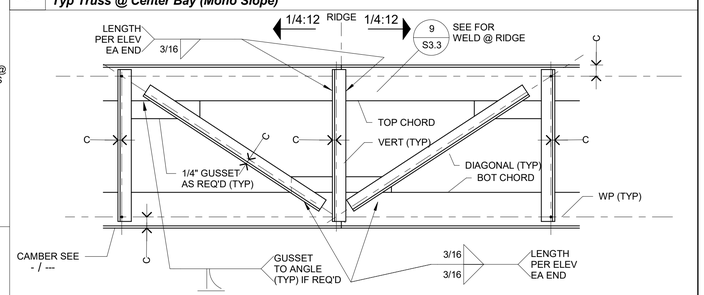
NOTE:
SEE 8 / S3.3 FOR ALL FILLET WELD LENGTH DISTRIBUTION

7 *1 1/2" = 1'-0"*
Typ Truss Bay



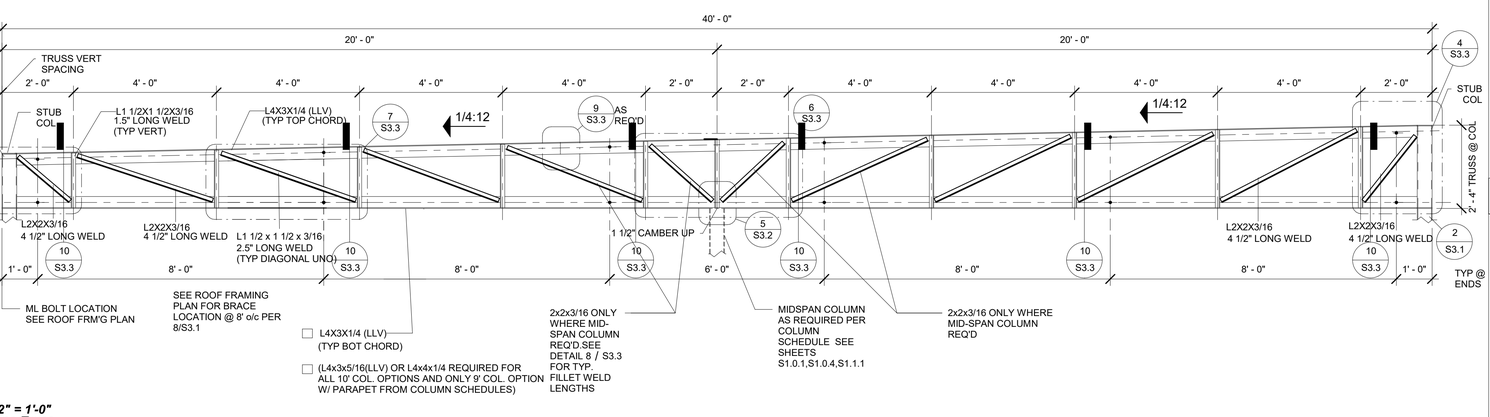
NOTE:
SEE 8 / S3.3 FOR ALL FILLET WELD LENGTH DISTRIBUTION

6 *1 1/2" = 1'-0"*
Typ Truss @ Center Bay (Mono Slope)

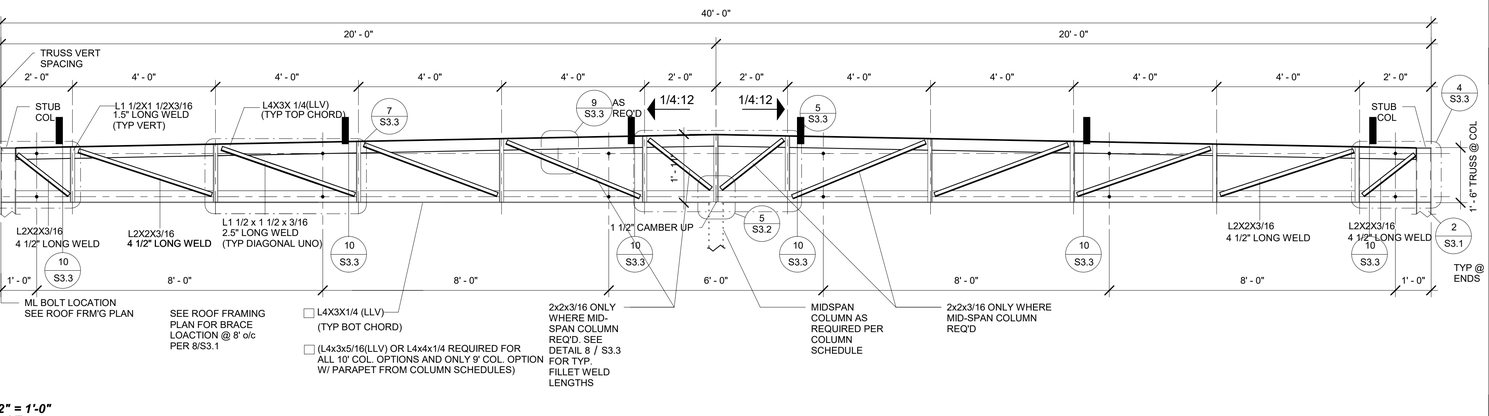


NOTE:
SEE 8 / S3.3 FOR ALL FILLET WELD LENGTH DISTRIBUTION

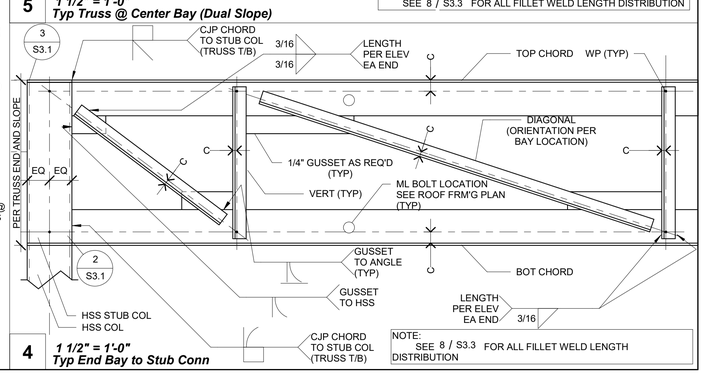
5 *1 1/2" = 1'-0"*
Typ Truss @ Center Bay (Dual Slope)



2 *1/2" = 1'-0"*
Mono Truss



1 *1/2" = 1'-0"*
Dual Truss



NOTE:
SEE 8 / S3.3 FOR ALL FILLET WELD LENGTH DISTRIBUTION

4 *1 1/2" = 1'-0"*
Typ End Bay to Stub Conn

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PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
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03/31/24
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RST#22088
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APP: 04-123059 PC
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DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

CODE: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC: 24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

ROOF PERIMETER TRUSS

PROJECT NUMBER

22088

DRAWN BY

rMc/SC

CHECKED BY

RH/RT

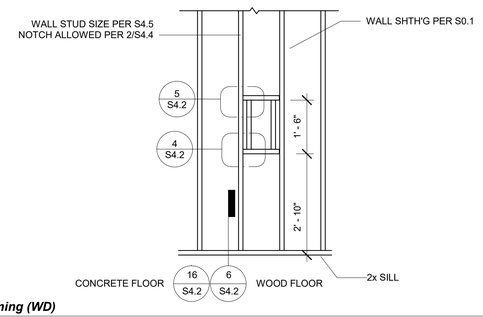
DATE

SHEET NO.

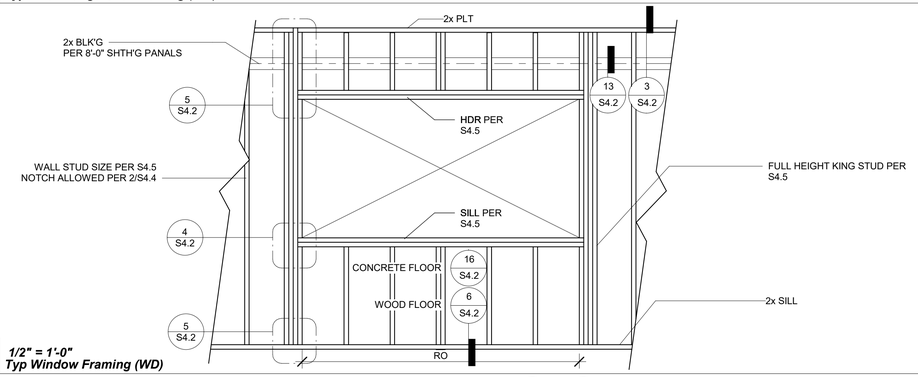
S3.3

SHEET OF

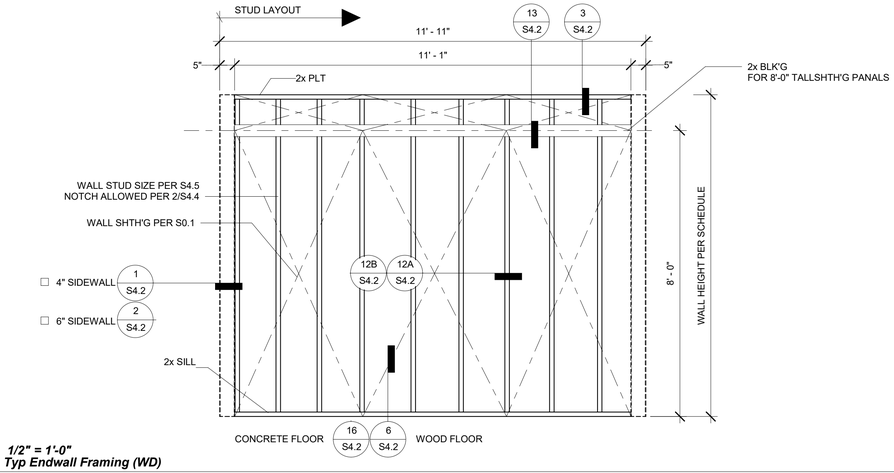
9/22/2022 11:10:42 AM M:\2022\22088 - Class Leasing, 24x40 to 120x40 High Seismic 2022 PC\REVIT\22088- 2022.09.updated S3.3 with truss cross-section detail and call outs- source 20093.rvt



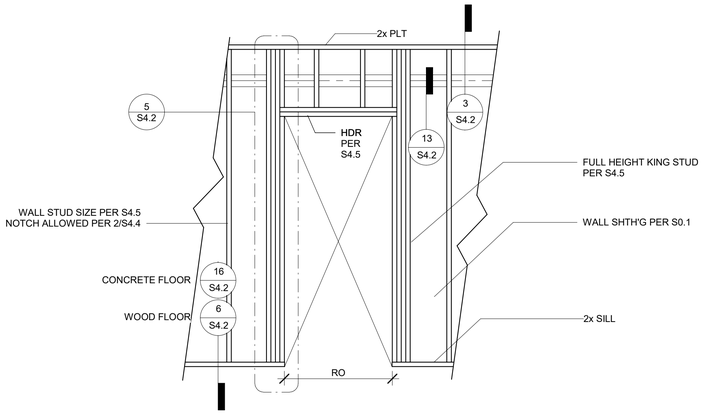
6 ***1/2" = 1'-0"***
Typ Fire Extinguisher Framing (WD)



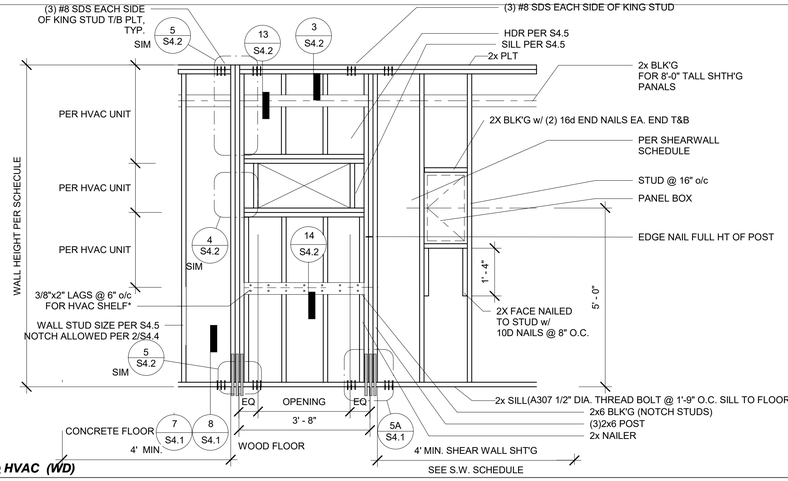
4 ***1/2" = 1'-0"***
Typ Window Framing (WD)



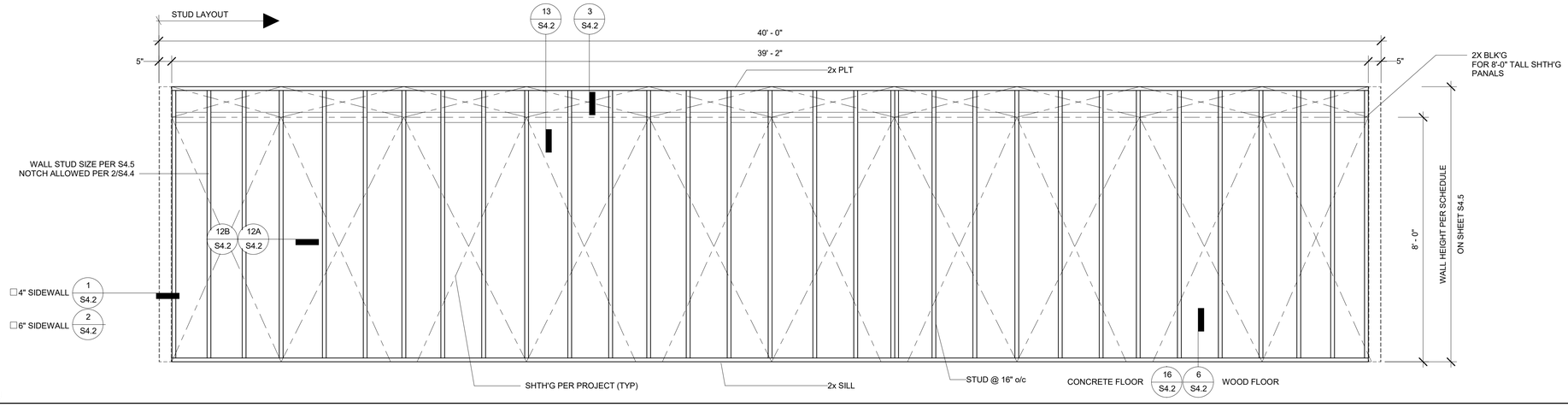
2 ***1/2" = 1'-0"***
Typ Endwall Framing (WD)



5 ***1/2" = 1'-0"***
Typ Door Framing (WD)



3 ***1/2" = 1'-0"***
Typ Endwall Framing @ HVAC (WD)



1 ***1/2" = 1'-0"***
Typ Sidewall Framing (WD)

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ♦ CONSULTING ♦ PROJECT MGT
11590 W Bernardo Court, Suite 100
San Diego, CA 92127
www.rstavares.com

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
JAMMY D. FRANKLIN
No. E-13380
03/31/24
CIVIL
STRUCTURAL
STATE OF CALIFORNIA
RST#22088
02/16/24

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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

WD WALL FRAMING ELEVATIONS

PROJECT NUMBER

22088

DRAWN BY

rMc/SC

CHECKED BY

JA/RT

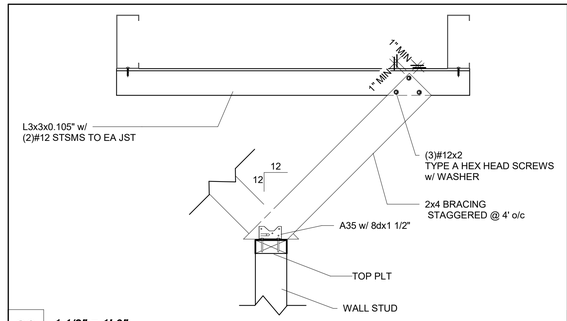
DATE

SHEET NO.

