SOLANO CCD SWING SPACE

4000 SUISUN VALLEY RD, FAIRFIELD, CA 94534

SOLANO COMMUNITY COLLEGE DISTRICT

DSA SUBMITTAL

DSA FILE NUMBER 48- C1
DSA APP. NUMBER 02-122153

ABBREVIATIONS

&	AND	LAB.	LABORATORY
@	AT	LAM.	LAMINATE
A.B.	ANCHOR BOLT	LAV.	LAVATORY
ABV.	ABOVE	LKR.	LOCKER
A.C.	ASPHALTIC CONCRETE	LT.	LIGHT
ACT	ACOUSTIC TILE		
ADJ.	ADJUSTABLE	MAX.	MAXIMUM
A.F.F.	ABOVE FINISHED FLOOR	M.B.	MACHINE BOLT
ALUM.	ALUMINUM	MECH.	MECHANICAL
A.P.	ACCESS PANEL	MFR.	MANUFACTURER
APPROX.	APPROXIMATELY	M.H.	MANHOLE
ARCH.	ARCHITECT	MIN.	MINIMUM
		MIR.	MIRROR
BD.	BOARD	MISC.	MISCELLANEOUS
BLDG.	BUILDING	M.O.	MASONRY OPENING
BLKG.	BLOCKING	M.S.	MACHINE SCREW
BM	BEAM	MTD.	MOUNTED
B.M.	BENCH MARK	MTL.	METAL
BOT.	BOTTOM	MUL.	MULLION
BTWN	BETWEEN		
B.W.	BOTH WAYS	(N)	NEW
		N.	NORTH
CAB.	CABINET	N.I.C.	NOT IN CONTRACT
C.B.	CATCH BASIN	NO. or #	NUMBER
C.C or O.C.	CENTER TO CENTER	NOM.	NOMINAL
CEM.	CEMENT	N.T.S.	NOT TO SCALE
CER. TILE	CERAMIC TILE		
C.G.	CORNER GUARD	OBS.	OBSCURE
C.I.	CAST IRON	O.C.	ON CENTER
C.J.	CONTROL JOINT	OCC.	OCCUPANT(CY)
CLG.	CEILING	O.D.	OVERFLOW DRAIN and/or OUTSIDE DIAMETER
CLKG.	CAULKING	O.F.O.S.	OUTSIDE FACE OF STUD
CLR.	CLEAR	O.F.C.I.	OWNER FURNISHED and CONTRACTOR INSTALLED
CMU	CONCRETE MASONRY UNIT	O.H.	OPPOSITE HAND
CNTR.	COUNTER	OPNG.	OPENING
C.O.	CLEANOUT	OPP.	OPPOSITE
COL.	COLUMN		
CONC.	CONCRETE		
CONST.	CONSTRUCTION	P.A.F.	POWDER ACTUATED FASTENER
CONT.	CONTINUOUS	PL	PLATE
CONTR.	CONTRACTOR	P.L.	PROPERTY LINE
C.P.	CONCRETE PIPE	P. LAM	PLASTIC LAMINATE
CTR.	CENTER	PLAS.	PLASTER
CTSK.	COUNTER SUNK	PLYWD.	PLYWOOD
C.W.	COLD WATER	PR.	PAIR
		PTD.	PAINTED
D.A.	DISABLED ACCESS	PTN.	PARTITION
DBL	DOUBLE		
D.F.	DRINKING FOUNTAIN	Q.T.	QUARRY TILE
D.FIR	DOUGLAS FIR		
DTL.	DETAIL	R. or RAD.	RADIUS
DIA. or Ø	DIAMETER	R.C.P.	REINFORCED CONCRETE PIPE
DIM.	DIMENSION	R.D.	ROOF DRAIN
DISP.	DISPOSAL	R.E.	RIM ELEVATION
DN	DOWN	REF.	REFERENCE
DO	DITTO	REINF.	REINFORCING
DR.	DOOR	REQ'D	REQUIRED
DS.	DOWNSPOUT	R.H.M.S.	ROUND HEAD METAL SCREW
DWG.	DRAWING	R.H.W.S.	ROUND HEAD WOOD SCREW
		RM.	ROOM
(E)	EXISTING	R.O.	ROUGH OPENING
E.	EAST	RWD.	REDWOOD
EA.	EACH	R.W.L.	RAIN WATER LEADER
E.J.	EXPANSION JOINT		
ELEC.	ELECTRIC or ELECTRICAL	S	SOUTH
EL.	ELEVATION	S.A.D.	SEE ARCHITECTURAL DRAWINGS
ELEV.	ELEVATOR	S.C.	SOLID CORE
ENCL.	ENCLOSE and/or ENCLOSURE	S.C.D.	SEE CIVIL DRAWINGS
EQ.	EQUAL	SCHED.	SCHEDULE
EQUIP.	EQUIPMENT	S.E.D.	SEE ELECTRICAL DRAWINGS
E.W.	EACH WAY	S.F.	SQUARE FEET
E.W.C.	ELECTRIC WATER COOLER	SHEATH.	SHEATHING
EX.	EXPANSION	SHT.	SHEET
EXP.	EXPOSED	SIM.	SIMILAR
EXT.	EXTERIOR	S.L.D.	SEE LANDSCAPE DRAWINGS
		S.M.	SHEET METAL
F.A.	FIRE ALARM	S.M.D.	SEE MECHANICAL DRAWINGS
F.D.	FLOOR DRAIN	S.M.S.	SHEET METAL SCREW
FDN.	FOUNDATION	S.O.V.	SHUT OFF VALVE
F.E.	SEE FIRE EXTINGUISHER	S.P.D.	SEE PLUMBING DRAWINGS
F.E.C.	FIRE EXTINGUISHER CABINET	SPEC.	SPECIFICATIONS
F.H.	FIRE HYDRANT	SQ. or ø	SQUARE
F.H.C.	FIRE HOSE CABINET	S.S.	STAINLESS STEEL
F.H.M.S.	FLAT HEAD SHEET METAL SCREW	S.S.D.	SEE STRUCTURAL DRAWINGS
F.H.W.S.	FLAT HEAD WOOD SCREW	STAG.	STAGGERED
FIN.	FINISH	STD.	STANDARD
FL. or FLR.	FLOOR	STL.	STEEL
F.O.C.	FACE OF CONCRETE	STOR.	STORAGE
F.O.F.	FACE OF FINISH	STRUCT.	STRUCTURAL
F.O.M.	FACE OF MASONRY	S.T.S.M.S.	SELF TAPPING SHEET METAL SCREW
F.O.S.	FACE OF STUD	SUSP.	SUSPENDED
F.S.	FINISH SLAB		
FT.	FOOT OR FEET	T.& G.	TONGUE & GROOVE
FTG.	FOOTING	TEL.	TELEPHONE
FURR.	FURRING	TERR.	TERRAZZO
		THRES.	THRESHOLD
GA.	GAUGE	T.J.	TOOLED JOINT
GALV.	GALVANIZED	T.O.B.	TOP OF BEAM
G.B.	GRAB BAR	T.O.C.	TOP OF CURB or CONCRETE
G.I.	GALVANIZED IRON	T.O.S.	TOP OF STEEL or SLAB
GL.	GLASS	T.O.W.	TOP OF WALL
GLU-LAM	GLUE-LAMINATED	TYP.	TYPICAL
GND.	GROUND		
GR.	GRADE	U.O.N.	UNLESS OTHERWISE NOTED
GYP.	GYPSUM		
		VERT.	VERTICAL
H.B.	HOSE BIBB	V.C.P.	VITRIFIED CLAY PIPE
H.C.	HOLLOW CORE	V.C.T.	VINYL COMPOSITION TILE
HDWD.	HARDWOOD	V.G.	VERTICAL GRAIN
HDWR.	HARDWARE	V.I.F.	VERIFY IN FIELD
H.M.	HOLLOW METAL	V.T.R.	VENT THROUGH ROOF
HORIZ.	HORIZONTAL	V.W.C.	VINYL WALL COVERING
HR.	HOUR		
HT.	HEIGHT	W	WEST
		W/	WITH
I.D.	INSIDE DIAMETER	W.C.	WATER CLOSET
INSUL.	INSULATION	WD.	WOOD
INT.	INTERIOR	W.H.	WATER HEATER
INV.	INVERT	W/O	WITHOUT
		W.O.	WHERE OCCURS
JAN.	JANITOR	WP.	WATERPROOF / WEATHERPROOF
JT	JOINT	W. PT.	WORKING POINT
		W.R.	WATER RESISTANT
K.D.	KILN DRIED	WT.	WEIGHT

APPLICABLE CODES

1. 2022 BUILDING STANDARDS ADMINISTRATION CODE (PART 1, TITLE 24, CCR)
2. 2022 CALIFORNIA BUILDING CODE (PART 2, VOLUMES 1 AND 2, TITLE 24, CCR)
3. 2022 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR)
4. 2022 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR)
5. 2022 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR)
6. 2022 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)
7. 2022 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)
8. 2022 CALIFORNIA EXISTING BUILDING CODE (PART 10, TITLE 24, CCR)
9. 2022 CALGREEN BUILDING STANDARDS CODE (PART 11, TITLE 24, CCR)
10. 2022 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)
11. TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
12. TITLE 24, CALIFORNIA BUILDING AND FIRE CODE (PARTS 1-2 INCLUSIVE)

BOARD OF TRUSTEES

SARAH E. CHAPMAN PH.D.	(PRESIDENT)	**SUPERINTENDANT/ PRESIDENT**
KARIMAH KARAH, J.D.	(VICE PRESIDENT)	DR. CELIA ESPOSITO-NOY
CELIA ESPOSITO-NOY, ED. D.	(SECRETARY)	
QUINTEN R. VOYCE	(MEMBER)	
MICHAEL A. MARTIN	(MEMBER)	
ROSEMARY THURSTON	(MEMBER)	
A. MARIE YOUNG	(MEMBER)	
DENIS HONEYCHURCH, J.D.	(MEMBER)	
ASHLEY TIGUE	(STUDENT TRUSTEE)	

CONSULTANTS

CIVIL
CARROLL ENGINEERING INC.
1101 SOUTH WINCHESTER BLVD.
SUITE H184 SAN JOSE, CA 95128
(408)261-9800

ELECTRICAL - FIRE ALARM
EDGE ELECTRICAL CONSULTING
400 R STREET, SUITE 333,
SACRAMENTO, CA 95811
(916)256-2460

MODULAR COMPANY
MOBILE MODULAR
5700 LAS POSITAS ROAD,
LIVERMORE CA 94551
(925)247-3414

Local Data for wind and Seismic

Wind Data
Wind speed: 93
Wind exposure category : C
Wind risk category II

Seismic Data
Seismic Risk Category: II
Seismic Importance Factor: 1.0
Mapped spectral response acceleration Parameters: S_s 1.516 S_1 0.6
Site class D
Design Spectral Response Acceleration Parameters: S_{DS} 1.011 S_{D1} N/A
Seismic design category D

ADMINISTRATIVE REQUIREMENTS

1. A COPY OF PART 1 to 5 CCR SHALL BE KEPT ON SITE AT ALL TIMES.
2. ALL CONSTRUCTION CHANGE DOCUMENTS AND ADDENDA TO BE SIGNED BY THE ARCHITECT, THE OWNER, AND APPROVED BY DSA. CONSTRUCTION CHANGE DOCUMENTS ARE NOT VALID UNTIL APPROVED BY DSA PER SECTION 4-338.
3. ALL TESTS TO CONFORM TO THE REQUIREMENTS OF SECTION 4-335.
4. ALL WORK SHALL CONFORM TO 2022 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
5. TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH SECTION 4-335.
6. DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO PLACEMENT OF CONCRETE PER SECTION 4-331.
7. INSPECTOR SHALL BE APPROVED BY DSA, MIN CLASS 3 DSA PROJECT INSPECTOR IS REQUIRED. INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-333(b). THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-342.
8. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
9. SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH 4-334.
10. CONTRACTOR, INSPECTOR, ARCHITECT, AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS (FORM 6) IN ACCORDANCE WITH SECTION 4-336 AND 4-343.
11. THE ARCHITECT AND THE STRUCTURAL ENGINEERS SHALL PERFORM THEIR DUTIES IN ACCORDANCE WITH SECTIONS 4-333(a) AND 4-341.
12. 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.
13. 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.
14. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
15. SUBSTITIONS AFFECTING DSA REGULATED ITEMS SHALL BE CONSIDERED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDUM, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION PER DSA IR A-6 AND SECTION 338(C) PART 1, TITLE 24 CCR.
16. THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH SECTION 4-343.
17. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR, SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR).
18. DSA IS NOT SUBJECT TO ARBITRATION.

GENERAL NOTES

1. ITEMS OF A CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL, OR ELECTRICAL NATURE MAY NOT APPEAR ON THE ARCHITECTURAL DRAWINGS. SEE APPROPRIATE DRAWINGS FOR THESE ITEMS.
2. DIVISION OF THE STATE ARCHITECT (DSA) APPROVAL OF THIS APPLICATION DOES NOT INCLUDE FUTURE OR N.I.C. ITEMS.
3. ALL DEFERRED APPROVAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND THE APPROPRIATE CONSULTING ENGINEER FOR REVIEW & APPROVAL PRIOR TO SUBMITTING TO DSA FOR CHECKING & APPROVAL.
4. THE FIRE SUPPRESSION SYSTEM, I.E. AUTOMATIC SPRINKLERS, HOOD-DUCT SYSTEM, WET STANDPIPES, AND HYDRANTS SHALL NOT BE INSTALLED UNTIL SHOP DRAWINGS HAVE BEEN APPROVED BY THE FIRE & LIFE SAFETY SECTION AT DSA.
5. THE FIRE PROTECTION SIGNALING SYSTEM SHALL NOT BE INSTALLED UNTIL SHOP DRAWINGS, INCLUDING FIRE MARSHAL LISTING NUMBER FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN SUBMITTED AND APPROVED BY THE STATE FIRE MARSHAL AT DSA.
6. FOOD HANDLING FACILITIES SHALL COMPLY WITH ALL LOCAL HEALTH DEPARTMENT REQUIREMENTS & CALIFORNIA UNIFORM RETAIL FOOD FACILITIES LAW.
7. PRIOR TO BIDDING, THE GENERAL CONTRACTOR SHALL VISIT & INSPECT THE SITE TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AFFECTING THE NEW WORK. THE GENERAL CONTRACTOR SHALL NOT DISPUTE, COMPLAIN, OR ASSERT THAT THERE IS ANY MISUNDERSTANDING IN REGARDS TO LOCATION, EXTENT, NATURE, OR AMOUNT OF WORK TO BE PERFORMED UNDER THIS CONTRACT DUE TO THE CONTRACTOR'S FAILURE TO INSPECT THE SITE AND/OR FAILURE TO INSPECT THE CONTRACT DOCUMENTS.
8. THE GENERAL CONTRACTOR & SUBCONTRACTORS ARE RESPONSIBLE FOR LOCATING & VERIFYING ALL EXISTING UNDERGROUND UTILITIES IN ALL AREAS OF THE NEW WORK PRIOR TO COMMENCEMENT OF EXCAVATION. EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE ROUTING LOCATIONS AS BEST DETERMINED FROM EXISTING DRAWINGS & BY THE SCHOOL DISTRICT, BUT SHOULD NOT BE CONSTRUED TO REPRESENT ALL EXISTING UTILITIES.
9. ANY ALTERATIONS OF EXISTING FACILITIES TO ACCOMMODATE THE INSTALLATION OF NEW WORK SHALL BE REVIEWED BY THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
10. ALL EXISTING FINISHES OR MATERIALS DAMAGED OR DEMOLISHED DUE TO NEW CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL STATE OR REPLACED WITH NEW MATERIALS FINISHED TO MATCH EXISTING.
11. CONTRACTOR SHALL COORDINATE ALL WORK TO AVOID DISRUPTION OF STUDENTS OR TEACHERS DURING SCHOOL HOURS. ANY DISRUPTION OF POWER, TELEPHONE, OR HVAC SYSTEMS MUST BE COORDINATED AND APPROVED BY THE DISTRICT REPRESENTATIVE PRIOR TO ANY WORK COMMENCING.
12. COMPLIANCE WITH CFC CHAPTER 33 (FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION) AND CBC CHAPTER 33 (SAFEGUARDS DURING CONSTRUCTION) WILL BE ENFORCED.
13. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

REFERENCE STANDARDS

PARTIAL LIST OF APPLICABLE STANDARDS (AS REFERENCED IN 2022 CBC - CHAPTER 35 & CFC):

ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36)		2010 EDITION
NFPA 17	STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS	2021 EDITION
NFPA 17-A	STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS	2021 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE	2022 EDITION
NFPA 80	STANDARD FOR FIRE DOOR AND OTHER OPENING PROTECTIVES	2019 EDITION
NFPA 90A	STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATION SYSTEMS	2024 EDITION
NFPA 101	LIFE SAFETY CODE	2021 EDITION
NFPA 110	STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS	2019 EDITION
NFPA 2001	STANDARD ON CLEAN AGENT FIRE EXTINGUISHER SYSTEMS	2018 EDITION

SYMBOL LEGEND

REFER TO ARCHITECTURAL FLOOR PLAN SHEETS AND CONSULTANT DRAWINGS FOR ADDITIONAL SYMBOLS AND REFERENCE DESIGNATIONS

DIMENSION REFERENCE

10" FACE OF OBJECT

10" CENTER LINE OF OBJECT

MATERIALS REFERENCE

EARTH
GRAVEL / ROCK
CONCRETE
CONCRETE BLOCK (CMU)
SAND, GROUT, OR PLASTER
STEEL
PLYWOOD
WOOD, CONTINUOUS MEMBER
WOOD, BLOCKING
WOOD, FINISH GRADE

TAGS AND MARKERS

0 PLAN REFERECE GRID

STRUCTURAL GRID LINE

1 REVISION MARKER

Room name / 101 / 150 SF ROOM LABEL, ROOM NAME, ROOM NUMBER

1 WALL TYPE MARKER

101a DOOR ID, DOOR DESIGNATION, ROOM NUMBER

℄ CENTER LINE

XX-1 FINISH TAG

XX-1 FLOOR FINISH TAG

XX.XXX KEYNOTE ITEMS TO BE PROVIDED NEW, UON.

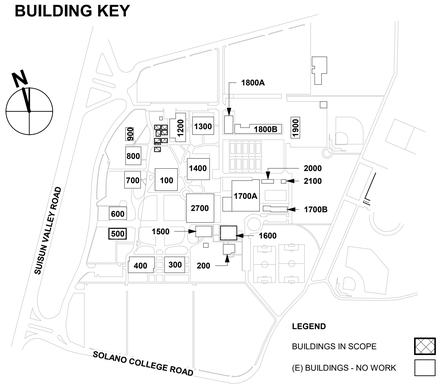
SECTION REFERENCE

1 / A12.08 SIM — SECTION NUMBER, REFERENCE LABEL WHERE OCCURES, SHEET NUMBER

DETAIL REFERENCE

1 / A12.08 SIM — DETAIL NUMBER, REFERENCE LABEL WHERE OCCURES, SHEET NUMBER

BUILDING KEY



LOCATION MAP

SCOPE OF WORK

8 TEMPORARY MODULAR BUILDINGS, SITE WORK AND ASSOCIATED UTILITIES.

DEFERRED SCOPE

NONE

"If any condition is discovered which, if left uncorrected, would make the building non-compliant with the requirements of the edition of the CBC in force at the time of **original** construction, the condition must be corrected in accordance with **current** code requirements. A construction change document, or a separate set of plans and specifications detailing and specifying the required repair work shall be submitted to and approved by DSA before proceeding with the repair work."

DRAWING INDEX

	T1	TITLE SHEET
	CIVIL	
	C1.1	DEMOLITION PLAN
*	C2.1	GRADING & DRAINAGE PLAN
*	C3.1	UNDERGROUND UTILITIES PLAN
	C4.1	NOTES, LEGEND & DETAILS
	C4.2	UNDERGROUND UTILITIES DETAILS
	C5.1	HORIZONTAL CONTROL PLAN
	C6.1	EROSION CONTROL PLAN
	ARCHITECTURAL	
	A0.01	FIRE DEPARTMENT ACCESS PLAN
	A0.03	EXIT ANALYSIS AND BUILDING CODE ANALYSIS
	A0.02	NEW SITE PLAN
	A1.01	ENLARGED DEMO SITE PLAN
	A1.02	ENLARGED NEW SITE PLAN
	A1.05	SITE DETAILS
	A3.01	NEW FLOOR PLAN
	A10.01	SIGNAGE DISTRICT STANDARDS
	MODULAR MANUFACTURER DRAWINGS (DSA STOCKPILE #02-121414)	
	TS	TITLE SHEET
	TS2	SHEET INDEX
	D1	FORM DSA -103
	N1.0	GENERAL NOTES & SPECIFICATIONS
	N1.0A	BELOW GRADE CONCRETE MIX DESIGN REQUIREMENTS
	N2.0	GENERAL NOTES & SPECIFICATIONS
	N3.0	TYPICAL SCHEDULES: DOORS, WINDOWS, & FINISHES
	N4.0	ACCESSIBILITY STANDARDS AND DETAILS
	N5.0	FLOOR PLAN CONFIGURATION
	EN.1	ENERGY CALCULATIONS
	EN.2	ENERGY CALCULATIONS
	EN.3	ENERGY CALCULATIONS
	EN.4	ENERGY CALCULATIONS
	EN.5	ENERGY CALCULATIONS
	EN.6	ENERGY CALCULATIONS
	EN.7	ENERGY CALCULATIONS
	EN.8	ENERGY CALCULATIONS
	EN.9	ENERGY CALCULATIONS
	EN.10	ENERGY CALCULATIONS
	A1.0A	TYPICAL FLOOR PLAN
	A1.0B	TYPICAL FLOOR PLAN
	A1.2	RESTROOM FLOOR PLAN OPTIONS
	A2.0	TYPICAL ROOF PLAN METAL STANDING SEAM
	A2.2	TYPICAL ROOF DETAILS METAL (L STANDING SEAM ROOFING
	A4.0	INTERIOR ELEVATIONS YPICAL CLASSROOM
	A5.0A	TYPICAL EXTERIOR ELEVATIONS - DURA TEMP 303 OPTION
	A5.0B	TYPICAL EXTERIOR ELEVATIONS - DURA TEMP 303 OPTION
	A5.1	TYP. ARHICTECTURAL DETAILS - DURA TEMP 303 SIDING OPTION
	A6.0	TYPICAL LONGITUDINAL AND TRANSVERSE BUILDING SECTIONS
*	A7.1	MISCELLANEOUS ARCHITECTURAL DEATILS
	S0.0	LIGHT GAUGE STEEL MEMBER PROPERTIES
	S2.1	WOOD FOUNDATION PLAN 50 PSF LIVE LOAD + 15 PSF PARTITION LOAD
	S2.4	WOOD FOUNDATION DETAILS
	S3.0	FLOOR FRAMING PLAN & DETAILS FOR PLYWOOD FLOOR
	S4.0	ROOF FRAMING PLAN & DETAILS
	S4.2	ROOF FRAMING DETAILS
	S5.0	MOMENT FRAME ELEVATIONS & DETAILS
	S5.1	MOMENT FRAME CONNECTION DETAILS
	S8.0	WALL FRAMING ELEVATIONS & SCHEDULES - WOOD STUDS
	S8.1	WALL FRAMING DETAILS - WOOD STUDS
	S10.0	TYPICAL RAMP PLANS & NOTES
	S10.1	RAMP DETAILS
	M1.0A	TYPICAL REFLECTED CEILING PLAN
	M1.0B	TYPICAL REFLECTED CEILING PLAN
	M1.1A	TYPICAL MECHANICAL PLAN
	M1.1B	TYPICAL MECHANICAL PLAN
	M1.4	MECHANICAL AND CEILING DETAILS
	M1.5	MECHANICAL & CEILING DETAILS
	M1.7	CEILING & MECHANICAL NOTES & SCHEDULES
	E1.0A	ELECTRICAL PLAN A
	E1.0B	TYPICAL ELECTICAL PLAN
	E1.2	ELECTRICAL NOTES & DETAILS
	P1.0	RESTROOM OPTIONS PLUMBING PLANS & FIXTURE SCHEDULE
	P2.0	PLUMBING DETAILS & ACCESSIBLE DETAILS
	P3.0	PLUMBING ISOMETRICS DRAWINGS
	QUICK DECK MANUFACTURER DRAWINGS (DSA APPROVED DWGS #04-122493)	
	S1	GENERAL NOTES AND INFORMATION
	S2	PROFILE DETAILS
	S3	PROFILE DETAILS
	S4	PLANS, TYPICAL RAMP/LANDING CONFIGUATIONS AND ELEVATIONS (LANDING HEIGHT OVER 30')
	S5	PLANS, TYPICAL RAMP/LANDING CONFIGUATIONS AND ELEVATIONS (LANDING HEIGH 30' OR LESS
	S6	PLANS AND TYPICAL RAMP/LANDING CONFIGURATION OPTIONS
	S7	PLANS AND TYPICAL RAMP/LANDING CONFIGURATION OPTIONS
	S8	PLANS AND TYPICAL RAMP/LANDING CONFIGURATION OPTIONS
	S9	RAMP AND HANGER PLANS AND DECK DETAILS
	S10	RAMP AND LANDING DETAILS
	S11	WEDGE, HANGER AND RAMP ASSEMBLY PLANS AND DETAILS
	S12	LEG AND BRACING DETAILS
	S13	LEG AND BRACING DETAILS
	S14	GUARDRAIL AND HANDRAIL DETAILS
	S15	GUARDRAIL AND HANDRAIL DETAILS
	S16	GUARDRAIL AND HANDRAIL DETAILS
	S17	STAIR DETAILS
	S18	BASE PLATE CONNECTION DETAILS FOR WOOD SILL PLATE
	S19	BASE PLATE CONNECTION DETAILS FOR CONCRETE AND ASPHALT
	S20	CONNECTION TO BUILDING, LANDING EXTENTION, BOTTOM LANDING & MISC. DETAILS
	ELECTRICAL	
	E0.01	ELECTRICAL COVER SHEET
	E0.02	ELECTRICAL NOTES
	E1.01	ELECTRICAL SITE PLAN
	E1.02	SIGNAL SITE PLAN
	E1.11	ONE LINE DIAGRAM
	E2.01	SIGNAL FLOOR PLAN
	E2.02	FIRE ALARM FLOOR PLAN
	E3.01	ELECTRICAL DETAILS
	E3.02	ELECTRICAL DETAILS
	E4.01	FIRE ALARM CALCULATIONS

TOTAL SHEET COUNT: 152

* These drawings, and/or specifications, and/or calculations for the items listed above 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.
  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))

PRINCIPAL IN CHARGE — **DATE -** 03-06-24

C-27833 — **CALIFORNIA LICENSE NUMBER** — **EXPIRATION DATE** 11-30-25

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

aedis architects
www.aedisarchitects.com
333 W Santa Clara St # 900
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT
SOLANO CCD SWING SPACE
SOLANO COMMUNITY COLLEGE DISTRICT

CONSULTANT

STAMP
LICENSED ARCHITECT JOSEPH A. DIS NO. C-27833 RENEWAL 11/30/25 STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 48- C1
APPL # 02-122153

REVISIONS

No.	Description	Date
△		

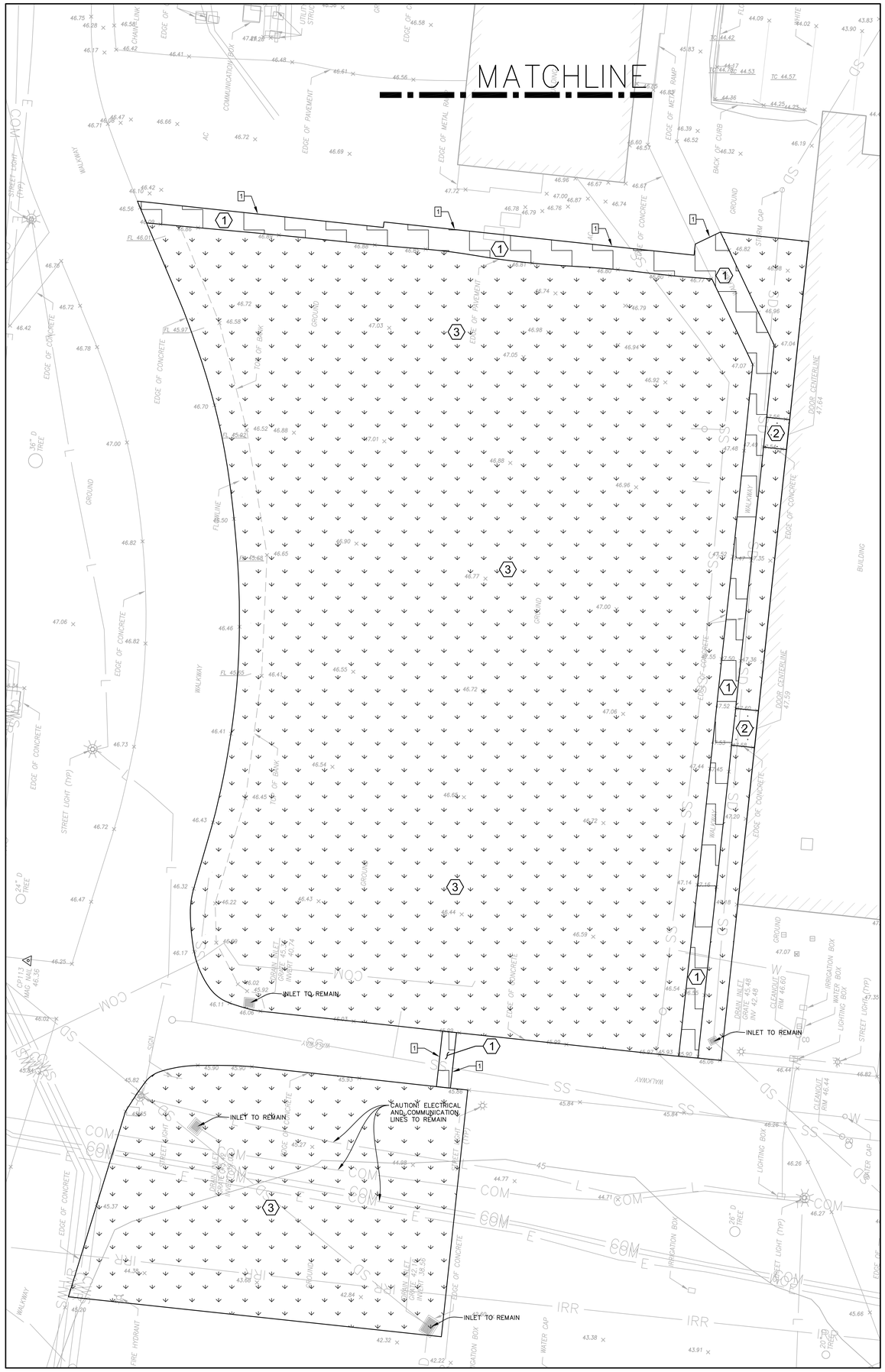
MILESTONES

SD	12.13.2023
DD	01.17.2024
50% CD	02.09.2024
90% CD	02.21.2024
DSA SUB	03.06.2024

SHEET
TITLE SHEET

DATE 03/06/24
JOB # 2023052
SHEET # T1

2/27/2024 1:06:40 PM



LEGEND

- TREE TO REMAIN – PROTECT FROM DAMAGE. SEE LANDSCAPE SPECIFICATIONS AND DRAWINGS FOR TREE PROTECTION NOTES
- X — TREE TO BE REMOVED REMOVE ALL ROOTS
- 1 — ASPHALT PAVING & AGGREGATE BASE ROCK TO BE REMOVED, REMOVE HEADER BOARD TYP
- 2 — CONCRETE TO BE REMOVED, REMOVE AGGREGATE BASE
- 3 — GRUB OUT ALL VEGETATION/ REMOVE BARK OR WOOD CHIPS. REMOVE ANY IRRIGATION LINES OR VALVES. REMOVE GRAVEL

[1] SAWCUT ASPHALT OR REMOVE CONCRETE TO NEAREST CONTROL JOINT

N

10 0 10 20

(IN FEET)
1 inch = 10 ft.
GRAPHIC SCALE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

aedis architects
www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT
SOLANO CCD SWING SPACE

SOLANO COMMUNITY COLLEGE

SOLANO COMMUNITY COLLEGE DISTRICT

CONSULTANT
CARROLL ENGINEERING
surveying and planning
5101 E. McKINSTER B/G.
SUITE 101
TEL: 408-345-9328
FAX: 408-345-9329
E-MAIL: Robert@carroll-engineering.com

STAMP
REGISTERED PROFESSIONAL ENGINEER
MATHEW PAUL MARIUS
No. C 68770
Exp. 09/30/25
STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 48-C1
APPL # 02-122153

REVISIONS

No.	Description	Date
△		

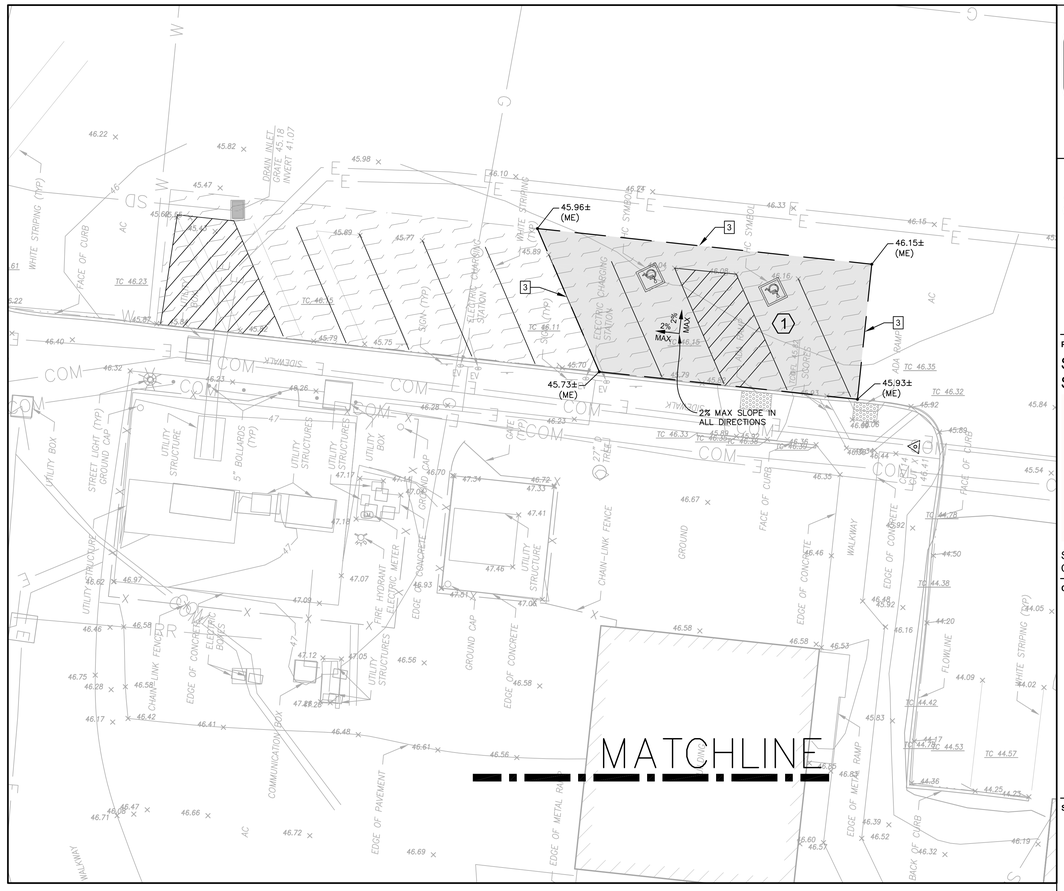
MILESTONES

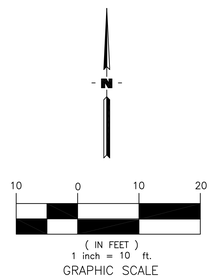
SD	12.13.2023
DD	01.17.2024
50% CD	02.09.2024
90% CD	02.21.2024
DSA SUB	03.06.2024

SHEET
DEMOLITION PLAN

DATE 03/06/24
JOB # 2023052 **CEI #** 3061A
SHEET # C1.1

M:\3061 – Solano CCD Standards Update_DWG\3061A_C1.1_DEMO.dwg 3-06-24 01:20:56 PM MilanKC





GRADING CONSTRUCTION DETAIL REFERENCES , SEE SHEET C4.1

1. AC PAVEMENT SECTION PER DETAIL 1 / C4.1
2. CONCRETE PAVING SECTION PER DETAIL 2 / C4.1
3. HEADERBOARD PER DETAIL 3 / C4.1
4. COMPACTED AGGREGATE BASE PAD PER DETAIL 4 / C4.1

GRADING PLAN NOTES:

1. 6' x 5' RAMP AREA, 2% MAX SLOPE IN ALL DIRECTIONS
2. ASPHALT CONFORM RAMP, TYP., S.A.D.
3. SAWCUT AND/OR CONFORM TO (E) ASPHALT, THE TRANSITION SHALL BE FLUSH.
4. CONFORM TO (E) CONCRETE AT NEAREST CONTROL JOINT. THE TRANSITION SHALL BE FLUSH.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

aedis architects
www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT
SOLANO CCD SWING SPACE

SOLANO COMMUNITY COLLEGE

SOLANO COMMUNITY COLLEGE DISTRICT

CONSULTANT

CARROLL ENGINEERING
5301 E. McKINLEY AVE.
FRESNO, CA 93727
TEL: 559-251-8136
FAX: 559-251-8195
E-MAIL: Scott@carroll-engineering.com

STAMP

REGISTERED PROFESSIONAL ENGINEER
MATTHEW PAUL MARIUS
No. C 68770
Exp. 09/30/25
STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 48-C1
APPL # 02-122153

REVISIONS

No.	Description	Date
△		

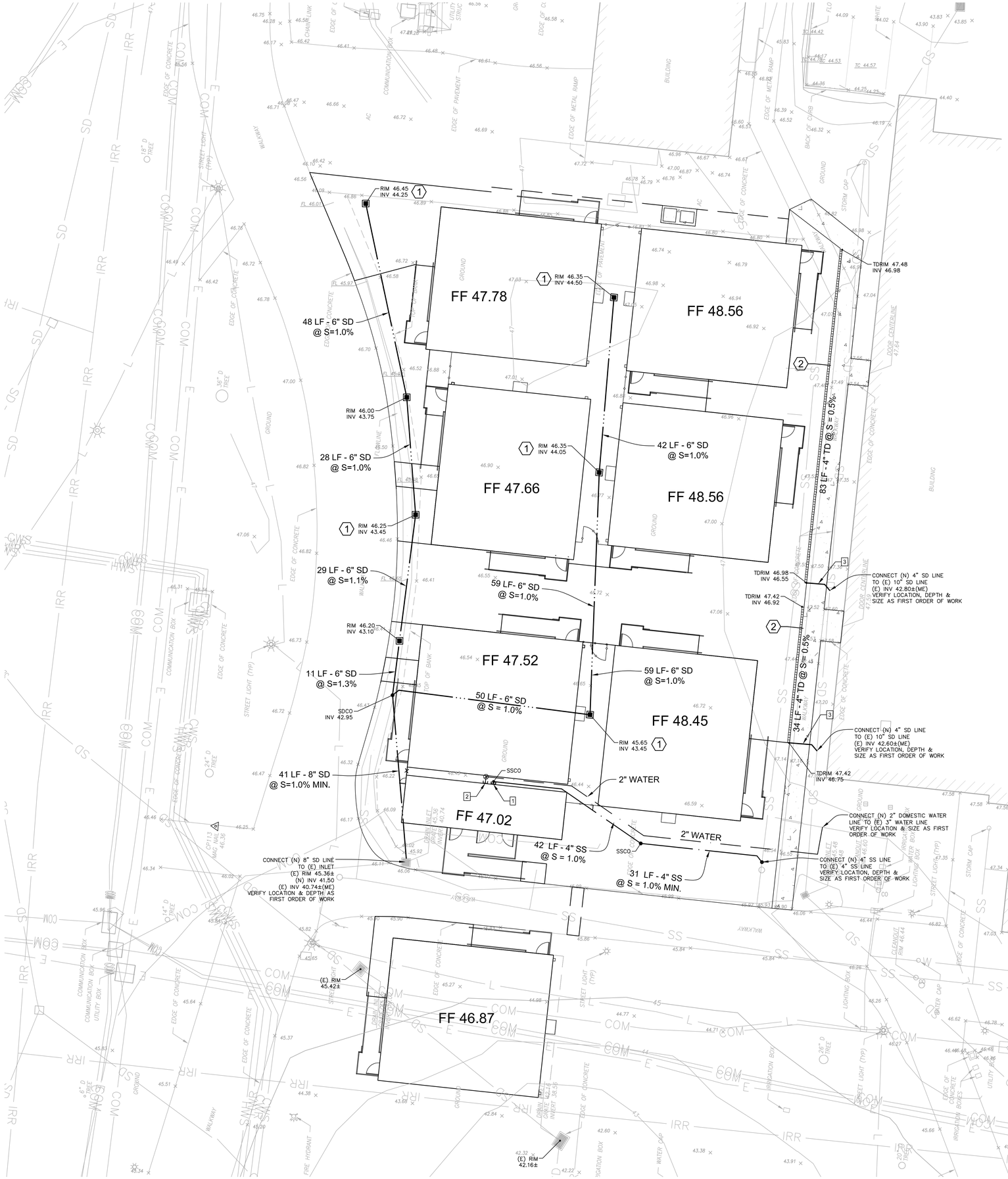
MILESTONES

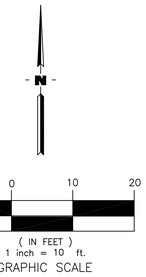
SD	12.13.2023
DD	01.17.2024
50% CD	02.09.2024
90% CD	02.21.2024
DSA SUB	03.06.2024

SHEET
GRADING & DRAINAGE PLAN

DATE 03/06/24
JOB # 2023052 CEI # 3061A
SHEET # C2.1

M:\3061 – Solano CCD Standards Update_DWG\3061A_C2.1_GR.dwg 3-06-24 01:36:37 PM MilanKC





UNDERGROUND UTILITIES CONSTRUCTION DETAIL REFERENCES - SEE SHEET C4.2

1. 12" STORM INLET PER DETAIL 5 / C4.2
2. TRENCH DRAIN PER DETAIL 7 / C4.2

UNDERGROUND UTILITIES PLAN NOTES:

1. 4" SS-P,O,C. INSTALL 2-WAY SSCO, VERIFY DEPTH AND LOCATION WITH PLUMBING DRAWINGS, S.P.D.
2. 2" DOMESTIC WATER P.O.C. INSTALL S.O.V. IN BOX, VERIFY LOCATION AND SIZE WITH PLUMBING DRAWINGS. S.P.D.
3. CONNECT TRENCH DRAIN TO NEAREST SD LINE WITH 4"SD LINE @ S=1.0% MIN

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

aedis architects
www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

SOLANO CCD
SWING SPACE

SOLANO COMMUNITY
COLLEGE DISTRICT

CONSULTANT

CARROLL ENGINEERING
5101 E. McKINSTER BVD.
SUITE 101, SACRAMENTO
TEL: 408-241-6830
E-MAIL: Robert@carroll-engineering.com

STAMP

REGISTERED PROFESSIONAL ENGINEER
MATTHEW PAUL MARIUS
No. C 68770
Exp. 09/30/25
STATE OF CALIFORNIA

STATE

DSA FILE NUMBER	48-C1
APPL #	02-122153

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	12.13.2023
DD	01.17.2024
50% CD	02.09.2024
90% CD	02.21.2024
DSA SUB	03.06.2024

SHEET

UNDERGROUND
UTILITIES
PLAN

DATE 03/06/24

JOB # 2023052 **CEI #** 3061A

SHEET # C3.1

M:\3061 - Solano CCD Standards Update_DWG\3061A_C3.1_UT.dwg 3-06-24 01:37:22 PM MilanKC

GENERAL NOTES

1. All work shall be done in accordance with the following:
   a) Applicable sections of the State of California Department of Transportation Standard Specifications, latest edition, hereinafter called "Caltrans";
   b) California Plumbing Code and California Building Code Provisions
   c) AWWA standards and specifications;
   d) City of Fairfield Standard Details and Specifications where applicable;
   e) These plans and details shown hereon;
   f) Standards of the United States Department of Labor, Occupational Safety and Health Administration, Office of Standards and rules of the State Division of Industrial Safety.
   g) 2022 edition of the California State Code of Regulations Title 24.
   h) The Project Specifications
   i) Soils Investigation

Where conflicts exist between any of the above listed specifications, the most stringent listed specification shall prevail.

2. It is the responsibility of the Contractor to secure all permits necessary to perform the work, including but not limited to, work in the public right-of-way, grading, tree removal, and utility modifications.

3. Contractor shall supply all equipment, labor, and materials necessary to perform the work shown on this plan.

4. It shall be the responsibility of the various contractors to coordinate their work so as to eliminate conflicts and work toward the general good and completion of the entire project.

5. All workmanship and materials furnished by Contractor shall be of the kind and quality described in the specifications and shall be first class throughout. Neither final acceptance nor final payment by Owner shall relieve the Contractor of responsibility for faulty materials or workmanship.

6. In the event of any conflict of information shown in these plans or any conflict between these plans and the intent of a consistent and functional product, the Contractor shall so notify the Owner in writing, upon which notice the Owner shall resolve the conflict by the issuance of a written order, revised plans or both. The Contractor shall bear full cost and responsibility for work affected by such conflicts and performed by Contractor prior to such notice to the Owner and issuance of such order and/or revised plans.

7. Contractor shall provide adequate dust control at all times as required by Owner's representative.

8. Contractor shall exercise all necessary caution to avoid damage to any existing trees, or surface improvements, or to any existing drainage structure, water structures, sewer cleanouts, manholes, or junction boxes for underground electric, telephone, or cable TV, or storm sewer, sanitary sewer, water line, and underground utilities, which are to remain in place and shall bear full responsibility for any damage thereto.

9. All known existing utility lines are shown for information only. Contractor shall exercise all necessary caution to avoid damage to any existing utility lines or facilities to remain in place, whether or not such lines or facilities are shown on these plans, and shall bear full responsibility for any damage thereto. Contractor is advised to Contact Underground Service Alert (USA) at (800) 642-2444 or a private Underground Locater Service (at contractor's expense) and the affected utility company for marking underground lines prior to beginning work.

10. Inspection of work: The City of Fairfield Public Works Department will inspect all work involving conformance to encroachment permit. A representative of Owner will inspect all work, including grades and compaction of earthwork. Contractor shall notify the City of Fairfield public works at least forty eight (48) hours prior to work within the public ROW.

11. Engineer shall have no responsibility for Contractor's work methods and procedures, jobsite conditions, jobsite safety or adherence to safety procedures and requirements.

12. The Contractor agrees that, in accordance with generally accepted construction practices, the Contractor will be required to assume sole and complete responsibility for jobsite conditions during the course of construction of the project, including safety of all persons and property. This requirement shall apply continuously and not be limited to normal working hours. The contractor agrees to defend, indemnify and hold Owner and Engineer harmless from any and all liability, real or alleged, in connection with the performance of the work on this project, exempting liability arising from the sole negligence of the Engineer or Owner.

13. Parking lot striping shall be laid out in accordance with the Horizontal Control Plan, and in accordance with the City of Fairfield Standard specifications.

14. Contractor shall provide appropriate traffic control measures as outlined in the City of Fairfield specifications and as directed by the City Engineer.

GRADING AND PAVING NOTES

1. Work shall consist of all clearing, grubbing, and stripping, preparation of land to be filled, excavation, spreading, compaction and control of the fill, and all subsidiary work necessary to complete the grading to conform to the lines, grades and slopes, as shown on the accepted plans and as specified in the Geotechnical Investigation Report.

2. The contractor's attention is directed to the Geotechnical Investigation

3. The Contractor's attention is directed to the City of Fairfield Off-Site plans for work within the ROW. Contractor shall adhere to the requirements thereof.

4. The Contractor shall notify the Soil Engineer at least forty-eight (48) hours prior to commencement of any grading operations on-site.

5. A representative of the Soils Engineer shall be on site during grading operations and shall perform such testing as deemed necessary. The representative shall observe the grading operation for conditions that should be corrected, and identify those conditions with recommended corrective measures to the Contractor.

6. In the event that any unusual conditions not covered by these notes and the Soils Investigation are encountered during grading operations, the Soils Engineer shall be immediately notified for recommendations.