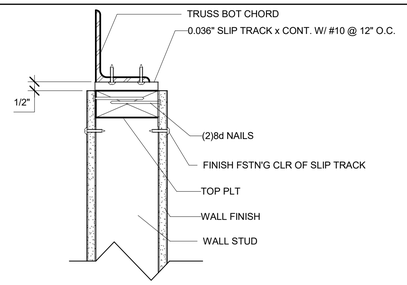
S4.1

SHEET OF

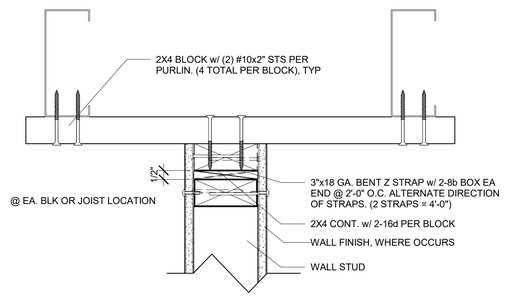
6/8/2021 1:52:57 AM C:\Users\User\Documents\RST#20132 - Class Leasing, PC 24x40 to 120x40 HS_detached_CES&R24D63.rvt



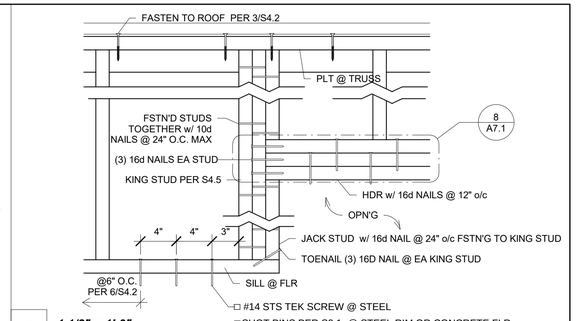
20 *1 1/2" = 1'-0"*
Sections - Interior Partition w/ Brace to Blk'g (WD)



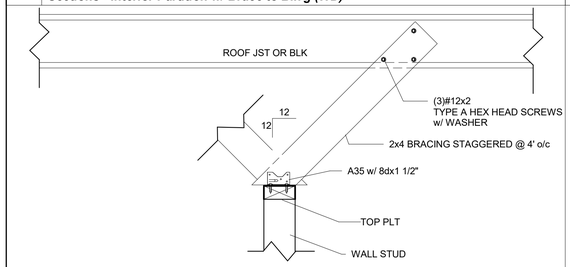
15 *3" = 1'-0"*
Section - Interior Wall Top Plate @ Truss (ML)



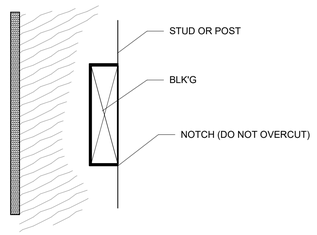
10 *3" = 1'-0"*
Sections - Interior Partition @ Blk'g (WD)



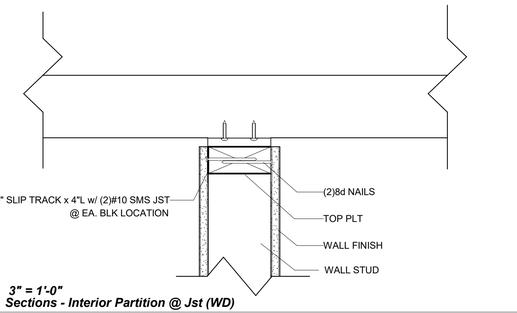
5 *1 1/2" = 1'-0"*
Elevation - Window/Door Hdr and Sill



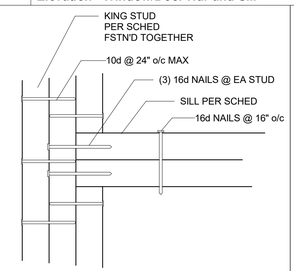
19 *1 1/2" = 1'-0"*
Sections - Interior Partition w/ Brace (WD)



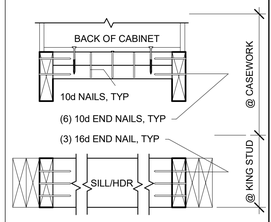
14 *3" = 1'-0"*
Notch Stud @ Blk'g



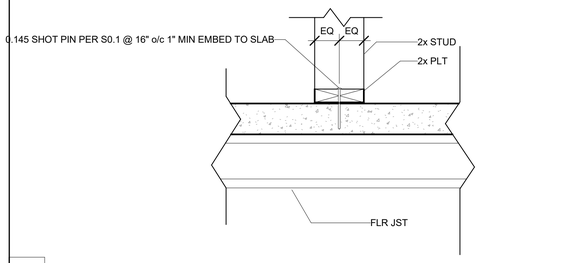
9 *3" = 1'-0"*
Sections - Interior Partition @ Jst (WD)



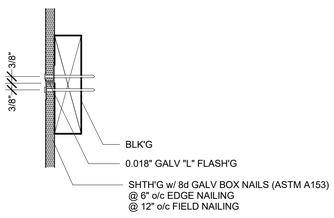
4 *3" = 1'-0"*
Elevation - Ext Wall Sill @ Window



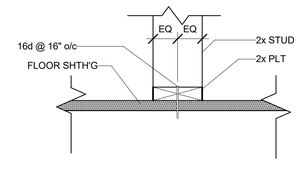
12 *1 1/2" = 1'-0"*
CASEWORK END NAIL PLAN



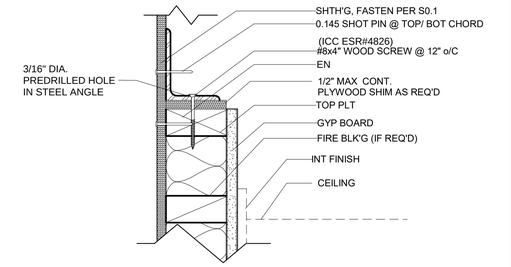
18 *1 1/2" = 1'-0"*
Typ Partition Sill Connection (CONC)



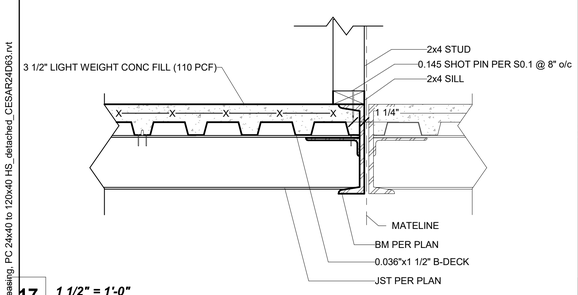
13 *3" = 1'-0"*
Shth'g @ Blk'g



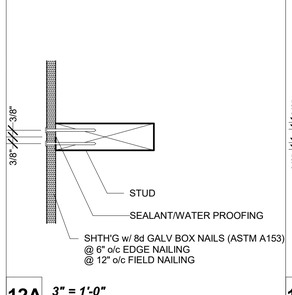
8 *1 1/2" = 1'-0"*
Typ Partition Sill Connection (WD)



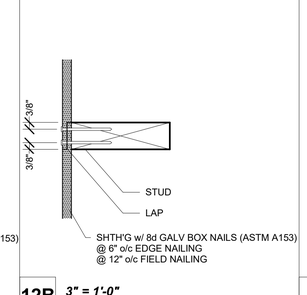
3 *3" = 1'-0"*
Section - Exterior Wall Top Plate @ Truss (WD)



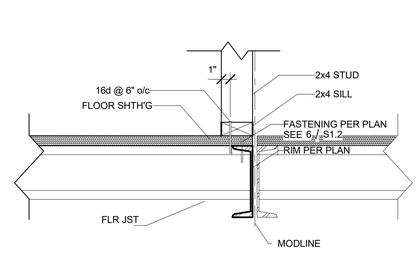
17 *1 1/2" = 1'-0"*
Wall Sill Plt Connection @ Interior Sidewall (CONC)



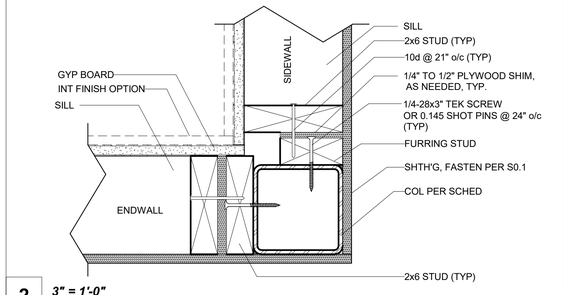
12A *3" = 1'-0"*
Shth'g @ Butt Jnt



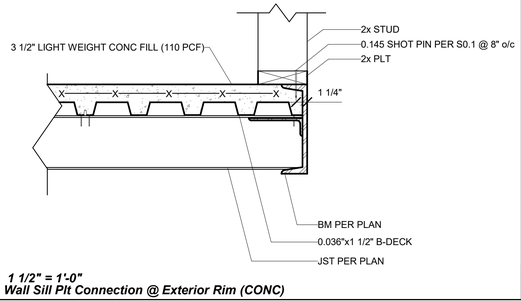
12B *3" = 1'-0"*
Shth'g @ Lap Jnt



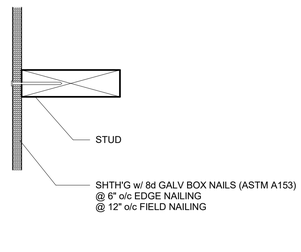
7 *1 1/2" = 1'-0"*
2x4 Wall Sill Connection @ Interior Sidewalls (WD)



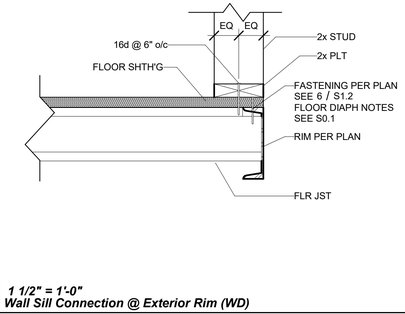
2 *3" = 1'-0"*
2x6 Framing @ Column (WD)



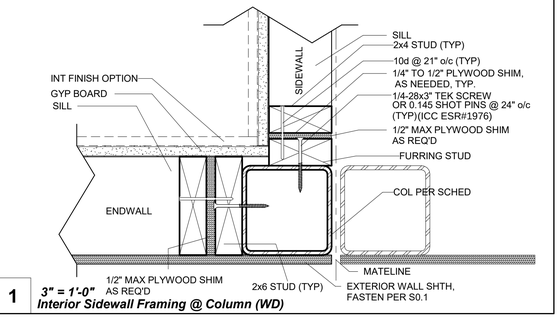
16 *1 1/2" = 1'-0"*
Wall Sill Plt Connection @ Exterior Rim (CONC)



11 *3" = 1'-0"*
Shth'g @ Stud Conn



6 *1 1/2" = 1'-0"*
Wall Sill Connection @ Exterior Rim (WD)



1 *3" = 1'-0"*
Interior Sidewall Framing @ Column (WD)

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
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SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

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REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRANCISCO
No. 23380
03/31/24
CIVIL
STRUCTURAL
STATE OF CALIFORNIA
RST#22088
02/16/24

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CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC:24' x 40'
EXPANDABLE TO
120' x 40'

SHEET TITLE

WALL DETAILS
(WOOD FRAMING)

PROJECT NUMBER: 22088

DRAWN BY: rMc/SC

CHECKED BY: JA/RT

DATE:

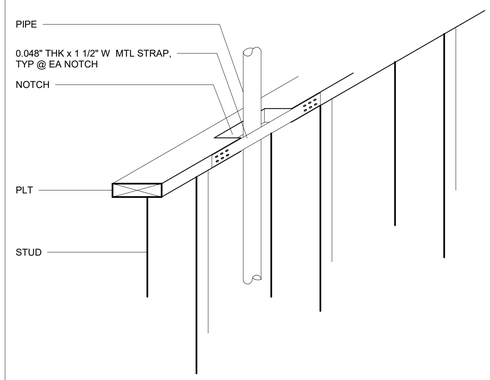
SHEET NO.

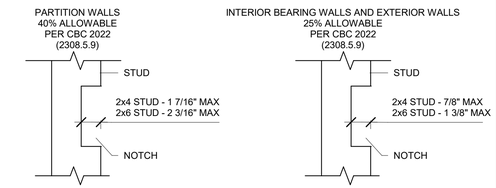
S4.2

SHEET OF

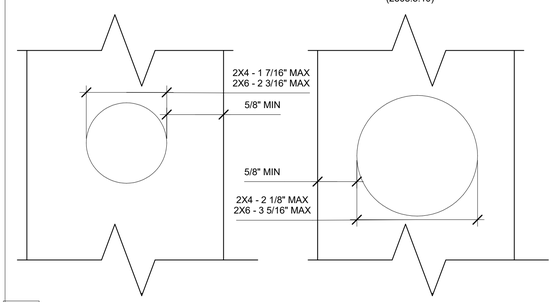
C:\Users\User\Documents\RST#20132 - Class Leasing, PC 24x40 to 120x40 HS_detached_CESAR24D63.rvt

6/8/2021 1:53:00 AM





2 ***1 1/2" = 1'-0"***
Plt Notch



1 ***6" = 1'-0"***
Stud Penetration

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ◆ CONSULTING ◆ PROJECT MGT
11590 W Bernardo Court, Suite 100
San Diego, CA 92127
www.rstavares.com

PROFESSIONAL STAMP

RST#22088

02/16/24

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ORIGINAL PC STATE AGENCY APPROVAL

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DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
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SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

TYP FRAMING

PROJECT NUMBER

22088

DRAWN BY

rMc/SC

CHECKED BY

JA/RT

DATE

SHEET NO.