7. All existing trash, debris, roots, tree remains and other rubbish shall be removed from the site so as to leave the areas that have been disturbed with a neat and finished appearance free from unsightly debris. No burning shall be permitted.

8. Contractor shall grade to the line and elevations shown on the plan within the following horizontal and vertical tolerance, in the areas indicated:

	Horizontal	Vertical
a. Building Pad Subgrade	0.50'+	0.05'+
b. Driveway and parking area subgrade preparation	0.05'+	0.05'+

9. All aggregate base material and the handling and placement thereof shall be in accordance with the Caltrans Standard Specifications. Aggregate base materials shall be Class II.

10. Compacted building pads shall extend 5 feet minimum beyond building footprint.

11. Asphalt concrete (AC) shall be Type A, 3/4" maximum aggregate size for base course and 1/2" maximum aggregate size for surface course, as specified for surface course material in the Caltrans Specification. 2" thickness may be placed in one lift.

12. SC-70 liquid asphalt prime coat conforming to the provisions of the Caltrans Specifications shall be applied at the rate of 0.15+ gallons per square yard to surface of aggregate base prior to placement of asphalt concrete.

13. SS-1 emulsified asphalt paint binder conforming to the provisions of the Caltrans Specification shall be applied at the rate of 0.07+ gallons per square yard to existing asphalt concrete surface and vertical concrete surfaces to receive asphalt concrete.

14. SS-1 emulsified liquid asphalt seal coat conforming to the provisions of the Caltrans Specifications shall be diluted with equal parts water and applied at the rate of 0.15+ gallons per square yard to surface of the new finished asphalt paving surface and existing asphalt paving surfaces to remain in place. Existing asphalt surfaces shall be cleaned prior to seal coat operation.

15. Contractor shall adjust all inlets, valve boxes, manhole rims, and sewer cleanouts to new finish grade.

16. Materials handling and placement of Portland Cement Concrete shall be in accordance with applicable sections of the Caltrans Standard Specifications and these plans and details shown hereon. Concrete to be Class A, 6 sack, 3000 PSI concrete.

UNDERGROUND NOTES

1. Contractor shall expose and verify location and elevation of existing utilities, including sanitary and storm sewers, and water lines before constructing new facilities. Contractor shall cap existing irrigation lines where necessary so that the remaining irrigation system will continue to be operational for the existing landscaping to remain.

2. Materials for pipe, storm water inlets and cleanouts and installation procedures shall be in accordance with applicable California Building Code sections and the City of Fairfield Standard Specifications, the Project Specifications and these plans and details shown hereon.

Storm Sewer Pipe designated "SD" shall be SDR 26 PVC pipe or HDPE ADS N-12 pipe appropriate for such use. Storm Sewer Pipe designated "DIP" shall be ductile iron pipe appropriate for such use.

Storm Sewer Pipe designated "RCP" shall be reinforced concrete pipe appropriate for such use.

Sanitary Sewer Pipe designated "SS" shall be vitrified clay pipe or SDR 26 PVC pipe appropriate for such use.

Water Pipe designated "WATER" or "W" shall be Schedule 80 PVC pipe appropriate for such use

Fire Lines designated "FIRE LINE" or "F" shall be AWWA C900 PVC – DR 18 pipe appropriate for such use

3. Ensure grates are ADA compliant for all existing inlets to remain in travelled access paths, subject to pedestrian traffic. Replace as necessary.

4. All trench excavation and backfill for sewer lines shall conform to requirements of the City of Fairfield Standard Specifications. Jetting of backfill materials to achieve compaction is not allowed.

5. All trenches and excavations shall be constructed in strict compliance with the applicable sections of California and Federal O.S.H.A. requirements and other applicable safety ordinances. Contractor shall bear full responsibility for trench shoring design and installation.

6. Materials for pipe and installation requirements for domestic water lines shall be in accordance with applicable California Plumbing Code sections and the City of Fairfield Standard Specifications and these plans and details shown hereon.

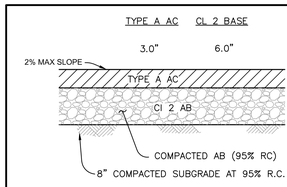
7. Soils on the site have been found to be corrosive. All buried metallic pipes, fittings and appurtenances associated with the water pipelines shall be encased in 8-mil polyethylene per AWWA C-105. All buried copper water service lines shall be encased in 6-mil polyethylene sleeve in accordance with AWWA C-105

LEGEND

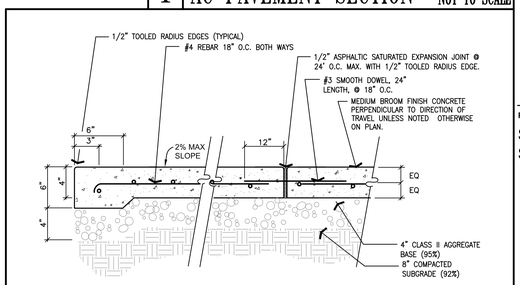
DESCRIPTION	PROPOSED	EXISTING
PROPERTY LINE		
CENTERLINE		
AC PAVEMENT		
PEDESTRIAN CONCRETE		
SLURRY SEAL.		
AGGREGATE BASE		
GRIND OVERLAY		
BARK MULCH		
CURB & GUTTER		
VERTICAL CURB		
ASPHALT EDGE /SAWCUT		
EXPANSION JOINT		
SCORE JOINT		
VALLEY GUTTER		
TRENCH DRAIN		
PERF PIPE		
RAINWATER LEADER		
STORM LINE		SD
SANITARY LINE		SS
WATER LINE		W
GAS LINE		G
FIRE SPRINKLER		FS
FIRE LINE		F
FENCE		X
ROLLING FENCE		
CITY CONFORM		
ADA DROP OFF		
FIRE LANE		
TYP RAMP W/GROOVES		
TRUNCATED DOMES		
ACCESSIBLE RAMP		
STORM DRAIN INLET		
BUBBLER BOX		
END SECTION		
END SECTION MITERED DRAIN GRATE		
BOLLARD		
HYDRANT		
FDC		
PIV		
THRUST BLOCK		
SOV		
CHECK VALVE		
BACKFLOW		
LIGHTING POLE		
EV CHARGING STATION		
ELECTROLIER		
ELECTROLIER CONDUIT & CABLE W/PULL BOX		
DIRECTION & RATE OF SLOPE	0.015	
SWALE		
CONTOUR		

ABBREVIATIONS

AB	AGGREGATE BASE	LTB	LIME TREATED BASE
AC	ASPHALT CONCRETE	(ME)	MATCH EXISTING ELEVATION
ACC	ACCESSIBLE	MH	MANHOLE
ARCH	ARCHITECTURAL	ML	MONUMENT LINE
BS	BOTTOM OF STEP	(N)	NEW
BW	BACK OF WALK ELEVATION	PAV	PAVEMENT SURFACE ELEVATION
BOW	BOTTOM OF WALL ELEVATIONS	℄	PROPERTY LINE
CB	CATCH BASIN	PP	PERFORATED PIPE
CI	CAST IRON	RIM	RIM ELEVATION
℄	CENTER LINE	RS	TOP OF RAT SLAB ELEVATION
CLF	CHAIN LINK FENCE	RWL	RAIN WATER LEADER
C&G	CURB AND GUTTER	S=	SLOPE
CONC	CONCRETE	SD	STORM DRAIN
C	CONCRETE ELEVATION	S.A.D.	SEE ARCHITECT DRAWINGS
DWY	DRIVEWAY	S.E.D.	SEE ELECTRICAL DRAWINGS
E	ELECTRICAL	S.L.D.	SEE LANDSCAPE DRAWINGS
(E)	EXISTING	S.P.D.	SEE PLUMBING DRAWINGS
EBOX	ELECTRICAL BOX	SG	SUBGRADE ELEVATION
EC	EDGE OF CONCRETE	SS	SANITARY SEWER
EP	EDGE OF PAVEMENT	SSCO	SANITARY SEWER CLEANOUT
EV	ELECTRICAL VAULT	S/W	SIDEWALK
F	FIRE LINE	STLT	STREET LIGHT
FG	FINISH GRADE	T	TELEPHONE
FNC	FENCE	TC	TOP OF CURB
FH	FIRE HYDRANT	TD	TRENCH DRAIN
FF	FINISHED FLOOR ELEVATION	TILE	TOP OF TILE ELEVATION
FL	FLOW LINE	TOE	TOE OF BANK
FOC	FACE OF CURB	TOW	TOP OF WALL ELEVATION
G	GAS	TP	TELEPHONE POLE
GB	GRADE BREAK	TR	TOP OF RAMP
GND	GROUND ELEVATION	TS	TOP OF STEP
JP	JOINT POLE	TSB	TRAFFIC SIGNAL BOX
ICV	IRRIGATION CONTROL VALVE	VLT	VAULT
INV	INVERT	W	WATER
LF	LINEAR FEET	WV	WATER VALVE
LS	LANDSCAPE		

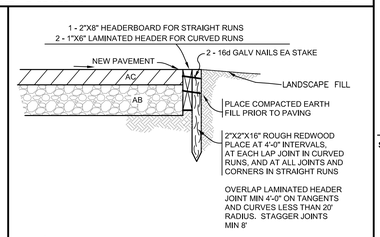


1 AC PAVEMENT SECTION NOT TO SCALE

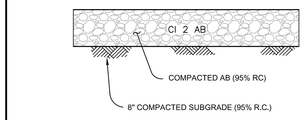


NOTES:
1. SCORE JOINTS SHALL BE PLACED A MAXIMUM OF 8' O.C. REFER TO PLAN FOR EXACT LOCATIONS.
2. SCORE JOINTS TO BE 1/8" WIDE MAXIMUM, 1/2" RADIUS BOTH SIDES, 1-1/4" DEEP SCORE.
3. ADJACENT GRADE TO BE 1-1/2" BELOW CONCRETE IN PLANTING AND 1" BELOW CONCRETE IN SODDED TURF AND 1/2" BELOW CONCRETE IN SEEDED TURF.
4. USE 1 PINT OF LAMP BLACK PER YARD OF CONCRETE
5. USE JOINT FILLER ON THE EXP. JOINTS SELF LEVELING BASF SONOLASTIC ELASTOMERIC POLYURETHANE JOINT SEALANT IN ACCORDANCE WITH FEDERAL SPECIFICATION TT-S-0227E, TYPE I, CLASS A-SONNEBORN SL-2

2 CONCRETE PAVING NOT TO SCALE



3 HEADER BOARD NOT TO SCALE



4 COMPACTED AGGREGATE BASE PAD N.T.S.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

aedis architects
www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

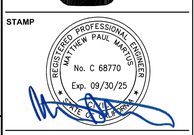
PROJECT
SOLANO CCD SWING SPACE

SOLANO COMMUNITY COLLEGE DISTRICT

CONSULTANT

CARROLL ENGINEERING
5301 E. McKINSTER BLVD.
SUITE 8 - 9, 93726
TEL: 559-261-3656
FAX: 559-261-3659
E-MAIL: Robert@carroll-engineering.com

STAMP



STATE
DSA FILE NUMBER 48-C1
APPL # 02-122153

REVISIONS

No.	Description	Date
△		

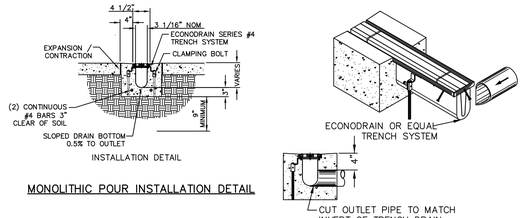
MILESTONES

SD	12.13.2023
DD	01.17.2024
50% CD	02.09.2024
90% CD	02.21.2024
DSA SUB	03.06.2024

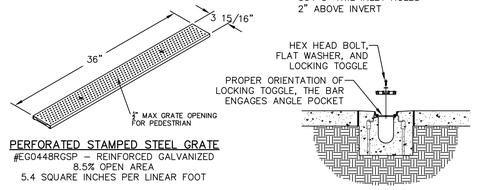
SHEET
NOTES, LEGEND & DETAILS

DATE 03/06/24
JOB # 2023052 CEI # 3061A
SHEET # C4.1

M:\3061 - Solano CCD Standards Update_DWG\3061A_C4.1_ND.dwg 3-06-24 01:40:19 PM MilanK



MONOLITHIC POUR INSTALLATION DETAIL



PERFORATED STAMPED STEEL GRATE
#EG0448RGSP – REINFORCED GALVANIZED
8.5% OPEN AREA
5.4 SQUARE INCHES PER LINEAR FOOT

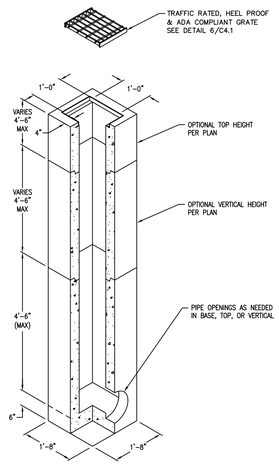
GRATE LOCKING DEVICE INSTALLATION

CONSTRUCTION NOTES:
1. ADD REBAR AS REQUIRED
2. EXPANSION / CONTRACTION JOINT SEE CONCRETE DETAIL
3. STANDARD CHANNEL LENGTH IS 8'-0" (96")
4. STANDARD CHANNEL SLOPE IS 0.5%
5. MINIMUM CONCRETE COVERAGE OF OUTLET/INLET PIPES IS 4 INCHES MIN.
6. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
7. SECURE OUTLET & INLET PIPES PRIOR TO CONCRETING OPERATIONS.
8. GRATE OPENINGS SHALL BE 1/2" MAX. DIAMETER, PER CBC 11B-302.3.

7 TRENCH DRAIN - EconoDrain #4

NOT TO SCALE

VERTICAL AVAILABLE TO MEET REQUIRED DEPTH — SD-1



VERTICAL WEIGHT PER FOOT: 270 LBS.
FLOOR WEIGHT: 210 LBS.

DRAWING MAY NOT CONFORM TO THE MOST CURRENT SPECIFICATION

Oldcastle Precast®
Northern California
Madera • Morgan Hill • Pleasanton • Santa Rosa • Stockton • Tulare
Phone: 925-750-6650 Fax: 925-750-6660

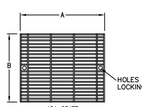
DI-1212	1'-0" X 1'-0" X VARIES (I.D.) DRAINAGE INLET STORM DRAIN
FILE NAME: SD-1.DWG	
REVISED: MARCH 2016	
www.oldcastleprecast.com	Copyright © 2016 Oldcastle Precast, Inc.

5 STORM INLET ▪

GRATE & FRAME TO BE H-20 TRAFFIC RATED. — SD-13

NOTES:
1. FOR FRAME SIZES SEE "TYPICAL FRAME AND GRATE" PAGE.
2. ½" MAXIMUM SPACING BETWEEN BEARING BARS.

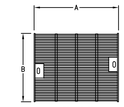
AMERICAN DISABILITIES ACT (ADA), WHEEL CHAIR PROOF PEDESTRIAN GRATES					
	GRATE SIZE			GRATE HEIGHT	WEIGHT (LBS)	BEARING BAR QTY.
SIZE	A	B				
12x12	14 5/8"	11 7/8"		1 1/4"	20	18
18x18	20 5/8"	18"		1"	32	26
18x24	20 5/8"	24"		1 1/4"	54	35
24x24	26 3/4"	24"		1 1/4"	68	35
24x30	26 3/4"	30"		1 1/4"	87	44
2 PC.	24x36	26 1/2"	36"	1 1/4"	106	53
2 PC.	24x48	26 5/8"	48"	1 1/4"	133	72



ADA GRATE
PLAN VIEW

AMERICAN DISABILITIES ACT (ADA), WHEEL CHAIR PROOF TRAFFIC GRATES					
	GRATE SIZE		GRATE HEIGHT	WEIGHT (LBS)	BEARING BAR QTY.
SIZE	A	B			
12x12	14 5/8"	11 7/8"	1 1/4"	20	18
18x18	20 5/8"	18"	2 1/4"	72	26
18x24	20 5/8"	24"	2 1/4"	87	35
24x24	26 3/4"	24"	2 1/4"	122	35
24x30	26 3/4"	30"	2 1/4"	156	44
24x36	26 1/2"	36"	2 1/4"	191	53
24x48	26 5/8"	48"	2 1/4"	236	72

NOTES:
1. FOR FRAME SIZES SEE "TYPICAL FRAME AND GRATE" PAGE.
2. ¾" MAXIMUM SPACING BETWEEN BEARING BARS.
3. TRAFFIC RATED HEEL PROOF GRATES ARE AVAILABLE UPON REQUEST.



HEEL GRATE
PLAN VIEW

HEEL PROOF PEDESTRIAN GRATES					
	GRATE SIZE		GRATE HEIGHT	WEIGHT (LBS)	BEARING BAR QTY.
SIZE	A	B			
12x12	14 5/8"	11 7/8"	1 1/4"	27	27
18x18	20 5/8"	18"	1"	33	42
24x24	26 3/4"	24"	1 1/4"	101	55

NOTES:
1. GRATES ARE HOT-DIPPED GALVANIZED AFTER FABRICATION.
2. ADDITIONAL SIZES AVAILABLE UPON REQUEST
3. LOCKING BOLTS INCLUDED

DRAWING MAY NOT CONFORM TO THE MOST CURRENT SPECIFICATION

Oldcastle Precast®
Northern California
Madera • Morgan Hill • Pleasanton • Santa Rosa • Stockton • Tulare
Phone: 925-750-6650 Fax: 925-750-6660

ADA & HEEL GRATES	TYPICAL GRATES DRAINAGE INLET STORM DRAIN
FILE NAME: SD-13.DWG	
REVISED: MARCH 2016	
www.oldcastleprecast.com	Copyright © 2016 Oldcastle Precast, Inc.

6 INLET GRATES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

aedis architects
www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT
SOLANO CCD
SWING SPACE

SOLANO COMMUNITY
COLLEGE DISTRICT

CONSULTANT
CARROLL ENGINEERING
5301 E. McKINLEY AVE.
FRESNO, CA 93727
TEL: 559-251-8020
FAX: 559-251-8029
E-MAIL: Bob@carroll-engineering.com

STAMP
REGISTERED PROFESSIONAL ENGINEER
MATTHEW PAUL MANTUS
No. C 68770
Exp. 09/30/25
STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 48-C1
APPL # 02-122153

REVISIONS

No.	Description	Date
△		

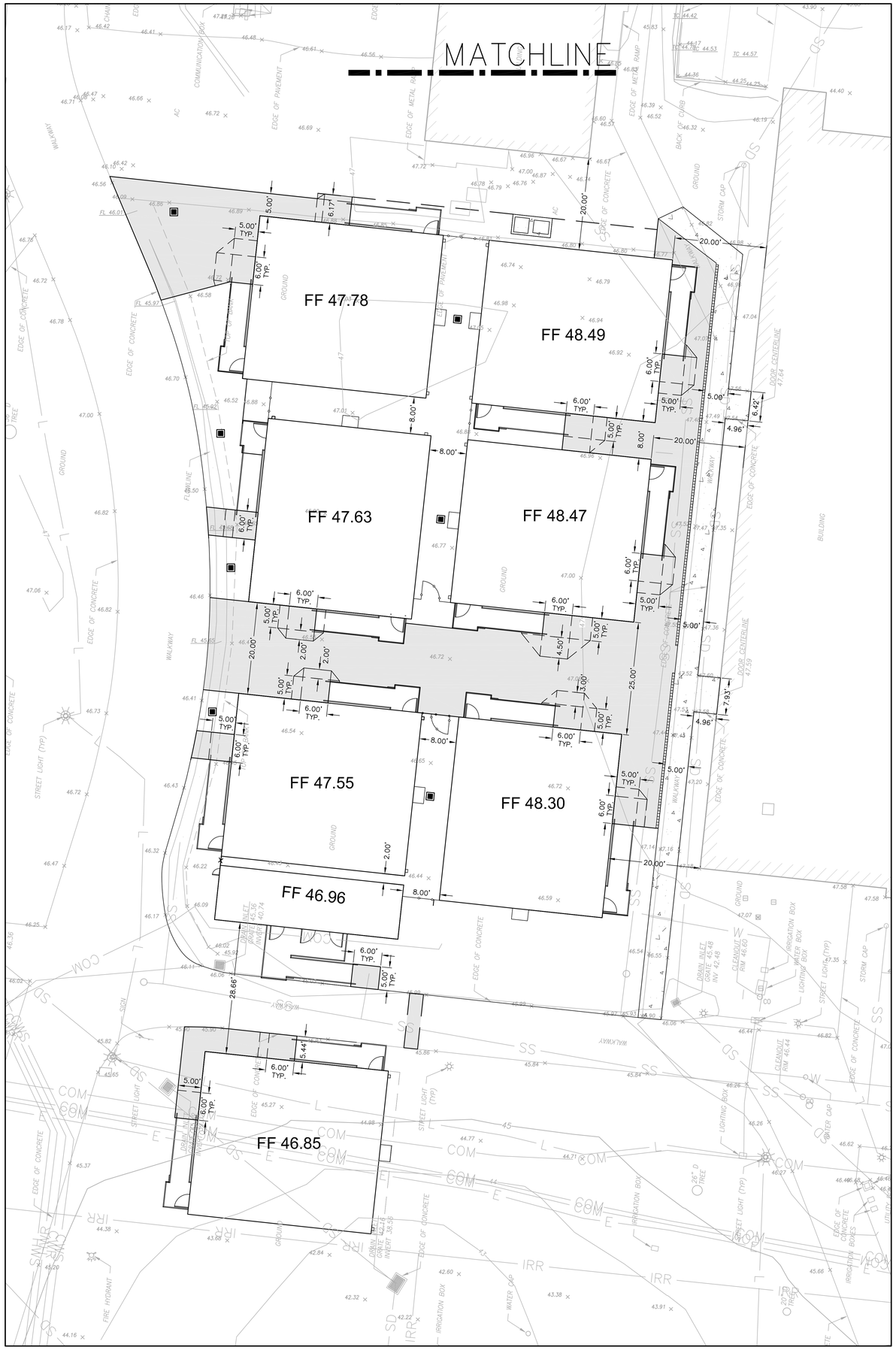
MILESTONES

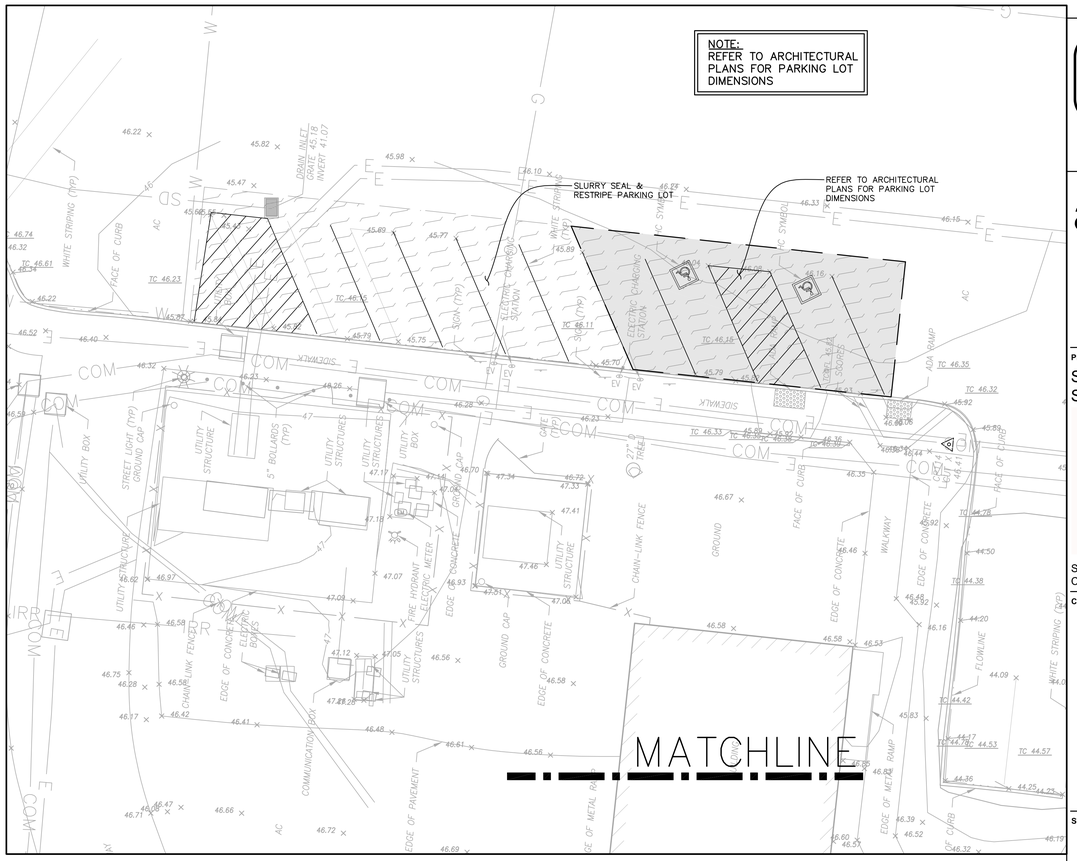
SD	12.13.2023
DD	01.17.2024
50% CD	02.09.2024
90% CD	02.21.2024
DSA SUB	03.06.2024

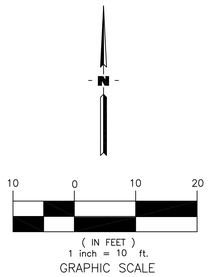
SHEET
UNDERGROUND
UTILITIES
DETAILS

DATE 03/06/24
JOB # 2023052
CEI # 3061A
SHEET # C4.2

M:\3061 – Solano CCD Standards Update_DWG\3061A_C4.1_ND.dwg 3-06-24 01:40:34 PM MilanKC







IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

aedis architects
www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

SOLANO CCD
SWING SPACE

SOLANO COMMUNITY
COLLEGE DISTRICT

CONSULTANT

CARROLL ENGINEERING
engineering for surveying
5101 E. MACKENZIE BLVD.
SUITE 100
PHASE, AZ 85054
TEL: 602-243-1660
E-MAIL: Scott@carroll-engineering.com

STAMP

REGISTERED PROFESSIONAL ENGINEER
MATTHEW PAUL MARIUS
No. C 68770
Exp. 09/30/25
CIVIL
STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 48-C1
APPL # 02-122153

REVISIONS

No.	Description	Date
△		

MILESTONES

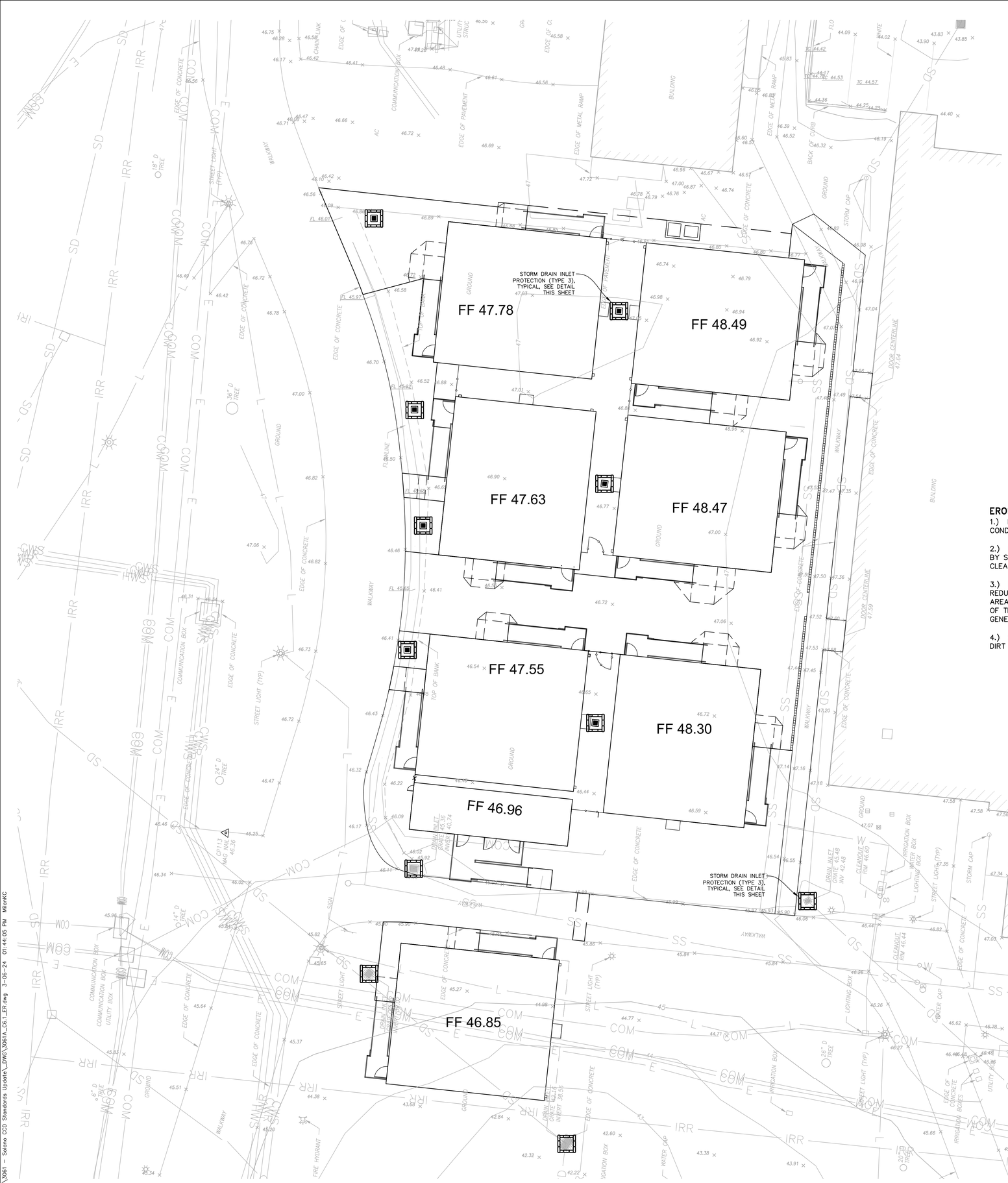
SD	12.13.2023
DD	01.17.2024
50% CD	02.09.2024
90% CD	02.21.2024
DSA SUB	03.06.2024

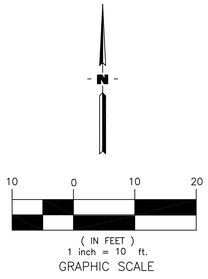
SHEET

HORIZONTAL
CONTROL
PLAN

DATE 03/06/24
JOB # 2023052 CEI # 3061A
SHEET # C5.1

M:\3061 - Solano CCD Standards Update_DWG\3061A_C5.1_HC.dwg 3-06-24 01:43:31 PM MilanKC





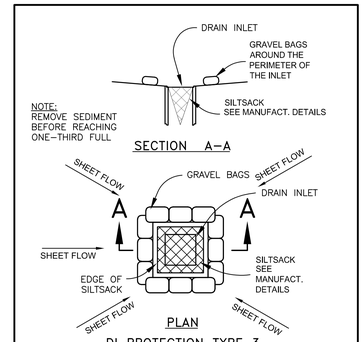
EROSION CONTROL NOTES:

1.) EROSION CONTROL FACILITIES SHALL BE MAINTAINED IN GOOD CONDITION TO PREVENT SILTATION FROM ENTERING INLETS.

2.) DUST GENERATED ON THE PROJECT SITE SHALL BE CONTROLLED BY SELECTIVE WATERING OF EXPOSED AREAS, ESPECIALLY DURING CLEARING AND GRADING OPERATIONS.

3.) PAVING SHALL BE COMPLETED AS SOON AS IS PRACTICABLE TO REDUCE THE TIME THAT BARE SURFACES AND SOILS ARE EXPOSED IN AREAS WHERE CONSTRUCTION IS DELAYED FOR AN EXTENDED PERIOD OF TIME, THE GROUND SHALL BE REVEGETATED TO MINIMIZE THE GENERATION OF DUST.

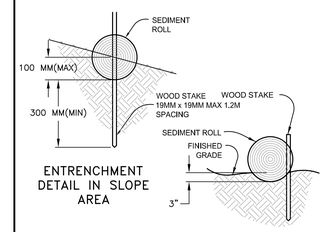
4.) STREET SWEEPING SHALL BE CONDUCTED TO CONTROL DUST AND DIRT TRACKED FROM THE PROJECT SITE ONTO ADJACENT STREETS.



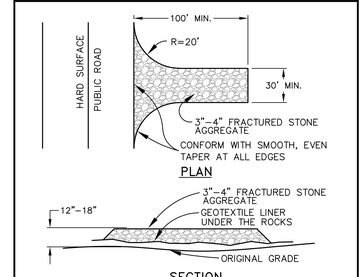
DI PROTECTION TYPE 3
NOT TO SCALE

NOTES:
1. FOR USE IN PAVED AREAS.
2. SHAPE BASIN SO THAT LONGEST INFLOW AREA FACES LONGEST LENGTH OF TRAP.
3. FOR CONCENTRATED FLOWS, SHAPE BASIN IN 2:1 RATIO WITH LENGTH ORIENTED TOWARDS DIRECTION OF FLOW.

STORM DRAIN INLET PROTECTION - TYPE 3



FIBER ROLLS



TEMP.CONSTRUCTION EXIT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

aedis architects
www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT
SOLANO CCD SWING SPACE

SOLANO COMMUNITY COLLEGE DISTRICT

CONSULTANT
CARROLL ENGINEERING
5101 E. McKINSTER BLVD.
SUITE 215, 95336
TEL: 209-251-3939
E-MAIL: Robert@carroll-engineering.com
Released for permit

STAMP
REGISTERED PROFESSIONAL ENGINEER
MATTHEW PAUL MANUS
No. C 68770
Exp. 09/30/25
STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 48-C1
APPL # 02-122153

REVISIONS

No.	Description	Date
△		

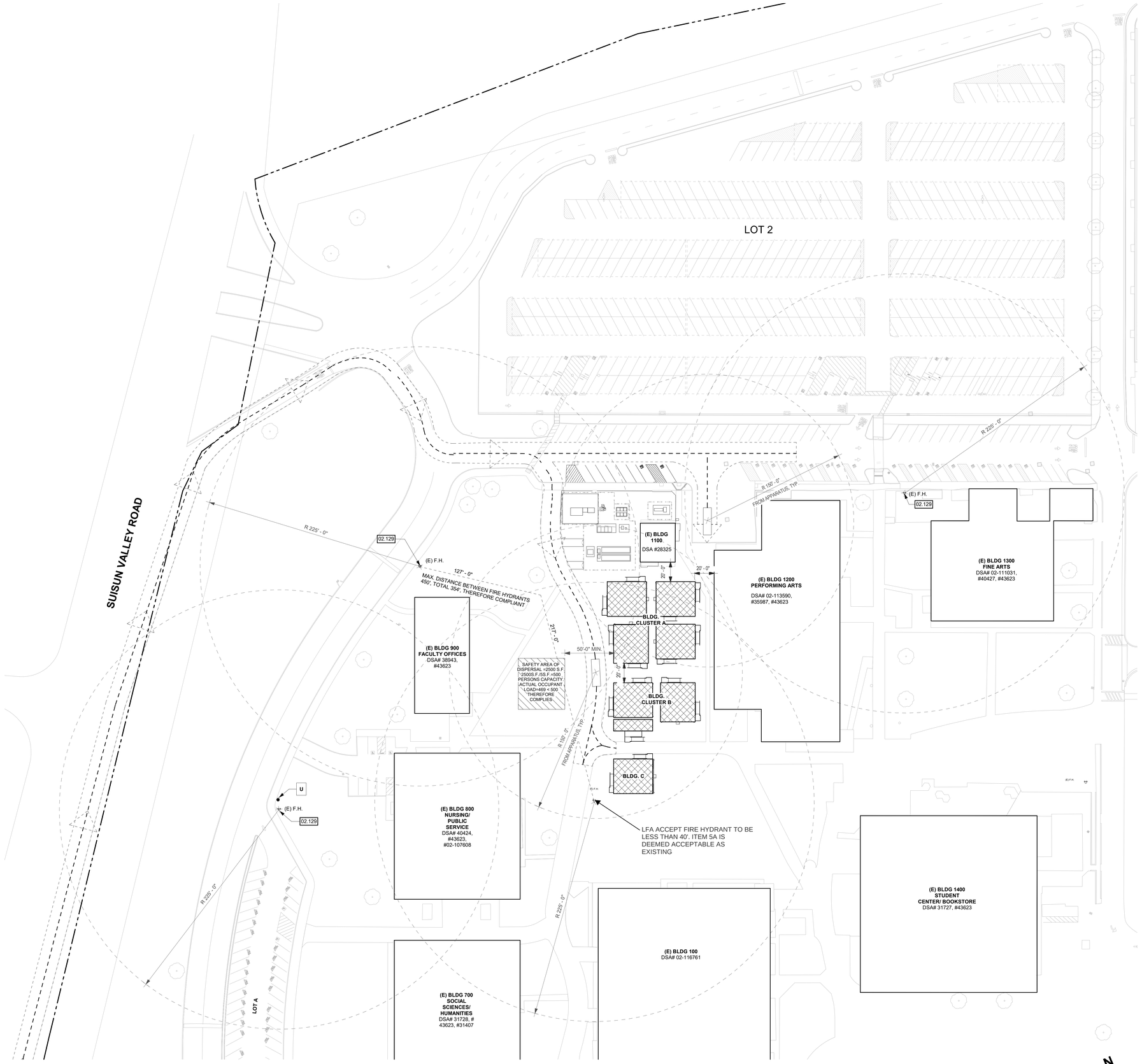
MILESTONES

SD	12.13.2023
DD	01.17.2024
50% CD	02.09.2024
90% CD	02.21.2024
DSA SUB	03.06.2024

SHEET
EROSION CONTROL PLAN

DATE 03/06/24
JOB # 2023052 CEI # 3061A
SHEET # C6.1

M:\3061 - Solano CCD Standards Update_DWG\3061A_C6.1_ER.dwg 3-06-24 01:44:05 PM MilanKC



1 **FIRE DEPARTMENT ACCESS PLAN**
SCALE: 1" = 40'-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:	Solano Community College District
Project Name/School:	Solano CCD -Swing Space, Fairfield Campus
Project Address:	4000 Suisun Valley Rd, Fairfield CA 94534

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

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED			
		Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.			✓	
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: Lucky Lofton Title: VP Facilities, Executive Bond Mgr.

Signature: Digitally signed by Lucky Lofton Date: 2024.02.21 11:48:42 -08'00' Date: Feb. 21, 2024

LOCAL FIRE AUTHORITY (LFA) INFORMATION		
LFA Agency Name:	Cordelia Fire Protection District	
LFA Review Official:	Richard S. Ryan,	
Title:	Fire Marshal	Work Phone: 707-567-6561
Work Email:	RichardSRyan813@gmail.com	

LFA Reviewer's Signature: Date: 2/18/2024

Clusters A, B, building C adjacent to (E) bldg 1200

LFA HAS REVIEWED AND ACCEPTED THE PROPOSED FIRE ACCESS PLAN USING THE EXISTING AVAILABLE FIREFLOW. LFA DETERMINE THAT THEIR EQUIPMENT IS ADEQUATE IN CONJUNCTION WITH THE FIREFLOW PROVIDED AT THE SITE

GRAPHIC KEY

- BUILDING IN SCOPE
- EXISTING CONSTRUCTION TO REMAIN
- AREA OF SAFE DISPERSAL
- PROPERTY LINE
- FIRE DEPARTMENT ACCESS — FIRE DEPARTMENT ACCESS IS 20'-0" WIDE AND RATED FOR 96,000 LBS.
- U — PARKING PERMIT REQUIRED SIGN
- T — TOW-AWAY SIGN
- (E)F.H. — EXISTING FIRE HYDRANT

NEW SITE PLAN KEYNOTES

02.129 (E) FIRE HYDRANT

REQUIRED FIRE FLOW

(Per California Fire Code, Appendices BB and CC Tables BB105.1 and CC105.01

BUILDING CLUSTER A	
- CONSTRUCTION TYPE:	V-B
- FIRE SPRINKLERED:	NO
- STORIES:	1
- BUILDING HEIGHT:	12'-6"
- BUILDING FIRE AREA:	6,756 SQ.FT.
- FIRE FLOW REQUIRED: - TOTAL FIRE FLOW REQUIRED - FLOW DURATION: 2 HOURS	2,250 GPM
- FIRE FLOW PROVIDED:	805 GPM
- NUMBER OF FIRE HYDRANTS REQUIRED:	2
- NUMBER OF FIRE HYDRANTS PROVIDED:	3

BUILDING CLUSTER B	
- CONSTRUCTION TYPE:	V-B
- FIRE SPRINKLERED:	NO
- STORIES:	1
- BUILDING HEIGHT:	12'-6"
- BUILDING FIRE AREA:	3,899 SQ.FT.
- FIRE FLOW REQUIRED: - TOTAL FIRE FLOW REQUIRED - FLOW DURATION: 2 HOURS	1,750 GPM
- FIRE FLOW PROVIDED:	805 GPM
- NUMBER OF FIRE HYDRANTS REQUIRED:	1
- NUMBER OF FIRE HYDRANTS PROVIDED:	2

BUILDING C	
- CONSTRUCTION TYPE:	V-B
- FIRE SPRINKLERED:	NO
- STORIES:	1
- BUILDING HEIGHT:	12'-6"
- BUILDING FIRE AREA:	1,688 SQ.FT.
- FIRE FLOW REQUIRED: - TOTAL FIRE FLOW REQUIRED - FLOW DURATION: 2 HOURS	1,500 GPM
- FIRE FLOW PROVIDED:	886 GPM
- NUMBER OF FIRE HYDRANTS REQUIRED:	1
- NUMBER OF FIRE HYDRANTS PROVIDED:	2

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

aedis architects
www.aedisarchitects.com
333 W Santa Clara St # 900
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

SOLANO CCD
SWING SPACE

SOLANO COMMUNITY COLLEGE

SOLANO COMMUNITY COLLEGE DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT JOSEPH A. [illegible] No. C-[illegible] REG. 11/30/24 STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 48- C1

APPL # 02-122153

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	12.13.2023
DD	01.17.2024
50% CD	02.09.2024
90% CD	02.21.2024
DSA SUB	03.06.2024

SHEET

FIRE DEPARTMENT ACCESS PLAN

DATE 03/06/24

JOB # 2023052

SHEET # A0.01

2/27/2024 1:06:36 PM

P-1 RAMP

P-2 TOW AWAY SIGN

P-3 TOW AWAY SIGN

1 **SITE**
SCALE: 1" = 100'-0"

GENERAL SHEET NOTES

A 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-206.

B CONTRACTOR SHALL MAINTAIN FIRE LANE ACCESS THROUGHOUT PROJECT.

C CONTRACTOR TO COORDINATE WITH LOCAL FIRE MARSHALL, CITY, AND DISTRICT FOR THE INSTALLATION OF FIRE HYDRANTS AND FIRE SPRINKLER SYSTEMS. NEW FIRE HYDRANTS ARE TO BE INSTALLED AND OPERATIONAL PRIOR TO STORING COMBUSTIBLE MATERIAL ON SITE PER CFC SECTION 1412. AN APPROVED TEMPORARY WATER SUPPLY FOR FIRE PROTECTION SHALL BE PROVIDED IF PERMANENT SOURCE IS NOT AVAILABLE.

D DO NOT INTERRUPT EXISTING UTILITY SERVICES SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AND COORDINATED WITH THE OWNER.

E PROTECT EXISTING & NEW STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, TREES AND SHRUBS FROM DAMAGE DURING CONSTRUCTION.

F REFER TO MODULAR AND ELECTRICAL DRAWINGS FOR EXTENT OF STRUCTURAL AND ELECTRICAL WORK.

G THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NON-COMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.
DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

H ALL ITEMS REFERENCED IN KEYNOTES ARE TO BE PROVIDED NEW, U.O.N.

I FOR UTILITY TRENCHES, CONTRACTOR TO REFER TO BOTH CIVIL AND ELCTRICAL DRAWINGS. COORDINATE EXACT TRENCH LOCATION IN THE FIELD

EXISTING BUILDING SUMMARY		
BUILDING #	DSA APPLICATION #	AREA IN SF
100	02-116761	58,265
200	60163, 43623	9,562
300	31728, 43623, 31407	24,240
400	01-100548, 43623	1,440
500	31728, 43623, 31407	11,616
600	31728, 43623, 31407	13,056
700	31728, 43623, 31407	16,864
800	40427, 43623	17,856
900	38943, 43623	2,447
1100	28325	17,500
1200	35987, 43623	25,251
1300	40427, 43623	12,400
1400	31727, 43623	30,976
1500	31728, 43623, 31407	11,616
1600	31728, 43623, 31407	14,336
1700A-1700B	32298, 43623	48,201
1800A	34859, 43623	9,660
1800B	34859, 43623	24,610
1900	31728, 43623, 31407	10,730
2000	31728, 31407	3,160
2100	32556, 43623	3,500
2200 POOL	32556, 43623	12,320
2700	33490, 33013, 43623	48,000

NEW SITE PLAN KEYNOTES

02.110 (E) D.A. HI-LO DRINKING FOUNTAIN. DSA #02-113590
02.129 (E) FIRE HYDRANT
02.143 (E) ACCESSIBLE EVCS VAN PARKING STALL, DSA# 02-120811
02.144 (E) ACCESSIBLE EVCS STANDARD PARKING STALL, DSA# 02-120811
02.153 (E) BIKE RACK
02.154 (E) BIKE LOCKER
32.201 DA PARKING STALL
32.202 DA VAN PARKING STALL

PARKING COUNT:

BASED OF DSA APPROVED SET #02-120811

PARKING ANALYSIS

LOT	TOTAL STALLS	REQ'D ACCESSIBLE STALLS	PROVIDED ACCESSIBLE STALLS	COVERED STANDARD STALLS	RATIO: COVERED TO UNCOVERED	REQ'D COVERED ACCESSIBLE STALLS	PROVIDED COVERED ACCESSIBLE STALLS
2	467	9	24	370	84%	8	8

EVCS PARKING ANALYSIS

LOT	TOTAL EVCS IN LOT	REQ'D ACC. EVCS VAN STALLS	REQ'D ACC. EVCS STALLS	PROVIDED ACC. EVCS STALLS	PROVIDED ACC. EVCS STALLS
2	6	1	1	1	1

GRAPHIC KEY

BUILDING IN SCOPE
EXISTING CONSTRUCTION TO REMAIN
RESTROOM IN SCOPE
U PARKING PERMIT REQUIRED SIGN
PROPERTY LINE
T TOW-AWAY SIGN
DA D.A. PATH OF TRAVEL
D.A. PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND 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. D.A. PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM HEIGHT AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL ABOVE 27" AND BELOW 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.
(E) F.H. EXISTING FIRE HYDRANT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

aedis architects
www.aedisarchitects.com
333 W Santa Clara St # 900
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT
SOLANO CCD SWING SPACE
SOLANO COMMUNITY COLLEGE
SOLANO COMMUNITY COLLEGE DISTRICT

CONSULTANT

STAMP
LICENSED ARCHITECT JOSEPH A. [illegible] NO. C-[illegible] REG. 11/30/24 STATE OF CALIFORNIA

STATE
DSA FILE NUMBER 48- C1
APPL # 02-122153

REVISIONS

No.	Description	Date

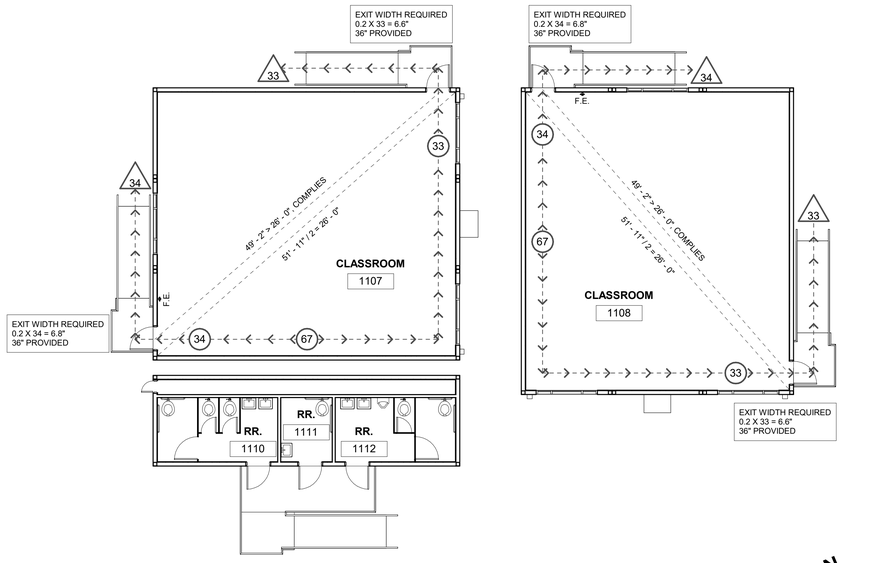
MILESTONES

SD	12.13.2023
DD	01.17.2024
50% CD	02.09.2024
90% CD	02.21.2024
DSA SUB	03.06.2024

SHEET
NEW SITE PLAN

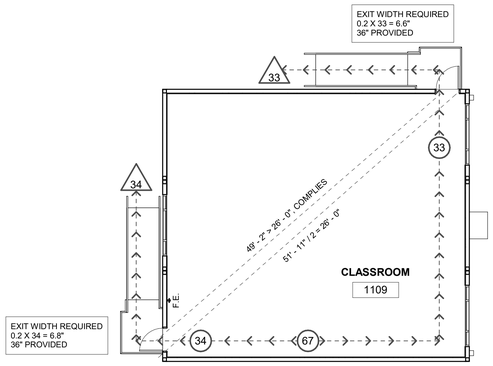
DATE 03/06/24
JOB # 2023052
SHEET # A0.02

3/6/2024 12:17:36 PM



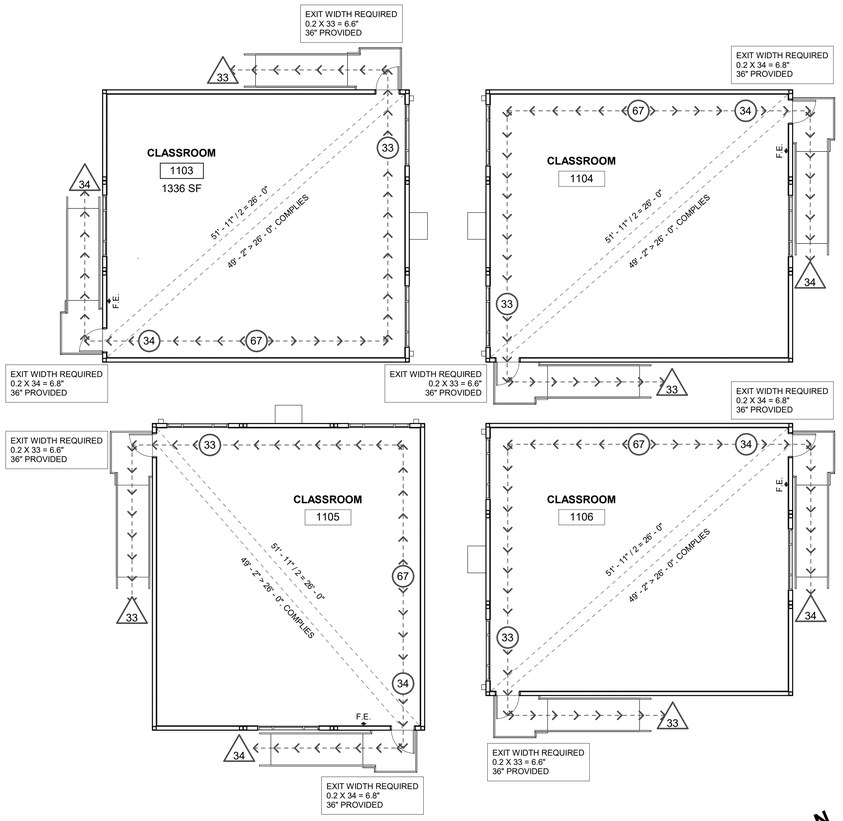
2 EXIT ANALYSIS - BUILDING CLUSTER B

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



3 EXIT ANALYSIS - BUILDING C

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



1 EXIT ANALYSIS - BUILDING CLUSTER A

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

EXITING ANALYSIS

NUMBER	NAME	AREA	OCCUPANCY GROUP	OCCUPANCY LOAD FACTOR, SF/OCC.	OCCUPANT LOAD	EXIT WIDTH REQUIRED, (INCHES)	REQ. # OF EXITS	EXIT WIDTH PROVIDED, (INCHES)
1103	CLASSROOM	1336 SF	B	20	67	13.4	2	72
1104	CLASSROOM	1336 SF	B	20	67	13.4	2	72
1105	CLASSROOM	1336 SF	B	20	67	13.4	2	72
1106	CLASSROOM	1336 SF	B	20	67	13.4	2	72
1107	CLASSROOM	1336 SF	B	20	67	13.4	2	72
1108	CLASSROOM	1336 SF	B	20	67	13.4	2	72
1109	CLASSROOM	1336 SF	B	20	67	13.4	2	72

NOTE:
*EGRESS WIDTH CALCULATED AS OCCUPANT LOAD x 0.2" FOR ALL ROOMS EXCEPT STAIRS, WHICH ARE CALCULATED AS OCCUPANT LOAD x 0.3", PER C.B.C. 1005.3.1, OR 48" CLEAR BETWEEN HANDRAILS PER C.B.C. 1007.3, WHICHEVER IS MORE STRINGENT.

GRAPHIC KEY

WALL TYPES:

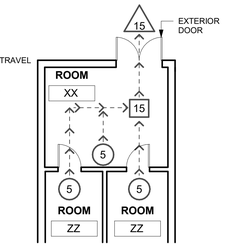
NEW STUD WALL, SEE MODULAR DRAWING SETS

EXIT ANALYSIS PATH OF TRAVEL

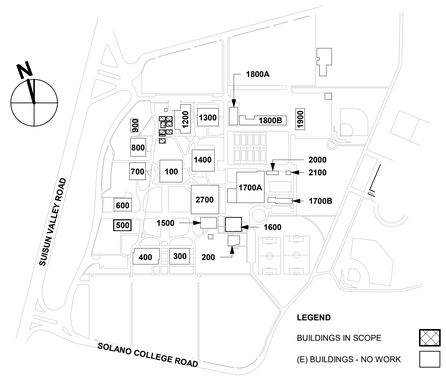
ROOM OCCUPANT LOAD

COMBINED OCCUPANT LOAD

TOTAL FLOOR OCCUPANT LOAD



BUILDING KEY



LEGEND

BUILDINGS IN SCOPE

(E) BUILDINGS - NO WORK

BUILDING CODE ANALYSIS (PER 2022 C.B.C.)

BUILDING CLUSTER A

BUILDING CONSTRUCTION TYPE

TYPE V-B	REQ. FIRE RESISTANCE RATING (PER CBC TABLE 601)
PRIMARY STRUCTURAL FRAME	0 HR
EXTERIOR BEARING WALLS	0 HR
INTERIOR BEARING WALLS	0 HR
EXTERIOR NON-BEARING WALLS	0 HR
INTERIOR NON-BEARING WALLS	0 HR
FLOORS & FLOOR CEILINGS	0 HR
ROOFS & ROOF CEILINGS	0 HR

SPRINKLER SYSTEM

NON-SPRINKLERED

REQUIRED OCCUPANCY SEPARATION

NO OCCUPANCY SEPARATION REQUIRED

BUILDING HEIGHT ANALYSIS

PER SEC. 504.3, EACH STORY SHALL INDIVIDUALLY COMPLY WITH THE REQUIREMENTS.

BUILDING OCCUPANCY	B
TOTAL HEIGHT:	12'-6", 1 STORY
ALLOWABLE HEIGHT:	40'-0", 2 STORY

= 12'-6" < 40'-0" THEREFORE OK

BUILDING AREA ANALYSIS

STORIES (1)	OCCUPANCY	BASIC ALL. AREA	ACTUAL FLOOR AREA	TOTAL ALLOWABLE AREA* (SEC. 506.3)	TOTAL AREA RATIO	CONCLUSION
INTERIOR						
BUILDING	B	9,000SF	6,394 SF	Aa = {At + [NS x If]} Aa = 9,000 + [9,000 x 0] Aa = 9,000 SF	actual/ allowable 6,394 / 9,000 = 0.71	0.71 <1 = OK
TOTAL OCCUPANCY AREA =			6,394 SF			

BUILDING CLUSTER B

BUILDING CONSTRUCTION TYPE

TYPE V-B	REQ. FIRE RESISTANCE RATING (PER CBC TABLE 601)
PRIMARY STRUCTURAL FRAME	0 HR
EXTERIOR BEARING WALLS	0 HR
INTERIOR BEARING WALLS	0 HR
EXTERIOR NON-BEARING WALLS	0 HR
INTERIOR NON-BEARING WALLS	0 HR
FLOORS & FLOOR CEILINGS	0 HR
ROOFS & ROOF CEILINGS	0 HR

SPRINKLER SYSTEM

NON-SPRINKLERED

REQUIRED OCCUPANCY SEPARATION

NO OCCUPANCY SEPARATION REQUIRED

BUILDING HEIGHT ANALYSIS

PER SEC. 504.3, EACH STORY SHALL INDIVIDUALLY COMPLY WITH THE REQUIREMENTS.

BUILDING OCCUPANCY	B
TOTAL HEIGHT:	12'-6", 1 STORY
ALLOWABLE HEIGHT:	40'-0", 2 STORY

= 12'-6" < 40'-0" THEREFORE OK

BUILDING AREA ANALYSIS

STORIES (1)	OCCUPANCY	BASIC ALL. AREA	ACTUAL FLOOR AREA	TOTAL ALLOWABLE AREA* (SEC. 506.3)	TOTAL AREA RATIO	CONCLUSION
INTERIOR						
BUILDING	B	9,000SF	3,613 SF	Aa = {At + [NS x If]} Aa = 9,000 + [9,000 x 0] Aa = 9,000 SF	actual/ allowable 3,613 / 9,000 = 0.40	0.40 <1 = OK
TOTAL OCCUPANCY AREA =			3,613 SF			

BUILDING C

BUILDING CONSTRUCTION TYPE

TYPE V-B	REQ. FIRE RESISTANCE RATING (PER CBC TABLE 601)
PRIMARY STRUCTURAL FRAME	0 HR
EXTERIOR BEARING WALLS	0 HR
INTERIOR BEARING WALLS	0 HR
EXTERIOR NON-BEARING WALLS	0 HR
INTERIOR NON-BEARING WALLS	0 HR
FLOORS & FLOOR CEILINGS	0 HR
ROOFS & ROOF CEILINGS	0 HR

SPRINKLER SYSTEM

NON-SPRINKLERED

REQUIRED OCCUPANCY SEPARATION

NO OCCUPANCY SEPARATION REQUIRED

BUILDING HEIGHT ANALYSIS

PER SEC. 504.3, EACH STORY SHALL INDIVIDUALLY COMPLY WITH THE REQUIREMENTS.

BUILDING OCCUPANCY	B
TOTAL HEIGHT:	12'-6", 1 STORY
ALLOWABLE HEIGHT:	40'-0", 2 STORY

= 12'-6" < 40'-0" THEREFORE OK

BUILDING AREA ANALYSIS

STORIES (1)	OCCUPANCY	BASIC ALL. AREA	ACTUAL FLOOR AREA	TOTAL ALLOWABLE AREA* (SEC. 506.3)	TOTAL AREA RATIO	CONCLUSION
INTERIOR						
BUILDING	B	9,000SF	1,598 SF	Aa = {At + [NS x If]} Aa = 9,000 + [9,000 x 0] Aa = 9,000 SF	actual/ allowable 1,598 / 9,000 = 0.18	0.18 <1 = OK
TOTAL OCCUPANCY AREA =			1,598 SF			

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

aedis architects
www.aedisarchitects.com
333 W Santa Clara St # 900
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

SOLANO CCD SWING SPACE

SOLANO COMMUNITY COLLEGE DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT JOSEPH A. DIAZ NO. C-30888 REN. 11/30/25 STATE OF CALIFORNIA

STATE

DSA FILE NUMBER 48- C1

APPL # 02-122153

REVISIONS

No.	Description	Date

MILESTONES

SD	12.13.2023
DD	01.17.2024
50% CD	02.09.2024
90% CD	02.21.2024
DSA SUB	03.06.2024

SHEET

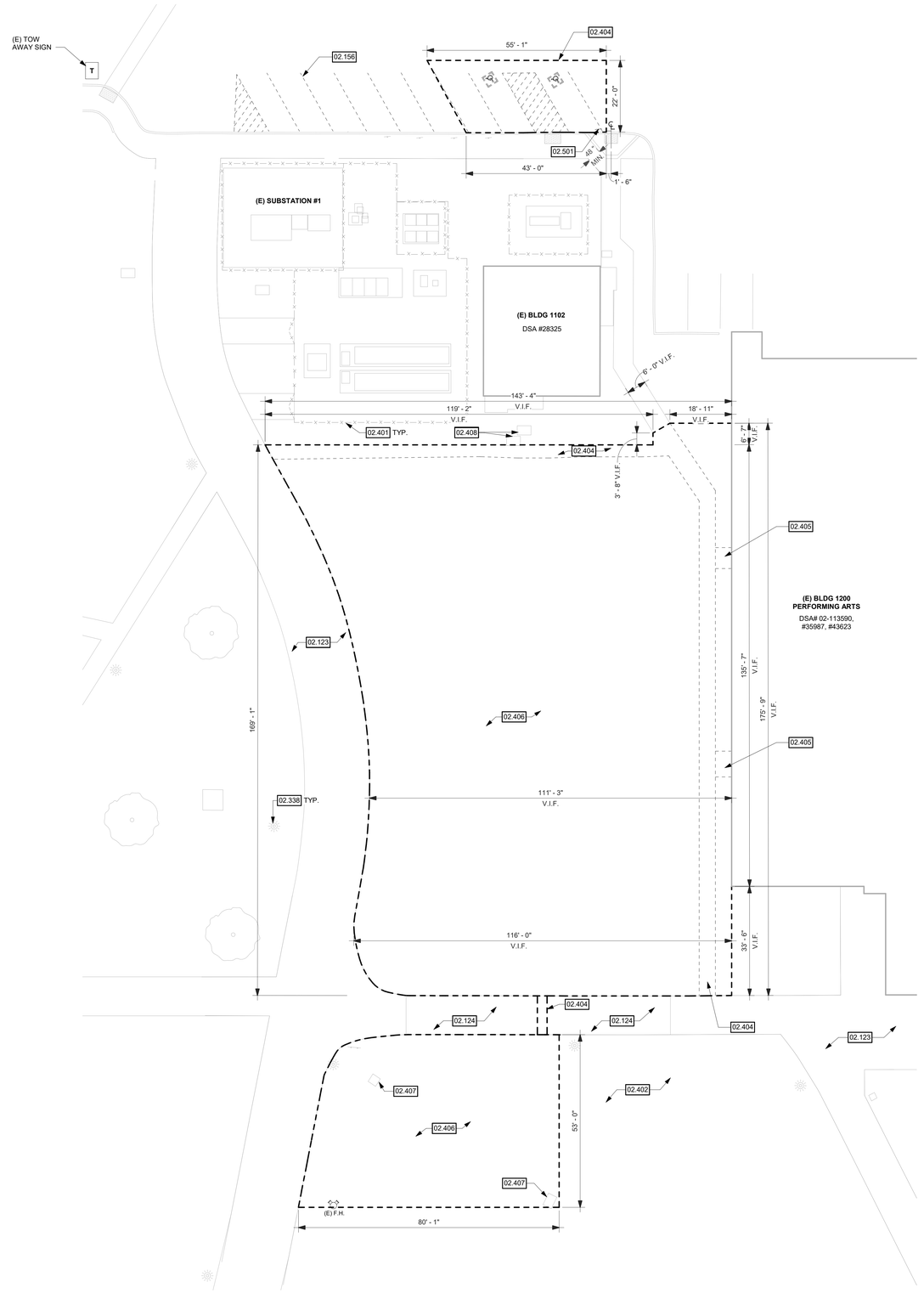
EXIT ANALYSIS AND BUILDING CODE ANALYSIS

DATE 03/06/24

JOB # 2023052

SHEET # A0.03

3/6/2024 12:17:37 PM



1 **ENLARGED DEMO SITE PLAN**
SCALE: 1/16" = 1'-0"

GENERAL SHEET NOTES

A 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-206.

B CONTRACTOR SHALL MAINTAIN FIRE LANE ACCESS THROUGHOUT PROJECT.

C CONTRACTOR TO COORDINATE WITH LOCAL FIRE MARSHALL, CITY, AND DISTRICT FOR THE INSTALLATION OF FIRE HYDRANTS AND FIRE SPRINKLER SYSTEMS. NEW FIRE HYDRANTS ARE TO BE INSTALLED AND OPERATIONAL PRIOR TO STORING COMBUSTIBLE MATERIAL ON SITE PER CFC SECTION 1412. AN APPROVED TEMPORARY WATER SUPPLY FOR FIRE PROTECTION SHALL BE PROVIDED IF PERMANENT SOURCE IS NOT AVAILABLE.

D DO NOT INTERRUPT EXISTING UTILITY SERVICES SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AND COORDINATED WITH THE OWNER.

E PROTECT EXISTING & NEW STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, TREES AND SHRUBS FROM DAMAGE DURING CONSTRUCTION.

F REFER TO MODULAR AND ELECTRICAL DRAWINGS FOR EXTENT OF STRUCTURAL AND ELECTRICAL WORK.

G THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NON-COMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.
DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

H ALL ITEMS REFERENCED IN KEYNOTES ARE TO BE PROVIDED NEW, U.O.N.

I FOR UTILITY TRENCHES, CONTRACTOR TO REFER TO BOTH CIVIL AND ELCTRICAL DRAWINGS. COORDINATE EXACT TRENCH LOCATION IN THE FIELD

DEMOLITION SITE PLAN KEYNOTES

02.123	(E) CONCRETE PAVING
02.124	(E) ASPHALT PAVING
02.156	SLURRY OVER (E) STRIPPING, S.C.D. FOR AREA EXTENT
02.338	(E) LAMP POST TO REMAIN, TYP.
02.401	(E) CHAINLINK FENCE TO REMAIN
02.402	(E) GRASS AREA
02.404	DEMO (E) ASPHALT PAVING, S.C.D.
02.405	DEMO (E) CONCRETE PAVING, S.C.D.
02.406	DEMO (E) VEGETATION, REMOVE ANY IRRIGATION LINES OR VALVES, S.C.D.
02.407	(E) INLET TO REMAIN
02.408	(E) PULLBOX TO REMAIN
02.501	REMOVE (E) PARKING SIGN, REPLACE WITH NEW PER NEW ENLARGED SITE PLAN

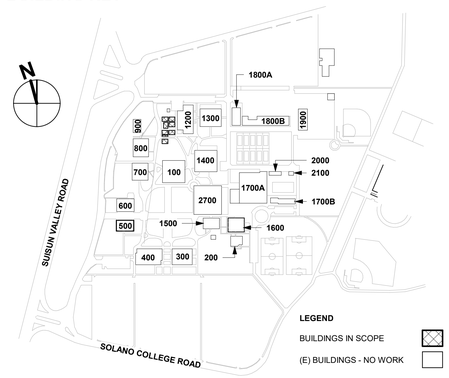
GRAPHIC KEY

EXISTING TO BE DEMOLISHED

EXISTING CONSTRUCTION TO REMAIN

EXISTING CHAINLINK FENCE TO REMAIN

BUILDING KEY



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

aedis architects
www.aedisarchitects.com
333 W Santa Clara St # 900
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT
SOLANO CCD
SWING SPACE
SOLANO COMMUNITY COLLEGE
SOLANO COMMUNITY COLLEGE DISTRICT

CONSULTANT

STAMP
LICENSED ARCHITECT JOSEPH A. DI PIETRO NO. C-26000 STATE OF CALIFORNIA REN. 11/31/25

STATE
DSA FILE NUMBER 48- C1
APPL # 02-122153

REVISIONS

No.	Description	Date

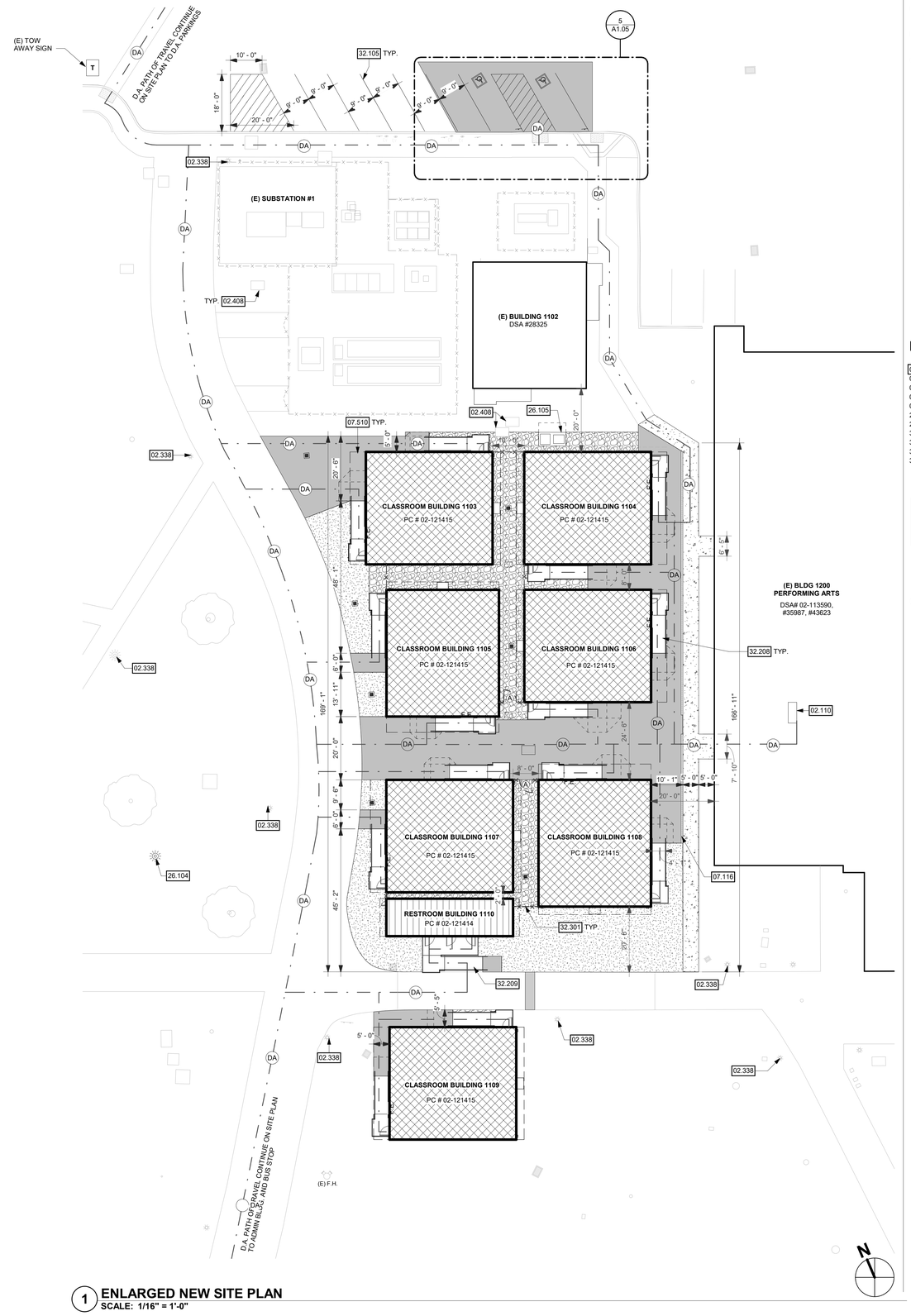
MILESTONES

SD	12.13.2023
DD	01.17.2024
50% CD	02.09.2024
90% CD	02.21.2024
DSA SUB	03.06.2024

SHEET
ENLARGED DEMO SITE PLAN

DATE 03/06/24
JOB # 2023052
SHEET # A1.01

3/6/2024 12:17:37 PM



1 **ENLARGED NEW SITE PLAN**
SCALE: 1/16" = 1'-0"

GENERAL SHEET NOTES

A 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-206.

B CONTRACTOR SHALL MAINTAIN FIRE LANE ACCESS THROUGHOUT PROJECT.

C CONTRACTOR TO COORDINATE WITH LOCAL FIRE MARSHALL, CITY, AND DISTRICT FOR THE INSTALLATION OF FIRE HYDRANTS AND FIRE SPRINKLER SYSTEMS. NEW FIRE HYDRANTS ARE TO BE INSTALLED AND OPERATIONAL PRIOR TO STORING COMBUSTIBLE MATERIAL ON SITE PER CFC SECTION 1412. AN APPROVED TEMPORARY WATER SUPPLY FOR FIRE PROTECTION SHALL BE PROVIDED IF PERMANENT SOURCE IS NOT AVAILABLE.

D DO NOT INTERRUPT EXISTING UTILITY SERVICES SERVING OCCUPIED OR USED FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AND COORDINATED WITH THE OWNER.

E PROTECT EXISTING & NEW STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, TREES AND SHRUBS FROM DAMAGE DURING CONSTRUCTION.

F REFER TO MODULAR AND ELECTRICAL DRAWINGS FOR EXTENT OF STRUCTURAL AND ELECTRICAL WORK.

G THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NON-COMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.
DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

H ALL ITEMS REFERENCED IN KEYNOTES ARE TO BE PROVIDED NEW, U.O.N.

I FOR UTILITY TRENCHES, CONTRACTOR TO REFER TO BOTH CIVIL AND ELCTRICAL DRAWINGS. COORDINATE EXACT TRENCH LOCATION IN THE FIELD

NEW SITE PLAN KEYNOTES

02.110 (E) D.A. HI-LO DRINKING FOUNTAIN. DSA #02-113590
02.338 (E) LAMP POST TO REMAIN, TYP.
02.408 (E) PULLBOX TO REMAIN
07.116 TRENCH DRAIN, S.C.D.
07.510 ROOF OVERHANG
26.104 LIGHT POLE, S.E.D.
26.105 TRANSFORMER AND DISTRIBUTION PANEL ON CONCRETE PAD. S.E.D.
32.105 PARKING STRIPING
32.208 ACCESSIBLE RAMP, SEE MOBILE MODULAR DRAWING SET #02-121415, SHEET S10.0
32.209 ACCESSIBLE RAMP, SEE QUICK DECK MFR. DWG. #04-122493, SHEET S6
32.301 6' TALL VINYL-COATED CHAIN LINK FENCE. SEE DETAIL 11 / A1.05

NEW GATE SCHEDULE

GATE TYPE	WIDTH	HEIGHT	PANIC	MATERIAL	D.A.	USE	DETAIL
A	48"	6' - 0"	NO	CHAINLINK	NO	MAINT.	10 / A1.05

GRAPHIC KEY

BUILDING IN SCOPE

NEW TOILET ROOMS. REFER TO NOTES FOR ADDITIONAL INFORMATION.

EXISTING BUILDING TO REMAIN

ASPHALT PAVING

CONCRETE PAVING

COMPACTED AGGREGATE

BULK MULCH

EXISTING CHAINLINK FENCE TO REMAIN

CHAINLINK FENCE

(E) F.H. EXISTING FIRE HYDRANT

DA D.A. PATH OF TRAVEL

D.A. PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND 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. D.A. PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM HEIGHT AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL ABOVE 27" AND BELOW 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

aedis architects
www.aedisarchitects.com
333 W Santa Clara St # 900
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT
SOLANO CCD
SWING SPACE
SOLANO COMMUNITY COLLEGE
SOLANO COMMUNITY COLLEGE DISTRICT

CONSULTANT

STAMP
LICENSED ARCHITECT JOSEPH A. [illegible] STATE OF CALIFORNIA
NO. C-[illegible] EXP. 11/30/[illegible]

STATE
DSA FILE NUMBER 48- C1
APPL # 02-122153

REVISIONS

No.	Description	Date
△		

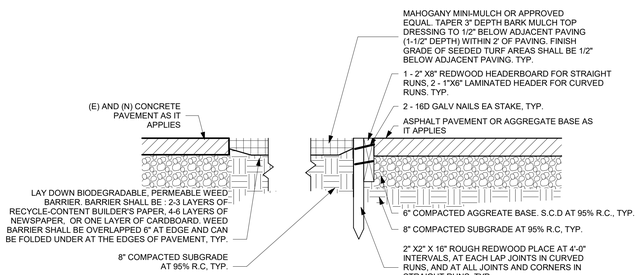
MILESTONES

SD	12.13.2023
DD	01.17.2024
50% CD	02.09.2024
90% CD	02.21.2024
DSA SUB	03.06.2024

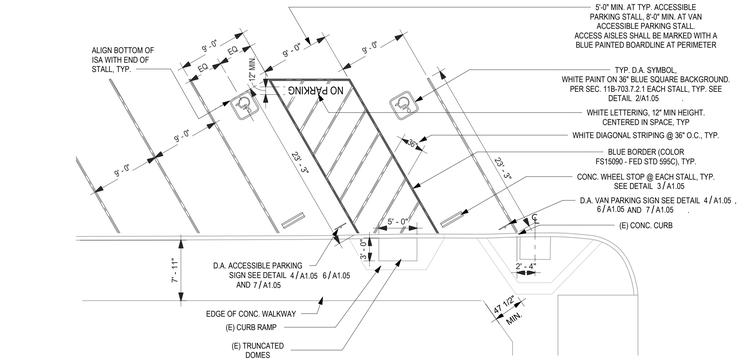
SHEET
ENLARGED NEW SITE PLAN

DATE 03/06/24
JOB # 2023052
SHEET # A1.02

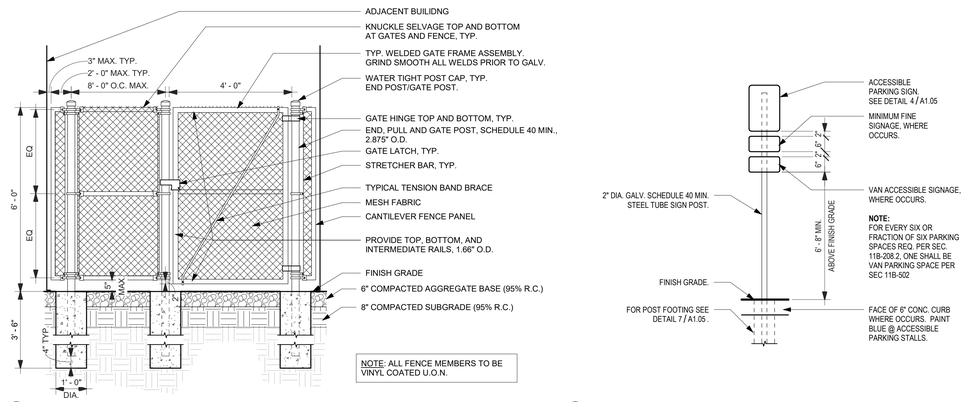
3/7/2024 12:30:42 PM



9 HEADERBOARD @ MULCH AREA
SCALE: 1" = 1'-0"

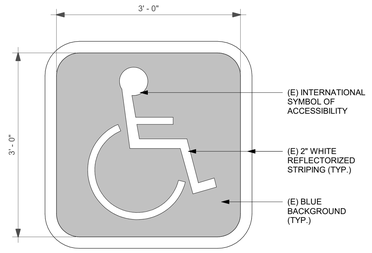


5 D.A. PARKING STALL
SCALE: 1/8" = 1'-0"

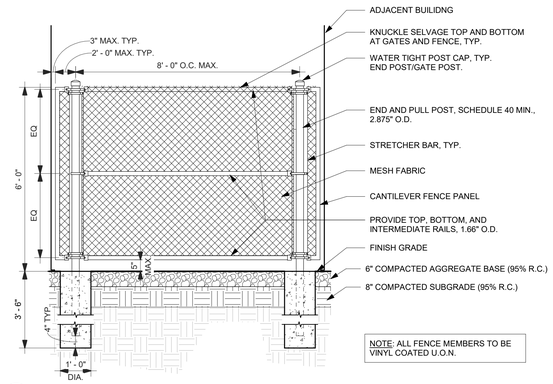


10 CHAIN-LINK FENCE & SERVICE GATE
SCALE: 1/2" = 1'-0"

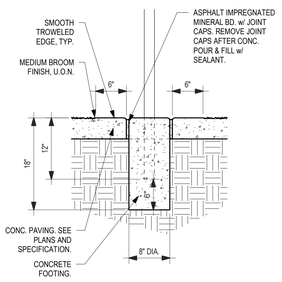
6 SITE SIGNAGE MOUNT
SCALE: 1/2" = 1'-0"



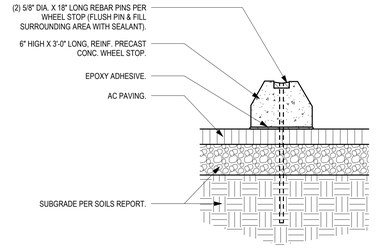
2 ACCESSIBLE SYMBOL
SCALE: 1" = 1'-0"



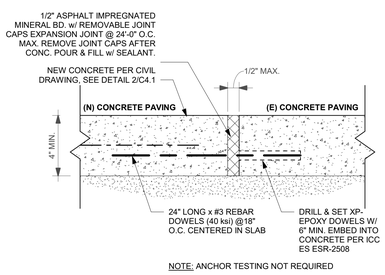
11 CHAIN-LINK FENCE
SCALE: 1/2" = 1'-0"



7 SITE SIGNAGE FOOTING
SCALE: 1" = 1'-0"

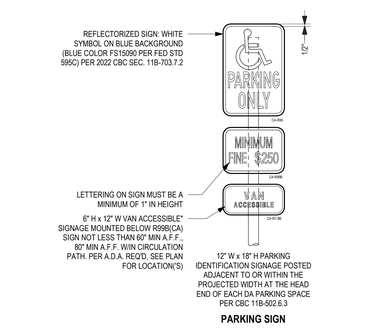


3 TYPICAL CONCRETE WHEEL STOP
SCALE: 1 1/2" = 1'-0"



NOTE: ANCHOR TESTING NOT REQUIRED

8 NEW TO EXISTING CONCRETE PAVING
SCALE: 3" = 1'-0"



PARKING SIGN

NOTE:
1. ALL SIGNS MUST HAVE REFLECTORIZED SURFACE FINISH
2. MOUNTING HEIGHTS SEE DETAIL

4 ACCESSIBLE PARKING SIGNS
SCALE: 1" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

aedis architects
www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

SOLANO CCD SWING SPACE

SOLANO COMMUNITY COLLEGE

SOLANO COMMUNITY COLLEGE DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT JOSEPH A. [illegible] NO. [illegible] REN. 11/31/25 STATE OF CALIFORNIA

STATE

DSA FILE NUMBER

APPL #

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	12.13.2023
DD	01.17.2024
50% CD	02.09.2024
90% CD	02.21.2024
DSA SUB	

SHEET

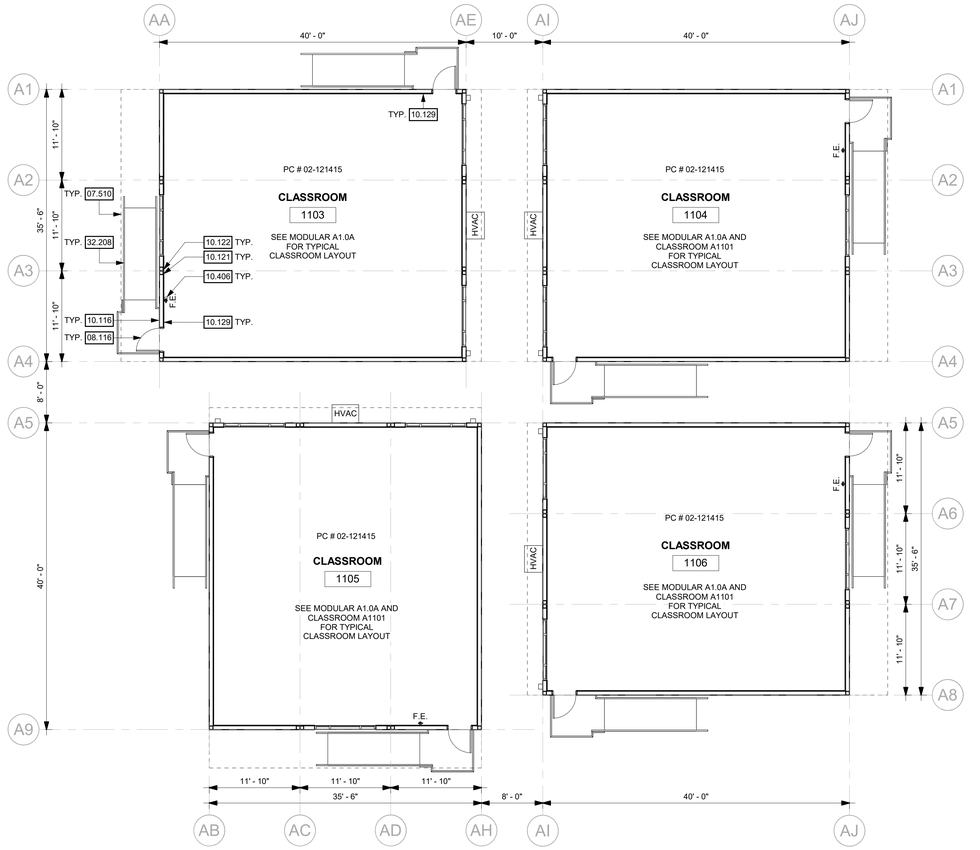
SITE DETAILS

DATE 03/06/24

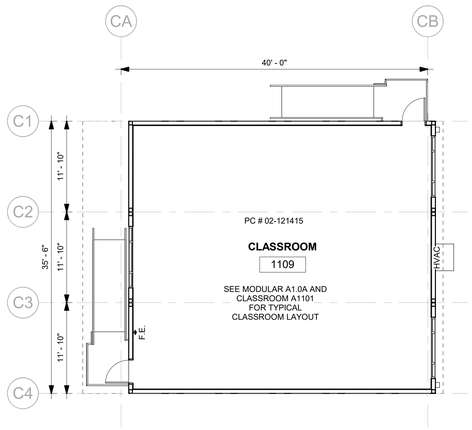
JOB # 2023052

SHEET # A1.05

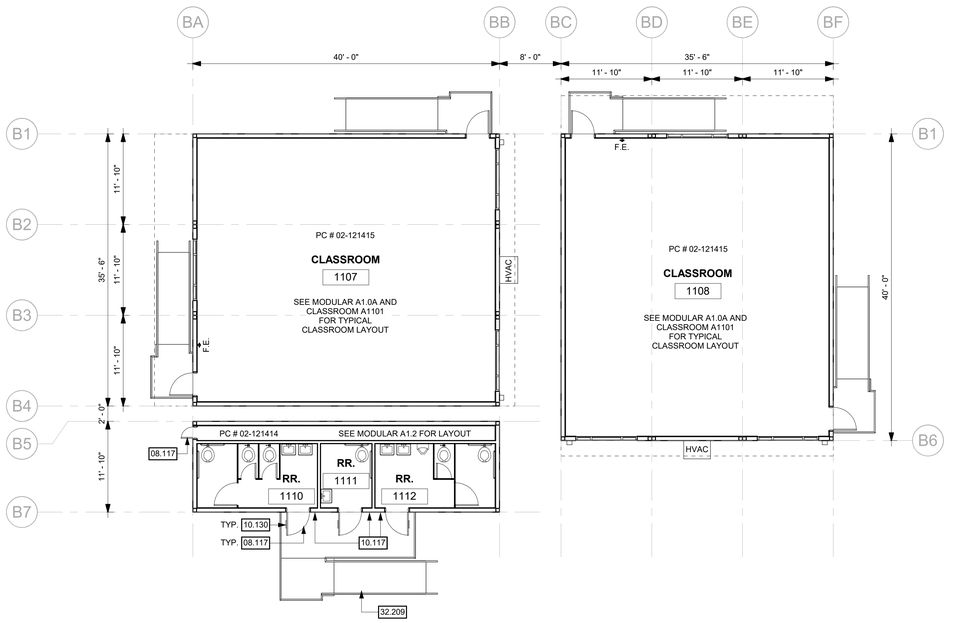
3/6/2024 12:17:38 PM



1 NEW FLOOR PLAN - BUILDING CLUSTER A
SCALE: 1/8" = 1'-0"



3 NEW FLOOR PLAN - BUILDING C
SCALE: 1/8" = 1'-0"



2 NEW FLOOR PLAN - BUILDING CLUSTER B
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

A GENERAL CONTRACTOR TO PROVIDE ALL SIGNAGE IN LOCATION SHOWN FOR EACH BUILDING, REFER TO MODULAR DRAWINGS AND SHEET A10.01

B REFER TO MODULAR, CIVIL AND ELECTRICAL DRAWINGS FOR EXTENT OF STRUCTURAL, CIVIL AND ELECTRICAL WORK.

KEYNOTES

07.510	ROOF OVERHANG
08.116	FOR DOOR TYPE, SEE MOBILE MODULAR DRAWING SET #02-121415, SHEET N3.0
08.117	FOR DOOR TYPE, SEE MOBILE MODULAR DRAWING SET #02-121414, SHEET N3.0
10.116	ROOM SIGNAGE AND I.S.A. SEE DETAIL ID.03/A10.01 AND MOBILE MODULAR DWG. SET #02-121415 SHEET N4.0 FOR SIGNAGE MOUNTING LOCATION AND HEIGHT
10.117	TOILET ROOM SIGNAGE. SEE DETAIL CD.01a/A10.01 AND MOBILE MODULAR DWG. SET #02-121414 SHEET N4.0 FOR SIGNAGE MOUNTING LOCATION AND HEIGHT
10.121	ASSISTIVE LISTENING SIGNAGE, SEE DETAIL CD.07a/A10.01 AND MOBILE MODULAR DWG. SET #02-121415 SHEET N4.0 FOR SIGNAGE MOUNTING LOCATION AND HEIGHT
10.122	OCCUPANCY LOAD SIGN.SEE DETAIL CD.07b/A10.01 AND MOBILE MODULAR DWG. SET #02-121415 SHEET N4.0 FOR SIGNAGE MOUNTING LOCATION AND HEIGHT
10.129	TACTILE EXIT SIGN. SEE DETAIL CD.05a/A10.01 AND MOBILE MODULAR DWG. SET #02-121415 SHEET N4.0 FOR SIGNAGE MOUNTING LOCATION AND HEIGHT
10.130	TOILET DOOR SIGNAGE. SEE DETAIL CD.02a, b & c /A10.01 AND MOBILE MODULAR DWG. SET #02-121414 SHEET N4.0 FOR SIGNAGE MOUNTING LOCATION AND HEIGHT
10.406	FIRE EXTINGUISHER, TOP OF HANDLE @ 48" A.F.F.
32.208	ACCESSIBLE RAMP, SEE MOBILE MODULAR DRAWING SET #02-121415, SHEET S10.0
32.209	ACCESSIBLE RAMP, SEE QUICK DECK MFR. DWG. #04-122493, SHEET S6

PLUMBING FIXTURE COUNT

FIXTURES	WOMEN	MEN	TOTAL
POPULATION	158	158	316
REQUIRED: WATER CLOSETS	8	3	11
URINALS	N/A	2	2
LAVATORIES	4	3	7
DRINKING FOUNTAINS	3 TOTAL		
PROVIDED: WATER CLOSETS	8	5	12
URINALS	N/A	2	2
LAVATORIES	6	6	11
DRINKING FOUNTAINS	4 TOTAL (WATER STATIONS PER CBC 415.2 & TABLE 422.1)		

*PER CPC TABLE 422.1 NOTE 3

GRAPHIC KEY

WALL TYPES

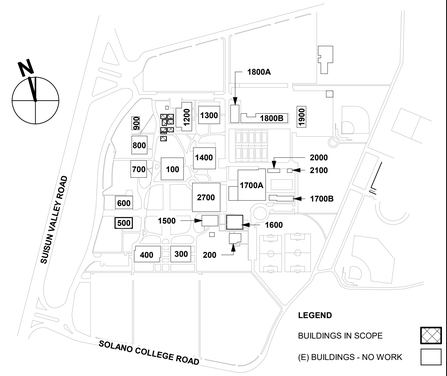
NEW WALL - SEE MODULAR MANUFACTER DWGS

DOOR SIGNAGE. SEE MODULAR MANUFACTER DWGS AND SEE SIGNAGE DETAIL SHEET ON A10.01

F.E. (N) WALL-MOUNTED FIRE EXTINGUISHER

FIRE EXTINGUISHER

BUILDING KEY



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

aedis architects
www.aedisarchitects.com
333 W Santa Clara St # 900
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

SOLANO CCD SWING SPACE

SOLANO COMMUNITY COLLEGE DISTRICT

CONSULTANT

STAMP

LICENSED ARCHITECT JOSEPH A. [illegible] EXP. 11/30/25 STATE OF CALIFORNIA
NO COPY

STATE	48- C1
DSA FILE NUMBER	02-122153
APPL #	

REVISIONS

No.	Description	Date
△		

MILESTONES

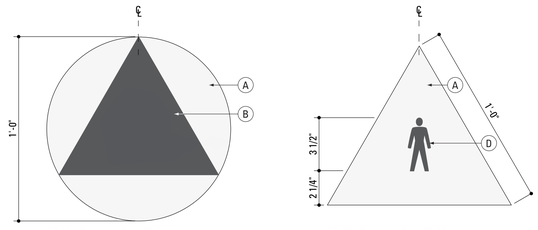
SD	12.13.2023
DD	01.17.2024
50% CD	02.09.2024
90% CD	02.21.2024
DSA SUB	03.06.2024

SHEET

NEW FLOOR PLAN

DATE	03/06/24
JOB #	2023052
SHEET #	A3.01

3/5/2024 3:38:49 PM

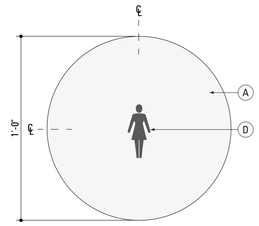


CD.02a: Restroom Door ID, Unisex

Scale: 3"=1'-0"

CD.02b: Restroom Door ID, Men

Scale: 3"=1'-0"



CD.02c: Restroom Door ID, Women

Scale: 3"=1'-0"

CD.02

Restroom Door ID

The Restroom Door ID satisfies California regulations for graphically identifying restroom doors.

CITE CODE

A. 1/4" thick M-1 backpainted to match C-1.
B. 1/4" thick M-1 backpainted to match C-3 permanently adhered to A.
D. Screenprinted graphics on first surface to match C-3.

Secure to door with VHB tape.

SEE MOBILE MODULAR DWG. SET #02-121414 SHEET N4.0 FOR SIGNAGE MOUNTING LOCATION AND HEIGHT

Colors

C-1
BM 2134-70
Genesis White

C-2
BM 2134-60
Whitestone

C-3
BM 2134-20
Midsummer Night

C-4
Federal Standard Blue

C-5
OSHA Safety Red

Materials

M-1
Colorless Acrylite P95

M-2
Horizontal brushed aluminum

R-1
Rowmark 311-307
Charcoal Gray

R-2
Rowmark LG311-9118
Photoluminescent

R-3
Rowmark 311-204
Bright White

V-1
3M Vinyl
White

V-2
3M Vinyl
Dark Grey

V-3
3M Vinyl
Intense Blue

V-4
3M Vinyl
Tomato Red

Logo Motif

L-1
Primary logo motif

L-2
Secondary logo motif

Typefaces

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz.1234567890
Avenir Next Regular

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz.1234567890
Avenir Next Demi Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz.1234567890
Avenir Next Bold

Symbols

Graphic Elements

CD.05a: Exit ID

Scale: Half size

CD.05

Egress ID

Egress IDs Identify stairwells and exit routes. Where required, signs should be photoluminescent. Requirements may be found in the NFPA Life Safety Code §7.10.8.3 and the California Building Code §1022.9.

A. 1/4" thick M-1 backpainted to match C-1.
B. Tactile Type and graphics, R-1, with clear contracted Grade II bead Braille.
C. 1/4" thick M-1 with R-2 sheet applied to surface.

Secure to wall with VHB tape.

SEE MOBILE MODULAR DWG. SET #02-121415 SHEET N4.0 FOR SIGNAGE MOUNTNG LOCATION AND HEIGHT

ID.03: Secondary ID

Scale: Half size

ID.03

Secondary Room ID

The Secondary Room ID provides a multi-line sign for rooms with permanent names or designations, such as conference rooms, labs, and electrical rooms.

Note: Together with ID.05, these will be the most commonly room identification sign.

A. 1/4" thick M-1 backpainted to match C-1.
B. Tactile Type, R-1, with clear contracted Grade II bead Braille.

Secure to wall with VHB tape. When mounting to glass, provide V-2 backer on first surface to match size of sign.