S4.4

SHEET OF

6/8/2021 1:53:06 AM C:\Users\User\Documents\RST#20132 - Class Leasing, PC 24x40 to 120x40 HS_detached_CESAR24D63.rvt

2x4 Interior Wall Opening Schedule

COL HEIGHT	OPN'G SIZE	HDR			SILL			FULL HEIGHT KING STUD		
		Lumber	Number	Type	Lumber	Number	Type	Lumber	Number	Type
9FT	3070	HF / SYP	1	#2	-	-	-	HF	2	#2
		DF / SYP	1	#2	-	-	-	DF	2	#2
	4070	HF / SYP	1	#2	-	-	-	HF	2	#2
		DF / SYP	1	#2	-	-	-	DF	2	#2
	6040	HF / SYP	2	#2	DF	2	#2	HF	2	#2
		DF / SYP	2	#2	DF	2	#2	DF	2	#2
	8040	HF / SYP	3	#2	HF	3	#2	HF	2	#2
		DF / SYP	3	#2	DF	3	#2	DF	2	#2
10FT	3070	HF / SYP	1	#2	-	-	-	HF	2	#2
		DF / SYP	1	#2	-	-	-	DF	2	#2
	4070	HF / SYP	1	#2	-	-	-	HF	2	#2
		DF / SYP	1	#2	-	-	-	DF	2	#2
	6040	HF / SYP	2	#2	HF	2	#2	HF	2	#2
		DF / SYP	2	#2	DF	2	#2	DF	2	#2
	8040	HF / SYP	3	#2	HF	3	#2	HF	2	#2
		DF / SYP	3	#2	DF	3	#2	DF	2	#2

2x6 Exterior Wall Opening Schedule (SHTH'G FINISH)

COL HEIGHT	OPN'G SIZE	HDR			SILL			FULL HEIGHT KING STUD		
		Lumber	Number	Type	Lumber	Number	Type	Lumber	Number	Type
9FT	3070	HF / SYP	1	#2	HF	1	#2	HF	1	#2
		DF / SYP	1	#2	DF	1	#2	DF	1	#2
	4070	HF / SYP	1	#2	HF	1	#2	HF	1	#2
		DF / SYP	1	#2	DF	1	#2	DF	1	#2
	6040	HF / SYP	1	#2	HF	1	#2	HF	1	#2
		DF / SYP	1	#2	DF	1	#2	DF	1	#2
	8040	HF / SYP	1	#2	HF	1	#2	HF	2	#2
		DF / SYP	1	#2	DF	1	#2	DF	2	#2
10FT	3070	HF / SYP	1	#2	HF	1	#2	HF	1	#2
		DF / SYP	1	#2	DF	1	#2	DF	1	#2
	4070	HF / SYP	1	#2	HF	1	#2	HF	1	#2
		DF / SYP	1	#2	DF	1	#2	DF	1	#2
	6040	HF / SYP	1	#2	HF	1	#2	HF	2	#2
		DF / SYP	1	#2	DF	1	#2	DF	2	#2
	8040	HF / SYP	1	#2	HF	1	#2	HF	2	#2
			1	#2	DF	1	#2	DF	2	#2

2x6 Exterior Wall Opening Schedule (PLASTER FINISH)

COL HEIGHT	OPN'G SIZE	HDR			SILL			FULL HEIGHT KING STUD		
		Lumber	Number	Type	Lumber	Number	Type	Lumber	Number	Type
9FT	3070	HF	1	#2	HF	1	#2	HF	1	#2
		DF	1	#2	DF	1	#2	DF	1	#2
	4070	HF	1	#2	HF	1	#2	HF	1	#2
		DF	1	#2	DF	1	#2	DF	1	#2
	6040	HF	1	#2	HF	1	#2	HF	2	#2
		DF	1	#2	DF	1	#2	DF	1	#2
	8040	HF	2	#2	HF	1	#2	HF	2	#2
		DF	1	#2	DF	1	#2	DF	2	#2
10FT	3070	HF	1	#2	HF	1	#2	HF	2	#2
		DF	1	#2	DF	1	#2	DF	1	#2
	4070	HF	1	#2	HF	1	#2	HF	2	#2
		DF	1	#2	DF	1	#2	DF	1	#2
	6040	HF	1	#2	HF	1	#2	HF	2	#2
		DF	1	#2	DF	1	#2	DF	2	#2
	8040	HF	2	#2	HF	1	#2	HF	3	#2
		DF	1	#2	DF	1	#2	DF	2	#2

2x4 Interior Wall Framing Schedule

COL HEIGHT	Typical Location				4ft From Building Corner			
	Lumber	Number	Type	Spacing	Lumber	Number	Type	Spacing
9	HF	1	#2	16" O.C.	-	-	-	-
	DF	1	#2	16" O.C.	-	-	-	-
10	HF	1	#2	16" O.C.	-	-	-	-
	DF	1	#2	16" O.C.	-	-	-	-

2x6 Exterior Wall Framing Schedule (SHTH'G FINISH)

COL HEIGHT	Typical Location				4ft From Building Corner			
	Lumber	Number	Type	Spacing	Lumber	Number	Type	Spacing
9	HF	1	#2	16" O.C.	HF	1	#2	16" O.C.
	DF	1	#2	16" O.C.	DF	1	#2	16" O.C.
10	HF	1	#2	16" O.C.	HF	1	#2	16" O.C.
	DF	1	#2	16" O.C.	DF	1	#2	16" O.C.

2x6 Exterior Wall Framing Schedule (PLASTER FINISH)

COL HEIGHT	Typical Location				4ft From Building Corner			
	Lumber	Number	Type	Spacing	Lumber	Number	Type	Spacing
9	HF	1	#2	16" O.C.	HF	1	#2	16" O.C.
	DF	1	#2	16" O.C.	DF	1	#2	16" O.C.
10	HF	1	#2	16" O.C.	HF	1	#2	16" O.C.
	DF	1	#2	16" O.C.	DF	1	#2	16" O.C.

NOTE: SEE DETAIL 1 ON SHEETS A2.1 - A2.6

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ♦ CONSULTING ♦ PROJECT MGT
11590 W Bernardo Court, Suite 100
San Diego, CA 92127
www.rstavares.com

PROFESSIONAL STAMP

02/16/24

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CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE

FRAMING SCHEDULES

PROJECT NUMBER

22088

DRAWN BY

rMc/SC

CHECKED BY

JA/RT

DATE

SHEET NO.

S4.5

SHEET OF

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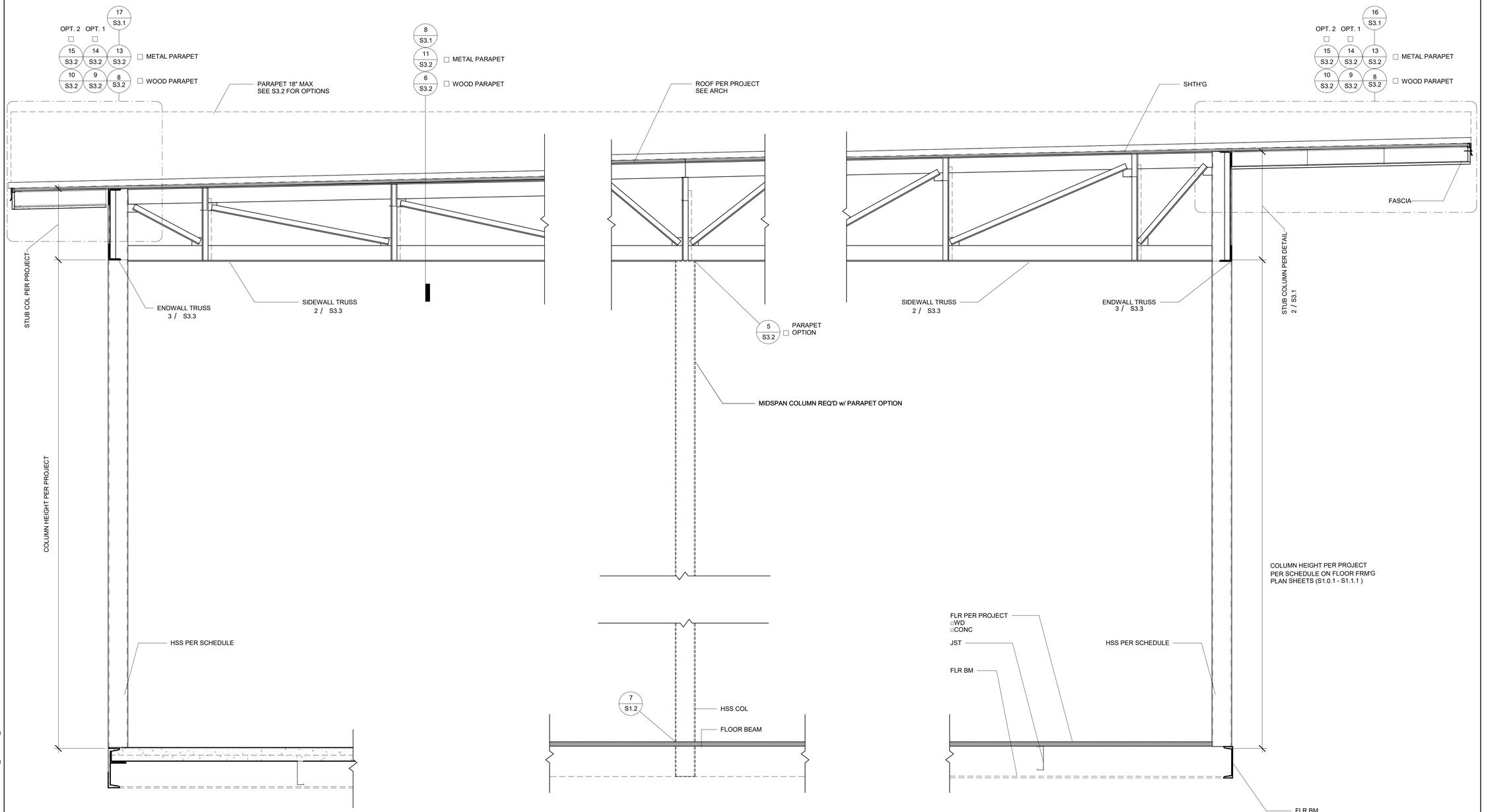
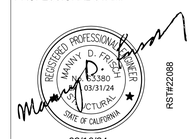


1 ***1" = 1'-0"***
Structural Section (MONO)

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ♦ CONSULTING ♦ PROJECT MGT
11590 W Bernardo Court, Suite 100
San Diego, CA 92127
www.rstavares.com

PROFESSIONAL STAMP



RST#22088

02/16/24

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DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
LONG. SECTION - (MONO)

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
JA/RT

DATE

SHEET NO.
S5.0

SHEET OF

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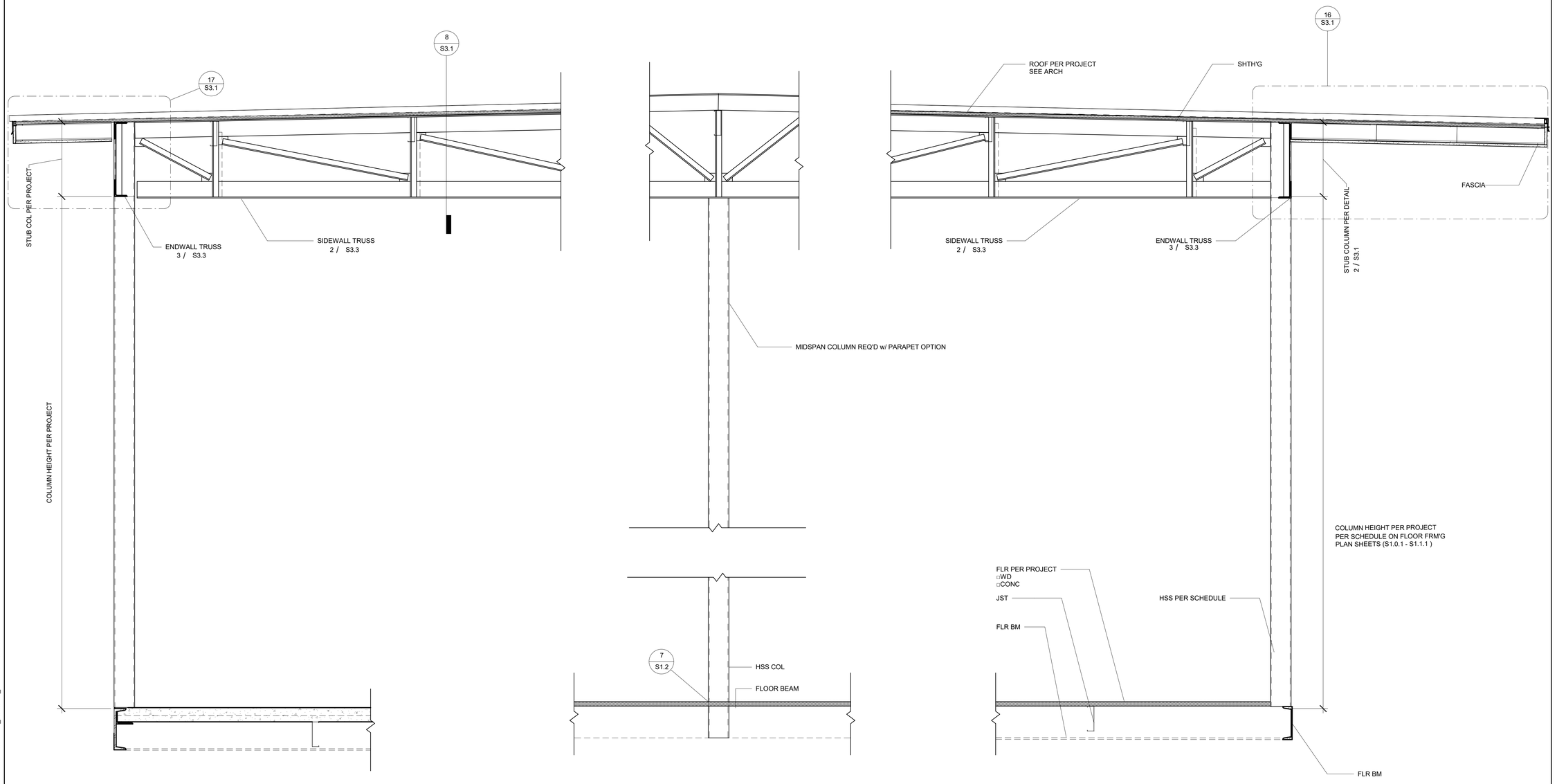

1 *1" = 1'-0"*
Structural Section (DUAL)

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ♦ CONSULTING ♦ PROJECT MGT
11590 W Bernardo Court, Suite 100
San Diego, CA 92127
www.rstavares.com

PROFESSIONAL STAMP

02/16/24

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Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
LONG SECTION - (DUAL)

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

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JA/RT

DATE

SHEET NO.
S5.1

SHEET OF

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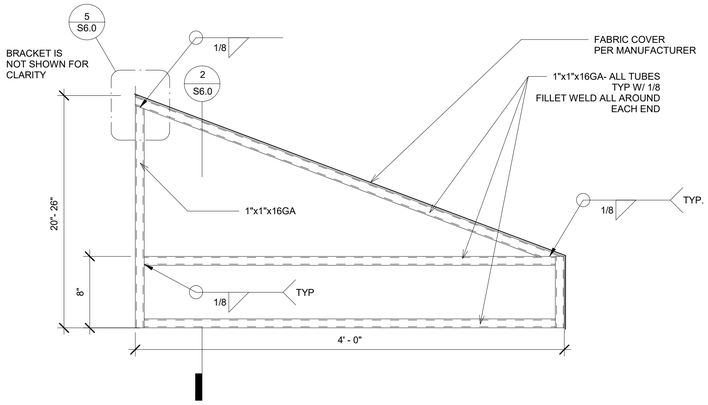
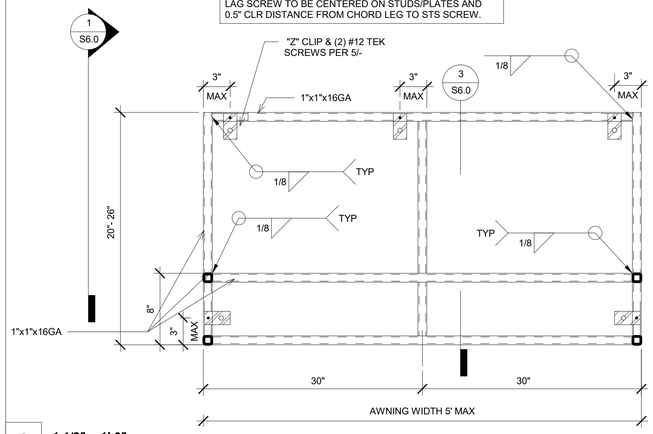
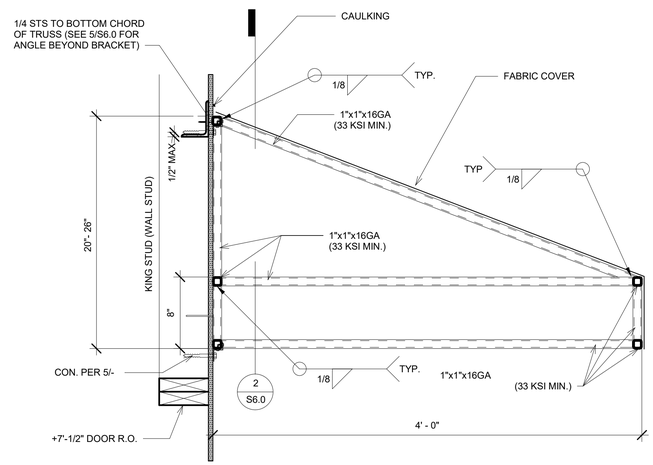


1 *1 1/2" = 1'-0"*
SIDE VIEW1

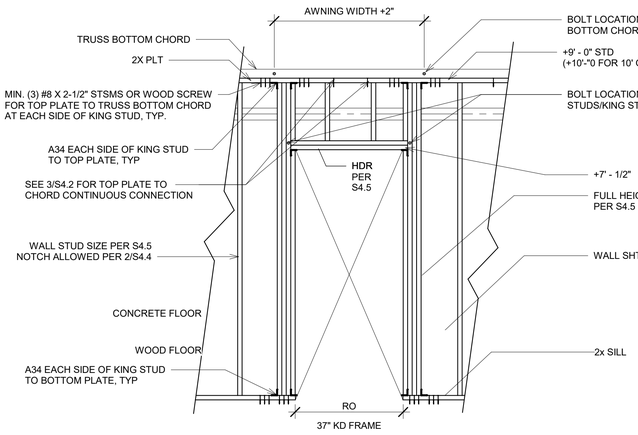
NOTE:
AWNING IS FACTORY BUILT AND SITE INSTALLED. SITE INSTALLATION OF AWNING MUST BE COORDINATED WITH EXISTING STUDS/PLATE/TRUSS CHORDS IN MOD. SEE 4/- FOR LAG SCREW DIMENSIONS AND WALL STUD/PLATE AND TRUSS CHORD LOCATIONS.
LAG SCREW TO BE CENTERED ON STUDS/PLATES AND 0.5" CLR DISTANCE FROM CHORD LEG TO STS SCREW.