SEE MOBILE MODULAR DWG. SET #02-121415 SHEET N4.0 FOR SIGNAGE MOUNTNG LOCATION AND HEIGHT

CD.07a: Informational Plaque

Scale: Half size

CD.07a: Occupancy Load Sign

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

CD.07

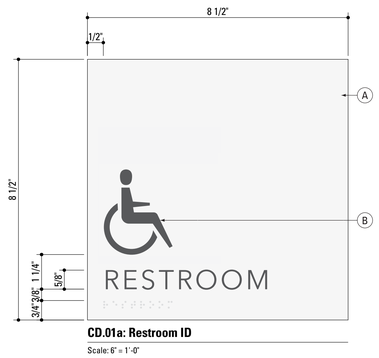
Informational Plaque

The Informational Plaque provides additional information such as notices and warnings.

A. 1/4" thick M-1 backpainted to match C-1.
B. Screenprinted text graphics on first surface to match C-3.

Secure to wall with VHB tape.

SEE MOBILE MODULAR DWG. SET #02-121415 SHEET N4.0 FOR SIGNAGE MOUNTNG LOCATION AND HEIGHT



CD.01a: Restroom ID

Scale: 6" = 1'-0"

CD.01a: Additional Layouts

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

CD.01

Restroom ID

The Restroom ID is used to identify restroom entrances.

A. 1/4" thick M-1 backpainted to match C-1.
B. Tactile Type and graphics, R-1, with clear contracted Grade II bead Braille.

Secure to wall with VHB tape.

SEE MOBILE MODULAR DWG. SET #02-121414 SHEET N4.0 FOR SIGNAGE MOUNTNG LOCATION AND HEIGHT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

aedis architects
www.aedisarchitects.com
333 W Santa Clara St # 900
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT
SOLANO CCD
SWING SPACE

SOLANO COMMUNITY COLLEGE

SOLANO COMMUNITY COLLEGE DISTRICT

CONSULTANT

STAMP

STATE
DSA FILE NUMBER
APPL #

REVISIONS

No.	Description	Date
△		

MILESTONES

SD	12.13.2023
DD	01.17.2024
50% CD	02.09.2024
90% CD	02.21.2024
DSA SUB	03.06.2024

SHEET
SIGNAGE DISTRICT STANDARDS

DATE 03/06/24
JOB # 2023052
SHEET # A10.01

2/27/2024 1:06:40 PM

American Modular Systems

SERIAL NUMBERS:
23-100-001 THROUGH 23-100-020

MMM - STOCKPILE
(20) 12' x 40' RESTROOM BUILDINGS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING
FORM®

SITE SPECIFIC PROJECT NAME
MMM
STOCKPILE
(20) 12'x40' BUILDINGS

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2019

- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC) - PART 1, TITLE 24, CCR)
- 2019 CALIFORNIA BUILDING CODE (CBC), VOLUME 1 & 2 - (PART 2, TITLE 24 CCR) BASED ON THE 2018 INTERNATIONAL BUILDING CODE WITH 2019 CALIFORNIA AMENDMENTS
- 2019 CALIFORNIA ELECTRICAL CODE (CEC) - (PART 3, TITLE 24, CCR) BASED ON THE 2017 NATIONAL ELECTRIC CODE WITH 2019 CALIFORNIA AMENDMENTS
- 2019 CALIFORNIA MECHANICAL CODE (CMC) - (PART 4, TITLE 24, CCR) BASED ON THE 2018 UNIFORM MECHANICAL CODE WITH 2019 CALIFORNIA AMENDMENTS
- 2019 CALIFORNIA PLUMBING CODE (CPC) - (PART 5, TITLE 24, CCR) BASED ON THE 2018 UNIFORM PLUMBING CODE WITH 2019 CALIFORNIA AMENDMENTS
- 2019 CALIFORNIA ENERGY CODE (CEC) - (PART 6, TITLE 24, CCR) WITH 2019 CALIFORNIA AMENDMENTS
- 2019 CALIFORNIA FIRE CODE (CFC) - (PART 9, TITLE 24, CCR) BASED ON THE 2018 INTERNATIONAL FIRE CODE WITH 2019 CALIFORNIA AMENDMENTS
- 2019 CALIFORNIA GREEN BUILDING CODE (CGC) - (PART 11, TITLE 24, CCR)
- 2019 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)

PARTIAL LIST OF APPLICABLE STANDARDS

• NFPA 13	AUTOMATIC SPRINKLER SYSTEM	2016 EDITION
• NFPA 14	STANDPIPE AND HOSE SYSTEMS	2016 EDITION
• NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
• NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
• NFPA 20	STATIONARY PUMPS	2016 EDITION
• NFPA 24	PRIVATE FIRE MAINS	2016 EDITION
• NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED) (NOTE: SEE UL, STANDARD 1971 FOR "VISUAL DEVICES")	2016 EDITION
• NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2015 EDITION
• NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 EDITION

GENERAL NOTES

1. SUBSTITUTION OF PRODUCTS OR PROCESSES WHICH CHANGE THE STRUCTURAL SAFETY, FIRE & LIFE-SAFETY, OR ACCESSIBILTY OF THIS BUILDING SHALL BE SUBMITTED TO THE DSA AS AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT.
2. PC BUILDING APPROVED ONLY FOR OCCUPANCY "E" OR "B".
3. PC BUILDING EXITING IS BASED ON THE USE OR OCCUPANCY AND WILL BE REVIEWED AS SITE SPECIFIC.
4. PC BUILDINGS LOCATED IN FIRE HAZARD SEVERITY ZONES PER WILDLAND URBAN INTERFACE FIRE AREAS (WUI) SHALL CONFORM TO CBC CHAPTER 7A. PC IS APPROVED FOR WUI.
5. AUTOMATIC SPRINKLER SYSTEMS MIGHT BE REQUIRED FOR SITE SPECIFIC PROJECTS. OPTIONAL AUTOMATIC FIRE SPRINKLER DESIGNS ARE NOT INCLUDED IN THIS PC APPROVAL. (NOTE: SEE BUILDING DATA THIS SHEET FOR FIRE SPRINKLER SYSTEM WEIGHT INCLUDED IN BUILDING DESIGN)
6. FIRE SERVICE UNDERGROUND SHALL BE REVIEWED AS A SITE SPECIFIC APPLICATION. WATER SUPPLY SHALL BE DESIGNED TO MEET THE PC SPRINKLER DEMAND REQUIREMENTS.
7. PROVIDE A SITE SPECIFIC FIRE FLOW LETTER OF CERTIFICATION FROM AN APPROVED WATER PURVEYOR OR LOCAL FIRE AUTHORITY.
8. THIS PC PLAN SHALL NOT BE USED TO HOUSE "ROOMS OR AREAS WITH SPECIAL HAZARDS" SUCH AS LABORATORIES, VOCATIONAL SHOPS AND OTHER SUCH AREAS NOT CLASSIFIED AS GROUP H, LOCATED IN GROUP E OCCUPANCIES.
9. A SEPARATE NON-PC DSA APPLICATION NUMBER (SITE SPECIFIC JOB) IS REQUIRED FOR DESIGN & ROOF-TOP INSTALLATION OF SOLAR PANEL SYSTEMS, ITS ANCHORAGE & SUPPORT STRUCTURE ABOVE THE ROOF FRAMING. THE PC ROOF FRAMING IS DESIGNED FOR SOLAR PANELS TO BE INSTALLED FLAT ON THE ROOF. (NOTE: SEE BUILDING DATA THIS SHEET FOR SOLAR PANEL SYSTEM WEIGHT & WIND LOAD INCLUDED IN BUILDING DESIGN FOR ROOF-TOP.) SUBMITTALS OF ROOF-TOP SOLAR SYSTEM SHALL NOT BE SUBMITTED AS AN OVER-THE-COUNTER SUBMITTAL.
10. IF THE STRUCTURE IS LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F, OVER-THE-COUNTER SUBMITTAL IS NOT ALLOWED AND SITE SPECIFIC PROJECT SUBMITTAL IS REQUIRED. IF THE SITE IS NOT IN A MAPPED LIQUEFACTION HAZARD ZONE, IT MAY BE PRESUMED THAT NO LIQUEFACTION HAZARD EXISTS ON THAT SITE UNLESS A SITE-SPECIFIC GEOTECHNICAL REPORT IDENTIFIES SUCH HAZARD.
11. THIS PC BUILDING IS NOT DESIGNED FOR FLOOD HAZARD AREAS. WHEN A SITE-SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A GEOTHECHNICAL ENGINEER IS NEEDED TO VALIDATE THAT THE ALLOWABLE SOIL VALUES SPECIFIED IN THE PC DRAWINGS ARE STILL APPLICABLE, UNLESS THE BOTTOMS OF FOUNDATIONS ARE RAISED ABOVE THE DESIGN FLOOD ELEVATION. A VALIDATION LETTER FROM THE GEOTHECNICAL ENGINEER SHALL BE PROVIDED, EVEN IF THE PRESUMPTIVE LOAD-BEARING VALUES PER CBC SECTION 1806A.2 ARE USED. PROJECT SHALL BE EXEMPT FROM THE VALIDATION LETTER FOR PROJECTS LOCATED IN ZONE D (UNDEFINED) IF THE APPLICANT PROVIDES EVIDENCE FROM THE LOCAL JURISDICTION OR A QUALIFIED DESIGN PROFESSIONAL CONFIRMING THAT THE SITE IS NOT IN A FLOOD HAZARD ZONE. LOCATION OF ELECTRICAL ELEMENTS SHALL CONFORM TO THE AMERICAN SOCIETY OF CIVIL ENGINEERS.
12. THE PLACEMENT OF THE PC BUILDING(S) ON OR ADJACENT TO SLOPES SHALL COMPLY WITH THE 'FOUNDATION CLEARANCES FROM SLOPES' SPECIFICATIONS FOUND ON SHEET N2.0 OF THESE DRAWINGS.
13. PC BUILDING SHALL NOT BE PLACED OR BE RELOCATED IN AREAS HAVING A NOISE CONTOUR GREATER THAN OR EQUAL TO 65 CNEL, OR IN AREAS EXPOSED TO A NOISE LEVEL OF 65 dB L_{eq}-1-hr DURING ANY HOUR OF OPERATION WHEN NOISE CONTOURS ARE NOT READILY AVAILABLE, AS SPECIFIED IN CALGREEN CODE, SECTION 5.507.4.1 & 5.507.4.1.1.
14. THIS PC BUILDING IS NOT DESIGNED FOR SNOW LOADS.
15. THIS PC BUILDING IS NOT DESIGNED FOR ICE LOADS.
16. BUILDING SHALL BE MANUFACTURED IN COMPLIANCE WITH CFC CHAPTER 33 FOR FIRE SAFETY DURING CONSTRUCTION.
17. SUBMITTAL AND APPROVAL OF A GEOHAZARD REPORT BY THE CALIFORNIA GEOLOGICAL SURVEY (CGS) IS NOT REQUIRED FOR SINGLE-STORY MODULAR BUILDINGS PROVIDED THAT THEY DO NOT EXCEED 4,000 SQUARE FEET IN PLAN AREA AND ARE NOT LOCATED WITHIN STATE OR LOCAL GEOLOGICAL HAZARD ZONES IN ACCORDANCE WITH IR A-4, SECTION 3.2.1.
18. THE DESIGN PROFESSIONAL HAS EXEMPTED RAMPS FROM SPECIAL INSPECTION REQUIREMENTS FOR MATERIAL IDENTIFICATION AND STRUCTURAL WELDING. RAMP SHALL NOT BE MODIFIED NOR HAVE SHIMS ADDED CAUSING THE DISTANCE BETWEEN THE HIGHEST RAMP WALKING SURFACE AND THE ADJACENT GRADE TO BE MORE THAN 30 INCHES. IF THIS CONDITION IS NOT MET, STRUCTURAL TESTING AND/OR INSPECTION WILL BE REQUIRED TO VERIFY MATERIALS AND STRUCTURAL WELDING. THIS APPLIES TO SCOPES OF WORK INCLUDING NEW CONSTRUCTION, ALTERATION, OR RELOCATION OF THE RAMP.

© 2020 BY AMERICAN MODULAR SYSTEMS, INC.

ALL OF THE DRAWINGS AND DETAILS CONTAINED IN THIS PACKAGE ARE THE INTELLECTUAL PROPERTY OF AMS AND MAY NOT BE USED FOR CONSTRUCTION OR DESIGN BY ANOTHER ENTITY WITHOUT THE EXPRESS WRITTEN PERMISSION OF AMS.

COPYRIGHT: © 2020 BY AMERICAN MODULAR SYSTEMS, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC, MECHANICAL, PHOTOCOPYING, RECORDING, OR OTHERWISE, WITHOUT THE PRIOR WRITTEN PERMISSION OF AMERICAN MODULAR SYSTEMS, INC. CERTAIN ELEMENTS CONTAINED IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMERICAN MODULAR SYSTEMS, INC. SHALL REMAIN THE SOLE PROPERTY OF AMERICAN MODULAR SYSTEMS, INC. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMERICAN MODULAR SYSTEM, INC.'S COPYRIGHT OR OTHER RESERVED INTELLECTUAL PROPERTY RIGHTS AND INTERESTS.

BUILDING DATA

OCCUPANCY	E, B			
TYPE OF CONSTRUCTION	V-B (CATEGORY I & II)			
WIND LOAD ASCE 7-16 SECTION28.5.3 SIMPLIFIED PROCEDURE	V = 99 MPH BASIC WIND SPEED EXPOSURE = C INTERNAL PRESSURE COEFF., $GC_{P,I}$ = ±0.18 ROOF ANGLE = 9.5 DEGREES			RISK CATEGORY II K_{ZT} = 1.00
ICE LOAD	NOT CONSIDERED (SEE GENERAL NOTE #15 THIS SHEET)			
SNOW LOAD	NOT CONSIDERED (SEE GENERAL NOTE #14 THIS SHEET)			
ROOF LIVE LOAD (MAX PSF)	20 (REDUCIBLE)			
FLOOR LIVE LOAD (PSF)	☐ 50	☒ 50+15	☐ 100	
RAMP LIVE LOAD (MAX PSF)	100 (1,000# CONCENTRATED LD)			
DESIGN DEAD LOADS (MAX PSF)	21.0 RF - 12.0 WD FLR - 48.0 CONC. FLR - 18.0 EXT WALLS			
FIRE SPRINKLER SYSTEM DESIGN WT.	1.5 PSF INCLUDED IN ROOF DESIGN DEAD LOADS ABOVE (SEE GENERAL NOTES #5 - #7 THIS SHEET)			
ROOF SOLAR PANEL SYSTEM DESIGN WT.	3.0 PSF INCLUDED IN ROOF DESIGN DEAD LOADS ABOVE (SEE GENERAL NOTE #9 THIS SHEET)			
ALLOWABLE SOIL PRESSURE (PSF)	1500 FOR CONCRETE FOUNDATION			
FLOOD HAZARD AREA	NO (SEE GENERAL NOTE #11 THIS SHEET)			
RAIN INTENSITY (IN/HR)	3"			
BUILDING AREA (SQ. FT.)	480			
CLIMATE ZONE	☒ 1-14	☐ 16	☐ 1-16	(DESIGNED FOR WORST CASE CZ15)
MODULES	LIGHT MODULAR STEEL MOMENT-FRAMES PER CBC SECION 2212A			
SYSTEM	12'x40' MODULE			
FOUNDATION TYPE	☒ WOOD	☐ CONCRETE		

SITE-SPECIFIC OPTIONS

FLOOR DECK	☒ 1⅛" PLYWOOD SHTG.	☐ BH-36 DECK 1½"x18 GA.	☐ 3WxH DECK 3"x18 GA.	
WALL STUDS	☒ WOOD	☐ LIGHT-GAUGE STEEL		
EXTERIOR WALL FINISH	☐ STUCCO	☐ SYNTHETIC STUCCO	☐ LAP SIDING	☒ DURATEMP 303
HVAC	☐ INTERIOR FLOOR MOUNTED	☐ EXTERIOR WALL MOUNTED	☐ SPLIT SYSTEM	
ROOFING	☒ 3" x 20 GA. STANDING SEAM	☐ BUILT-UP ROOFING	☐ SINGLE-PLY	
ROOF PITCH	☒ SINGLE PITCH	☐ DUAL PITCH		
ROOF DIAPHRAGM	☒ STEEL STRAP CROSS BRACING - SEE SHEET S4.0	☐ ½" SHEATHING - SEE SHEET S4.1		
FRONT OVERHANG	☐ NO	☒ YES - LENGTH: 2'-0"	ENCLOSED - 7'-0" MAX	
REAR OVERHANG	☐ NO	☒ YES - LENGTH: 2'-0"	ENCLOSED - 7'-0" MAX	
RAMP(S)	☐ NO	☒ YES (SEE SHEET S10.0)		
SOLATUBE ON ROOF	☒ NO	☐ YES		
FIRE SPRINKLERS	☒ NO	☐ YES (SEE GENERAL NOTES #5 - #7 THIS SHEET)		
PARAPETS	☒ NO	☐ YES (SEE SHEET S4.3)		
SOLAR PANELS	☒ NO	☐ YES (SEE GENERAL NOTE #9 THIS SHEET)		
OPTIONAL SIDE WALL CANOPY	☒ NO	☐ YES (SEE SHEET S5.4A)		
LIQUEFIABLE SOILS	☒ NO	☐ YES (SEE GENERAL NOTE #10 THIS SHEET)		
MAPPED GEOHAZARD ZONE	☒ NO	☐ YES (AS DEFINED BY PC-6 SECTION 1.8)		
GEOHAZARD REPORT	☒ NO	☐ YES		
IF YES	GEOTECHNICAL FIRM:			
	REPORT #:		REPORT DATE:	
GEOTECHNICAL REPORT	☒ NO	☐ YES	* REQUIRED IF BUILDING AREA > 4,000 SF	
IF YES	GEOTECHNICAL FIRM:			
	REPORT #:		REPORT DATE:	
	DEEPER FOOTINGS REQUIRED?	☐ NO	☐ YES - REQUIRED DEPTH:	
	WIDER FOOTINGS REQUIRED?	☐ NO	☐ YES - REQUIRED WIDTH:	
BELOW GRADE CONCRETE MIX DESIGN	DEFAULT CONCRETE MIX DESIGN FOR BELOW GRADE CONCRETE PER SHEET N1.0A.			
	OPTIONAL SITE-SPECIFIC CONCRETE MIX DESIGN FOR BELOW GRADE CONCRETE PER SHEET N1.0A.			

SEE SHEET TS2 FOR SHEET INDEX

SITE SPECIFIC WIND CRITERIA

SITE SPECIFIC BASIC WIND SPEED = 99 MPH WIND EXPOSURE = C

SITE SPECIFIC SEISMIC VALUES

SITE SPECIFIC S_S = 1.631 SITE SPECIFIC S_1 = 1.147 SITE CLASS = D

(NOTE: SITE SHALL BE SITE CLASS "D" IF NO SOILS REPORT UNLESS THERE IS EVIDENCE OF CLASS "E" OR "F" SOILS PRESENT.)

PC BUILDING SEISMIC DESIGN CRITERIA

Ie = 1.0 T = 0.231$_S$ R = 3.5 (OMF) RISK CATEGORY II
Ω_O = 3.0 C_d = 3.0 ρ = 1.3 SEISMIC DESIGN CATEGORY: D (S_1 < 0.75) E (S_1 ≥ 0.75)

MAXIMUM STORY DRIFT RATIO = 2.0% (I.E. MAX DRIFT = 0.020 x THE HEIGHT UNDER CONSIDERATION.)
LATERAL FORCE RESISTING SYSTEM: LIGHT MODULAR STEEL MOMENT FRAMES PER 2212A
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

NOTE:
COMPONENTS AND CLADDING DESIGNED FOR:
S_{DS} = 1.30

☒ **NO SOILS REPORT - ASSUMED SITE CLASS "D"**

S_S = 1.631 MAX (SITE) 1.631 (DESIGN) F_a= 1.2 S_{DS} = 1.30 MAX (SITE) 1.30 (DESIGN)
S_1 = 1.147 MAX (SITE & DESIGN) F_v= 1.7 S_{D1} = 1.30 MAX (SITE & DESIGN) C_S = 0.485 W (DESIGN)*

☐ **WITH SOILS REPORT - SITE CLASS "A", "B" OR "D"**

NOTE: PER EXCEPTION 2 OF ASCE 7-16 SECTION 11.4.8, GROUND MOTION HAZARD ANALYSIS IS NOT REQUIRED FOR SITE CLASS "D".

S_S = 1.955 MAX (SITE) 1.955 (DESIGN) F_a= 1.0 S_{DS} = 1.30 MAX (SITE) 1.30 (DESIGN)*
S_1 = 1.147 MAX (SITE & DESIGN) F_v= 1.7 S_{D1} = 1.30 MAX (SITE & DESIGN) C_S = 0.485 W (DESIGN)*

☐ **WITH SOILS REPORT - SITE CLASS "C"**

S_S = 1.631 MAX (SITE) 1.631 (DESIGN) F_a= 1.2 S_{DS} = 1.30 MAX (SITE) 1.30 (DESIGN)
S_1 = 1.393 MAX (SITE & DESIGN) F_v= 1.4 S_{D1} = 1.30 MAX (SITE & DESIGN) C_S = 0.485 W (DESIGN)*

☐ **WITH SOILS REPORT - SITE CLASS "E"**

NOTE: PER EXCEPTION 1 & 3 OF ASCE 7-16 SECTION 11.4.8, GROUND MOTION HAZARD ANALYSIS IS NOT REQUIRED.

S_S = 1.625 MAX (SITE) 1.625 (DESIGN) F_a= 1.2 S_{DS} = 1.30 MAX (SITE) 1.30 (DESIGN)
S_1 = 0.975 MAX (SITE & DESIGN) F_v= 2.0 S_{D1} = 1.30 MAX (SITE & DESIGN) C_S = 0.485 W (DESIGN)*

☐ **WITH SOILS REPORT - SITE CLASS "F"**

PER ASCE 7-16 SECTION 11.4.8, A SITE REPONSE ANALYSIS IN ACCORDANCE WITH SECTION 21.1 IS REQUIRED UNLESS EXEMPTED BY SECTION 20.3.1. SEE GENERAL NOTE #10.

SITE SPECIFIC S_{DS} = _____ S_{DS} = S_{D1} = 1.30 MAX C_S = 0.485 W (DESIGN)*

SITE SPECIFIC S_{D1} = _____ * - BASE SHEAR (INCLUDES 'ρ')

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT PATRICK GARVIN No. C12631 Ren. 3-31-25 STATE OF CALIFORNIA

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

REVISIONS
1
2
3
4

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	05/02/2023
PROJECT NO:	1790-23

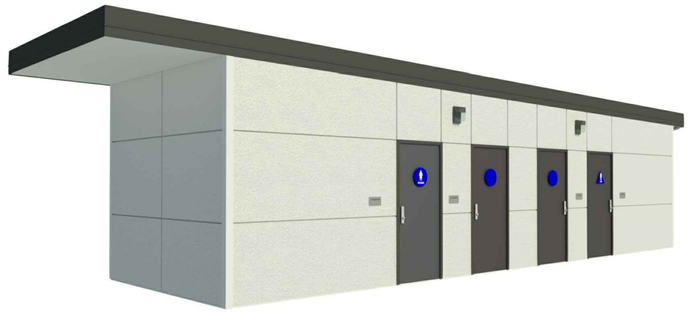
SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
TS

S3-XXXXX_[HASH]@20250424-05-00-20250505044 AM_[HASH]@20250505044 AM.rfa[HASH]@20250505044 AM.rfa[HASH]@20250505044 AM.rfa

American Modular Systems

MMM - STOCKPILE
(20) 12' x 40' RESTROOM BUILDINGS



SHEET INDEX

ARCHITECTURAL

OPTIONS		SHEET NUMBER	SHEET TITLE
COVER SHEET		☒ TS	TITLE SHEET
		☒ TS2	SHEET INDEX
INSPECTION FORM		☒ D1	FORM DSA-103
GENERAL NOTES & SPECIFICATIONS		☒ N1.0	GENERAL NOTES & SPECIFICATIONS
		☒ N1.0A	BELOW GRADE CONCRETE MIX DESIGN REQUIREMENTS
		☒ N2.0	GENERAL NOTES & SPECIFICATIONS
		☒ N3.0	TYPICAL SCHEDULES: DOORS, WINDOWS & FINISHES
		☒ N4.0	ACCESSIBILITY STANDARDS AND DETAILS
		☒ N5.0	FLOOR PLAN CONFIGURATION
ENERGY SHEETS & CALCULATIONS		☒ EN.1	ENERGY CALCULATIONS
		☒ EN.2	ENERGY CALCULATIONS
		☒ EN.3	ENERGY CALCULATIONS
		☒ EN.4	ENERGY CALCULATIONS
		☒ EN.5	ENERGY CALCULATIONS
		☒ EN.6	ENERGY CALCULATIONS
FLOOR PLANS		☐ A1.0	TYPICAL FLOOR PLAN
		☒ A1.2	RESTROOM FLOOR PLAN
		☒ A1.2A	RESTROOM FLOOR PLAN
ROOF PLAN & DETAILS	METAL STANDING SEAM	☒ A2.0	TYPICAL ROOF PLAN - METAL STANDING SEAM
		☒ A2.1	TYPICAL ROOF DETAILS - METAL STANDING SEAM ROOFING
	SINGLE-PLY OR BUILT-UP	☐ A2.2	TYPICAL ROOF PLAN - SINGLE-PLY OR BUILT-UP ROOFING
		☐ A2.5	TYPICAL ROOF DETAILS - SINGLY-PLY OR BUILT-UP ROOFING
INTERIOR ELEVATIONS		☐ A4.0	INTERIOR ELEVATIONS - TYPICAL CLASSROOM
		☒ A4.1	INTERIOR ELEVATIONS - RESTROOM
		☒ A4.1A	INTERIOR ELEVATIONS - RESTROOM
		☐ A4.2	INTERIOR ELEVATIONS - RESTROOM OPTIONS
EXTERIOR ELEVATIONS & ARCHITECTURAL DETAILS	DURATEMP 303 SIDING	☒ A5.0	TYPICAL EXTERIOR ELEVATIONS - DURATEMP 303 SIDING
		☒ A5.0A	TYPICAL EXTERIOR ELEVATIONS - DURATEMP 303 SIDING
		☒ A5.1	TYPICAL ARCHITECTURAL DETAILS - DURATEMP 303 SIDING OPTION
	STUCCO	☐ A5.2	TYPICAL EXTERIOR ELEVATIONS - STUCCO OPTION
		☐ A5.3	TYPICAL ARCHITECTURAL DETAILS - STUCCO OPTION
	LAP SIDING	☐ A5.4	TYPICAL EXTERIOR ELEVATIONS - LAP SIDING OPTION
		☐ A5.5	TYPICAL ARCHITECTURAL DETAILS - LAP SIDING OPTION
	SYNTHETIC STUCCO	☐ A5.6	TYPICAL EXTERIOR ELEVATIONS - SYNTHETIC STUCCO OPTION
		☐ A5.7	TYPICAL ARCHITECTURAL DETAILS - SYNTHETIC STUCCO OPTION
MISCELLANEOUS DETAILS		☐ A7.0	ARCHITECTURAL EXTERIOR FINISH OPTIONS DETAILS
		☒ A7.1	MISCELLANEOUS ARCHITECTURAL DETAILS
		☒ A7.3	TYPICAL LONGITUDINAL AND TRANSVERSE FRAME SECTIONS
		☐ A8.0	1-HR FIRE RATED CONSTRUCTION DETAILS

STRUCTURAL

OPTIONS		SHEET NUMBER	SHEET TITLE
STEEL MEMBER PROPERTIES		☒ S0.0	STEEL MEMBER PROPERTIES
FOUNDATION PLANS & DETAILS	CONCRETE	☒ S1.0	CONCRETE FOUNDATION PLANS CONCRETE FLOORS (100 PSF MAX FLOOR LIVE LOAD)
		☒ S1.4	CONCRETE FOUNDATION DETAILS
		☒ S1.5	CONCRETE FOUNDATION DETAILS
		☒ S1.6C	DOUBLE PLATE ANCHORAGE FOUNDATION DETAILS
		☒ S1.7	CONCRETE FOUNDATION OPTIONAL UTILITY OPENINGS IN FOOTINGS
WOOD FNDN. PLANS & DETAILS	WOOD	☒ S2.0	WOOD FOUNDATION PLAN & DETAILS - PLYWOOD FLOORS ONLY- 100 PSF MAX FLOOR L.L.
FLOOR FRAMING PLAN & DETAILS	PLYWOOD	☒ S3.0	FLOOR FRAMING PLAN & DETAILS FOR PLYWOOD FLOOR
	CONCRETE w/ METAL DECK	☐ S3.1	FLOOR FRAMING PLAN & DETAILS FOR CONCRETE FLOOR w/BH-DECK OPTION (100 PSF MAX FLOOR L.L.)
		☐ S3.3	FLOOR FRAMING PLAN & DETAILS FOR CONCRETE FLOOR w/3WxH-DECK OPTION (100 PSF MAX FLOOR L.L.)
ROOF FRAMING PLAN & DETAILS		☒ S4.0	ROOF FRAMING PLAN & DETAILS - CROSS BRACING OPTION
		☐ S4.1	ROOF FRAMING PLAN & DETAILS - ROOF SHEATHING OPTION
		☒ S4.2	ROOF FRAMING DETAILS - CROSS BRACING OPTION
		☐ S4.3	ROOF FRAMING DETAILS - ROOF SHEATHING OPTION
		☐ S4.4	OPTIONAL PARAPET FRAMING ELEVATIONS & DETAILS
BUILDING FRAMING ELEVATIONS & DETAILS		☒ S5.0	MOMENT FRAME ELEVATIONS & DETAILS
		☒ S5.1	MOMENT FRAME CONNECTION DETAILS
		☐ S5.4A	OPTIONAL SIDE WALL CANOPY PLAN & DETAILS
WALL FRAMING	WOOD STUDS	☒ S8.0	WALL FRAMING ELEVATIONS & SCHEDULES - WOOD STUDS
		☒ S8.1	WALL FRAMING DETAILS - WOOD STUDS
	METAL STUDS	☐ S9.0	WALL FRAMING ELEVATIONS & SCHEDULES - METAL STUD OPTION
		☐ S9.1	WALL FRAMING DETAILS - METAL STUD OPTION
		☐ S9.2	TYPICAL METAL STUD FRAMING DETAILS & PROPERTIES
RAMPS		☒ S10.0	TYPICAL RAMP PLANS & NOTES
		☒ S10.1	RAMP DETAILS

MECHANICAL

OPTIONS	SHEET NUMBER	SHEET TITLE
FLOOR PLANS	☒ M1.0	TYPICAL REFLECTED CEILING PLAN
	☐ M1.1	TYPICAL MECHANICAL PLAN OPTIONS
	☐ M1.2	RESTROOM REFLECTED CEILING PLAN
DETAILS	☒ M1.4	MECHANICAL & CEILING DETAILS
	☐ M1.4A	MECHANICAL & CEILING DETAILS
	☒ M1.5	MECHANICAL & CEILING DETAILS
	☒ M1.6	MECHANICAL ROOF DETAILS
	☐ M1.6A	MECHANICAL ROOF DETAILS
MISCELLANEOUS	☒ M1.7	CEILING & MECHANICAL NOTES & SCHEDULES

ELECTRICAL

OPTIONS	SHEET NUMBER	SHEET TITLE
FLOOR PLANS & DETAILS	☒ E1.0	ELECTRICAL PLANS & SYMBOLS LEGEND
	☒ E1.2	ELECTRICAL NOTES & DETAILS

PLUMBING

OPTIONS	SHEET NUMBER	SHEET TITLE
FLOOR PLAN & DETAILS	☒ P1.0	RESTROOM OPTIONS, PLUMBING PLANS, & FIXTURE SCHEDULE
	☒ P2.0	PLUMBING DETAILS & ACCESSIBLE DETAILS
	☒ P3.0	PLUMBING ISOMETRIC DRAWINGS

TOTAL PAGES 52

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
MMM
STOCKPILE
(20) 12'x40' BUILDINGS

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
PATRICK J. MCKINNEY
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

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

REVISIONS
1
2
3
4

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	05/02/2023
PROJECT NO:	1790-23

SHEET TITLE:
SHEET INDEX

SHEET NUMBER:
TS2

03-XXXX - [hex]@AP/2026/Dec/Su/Su 03/ 3/2026/SAVE AS/12/2026/3/2026 AM/12/2026/3/2026/3:00 AM - P:\Jobs\public\2026\03\3XXX\PW\2026\03\03-XXXX - 03 SHEET INDEX.dwg

AUTHORIZED USE: ALL INFORMATION INCLUDED ON THIS SHEET (FORM DSA-103) IS FOR THE SOLE PURPOSE OF RECEIVING DSA APPROVAL AND ISSUANCE OF A PC NUMBER. NO OTHER USE IS AUTHORIZED WITHOUT THE EXPRESS WRITTEN CONSENT OF AMERICAN MODULAR SYSTEMS, INC.

Additional Information for PC designs only, not to be added to DSA-103:			
	STOCKPILE	**CONSTRUCTION OF PERMANENT MODULAR OR RELOCATABLE BUILDING**	**RELOCATION OF CERTIFIED RELOCATABLE BUILDING**
INSPECTOR CLASS (minimum requirements)	RBIP or Class 1	In Plant: RBIP or Class 1 Site: Class 4 for Single Story Site: Class 2 for Two-Story	Class 4 for Single Story Class 2 for Two-Story
Selection of the Project Inspector and Testing Agency	by the Owner and approved by DSA, A/E of Record and Structural Engineer	by the School District and approved by DSA, A/E responsible for in-plant construction observation.	by the Owner and approved by DSA, A/E of Record and Structural Engineer
Cost of the Project Inspector (Title 24, Part 1, Section 4-333(b)) and Testing/Special Agency (CAC, Section 4-335(b))	by the Owner	by the School District	

HOLLO-BOLT MANUFACTURER'S INSPECTION PROCEDURES

PERIODIC SPECIAL INSPECTION REQUIREMENTS

ICC ES ESR-3330 Solomi Approved

LA DBS DEPARTMENT OF BUILDING AND SAFETY

TO VERIFY CORRECT INSTALLATION INCLUDING USE IN SEISMIC OR WIND LOADING APPLICATIONS IN ACCORDANCE WITH THE 2019 CALIFORNIA BUILDING CODE SECTIONS 1705A.1, 1705A.2, AND 1704A.3 PLEASE REFER TO THE FOLLOWING INSTRUCTIONS.

A. INSPECTION PRIOR TO INSTALLATION

1. ENSURE THAT THERE ARE NO GAPS BETWEEN THE CONNECTING STEELWORK.
2. ENSURE THAT THE HOLES ARE ALIGNED AND THAT THE HOLES HAVE THE CORRECT DIAMETER AND SPACING FOR THE CHOSEN HOLLO-BOLT.
3. THE HOLES MUST BE STANDARD DIAMETER HOLES CONFORMING TO AISC 360 WHERE THE HOLE DIAMETER MUST BE NO GREATER THAN THE SLEEVE OUTER DIAMETER +1/16".
4. BURRS IN THE HOLES MUST BE REMOVED BEFORE INSERTION OF THE HOLLO-BOLT.

B. INSPECTION DURING INSTALLATION

1. ENSURE THAT THE HOLLO-BOLTS ARE INSTALLED AS PER LINDAPTER'S INSTALLATION INSTRUCTION SHEET.
2. ENSURE THAT THE TORQUE WRENCH(S) HAS A CURRENT VALID CALIBRATION CERTIFICATE AND IS CALIBRATED ON REGULAR BASIS.
3. IF USING AIR POWERED WRENCHES TO TIGHTEN THE HOLLO-BOLT, CHECK THAT THE WRENCH IS SET CORRECTLY TO AVOID OVERTIGHTING. THE FINAL TORQUE MUST BE CHECKED WITH A CALIBRATED TORQUE WRENCH.
4. IF AFTER TIGHTENING THERE IS A GAP EVIDENT BETWEEN THE HOLLO-BOLT AND THE CONTACT SURFACE OF THE CONNECTING ELEMENT THIS MAY INDICATE INCORRECT INSTALLATION. REMOVE AND DISCARD THE HOLLO-BOLT, REALIGN THE CONNECTING STEELWORK AND INSTALL A NEW HOLLO-BOLT AS PER LINDAPTER'S INSTALLATION INSTRUCTION SHEET.
5. IF AFTER TIGHTENING THE BOLT HEAD CONTINUES TO TURN THIS MAY BE AN INDICATION OF OVER TIGHTENING, OR IF USING A STAINLESS STEEL HOLLO-BOLT THIS MAY BE DUE TO GALLING*, REMOVE AND DISCARD THE HOLLO-BOLT AND INSTALL A NEW HOLLO-BOLT AS PER LINDAPTER'S INSTALLATION INSTRUCTION SHEET.

* 'GALLING' IS A TERM USED WHEN TWO SURFACES SEIZE UP AS A RESULT OF COLD WELDING AND IS COMMON WHEN TIGHTENING STAINLESS STEEL BOLTS.

C. INSPECTION AFTER INSTALLATION

1. ENSURE THAT THERE ARE NO GAPS BETWEEN THE CONNECTING STEELWORK.
2. ENSURE THAT THERE ARE NO GAPS BETWEEN THE HOLLO-BOLT AND THE CONTACT SURFACE OF THE CONNECTING ELEMENT.
3. CHECK THE TIGHTENING TORQUE OF BETWEEN 5-10% OF THE INSTALLED HOLLO-BOLTS CHOSEN AT RANDOM USING A CALIBRATED TORQUE WRENCH.

FOOTNOTES

1. WAIVER OF CONTINUOUS BATCH PLANT INSPECTION (PER CBC 1705A3.3.1 AND DSA IR 17-13)
   - A. CONTINUOUS BATCH PLANT INSPECTION MAY BE WAIVED IF THE CONCRETE PLANT COMPLIES FULLY WITH ASTM C94, SECTION 9 AND 10, AND HAS A CURRENT CERTIFICATION FROM THE "NATIONAL READY MIXED CONCRETE ASSOCIATION" OR ANOTHER AGENCY ACCEPTABLE TO THE ENFORCEMENT AGENCY. THE CERTIFICATION SHALL INDICATE THAT THE PLANT HAS AUTOMATIC BATCHING AND RECORDING CAPABILITIES.
   - B. IF THE BATCH PLANT INSPECTION IS WAIVED, THE FOLLOWING REQUIREMENTS a) THRU c) SHALL BE MET:
     - a) AN APPROVED AGENCY OR CERTIFIED TECHNICIAN OF THE TESTING LABORATORY SHALL CHECK THE FIRST BATCH AT START OF WORK DAY TO VERIFY MATERIALS AND PROPORTIONS CONFORM TO THE APPROVED MIX DESIGN.
     - b) THE LICENSED WEIGHMASTER SHALL POSITIVELY IDENTIFY QUANTITY OF MATERIALS AND CERTIFY EACH LOAD BY A BATCH TICKET.
     - c) BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS, SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD PRIOR TO CONCRETE PLACEMENT.
2. ELIMINATION OF CONTINUOUS BATCH PLANT INSPECTION (PER CBC 1705A3.3.2):
   - A. BATCH PLANT INSPECTION IS NOT REQUIRED FOR ANY OF THE FOLLOWING CONDITIONS:
     - a) SITE FLATWORK,
     - b) UNENCLOSED SITE STRUCTURES, INCLUDING BUT NOT LIMITED TO LUNCH OR CAR SHELTERS, BLEACHERS, SOLAR STRUCTURES, FLAG OR LIGHT POLES, OR RETAINING WALLS,
     - c) CONTROLLED LOW-STRENGTH MATERIAL BACKFILL, OR
     - d) SINGLE STORY RELOCATABLE BUILDINGS LESS THAN 2,160 SQUARE FEET.
3. PER CBC 1910A.2, TESTING MAY BE WAIVED FOR ONE-STORY BUILDINGS IF A CERTIFIED MILL TEST REPORT IS PROVIDED.
4. REQUIRED ONLY WHERE DETAILS SPECIFY THE USE OF THESE ATTACHMENTS.
5. INSPECTION OF VENEER DETAILED ON SHT. A7.0 MAY BE WAIVED BY DSA ON A SITE SPECIFIC BASIS.
6. THE APPENDIX TO DSA-103 SHALL BE COMPLETED BY THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE.
7. ULTRASONIC TESTING PER DSA IR-PC2 SECTION 10.1 SHALL BE PERFORMED ON 100% OF CJP GROOVE WELDS WHEN THE COLUMNS PER SCHEDULE ON SHEET S5.1 HAVE A THICKNESS OF 3/4" OR GREATER. MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25% OF ALL BEAM-TO-COLUMN CJP GROOVE WELDS. NONDESTRUCTIVE TESTING OF COMPLETE JOINT PENETRATION WELDS AT GRAVITY CONNECTIONS SHALL COMPLY WITH AISC 360, CHAPTER N, PER 2019 CBC 1705A.2.1.
8. EXAMPLE DSA-103 FORMS WILL BE USED AS GUIDE TO DEVELOP A SITE-SPECIFIC DSA-103 FORM FOR THE SITE-SPECIFIC PROJECT. EXAMPLE FORMS ON THE PC DRAWINGS WILL BE CROSSED OUT WHEN SITE-SPECIFIC DSA-103 FORMS ARE PROVIDED DURING OTC REVIEW.
9. QUALIFIED REPRESENTATIVE OF LABORATORY OF RECORD OR APPROVED SPECIAL INSPECTOR SHALL VERIFY ALL STEEL IDENTIFICATION PER 2019 CBC 2202A.1 AND DSA IR 17-3 STRUCTURAL WELDING INSPECTION.

TEST OR INSPECTION (as listed on DSA-103)[8]	STOCKPILE		CONSTRUCTION (Diaphragm - Foundation)			RELOCATION OF CERTIFIED BUILDING	
	A	B	C	D	E	F	G
MATERIAL TYPE	WOOD FLOOR ONLY	CONCRETE FLOOR	WOOD FLOOR - CONCRETE FOUNDATION	CONCRETE FLOOR - CONCRETE FOUNDATION	WOOD FLOOR ONLY - WOOD FOUNDATION	CONCRETE FOUNDATION	WOOD FOUNDATION
SOILS							
1. GENERAL:							
a. Verify that: • Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. • Foundation excavations extended to proper depth and have reached proper material. • Materials below footings are adequate to achieve the design bearing capacity.			X	X	X	X	X
2. COMPACTED FILLS:							
a. Perform classification and testing of fill materials.			X	X		X	
b. Verify use of proper materials, densities, and inspect lift thicknesses, placement and compaction during placement of fill.			X	X		X	
c. Compaction testing.			X	X		X	
CONCRETE							
7. CAST IN PLACE CONCRETE - Lightweight over Metal Deck:							
a. Verify use of required design mix.		X		X			
b. Identify, sample, and test reinforcing steel.[3]		X		X			
c. During concrete placement, fabricate specimens for strength tests, performing slump, and air content tests, and determine the temperature of the concrete.		X		X			
d. Test concrete (f'_c - compression).		X		X			
e. Batch plant inspection[1][2] – design complies with 1705A.3.3		X		X			
f. Welding of reinforcing steel.		X		X			
7. CAST IN PLACE CONCRETE - Foundation:							
a. Verify use of required design mix.			X	X		X	
b. Identify, sample, and test reinforcing steel.[3]			X	X		X	
c. During concrete placement, fabricate specimens for strength tests, performing slump, and air content tests, and determine the temperature of the concrete.			X	X		X	
d. Test concrete (f'_c - compression).			X	X		X	
e. Batch plant inspection[1][2] – design complies with 1705A.3.3			X	X		X	
f. Welding of reinforcing steel.			X	X		X	
11. POST-INSTALLED ANCHORS[4]:							
a. Inspect installation of post-installed anchors					X		X
b. Test post-installed anchors					X		X
MASONRY							
14. VENEER OR GLASS BLOCK[5]:							
a. Verify proportions of site-prepared mortar and grout and/or verify certification of premixed mortar.	X	X	X	X	X		
b. Inspect placement of units and construction of mortar joints.	X	X	X	X	X		
c. Inspect placement of reinforcement, connectors, and anchors.							
d. Inspect type, size, and location of anchors and all other items to be embedded in masonry including details of anchorage of masonry to structural members, frames, and other construction.							
e. Verify preparation, construction, and protection of masonry during cold weather (temperature below 40° F) or hot weather (above 90°).	X	X	X	X	X		
f. Test veneer bond strength.	X	X	X	X	X		
STEEL, ALUMINUM							
17. STRUCTURAL STEEL, COLD-FORMED STEEL, AND ALUMINUM USED FOR STRUCTURAL PURPOSES:							
a. Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements, • Material sizes, types and grades comply with requirements.	X	X	X	X	X		
b. Test unidentified materials	X	X	X	X	X		
c. Examine seam welds of HSS shapes	X	X	X	X	X		
d. Verify and document steel fabrication per DSA approved construction documents.	X	X	X	X	X		
19. WELDING:							
a. Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS.	X	X	X	X	X		
b. Verify weld filler material manufacturer's certificate of compliance.	X	X	X	X	X		
c. Verify WPS, welder qualifications and equipment.	X	X	X	X	X		
19.1 SHOP WELDING:							
a. Inspect groove, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds	X	X	X	X	X		
b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds	X	X	X	X	X		
c. Inspect welding of stairs and railing systems					X		
d. Verification of reinforcing steel weldability other than ASTM A706.							
e. Inspect welding of reinforcing steel.							
19.2 FIELD WELDING:							
a. Inspect groove, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds (See foundation anchorage - S1.6 sheets)			X	X		X	
b. Inspect single-pass fillet welds ≤ 5/16" (See foundation anchorage - S1.6 sheets)			X	X		X	
c. Inspect end-welded studs (ASTM A-108) installation (including bend test)							
d. Inspect floor and roof deck welds							
e. Inspect welding of structural cold-formed steel							
f. Inspect welding of stairs and railing systems							
g. Verification of reinforcing steel weldability							
h. Inspect welding of reinforcing steel.							
20. NONDESTRUCTIVE TESTING[7]:							
a. Ultrasonic (Test per sheet S5.1)	X	X	X	X	X		
b. Magnetic Particle (Test per sheet S5.1)	X	X	X	X	X		
22. SPRAY APPLIED FIRE-PROOFING:							
a. Examine structural steel surface conditions, inspect application, take samples, measure thickness, and verify compliance of all aspects of application with DSA approved documents.			X	X	X		
b. Test bond strength.							
c. Test density.							
23. ANCHOR BOLTS, ANCHOR RODS, & OTHER STEEL:							
a. Anchor Bolts and Anchor Rods							
b. Threaded rod not used for foundation anchorage.							
OTHER							
26. LOAD TEST FOR IDENTIFIED PRODUCT(S):							
a. Column fire rating where specified per 20/A8.0 and tested per 1705A.15	X	X	X	X	X		

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING
FORM®

SITE SPECIFIC PROJECT NAME
.
.
.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT · PATRICK CONNOR · No. C12631 Ren. 3-31-23 · STATE OF CALIFORNIA

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

REVISIONS
1
2
3
4

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

SHEET TITLE:
FORM
DSA-103

SHEET NUMBER:
D1

02-XXXXX_dsa-4c4b4f4b5b4c4b-dsa-fp-20210331-form_PROPERTY.EB.SBSECSIGNS_TM_PROPERTY.EB.SBSECSIGNS_TM_RoyDesignsAllPDFs/dsa/drawings/2020/2020-12-08-1412-45/dsa-form-xlsx/RSA1x1x1280x960x0x0.dat - 2020-08-08T14:45:58.000Z

SECTION 1 GENERAL REQUIREMENTS

1. GENERAL
   - A. THE REQUIREMENTS OF THE GENERAL CONDITIONS OF THE AGREEMENT AND THIS GENERAL REQUIREMENT APPLY TO THE SEVERAL TRADE SECTIONS WITH THE SAME FORCE AS THOUGH FULLY REPEATED IN EACH TRADE SECTION.
   - B. NAME BRANDS ARE INDICATED TO ESTABLISH A STANDARD OF QUALITY. ITEMS OF EQUAL OR BETTER QUALITY MAY BE SUBSTITUTED FOR THE LISTED BRAND NAMED PRODUCTS WITH THE WRITTEN APPROVAL OF D.S.A. AND THE RDPRC.
   - C. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF TITLES 19 AND 24 CALIFORNIA CODE OF REGULATIONS, 2019 C.B.C. NO CHANGES SHALL BE MADE FROM D.S.A. APPROVED DRAWINGS OR SPECIFICATIONS WITHOUT PRIOR WRITTEN APPROVAL OF D.S.A. AND THE RDPRC.
2. SCOPE OF WORK
   - A. THE WORK CONSISTS OF MANUFACTURING OFF-SITE IN A PLANT AND INSTALLING ON-SITE, MODULAR RELOCATABLE BUILDINGS AS DEFINED HEREIN AND SHOWN AND DETAILED ON DRAWINGS.
   - B. ALL REQUIREMENTS OF TITLE 24 OF THE STATE OF CALIFORNIA, CODE OF REGULATIONS, RELATING TO INSPECTIONS AND VERIFIED REPORTS SHALL BE COMPLIED WITH AND SHALL INCLUDE:
     1. GENERAL RESPONSIBLE CHARGE OF FIELD ADMINISTRATION TO BE PROVIDED BY THE RDPRC.
     2. INSPECTION IN-PLANT DURING THE COURSE OF CONSTRUCTION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT. THE INSPECTOR SHALL BE RESPONSIBLE FOR AND APPROVED TO INSPECT THE GENERAL CONSTRUCTION WELDING, MECHANICAL, AND ELECTRICAL WORK. COST OF THESE INSPECTIONS SHALL BE BORNE BY THE SCHOOL DISTRICTS.
     3. ON-SITE INSPECTION OF THE BUILDING INSTALLATION ELECTRICAL AND UTILITY INSTALLATION OR CONNECTIONS BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT AND RETAINED BY THE SCHOOL DISTRICT.
     4. OTHER SPECIAL TESTS OR INSPECTIONS AS MAY BE REQUIRED BY THE DIVISION OF THE STATE ARCHITECT.
     5. ADDENDUMS SHALL BE SIGNED BY THE RDPRC & APPROVED BY D.S.A.
     6. CHANGES TO CONSTRUCTION DOCUMENT AFFECTING ACS, FLS & SSS SHALL BE SIGNED BY THE OWNER & THE RDPRC & APPROVED BY D.S.A. PRIOR TO COMMENCING WORK. CHANGES TO THE CONSTRUCTION COST ARE REPORTED TO D.S.A. USING FORM DSA-168 AT THE CONCLUSION OF THE PROJECT.
     7. THE TESTING LAB SHALL BE IN THE EMPLOY OF THE OWNER.
     8. ALL CONTRACTORS SHALL VERIFY ALL WORK CONDITIONS, DIMENSIONS AND DETAILS AND REPORT ANY OR ALL OMISSIONS AND DISCREPANCIES TO THE RDPRC/OWNER IMMEDIATELY BEFORE COMMENCING WORK.
     9. EACH CONTRACTOR TO BE RESPONSIBLE TO SEE THAT THEIR WORK CONFORMS TO ALL GOVERNMENTAL CODES WHETHER OR NOT SO STATED ON THE DRAWINGS.
     10. ALL MATERIALS AND WORKMANSHIP TO CONFORM TO THE LATEST REQUIREMENTS OF THE GOVERNING BUILDING CODES IN EFFECT AT TIME OF DSA APPLICATION.
     11. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED AND ERECTED PER MANUFACTURER'S DIRECTIONS AND INSTRUCTIONS.
     12. SHOP DRAWINGS MAY BE REQUIRED. IF SO, THEY WILL BE ACCURATELY DRAWN TO A LARGE ENOUGH SCALE TO SHOW ALL PERTINENT FEATURES OF THE ITEM AND ITS CONNECTION TO RELATED WORK.
     13. THE MANUFACTURER OF BUILDING IS TO PLACE TWO PERMANENT METAL IDENTIFICATION LABEL ON EACH MODULE, MECHANICALLY FASTENED TO THE FRAME SEE "GENERAL DESIGN REQUIREMENTS", SHEET N2.0. FOR PROJECTS MANUFACTURED OFF-SITE, THE PLANT INSPECTOR IS TO INDICATE THE MANUFACTURER'S NAME AND SERIAL NUMBER OF EACH MODULE ON THE VERIFIED REPORT AND D.S.A. APP. NUMBER.
     14. ALL TESTS AND INSPECTIONS REQUIRED BY DSA SHALL BE COMPLIED WITH. ALL TESTS REQUIRED BY FIRE AND LIFE SAFETY REGULATIONS SHALL BE BY A NATIONALLY RECOGNIZED TESTING LABORATORY.