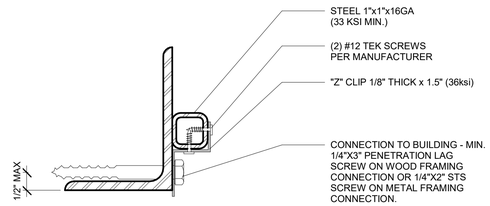
2 *1 1/2" = 1'-0"*
LONGITUDINAL SECTION1



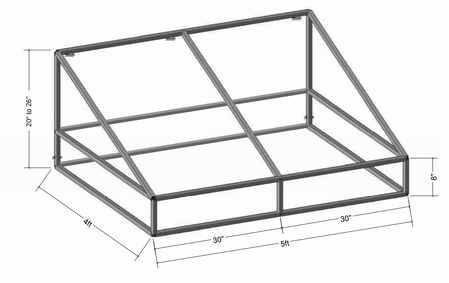
3 *1 1/2" = 1'-0"*
TRANSVERSE SECTION W/ BUILDING FRAMING/CONNECTION1



4 *1/2" = 1'-0"*
Typ Door Framing (WD)5



5 *6" = 1'-0"*
ANGLE BRACKET CONNECTION



6 *1" = 1'-0"*
AWNING ISOMETRIC

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
DESIGN ♦ CONSULTING ♦ PROJECT
11590 W. BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
TIMOTHY D. KOCH
No. S3380
Exp. 03/31/24
STRUCTURAL
STATE OF CALIFORNIA
RST #22088

02/16/24

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CLIENT

Class Leasing
1651Juanita Street, San Jacinto, CA 92583
Voice (951) 943-1908 Fax (951)943-5768

ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

REVISIONS

#	Description	BY

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
PC 2022 CBC:24' x 40' EXPANDABLE TO 120' x 40'

SHEET TITLE
AWNING FRAMING

PROJECT NUMBER
22088

DRAWN BY
rMc/SC

CHECKED BY
BR/RT

DATE
2/19/2021

SHEET NO.
S6.0

SHEET OF SHEETS

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PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2020

LIST OF APPLICABLE CODES
2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
2022 CALIFORNIA GREEN BUILDING STANDARD CODE (CALGREEEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

APPLICABLE STANDARDS
FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80.

NOTE: CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION

*CALIFORNIA ADMINISTRATIVE CODE, PART1, CHAPTER 10, ADMINISTRATIVE REGULATIONS FOR THE CALIFORNIA ENERGY COMMISSION (CEC)

GENERAL NOTES

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATION SHALL BE MADE BY AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT(CCD) BY DSA AS REQUIRED BY SECTION 4-338 PART1, TITLE 24, CCR

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

COMPLETE ACCESS IS A DIVISION OF INTEGRATED STAIR SYSTEMS INC. WITH CORPORATE OFFICES LOCATED IN 1345 RYAN RD, BUCKLEY, WA 98321, (360) 829-4220

DESIGN LOADS

LIVE LOAD:	100 PSF (4.8 kPa)
HANDRAIL IMPACT:	200 LBS (0.9kN)
HANDRAIL DIST. LOAD:	50 PLF (0.7 kN/m)
RISK CATAGORY:	III
SEISMIC:	Ss=2.80g, S1=1.99g, R=1.25, SITE CLASS D
LATERAL RESISTING SYST:	OTHER STRUCTURES SIMILAR TO BUILDINGS
WIND:	110 MPH, 3 SEC GUST EXPOSURE "C", Kzt=1.0
SEIS IMPORTANCE FACTOR:	Ie=1.25, Iw=1.0 Cs=1.493
DESIGN BASE SHEAR, V:	1493 W
SNOW LOAD:	0 PSF (0 kPa)
SOIL ALLOWABLE BEARING:	1,000 PSF (4.8 kPa

MATERIALS

SQUARE STEEL TUBE	ASTM A513 GR. C	Fy= 33 KSI (345 MPa
RAMP OVERHANG POST	ASTM A500 B	Fy= 46 KSI

*ALL STEEL TO BE COATED WITH GALVANIZED RUST INHIBITING COATING

WOOD FOUNDATION SHALL BE OF FOUNDATION GRADE REDWOOD OR PRESERVATIVE PRESSURE TREATED HEM-FIR #2 AND IS ALLOWED TO REST DIRECTLY ON SOIL OR PAVEMENT.

WELDS

WELDING SHALL BE IN ACCORDANCE WITH AWS D.1.1-10 USING E70XX ELECTRODES FOR STEEL
AND AWS D1.2 AND A5.10 FOR ALUMINUM, USING ALMIGWELD ER4043

BOLTS, SCREWS AND NAILS

STEEL TO STEEL CONNECTIONS: ASTM A307 CARBON STEEL BOLTS SHALL BE GRADE 5 ZINC PLATED, HOT DIPPED GALVANIZED TO ASTM A153 OR ELECTROGALVANIZED TO ASTM B63.3. FASTENER SHALL BE LUBRICATED TO ELIMINATE GALLING. ALL STEEL MEMBERS IN CONTACT WITH ALUMINIUM SHALL BE ZINC COATED TO ELIMINATE GALVANIC REACTION.

STEEL TO STEEL & WOOD CONNECTIONS: ANSI/ASME STEEL LAG SCREWS, STEEL STANDARD WOOD SCREWS, WOOD TO WOOD CONNECTION: ASTM STANDARD COMMOM STEEL NAIL.

ITW RED HEAD CONCRETE WEDGE ANCHORS SHALL BE INSTALLED PER RECOMMENDATION SHOWN IN ESR-2427

HANDRAIL NOTES:

1) MANEUVERING CLEARANCE ON EXTERIOR PULL SIDE OF DOOR SHALL BE 42" TYPICAL (610MM) MINIMUM WITH 60" (1524MM) MINIMUM LANDING IN FRONT OF DOOR.

2) HANDRAILS SHALL BE CONTINUOUS ALONG BOTH SIDES. HANDRAILS SHALL BE PARALLEL WITH THE SURFACE AND PROJECT 12" (301MM) ON BEYOND TOP OF RISER AND 12" (301MM) PLUS 1 TREAD AT BOTTOM RISER. AT RAMPS WHERE HANDRAIL ARE NOT CONTINUOUS BETWEEN RUNS THE HANDRAIL SHALL EXTEND HORIZONTALLY ABOVE THE LANDING 12" (301MM) MINIMUM BEYOND THE BEGINNING AND ENDING OF RAMPS

3) TOP OF HANDRAILS SHALL BE MOUNTED BETWEEN 34" (864MM) AND 38" (965MM) ABOVE THE WALKING SURFACE, ONE CONSISTENT HEIGHT, BEIGINNING TO END.

4) CLEARANCE BETWEEN HANDRAIL AND WALL SHALL BE A MINIMUM OF 1-1/2" (38MM).

5) GUARDS ARE TO BE DESIGNED FOR A CONCENTRATED LOAD OF 200 LBF (0.9 kN) APPLIED @ ANY POINT AND ANY DIRECTION ALONG THE RAIL OR A UNIFORM LOAD OF 50 PLF (0.7 kN/m) APPLIED HORIZONTALLY @ HANDRAIL HEIGHT.

7) HANDRAILS SHALL HAVE A CIRCULAR CROSS SECTION WITH AN OUTSIDE DIAMETER OF 1-1/4" (31.75MM) MINIMUM AND NOT GREATER THAN 2" (51MM) MAXIMUM. **11B-505.7.2** NON-CIRCULAR CROSS SECTIONS. HANDRAIL GRIPPING SURFACES WITH A NON-CIRCULAR CROSS SECTION SHALL HAVE A PERIMETER DIMENSION OF 4 INCHES (102 MM) MINIMUM AND 6¼ INCHES (159 MM) MAXIMUM, AND A CROSS-SECTION DIMENSION OF 2 ¼ INCHES (57 MM) MAXIMUM.

8) GRIPPING SURFACE SHALL BE CONTINUOUS ALONG THIER LENGTH AND SHALL NOT BE OBSTRUCTED ALONG THEIR TOPS OR SIDES.

9) HANDRAILS SHALL NOT ROTATE IN THEIR FITTINGS.

10) ENDS OF HANDRAILS SHALL RETURN SMOOTHLY TO FLOOR, WALL OR POST.

1 ***1 1/2" = 1'-0"***
Notes

RAMP NOTES

1) RAMPS SHALL CONFORM TO CBC 2022 TITLE 24 PART 2, CHAPTER 11B, 11B-405

2) RAMP SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12 (8.33% SLOPE) FOR A MAXIMUM RISE OF 30" (762MM)

3) THE MAXIMUM VERTICAL RISE OF RAMP RUN SHALL BE 30" (762MM) MAXIMUM

4) RAMPS SHALL HAVE LANDING AT BOTTOM AND TOP OF EACH RAMP RUN

5) THE SLOPE ON LANDINGS SHALL NOT BE STEEPER THAN ONE UNIT VERTICAL IN 48 UNITS HORIZONTAL (2% SLOPE) IN ANY DIRECTION

6) LANDING SHALL HAVE A WIDTH AT LEAST AS WIDE AS THE WIDEST RAMP RUN LEADING TO THE LANDING AND A MINIMUM LENGTH OF 60" IN THE DIRECTION OF TRAVEL @ TOP LANDING - 72" MIN @ BOT LANDING

7) CHANGES IN DIRECTION OF TRAVEL SHALL HAVE A LANDING 60" WIDE BY 72" LONG (1524MM x 1829MM) MINIMUM, WITH WITH THE LENGTH BEING IN THE DIRCTION OF DOWNWARD TRAVEL AND CHANGES IN DIRECTION

8) MANEUVERING CLEARANCE ON LANDING ADJACENT TO DOORWAYS SHALL BE NO LESS THAN 42" WITH DOOR IN ANY POSITION AND SHALL NOT BE REDUCED BY MORE THAN 3" WHEN DOOR IS FULLY OPENED

9) WALKING SURFACE SHALL BE ROUGHED OR SHALL BE OF SLIP RESISTANT DIAMOND PLATE ALUMINUM AND ALL LANDINGS TO BE DESIGNED TO NOT RETAIN STANDING WATER - 2.083 MAX SLOPE ANY DIRECTION

ADDITIONAL NOTES

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR

SCOPE OF WORK

CONSTRUCTION OF RAMP AND STAIRS BUILDINGS (RELOCATABLE)

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

Application Number:	School Name:	School District:
DSA File Number:	Increment Number:	Date Created:

2022 CBC

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

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

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required	**GE (Geotechnical Engineer)** – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.
Periodic – Indicates that a periodic special inspection is required	**LOR (Laboratory of Record)** – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.
Test – Indicates that a test is required	**PI (Project Inspector)** – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.
	SI (Special Inspection) – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

	CS. POST-INSTALLED ANCHORS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Inspect installation of post-installed anchors	**See Notes**	**SI***	**1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8** (See Appendix (end of this form) for exemptions). ACI 318-14 Sections 17.8 & 26.13. * May be performed by the project inspector when specifically approved by DSA.
☐	**b.** Test post-installed anchors.	**Test**	**LOR**	**1910A.5.** (See Appendix (end of this form) for exemptions.)
	S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	**Periodic**	*	**Table 1705A.2.1 Item 3a–3c**, 2202A.1; AISI S100-20 Section A3.1 & A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.
☑	**b.** Test unidentified materials	**Test**	**LOR**	**2202A.1.**
☑	**c.** Examine seam welds of HSS shapes	**Periodic**	**SI**	DSA IR 17-3.
☑	**d.** Verify and document steel fabrication per DSA-approved construction documents.	**Periodic**	**SI**	Not applicable to cold-formed steel light-frame construction, except for trusses (**1705A.2.4**).
	S/A3. WELDING:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	**Periodic**	**SI**	**1705A.2.5, Table 1705A.2.1 Items 4 & 5**. AWS D1.1 and AWS D1.8 for structural steel. AWS D1.2 for Aluminum. AWS D1.3 for cold-formed steel. AWS D1.4 for reinforcing steel. DSA IR 17-3.
☑	**b.** Verify weld filler material manufacturer's certificate of compliance.	**Periodic**	**SI**	DSA IR 17-3.
☑	**c.** Verify WPS, welder qualifications and equipment.	**Periodic**	**SI**	DSA IR 17-3.
	S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	**Continuous**	**SI**	**Table 1705A.2.1 Items 5a.1–4**; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☑	**b.** Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	**Periodic**	**SI**	**1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6**; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☑	**c.** Inspect welding of stairs and railing systems.	**Periodic**	**SI**	**1705A.2.1**; AISC 360-16 (and AISC 341-16 as applicable). AWS D1.1 & D1.3; DSA IR 17-3.