SECTION 2A WOOD FOUNDATION

1. ALLOWABLE SOIL BEARING:
   - 1000 P.S.F. FOR WOOD FOUNDATIONS MAX
2. WOOD FOUNDATIONS SHALL BE CONSTRUCTED PER ALL NOTES, SPECIFICATIONS & DETAILS NOTED ON SHEET S2.0 OF THIS DRAWING PACKAGE.

NOTE: THE APPLICANT SHALL INITIATE A REQUEST FOR A WAIVER OF DURABILITY WHEN THE FOUNDATION SYSTEM IS UTILIZED PER THE INTERPRETATION OF REGULATIONS, IR 16-1, ISSUED BY DIVISION OF THE STATE ARCHITECT, FOR TEMPORARY BUILDINGS.

3. WORK NOT INCLUDED:
   - A. ALL ON-SITE OR OFF-SITE UTILITIES AND THE CONNECTION OF THEM TO THE BUILDING UNLESS INDICATED ON THE DRAWINGS.
   - B. ALL LEVELING, GRADING OR OTHER SITE PREPARATION EXCEPT WOOD LEVELING STRIPS WHERE REQUIRED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
   - C. FIRE ALARM SYSTEM, PROGRAM BELL, PUBLIC ADDRESS SYSTEM, INTERCOM SYSTEM, TV, TELEPHONE SYSTEM, UNLESS OTHERWISE INDICATED ON THE DRAWINGS, OR MODIFIED BY CHANGE ORDER.
4. WHEELS AND HITCH SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
5. ACCESSIBILITY OF SITE: THE SCHOOL DISTRICT SHALL PROVIDE ACCESS TO THE SITE FOR THE INSTALLATION OF BUILDINGS, REMOVAL OF TREES, SHRUBS, FENCING, SPRINKLERS ETC. NECESSARY FOR THE MOVE-IN OF BUILDINGS SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.

SECTION 2B CONCRETE FOUNDATION

1. ASSUMED ALLOWABLE SOIL BEARING:
   - 1500 P.S.F. FOR CONCRETE FOUNDATIONS EMBEDDED 12" MINIMUM BELOW GRADE. (1/3 INCREASE IN SOIL BEARING CAPACITY NOT PERMITTED FOR WIND & SEISMIC LOAD COMBINATIONS UNLESS USING ALTERNATIVE BASIC LOAD COMBINATIONS PER CBC SECTION 1605A.3.2)
2. FOOTINGS SHALL BE LOCATED ON UNDISTURBED, FIRM, NATURAL SOIL OR APPROVED COMPACTED FILL.
3. WORK NOT INCLUDED:
   - A. ALL ON-SITE OR OFF-SITE UTILITIES AND THE CONNECTION OF THEM TO THE BUILDING UNLESS INDICATED ON THE DRAWINGS.
   - B. ALL LEVELING, GRADING OR OTHER SITE PREPARATION EXCEPT CONCRETE OR WOOD LEVELING STRIPS WHERE REQUIRED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
   - C. FIRE ALARM SYSTEM, PROGRAM BELL, PUBLIC ADDRESS SYSTEM, INTERCOM SYSTEM, TV, TELEPHONE SYSTEM, UNLESS OTHERWISE INDICATED ON THE DRAWINGS, OR MODIFIED BY CHANGE ORDER.
4. WHEELS AND HITCH SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
5. ACCESSIBILITY OF SITE: THE SCHOOL DISTRICT SHALL PROVIDE ACCESS TO THE SITE FOR THE INSTALLATION OF BUILDINGS. REMOVAL OF TREES, SHRUBS, FENCING, SPRINKLERS ETC. NECESSARY FOR THE MOVE-IN OF BUILDINGS SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.

SECTION 3 CONCRETE

1. CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-14.
2. THE MINIMUM 28 DAY STRENGTH AND TYPE OF CONCRETE SHALL BE AS FOLLOWS:
   FOUNDATIONS.....PER SHEET N1.0A (150 PCF)
   FOUNDATION VENTS & ACCESS WELLS.....PER SHEET N1.0A (150 PCF)
   CONCRETE OVER METAL DECK.....3000 PSI (110 PCF)
3. THE MAXIMUM WATER TO CEMENT (W/C) RATIO SHALL BE PER SHEET N1.0A FOR FOUNDATIONS AND 0.45 FOR CONCRETE OVER METAL DECK SLABS.
4. CONCRETE SLUMP SHALL BE 4" ± 1" PRIOR TO ADDING ANY WATER REDUCING ADMIXTURES. CONCRETE SLUMP SHALL NOT EXCEED 8"± 1 ½" WHEN USING A WATER REDUCING ADMIXTURE.

CONCRETE continued

5. CEMENT SHALL CONFORM TO ASTM C150. CEMENT TYPE SHALL BE PER SHEET N1.0A FOR FOUNDATIONS, TYPE I OR II FOR CONCRETE OVER METAL DECK SLABS.
   - A. FLY ASH SHALL CONFORM TO ASTM C618 CLASS 'F' OR 'N' AND SHALL NOT EXCEED 15% CEMENT REPLACEMENT BY WEIGHT.
   - B. SLAG CEMENT SHALL CONFORM TO ASTM C989, GRADE 100 OR 120 AND SHALL NOT EXCEED 50% CEMENT REPLACEMENT BY WEIGHT.
   - C. COMBINATION OF FLY ASH & SLAG CEMENT SHALL NOT EXCEED 50% CEMENT REPLACEMENT BY WEIGHT.
6. CONCRETE AGGREGATES:
   - A. NATURAL SAND AND ROCK AGGREGATES SHALL CONFORM TO ASTM C33.
   - B. LIGHTWEIGHT AGGREGATE SHALL CONFORM TO ASTM C330.
   - C. MAX AGGREGATE SIZE SHALL BE 1"±1/4" FOR NORMAL WT. CONCRETE EXCEPT 3/8" OR 1/2" MAX MAY BE USED FOR FOUNDATION VENTS & ACCESS WELLS.
   - D. MAX AGGREGATE SIZE SHALL BE 3/8" OR 1/2" FOR LIGHT WT. CONCRETE.
7. REINFORCING SHALL CONFORM TO ASTM A615-GRADE 60, UNLESS OTHERWISE NOTED.
8. CONCRETE COVER OVER REINFORCING STEEL SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON DRAWINGS:
   CONCRETE DIRECTLY AGAINST GROUND (EXCEPT SLABS) .....3"
   CONCRETE EXPOSED TO GROUND BUT PLACED IN FORMS .....2"
   SLABS (ON GROUND) .....POSITION IN CENTER OF SLAB
9. ALL BARS SHALL HAVE A CLASS B MINIMUM LAP SPLICE PER DETAILS 6 & 9/S1.4 AND SPLICES IN ADJACENT BARS SHALL BE STAGGERED, U.N.O.
10. REINFORCING BARS SHALL NOT BE WELDED UNLESS SPECIFICALLY DETAILED IN THE APPROVED DRAWINGS. BARS DETAILED TO BE WELDED SHALL BE ASTM A706 BARS AND WELDING ELECTRODES SHALL BE E80XX. WELDING SHALL CONFORM WITH AWS D1.4-2017 AND SHALL BE CONTINUOUSLY INSPECTED.
11. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 AND SHALL BE LAP SPLICED TWO SQUARES MINIMUM EACH DIRECTION.
12. NOTIFY THE RDPRC PRIOR TO PLACING CONCRETE.
13. CHEMICAL ADMIXTURES SHALL CONFORM TO ASTM C494.
14. AIR-ENTRAINING ADMIXTURE SHALL CONFORM TO ASTM C260.
15. NON-SHRINK GROUT: ASTM C1107, 5000 PSI MIN AT 7 DAYS.

SECTION 5 STEEL

1. GENERAL - ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC 360-16, TITLE 24 OF CALIFORNIA CODE OF REGULATIONS SECTION 2212A.1.2, AND THE AMERICAN IRON AND STEEL INSTITUTE SPECIFICATIONS FOR DESIGN OF STEEL STRUCTURAL MEMBERS. A COPY OF TITLE 24 SHALL BE KEPT AT THE JOBSITE AT ALL TIMES.
   - A. FABRICATION AND ERECTION SHALL COMPLY WITH AISC 360-16 CHAPTER 'M' AND AISC 341-16 CHAPTER 'I'.
2. WELDING - ALL WELDING SHALL COMPLY WITH REQUIREMENTS OF THE "STRUCTURAL WELDING CODE" OF THE AMERICAN WELDING SOCIETY AND WELDING DONE BY OPERATORS QUALIFIED BY TESTS ACCEPTABLE TO THE DIVISION OF THE STATE ARCHITECT. WELDING INSPECTOR PER TITLE 24, PART 2, CCR, SECTIONS 1705A.2.5. WELDING ELECTRODES, IF UTILIZED, SHALL BE E70XX. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20FT-LBS AT ZERO DEGREES F AND COMPLYING WITH AWS D1.8-2016. SECTION 6.1.
3. STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE FOLLOWING:
   - A. WIDE FLANGE BEAMS SHALL CONFORM TO ASTM A992, GRADE 50, TYP. U.N.O.
   - B. STRUCTURAL STEEL CHANNELS SHALL CONFORM TO ASTM A36 (36 KSI) TYP. U.N.O. WHERE DRAWINGS SPECIFY 50 KSI, CHANNELS SHALL CONFORM TO ASTM A572, GR. 50. NOTE: ASTM A572, GR. 50 MAY BE SUBSTITUTED FOR ASTM A36 (36 KSI).
   - C. PIPE COLUMNS SHALL CONFORM TO ASTM A-53 WITH SULFUR CONTENT NOT EXCEEDING 0.05% TYP. U.N.O.
   - D. STRUCTURAL STEEL TUBING (HSS) FOR STEEL MOMENT FRAME COLUMNS PER SHEET S5.0 SHALL CONFORM TO ASTM A1085. ALL OTHER STEEL TUBING (HSS) MAY CONFORM TO ASTM A500 GRADE B OR C OR ASTM A1085, TYP UNO.
   - E. STEEL PLATES, ANGLES, BARS AND MISC. SHAPES SHALL CONFORM TO ASTM A36 (36 KSI) TYP. U.N.O. WHERE DRAWINGS SPECIFY 50 KSI, STEEL SHALL CONFORM TO ASTM A572, GR. 50. NOTE: ASTM A572, GR. 50. MAY BE SUBSTITUTED FOR ASTM A36 (36 KSI).
4. ERECTION - STRUCTURAL STEEL ERECTED TRUE, STRAIGHT, PLUMB AND TO ITS DESIGNATED LOCATIONS. FIELD CONNECTIONS BOLTED OR WELDED AS INDICATED ON THE DRAWINGS.
5. NAILS, BOLTS, SCREWS AND NUTS, ETC. - FOR EXTERIOR WORK SHALL BE CADMIUM PLATED OR GALVANIZED.
   - A. BOLTS FOR STRUCTURAL STEEL CONNECTIONS SHALL CONFORM TO ASTM A-307 UNLESS OTHERWISE NOTED. ALL HOLES FOR BOLTS THRU STEEL TO BE DRILLED, OR TORCHED PILOT HOLE AND REAMED TO DIAMETER OF BOLT +1/16" UNLESS OTHERWISE NOTED. NELSON STUDS (WELDED TO STEEL) MAY BE SUBSTITUTED FOR BOLTS SAME LENGTH AND DIAMETER.
   - B. SEE "FASTENERS FOR ATTACHMENT TO STEEL" ON SHEET N2.0 FOR SHOT PINS & SCREWS.
6. HANDRAILS - FABRICATED, AS DETAILED, NON-FILLET WELDS GROUND SMOOTH.
7. SHOP PAINT
   - A. EXPOSED STEEL COATED WITH ONE SHOP COAT OF RED OXIDE PRIMER.
   - B. ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO APPLICATION OF SHOP COATS.
8. TESTS
   - A. PROVIDE MILL CERTIFICATES OR TEST ALL STEEL MEMBERS PER TITLE-24 PART 2, CCR SECTION 1705A.2 & 2202A.

SECTION 6 CARPENTRY

1. SCOPE OF WORK
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL CARPENTRY.
2. MATERIALS
   LUMBER GRADE MARKED IN ACCORDANCE WITH AN APPROVED GRADING AGENCY PER DOC PS20-05 INCLUDING "STANDARD GRADING AND DRESSING RULES NO. 17" OF WEST COAST LUMBER INSPECTION BUREAU, OR "WESTERN LUMBER GRADING RULES", LATEST EDITION OF WESTERN WOOD PRODUCTS ASSOCIATION. OSB OR PLYWOOD GRADE MARKED IN ACCORDANCE WITH PRODUCT STANDARD PS 1-09, PS 2-10, OR PRP-108 FOR SOFTWOOD OSB OR PLYWOOD, OF THE AMERICAN PLYWOOD ASSOCIATION (APA). EACH SHEET SHALL BEAR THE STAMP OF APA, PITTSBURGH TESTING, OR TECO. MOISTURE CONTENT SHALL NOT EXCEED 19%.
   - A. JOISTS, HEADERS, PLATES, STUDS: DOUGLAS FIR S4S #2 OR HEM FIR S4S #2 MINIMUM, U.N.O. NOTE: MSR 1650 E1.5 MAY BE SUBSTITUTED FOR #2 GRADE IF IT MEETS THE STRUCTURAL REQUIREMENTS FOR FLOOR AND ROOF MEMBERS.
   - B. PSL HEADER, TRUS JOIST PARALLAM PSL BY WEYERHAEUSER (ICC ESR-1387) OR EQUIV. MEETING THE FOLLOWING STRUCTURAL PROPERTIES:

BEAMS ≤ 7" DEEP & COLUMNS	BEAMS ≥ 9¼" DEEP
F_b = 2400 PSI MIN.	F_b = 2900 PSI MIN.
F_v = 190 PSI MIN.	F_v = 290 PSI MIN.
E = 1.8E6 PSI MIN.	E = 2.0E6 PSI MIN.

   - C. POSTS AND TIMBERS: DOUGLAS FIR S4S #1 OR HEM FIR S4S #1 MIN.
   - D. BLOCKING: DOUG FIR #3, OR HEM FIR #3, OR STD. & BET.
   - E. SILLS AND LUMBER & SHIM PLATES IN CONTACT WITH CONCRETE, MASONRY OR EARTH: DOUG FIR #2 OR HEM FIR #2 MIN. PRESSURE TREATED IN ACCORDANCE WITH CBC 2304.12.1. EACH PIECE SHALL BEAR AWPA STAMP. AWPA STANDARD U1 & T1 GROUND CONTACT, D.F. (OR H.F.) #2 ABOVE GROUND.
   - F. MOISTURE BARRIER: KRAFT WATERPROOF BUILDING PAPER, OR 15 LB. FELT, CBC SECTION 1403.2. & ASTM D226, TYPE I.
   - G. STUDS - S4S DOUG FIR #2 OR #2 HEM FIR. MAXIMUM MOISTURE CONTENT OF 19% AT TIME OF INSTALLATION.
   - H. FASTENERS - EXTERIOR USE FASTENERS EXPOSED TO THE OUTSIDE ENVIRONMENT (INCLUDING FASTENERS USED FOR THE ATTACHMENT OF EXTERIOR WALL COVERINGS) SHALL BE CORROSION RESISTANT IN ACCORDANCE WITH C.B.C. SECTION 2304.10.1.1.

CARPENTRY continued

   - I. BUILDING TRIM - 2x RESAWN SELECT D.F., H.F., OR CEDAR.
   - J. DOOR/WINDOW TRIM - 1x4 RESAWN D.F., H.F., OR CEDAR.
   - K. FRAMING CONNECTORS SHALL BE FROM SIMPSON CATALOG LATEST ED.
   - L. FIRE BLOCKS SHALL CONFORM TO CBC SECTION 718.2
   - M. ALL NAILS SHALL BE COMMON NAILS PER ASTM F1667 UNLESS OTHERWISE NOTED.
   - N. ALL CUT ENDS AND HOLES IN PRESSURE TREATED LUMBER SHALL BE TREATED WITH "CUPRINOL".
   - O. ALL BOLTS AND LAG SCREWS SHALL COMPLY WITH THE 2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (ANSI/AWC NDS-2018).
   - P. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
   - Q. HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER AND DEPTH AS THE SHANK. THE REMAINDER OF THE HOLE SHALL BE 40% TO 70% OF THE SHANK DIAMETER.
   - R. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS AND NUTS WHICH BEAR ON WOOD.
3. WORKMANSHIP
   - A. FRAMING - SECURELY NAILED, BRIDGED AND BLOCKED TO FORM RIGID STRUCTURE. WORK CUT, FITTED AND ASSEMBLED LEVEL PLUMB AND TRUE TO LINE. TRIM IN AS LONG LENGTHS AS POSSIBLE WITH ALL STANDING TRIM IN ONE PIECE. TRIM SEALED AT ALL EDGES.
   - B. NAILING - IN ACCORDANCE WITH TITLE 24, CALIFORNIA BUILDING CODE, TABLE 2304.10.1.
   - C. EXTERIOR WALLS - FACTORY FABRICATED. CAULKING PROVIDED BETWEEN PERIMETER OF WALL AND STRUCTURAL MEMBERS PROVIDING WEATHER-PROOF AND WATER-TIGHT SEAL. NECESSARY CLOSERS, SEALS, AND FLASHINGS PLACED AT TOP AND BASE SUPPORT OF PANELS AND AROUND OPENINGS.
   - D. NAILS INTO P.T. LUMBER TO BE HOT DIPPED GALVANIZED.
   - E. MACHINE APPLIED NAILING: USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE RDPRC AND THE DIVISION OF THE STATE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" OSB. IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.
   - F. MOISTURE BARRIER - APPLIED TO STUDS WEATHER-BOARD FASHION, HORIZONTAL JOINTS LAPPED MIN 6" INCLUDING BUILDING CORNERS. SHEATHING APPLIED OVER MOISTURE BARRIER.
   - G. TRIM SEALED AT ALL EDGES. SEALANT PAINTED TO MATCH TRIM OR SIDING UNLESS TRANSPARENT TYPE.

SECTION 7A SHEET METAL (NON-STRUCTURAL)

1. SCOPE OF WORK

   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL INDICATED SHEET METAL.

2. MATERIALS
   - A. SHEET METAL - STEEL SHEETS HOT DIP GALVANIZED WITH 1.25 OZ. PER SQUARE FOOT ZINC COATING CONFORMING TO ASTM A653 MINIMUM 26 GA. UNLESS OTHERWISE NOTED ON THE DRAWINGS.
   - B. SOLDER - OF STAND, GRADE "A" OF EQUAL PARTS, ARD BRAND, LEAD AND TIN ASTM B32.
   - C. FLUX - ZINC SATURATED MURIATIC ACID.
   - D. GUTTERS: 26 GA. G-90 GALV. STEEL
     DOWNSPOUTS: 2"x3" CONVOLUTED 30 GA. G-90 GALV. STEEL
     GUTTER ENDCAPS: 26 GA. G-90 GALV. STEEL
     GUTTER CLIPS: 18 GA. G-90 GALV. STEEL
     FLASHING: 22 GA. G-90 GALV. STEEL U.O.N.
   - E. FASTENERS:
     SELF-DRILLING OR SELF-TAPPING SHEET METAL SCREWS.
     LENGTH TO HAVE (3) EXPOSED THREADS MIN.
3. WORKMANSHIP
   SHEET METAL ACCURATELY FORMED TO DIMENSIONS AND SHAPES DETAILED WITH TRUE STRAIGHT LINES, CORNERS AND ANGLES. FLASHING INSTALLED IN LONGEST LENGTHS POSSIBLE. EXTERIOR WORK FORMED, FABRICATED AND INSTALLED SO THAT IT ADEQUATELY PROVIDES FOR EXPANSION AND CONTRACTION IN THE COMPLETED WORK AND FINISHES WATER AND WEATHER TIGHT. ALUMINUM SHALL BE SEPARATED FROM FERROUS METAL BY POLYETHYLENE TAPE OR FLOOD COAT OF ASPHALTIC PAINT.

SECTION 7B METAL ROOFING

1. SCOPE OF WORK
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL METAL ROOFING.
2. MATERIALS
   - A. ROOF SHALL BE CONSTRUCTED OF 3" STANDING SEAM INTERLOCKING (UN-PENETRATED) STEEL SHEETS.
   - B. PROPERTIES INCLUDING THICKNESS SHALL BE PER SHEET S0.0.
   - C. BASE MATERIAL SHALL BE EITHER ASTM A1011 SS, GRADE 36 (Fy = 36 KSI) OR ASTM A653 SS, GRADE 37 (Fy = 37 KSI) AND SHALL BE GALVANIZED WITH G90 GALVANIZATION.
   - D. SHEETS MAY BE PAINTED.
   - E. CLASS B FIRE RATED.
   - F. CLIP ANGLES SHALL BE HOT-DIPPED GALVANIZED.
   - G. FASTENERS SHALL BE EXTERIOR USE SCREWS WITH A CORROSION PROTECTIVE COATING PER THE "FASTENERS FOR ATTACHMENT TO STEEL" SECTION ON SHEET N2.0. ALL SCREWS USED FOR METAL ROOFING ATTACHMENT SHALL HAVE A NEOPRENE OR EPDM WASHER.

SECTION 7C SEALANT

1. SCOPE OF WORK
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL AND SERVICES TO SEAL BUILDINGS.
2. MATERIALS
   VULKEM SEALANT, POLYURETHANE, MANUFACTURED BY MAMECO INTERNATIONAL FOR ROOFS. "GEOCEL" SILICONIZED CAULK, GE, DUPONT, EAGLESEAL OR DAP FOR ALL OTHER APPLICATIONS, OR EQUAL.
   - A. SEALANT V.O.C. LIMITS PER SCAQMD RULE 1168 (AS SHOWN IN TITLE 24, PART 11, TABLE 5.504.4.1 AND TABLE 5.504.4.2)
3. WORKMANSHIP
   SEALANT APPLIED TO DRY CLEAN SURFACES, WHEREVER INDICATED ON DETAILS AND AS NEEDED TO MAKE BUILDING WATERTIGHT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

SECTION 7D SINGLE-PLY ROOFING

1. SCOPE OF WORK
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL AND SERVICES TO INSTALL SINGLY-PLY OR BUILT-UP ROOFING. THE ROOFING SYSTEM SHALL WITHSTAND THE UPLIFT OF 100 MPH BASIC WIND SPEED.
2. MATERIALS
   MEMBRANE: PVC FILM LAMINATED TO BOTH SIDES OF A REINFORCEMENT FABRIC, OR EQUIV. - PROPRIETARY THERMOPLASTIC PVC FORMULATION OF RESINS, PLASTICIZERS, STABILIZERS, BIOCIDES, FLAME RETARDANTS, AND U.V. ABSORBENTS. CLASS B FIRE RATING.
   - A. WOOD NAILERS MUST BE A #2 GRADE LUMBER, OR EQUIVALENT, TO SUBSTRATE.
3. WORKMANSHIP
   MEMBRANE APPLIED ON SUBSTRATES THAT ARE DRY, CLEAN, AND FREE OF FINS, SHARP EDGES AND LOOSE, FOREIGN MATERIALS. WHEREVER INDICATED ON DETAILS. AN INSULATION OR SLIP SHEET HAVING AN APPROVED FACER MUST BE USED WHEN ROOFING OVER ASPHALT OR COAL TAR ROOFS.

SINGLE-PLY ROOFING continued

4. TESTING:
   - A. MEMBRANE SHALL BE DESIGNED TO PERFORM IN ALL TYPES OF WEATHER AND SHALL COMPLY TO ASTM D-2136 TESTING METHODS.
   - B. MEMBRANE SHALL BE DESIGNED IN ACCORDANCE TO ASTM D-4434 "STANDARD SPECIFICATIONS FOR POLY (VINYL CHLORIDE) SHEET ROOFING" AND BE CLASSIFIED AS A TYPE IV, INTERNALLY REINFORCED SHEET.

SECTION 8 HOLLOW METAL DOORS AND FRAMES

1. SCOPE OF WORK
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL HOLLOW METAL DOORS AND FRAMES.
2. MATERIALS
   - A. DOORS - INSULATED TYPE L FULL FLUSH, MANUFACTURED BY AMWELD MANUFACTURING COMPANY, 18 GA. 1-3/4" THICK PER CS242 MIN, REINFORCE FOR HARDWARE-BOTH FACES FOR CLOSER, SOUND DEADEN INTERIOR.
   - B. FRAMES - 16 GA COLD ROLLED, 2" FACES, CS242 MIN. 3 ANCHORS PER JAMB + ADJUSTABLE FLOOR ANCHOR, EACH JAMB REINFORCE FOR HARDWARE. PROVIDE STRIKE BOX, PROVIDE SOUND DEADENING: 1/8" UNDERCOATING OR INSULATING FILL.
3. WORKMANSHIP
   ALL WORK FABRICATED IN SHOP TO REQUIRED PROFILES BY FORMING AND WELDING, WITH ARISES AND EDGES STRAIGHT, SHARP FIT FABRICATED ACCURATELY WITH SQUARE CORNERS, HAIRLINE JOINTS AND SURFACES FREE FROM WARP, WAVE, BUCKLE OR OTHER DEFECTS AFTER FABRICATION, DOORS AND FRAMES CLEANED THOROUGHLY, ALL WELDS GROUND SMOOTH AND GIVEN PRIME COAT.

SECTION 9A STUCCO (EXTERIOR PORTLAND CEMENT PLASTER)

LATHING AND PLASTERING MATERIALS AND ACCESSORIES SHALL BE MARKED BY THE MANUFACTURER'S DESIGNATION TO INDICATE COMPLIANCE WITH THE APPROPRIATE STANDARDS REFERENCED IN THIS SECTION AND STORED IN SUCH A MANNER TO PROTECT THEM FROM THE WEATHER, PER C.B.C 2507.1.

LATHING AND PLASTERING MATERIALS SHALL CONFORM TO THE STANDARDS LISTED IN C.B.C. TABLE 2507.2 AND CHAPTER 35, AND, WHERE REQUIRED FOR FIRE PROTECTION, SHALL ALSO CONFORM TO THE PROVISIONS OF CHAPTER 7.

GYPSUM BOARD AND GYPSUM PLASTER CONSTRUCTION SHALL BE OF THE MATERIALS LISTED IN C.B.C. TABLES 2506.2 AND 2507.2. THESE MATERIALS SHALL BE ASSEMBLED AND INSTALLED IN COMPLIANCE WITH THE APPROPRIATE STANDARDS LISTED IN TABLES 2508.1 AND 2511.1, AND CHAPTER 35 (PER 2508.1).

WATER-RESISTIVE BARRIERS SHALL BE IN ACCORDANCE WITH C.B.C. SECTION 2510.6. WATER-RESISTIVE BARRIERS SHALL BE INSTALLED AS REQUIRED PER SECTION 1404.2, AND WHERE APPLIED OVER WOOD-BASED SHEATHING, SHALL INCLUDE A WATER-RESISTIVE VAPOR-PERMEABLE BARRIER WITH A PERFORMANCE AT LEAST EQUIVALENT TO TWO LAYERS OF GRADE D PAPER.

EXCEPTION: WHERE THE WATER-RESISTIVE BARRIER THAT IS APPLIED OVER WOOD-BASED SHEATHING HAS A WATER RESISTANCE EQUAL TO OR GREATER THAN THAT OF ONE-MINUTE GRADE D PAPER COMPLYING WITH ASTM E 2556, TYPE II AND IS SEPARATED FROM THE STUCCO BY AN INTERVENING, SUBSTANTIALLY NONWATER-ABSORBING LAYER OR DRAINAGE SPACE.

1. PLASTER NOTES: PLASTERING WITH CEMENT PLASTER SHALL NOT BE LESS THAN THREE COATS WHEN APPLIED OVER METAL LATH OR WIRE FABRIC LATH AND SHALL NOT BE LESS THAN TWO COATS WHEN APPLIED OVER MASONRY CONCRETE OR GYPSUM BACKING AS SPECIFIED IN SECTION 2510.5.
   - A. THE FIRST COAT SHALL BE MIN. 3/8" THICK & APPLIED WITH SUFFICIENT MATERIAL AND PRESSURE TO FILL SOLIDLY ALL OPENINGS IN THE LATH. THE SURFACE SHALL BE SCORED HORIZONTALLY SUFFICIENTLY ROUGH TO PROVIDE ADEQUATE BOND TO RECEIVE THE SECOND COAT.
   - B. THE SECOND COAT SHALL BE BROUGHT OUT TO MIN. 3/8" THICKNESS, RODDED AND FLOATED SUFFICIENTLY ROUGH TO PROVIDE ADEQUATE BOND FOR THE FINISH COAT. THE SECOND COAT SHALL HAVE NO VARIATION GREATER TO THAN 1/4 INCH (6.4 mm) IN ANY DIRECTION UNDER 5-FOOT STRAIGHT EDGE.
   - C. THE FINISH COATS SHALL BE MIN. 1/8" THICK & APPLIED OVER BASE COATS THAT HAVE BEEN IN PLACE FOR THE TIME PERIODS SET FORTH IN ASTM C 926. THE THIRD OR FINISH COAT SHALL BE APPLIED WITH SUFFICIENT MATERIAL AND PRESSURE TO BOND TO AND TO COVER THE BROWN COAT AND SHALL BE OF SUFFICIENT THICKNESS TO CONCEAL THE BROWN COAT.

SECTION 9B PAINTS & COATINGS

1. SCOPE OF WORK.
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PAINT BUILDING. ALL EXPOSED SURFACES OF BUILDING AND RAMPS SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES, THRESHOLDS, AND ROOFING.
2. MATERIALS
   - A. FOR EXTERIOR WOOD:

REF.BRAND	DUNN EDWARDS	KELLY MOORE	SHERWIN WILLIAMS	SINCLAIR
PRIMER	42-9M	1240	Y24W20	289-N
FINISH	QD-60

☒ DEFAULT CONCRETE MIX DESIGN REQUIREMENTS FOR BELOW GRADE NORMAL WEIGHT CONCRETE [1]

BELOW GRADE CONCRETE ELEMENT	MAXIMUM W/C RATIO	MINIMUM 28-DAY STRENGTH (f'_c) (PSI)	CEMENTITIOUS MATERIALS (CEMENT TYPE PER ASTM C150)	TARGET AIR CONTENT (%)		
				MAX AGGREGATE SIZE (IN)	☐ CONCRETE NOT EXPOSED TO FREEZING-AND-THAWING CYCLES	☐ CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES
FOUNDATIONS [2]	0.45	4500	V	1" ± ¼"	N/A	6
FOUNDATION VENTS & ACCESS WELLS	0.45	4500	V	3/8"	N/A	7.5
				1/2"	N/A	7
				1" ± ¼"	N/A	6

[1] PROPORTIONING OF CONCRETE MIXTURES SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.3.
DOCUMENTATION OF CONCRETE MIXTURE CHARACTERISTICS SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.4.
CEMENT SHALL BE CERTIFIED PER TITLE 24, PART 2, SECTION 1910A.1.
SEE CONCRETE NOTES ON SHEET N1.0 FOR ADDITIONAL REQUIREMENTS.
[2] FOUNDATIONS CONSERVATIVELY DESIGNED FOR A MIMINUM 28-DAY CONCRETE STRENGTH OF 3,500 PSI.

☐ OPTIONAL SITE-SPECIFIC CONCRETE MIX DESIGN REQUIREMENTS FOR BELOW GRADE NORMAL WEIGHT CONCRETE [1]

(MOST RESTRICTIVE REQUIREMENTS FROM EXPOSURE TABLES BELOW)

BELOW GRADE CONCRETE ELEMENT	MAXIMUM W/C RATIO	MINIMUM 28-DAY STRENGTH (f'_c) (PSI)	CEMENTITIOUS MATERIALS (CEMENT TYPE PER ASTM C150)	MAX AGGREGATE SIZE (IN)	TARGET AIR CONTENT (%)	MAXIMUM WATER-SOLUBLE CHLORIDE ION (Cl-) CONTENT IN CONCRETE, PERCENT BY WEIGHT OF CEMENT
FOUNDATIONS [2]				1" ± ¼"		
FOUNDATION VENTS & ACCESS WELLS				3/8"		
				1/2"		
				1" ± ¼"		

[1] PROPORTIONING OF CONCRETE MIXTURES SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.3.
DOCUMENTATION OF CONCRETE MIXTURE CHARACTERISTICS SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.4.
CEMENT SHALL BE CERTIFIED PER TITLE 24, PART 2, SECTION 1910A.1.
SEE CONCRETE NOTES ON SHEET N1.0 FOR ADDITIONAL REQUIREMENTS.
[2] FOUNDATIONS HAVE BEEN DESIGNED FOR THE WORST CASE MIMINUM 28-DAY CONCRETE STRENGTH OF 3,500 PSI.

EXPOSURE CATEGORY: FREEZING & THAWING (F)
(ACI 318-14, SECTION 19.3)

EXPOSURE CLASS [1]		CONDITION	MAXIMUM W/C RATIO	MINIMUM 28-DAY STRENGTH (f'_c) (PSI)		AIR CONTENT	
				FOUNDATIONS	FOUNDATION VENTS & ACCESS WELLS	MAX AGGREGATE SIZE (IN) [2]	TARGET AIR CONTENT (%)
☐	F0	CONCRETE NOT EXPOSED TO FREEZING-AND-THAWING CYCLES	0.55	3500	3000	N/A	
☐	F1	CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES WITH LIMITED EXPOSURE TO WATER	0.55	3500	3500	3/8 1/2 3/4 1 1½	6 5.5 5 4.5 4.5
☐	F2	CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES WITH FREQUENT EXPOSURE TO WATER	0.45	4500	4500	3/8 1/2 3/4 1 1½	7.5 7 6 6 5.5
☐	F3	CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES WITH FREQUENT EXPOSURE TO WATER AND EXPOSURE TO DEICING CHEMICALS	0.40	5000	5000		

[1] IF EXPOSURE CLASS IS UNCERTAIN, F2 MAY BE ASSUMED.
[2] SEE CONCRETE NOTES ON SHEET N1.0 FOR MAX AGGREGATE SIZES.

EXPOSURE CATEGORY: SULFATE (S)
(ACI 318-14, SECTION 19.3)

EXPOSURE CLASS [1]		CONDITION		MAXIMUM W/C RATIO	MINIMUM 28-DAY STRENGTH (f'_c) (PSI)		CEMENTITIOUS MATERIALS (CEMENT TYPE PER ASTM C150)
		WATER-SOLUBLE SULFATE (SO_4^{2-}) IN SOIL, PERCENT BY MASS [2]	DISSOLVED SULFATE (SO_4^{2-}) IN WATER, PPM [3]		FOUNDATIONS	FOUNDATION VENTS & ACCESS WELLS	
☐	S0	$SO_4^{2-} < 0.10$	$SO_4^{2-} < 150$	0.55	3500	3000	I OR II
☐	S1	$0.10 \le SO_4^{2-} < 0.20$	$150 \le SO_4^{2-} < 1500$ OR SEAWATER	0.50	4000	4000	II
☐	S2	$0.20 \le SO_4^{2-} \le 2.00$	$1500 \le SO_4^{2-} \le 10,000$	0.45	4500	4500	V
☐	S3	$SO_4^{2-} > 2.00$	$SO_4^{2-} > 10,000$	0.45	4500	4500	V PLUS FLYASH OR SLAG CEMENT [4]

[1] IF EXPOSURE CLASS IS UNKNOWN, S2 MAY BE ASSUMED.
[2] PERCENT SULFATE BY MASS IN SOIL SHALL BE DETERMINED BY ASTM C1580.
[3] CONCENTRATION OF DISSOLVED SULFATES IN WATER, IN PPM, SHALL BE DETERMINED BY ASTM D516 OR ASTM D4130.
[4] PER ACI 318-14, TABLE 19.3.2.1, FOOTNOTE 6, THE AMOUNT OF THE SPECIFIC SOURCE OF THE POZZOLAN OR SLAG CEMENT TO BE USED SHALL BE AT LEAST THE AMOUNT THAT HAS BEEN DETERMINED BY SERVICE RECORD TO IMPROVE SULFATE RESISTANCE WHEN USED IN CONCRETE CONTAINING TYPEV CEMENT. ALTERNATIVELY, THE AMOUNT OF THE SPECIFIC SOURCE OF THE POZZOLAN OR SLAG CEMENT TO BE USED SHALL BE AT LEAST THE AMOUNT TESTED IN ACCORDANCE WITH ASTM C1012 AND MEETING THE CRITERIA IN ACI 318-14, SECTION 26.4.2.2(c). SEE CONCRETE NOTES ON SHEET N1.0 FOR ADDITIONAL REQUIREMENTS.

EXPOSURE CATEGORY: IN CONTACT WITH WATER (W)
(ACI 318-14, SECTION 19.3)

EXPOSURE CLASS		CONDITION	MAXIMUM W/C RATIO	MINIMUM 28-DAY STRENGTH (f'_c) (PSI)		ADDITIONAL REQUIREMENTS
				FOUNDATIONS	FOUNDATION VENTS & ACCESS WELLS	
☐	W0	CONCRETE DRY IN SERVICE OR CONCRETE IN CONTACT WITH WATER AND LOW PERMEABILITY IS NOT REQUIRED	0.55	3500	3000	NONE
☐	W1 [1]	CONCRETE IN CONTACT WITH WATER AND LOW PERMEABILITY IS REQUIRED	0.50	4000	4000	NONE

[1] EXPOSURE CLASS W1 IS ONLY REQUIRED IF CONCRETE IS BELOW THE GROUNDWATER TABLE.

EXPOSURE CATEGORY: CORROSION PROTECTION OF REINFORCEMENT (C)
(ACI 318-14, SECTION 19.3)

EXPOSURE CLASS		CONDITION	MAXIMUM W/C RATIO	MINIMUM 28-DAY STRENGTH (f'_c) (PSI)		MAXIMUM WATER-SOLUBLE CHLORIDE ION (Cl^-) CONTENT IN CONCRETE, PERCENT BY WEIGHT OF CEMENT
				FOUNDATIONS	FOUNDATION VENTS & ACCESS WELLS	
☐	C1	CONCRETE EXPOSED TO MOISTURE BUT NOT TO AN EXTERNAL SOURCE OF CHLORIDES	0.55	3500	3000	0.30
☐	C2	CONCRETE EXPOSED TO MOISTURE AND AN EXTERNAL SOURCE OF CHLORIDES FROM DEICING CHEMICALS, SALT, BRACKISH WATER, SEAWATER, OR SPRAY FROM THESE SOURCES	0.40	5000	5000	0.15

SHEET NOTES:
1. THE DEFAULT CONCRETE MIX DESIGN REQUIREMENTS MAY BE SELECTED AND USED TO DETERMINE THE CONCRETE MIX REQUIREMENTS FOR ANY SITE PER DSA IR PC-2 SECTION 4.5.1 OR PC-6 SECTION 4.4.1.
2. THE DEFAULT CONCRETE MIX DESIGN REQUIREMENTS MAY BE SELECTED REGARDLESS OF WHETHER A SITE SPECIFIC GEOTECHNICAL REPORT EXISTS FOR THE SITE.
3. IF THE SITE CONDITIONS FOR THE SOIL ARE KNOWN AS REPORTED BY A GEOTECHNICAL OR OTHER APPROVED SOIL CONDITIONS REPORT, THE OPTIONAL SITE-SPECIFIC CONCRETE MIX DESIGN REQUIREMENTS MAY BE UTILIZED.
4. IF THE OPTIONAL SITE-SPECIFIC CONCRETE MIX DESIGN REQUIREMENTS ARE UTILIZED, THE REPORT MUST BE REFERENCED ON THE COVER SHEET OF THIS DRAWING PACKAGE.

D:\XXXXX-Jobs\AMS\BUILDS\Bldg Builds\2022\2022XXXX\Bldg Builds\2022XXXX_Bldg Builds\Revit\2022XXXX_Bldg Builds_Central.rvt 12/14/2022 7:42:47 AM Steven.Hu

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
.
.
.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
BENJAMIN PATRICK DENNEY
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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

REVISIONS
1
2
3
4

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

SHEET TITLE:
BELOW GRADE CONCRETE MIX DESIGN REQUIREMENTS

SHEET NUMBER:
N1.0A

COORDINATION OF WORK

THE CONTRACTOR IS RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS WITH THE SCHOOL DISTRICT AUTHORIZED REPRESENTATIVE FOR ACCESS TO GROUNDS AND REMOVAL OF EQUIPMENT, IF NECESSARY. THIS CONTACT SHALL BE MADE AT LEAST 48 HOURS PRIOR TO DELIVERY OF ANY MODULE. ON-SITE INSPECTION SHALL BE DONE BY THE SITE INSPECTOR. ALL WORK WHICH THE MANUFACTURER OR HIS SUBCONTRACTORS PERFORM AT THE SITE SHALL BE SUBJECT TO THE INSPECTION OF THE SITE INSPECTOR. THE MANUFACTURER WILL FURNISH THE SITE INSPECTOR WITH SUCH INFORMATION AS MAY BE NECESSARY TO KEEP HIM FULLY INFORMED AS TO PROGRESS OF WORK AND DATES WHEN SITE WORK WILL OCCUR. THE CONTRACTOR SHALL NOTIFY THE INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.

THE CONTRACTOR SHALL VERIFY THAT THE DISTRICT'S SITE IS READY TO RECEIVE THE CLASSROOM(S) PRIOR TO THE DELIVERY OF ANY CLASSROOM(S) BY VISITING EACH SITE (THIS MAY BE DONE BY THE INSPECTOR).

MATERIALS AND WORKMANSHIP

1. ALL CONTRACTORS SHALL CERTIFY THAT NO ASBESTOS-CONTAINING BUILDING MATERIALS WHICH EXCEED STATE AND FEDERAL MANDATED SAFE ASBESTOS LEVELS HAVE BEEN USED IN THE CONSTRUCTION OF RELOCATABLE FACILITIES.
2. ALL WORKMEN SHALL BE SKILLED AND QUALIFIED FOR THE WORK WHICH THEY PERFORM. ALL MATERIALS USED, UNLESS OTHERWISE SPECIFIED, SHALL BE NEW AND OF THE TYPES AND GRADES SPECIFIED. THE CONTRACTOR SHALL, IF REQUESTED, FURNISH EVIDENCE SATISFACTORY TO THE RDPRC THAT SUCH IS THE CASE.
3. CONTRACTOR'S CREWS ASSIGNED TO ANY WORK PERFORMED UNDER THIS CONTRACT SHALL INCLUDE ONE COMPETENT AND FULLY EXPERIENCED PERSON DESIGNATED AS THE RESPONSIBLE PERSON IN CHARGE. SUCH PERSON MUST BE IDENTIFIED BY NAME TO THE DISTRICT IN ADVANCE OF ANY WORK. UPON REQUEST, THE CONTRACTOR SHALL PROMPTLY FURNISH TO THE DISTRICT INFORMATION RELATING TO THIS EMPLOYEE'S EXPERIENCE.
4. WORKMANSHIP SHALL BE EQUAL OR BETTER IN QUALITY TO THAT REQUIRED BY THE CONSTRUCTION TRADES FOR A FINISHED PRODUCT. A QUALITY CONTROL SUPERVISOR, DESIGNATED BY THE MANUFACTURER, SHALL REVIEW ALL WORK IN PROGRESS AND SHALL REVIEW THE FINISHED BUILDING PRIOR TO FINAL INSPECTION TO ASSURE IT IS COMPLETE AND CORRECT. THE QUALITY CONTROL SUPERVISOR SHALL HAVE THE AUTHORITY TO HAVE MATERIALS REPLACED AND WORK REDONE IN ORDER TO CORRECT FAULTY MATERIALS OR WORKMANSHIP.