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

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

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

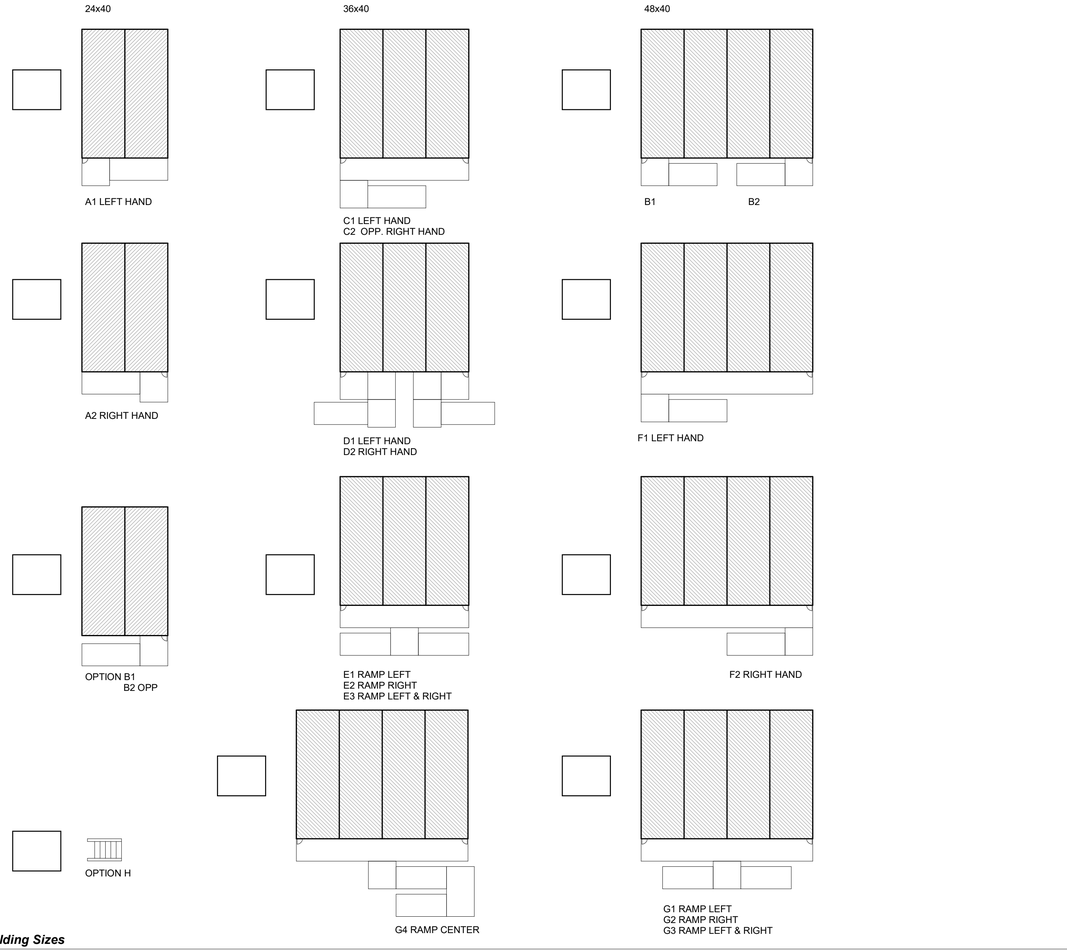
Ramp Option Schedule:

option1 : ramp & landing @ building
(plan view 1/SR1)

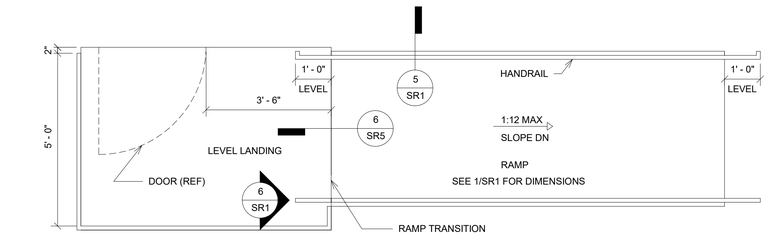
option 2 : ramp and landing with offset ramp
(plan view 2/SR1)

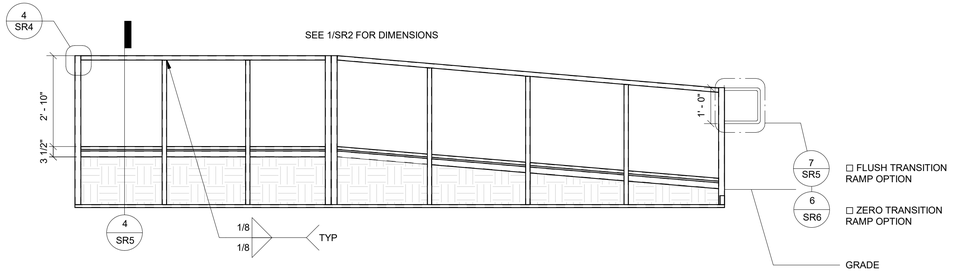
option 3: ramp and platform landing
(plan view 3/SR1)

option 4 : ramp and landing with switch back ramp
(plan view 4/SR1)



2 ***Ramps Options w/ Different Building Sizes***





3 ***1/2" = 1'-0"***
Standard Ramp

PROJECT SPECIFIC STATE AGENCY APPROVAL

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STATE OF CALIFORNIA

02/16/24

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CLIENT

Class Leasing
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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date22079

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
RAMPS PC
CLASS LEASING
PC#04-121419

SHEET TITLE
Module Plan and Notes
(COVER SHEET)

PROJECT NUMBER
22079

DRAWN BY
SM

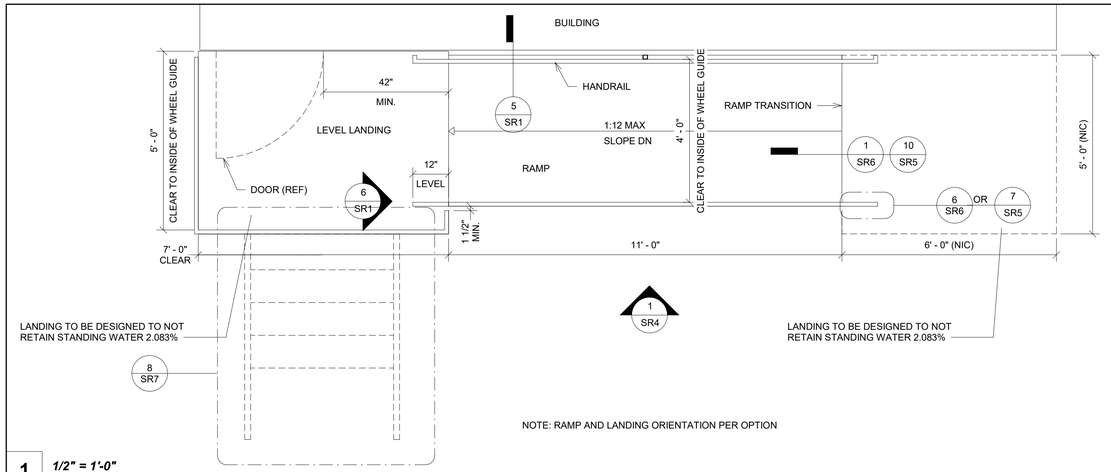
CHECKED BY
rMc

DATE
6/15/2021

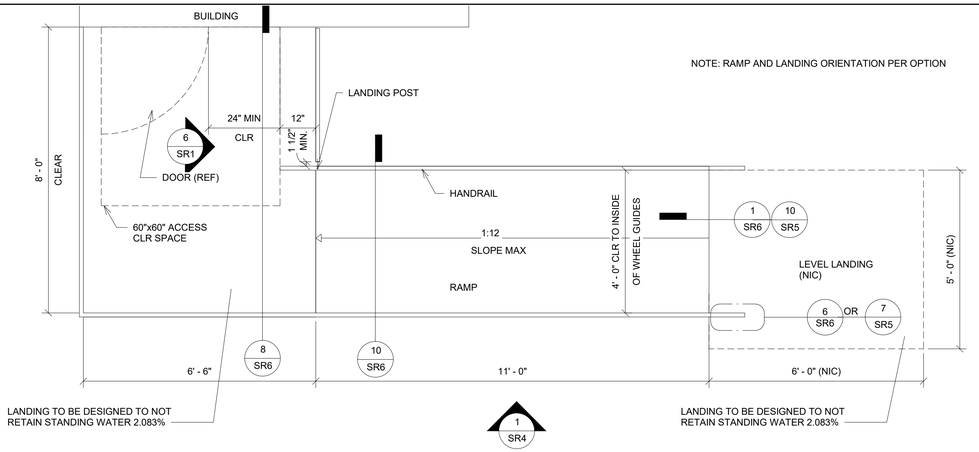
SHEET NO.
SR0

SHEET OF

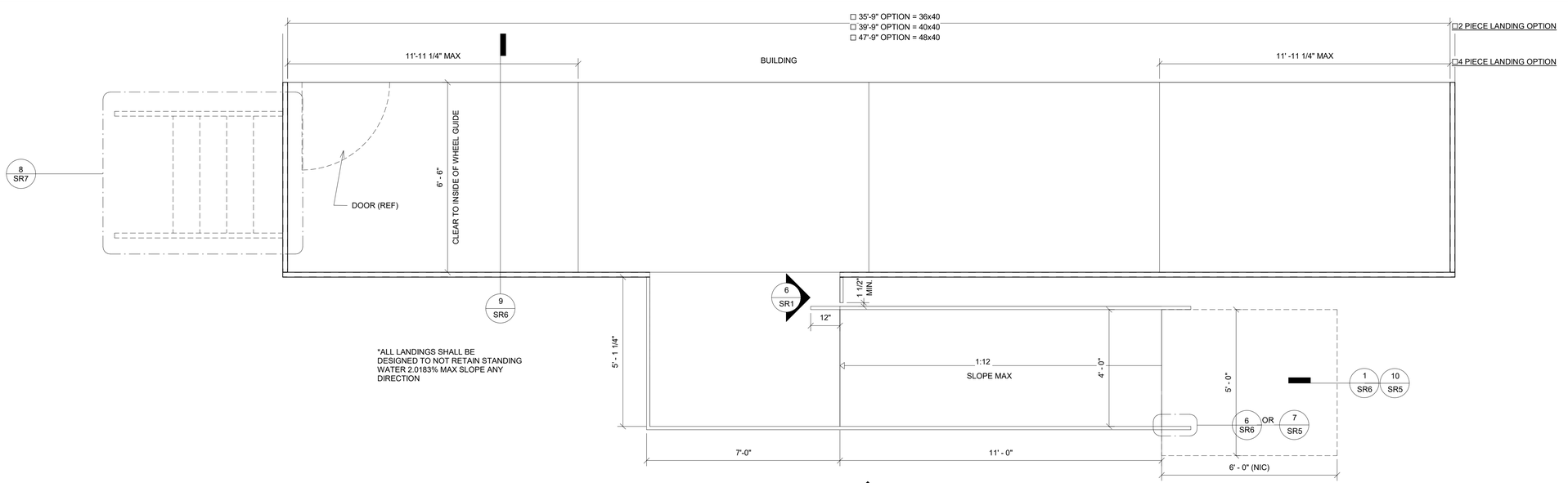
6/15/2021 7:29:24 PM M:\2020\22116 - Class Leasing, 24x40 - 120x40 2022 CBC Updates\REVITRST#22116 - Aries, Ramps and Stairs PC.rvt



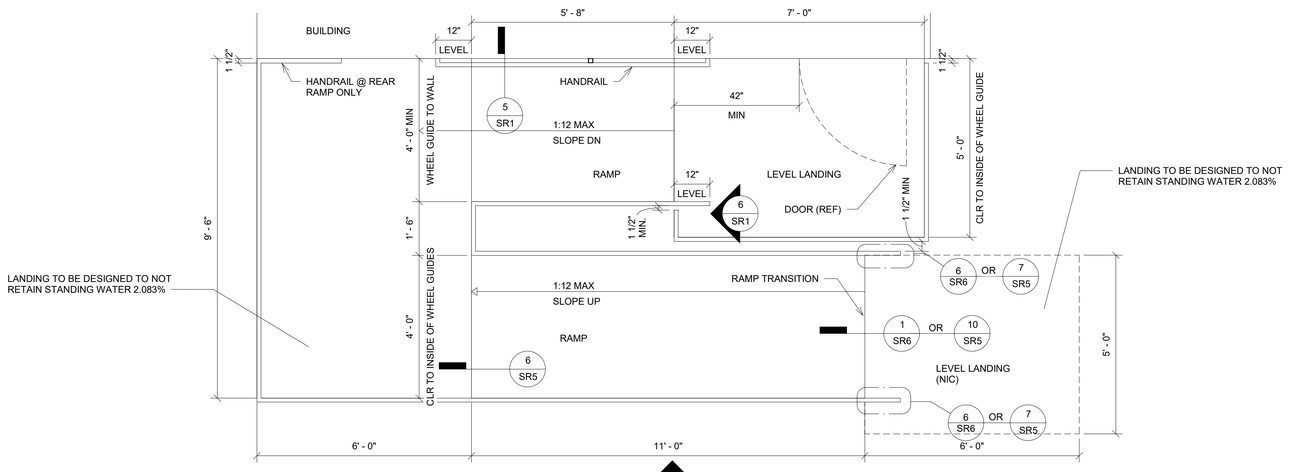
1 *1/2" = 1'-0"*
Ramp & Landing @ Building



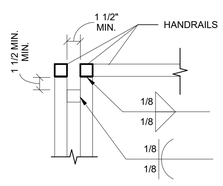
2 *1/2" = 1'-0"*
Ramp & Landing w/ Offset Ramp



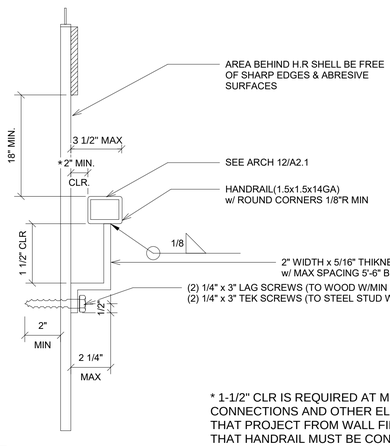
3 *1/2" = 1'-0"*
Ramp and Platform Landing



4 *1/2" = 1'-0"*
Ramp & Landing w/ Switch Back Ramp



6 *1 1/2" = 1'-0"*
RAMP & LANDING CONNECTION @ RAILS



5 *3" = 1'-0"*
Handrail

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
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WWW.RSTAVARES.COM

PROFESSIONAL STAMP

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CLIENT

Class Leasing

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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date22079