GENERAL DESIGN REQUIREMENTS

1. ONE (1) MODULE, APPROXIMATELY 12' x 40', DESIGNED TO STAND ALONE OR COMBINED WITH TO MAINTAIN A POSITIVE ALIGNMENT OF FLOORS, WALLS, AND ROOF, AND TO PERMIT SIMPLE NON-DESTRUCTIVE DETACHMENT FOR FUTURE RELOCATION.
2. EACH MODULE SHALL BE PERMANENTLY IDENTIFIED WITH (2) IMPRINTED (STAMPED, NOT ENGRAVED) METAL IDENTIFICATION TAGS 3"x1-1/2" MINIMUM SIZE WITH THE FOLLOWING INFORMATION:
   - A. MANUFACTURER'S NAME AND BUILDING SERIAL NUMBER.
   - B. DESIGN WIND SPEED / EXPOSURE
   - C. DESIGN SEISMIC S_{DS} VALUE
   - D. DESIGN ROOF LIVE LOAD
   - E. DESIGN FLOOR LIVE LOAD
   - F. D.S.A. APPLICATION NUMBER
3. 2-TAGS PER MODULE: ONE ON EXTERIOR, AND ONE ON MODULE BEAM AT FRONT OF BUILDING ABOVE CEILING.
4. EACH MODULE SHALL BE CAPABLE OF RESISTING ALL VERTICAL AND LATERAL LOADS DURING TRANSPORTATION AND RELOCATION. (NORMAL INDUSTRY PRACTICE FOR BRACING MODULES DURING TRANSPORTATION AND RELOCATIONS IS ACCEPTABLE.) WHEN MODULES ARE ASSEMBLED JOINTS SHALL BE SEALED WITH REMOVABLE CLOSING STRIPS OR OTHER METHOD TO PRESENT A FINISHED APPEARANCE AND BE PERMANENTLY WATERPROOF.
5. EACH MODULE SHALL BE SUFFICIENTLY RIGID TO BE JACKED UP AT THE FRONT AND BACK CORNERS FOR RELOCATION WITHOUT DAMAGE OR THE MODULE SHALL HAVE LIFT LUGS AT FRONT AND BACK LOCATED AS REQUIRED SO THAT THE MODULE MAY BE JACKED UP FOR RELOCATION IN ONE PIECE WITHOUT ADDITIONAL SUPPORTS OF ANY TYPE. EVIDENCE OF EXCESSIVE BOWING DURING THE INSTALLATION OF THE MODULES WHICH, IN THE OPINION OF THE RDPRC, CAUSES EXCESSIVE WORKING AT ANY JOINT OR COMPROMISES THE STRUCTURAL INTEGRITY OF THE MODULE SHALL BE SUFFICIENT REASON FOR REJECTION OF THE MODULE.
6. FINISH AND BASE MATERIALS AT EACH MODULE SHALL TERMINATE AT INTERIOR MODULE JOINTS IN A MANNER TO JOIN FLUSH AND TIGHT WITH SAME MATERIAL IN ADJACENT MODULE SO THE MODULE MAY BE RELOCATED WITH MINIMUM CUTTING AND PATCHING.

MARKERBOARD SPECIFICATIONS

MARKERBOARDS SHALL BE 24 GA. PORCELAIN STEEL FACING SHEET SUITABLE TO ACCEPT DRY ERASE FELT MARKERS. THE FACING SHEET SHALL BE LAMINATED TO PARTICLE BOARD SUBSTRATE WITH A MINIMUM DENSITY OF 45lbs./cu.ft. THE PANEL SHALL HAVE A FOIL BACKING. THE PANELS SHALL HAVE EXTRUDED ALUMINUM MOLDING AND CHALKRAIL WITH A MINIMUM OF 2 15/16" PROJECTION FROM THE FACE OF PANEL. THREE MAP HOOKS WITH CLIPS PER PANEL SHALL BE PROVIDED. ONE FLAG HOLDER, 1/2" SIZE, SHALL BE PROVIDED FOR EACH CLASSROOM. EACH CLASSROOM SHALL HAVE 2 EACH 4'x8' PANELS INSTALLED SIDE BY SIDE TO MAKE A 4'x16' PANEL, CENTERED ON THE WALL.

FOR ANCHORAGE DETAIL, SEE DETAIL 8/A4.0.

REFERENCE BRANDS: CHATFIELD-CLARKE Co, Inc. SERIES 500 OR
NELSON ADAMS Co. NACO SERIES 60.

INTERIOR

1. FLOOR COVERING: PER CBC SECTION 804, COMPLY WITH NFPA 253 CLASS I OR II. COMPLY WITH ASTM E 648 FOR SPECIFIC OPTICAL DENSITY SMOKE RATING NOT TO EXCEED 450. IN EXIT PASSAGEWAYS OR CORRIDORS, THE MINIMUM CRITICAL RADIANT FLUX (CBC 804.4.2) SHALL NOT BE LESS THAN CLASS II. (CARPET SHALL BE SECURELY ATTACHED, HAVE FIRM CUSHION, PAD OR BACKING, OR NONE AT ALL. PILE YARN SHALL BE BRANDED NYLON AND HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL-CUT PILE OR LEVEL-CUT/UNCUT PILE TEXTURE. THE MAXIMUM PILE HEIGHT SHALL BE 1/2" INCH. NO CROSS SEAMS SHALL BE ALLOWED. THE CARPET DENSITY SHALL BE 4600 MINIMUM. CARPET EDGE TRIM SHALL COMPLY WITH SECTION 11B-303. COLOR TO BE SELECTED BY THE RDPRC OR OWNER.)
2. BASE: RESILIENT COVE BASE - BEST QUALITY, MOULDED RUBBER, 1/8" THICK, 4" HIGH MOULDED TOP SET COVE. PROVIDE PREFORMED BASE FOR SQUARE EXTERNAL CORNERS AND PREFORMED END STOPS WHERE BASE DOES NOT ABUT. SOLID COLOR AS MANUFACTURE BY "JOHNSONITE CO.", FLEXCO, OR EQUAL. APPLY COVE TO COMPLETE PERIMETER OF CLASSROOM.
3. INTERIOR WALLS SHALL BE VINYL COVERED TACKBOARD (U.O.N.) APPLIED IN ONE CONTINUOUS LENGTH FROM FLOOR TO CEILING. THE TACKBOARD SHALL BE INDUSTRIAL INSULATION BOARD MANUFACTURED SPECIFICALLY AS A SUBSTITUTE FOR VINYL COVERED WALL PANELS. THE BOARD SHALL BE ASPHALT FREE, SHALL HAVE AN IRONED-ON COATING AND SHALL HAVE A MINIMUM DENSITY OF 18 LBS. PER FOOT. THE VINYL COATING SHALL BE MADE OF VIRGIN VINYL CALENDERED BASE COLOR, WEIGHING A MINIMUM OF 8 OZ. PER SQUARE YARD. THE COATING BACKING SHALL BE SHEETING OR NON-WOVEN FABRIC. THE VINYL COATING SHALL BE MECHANICALLY LAMINATED, WITH THE LONG EDGES WRAPPED, TO THE TACKBOARD. TACKBOARD SHALL BE APPLIED OVER 1/2" SHEETROCK OR OSB SHEATHING. THE VINYL WALL COVERED PANEL SHALL HAVE A CLASS 'C' RATING (PER ASTM E 84 OR UL 723). FLAME SPREAD/SMOKE DEVELOPED INDEX MAXIMUMS PER NOTE #6 BELOW. THE PANEL SHALL BE APPROVED FOR CLASSROOM USE BY THE CALIFORNIA STATE FIRE MARSHAL. REFERENCE BRAND: VINYL COVERED TACKBOARD AS MANUFACTURED BY CHATFIELD-CLARKE OR COMPARABLE. CARE SHALL BE TAKEN IN MOUNTING THE TACKBOARD SO THAT THE TEXTURE OF ALL PANELS WILL HAVE THE SAME ORIENTATION AND COLOR MATCH.
4. CEILING: SUSPENDED T-BAR SYSTEM, SEE SHEET M1.4 FOR DETAILS, MATERIALS AND INSTALLATION PER ASTM C635, ASTM E580, AND DSA-IR 25-2.13 AS APPLICABLE TO CLASSROOMS. PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL-FACED FIBERGLASS LAY-IN PANELS, SQUARE EDGE, LIGHT REFLECTION 75% MINIMUM. NOISE REDUCTION COEFFICIENT OF 0.65 MINIMUM. ASTM E 84 TESTED, RATED CLASS 'C': FLAME SPREAD INDEX NOT TO EXCEED 200, SMOKE DEVELOPED INDEX RATING NOT TO EXCEED 450.
5. THE INTERIOR ENVIRONMENT SHALL BE ASSEMBLED WITH PRODUCTS THAT CONTRIBUTE TO A HEALTHY INDOOR AIR QUALITY (IAQ). THE FOLLOWING SHALL COMPLY TITLE 24, PART 11 ("CAL-GREEN"), SECTION 5.504.4.
(SEE SHEET N1.0, SECTION 9C "INTERIOR AIR QUALITY CONTROL")
6. FLAME SPREAD/SMOKE-DEVELOPED INDEX (TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723, PER CBC 803.1.1):

WALL FINISH MATERIAL (CLASS 'C')	PIPE INSULATION (CLASS 'A')
FLAME SPREAD MAX = 200	FLAME SPREAD MAX = 25
SMOKE DEVELOPED MAX = 450	SMOKE DEVELOPED MAX = 450
BUILDING INSULATION (CLASS 'A')	**DUCT INSULATION (CLASS 'A')**
FLAME SPREAD MAX = 25	FLAME SPREAD MAX = 25
SMOKE DEVELOPED MAX = 450	SMOKE DEVELOPED MAX = 50

7. TOILET PARTITIONS: SOLID PLASTIC BY ACCURATE PARTITIONS CORP. OR EQUIVALENT w/ FLOOR ANCHORS, OVERHEAD BRACED OR EQUIVALENT. MINIMUM FLAME SPREAD RATING: 50. MINIMUM SMOKE DEVELOPMENT RATING: 450. (BY OTHERS)
8. INTERIOR VENTILATION: EAVE VENTS AND ATTIC VENTS SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE CLOTH SCREENING, HARDWARE CLOTH, PERFORATED VINYL OR SIMILAR MATERIAL WITH OPENINGS HAVING A LEAST DIMENSION OF NOT LESS THAN 1/16" AND NOT MORE THAN 1/4" INCH, PER C.B.C. SECTION 1202.2.2.

DOORS & WINDOWS

1. EXTERIOR DOORS: METAL DOORS - 3'-0"x7'-0" HOLLOW METAL DOOR CONSTRUCTION OF 1 SHEET OF 18 GA. GRADE II STEEL ASSEMBLED PER CS242 MINIMUM, AND REINFORCED WITH 20 GA. MINIMUM. FILL DOOR SPACES WITH MINERAL WOOL OR OTHER INSULATION. (REINFORCE BOTH FACES FOR CLOSURE.) PROVIDE FLUSH TOP ON DOORS. HARDWARE REINFORCEMENT SHALL BE 10 GA. MIN FOR HINGES, DOOR FRAME SHALL BE 16 GA. PRESSED STEEL FRAME ASTM A366 & C5242. HARDWARE REINFORCEMENT SHALL BE 10 GA. PLATE. FRAMES SHALL BE DESIGNED WITH INTEGRAL STOP AND TRIM. PROVIDE (3) ANCHORS PER JAMB PLUS ADJUSTABLE FLOOR ANCHOR. ROOMS WITH AN OCCUPANT LOAD OF FIVE OR MORE SHALL HAVE DOOR HARDWARE CAPABLE OF BEING LOCKED FROM THE INSIDE (PER CBC 1010.1.11).
2. EXTERIOR WINDOWS: PROVIDE ANODIZED ALUMINUM FRAME 5/8" MINIMUM DUAL PANE WINDOW UNITS, AS SHOWN ON FLOOR PLANS. THE 5/8" DIMENSION IS THE MINIMUM THICKNESS FOR THE DUAL GLAZED WINDOW PANEL CONSISTING OF TWO LITES OF GLASS AND THE AIR SPACE.
3. GLAZING MATERIAL SHALL BE: EXTERIOR LITE - 3/16" MINIMUM TEMPERED GLASS OR LAMINATED AS - 1 GLASS OF SOLAR GRAY GLARE REDUCING TYPE WITH A LIGHT TRANSMISSION FACTOR OF 45% MAXIMUM. INTERIOR LITE - 1/8" MINIMUM CLEAR TEMPERED. MINIMUM AIR SPACE SHALL BE 1/4" SPACE - BENT OR SEALED CORNER ALUMINUM WITH DESICCANT FILL SEALER - BUTYL PRIMARY SEAL AND POLYSULFIDE OR SILICONE SECONDARY SEAL. CERTIFICATION - ALL GLAZING TO BE CERTIFIED IN ACCORDANCE WITH ASTM E-773, E-774.
4. HEADER HEIGHT SHALL BE THE SAME AS THE DOOR. ALL OPERABLE SASH SHALL HAVE ALUMINUM SCREENS. WINDOWS SHALL NOT BE MOUNTED TO THE EXTERIOR OSB SURFACE. ALL WINDOWS SHALL MEET THE AAMA GS101-88 VOLUNTARY SPEC. FOR ALUMINUM PRIME WINDOWS AND SLIDING GLASS (ANS1), COMMERCIAL GRADE.
5. WINDOWS TO MATCH WHAT IS REQUIRED BY ENERGY REPORT. IF WINDOWS MUST BE NFRC RATED THAN NFRC LABELS SHALL BE LEFT ON THE WINDOWS FOR THE INSPECTOR TO VERIFY.

MECHANICAL EQUIPMENT PROTECTION

1. ALL MECHANICAL EQUIPMENT SHALL BE THOROUGLY CLEANED PROGRESSIVELY DURING CONSTRUCTION AND COMPLETION OF THE JOB. ALL OPEN ENDS OF DUCTWORK AND EQUIPMENT SHALL BE COVERED AT END OF EACH WORK DAY AND DURING SHIPMENT OF RELOCATABLE BUILDINGS

FOUNDATION CLEARANCES FROM SLOPES

CBC 1808A.7.1 BUILDING CLEARANCE FROM ASCENDING SLOPES. IN GENERAL, BUILDINGS BELOW SLOPES SHALL BE SET A SUFFICIENT DISTANCE FROM THE SLOPE TO PROVIDE PROTECTION FROM SLOPE DRAINAGE, EROSION AND SHALLOW FAILURES. EXCEPT AS PROVIDED IN SECTION CBC 1808A.7.5 AND FIGURE CBC 1808A.7.1, THE FOLLOWING CRITERIA WILL BE ASSUMED TO PROVIDE THIS PROTECTION. WHERE THE EXISTING SLOPE IS STEEPER THAN ONE UNIT VERTICAL IN ONE UNIT HORIZONTAL (100-PERCENT SLOPE), THE TOE OF THE SLOPE SHALL BE ASSUMED TO BE AT THE INTERSECTION OF A HORIZONTAL PLANE DRAWN FORM THE TOP OF THE FOUNDATION AND A PLANE DRAWN TANGENT TO THE SLOPE AT AN ANGLE OF 45 DEGREES (0.79 RAD) TO THE HORIZONTAL. WHERE A RETAINING WALL IS CONSTRUCTED AT THE TOE OF THE SLOPE, THE HEIGHT OF THE SLOPE SHALL BE MEASURED FROM THE TOP OF THE WALL TO THE TOP OF THE SLOPE.

CBC 1808A.7.2 FOUNDATION SETBACK FROM DESCENDING SLOPE SURFACE. FOUNDATIONS ON OR ADJACENT TO SLOPE SURFACES SHALL BE FOUNDED IN FIRM MATERIAL WITH AN EMBEDMENT AND SET BACK FROM THE SLOPE SURFACE SUFFICIENT TO PROVIDE VERTICAL AND LATERAL SUPPORT FOR THE FOUNDATION WITHOUT DETRIMENTAL SETTLEMENT. EXCEPT AS PROVIDED FOR IN SECTION CBC 1808A.7.5 AND FIGURE CBC 1808A.7.1, THE FOLLOWING SETBACK IS DEEMED ADEQUATE TO MEET THE CRITERIA. WHERE THE SLOPE IS STEEPER THAN 1 UNIT VERTICAL IN 1 UNIT HORIZONTAL 100-PERCENT SLOPE), THE REQUIRED SETBACK SHALL BE MEASURED FROM AN IMAGINARY PLANE 45 DEGREES (0.79 RAD) TO THE HORIZONTAL, PROJECTED UPWARD FROM THE TOE OF THE SLOPE.

FIRE EXTINGUISHER

1. EACH CLASSROOM SHALL BE EQUIPPED WITH PRESSURE TYPE FIRE EXTINGUISHERS WITH 2A10BC UL RATING. MOUNT ON THE INTERIOR WALL OF THE BUILDING NEAR THE DOORWAY(S) AT A MAXIMUM HEIGHT OF 4 FEET TO THE TOP OF THE OPERATING HANDLE, AND THE BOTTOM OF F.E. MOUNTED 27" OR LESS A.F.F. FIRE EXTINGUISHERS SHALL BE TOTALLY CHARGED AND HAVE A DIAL INDICATING THE STATE OF CHARGE.

ACCESSIBILITY STANDARDS

REFERENCE: 2019 CALIFORNIA BUILDING CODE (TITLE 24, PART 2, CCR), CHAPTER 11B "ACCESSIBILITY TO PUBLIC..."

SECTION 11B-206.2 BUILDING ACCESSIBILITY, GENERAL
1. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ALL BUILDINGS, ELEMENTS, AND AREAS, AND EACH FLOOR INCLUDING MEZZANINES.

SECTION 11B-216 SIGNAGE
(ALSO REFER TO SECTIONS 11B-703, 1009.9, 1009.10, 1023.9)
SIGNAGE IS REQUIRED:
1. TO IDENTIFY PERMANENT ROOMS & SPACES
2. TO PROVIDE DIRECTIONS AND INFORMATION ABOUT SPACES & FACILITIES
3. TO IDENTIFY MEANS OF EGRESS
   - A. AREAS OF REFUGE AND AREA FOR ASSISTED RESCUE (PER 1009.9 AND 1009.11)
   - B. DIRECTIONS TO AN EXIT (PER 1009.10)
   - C. DELAYED EGRESS LOCKS (PER 1010.1.9.7 ITEM 6)
   - D. EXIT WAYS (PER 1013.4)
     - AT EACH GRADE LEVEL EXTERIOR EXIT DOOR
     - AT AN EXIT BY MEANS OF A STAIRWAY OR RAMP ("EXIT STAIR DOWN" OR "EXIT RAMP DOWN")
     - AT AN EXIT ROUTE VIA ENCLOSURE, PASSAGEWAY, CORRIDOR, HALLWAY, ETC.
     - OTHER HORIZONTAL WAYS WHERE THE EXIT OR EXIT PATH IS NOT IMMEDIATELY VISIBLE (PER 1013.1)
4. TO IDENTIFY ACCESSIBLE PARKING SPACES
5. TO IDENTIFY ENTRANCES OR ROUTE TO AN ACCESSIBLE ENTRANCE
6. TO IDENTIFY ELEVATORS
7. TO IDENTIFY TOILET ROOMS
8. TO IDENTIFY PUBLIC TELEPHONES, TTY and ASSISTIVE LISTENING SYSTEMS

SIGNS, WHERE LOCATED WITHIN AN ACCESSIBLE ROUTE, MOUNTED LESS THAN 80" ABOVE THE FINISHED FLOOR, MUST HAVE ROUNDED EDGES OR AN EASED RADIUS MINIMUM OF 0.125".

SECTION 11B-404.2.8 DOOR CLOSING SPEED
1. THE SWEEP PERIOD OF ACCESSIBLE DOORS SHALL BE 5 SECONDS MINIMUM, FROM AN OPEN DOOR POSITION OF 90 DEGREES, TO A DOOR POSITION OF 12° FROM THE LATCH.

SECTION 11B-404.2.9 DOOR OPENING FORCE
1. THE EFFORT TO OPEN ANY DOOR SHALL NOT EXCEED 5LBS, EXCEPT FIRE DOORS, WHICH SHALL NOT EXCEED 15LBS FORCE. THE MINIMUM FORCE NEEDED SHALL BE USED.

SECTIONS 11B-404.2.4.3 RECESSED DOORS
1. DOORS RECESSED 8" OR MORE SHALL HAVE STRIKE EDGE CLEARANCES IN ACCORDANCE WITH FIGURE 11B-404.2.4.3.

SECTION 11B-405.5 RAMP WIDTH
1. THE CLEAR WIDTH OF A RAMP SHALL BE 48" MINIMUM.

SECTION 11B-505 HANDRAILS
1. THE TOP OF THE GRIPPING SURFACE OF HANDRAILS SHALL BE BETWEEN 34" AND 38", MEASURED VERTICALLY FROM WALKING SURFACES AND STAIR NOSINGS.
2. HANDRAILS SHALL HAVE AT LEAST 1-1/2" CLEARANCE ALONG THE SIDE; MAX. 20% OBSTRUCTIONS ON THE BOTTOM (11B-505.6).
3. HANDRAILS SHALL EXTEND BEYOND, AND IN THE SAME DIRECTION, OF STAIRS AND RAMPS.

SECTION 11B-606.4 WATER CONTROLS
1. CONTROLS TO OPERATE A WATER FAUCET OR OUTLET SHALL BE A SINGLE-LEVER DESIGN, CAPABLE OF BEING OPERATED WITH A SINGLE HAND, AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST.
2. THE FORCE REQUIRED TO OPERATE CONTROLS SHALL NOT EXCEED 5 LBS.

SECTION 11B-604 TOILET ROOMS AND BATHING ROOMS
1. AN ACCESSIBLE TOILET STALL SHALL HAVE A MINIMUM WIDTH OF 60" AND SHALL BE EQUIPPED WITH A DOOR THAT HAS AN AUTOMATIC-CLOSING DEVICE, AND SHALL HAVE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32 INCHES WHEN LOCATED AT THE END AND 34 INCHES WHEN LOCATED AT THE SIDE, WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.
2. THE INSIDE AND OUTSIDE OF THE ACCESSIBLE COMPARTMENT DOOR SHALL BE EQUIPPED WITH A LOOP OR U-SHAPED HANDLE IMMEDIATELY BELOW THE LATCH. THE LATCH SHALL BE FLIP-OVER STYLE, SLIDING OR OTHER HARDWARE NOT REQUIRING THE USER TO GRASP OR TWIST. THE LATCH AND PULL SHALL COMPLY WITH 11B-404.2.7. MAXIMUM 5 LB FORCE TO ACTIVATE (11B-309.4).
3. EXCEPT FOR DOOR-OPENING WIDTHS AND DOOR SWINGS, A CLEAR, UNOBSTRUCTED ACCESS OF NOT LESS THAN 44 INCHES SHALL BE PROVIDED TO THE WATER CLOSET COMPARTMENTS DESIGNED FOR USE BY PERSONS WITH DISABILITIES.
4. A 27"-29" MINIMUM DIMENSION IS REQUIRED FOR LAVATORY/SINK KNEE CLEARANCE, WHICH IS THE DISTANCE FROM THE FINISH FLOOR TO THE UNDERSIDE OF THE LAVATORY/SINK AND THE LAV FRONT EDGE.
5. TABLE 11B-604.9 SUGGESTS DIMENSIONS FOR CHILDREN'S USE.
6. TOILET ACCESSORIES LOCATED IN THE CIRCULATION PATH AND WITH THE BOTTOM MOUNTED ABOVE 27" SHALL BE 4" DEEP MAX (11B-307.2).

OUTDOOR VENTILATION REQUIREMENTS:

CLASSROOMS ARE DESIGNED FOR MINIMUM OUTSIDE AIR OF 0.38 CFM PER SF. PER
1. THE CALIFORNIA ENERGY CODE (CEC), SPACES SHALL BE DESIGNED TO THE MINIMUM REQUIREMENTS AS SPECIFIED OR TO 15 CFM PER OCCUPANT, WHICHEVER IS GREATER. THE BUILDING MANUFACTURER SHALL VERIFY WITH THE SCHOOL DISTRICT THE EXPECTED NUMBER OF OCCUPANTS IN THE CLASSROOM SO THAT THE OUTDOOR VENTILATION RATE FOR MECHANICAL SYSTEMS CAN BE ADEQUATELY ADJUSTED UPON SITE INSTALLATION OF THE BUILDING. THE BUILDING MANUFACTURER SHALL ALSO CONFIRM WITH HVAC EQUIPMENT MANUFACTURER THAT THE SELECTED EQUIPMENT WILL BE ABLE TO PERFORM TO ACCOMMODATE THE ADDITIONAL OUTDOOR AIR REQUIREMENTS UNDER PEAK DESIGN CONDITIONS FOR THE CLIMATE ZONE IN WHICH THE BUILDING IS LOCATED. AT OCCUPANCY, THE BUILDING MANUFACTURER SHALL PROVIDE TO BUILDING OWNER A DESCRIPTION OF THE QUANTITIES OF OUTDOOR AND RECIRCULATED AIR THAT THE VENTILATION SYSTEMS ARE DESIGNED TO PROVIDE TO EACH AREA.

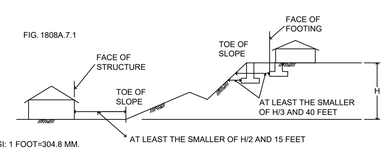


FIG. 1808A.7.1

FOR SI: 1 FOOT=304.8 MM.

LIGHT GAUGE METAL STUDS & COLD FORMED STEEL

1. ALL LIGHT GAUGE METAL STUDS & COLD FORMED STEEL SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF THE AISI S100-16.
2. ALL GALVANIZED STUDS, JOISTS, TRACK, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A653.
3. CUSTOM FORMED SHAPES SHALL BE BENT FROM ASTM A1011 SS STEEL SHEETS.
4. STUD AND TRACK DESIGNATIONS ARE BASED ON STEEL STUD MANUFACTURERS ASSOCIATION. ICC-ES EVALUATION REPORT ESR-3064P.
5. GALVANIZED FRAMING PRODUCTS SHALL BE COATED IN ACCORDANCE WITH AISI S240-15, SECTION A4. PRODUCTS WILL BE FURNISHED WITH A G-60 OR EQUIVALENT COATING IF SPECIFIED, AND SHALL BE IN CONFORMANCE WITH ASTM C-955, OTHERWISE, G-90 OR EQUIVALENT COATING WILL BE PROVIDED.
6. WELDING OF LIGHT GAUGE METAL STUDS & COLD FORMED STEEL SHALL COMPLY WITH AWS D1.3-08.
7. ALL COLD-ROLLED MEMBERS FABRICATED BY AMS SHALL USE HOT-ROLLED SHEETS WITH THE FOLLOWING MIN. SPECIFICATIONS UNLESS NOTED OTHERWISE ON THE DRAWINGS.

GA	MATERIAL	DESIGN THICKNESS	MIN. THICKNESS
20	A1011 SS Gr. 36	0.0346"	0.0329"
18	A1011 SS Gr. 36	0.0451"	0.0428"
16	A1011 SS Gr. 50	0.0566"	0.0538"
14	A1011 SS Gr. 45	0.0713"	0.0677"
12	A1011 SS Gr. 45	0.1017"	0.0966"
10	A1011 SS Gr. 50	0.1345"	0.1278"

METAL FLOOR DECK

1. SECTION PROPERTIES SHALL BE DERIVED IN ACCORDANCE WITH AISI, "SPECIFICATION FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, LATEST EDITION."
2. METAL DECKING IS TO BE ATTACHED TO THE STRUCTURAL FRAME IN CONFORMANCE WITH AWS D1.1 AND D1.3, "SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURES."

METAL FLOOR DECK (CONTINUED)

3. ASTM REFERENCE NUMBERS: ASTM A653, STEEL SHEET, ZINC-COATED (GALVANIZED) OR ZINC-IRON ALLOY-COATED (GALVANEALED) BY THE HOT-DIP PROCESS STRUCTURAL (PHYSICAL) QUALITY.
4. STEEL DECK INSTITUTE (SDI)-METAL FLOOR DECK PROFILES SHALL BE IN CONFORMANCE WITH SDI STANDARDS.
5. METAL FLOOR DECK TO BE ASC STEEL DECK PER IAPMO ER-0329:
   - 1.1. BH-36, 18 GAUGE, 1½" DEEP x 36" WIDE
   - 1.2. 3WxH-36, 18 GAUGE, 3" DEEP x 36" WIDE
6. DECK UNITS ARE TO BE FABRICATED FROM SHEET STEEL CONFORMING TO:
   - 1.1. ASTM A653 SS, F_y=50 KSI WITH A GALVANIZED COATING, G-60 OR G-90.

FASTENERS FOR ATTACHMENT TO STEEL

1. SCREWS FOR STEEL TO STEEL & WOOD TO STEEL CONNECTIONS SHALL BE SELF-DRILLING, SELF-TAPPING SCREWS (SDSTS) PER ASTM C1513, UNO.
   - 1.1 HEAD TYPE AS REQUIRED FOR APPLICATION.
   - 1.2 SCREW LENGTHS TO HAVE 3 EXPOSED THREADS MIN.
   - 1.3 CORROSION PROTECTION: INTERIOR USE SCREWS AND SCREWS THAT ARE PROTECTED FROM THE OUTSIDE ENVIRONMENT SHALL BE ELECTRO-ZINC PLATED MIN. UNO. EXTERIOR USE SCREWS THAT ARE EXPOSED TO THE OUTSIDE ENVIRONMENT SHALL BE ONE OF THE FOLLOWING, UNO:
     - A. ITW BUILDEX TEKS SELF-DRILLING TAPPING SCREWS WITH CLIMASEAL COATING PER ICC ESR-1976.
     - B. HILTI SELF-DRILLING AND SELF-PIERCING TAPPING SCREWS WITH KWIK-COTE COATING PER ICC ESR-2196.
     - C. GRABBER SELF-DRILLING TAPPING SCREWS WITH GRABBERGARD COATING PER ICC ESR-1271.
2. SHOT PINS SPECIFIED FOR PLYWOOD DIAPHRAM TO LIGHT GAUGE STEEL CONNECTIONS SHALL BE ET&F PINS PER IAPMO UES REPORT ER-0335.
3. SHOT PINS FOR ATTACHMENT OF 2X WOOD OR LIGHT GAUGE STEEL MEMBERS TO STRUCTURAL STEEL OR CONCRETE SHALL BE BY HILTI UNO.

ABBREVIATION LEGEND

A	ACCESSIBLE	FOCOL	FACE OF COLUMN		
AC	ASPHALT CONCRETE	FOF	FACE OF FINISH	R	RISER
A/C	AIR CONDITIONING	FOP	FACE OF PLYWOOD	RD	ROOF DRAIN
ACI	AMERICAN CONCRETE INSTITUTE	FOS	FACE OF STUD	RDPRC	REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE
ACOUS	ACOUSTICAL	FRP	FIBERGLASS REINFORCED PLASTIC PANELS		
ADD	ADDENDUM	FT	FOOT	RDWD	REDWOOD
ADD'L	ADDITIONAL	FTG	FOOTING	REF	REFERENCE
ADJ	ADJUSTABLE OR ADJACENT	FURR	FURRED (-ING)	REFR	REFRIGERATOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	GA	GAUGE	REINF	REINFORCING
		GB	GYPSUM BOARD	REQ'D/REQ	REQUIRED
AISI	AMERICAN IRON AND STEEL INSTITUTE	GL	GLASS OR GLAZING	RES	RESILIENT
ALT	ALTERNATE	GLV/GALV	GALVANIZED	RDWD	REDWOOD
ALUM	ALUMINUM	GSM	GALVANIZED SHEET METAL	RWL	RAIN WATER LEADER
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	GYP	GYPSUM		
		GYP.BD.	GYPSUM BOARD	SCH/SCHED	SCHEDULE
APA	AMERICAN PLYWOOD ASSOCIATION			SD	STORM DRAIN
ARCH	ARCHITECT(URAL)	HB	HOSE BIBB	SDSTS	SELF-DRILLING, SELF-TAPPING SCREW
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	HC	HOLLOW CORE	SEC	SECTION
		HDR	HEADER	SEP	SEPARATION
AWC	AMERICAN WOOD COUNCIL	HDW	HARDWOOD	SF	SQUARE FEET
AWPA	AMERICAN WOOD PROTECTION ASSOCIATION	HF	HEM FIR	SHT	SHEET
		HM	HOLLOW METAL (STEEL)	SHTG	SHEATHING
AWS	AMERICAN WELDING SOCIETY	HOR/HORIZ	HORIZONTAL	SIM	SIMILAR
		HSS	HOLLOW STRUCTURAL SECTION (STEEL)	SMS	SHEET METAL SCREW
BD	BOARD	HT	HEIGHT	SOG	SLAB-ON-GRADE
BLDG	BUILDING	HVAC	HEATING VENTILATING AIR CONDITIONING	SP	STRUCTURAL PLYWOOD
BLK	BLOCK	HW	HOT WATER	SPEC	SPECIFICATIONS
BLKG	BL

DOOR SCHEDULE

DOOR NO.	DOOR TYPE	DOOR SIZE	QUANTITY	MATERIAL	FINISH	HARDWARE SET NO.	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	REMARKS
1	D2	3'-0" x 7'-0"	220	HM	PT	A	F1	S	PT	
2	D3	1'-8" x 7'-0"	60	HM	PT	A	F2	S	PT	

DOOR ABBREVIATIONS

HM - HOLLOW METAL
AL - ALUMINUM
S - STEEL
SST - STAINLESS STEEL
STL - STEEL FRAME, 16ga. FULLY WELDED
WWF - WINDOW WALL FRAME
SC - SOLID CORE WOOD
HC - HOLLOW CORE WOOD
PT - PAINTED
CA - CLEAR ANODIZED
BR - BRONZE ANODIZED
CLR - CLEAR FINISH

DOOR NOTES

1. DOORS SHALL COMPLY WITH C.B.C. SECTION 1010.
2. CLASSROOMS > 981 S.F WILL REQUIRE PANIC HARDWARE THAT COMPLIES WITH C.B.C. SECTION 1010.1.10.
3. PER C.B.C. 1010.1.11: PROVIDE LOCKS THAT ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANCY OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INSIDE. LOCKS SHALL COMPLY WITH C.B.C. SECTION 1010.1.9.

WINDOW SCHEDULE

WINDOW TYPE	QTY.	FUNCTION	'W' WIDTH	'H' HEIGHT	FINISH	GLASS TYPE	U FACTOR	SHGC	VT MIN	MIN STC RATING	REMARKS
A	-	FIXED	10'-0" MAX.	8'-0" MAX.	BRONZE ANODIZED	SOLAR GREY[6]	0.780	0.430	0.37	27	INOPERABLE
B	-	FIXED	6'-0" MAX.	6'-0" MAX.	BRONZE ANODIZED	SOLAR GREY[6]	0.780	0.430	0.37	27	INOPERABLE

1. EXTERIOR LITE - 3/16" MINIMUM TEMPERED GLASS, OR LAMINATED AS 1 GLASS OF SOLAR GRAY GLARE REDUCING TYPE WITH A LIGHT TRANSMISSION FACTOR OF 45% MAXIMUM.
2. WINDOWS THAT MEETS ALL OF THE FOLLOWING CONDITIONS SPECIFIED IN SECTION 2406.4.3, SHALL BE CONSIDERED A HAZARDOUS LOCATION:
   A. THE EXPOSED AREA OF AN INDIVIDUAL PANE IS GREATER THAN 9 SQUARE FEET.
   B. THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18" ABOVE FINISH FLOOR.
   C. THE TOP EDGE OF THE GLAZING IS GREATER THAN 36" ABOVE FINISH FLOOR.
   D. ONE OR MORE WALKING SURFACE(S) ARE WITHIN 36", MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, OF THE PLANE OF THE GLAZING.
3. WINDOWS THAT ARE CONSIDERED A HAZARDOUS LOCATION SHALL CONTAIN FULLY TEMPERED SAFETY GLAZING & MEET THE FOLLOWING REQUIREMENTS:
   A. PASS THE IMPACT TEST REQUIREMENTS IN ACCORDANCE WITH "CPSC 16 CFR PART 1201" PER SECTION 2406.2, WITH A TEST CRITERIA OF CATEGORY II, UNLESS OTHERWISE INDICATED IN C.B.C. TABLE 2406.2(1).
   B. IDENTIFICATION OF SAFETY GLAZING PER C.B.C. 2406.3
4. ALL WINDOWS SHALL HAVE METAL FRAMES AND BE MANUFACTURED BY OTHERS.
5. WINDOWS ARE NOT NFRC RATED (UP TO 1,000 SF. OF GLAZING IF ALLOWED TO USE DEFAULT VALUES FROM TABLE 110.6-A & 110.6-B).
6. THE MINIMUM STANDARD GLASS TYPE FOR ALL WINDOWS SHALL SOLAR GREY GLAZING. UPGRADED GLAZING (LOW E, LOW E2, ETC.) MAY BE USED PER SITE SPECIFIC REQUIREMENTS.
7. ALL NFRC RATED FENESTRATION AS NOTED ON THE WINDOW SCHEDULE REQUIRE TEMPORARY NFRC LABELS. TEMPORARY NFRC LABELS SHALL STAY ON FENESTRATION PRODUCTS UNTIL INSPECTOR HAS VERIFIED THAT THE INSTALLED U-FACTOR, SHGC, AND VT MATCH THE WINDOW SCHEDULE.

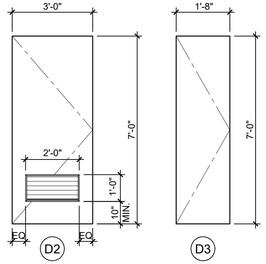
FINISHES

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALLS FRONT	WALLS REAR	WALLS RIGHT	WALLS LEFT	CEILING	CEILING HEIGHT	REMARKS
101 TYP	GIRLS R.R.	B	E	J	J	J	J	H	8'-6"	
103 - 104 TYP	BOYS R.R.	B	E	J	J	J	J	H	8'-6"	
102 - 103 TYP	STAFF ROOM	B	E	J	J	J	J	H	8'-6"	

FINISH INDICATOR OPTIONS

~~A - CARPET; PER STATE OF CALIF SPEC COMPLYING WITH GROUP 1, TYPE A OR TYPE B, CLASS 2, DENSITY 4600.~~
B - VINYL SHEET FLOORING; 0.6 MIN. C.D.F. PER ASTM D 2047
~~C - VCT; ARMSTRONG, STANDARD, OR EXCELON.~~
~~D - TOP SET BASE; 4"~~
E - TOP SET BASE; 6"
~~F - WALL FINISH; 1/2" VINYL TACKBOARD CLASS 1 OVER 1/2" GYP BOARD BACKING~~
~~G - 1/2" W.R. GYP BOARD; TAPE, PAINTED FINISH~~
H - 1/2" GYP BOARD; TAPE, PAINTED FINISH
J - 3/32" F.R.P., OVER 1/2" W.R. GYP BOARD
~~K - ACOUSTICAL LAY-IN GRID CEILING PANELS; 2'x2' OR 2'x4'~~
~~L - 1/2" VINYL TACKBOARD; CLASS 1, OVER 5/8" TYPE "X" GYP BOARD BACKING~~
~~M - 5/8" TYPE 'X' GYP BOARD; TAPE, TEXTURE, PAINTED FINISH~~
~~N - CERAMIC TILE - (FULL HEIGHT AT WALLS)~~
~~O - EXPOSED CONCRETE WITH CONCRETE SEALER~~
~~P - CLOUD CEILING PANELS~~

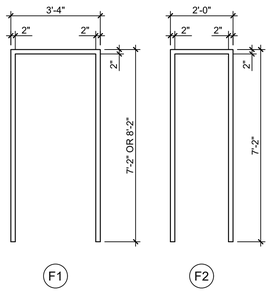
DOOR TYPES



NOT USED

ROOM FINISHES SCHEDULE

DOOR FRAME TYPES



A	EXTERIOR DOOR LOCKSET w/LEVER RHODES SCHLAGE ND95PD
B	~~EXTERIOR DOOR PANIC BAR w/PULL ON EXTERIOR VON DUPRIN AX22NL (REQUIRED WHEN OCCUPANT LOAD IS 50 0R MORE)~~
C	~~INTERIOR PASSAGE COPPER CREEK 6220-PASSAGE w/ADA LEVER~~
D	EXTERIOR DOOR LOCKSET SCHLAGE B561RD w/TRIMCO 1001-3 PUSH PLATE AND 1010-3 PULL PLATE
E	~~INTERIOR ENTRY/OFFICE COPPER CREEK 6241-ENTRY/OFFICE w/ADA LEVER~~
F	~~INTERIOR STOREROOM COPPER CREEK 6250-STOREROOM w/ADA LEVER~~
G	~~INTERIOR CLASSROOM COPPER CREEK 6260-CLASSROOM w/ADA LEVER~~

EXTERIOR DOOR HARDWARE

1. HINGES: HAGER 4-1/2x4-1/2 BUTTS, BB1279 US26D, 1-1/2 PAIR PER DOOR, WITH SET SCREW IN BARREL AND BALL BEARING DESIGN.
2. CLOSER: NORTON 8500DA OR 8500BF SERIES, LCN 1460 DEL SERIES OR EQUAL. (5 LBS. MAX. PRESSURE)
3. WEATHERSTRIPPING: ALL EXTERIOR DOORS SHALL BE WEATHERSTRIPPED WITH PEMKO 299D, ULTRA WS007 OR EQUAL, AT DOOR JAMBS AND HEAD.
4. THRESHOLD: THRESHOLD SHALL BE PEMKO 271 AV 5" ALUMINUM WITH PEMKO 216 AV ULTRA TH042 DOOR BOTTOM.
5. LOCKDOWN: INTERIOR TEACHERS' MANUAL LOCK FOR CAMPUS LOCK DOWN CRITERIA - REQUIRED FOR STATE-FUNDED SCHOOLS, PER EDUCATION CODE SECTION 17075.50 (AND ALSO CBC 1010.1.11): PROVIDE LOCKS THAT ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANCY OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INSIDE. LOCKS SHALL COMPLY WITH C.B.C. SECTION 1010.1.9.

DOOR HARDWARE SCHEDULE

DOOR HARDWARE NOTES

1. OPERABLE PARTS OF DOOR HARDWARE SHALL BE 34" MINIMUM AND 44" MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.
2. HANDLES, PULLS, LATCHES, LOCKS AND OTHERS OPERABLE PARTS ON DOORS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 lbs. MAX. (11B-404.2.7, 11B-309.4)
3. ADDITIONAL DOORS MAY BE REQUIRED BASED ON BUILDING LAYOUT.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
MMM
STOCKPILE
(20) 12'x40' BUILDINGS

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
PATRICK J. LYNCH
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

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

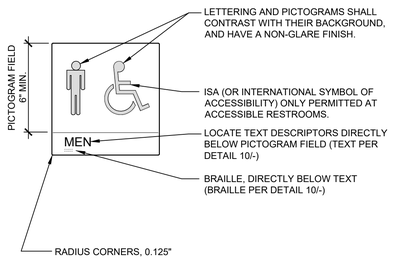
REVISIONS
1
2
3
4

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	04/27/2023
PROJECT NO:	1790-23

SHEET TITLE:
TYPICAL SCHEDULES: DOORS, WINDOWS, & FINISHES

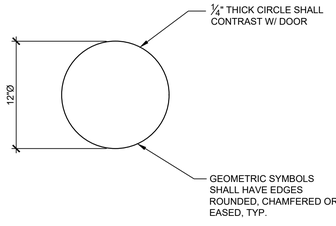
SHEET NUMBER:
N3.0

D:\AXXXX_[plan#]\[SUB]\[PLN]\N-SD\1790-23 N3.dwg, 4/27/2023 8:13:38 AM, Plotted by:[USER], [DRIVER], [PAPER], [SCALE], [PLOTSTYLE], [LAYOUT], [XREF], [PAGESETUP], [PAGEDEVICE], [PLOTCONFIG], [PLOTOFFSET], [PLOTWINDOW], [PLOTTIME], [PLOTSCALE], [PLOTROTATION], [PLOTSTAMP], [PLOTOPTIMIZATION], [PLOTFILE], [PLOTSTYLEPATH], [PLOTSTYLEFILE], [PLOTSTYLEFILEPATH], [PLOTSTYLEFILEPATHFILE], [PLOTSTYLEFILEPATHFILEPATH], [PLOTSTYLEFILEPATHFILEPATHFILE], [PLOTSTYLEFILEPATHFILEPATHFILEPATH]



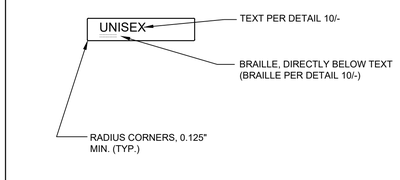
NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
2. LOCATE PER DETAIL 4/-
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

WALL MOUNTED RESTROOM SYMBOLS-MEN
NOT TO SCALE | 1



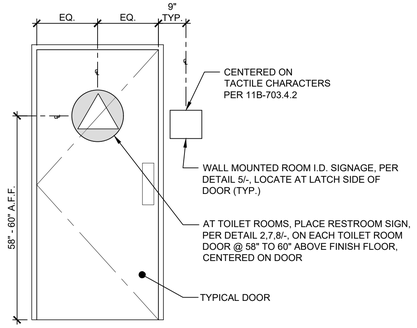
NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH DOOR MATERIAL.
2. LOCATE PER DETAIL 4/-.
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. GEOMETRIC SYMBOLS SHALL COMPLY WITH 11B-703.7.2.6

DOOR MOUNTED RESTROOM SYMBOLS-WOMEN
NOT TO SCALE | 2



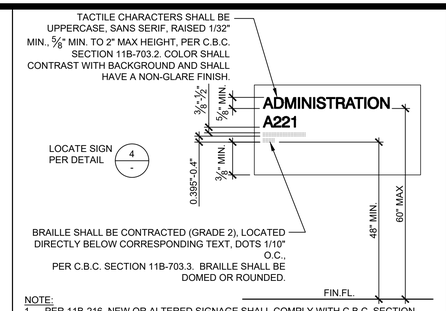
NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
2. LOCATE PER DETAIL 4/-.
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. THE UNISEX WALL-MOUNTED SIGN SHALL HAVE RAISED TEXT, CORRESPONDING BRAILLE, AND NO PICTOGRAM (DSA BU 17-01)

WALL MOUNTED RESTROOM SYMBOLS-UNISEX
NOT TO SCALE | 3



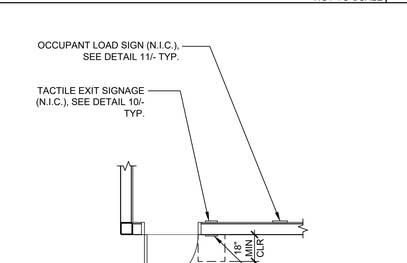
NOTE:
SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

ROOM IDENTIFICATION SIGNAGE
NOT TO SCALE | 4



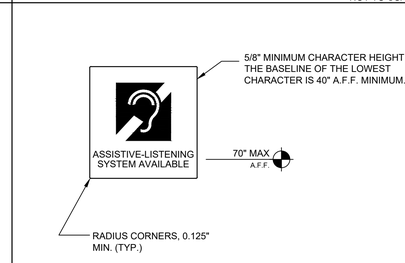
NOTE:
1. PER 11B-216, NEW OR ALTERED SIGNAGE SHALL COMPLY WITH C.B.C. SECTION 11B-703.
2. FOR REQUIRED TACTILE & NON-TACTILE SIGNS LOCATIONS, SEE SHEET N2.0, ACCESSIBILITY STANDARDS, "SECTION 11B-216".
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. ATTACH SIGNS USING ADHESIVE OR MIN (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.

PERMANENT ROOM I.D. SIGNAGE
NOT TO SCALE | 5



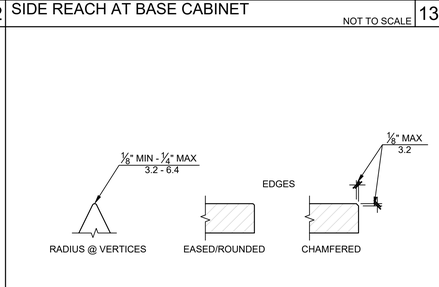
NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TW0 FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
2. LOCATE PER DETAIL 4/-.
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

WALL MOUNTED RESTROOM SYMBOLS-WOMEN
NOT TO SCALE | 6



NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TW0 FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH DOOR MATERIAL.
2. LOCATE PER DETAIL 4/-.
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. GEOMETRIC SYMBOLS SHALL COMPLY WITH 11B-703.7.2.6

DOOR MOUNTED RESTROOM SYMBOL-MEN
NOT TO SCALE | 7

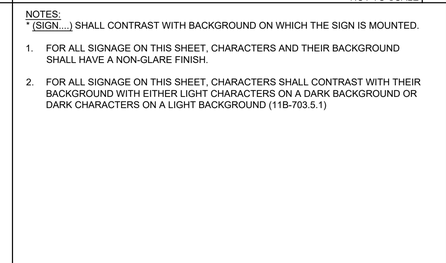


NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
2. LOCATE PER DETAIL 4/-
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. GEOMETRIC SYMBOLS SHALL COMPLY WITH 11B-703.7.2.6
5. UNISEX DOOR SYMBOL SHALL BE PROVIDED WITHOUT TEXT, BRAILLE OR THE USE OF A PICTOGRAM PER DSA BU 17-01

DOOR MOUNTED RESTROOM SYMBOLS-UNISEX
NOT TO SCALE | 8

NOTES:
1. PROVIDE MECHANICAL MOUNTING w/VANDAL RESISTANT FASTENERS. PROVIDE ADHESIVE MOUNTING SYSTEM WHEN ATTACHED TO GLAZING.
2. SYMBOL PER C.B.C. SECTION 11B-703.7.2.1
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

INT'L SYMBOL OF ACCESSIBILITY
NOT TO SCALE | 9



NOTE:
1. PER 11B-216, NEW OR ALTERED SIGNAGE SHALL COMPLY WITH C.B.C. SECTION 11B-703.
2. FOR REQUIRED TACTILE AND NON-TACTILE SIGNS LOCATIONS, SEE SHEET N2.0, ACCESSIBILITY STANDARDS, "SECTION 11B-216".
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. ATTACH SIGNS USING ADHESIVE OR MIN (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.