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

RAMPS PC
CLASS LEASING
PC#04-121419

SHEET TITLE

Ramp and Landing Plan

PROJECT NUMBER 22079

DRAWN BY SM

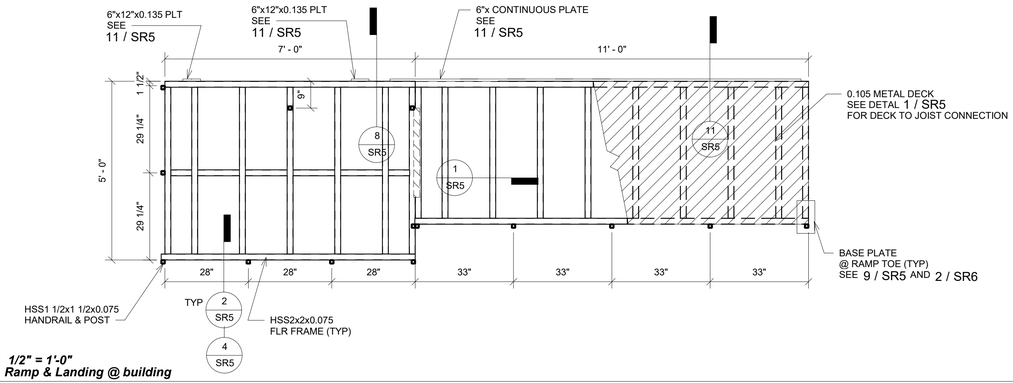
CHECKED BY rMc

DATE 12/23/2022

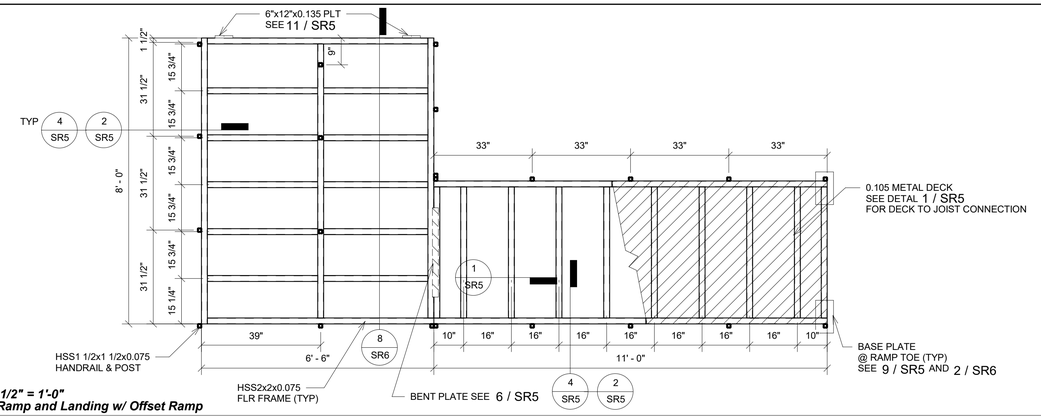
SHEET NO. SR1

SHEET OF

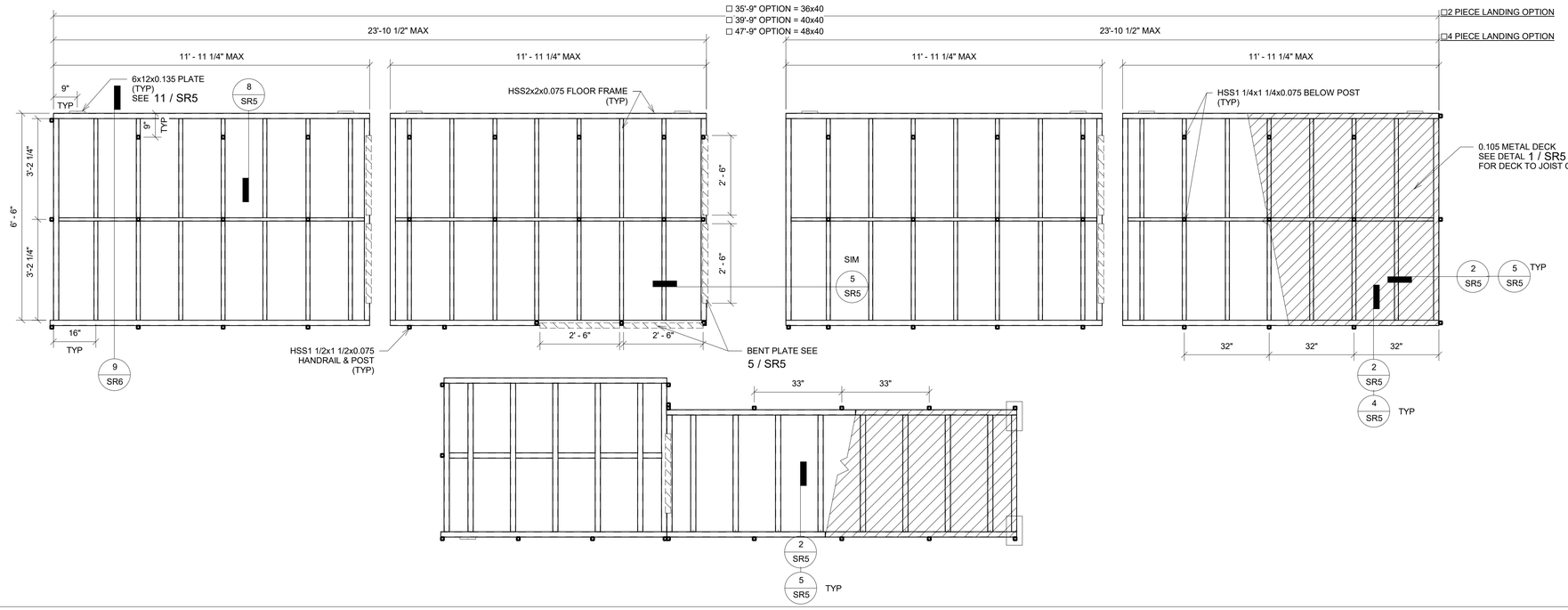
6/15/2021 7:29:25 PM M:\2020\20093 - Class Leasing, 24x40 - 120x40 2022 CBC Updates\REVIT\RST#20093 - Aries, Ramps and Stairs PC.rvt



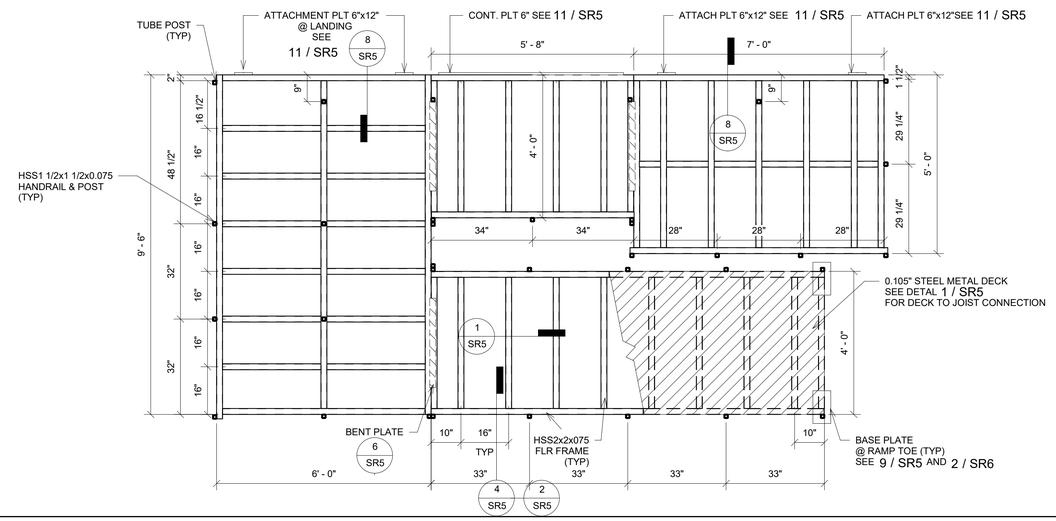
1 ***1/2" = 1'-0"***
Ramp & Landing @ building



2 ***1/2" = 1'-0"***
Ramp and Landing w/ Offset Ramp



3 ***1/2" = 1'-0"***
Ramp & Platform Landing Frame



4 ***1/2" = 1'-0"***
Ramp & Landing w/ Switch Back Ramp

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
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S3388
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STATE OF CALIFORNIA

02/16/24

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APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date22079

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
RAMPS PC
CLASS LEASING
PC#04-121419

SHEET TITLE
Ramp and Landing Framing

PROJECT NUMBER
22079

DRAWN BY
SM

CHECKED BY
BR/rMc

DATE
12/23/2022

SHEET NO.
SR2

SHEET OF

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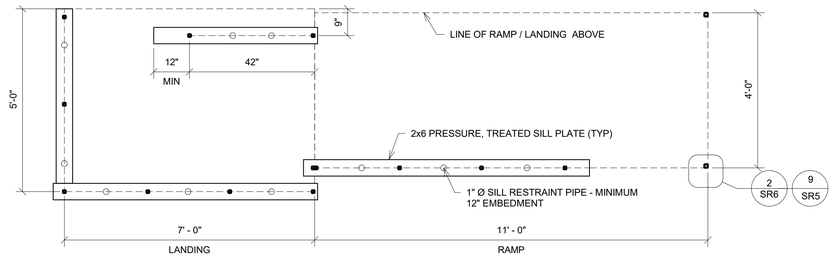
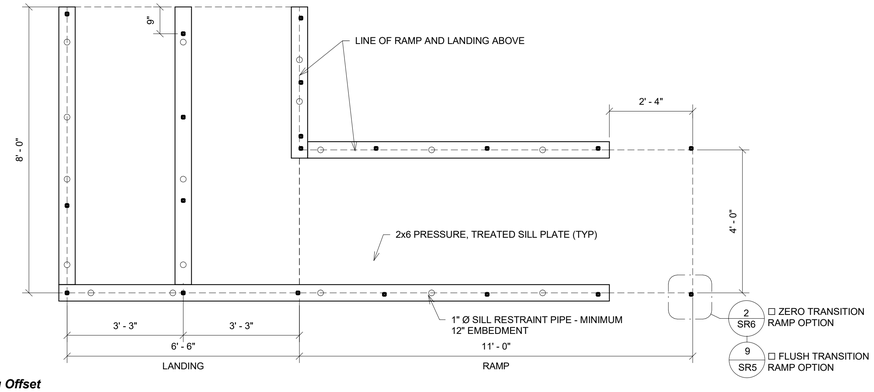
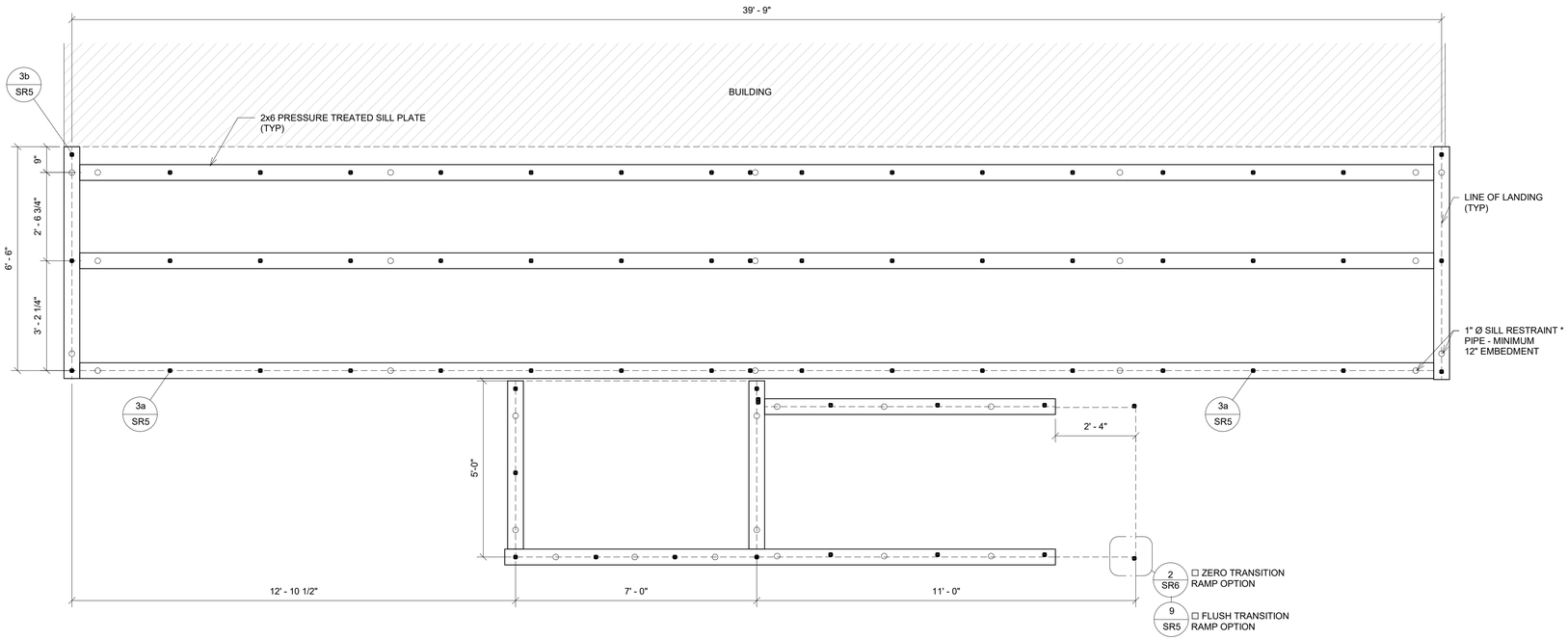


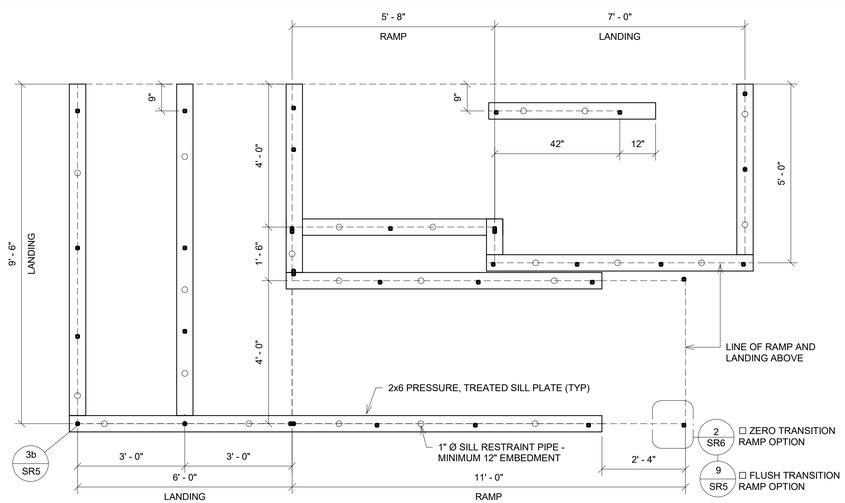
1 ***1/2" = 1'-0"***
Sill Plan For Ramp & Landing



2 ***1/2" = 1'-0"***
Sill Plan For Ramp & Landing Offset



3 ***1/2" = 1'-0"***
Platform Sill Plan For Ramp & Landing



4 ***1/2" = 1'-0"***
Sill Plan For Ramp & Landing Switchback

* "RESTRAINING PIPES / RODS SPECS"
ONE INCH DIAMETER STANDARD WEIGHT (1.315" ACTUAL 0.0) NOT DIPPED GALVANIZED PIPES OR
ONE INCH DIAMETER SOLID STEEL RODS SPACED AT NOT MORE THAN 10'-0" o/c.
ONE PIPE / ROD SHALL BE LOCATED A MAXIMUM OF TWO FEET FROM EACH CORNERIN BOTH
DIRECTIONS AND MINIMUM OF TWO PIPES / RODS PER DISCONTINUOUS FOUNDATION STRIP.
PIPES SHOULD PENETRATE INTO SOIL AND/OR PAVING A MIN. OF 12" MEASURED VERTICALLY.
PER DSA IR 16-1

PROJECT SPECIFIC STATE AGENCY APPROVAL

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STATE OF CALIFORNIA

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APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date22079

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

RAMPS PC

CLASS LEASING
PC#04-121419

SHEET TITLE

Foundation Plan

PROJECT NUMBER 22079

DRAWN BY SM

CHECKED BY rMc

DATE 12/23/2022

SHEET NO. **SR3**

SHEET OF

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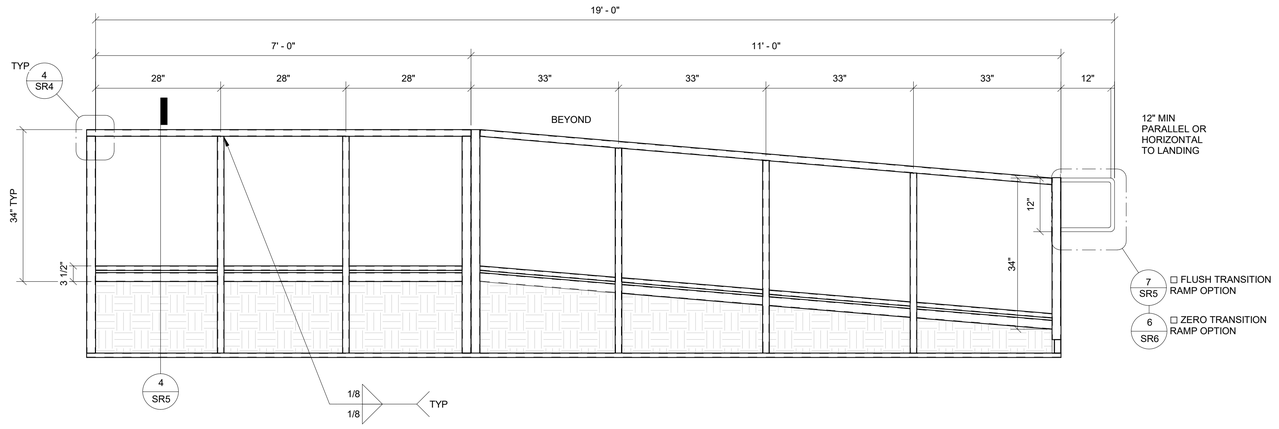
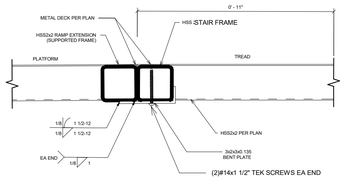
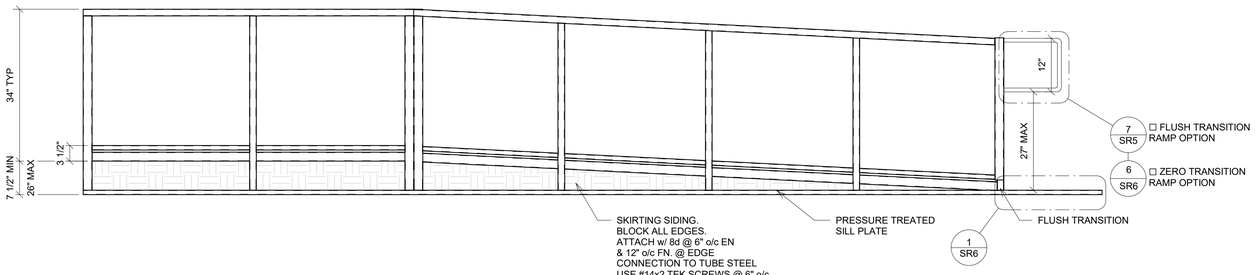