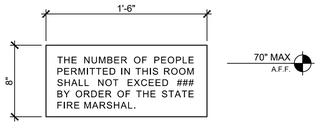
TACTILE SIGNAGE REQUIREMENTS
NOT TO SCALE | 10

A. TYPESTYLE: 1" HIGH BLOCK 1/16" THICK ENGRAVED PLASTIC.

B. MOUNTING: (4) #8x1" SCREWS OR SELF-ADHESIVE. HEIGHT AS SHOWN.

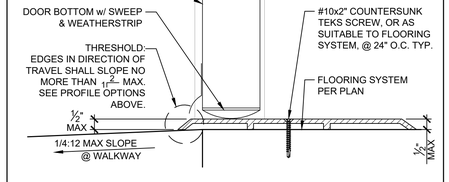
C. CAPACITY POSTING PER C.B.C. SECTION 1004.9 TITLE 19 C.C.R., SECTION 3.30: "THIS ROOM SHALL BE POSTED WITH A DURABLE SIGN NEAR THE MAIN EXIT FROM THE ROOM".

D. THE SIGN SHALL BE WORDED AS FOLLOWS, WITH THE APPROPRIATE CAPACITY NUMBER LISTED:

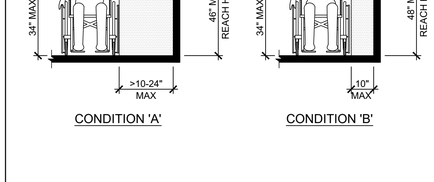


NOTES:
1. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
2. 11B-216.3 SIGNS THAT PROVIDE INFORMATION ABOUT INTERIOR SPACES SHALL COMPLY WITH SECTION 11B-703.5

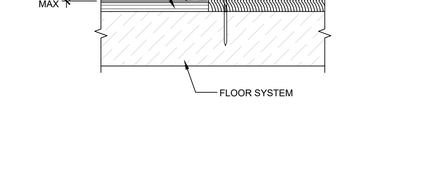
OCCUPANT LOAD SIGN
NOT TO SCALE | 11



THRESHOLD @ EXTERIOR DOOR
NOT TO SCALE | 12



SIDE REACH AT BASE CABINET
NOT TO SCALE | 13



FLOORING TRANSITION DETAIL
NOT TO SCALE | 14

EGRESS SIGNAGE IS REQUIRED:
- TO PROVIDE DIRECTIONS TO AN EXIT (PER C.B.C. 1009.10)
- AT EXIT WAYS (PER C.B.C. 1013.4)
  1. AT EACH GRADE LEVEL EXTERIOR EXIT DOOR
  2. AT AN EXIT BY MEANS OF A RAMP ("EXIT RAMP DOWN")
  3. AT AN EXIT ROUTE VIA ENCLOSURE, PASSAGEWAY, CORRIDOR, HALLWAY, ETC.
  4. OTHER HORIZONTAL WAYS WHERE THE EXIT OR EXIT PATH IS NOT IMMEDIATELY VISIBLE (PER C.B.C. 1013.1)

SIGNAGE PER C.B.C. SECTION 11B-216. (ALSO REFER TO SECTIONS 11B-703, 1009.9, 1009.10, 1023.9)

SIGN REQUIREMENTS PER DETAIL 10 & 16

A. EXIT

B. NOT USED.

C. EXIT STAIR DOWN

D. EXIT ROUTE

E. TO EXIT

NOTE:
1. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

EGRESS SIGNAGE
NOT TO SCALE | 15

NOTE:

18" MIN CLEAR FLOOR SPACE SHALL BE CENTERED ON THE TACTILE CHARACTERS OF THE SIGN PER 11B-703.4.2

TYPICAL CLASSROOM SIGNAGE LOCATION
NOT TO SCALE | 16

NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TW0 FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
2. LOCATE AT OR NEAR THE ENTRANCE IN A PROMINENT PLACE. (11B-216.10)
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. SYMBOL PER CBC SECTION 11B-703.7.2.4
5. THE SIGN SHALL COMPLY WITH 11B-703.5 AND SIGN SHALL BE MOUNTED AT A HEIGHT COMPLYING WITH TABLE 11B-703.5.5.

ASSISTIVE LISTENING SIGN
NOT TO SCALE | 17

FIGURE 11B-703.7.2.6.4
EDGES AND VERTICES ON GEOMETRIC SYMBOLS

EGDES AND VERTICES ON GEMETRIC SYMBOLS
NOT TO SCALE | 18

NOT USED
19

NOTES:
" (SIGN...) SHALL CONTRAST WITH BACKGROUND ON WHICH THE SIGN IS MOUNTED.

1. FOR ALL SIGNAGE ON THIS SHEET, CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH.

2. FOR ALL SIGNAGE ON THIS SHEET, CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND (11B-703.5.1)

NOT USED
20

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

. . .

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — ROBYN PATRICK HIGHT — No. C12631 — Ren. 8-31-23 — STATE OF CALIFORNIA

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

REVISIONS

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

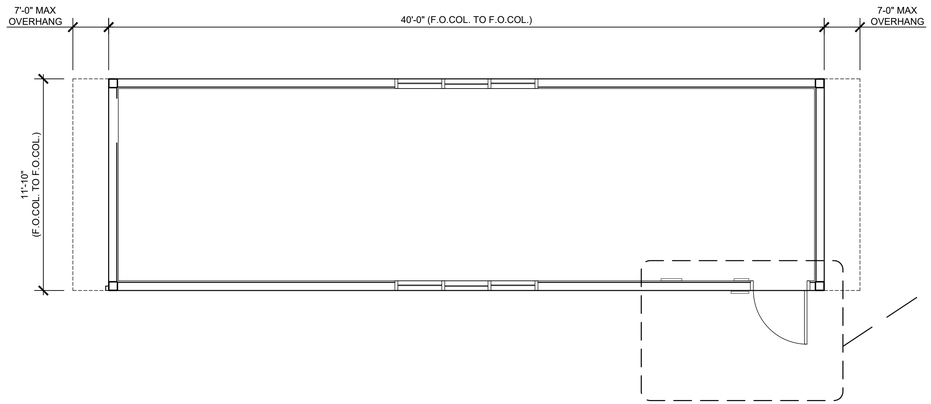
SHEET TITLE:

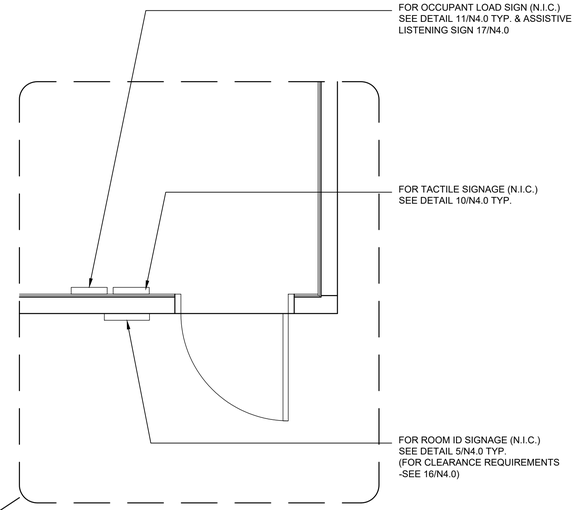
ACCESSIBILITY STANDARDS AND DETAILS

SHEET NUMBER:

N4.0

D:\XXXX_{84c4b4f3b5b2fc3b-5b4c-f0f3-f0f3-2b2f2b2f}\Revit Models\{84c4b4f3-b5b2-fc3b-5b4c-f0f3f0f32b2f}.rvt





1A / N5.0 TYPICAL SIGNAGE

N.T.S.

**TYPICAL FOR ALL BUILDING CONFIGURATIONS*

BUILDING DATA					
BUILDING SIZE	OVERALL SIZE[1]	SQUARE FOOTAGE PER FLOOR*	SQ.FT. ALLOWED PER FLOOR	MAXIMUM OCCUPANT LOAD (LOAD FACTOR: 20)	EGRESS INCHES REQUIRED (0.2 PER OCCUPANT)
12' x 40'	11'-10"	480	9500	24	4.8**
*THE BUILDING SQUARE FOOTAGE IS SUBJECT TO INCREASE AS PERMITTED BY C.B.C. SECTION 506.2 AND 506.3. SEE SHEET NOTE 2. **MINIMUM EGRESS WIDTH SHALL BE 34" , OR DIMENSION GIVEN IN BUILDING DATA, WHICHEVER IS GREATER. ***THIS APPLIES TO E OCCUPANCY, NEED TO CHECK FOR B OCCUPANCY.					

1. SEE GENERAL NOTE #7.

12' x 40' BUILDING FLOOR PLAN — SCALE : 1/4"=1'-0" — 1

NOT USED — 2

NOT USED — 3

1. PANIC HARDWARE IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER, PER CBC 1010.1.10.
2. THE BUILDING SIZES AND SQUARE FOOTAGES REFLECTED ON THIS SHEET ARE SUBJECT TO SQUARE FOOTAGE INCREASE AS PERMITTED BY SITE CONDITIONS, PER CBC 506.2, AND BY AUTOMATIC SPRINKLER SYSTEM, PER CBC 506.3.
3. RESTROOM CONFIGURATIONS OCCUR AT OUTER WINGS OF BUILDINGS.
4. SEE FOUNDATION DRAWINGS FOR TRUE DIMENSIONS AT FLOOR PLACEMENT AND OVERALL FOUNDATION SIZE.
5. FOR ROOM ID SIGNAGE (N.I.C.) SEE DETAIL 5/N4.0. TYPICAL FOR ALL BUILDING CONFIGURATIONS.
6. MINIMUM EGRESS REQUIRED SHALL BE 34" PER CLASSROOM OR DIMENSION SPECIFIED IN BUILDING DATA, WHICHEVER IS GREATER
7. TOTAL WIDTH INCLUDES 1/4" PER MODULE CONSTRUCTION TOLERANCE PER FOUNDATION SHEETS.
8. BUILDING DATA REPORTED ON THIS SHEET IS INTENDED FOR OCCUPANT LOAD AND EGRESS. TOTAL BUILDING SQUARE FOOTAGE WHICH INCLUDES AREA FROM SITE SPECIFIC OVERHANGS OR PROJECTIONS IN NOT INCLUDED.
9. THE CONFIGURATIONS SHOWN ARE OVERALL BUILDING FOOTPRINTS. INTERIOR WALLS/PARTITIONS (IF APPLICABLE) ARE NOT SHOWN FOR CLARITY.

SITE NOTE:

3/16:12 (1%) MINIMUM TO 1/4:12 (2%) MAXIMUM GRADE FROM FACE OF BUILDING MUST BE ADHERED TO FOR WATER RUN-OFF. PONDING MAY OCCUR AROUND THE PERIMETER OF THE BUILDING.

GENERAL NOTES

EGRESS CALCULATIONS

MINIMUM WIDTH REQUIRED FOR EGRESS IS BASED ON
OCCUPANT LOAD x CAPACITY FACTOR. (O.L. X C.F. = MIN. WIDTH)

THE OCCUPANT LOAD IS DETERMINED BY C.B.C. TABLE 1004.5, WHICH INDICATES AN EDUCATIONAL-CLASSROOM FUNCTION SPACE SHALL ALLOW 20 S.F. (NET) PER OCCUPANT.

THE CAPACITY FACTOR IS PROVIDED IN TWO SECTIONS:
- STAIR WAY CAPACITY FACTOR IS 0.3", PER C.B.C. 1005.3.1;
- ALL OTHER EGRESS WAYS CAPACITY FACTOR IS 0.2", PER 1005.3.2.

ALL OTHER EGRESS WIDTH

O.L. X C.F.(0.2) = TOTAL MIN. WIDTH
BUT NOT LESS THAN 32" WIDE (PER C.B.C. 1010.1.1, 11B-404.2.3).

NUMBER OF EXITS

PER C.B.C. TABLE 1006.2.1 & 1006.3.2:

NUMBER OF EXITS REQUIRED	
OCCUPANT LOAD	MINIMUM NUMBER OF EXITS
0-49	1
50-500	2
501-1000	3
1000 +	4

EGRESS REQUIREMENT NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

. . .

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — PATRICK J. LYNCH — No. C12631 — Rem. 3-31-23 — STATE OF CALIFORNIA

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

REVISIONS

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

SHEET TITLE:

FLOOR PLAN CONFIGURATION

SHEET NUMBER:

N5.0

D:\XXXX-20\AMS\DEMO\Revit Models\XXXX-20_AMS_D20220330.rvt 7/8/2022 8:33:03 AM C:\Program Files\Autodesk\Revit 2021\AddIns\DesignAutomation\Autodesk.Revit.DesignAutomation.Extensions.dll 12.0.1.0 2.0.10.4 API:RevitServerAPI.dll 21.0.1.0 Revit 21.0.1.0 (20200423_1515(x64)) 0 0 0

DSA IR N-1

PRE-CHECK DESIGNS CALGREEN/ENERGY CODE COMPLIANCE REVIEW

Attachment 1
AMS PC 12x40 PC

Performance Runs and Orientation Table

PC Design Review Information		Title 24-19, Part 6, Energy Code
Date of Title 24 Report:	7/19/2021	DSA Application:
Model Name and Option:	AMS PC 12x40	DSA File No:
Total Floor Area:	480 sf	DSA-1 Submittal Date:
HVAC System Type:	VSHP	

Climate Zone (Reference City)	Azimuth (Front: Orientation)	TDV - Proposed Design	TDV - Standard Design	Compliance Margin
14 (Palmdale)	30	384.7	532.8	148.2
	75	398.1	568.5	170.4
	120	387.9	546.6	158.7
	165	364.2	479.4	115.2
	210	382.5	519.4	137.0
	255	396.0	551.9	155.9
	300	387.2	534.2	147.1
	345	364.8	493.7	128.8
15 (Palm Springs-Intl)	30	455.5	604.2	148.7
	75	479.8	648.4	168.6
	120	471.9	631.0	159.1
	165	438.4	548.3	109.9
	210	452.6	587.6	135.0
	255	477.9	633.9	156.0
	300	472.0	620.4	148.4
	345	440.0	564.1	124.1
16 (Blue Canyon)	30	425.1	468.6	43.6
	75	433.6	500.3	66.6
	120	431.2	474.7	43.5
	165	419.1	435.7	16.6
	210	423.9	476.0	51.7
	255	432.4	514.6	82.2
	300	430.8	479.2	48.4
	345	419.5	448.0	28.6

Comments to DSA: (Explain why this Model Name and Option generates the smallest compliance margins)

Windows increase heating or cooling load due to orientaton

D:\XXXX_20nd\44b7180b0de28b4d0c8b9c8892b9f2b3\Job\ PW_TITLE\PT\2\20220513\RUN\ PW_TITLE\PT\2\20220513\RUN\ PW_TITLE\PT\2\20220513\RUN

Project Name:	AMS PC 12x40	NRCC-PRF-01-E	Page 12 of 13
Project Address:	Palmdale 93510	Calculation Date/Time:	12:54, Mon, Jul 19, 2021.
Input File Name:	AMS 12x40 for OSA-CZ14[4].cbd19		

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

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

Building Component	Form/Title
Mechanical	NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Envelope Designer Name: Randall P Cavannagh	
Company: American Modular Systems | Gen7 Schools	Signature: Randall Cavanagh
Address: 787 Spreckels Avenue	Date Signed: 07/20/21
City/State/Zip: Manteca CA 95336	
Phone: 209.825.1921	Title: Architect / License #: C12631
Responsible Lighting Designer Name: Randall P Cavanagh	
Company: American Modular Systems | Gen7 Schools	Signature: Randall Cavanagh
Address: 787 Spreckels Avenue	Date Signed: 07/20/21
City/State/Zip: Manteca CA 95336	
Phone: 209.825.1921	Title: Architect / License #: C12631
Responsible Mechanical Designer Name: Randall P Cavanagh	
Company: American Modular Systems | Gen7 Schools	Signature: Randall Cavanagh
Address: 787 Spreckels Avenue	Date Signed: 07/20/21
City/State/Zip: Manteca CA 95336	
Phone: 209.825.1921	Title: Architect / License #: C12631

Project Name:	AMS PC 12x40	NRCC-PRF-01-E	Page 13 of 13
Project Address:	Palmdale 93510	Calculation Date/Time:	12:54, Mon, Jul 19, 2021
Input File Name:	AMS 12x40 for OSA-CZ14[4].cbd19		

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Hans Marsman, CEA, LEED AP BD+C	
Company: Marsman Consulting	Signature: Digitally signed by Hans Marsman
Address: 1150 J Street #409	Signature Date: 2021-07-19
City/State/Zip: San Diego CA 92101	CEA/ HERS Certification Identification (if applicable): LEED AP, CEA Date: 2021.07.19 13:08:00 -00'00'
Phone: (619) 573-6374	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Envelope Designer Name: Randall P Cavannagh	
Company: American Modular Systems | Gen7 Schools	Signature: Randall Cavanagh
Address: 787 Spreckels Avenue	Date Signed: 07/20/21
City/State/Zip: Manteca CA 95336	
Phone: 209.825.1921	Title: Architect / License #: C12631
Responsible Lighting Designer Name: Randall P Cavanagh	
Company: American Modular Systems | Gen7 Schools	Signature: Randall Cavanagh
Address: 787 Spreckels Avenue	Date Signed: 07/20/21
City/State/Zip: Manteca CA 95336	
Phone: 209.825.1921	Title: Architect / License #: C12631
Responsible Mechanical Designer Name: Randall P Cavanagh	
Company: American Modular Systems | Gen7 Schools	Signature: Randall Cavanagh
Address: 787 Spreckels Avenue	Date Signed: 07/20/21
City/State/Zip: Manteca CA 95336	
Phone: 209.825.1921	Title: Architect / License #: C12631

Project Name:	AMS PC 12x40	NRCC-PRF-01-E	Page 1 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	12:56, Mon, Jul 19, 2021.
Input File Name:	AMS 12x40 for OSA-CZ15[4].cbd19		

A. GENERAL INFORMATION

1	Project Location (city)	Palm Springs-Intl	8	Standards Version	Compliance2019
2	CA Zip Code	92240	9	Compliance Software (version)	CBECC-Com 2019.3.1c
3	Climate Zone	15	10	Weather File	PALM-SPRINGS-INTL_722868_CZ2010.epw
4	Total Conditioned Floor Area In Scope	480 ft²	11	Building Orientation (deg)	[5] 165 deg.
5	Total Unconditioned Floor Area	0 ft²	12	Permitted Scope of Work	NewComplete
6	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. PROJECT SUMMARY

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

Building Components Complying via Performance			Building Components Complying Prescriptively		
Envelope (see Table G)	☒ Performance / ☐ Not included	Covered Process: Commercial Kitchens	☐ Performance / ☒ Not included	*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).*	
Mechanical (see Table H)	☒ Performance / ☐ Not Included	Covered Process: Computer Rooms	☐ Performance / ☒ Not Included	Indoor Lighting (Unconditioned)§140.6	NRCC-LTI-E
Domestic Hot Water (see Table I)	☐ Performance / ☒ Not Included	Covered Process: Laboratory Exhaust	☐ Performance / ☒ Not Included	Outdoor Lighting §140.7	NRCC-LTO-E
Lighting (Indoor Conditioned, see Table K)	☒ Performance / ☐ Not Included		Mandatory Measures	Sign Lighting §140.8	NRCC-LTS-E
Solar Thermal Water Heating (see Table I)	☐ Performance / ☒ Not Included			*Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)*	
				Electrical Power Distribution §110.11	NRCC-ELC-E
				Commissioning §120.8	NRCC-CXR-E
				Solar Ready §110.10	NRCC-SRA-E

Project Name:	AMS PC 12x40	NRCC-PRF-01-E	Page 2 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	12:56, Mon, Jul 19, 2021.
Input File Name:	AMS 12x40 for OSA-CZ15[4].cbd19		

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

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	12.05	24.31	-12.26
Space Cooling	261.57	306.80	-45.23
Indoor Fans	219.57	50.98	168.59
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	34.25	34.25	--
Indoor Lighting	20.88	22.09	-1.21
ENERGY STANDARDS COMPLIANCE TOTAL	**548.32**	**438.43**	**109.89 (20.0%)**

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

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

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

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[2]
Receptacle	75.63	75.63	--
Process	--	--	--
Other Ltg	--	--	--
Process Motors	--	--	--
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**623.95**	**514.06**	**109.9 (17.6%)**

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

Project Name:	AMS PC 12x40	NRCC-PRF-01-E	Page 3 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	12:56, Mon, Jul 19, 2021.
Input File Name:	AMS 12x40 for OSA-CZ15[4].cbd19		

C3. ENERGY USE SUMMARY

Energy Component	Standard Design Site (kWh/y)	Proposed Design Site (kWh/y)	Margin (kWh/y)	Standard Design Site (kBtu/y)	Proposed Design Site (kBtu/y)	Margin (kBtu/y)
Space Heating	158	0.5	158	2.8	0.0	2.8
Space Cooling	3,414	4,018	-604	77	91	-14
Indoor Fans	3,616	838	2,778	82	19	63
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	1,127	1,127	0	26	26	0
Indoor Lighting	4,103	4,103	0	93	93	0
Compliance Total	**12,418**	**10,086**	**2,332**	**281**	**229**	**53**
Receptacle	1,333	1,333	0	30	30	0
Process	--	--	--	--	--	--
Other Ltg	--	--	--	--	--	--
Process Motors	--	--	--	--	--	--
TOTAL	**13,751**	**11,419**	**2,332**	**311**	**259**	**53**

D. EXCEPTIONAL CONDITIONS

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

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

Project Name:	AMS PC 12x40	NRCC-PRF-01-E	Page 4 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	12:56, Mon, Jul 19, 2021.
Input File Name:	AMS 12x40 for OSA-CZ15[4].cbd19		

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

Opaque Surfaces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Area (ft²)	Window to Wall Ratio (%)
North-Facing[1]	400 ft²	80 ft²	20.0%
East-Facing[2]	120 ft²	0 ft²	00.0%
South-Facing[3]	400 ft²	80 ft²	20.0%
West-Facing[4]	120 ft²	0 ft²	00.0%
Total	**1,040 ft²**	**160 ft²**	**15.4%**
Roof	480 ft²	8 ft²	01.6%

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

Project Name:	AMS PC 12x40	NRCC-PRF-01-E	Page 5 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	12:56, Mon, Jul 19, 2021.
Input File Name:	AMS 12x40 for OSA-CZ15[4].cbd19		

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

Surface Name	Surface Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value	Units	Value	Description of Assembly Layers	Status[1]
Roof: U=0.070 per EZFrame	Roof	480	Metal	19	2	U-Factor	0.069	Metal Standing Seam - 1/16 in. ; Metal framed roof, 24in. OC, 3.25in., R-19 ; Expanded Polystyrene - EPS - 1/2 in. R2.1 ; Acoustic Tile - 3/8 in.	N
Ext Wall	ExteriorWall	1040	Metal	13	4	U-Factor	0.108	Wood siding - 1/2 in. ; Vapor permeable felt - 1/8 in. ; Compliance Insulation R4.00 ; Metal framed wall, 16in. OC, 3.5in., R-13 ; Gypsum Board - 1/2 in.	N
Floor over Crawlspace	ExteriorFloor	480	NA	0	NA	U-Factor	0.104	Vented Crawl Space ; Concrete - 140 lb/ft3 - 2 in. ; Carpet - 3/4 in.	N

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

G4. OPAQUE DOOR SUMMARY

Assembly Name	Overall U-factor	Status[1]
Door	0.700	N

G5. FENESTRATION ASSEMBLY SUMMARY

Fenestration Assembly Name / Tag or I.D.	Fenestration Type / Product Type / Frame Type	Certification Method[1]	Assembly Method	Area ft²	Overall U-factor	Overall SHGC	Overall VT	Status[2]
Windows	VerticalFenestration FixedWindow MetalFraming	Default Performance	Manufactured	160	0.71	0.60	0.77	N

Project Name:	AMS PC 12x40	NRCC-PRF-01-E	Page 6 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	12:56, Mon, Jul 19, 2021.
Input File Name:	AMS 12x40 for OSA-CZ15[4].cbd19		

G5. FENESTRATION ASSEMBLY SUMMARY

Fenestration Assembly Name / Tag or I.D.	Fenestration Type / Product Type / Frame Type	Certification Method[1]	Assembly Method	Area ft²	Overall U-factor	Overall SHGC	Overall VT	Status[2]
TubularSkylight	Skylight: FixedWindow N/A:	NFRC Rated	Manufactured	8	0.51	0.22	0.80	N

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

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

Equipment Name	Equipment Type	Qty	Heating: Total Heating Output (kBtu/h)	Heating: Supp Heat Output (kBtuh)	Heating: Efficiency Unit	Heating: Efficiency	Cooling: Total Cooling Output (kBtu/h)	Cooling: Efficiency Unit	Cooling: Efficiency	Economizer Type (if present)	Status[1]
FC-1	SPVHP (Packaged1Phase)	1	27	5	COP	3.40	29	EER	11.00	NoEconomizer	N

Status: N - New, A – Altered, E – Existing

H2. FAN SYSTEMS SUMMARY[1]

Name or Item Tag	Supply Fan: System Type	Supply Fan: Design OA	Supply Fan: CFM	Supply Fan: BHP	Supply Fan: Watts	Supply Fan: Control	Return Fan: CFM	Return Fan: BHP	Return Fan: Watts	Return Fan: Control	Economizer Type (if present)	Status[2]
	packaged, DOAS, etc.											
FC-1	SPVHP	182	1053	0.166	136.0	ConstantVolume	NA	NA	NA	NA	NoEconomizer	N

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

H3. EXHAUST FAN SUMMARY

This Section Does Not Apply

Project Name:	AMS PC 12x40	NRCC-PRF-01-E	Page 7 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	12:56, Mon, Jul 19, 2021.
Input File Name:	AMS 12x40 for OSA-CZ15[4].cbd19		

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

This Section Does Not Apply

H5. SYSTEM SPECIAL FEATURES

System Name	Optimum Start	Window Interlocks per §140.4(n)	Evaporative Cooling	Heat Recovery	Other Controls
FC-1	No Optimum Start	No	No Evaporative Cooler	No Heat Recovery	No DCV Controls; No DDC ; No Economizer ; No Supply Air Temp. Control

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

H6. MECHANICAL VENTILATION

Zone Name	Mechanical Ventilation: Ventilation Function	# hotel rooms	# of people	# of bedrooms	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
Zn F1 Classroom	Education - Classrooms (ages 9-18)	0	12.00	0	182	0	480	NA

Multifamily or Hotel/Motel Occupancy? (if "Yes", see DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY)	No
Does the Project include Zonal Systems?	No

H7. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

System ID	Zone Name	System Type	Rated Capacity (kBtuh): Heating	Rated Capacity (kBtuh): Cooling	Airflow (cfm): Design	Airflow (cfm): Min.	Airflow (cfm): Min. Ratio	Fan: BHP	Fan: Watts	Fan: Cycles	ECM Motor
FC-1_TRM	Zn F1 Classroom	Uncontrolled	NA	NA	1053	NA	0.00	NA	NA	NA	☐

Project Name:	AMS PC 12x40	NRCC-PRF-01-E	Page 8 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	12:56, Mon, Jul 19, 2021.
Input File Name:	AMS 12x40 for OSA-CZ15[4].cbd19		

H8. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

Occupancy Type [1]	Conditioned Floor Area [2] (ft²)	Installed Lighting Power [3] (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance: Area Category Footnotes (Watts)	Additional (Custom) Allowance: Tailored Method (Watts)
Classroom, Lecture, Training, Vocational Areas	480	180	0	0	0
Building Totals:	**480**	**180**	**0**	**0**	**0**

[1] See Table 140.6-C
[2] See NRCC-LTI-E0-E for unconditioned spaces
[3] Lighting information for existing spaces modelled is not included in the table

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)

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 Wattage is Determined	Total Number Luminaires	Installed Watts
2x4 LED	2x4 - LED	45	According to §130.0(c)	4	180

Project Name:	AMS PC 12x40	NRCC-PRF-01-E	Page 9 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	12:56, Mon, Jul 19, 2021.
Input File Name:	AMS 12x40 for OSA-CZ15[4].cbd19		

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)

Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaires	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
Classroom 101	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00	2x4 LED	90.0	2	90	0
Classroom 101	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00	2x4 LED	90.0	2	90	0

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS

Building Level Controls

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

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

Area Description	Area Category Primary Function Area	Area Controls 130.1(a)	Multi-Level Controls 130.1(b)	Shut-Off Controls 130.1(c)	Primary Daylighting 130.1(d)	Secondary Daylighting 140.5(d)
Classrooms Daylit Zn	Classroom, Lecture, Training, Vocational Areas	Required	Required	Required	Required	NA

Project Name:	AMS PC 12x40	NRCC-PRF-01-E	Page 10 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	12:56, Mon, Jul 19, 2021.
Input File Name:	AMS 12x40 for OSA-CZ15[4].cbd19		

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings:
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings:
Indoor Lighting	NRCI-LTI-01-E - Must be submitted for all buildings: ; NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS) to be recognized for compliance

ID:XXXX-[ams42x40.EMK]Pln[Pln-SAS-05%]05/07/2021 11:08 PM - http://buildingenergy.com/PRF/PRF.php?id=04162021&ID=XXXX-[ams42x40.EMK]Pln[Pln-SAS-05%]&ts=05/07/2021 11:08 PM - 21.0.0 | 19.1.1 | 19.1.1c | 19.1.1 | 19.1.1 | 19.1.1

Project Name:	AMS PC 12x40	NRCC-PRF-01-E	Page 11 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	12:56, Mon, Jul 19, 2021
Input File Name:	AMS 12x40 for OSA-CZ15[4].cibd19		

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls
	NRCA-LTI-03-A - Automatic Daylight Controls
Mechanical	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: X/CH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD. Acceptance (if applicable) since testing activities overlap
	NRCA-MCH-03-A Constant Volume Single Zone HVAC
	NRCA-MCH-19 Occupancy Sensor Controls

Project Name:	AMS PC 12x40	NRCC-PRF-01-E	Page 12 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	12:56, Mon, Jul 19, 2021
Input File Name:	AMS 12x40 for OSA-CZ15[4].cibd19		

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Table Instructions: Selections shall be made by Documentation Author to 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 at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/

Building Component	Form/Title
Mechanical	NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation

Project Name:	AMS PC 12x40	NRCC-PRF-01-E	Page 13 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	12:56, Mon, Jul 19, 2021
Input File Name:	AMS 12x40 for OSA-CZ15[4].cibd19		

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Hans Marsman, CEA, LEED AP BD+C		
Company: Marsman Consulting	Signature:	Digitally signed by Hans Marsman, LEED AP, CEA Date: 2021-07-19 13:05:42 -07'00'
Address: 1150 J Street #409	Signature Date: 2021-07-19	
City/State/Zip: San Diego CA 92101	CEA/ HERS Certification Identification (if applicable): +	
Phone: (619) 573-6374		

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

Responsible Envelope Designer Name: Randall P Cavannagh	Signature:	
Company: American Modular Systems | Gen7 Schools	Date Signed: 07/20/21	
Address: 787 Spreckels Avenue		
City/State/Zip: Manteca CA 95336		
Phone: 209.825.1921	Title: Architect	License #: C12631
Responsible Lighting Designer Name: Randall P Cavannagh	Signature:	
Company: American Modular Systems | Gen7 Schools	Date Signed: 07/20/21	
Address: 787 Spreckels Avenue		
City/State/Zip: Manteca CA 95336		
Phone: 209.825.1921	Title: Architect	License #: C12631
Responsible Mechanical Designer Name: Randall P Cavannagh	Signature:	
Company: American Modular Systems | Gen7 Schools	Date Signed: 07/20/21	
Address: 787 Spreckels Avenue		
City/State/Zip: Manteca CA 95336		
Phone: 209.825.1921	Title: Architect	License #: C12631

Project Name:	AMS PC 12x40	NRCC-PRF-01-E	Page 1 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	12:58, Mon, Jul 19, 2021
Input File Name:	AMS 12x40 for OSA-CZ16[4].cibd19		

A. GENERAL INFORMATION

1	Project Location (city)	Blue Canyon	8	Standards Version	Compliance2019
2	CA Zip Code:	95715	9	Compliance Software (version)	CBECC-Com 2019.1.3
3	Climate Zone	16	10	Weather File:	BLUE-CANYON_725845_CZ2010.epw
4	Total Conditioned Floor Area in Scope	480 ft²	11	Building Orientation (deg)	(1) 165 deg.
5	Total Unconditioned Floor Area	0 ft²	12	Permitted Scope of Work	NewComplete
6	Total # of Stories (Habitable/ Above Grade)	1	13	Building Type(s)	Nonresidential
7	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. PROJECT SUMMARY

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

Building Components Complying via Performance				Building Components Complying Prescriptively	
Envelope (see Table G)	☒ Performance ☐ Not Included	Covered Process: Commercial Kitchens	☐ Performance ☒ Not included	*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).*	
Mechanical (see Table H)	☒ Performance ☐ Not Included	Covered Process: Computer Rooms	☐ Performance ☒ Not Included	Indoor Lighting (Unconditioned)§140.6	*NRCC-LTI-E*
				Outdoor Lighting §140.7	*NRCC-LTO-E*
Domestic Hot Water (see Table I)	☐ Performance ☒ Not Included	Covered Process: Laboratory Exhaust	☐ Performance ☒ Not Included	Sign Lighting §140.8	*NRCC-LTS-E*
				Mandatory Measures	
Lighting (Indoor Conditioned, see Table K)	☒ Performance			*Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)*	
	☐ Not Included			Electrical Power Distribution §110.11	*NRCC-ELC-E*
Solar Thermal Water Heating (see Table I)	☐ Performance ☒ Not Included			Commissioning §120.8	*NRCC-CXR-E*
				Solar Ready §110.10	*NRCC-SRA-E*

Project Name:	AMS PC 12x40	NRCC-PRF-01-E	Page 2 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	12:58, Mon, Jul 19, 2021
Input File Name:	AMS 12x40 for OSA-CZ16[4].cibd19		

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

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	76.66	261.23	-184.54
Space Cooling	54.84	58.04	-3.20
Indoor Fans	245.15	40.57	204.58
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	37.80	37.80	0.00
Indoor Lighting	21.18	21.47	-0.29
ENERGY STANDARDS COMPLIANCE TOTAL	**435.66**	**419.11**	**16.55 (3.8%)**

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

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

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

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	72.32	72.32	--
Process	--	--	--
Other Ltg	--	--	--
Process Motors	--	--	--
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**507.98**	**491.43**	**16.6 (3.3%)**

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

Project Name:	AMS PC 12x40	NRCC-PRF-01-E	Page 3 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	12:58, Mon, Jul 19, 2021
Input File Name:	AMS 12x40 for OSA-CZ16[4].cibd19		

C3. ENERGY USE SUMMARY

Energy Component	Standard Design Site (kWh/y)	Proposed Design Site (kWh/y)	Margin (kWh/y)	Standard Design Site (MBtu/y)	Proposed Design Site (MBtu/y)	Margin (MBtu/y)
Space Heating	[illegible]	3.9	[illegible]	18.7	[illegible]	[illegible]
Space Cooling	0.9	1.0	-0.1	[illegible]	[illegible]	[illegible]
Indoor Fans	4.0	0.7	3.3	[illegible]	[illegible]	[illegible]
Heat Rejection	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Pumps & Misc.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Domestic Hot Water	[illegible]	[illegible]	[illegible]	10.1	10.1	0.0
Indoor Lighting	0.3	0.4	-0.1	[illegible]	[illegible]	[illegible]
Compliance Total	**5.2**	**6.0**	**-0.8**	**28.8**	**10.1**	**18.7**
Receptacle:	1.3	1.3	0.0	[illegible]	[illegible]	[illegible]
Process	--	--	--	--	--	--
Other Ltg	--	--	--	--	--	--
Process Motors	--	--	--	--	--	--
TOTAL	**6.5**	**7.3**	**-0.8**	**28.8**	**10.1**	**18.7**

D. EXCEPTIONAL CONDITIONS

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

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

Project Name:	AMS PC 12x40	NRCC-PRF-01-E	Page 4 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	12:58, Mon, Jul 19, 2021
Input File Name:	AMS 12x40 for OSA-CZ16[4].cibd19		

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

1 Opaque Surfaces & Orientation	2 Total Gross Surface Area (ft²)	3 Total Fenestration Area (ft²)	4 Window to Wall Ratio (%)
North-Facing[1]	400 ft²	80 ft²	20.0%
East-Facing[2]	120 ft²	0 ft²	00.0%
South-Facing[3]	400 ft²	80 ft²	20.0%
West-Facing[4]	120 ft²	0 ft²	00.0%
Total	1,040 ft²	160 ft²	15.4%
Roof	480 ft²	0 ft²	01.6%

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

Project Name:	AMS PC 12x40	NRCC-PRF-01-E	Page 5 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	12:58, Mon, Jul 19, 2021
Input File Name:	AMS 12x40 for OSA-CZ16[4].cibd19		

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1 Surface Name	2 Surface Type	3 Area (ft²)	4 Framing Type	5 Cavity R-Value	6 Continuous R-Value	7 Units	8 Value	9 Description of Assembly Layers	10 Exterior
Roof: U=0.070 per EZFrame:	Roof	480	Metal	19	2	U-Factor	0.069	Metal Standing Seam - 1/16 in. Metal framed roof, 24in. OC, 7.25in., R-19 Expanded Polystyrene - EPS - 1/2 in. R2.1 Acoustic Tile - 3/8 in.	N
Ext Wall	ExteriorWall	1040	Metal	13	4	U-Factor	0.108	Wood siding - 1/2 in. Vapor permeable felt--1/8 in. Compliance Insulation R4.00 Metal framed wall, 16in. OC, 3.5in., R-13 Gypsum Board - 1/2 in.	N
Floor over Crawlspace	ExteriorFloor	480	NA	0	NA	U-Factor	0.104	Vented Crawl Space Concrete - 140 lb/ft3 - 2 in. Carpet - 3/4 in.	N

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

G4. OPAQUE DOOR SUMMARY

1 Assembly Name	2 Overall U-factor	3 Status[1]
Door	0.700	N

G5. FENESTRATION ASSEMBLY SUMMARY

1 Fenestration Assembly Name / Tag or I.D.	2 Fenestration Type / Product Type / Frame Type	3 Certification Method[1]	4 Assembly Method	5 Area ft²	6 Overall U-factor	7 Overall SHGC	8 Overall VT	9 Exempt
Windows	VerticalFenestration FixedWindow MetalFraming	Default Performance	Manufactured	160	0.71	0.60	0.77	N

Project Name:	AMS PC 12x40	NRCC-PRF-01-E	Page 6 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	12:58, Mon, Jul 19, 2021
Input File Name:	AMS 12x40 for OSA-CZ16[4].cibd19		

G5. FENESTRATION ASSEMBLY SUMMARY

1 Fenestration Assembly Name / Tag or I.D.	2 Fenestration Type / Product Type / Frame Type	3 Certification Method[1]	4 Assembly Method	5 Area ft²	6 Overall U-factor	7 Overall SHGC	8 Overall VT	9 Exempt
TubularSkylight	Skylight FixedWindow N/A	NFRC Rated	Manufactured	8	0.51	0.22	0.80	N

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

1	2	3	4	5	6	7	8	9	10	11	12
			Heating			Cooling					
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Output (kBtuh)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	Exempt
FC-1	SPVHP (Packaged1Phase)	1	22	5	COP	3.30	23	EER	11.30	NoEconomizer	N

Status: N - New, A – Altered, E – Existing

H2. FAN SYSTEMS SUMMARY[1]

1	2	3	4	5	6	7	8	9	10	11	12	13
	System Type	Design OA	Supply Fan				Return Fan					
Name or Item Tag	packaged, DOAS, etc.	CFM	CFM	BHP	Watts	Control	CFM	BHP	Watts	Control	Economizer Type (if present)	Exempt
FC-1	SPVHP	182	818	0.119	97.5	ConstantVolume	NA	NA	NA	NA	NoEconomizer	N

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

H3. EXHAUST FAN SUMMARY

This Section Does Not Apply

Project Name:	AMS PC 12x40	NRCC-PRF-01-E	Page 7 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	12:58, Mon, Jul 19, 2021
Input File Name:	AMS 12x40 for OSA-CZ16[4].cibd19		

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

This Section Does Not Apply

H5. SYSTEM SPECIAL FEATURES

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

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

H6. MECHANICAL VENTILATION

1	2	3	4	5	6	7	8	9
	Mechanical Ventilation							
Zone Name	Ventilation Function	# hotel rooms	# of people	# of bedrooms	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
Zn F1 Classroom	Education - Classrooms (ages 9-18)	0	12.00	0	182	0	480	NA

Multifamily or Hotel/Motel Occupancy? (If "Yes", see DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY)	No
Does the Project include Zonal Systems?	No

H7. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7		8	9	10	11	12
			Rated Capacity (kBtuh)		Airflow (cfm)				Fan			
System ID	Zone Name	System Type	Heating	Cooling	Design	Min.	Min. Ratio		BHP	Watts	Cycles	ECM Motor
FC-1_TRM	Zn F1 Classroom	Uncontrolled	NA	NA	818	NA	0.00		NA	NA	NA	☐

Project Name:	AMS PC 12x40	NRCC-PRF-01-E	Page 8 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	12:58, Mon, Jul 19, 2021
Input File Name:	AMS 12x40 for OSA-CZ16[4].cibd19		

H8. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

1 Occupancy Type[1]	2 Conditioned Floor Area[2] (ft²)	3 Installed Lighting Power[3] (Watts)	4 Lighting Control Credits (Watts)	5 Additional (Custom) Allowance	6
				Area Category Footnotes (Watts)	Tailored Method (Watts)
Classroom, Lecture, Training, Vocational Areas	480	180	0	0	0
Building Totals:	480	180	0	0	0

[1] See Table 140.6-C
[2] See NRCC-LTI-03-E for unconditioned spaces
[3] Lighting information for existing spaces modeled is not included in the table

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)

1	2	Installed Watts (Conditioned)			
		3	4	5	6
Name or Item Tag	Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	How Wattage is Determined	Total Number Luminaires	Installed Watts
2x4 LED	2x4 - LED	45	According to §130.0(c)	4	180

Project Name:	AMS PC 12x40	NRCC-PRF-01-E	Page 9 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	12:58, Mon, Jul 19, 2021
Input File Name:	AMS 12x40 for OSA-CZ16[4].cibd19		

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

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

1 Area Description	2 Primary Function Area (must meet requirements of Table 140.6-A)	3 Type of Lighting Control	4 Power Adjustment Factor (PAF)	5 Luminaire Name or Item Tag	6 Watts per Luminaire	7 # of Luminaires	8 Lighting Controlled (Watts)	9 Control Credit (Watts)
Classroom 101.	Classroom, Lecture, Training, Vocational Areas	NA.	0.00 0.00 0.00 0.00 0.00	2x4 LED.	90.0	2	90	0
Classroom 101.	Classroom, Lecture, Training, Vocational Areas	NA.	0.00 0.00 0.00 0.00 0.00	2x4 LED.	90.0	2	90	0

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS

Building Level Controls

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

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

4 Area Description	5 Area Category Primary Function Area	6 Area Controls 130.1(a)	7 Multi-Level Controls 130.1(b)	8 Shut-Off Controls 130.1(c)	9 Primary Daylighting 130.1(d)	10 Secondary Daylighting 140.5(d)
Classrooms Daylit Zn	Classroom, Lecture, Training, Vocational Areas	Required	Required	Required	Required	NA

ID:XXXX - [illegible]

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
RANDALL PATRICK CAVANNAGH
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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

REVISIONS
1
2
3
4

DRAWN BY: AA
SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-20

SHEET TITLE:
ENERGY CALCULATIONS

SHEET NUMBER:
EN.3

Project Name:	AMS PC 12x40	NRCC-PRF-01-E	Page 10 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	12:58, Mon, Jul 19, 2021.
Input File Name:	AMS 12x40 for OSA-CZ16[4].cibd19		

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-01-E - Must be submitted for all buildings NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS) to be recognized for compliance

Project Name:	AMS PC 12x40	NRCC-PRF-01-E	Page 11 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	12:58, Mon, Jul 19, 2021.
Input File Name:	AMS 12x40 for OSA-CZ16[4].cibd19		

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls NRCA-LTI-03-A - Automatic Daylight Controls
Mechanical	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap NRCA-MCH-03-A Constant Volume Single Zone HVAC NRCA-MCH-19 Occupancy Sensor Controls

Project Name:	AMS PC 12x40	NRCC-PRF-01-E	Page 12 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	12:58, Mon, Jul 19, 2021.
Input File Name:	AMS 12x40 for OSA-CZ16[4].cibd19		

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Table Instructions: Selections shall be made by Documentation Author to 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 at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/

Building Component	Form/Title
Mechanical	NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation

Project Name:	AMS PC 12x40	NRCC-PRF-01-E	Page 13 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	12:58, Mon, Jul 19, 2021.
Input File Name:	AMS 12x40 for OSA-CZ16[4].cibd19		

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Hans Marsman, CEA, LEED AP BD+C	Signature:	Digitally signed by: Hans Marsman, LEED AP, CEA Date: 2021.07.19 13:05:30 -06'00'
Company: Marsman Consulting		
Address: 1150 J Street #409	Signature Date: 2021-07-19	
City/State/Zip: San Diego CA 92101	CEA / HERS Certification Identification (if applicable):	
Phone: (619) 573-4374		

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Envelope Designer Name: Randall P Cavannagh	Signature:		
Company: American Modular Systems | Gen7 Schools			
Address: 787 Spreckels Avenue	Date Signed: 07/20/21		
City/State/Zip: Manteca CA 95336			
Phone: 209.825.1921	Title: Architect	License #: C12631	
Responsible Lighting Designer Name: Randall P Cavannagh	Signature:		
Company: American Modular Systems | Gen7 Schools			
Address: 787 Spreckels Avenue	Date Signed: 07/20/21		
City/State/Zip: Manteca CA 95336			
Phone: 209.825.1921	Title: Architect	License #: C12631	
Responsible Mechanical Designer Name: Randall P Cavannagh	Signature:		
Company: American Modular Systems | Gen7 Schools			
Address: 787 Spreckels Avenue	Date Signed: 07/20/21		
City/State/Zip: Manteca CA 95336			
Phone: 209.825.1921	Title: Architect	License #: C12631	

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.			
Project Name:	AMS 12x40 PC RR Ltg	**Report Page:**	**(Page 1 of 7)**
Project Address:		**Date Prepared:**	2021-07-21T09:59:55-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Palmdale	04	Total Conditioned Floor Area (ft²)	0
02	Climate Zone	14	05	Total Unconditioned Floor Area (ft²)	480
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

☐ Office ☐ Retail ☐ Warehouse ☐ Hotel/Motel ☐ School ☒ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☐ Healthcare ☐ Other (Write In)

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	N/A	0	Area Category Method	480
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)			480	

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
Project Name:	AMS 12x40 PC RR & Ext Ltg	**Report Page:**	**(Page 2 of 7)**
Project Address:		**Date Prepared:**	2021-07-21T09:59:55-04:00

C. COMPLIANCE RESULTS

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

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1	Allowed Lighting Power per §140.6(b) (Watts)						Adjusted Lighting Power per §140.6(a) (Watts)				Compliance Results
	01	02	03	04	05		06	07		08	09
	Complete Building §140.6(c)1	Area Category §140.6(c)2	Area Category Additional §140.6(c)2G (+)	Tailored §140.6(c)3 (+)	Total Allowed (Watts)		Total Designed (Watts)	Adjustments PAF Lighting Control Credits §140.6(a)2 (-)		Total Adjusted (Watts) *includes Adjustments	
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)			
Conditioned					=	≥			=	220	COMPLIES
Unconditioned		287.25			=	287.25	≥ 220		=	220	
05 must be >= 08 §140.6											
Controls Compliance (See Table H for Details)											COMPLIES with Exceptional Conditions
Rated Power Reduction Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS

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

H. Indoor Lighting Controls (Not including PAFs) Permit Applicant Notes	[Restrooms] [Multilevel Controls] EXCEPTION 2: Restrooms -- [Plumb Chase] [Multilevel Controls] Not Required: Space <100 ft² --- [Shut-Off Controls] Electrical equipment room

E. ADDITIONAL REMARKS

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

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
Project Name:	AMS 12x40 PC RR & Ext Ltg	**Report Page:**	**(Page 3 of 7)**
Project Address:		**Date Prepared:**	2021-07-21T09:59:55-04:00

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Unconditioned Spaces

01	02	03	04	05	06	07	08	09	10	
									Field Inspector	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)3	Design Watts	Pass	Fail
2x4 LED	2x4 LED	No	No	45	Mfr. Spec	4	No	180	☐	☐
40W Incandescent	40W Incandescent	No	No	40	Mfr. Spec	1	No	40	☐	☐
							Total Designed Watts: UNCONDITIONED SPACES	220		

[1]FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

[2]Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

*This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls			
01	02	03	
		Field Inspector	
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c)	Pass	Fail
Not Required <= 10,000 SF	See Area/Space Level Controls	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
Project Name:	AMS 12x40 PC RR & Ext Ltg	**Report Page:**	**(Page 4 of 7)**
Project Address:		**Date Prepared:**	2021-07-21T09:59:55-04:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
								Field Inspector	
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Sky lit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Pass	Fail
Restrooms	Restrooms	Manual ON/OFF	Exempt*	Occupancy Sensor	N/A	N/A	No	☐	☐
Plumb Chase	Electrical Mechanical Telephone Room	Manual ON/OFF	Exempt*	Exempt*	N/A	N/A	No	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2

Restrooms	[Multilevel Controls] EXCEPTION 2: Restrooms
Plumb Chase	[Multilevel Controls] Not Required: Space <100 ft² --- [Shut-Off Controls] Electrical equipment room

	13
Plan Sheet Showing Daylit Zones:	

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used .