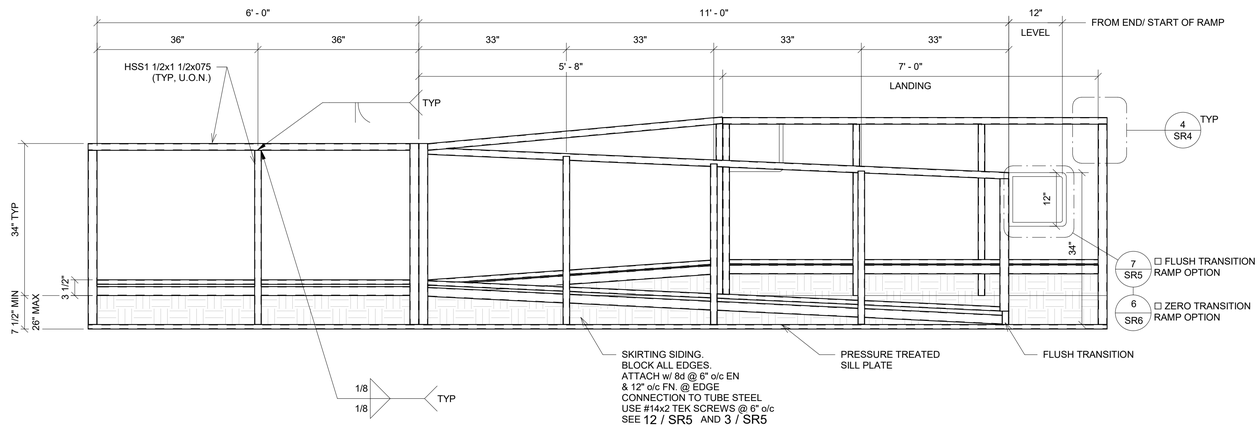
1 ***3/4" = 1'-0"***
Ramp & Landing Elevation



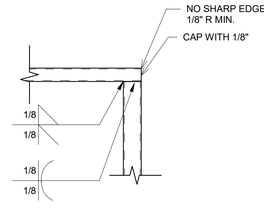
5 ***3" = 1'-0"***
Conn @ Platform



2 ***3/4" = 1'-0"***
Ramp & Landing Elevation Option X Copy 1



3 ***3/4" = 1'-0"***
Ramp & Landing Elevation Option X



4 ***1 1/2" = 1'-0"***
Ramp & Landing Elevation Option X1 - Callout 1

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
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www.rstavares.com

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FLORES
S-3385
Exp. 03/31/24
STRUCTURAL
STATE OF CALIFORNIA

02/16/24

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Revision Schedule

#	Description	Date22079

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE

RAMPS PC
CLASS LEASING
PC#04-121419

SHEET TITLE

Ramp and Landing / Stair Framing Elevation

PROJECT NUMBER 22079

DRAWN BY SM

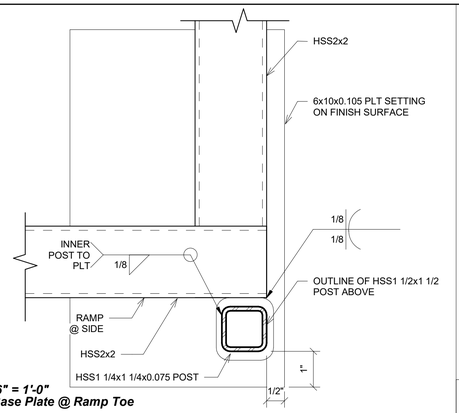
CHECKED BY rMc

DATE 12/23/2022

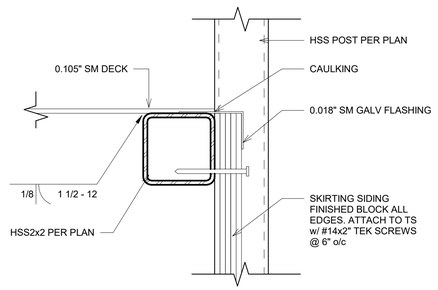
SHEET NO. SR4

SHEET OF

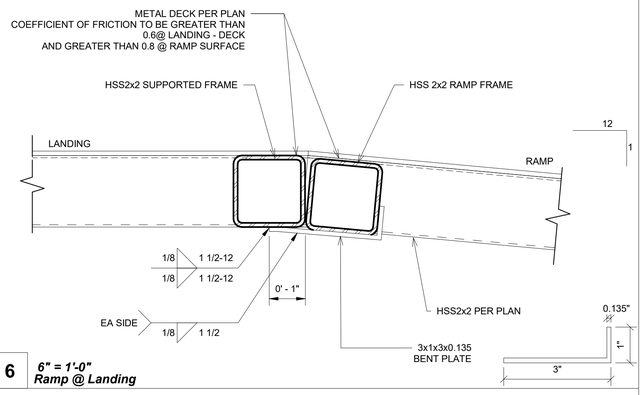
6/15/2021 7:29:27 PM M:\2020\20093 - Class Leasing, 24x40 - 120x40 2022 CBC Updates\REVIT\RST#20093 - Aries, Ramps and Stairs PC.rvt



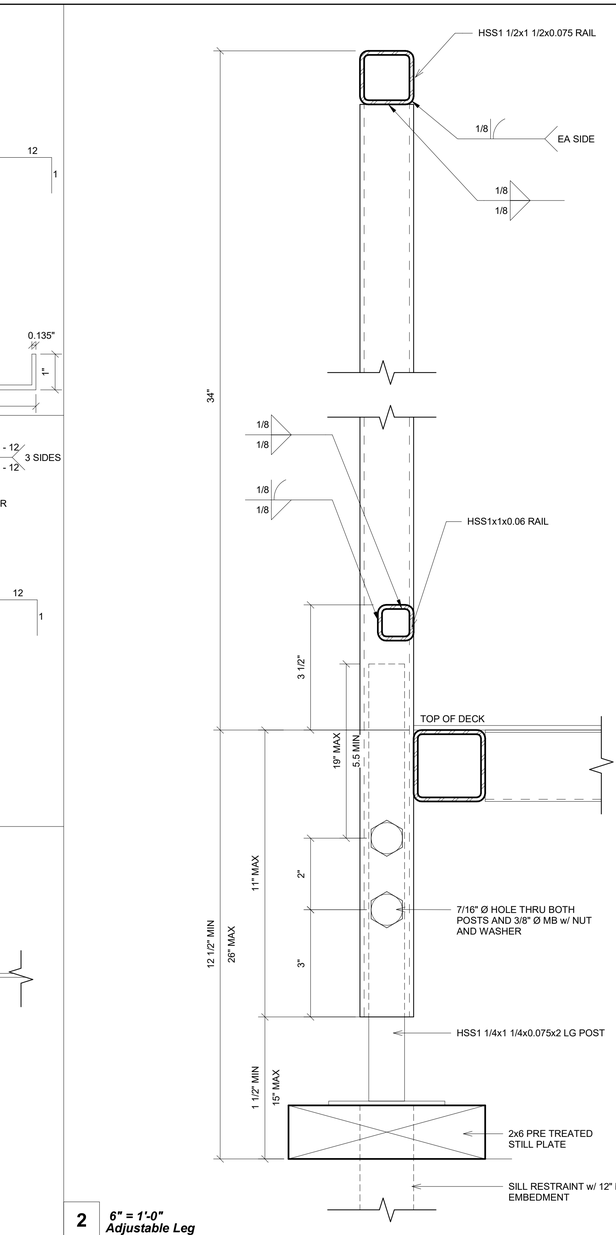
9 *6" = 1'-0"*
Base Plate @ Ramp Toe



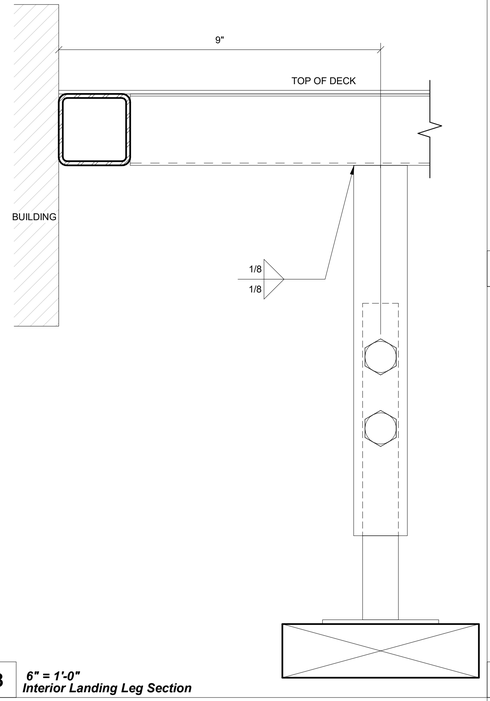
12 *6" = 1'-0"*
Skirt Flashing



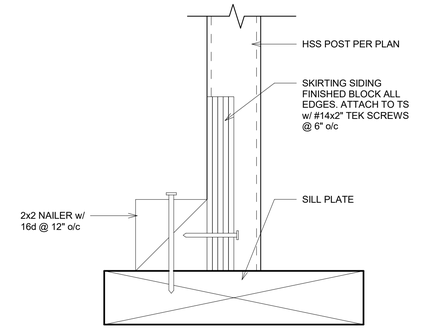
6 *6" = 1'-0"*
Ramp @ Landing



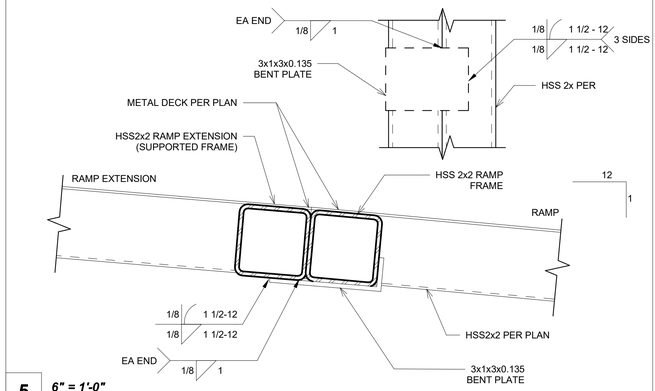
2 *6" = 1'-0"*
Adjustable Leg



8 *6" = 1'-0"*
Interior Landing Leg Section

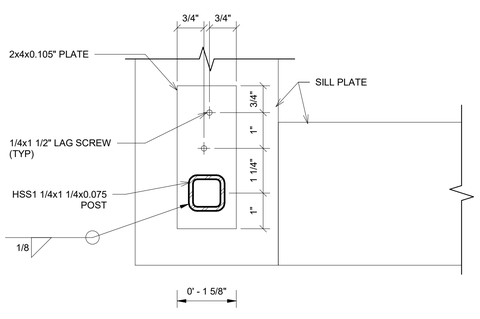


3 *6" = 1'-0"*
Skirt Flashing @ Sill Plate

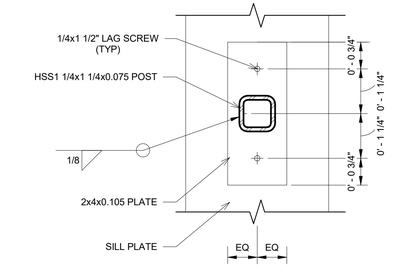


5 *6" = 1'-0"*
Ramp Extension

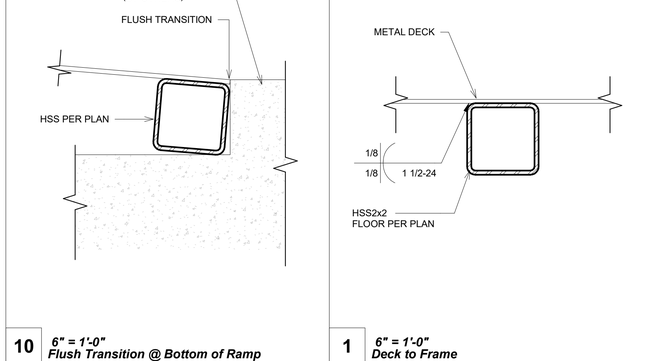
7 *3" = 1'-0"*
Extend Handrail @ Top or Bott. Ends



3b *6" = 1'-0"*
Adjustable Leg Base Plate

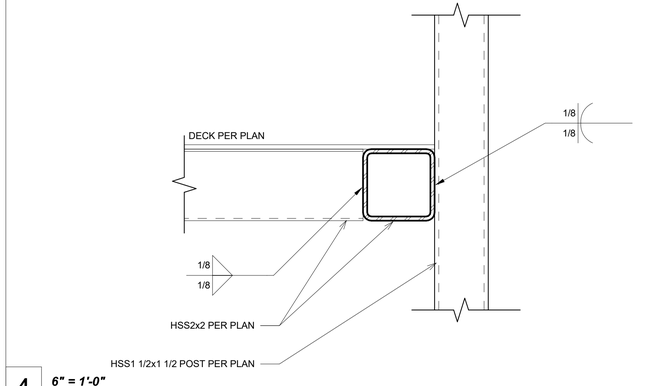


3a *6" = 1'-0"*
Adjustable Leg Plate

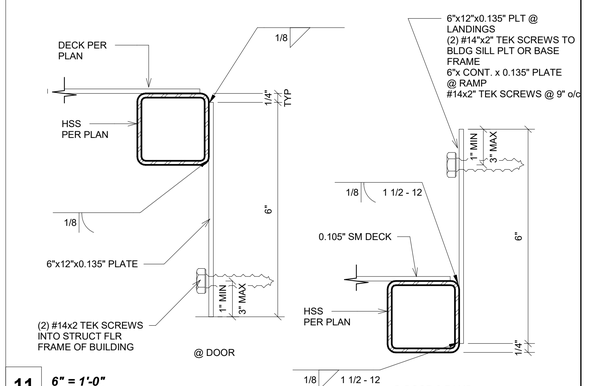


10 *6" = 1'-0"*
Flush Transition @ Bottom of Ramp

1 *6" = 1'-0"*
Deck to Frame



4 *6" = 1'-0"*
Guardrail post Attachment



11 *6" = 1'-0"*
Section @ Plate

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
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PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
MARK D. FRANCIS
S3381
Exp. 03/31/24
STRUCTURAL
STATE OF CALIFORNIA

02/16/24

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CLIENT

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1320 W. Oleander Ave. Perris CA 92571-7408
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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date22079

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
RAMPS PC
CLASS LEASING
PC#04-121419

SHEET TITLE
Ramp Details

PROJECT NUMBER
22079

DRAWN BY
SM

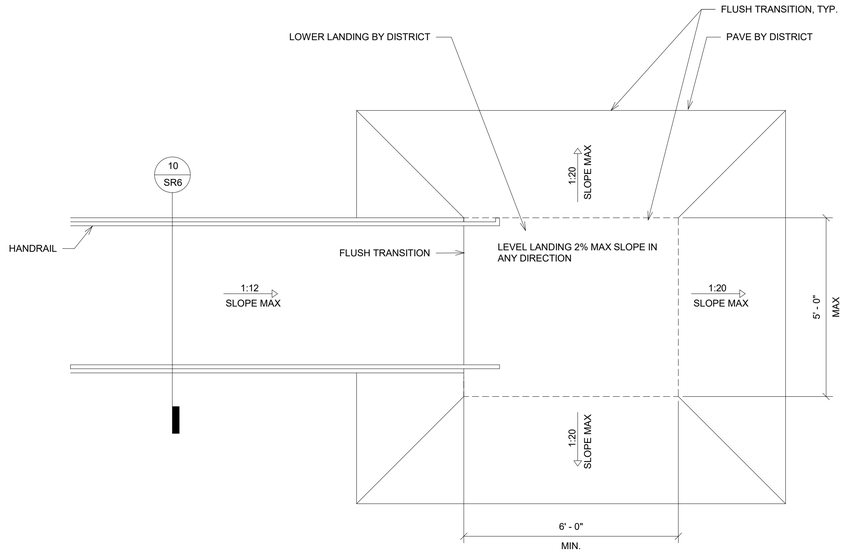
CHECKED BY
rMc

DATE
12/23/2022

SHEET NO.
SR5

SHEET OF

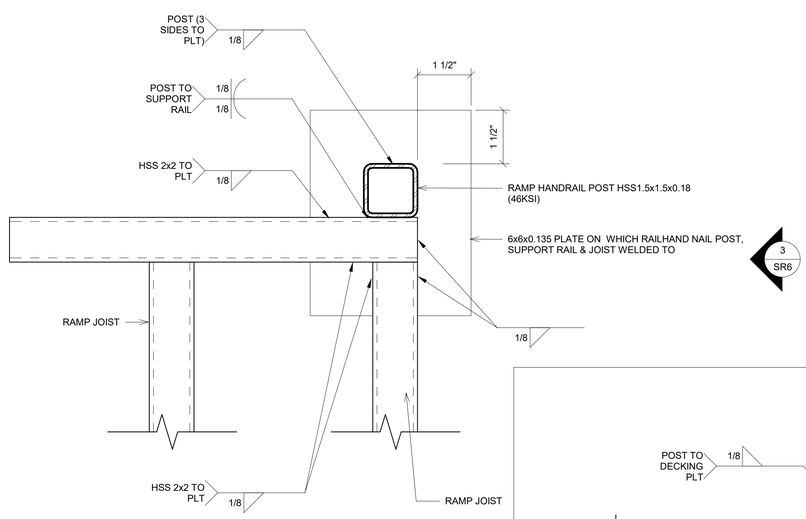
6/15/2021 7:29:28 PM M:\2020\20093 - Class Leasing, 24x40 - 120x40 2022 CBC Updates\REVIT\RST#20093 - Aries, Ramps and Stairs PC.rvt



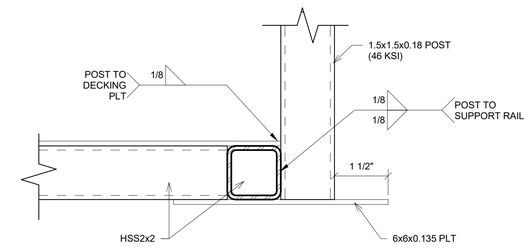
NOTE:
1. 1:20 TRANSITION OFF OF LOWER LANDING REQUIRES NO HANDRAIL.
2. TRANSITIONS EXCEEDING 1:20 BUT NOT EXCEED 1:12 REQUIRE REMOVAL OF 12" HANDRAIL EXTENSION AND ADDITIONAL HANDRAILING BY DISTRICT. (THIS CONDITION REQUIRES A SITE SPECIFIC DETAIL PROVIDED BY ARCHITECT TO DEMOSTRATE ACCESSIBLE RAMP)

LANDING TO BE DESIGNED TO NOT RETAIN STANDING WATER 1% 1% 2.083 MAX SLOPE

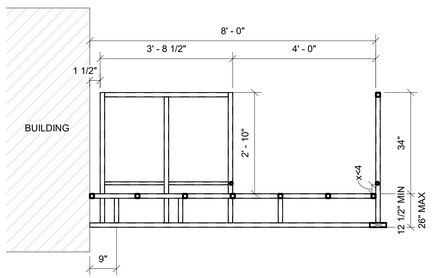
7 ***1/2" = 1'-0"***
Ramp Transition



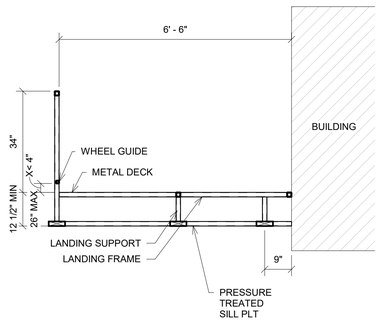
2 ***6" = 1'-0"***
Base Plt @ Ramp Toe For Zero Transition



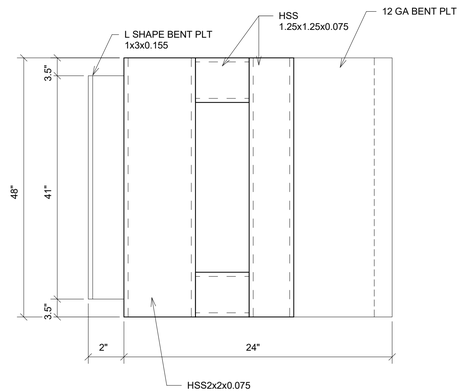
3 ***6" = 1'-0"***
Base Plt @ Ramp Toe Low Zero Side View



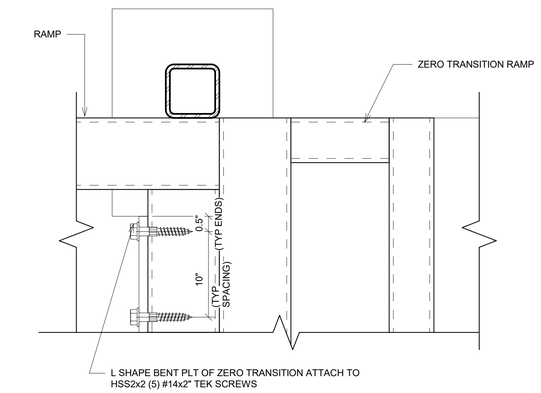
8 ***1/2" = 1'-0"***
Section @ Landing



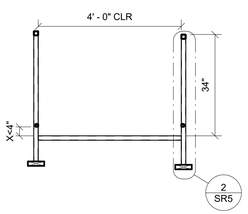
9 ***1/2" = 1'-0"***
Section @ Landing



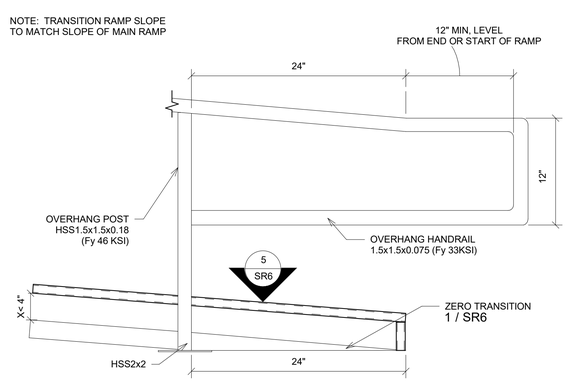
4 ***6" = 1'-0"***
Top View Ramp Zero Transition



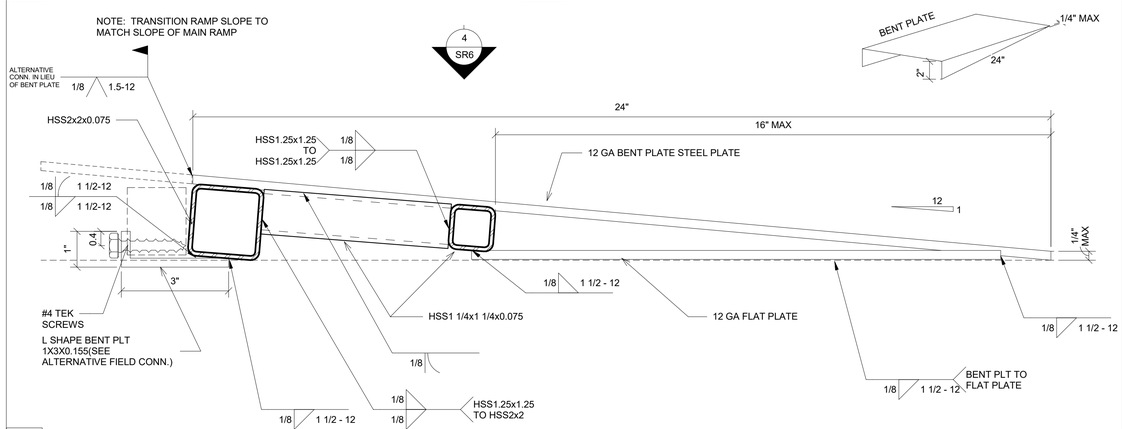
5 ***6" = 1'-0"***
Zero Transition Ramp Connection



10 ***1/2" = 1'-0"***
Section @ Ramp



6 ***1 1/2" = 1'-0"***
Extend Handrail @ Bottom End For Zero Transition Ramp



1 ***6" = 1'-0"***
Zero Transition Ramp

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
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11590 W BERNARDO COURT, SUITE 100
SAN DIEGO, CA 92127
WWW.RSTAVARES.COM

PROFESSIONAL STAMP

02/16/24

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CLIENT

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1320 W. Oleander Ave. Perris CA 92571-7408
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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date22079

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
RAMPS PC
CLASS LEASING
PC#04-121419

SHEET TITLE
Ramp Details

PROJECT NUMBER
22079

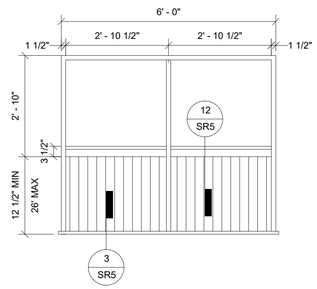
DRAWN BY
SM

CHECKED BY
rMc

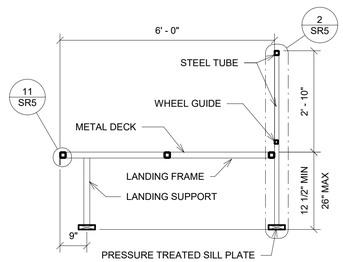
DATE
12/23/2022

SHEET NO.
SR6
SHEET OF

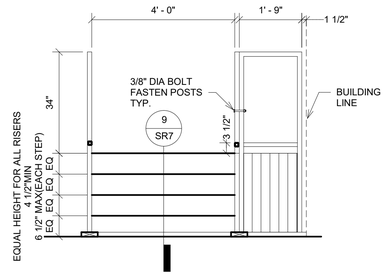
M:\2020\20093 - Class Leasing, 24x40 - 120x40 2022 CBC Updates\REVITRST#20093 - Aries, Ramps and Stairs PC.rvt
6/15/2021 7:29:30 PM



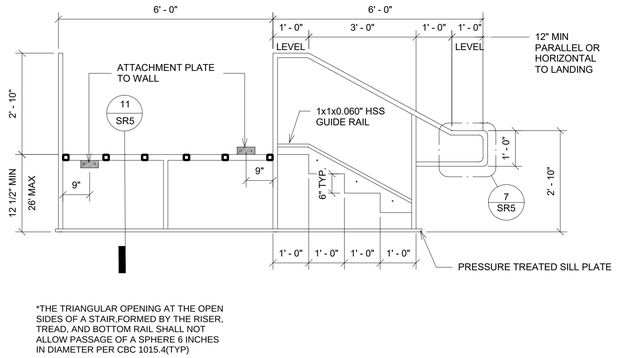
1 *1/2" = 1'-0"*
LANDING ELEVATION VIEW



2 *1/2" = 1'-0"*
LANDING SECTION

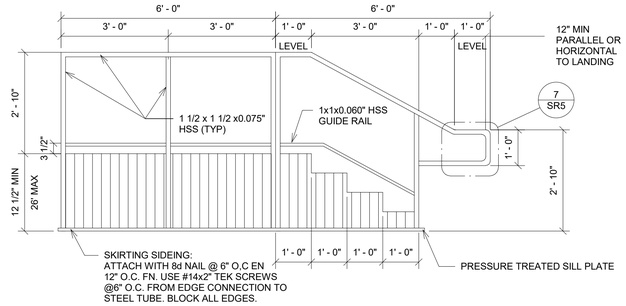


6 *1/2" = 1'-0"*
STEPS ELEVATION

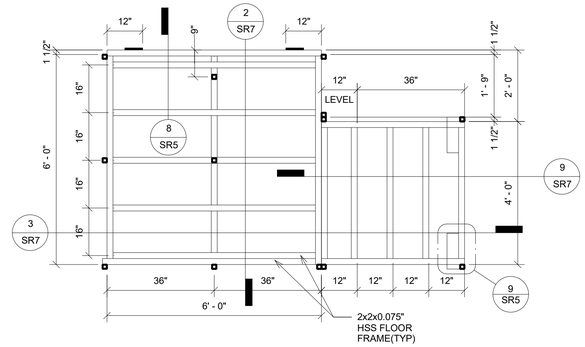


*THE TRIANGULAR OPENING AT THE OPEN SIDES OF A STAIR,FORMED BY THE RISER, TREAD, AND BOTTOM RAIL SHALL NOT ALLOW PASSAGE OF A SPHERE 6 INCHES IN DIAMETER PER CBC 1015.4(TYP)

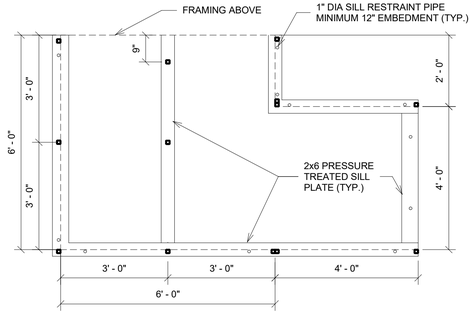
3 *1/2" = 1'-0"*
STEP AND LANDING SECTION



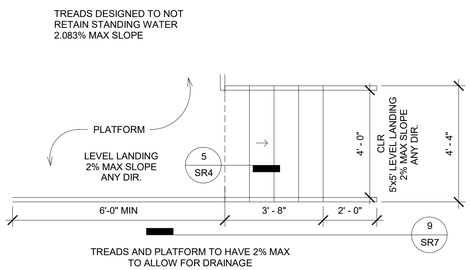
4 *1/2" = 1'-0"*
STEPS AND LANDING SECTION



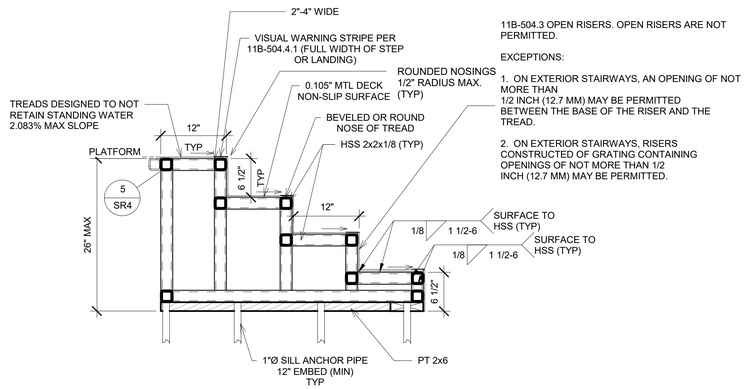
5 *1/2" = 1'-0"*
STEPS/LANDING FRAMING PLAN



7 *1/2" = 1'-0"*
SILL PLAN



8 *3/8" = 1'-0"*
Stair



9 *1" = 1'-0"*
Stair Elev

PROJECT SPECIFIC STATE AGENCY APPROVAL

R&S TAVARES ASSOCIATES
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REGISTERED PROFESSIONAL ENGINEER
MANNY D. FERNANDEZ
S338
Exp. 03/31/24
STRUCTURAL
STATE OF CALIFORNIA

02/16/24

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ORIGINAL PC STATE AGENCY APPROVAL

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-123059 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 02/20/2024

Revision Schedule

#	Description	Date
2		2207

PRE-CHECK (PC) DOCUMENT

Code: 2022 CBC

A separate project application for construction is required

PROJECT TITLE
RAMPS PC
CLASS LEASING
PC#04-121419

SHEET TITLE
Stair Conn

PROJECT NUMBER
22079

DRAWN BY
rMc

CHECKED BY
BR

DATE
12/23/2022

SHEET NO.
SR7

SHEET OF

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6/15/2021 7:29:30 PM