Unconditioned Spaces

01	02	03	04	05	06	
					Additional Allowance / Adjustment	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Area Category	PAF
Restrooms	Restrooms	0.65	381	247.65	No	No
Plumb Chase	Electrical Mechanical Telephone Room	0.4	99	39.6	No	No
		TOTALS:	480	287.25	See Tables *L* or P for detail	

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
Project Name:	AMS 12x40 PC RR & Ext Ltg	**Report Page:**	**(Page 5 of 7)**
Project Address:		**Date Prepared:**	2021-07-21T09:59:55-04:00

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
Project Name:	AMS 12x40 PC RR & Ext Ltg	**Report Page:**	**(Page 6 of 7)**
Project Address:		**Date Prepared:**	2021-07-21T09:59:55-04:00

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
○	●	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
○	●	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
○	●	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	●	NRCA-LTI-05-A. - Must be submitted for institutional tuning power adjustment factor (PAF)	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
Project Name:	AMS 12x40 PC RR & Ext Ltg	**Report Page:**	**(Page 7 of 7)**
Project Address:		**Date Prepared:**	2021-07-21T09:59:55-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Hans Marsman	Documentation Author Signature:	Digitally signed by: Hans Marsman, LEED AP, CEA Date: 2021.07.21 09:58:30 -06'00'
Company: Marsman Consulting	Signature Date: 2021-07-21	
Address: 1150 J Street #409	CEA / HERS Certification Identification (if applicable):	
City/State/Zip: San Diego, CA 92101	Phone: (619) 573-4374	

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: Randall P Cavannagh	Responsible Designer Signature:		
Company: American Modular Systems | Gen7 Schools	Date Signed: 07/21/2021		
Address: 787 Spreckels Avenue	License: C12631		
City/State/Zip: Manteca, CA 95336	Phone: 209.825.1921		

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
REGINALD PATRICK CAMPION
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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

REVISIONS

1	
2	
3	
4	

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

SHEET TITLE:
ENERGY CALCULATIONS

SHEET NUMBER:
EN.4

ID: XXXXX - 2b4e4c4bf5d8e0dc38c58fc9d3f8d0f2b0f0f0 PRC: 2f2f2f

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

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	AMS 12x40 PC RR & Ext Ltg Report Page:	(Page 1 of 7)
Project Address:	Date Prepared:	2021-07-15T13:37:07-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Palmdale	04	Total Illuminated Hardscape Area (ft²)	0
02	Climate Zone	14			
03	Outdoor Lighting Zone per Title 24 Part 1 §10-114 or as designated by Authority Having Jurisdiction (AHJ):				

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

B. PROJECT SCOPE

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

My Project Consists of:

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

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

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

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

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev.20200601 | Registration Provider: Energy Code Ace Report Generated: 2021-07-15 10:36:55

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

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	AMS 12x40 PC RR & Ext Ltg Report Page:	(Page 2 of 7)
Project Address:	Date Prepared:	2021-07-15T13:37:07-04:00

C. COMPLIANCE RESULTS

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

Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2I.

01		02		03		04		05		06		07		08		09
General Hardscape Allowance §140.7(d)1 (See Table I)	+	Per Application §140.7(d)2 (See Table J)	+	Sales Frontage §140.7(d)3 (See Table K)	+	Ornamental §140.7(d)4 (See Table L)	+	Per Specific Area §140.7(d)5 (See Table M)	OR	Existing Power Allowance §141.0(b)2L (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**	
350	+	19	+	---	+	---	+	---	OR	---	=	369	≥	35		COMPLIES

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

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev.20200601 | Registration Provider: Energy Code Ace Report Generated: 2021-07-15 10:36:55

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

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	AMS 12x40 PC RR & Ext Ltg Report Page:	(Page 3 of 7)
Project Address:	Date Prepared:	2021-07-15T13:37:07-04:00

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

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

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 3]	How is Wattage determined	Total number luminaires[2]	Luminaire Status[3]	Excluded per §140.7(a)	Design Watts	Cutoff Req. > 6,200 initial lumen output §130.2(b)[4]	Field Inspector	
										Pass	Fail
Ext Lfg Fixture @ Door	35W LED	☐ Linear	35	MN-Spec	1	New	☐	35	NA-< 6200 lumens	☐	☐

Total Design Watts: 35

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

[1] FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(b)

[2] For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.

[3] Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.

[4] Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b)

G. CUTOFF REQUIREMENTS (BUG)

This section does not apply to this project.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev.20200601 | Registration Provider: Energy Code Ace Report Generated: 2021-07-15 10:36:55

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

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	AMS 12x40 PC RR & Ext Ltg Report Page:	(Page 4 of 7)
Project Address:	Date Prepared:	2021-07-15T13:37:07-04:00

H. OUTDOOR LIGHTING CONTROLS

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

Mandatory Controls

01	02	03	04	05	
Area Description	Shut-Off §130.2(c)1	Auto-Schedule §130.2(c)2	Motion Sensor §130.2(c)3	Field Inspector	
				Pass	Fail
Entry Door(s): Ext Lfg Fixture @ Door	Astronomical Timer	Yes	Yes	☐	☐

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

I. LIGHTING POWER ALLOWANCE (per §140.7)

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

	☐ General Hardscape Allowance Table I (below)	01 "Use it or lose it" Allowance (select all that apply) (select all that apply)				
		☒ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M	
Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (L2 0, 1 & 4)						
This section does not apply to this project.						
Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (L2 2 & 3)						
This section does not apply to this project.						

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev.20200601 | Registration Provider: Energy Code Ace Report Generated: 2021-07-15 10:36:55

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

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	AMS 12x40 PC RR & Ext Ltg Report Page:	(Page 5 of 7)
Project Address:	Date Prepared:	2021-07-15T13:37:07-04:00

J. LIGHTING ALLOWANCE: PER APPLICATION

This table includes areas using the wattage allowance per application from Table 140.7-B.

01	02	03	04	05	06	07	08	09	10
		CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				
Area Description	Application per Table 140.7-B[1]	# of Locations	Allowance per Location[2]	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
Entry Door(s)	Building Entrance/Exit.	1	19	19	Ext Lfg Fixture @ Door	35	1	35	19
					Total Design Watts for this Area			35	
					Total Allowance (Watts) All Areas:				19

[1] FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.
[2] The Allowance per Location for ATMs is 1000f for the first ATM and 350W for each additional per Table 140.7-B .
[3] For luminaires indicated in Table F as linear, wattage in column 07 is W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev.20200601 | Registration Provider: Energy Code Ace Report Generated: 2021-07-15 10:36:55

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

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	AMS 12x40 PC RR & Ext Ltg Report Page:	(Page 6 of 7)
Project Address:	Date Prepared:	2021-07-15T13:37:07-04:00

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

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

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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

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

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev.20200601 | Registration Provider: Energy Code Ace Report Generated: 2021-07-15 10:36:55

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

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name:	AMS 12x40 PC RR & Ext Ltg Report Page:	(Page 7 of 7)
Project Address:	Date Prepared:	2021-07-15T13:37:07-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Documentation Author Signature:	CEA	Digitally signed by: Hans Marsman, LEED AP, CEA Date: 2021.07.15 11:40:54 -07'00'
Hans Marsman			
Company: Marsman Consulting	Signature Date:		
Address: 1150 J Street #609	CEA/ HERS Certification Identification (if applicable):		
City/State/Zip: San Diego, CA 92101	Phone: (619) 573-6374		

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:	Randall P Cavanaugh	Responsible Designer Signature:	Randall Cavanaugh
Company:	American Modular Systems | GenY Schools	Date Signed:	07/15/2021
Address:	787 Spreckels Avenue	License:	C12631
City/State/Zip:	Manteca, CA 95336	Phone:	209.825.1921

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev.20190401 | Registration Provider: Energy Code Ace Report Generated: 2021-04-22 18:44:31

STATE OF CALIFORNIA
Domestic Water Heating System
NRCC-PLB-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
This document is used to demonstrate compliance for nonresidential occupancies with requirements in §130.1, §110.3, §170.3, and §140.5, and with requirements in §141.0 for additions and alterations; for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in §110.3, §110.5, §120.3, §150.0 and §150.1(c)8, and with requirements §150.2 for additions.		
Project Name:	AMS Rheem WH Report Page:	(Page 1 of 6)
Project Address:	Date Prepared:	2021-04-21T21:44:41-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Palmdale	02	Climate Zone	14
03	Occupancy Types Within Project (select all that apply):				
☒	Nonresidential	☐ High-Rise Residential	☐	Hotel/Motel	
☐	State Building	☐ Healthcare Facility	☐	Other (Write In)	

B. PROJECT SCOPE

This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in §140.5, §150.1(c)8, and §141.0(e) or §141.0(b)2N for additions or alterations. Solar water heating systems are documented on the NRCC-SRA compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.

01	02	03
My project consists of (check all that apply):	System Type[1,2]	System Components
☒ New system (DHW system being installed for the first time in newly constructed building)	Individual System (serving nonresidential spaces)	☒ Equipment ☒ Distribution ☒ Controls
☐ System Alteration (equipment, distribution or controls)		☐ Equipment ☐ Distribution ☐ Controls

[1]FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.
[2] Dwelling units refers to hotel/motel guest rooms and units in a high-rise residential occupancy.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev.20190401 | Registration Provider: Energy Code Ace Report Generated: 2021-04-21T18:44:31

STATE OF CALIFORNIA
Domestic Water Heating System
NRCC-PLB-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name:	AMS Rheem WH Report Page:	(Page 2 of 6)
Project Address:	Date Prepared:	2021-04-21T21:44:41-04:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicated as not compliant for guidance.

01	02	03	04
Domestic Hot Water Equipment	Distribution Systems	Controls	**Compliance Results**
Table F	Table G	Table H	
Yes	Yes	Yes	COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev.20190401 | Registration Provider: Energy Code Ace Report Generated: 2021-04-21T18:44:31

STATE OF CALIFORNIA
Domestic Water Heating System
NRCC-PLB-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name:	AMS Rheem WH Report Page:	(Page 3 of 6)
Project Address:	Date Prepared:	2021-04-21T21:44:41-04:00

F. DOMESTIC HOT WATER EQUIPMENT

This table is used to demonstrate compliance with mandatory equipment requirements in §110.3 and §110.5. For high-rise residential and hotel/motel occupancies, compliance with prescriptive requirements in §150.1(c)8 must also be demonstrated and with §150.2 for addition and alteration scopes.

Equipment Schedule: Individual Systems

01	02	03	04	05	06
Name or Item Tag	Equipment Type	Volume (gal)	Max GPM/ First Hour Rating (FHR)	Rated Uniform Energy Factor (UEF)	Minimum Required Uniform Energy Factor (UEF)[1]
WH-1	Electric Storage	<=30	0 <= FHR <18	0.93	0.8

FOOTNOTE: Compliant equipment may be found in the Modernized Appliance Efficiency Database System (MAEDBS) on the Energy Commission website: https://cacertappliances.energy.ca.gov/Pages/Search/AdvancedSearch.aspx

Water Heating Equipment All Occupancies

	Yes	No	Not Applicable	Requirement
18	☒	☐	☐	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-12. Label required per §110.3(c)3
19	☐	☐	☒	New state buildings 60% of energy for service water heating from site solar energy or recovered energy per §110.3(c)5
20	☐	☒	☐	Isolation valves for instantaneous water heater with input rating <6.8 kBTUH or 2 kW has been specified per §110.3(c)6

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in §120.3 and §140.5. For high-rise residential and hotel/motel occupancies, compliance is demonstrated with requirements §110.3(c), §120.3, §150.0, §150.1

Mandatory Pipe Insulation All Occupancies

12	☐	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per §120.3 : • Recirculating system piping, including supply and return piping of the water heater • The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system • Pipes that are externally heated
13	☒	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per §120.3(b) and §150.0(j)3

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev.20190401 | Registration Provider: Energy Code Ace Report Generated: 2021-04-21T18:44:31

STATE OF CALIFORNIA
Domestic Water Heating System
NRCC-PLB-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name:	AMS Rheem WH Report Page:	(Page 4 of 6)
Project Address:	Date Prepared:	2021-04-21T21:44:41-04:00

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

TABLE 120.3-A PIPE INSULATION THICKNESS

Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft² per °F)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in)		
			< 1	1 to < 1.5	1.5 to < 4
			Minimum Insulation Required		
105-140	0.22 - 0.28	100	1.0 in or R-7.7	1.5 in or R-12.5	1.5 in or R-11

H. DOMESTIC HOT WATER CONTROLS

This table is used to demonstrate compliance with control requirements in §110.3 for all occupancies. For high-rise residential and hotel/motel occupancies, compliance is also demonstrated with requirements in §150.1(c)8.

	Yes	No	Not Applicable	Requirement
01	☒	☐	☐	Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per §110.3(a).
02	☐	☐	☒	Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per §110.3(c)1 unless covered by California Plumbing Code 613.0.
03	☐	☐	☒	Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3(c)2 unless systems seves healthcare facility.
04	☐	☐	☒	For recirculation systems serving multiple dwelling units, design includes automatic pump controls per §150.1(c)8Bii, or §150.2 for additions or alterations.
05	☐	☐	☒	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per §150.1(c)8.
06	☐	☐	☒	For replacement single heat pump water heaters serving individual dwelling units in climate zone 1-15, design includes communication interface that meets demand responsive control requirements of §110.12(a) per §150.2(b)1Hiii.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev.20190401 | Registration Provider: Energy Code Ace Report Generated: 2021-04-21T18:44:31

STATE OF CALIFORNIA
Domestic Water Heating System
NRCC-PLB-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name:	AMS Rheem WH Report Page:	(Page 5 of 6)
Project Address:	Date Prepared:	2021-04-21T21:44:41-04:00

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCI-PLB-01-E - Must be submitted for all buildings	☐	☐
○	●	NRCI-PLB-02-E - Must be submitted for high-rise residential and hotel/motel centril hot water distribution systems to be recognized for compliance.	☐	☐
○	●	NRCI-PLB-03-E - Must be submitted for high-rise residential and hotel/motel single dwelling unit hot water distribution systems to be recognized for compliance.	☐	☐

J.DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to service water heating requirements.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

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

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
○	●	NRCV-PLB-21-H High-rise Residential Central Hot Water Distribution HERS Verification	☐	☐
○	●	NRCV-PLB-22-H High-rise Residential Individual Dwelling Unit Hot Water Distribution HERS Verification	☐	☐

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev.20190401 | Registration Provider: Energy Code Ace Report Generated: 2021-04-21T18:44:31

G5-XXXXX - 2644E4B7B8D0A-SW-SW1RS1B0D1B0V3R0 PRC:7/19/2021 2:03:07 PM | file:///Users/randallcavanaugh/Documents/Projects/2021/2021-07-15 Palmdale/Outdoor Lighting.pdf | 1/1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING
FORM®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT RANDALL PATRICK CAVANAUGH No. C12631 Ren. 3-31-23 STATE OF CALIFORNIA

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

REVISIONS
1
2
3
4

DRAWN BY: AA
SCALE: AS NOTED
DATE: MM/DD/YY
PROJECT NO: XXXX-20

SHEET TITLE:
ENERGY CALCULATIONS

SHEET NUMBER:
EN.5

STATE OF CALIFORNIA
Domestic Water Heating System
NRCC-PLB-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
Project Name:	AMS Rheem WH Report	Report Page: (Page 6 of 6)
Project Address:		Date Prepared: 2021-04-21T21:44:41-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Hans Marsman		Documentation Author Signature:	Digitally signed by Hans Marsman DN: cn=CEA, o=CEA, ou=CEA, email=hans@ceaenergy.com Date: 2021.04.21 18:47:53-07'00'
Company:	Marsman Consulting	Signature Date:	
Address:	1150 J Street #409	CEA/ HERS Certification identification (if applicable):	
City/State/Zip:	San Diego, CA 92101	Phone: (619) 573-6374	

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:	Randall P Cavanmagh	Responsible Designer Signature:	Randall Cavanagh
Company:	American Modular Systems	Date Signed:	07/15/2021
Address:	787 Spreckels Avenue	License:	C12631
City/State/Zip:	Manteca, CA 95336	Phone:	209.825.1921

Registration Number:

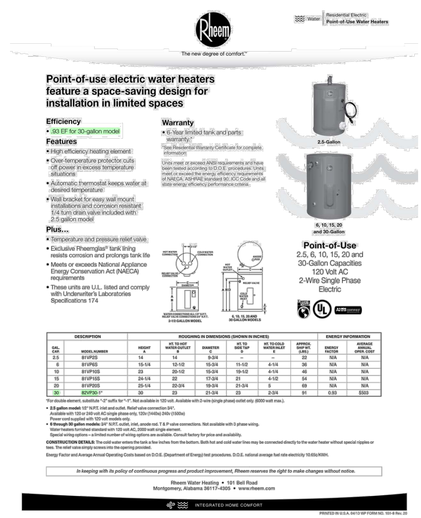
Registration Date/Time:

Registration Provider: Energy Code Ace

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Report Version: 2019.1.003
Schema Version: rev.20190401.

Report Generated: 2021-04-21 18:44:31



DESCRIPTION		ROUGHING-IN DIMENSIONS (SHOWN IN INCHES)					ENERGY INFORMATION	
CAL. NO.	MODEL NUMBER	HEIGHT "H"	HT. TO HOT WATER OUTLET "A"	DIAMETER "B"	HT. TO COLD WATER INLET "C"	HT. TO COLD WATER INLET "D"	APPROX. SHIP WT. (LBS.)	ENERGY FACTOR	AVERAGE ANNUAL ENERGY USED
2.5	RTP2P2S	14	6	9-3/4			28	N/A	N/A
6	RTP6S	15-1/4	12-1/2	10-3/4	11-1/2	4-1/4	38	N/A	N/A
10	RTP10S	22	20-1/2	15-3/4	19-1/2	4-1/4	46	N/A	N/A
15	RTP15S	29-1/4	20	17-3/4	21	4-1/2	54	N/A	N/A
20	RTP20S	29-1/4	20-3/4	19-3/4	21-3/4	5	69	N/A	N/A
30	RTP30-V*	49	20	21-3/4	23	2-3/4	91	0.93	3503

*For double-element, substitute "-2" suffix for "-1". Not available in 120 volt. Available with 3-wire (single-phased) outlet only (6000 watt max.).

- **2.5 gallon models** 10" N.P.T. inlet and outlet. Relief valve connection 3/4".
- **6 gallon models** 3/4" N.P.T. inlet and outlet. Relief valve connection 3/4". 120v (1440w) 240v (1500w). Power cord supplied with 120 volt models only.
- **6 through 30 gallon models** 3/4" N.P.T. outlet, inlet, anode rod, T & P valve connections. Not available with 3 phase wiring. Standard wiring options: 120 volt, 240 volt AC, 2000 watt single element.
- Special wiring options, extended warranties and other options are available. Consult factory for prices and availability.

CONSTRUCTION DETAILS: The cold water enters the tank a few inches from the bottom. Both hot and cold water lines may be connected directly to the water heater without special nipples or ells. The water valve simply screws into the opening provided.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. rational average fuel rate electricity 10.65¢/KWH.

In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice.

Rheem Water Heating • 101 Bell Road
Montgomery, Alabama 36117-4505 • www.rheem.com

INTEGRATED HOME COMFORT

PRINTED IN U.S.A. RHEEM MFG CORP. 800-432-Rev. 05

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E (Created 12/17)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: 2019 12x40 STD PC		Report Page: Page 1 of 3
Project Address: N/A (SITE SPECIFIC)		Date Prepared: 07/20/21

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

Documentation Author Name: JACOB P. JONES		Documentation Author Signature:	
Company:	AMERICAN MODULAR SYSTEM	Signature Date:	07/20/21
Address:	787 SPRECKELS AVE.	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	MANTECA, CA 95336	Phone:	(209) 825-1921

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:	RANDALL P. CAVANAGH	Responsible Designer Signature:	
Company :	AMERICAN MODULAR SYSTEM	Date Signed:	07/20/21
Address:	787 SPRECKELS AVE.	License:	C12631
City/State/Zip:	MANTECA, CA 95336	Phone:	(209) 825-1921


```
PROPOSED FRAMED ENVELOPE ASSEMBLY                    FORM-3R / ENV-3
for Residential & Nonresidential Buildings - EZFRAME  Version 2.0

|Project Name: AMS

COMPONENT DESCRIPTION

                              Assembly Name      : Roof
                              Assembly Type      : Roof
                              Framing Material   : Metal
                              Framing Spacing    :  48"
                              Framing Size
                                    Actual depth :  3.500"
                                    Actual width :  3.000"
                              Cavity Insulation
                                    R-value      : 19.0

                                    Knock-out (%) :  0.0
                                    Web Thickness : 0.1406"
                              Insulation Tape R-value
                                    Interior flange :  1.0
    SKETCH OF ASSEMBLY              Exterior flange :  0.0

CONSTRUCTION COMPONENTS

        Description          R-value  Thickness  Int/Ext   Air/
                                                    Ins      Metal
Exterior Components:
  Outside surface air film     0.17       N/A       N/A      N/A
  1. Steel Siding              0.00      0.06"      NO       YES


Interior Components:
  1. 3/8" Acoustic Tile        0.95      0.38"      NO       NO

  Inside surface air film      0.62       N/A       N/A      N/A

RESULTS FOR: AMS

                Total R-value :  14.27     h.ft2.F/Btu
                Total U-value :  0.070     Btu/h.ft2.F

COMMENTS
```

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E (Created 12/17)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
This document is used to demonstrate compliance with mandatory requirements in §130.5 for electrical systems in newly constructed nonresidential, high-rise residential and hotel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per §141.0(a) or §141.0(b)2F for alterations.		
Project Name: 2019 12x40 STD PC		Report Page: Page 1 of 3
Project Address: N/A (SITE SPECIFIC)		Date Prepared: 07/20/21

A. GENERAL INFORMATION

01 Project Location (city)		02 Occupancy Types Within Project:		
☐ Office	☐ Retail	☐ Warehouse	☐ Hotel/ Motel	☒ School	☐ Support Areas
☐ Parking Garage	☐ High-Rise Residential	☒ Relocatable	☐ Other (Write In):		

B. PROJECT SCOPE

Table Instructions: Include any electrical service systems that are within the scope of the permit application.

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

[1] *FOOTNOTES: Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.*

C. COMPLIANCE RESULTS

Table Instructions: If this table says "DOES NOT COMPLY" refer to Table D, for guidance and review the Table that indicates "No".

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

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E (Created 12/17)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: 2019 12x40 STD.PC-.		Page 2 of 3
Project Address: N/A (SITE SPECIFIC)		Date Prepared: 07/20/21

D. EXCEPTIONAL CONDITIONS

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

No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS

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

F. SERVICE ELECTRICAL METERING

This Section Does Not Apply

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This Section Does Not Apply

H. VOLTAGE DROP

This Section Does Not Apply

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

This Section Does Not Apply

J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at http://www.energy.ca.gov/2016publications/CEC-400-2015-033/appendices/forms/NRCI

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
◉	○	NRCI-ELC-01-E - Must be submitted for all buildings.	☐	☐

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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

April 30, 2020

DSA
Division of the State Architect
5100 Q street
Sacramento, CA 95811

This letter is in regards to the 2019 Energy/CALGreen Code DSA Plan Review, **2019 CBC - AMS PC Submissions.**

American Modular Systems (AMS) shall conform their on-site construction practices to comply with the required construction waste management practices illustrated in the Part 11, Title 24 California Green Building Code (CBC). The intent of this letter is to inform, illustrate, and demonstrate that AMS and its buildings comply to the following applicable code section illustrated below:

2019 California Green Building Code (CGC) – (Part 11, Title 24, CCR)

- ***Section 5.408.1 – Construction Waste Management***
  If the construction waste management takes place in the factory, provide program specifics to CALGreen plan reviewer which identifies:
  1. Percentage of waste to be salvaged or recycled with a minimum of 65% of nonhazardous construction waste.
  2. Procedures for waste management reporting.
  3. Type of waste to be diverted.
  4. If sorted or bulk mixed
  5. If handled by a waste management company or a diversion facility.
  6. If calculated by weight or volume.

AMS shall comply to this section by the following procedure & practice:

1. AMS shall be responsible for the organization and management of construction waste on the factory site, including the responsibility of recycling waste that is a minimum of 65% of non-hazardous construction waste.
2. AMS shall order rental waste & recycling bin(s) from a licensed and authorized waste management company from the City of Manteca, or equivalent in that matter. Upon approval, the bin(s) shall be dropped-off on factory site by hired waste management company. As the bin(s) reach full capacity of construction waste, AMS schedules a pick-up for the bin(s) and is given invoice receipts from the waste management company.
3. AMS shall station the bin(s) whereas needed for AMS plant workers to salvage and/or recycle construction waste during the work day. **Each bin is labeled to help sort the different types of construction waste (e.g. Wood, Scrap Metal, Glass, Leather).**
4. AMS plant workers and management are responsible for **sorting** each bin with the correct types of construction waste listed above.
5. The invoice provided by the **hired waste management company** provides a description of the bin(s) and additional information.
6. Invoice receipts provides calculated **weights** of each bin & pricing of rental usage.

The PC plans and specifications will not reflect and show these procedures for any project. Any questions regarding the construction waste management procedures, please feel free to contact AMS's office.

Thank you,

Randall P. Cavanagh

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

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

REVISIONS

1	
2	
3	
4	

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

SHEET TITLE:

ENERGY CALCULATIONS

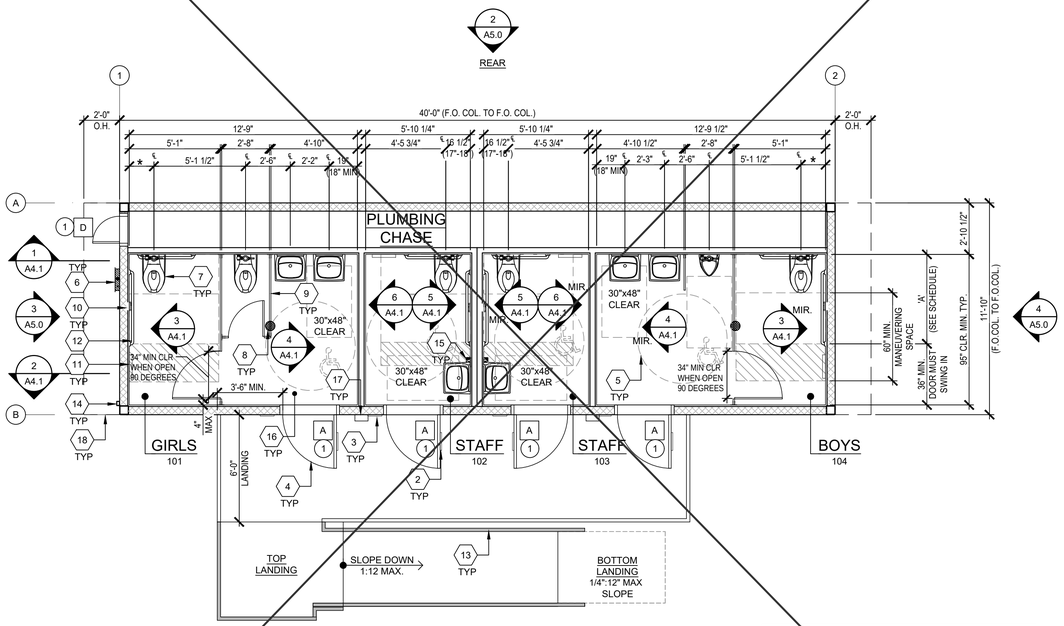
SHEET NUMBER:

EN.6

G:\XXXX-20\ACAD\CAD\Cal\Cal\Sht\EN.6.dwg 7/20/2022 2:01:20 PM Plot By: Randall Cavanagh Plot Scale: 1.000 CTB: Full.ctb Layout: EN.6 Page Setup: ANSI D Full Bleed (24.00 x 36.00 Inches) Xref: $0-XXXX-20-ACAD-CAD-Cal-Cal-Sht-Title.dwg

SERIAL NUMBERS 9-12 AGE GROUPS:
23-100-009
23-100-010

SERIAL NUMBERS ADULT AGE GROUPS:
23-100-006
23-100-007
23-100-011
23-100-012
23-100-013



ACCESSIBLE CLEARANCE FOR WATER CLOSETS			
		WALL MOUNTED	FLOOR MOUNTED
'A'	CHILDREN	59" MIN.	~~59" MIN.~~
	NON-CHILDREN	56" MIN.	~~59" MIN.~~

1. ACCESSIBLE TOILET COMPARTMENT'S SHALL HAVE A MANEUVERING SPACE COMPLYING WITH 2019 CBC SECTION 11B-604.8.1.1.
2. THE TABLE ABOVE IS A LIST OF REQ'D WATER CLOSET CLEARANCE. THE W.C. MANEUVERING SPACE IS LOCATED IN FRONT OF THE W.C. AND IS DESCRIBED IN 11B-604.8.1.1.1, 11B-604.8.1.1.2 AND 11B-604.8.1.1.3 DEPENDING ON IF THE DOOR IS END-OPENING OR SIDE-OPENING AND DIRECTION OF SWING.
3. THE MANEUVERING CLEARANCE FOR ALL ACCESSIBLE TOILET COMPARTMENTS SHOWN IN THESE PLANS SHALL COMPLY WITH 11B-604.8.1.1.1 (IN-SWINGING) & 11B-604.8.1.1.2. (SIDE-OPENING)
4. THE ACCESSIBLE COMPARTMENT DOOR IS NOT PERMITTED TO SWING OVER CLEARANCE SCHEDULED 'A'

NOTES:

(2) 9-12 RESTROOMS & (5) 13-ADUL RESTROOMS.

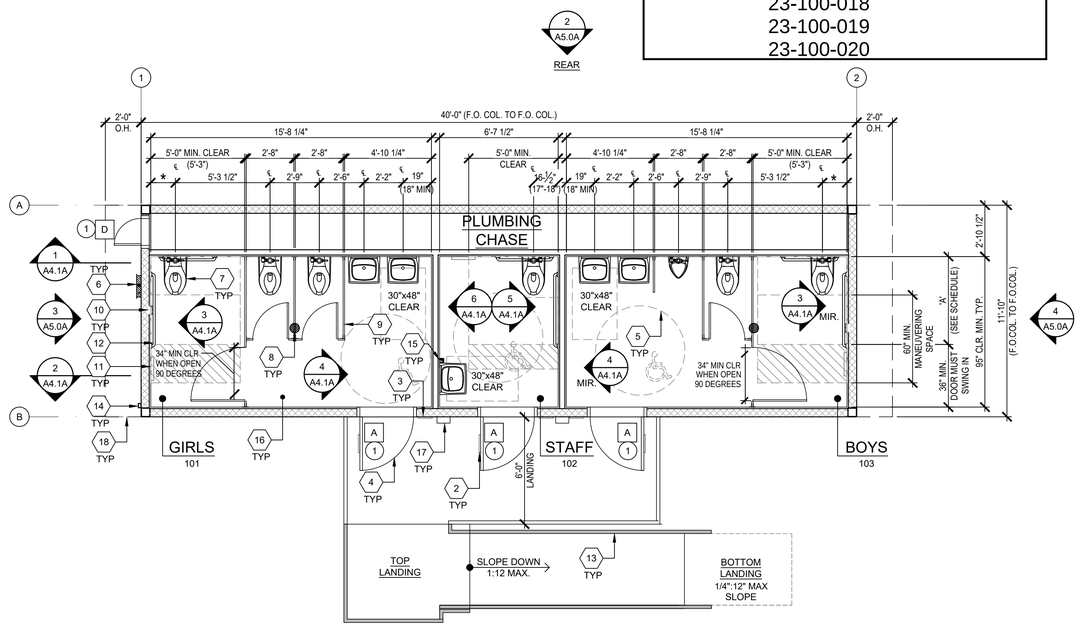
* REFER TO TABLE 10/P2.0 FOR REQUIRED HEIGHTS.

RESTROOM FLOOR PLAN - GIRLS/STAFF/STAFF/BOYS (TOTAL OF 7 BUILDINGS)

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

SERIAL NUMBERS 9-12 AGE GROUPS:
23-100-008

SERIAL NUMBERS ADULT AGE GROUPS:
23-100-003
23-100-004
23-100-005
23-100-014
23-100-015
23-100-016
23-100-017
23-100-018
23-100-019
23-100-020



ACCESSIBLE CLEARANCE FOR WATER CLOSETS			
		WALL MOUNTED	FLOOR MOUNTED
'A'	CHILDREN	59" MIN.	~~59" MIN.~~
	NON-CHILDREN	56" MIN.	~~59" MIN.~~

1. ACCESSIBLE TOILET COMPARTMENT'S SHALL HAVE A MANEUVERING SPACE COMPLYING WITH 2019 CBC SECTION 11B-604.8.1.1.
2. THE TABLE ABOVE IS A LIST OF REQ'D WATER CLOSET CLEARANCE. THE W.C. MANEUVERING SPACE IS LOCATED IN FRONT OF THE W.C. AND IS DESCRIBED IN 11B-604.8.1.1.1, 11B-604.8.1.1.2 AND 11B-604.8.1.1.3 DEPENDING ON IF THE DOOR IS END-OPENING OR SIDE-OPENING AND DIRECTION OF SWING.
3. THE MANEUVERING CLEARANCE FOR ALL ACCESSIBLE TOILET COMPARTMENTS SHOWN IN THESE PLANS SHALL COMPLY WITH 11B-604.8.1.1.1 (IN-SWINGING) & 11B-604.8.1.1.2. (SIDE-OPENING)
4. THE ACCESSIBLE COMPARTMENT DOOR IS NOT PERMITTED TO SWING OVER CLEARANCE SCHEDULED 'A'

NOTES:

(1) 9-12 RESTROOMS & (10) 13-ADUL RESTROOMS.

* REFER TO TABLE 10/P2.0 FOR REQUIRED HEIGHTS.

RESTROOM FLOOR PLAN - GIRLS/STAFF/BOYS (TOTAL OF 11 BUILDINGS)

SCALE : 1/4"=1'-0" | 2

1. RESTROOM CONFIGURATION MAY VARY.
2. RESTROOM MODULE OCCURS AT END OF BUILDING WHEN COMBINED WITH OTHER MODULES. SINGLE RESTROOMS MAY OCCUR IN ANY PART OF A BUILDING.
3. NOT USED.
4. INTERIOR WALLS MAY OCCUR THROUGHOUT BUILDING. REFER TO SHEET S8.1 FOR ATTACHMENTS.
5. REFER TO SCHEDULE 10/P2.0 FOR ACCESSIBLE HEIGHTS AND DIMENSIONS. AGE 13-ADULT IS SHOWN
6. REFER TO DETAILS 1, 3, 4 ~~& 5,~~ SHEET A7.2 FOR TOILET PARTITION ANCHORAGE BLOCKING.
7. PROVIDE FIRE BLOCKING PER DETAIL 5, SHEET M1.5.
8. SEWER AND WATER STUB OUTS SHALL BE LOCATED WITHIN THE ALLOWABLE AREA AS SHOWN ON PLANS AND CONNECTIONS SHALL BE EASILY ACCESSIBLE FOR FUTURE RELOCATION. STUB OUT HEIGHT SHALL BE COORDINATED BY THE MANUFACTURER.
9. PIPING MATERIAL:
   A. WATER: COPPER TYPE "L", 95/5 SOLDER.
   B. WASTE DRAIN AND VENT: ABS.
10. TOILET COMPARTMENT DOORS LOCATED IN THE FRONT PARTITION SHALL BE 4" MAXIMUM FROM THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET, PER C.B.C. SECTION 11B-604.8.1.2.
11. A FIRE EXTINGUISHER MUST BE INSTALLED WITHIN CLOSE PROXIMITY OF BUILDING WHEN SITE LOCATED PER CFC 906.1.

PLUMBING NOTE

MODULAR MFR. TO STUB THROUGH FLOOR ALL PLUMBING LINES - BUILDING PERIMETER POC'S SHOWN ARE FOR COORDINATION PURPOSES ONLY - ALL UNDER-FLOOR CONNECTIONS ARE BY SITE CONTRACTOR UON.

SITE NOTE

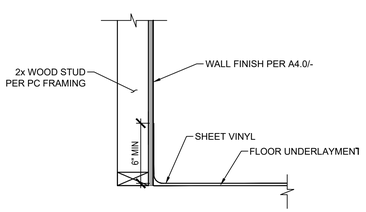
3/16:12 (1%) MINIMUM TO 1/4:12 (2%) MAXIMUM GRADE FROM FACE OF BUILDING MUST BE ADHERED TO FOR WATER RUN-OFF. PONDING MAY OCCUR AROUND THE PERIMETER OF THE BUILDING.

SHEET NOTES

1. NOT USED
2. DOOR SIGNAGE PER 2, 7 OR 8/N4.0 (BY OWNER)
3. RESTROOM I.D. SIGNAGE (BY OTHERS) PER DETAILS 1,3 OR 6, SHEET N4.0
4. TYPICAL DOOR PER SCHEDULE ON SHEET N3.0.
5. 60" CLEAR TURNING SPACE
6. ELECTRICAL PANEL
7. PLUMBING FIXTURE PER P1.0
8. FLOOR DRAIN (LOCATION MAY VARY) - PER P1.0. 1:48 FLOOR SLOPE MAX
9. TOILET PARTITIONS (ACCURATE, SOLID PLASTIC, OR EQUAL) PER P2.0
10. TOILET TISSUE DISPENSER (BRADLEY MODEL 508-32, OR EQUAL) PER P2.0
11. TOILET SEAT COVER DISPENSER (BOBRICK MODEL B-221, OR EQUAL) PER P2.0
12. GRAB BARS - SEE 6/A7.1
13. TYPICAL RAMP REFER TO DETAIL 5/-.
14. DOWNSPOUT - DISCHARGE TO SPLASH BLOCK (U.N.O.)
15. INSTA-HOT WATER HEATER
16. SHEET VINYL FLOORING w/6" SELF COVE BASE
17. EXTERIOR LIGHT - SEE ELECTRICAL SHEETS
18. OVERHANG

KEYNOTES

3



PROTETCTION OF WOOD WALLS @ TOILET RM

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

= KEY NOTE - SEE KEY NOTES, THIS SHEET

= DOOR TYPE - SEE SCHEDULE SHEET N3.0

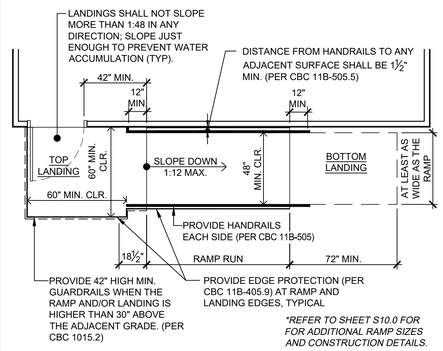
= DOOR HARDWARE - SEE HARDWARE SCHEDULE SHEET N3.0

= WINDOW TYPE - SEE SCHEDULE SHEET N3.0

= 60" DIAMETER CLEAR FLOOR TURNING SPACE

= 30"x48" CLEAR FLOOR SPACE

SYMBOLS LEGEND



**REFER TO SHEET S10.0 FOR FOR ADDITIONAL RAMP SIZES AND CONSTRUCTION DETAILS.*

TYPICAL RAMP PLAN

SCALE: 1/4" = 1'-0" | 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
MMM
STOCKPILE
(20) 12'x40' BUILDINGS

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT PATRICK J. KENNEDY No. C12631 Ren. 3-31-25 STATE OF CALIFORNIA

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

REVISIONS
1
2
3
4

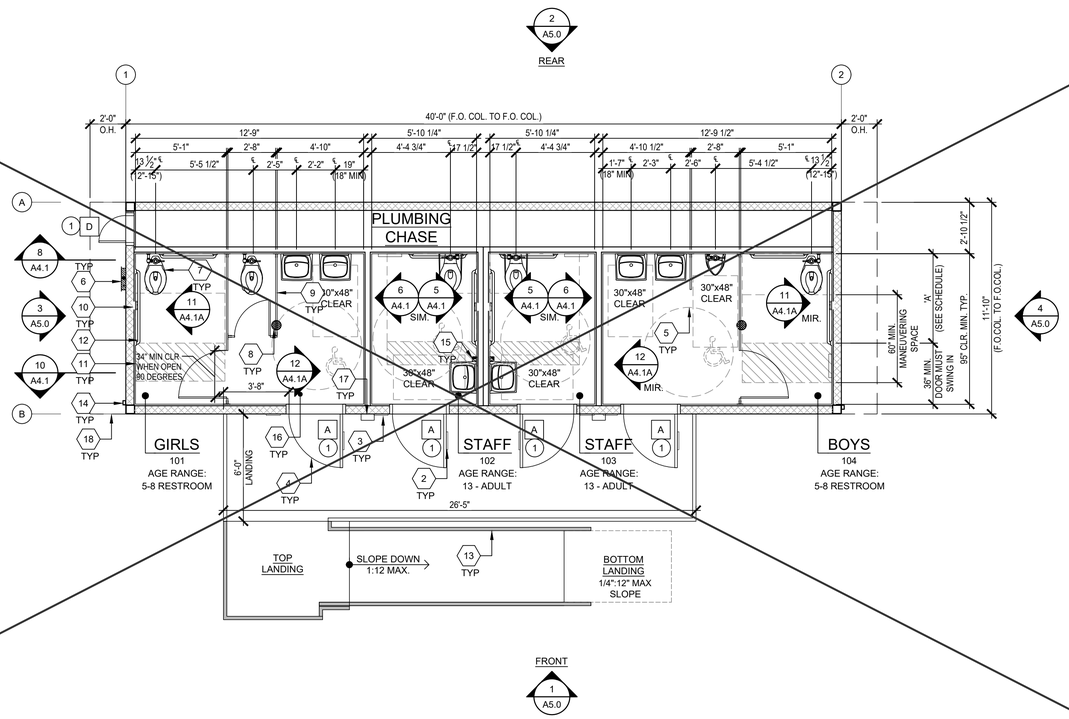
DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	05/02/2023
PROJECT NO:	1790-23

SHEET TITLE:
RESTROOM FLOOR PLAN

SHEET NUMBER:
A1.2

DO NOT SCALE DRAWINGS - Job data 05/30/2023 4:00:00 PM - Plotted 05/31/2023 8:00:00 AM by PM - \\Myfiles\pw\data\Active Projects\1790-23 MMM STOCKPILE (20) 12'x40' BUILDINGS\Working Drawings\A1.2 - 05/30/2023 4:00:00 PM - A1.2 by PM on Revit Server\Plotted\A1.2.pdf

SERIAL NUMBERS 5-8 AGE GROUPS:
23-100-001
23-100-002



ACCESSIBLE CLEARANCE FOR WATER CLOSETS			
		WALL MOUNTED	FLOOR MOUNTED
'A'	CHILDREN	59" MIN.	~~59" MIN.~~
	~~NON-CHILDREN~~	~~56" MIN.~~	~~59" MIN.~~

1. ACCESSIBLE TOILET COMPARTMENT'S SHALL HAVE A MANEUVERING SPACE COMPLYING WITH 2019 CBC SECTION 11B-604.8.1.1.
2. THE TABLE ABOVE IS A LIST OF REQ'D WATER CLOSET CLEARANCE. THE W.C. MANEUVERING SPACE IS LOCATED IN FRONT OF THE W.C. AND IS DESCRIBED IN 11B-604.8.1.1.1, 11B-604.8.1.1.2 AND 11B-604.8.1.1.3 DEPENDING ON IF THE DOOR IS END-OPENING OR SIDE-OPENING AND DIRECTION OF SWING.
3. THE MANEUVERING CLEARANCE FOR ALL ACCESSIBLE TOILET COMPARTMENTS SHOWN IN THESE PLANS SHALL COMPLY WITH 11B-604.8.1.1.1 (IN-SWINGING) & 11B-604.8.1.1.2. (SIDE-OPENING)
4. THE ACCESSIBLE COMPARTMENT DOOR IS NOT PERMITTED TO SWING OVER CLEARANCE SCHEDULED 'A'

NOTES:

(2) 5-8 RESTROOMS.

* REFER TO TABLE 10/P2.0 FOR REQUIRED HEIGHTS.

RESTROOM FLOOR PLAN - GIRLS/STAFF/STAFF/BOYS (TOTAL OF 2 BUILDINGS)

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

1. RESTROOM CONFIGURATION MAY VARY.
2. RESTROOM MODULE OCCURS AT END OF BUILDING WHEN COMBINED WITH OTHER MODULES. SINGLE RESTROOMS MAY OCCUR IN ANY PART OF A BUILDING.
3. NOT USED.
4. INTERIOR WALLS MAY OCCUR THROUGHOUT BUILDING. REFER TO SHEET S8.1 FOR ATTACHMENTS.
5. REFER TO SCHEDULE 10/P2.0 FOR ACCESSIBLE HEIGHTS AND DIMENSIONS. AGE 13-ADULT IS SHOWN
6. REFER TO DETAILS 1, 3, 4 & 5, SHEET A7.2 FOR TOILET PARTITION ANCHORAGE BLOCKING.
7. PROVIDE FIRE BLOCKING PER DETAIL 5, SHEET M1.5.
8. SEWER AND WATER STUB OUTS SHALL BE LOCATED WITHIN THE ALLOWABLE AREA AS SHOWN ON PLANS AND CONNECTIONS SHALL BE EASILY ACCESSIBLE FOR FUTURE RELOCATION. STUB OUT HEIGHT SHALL BE COORDINATED BY THE MANUFACTURER.
9. PIPING MATERIAL:
   A. WATER: COPPER TYPE "L", 95/5 SOLDER.
   B. WASTE DRAIN AND VENT: ABS.
10. TOILET COMPARTMENT DOORS LOCATED IN THE FRONT PARTITION SHALL BE 4" MAXIMUM FROM THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET, PER C.B.C. SECTION 11B-604.8.1.2.
11. A FIRE EXTINGUISHER MUST BE INSTALLED WITHIN CLOSE PROXIMITY OF BUILDING WHEN SITE LOCATED PER CFC 906.1.

PLUMBING NOTE

MODULAR MFR. TO STUB THROUGH FLOOR ALL PLUMBING LINES - BUILDING PERIMETER POC'S SHOWN ARE FOR COORDINATION PURPOSES ONLY - ALL UNDER-FLOOR CONNECTIONS ARE BY SITE CONTRACTOR UON.

SITE NOTE

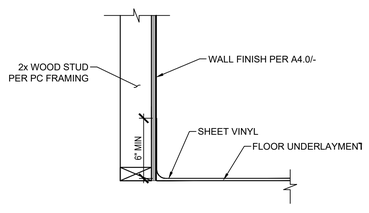
3/16:12 (1%) MINIMUM TO 1/4:12 (2%) MAXIMUM GRADE FROM FACE OF BUILDING MUST BE ADHERED TO FOR WATER RUN-OFF. PONDING MAY OCCUR AROUND THE PERIMETER OF THE BUILDING.

SHEET NOTES

1. NOT USED
2. DOOR SIGNAGE PER 2, 7 OR 8/N4.0 (BY OWNER)
3. RESTROOM I.D. SIGNAGE (BY OTHERS) PER DETAILS 1,3 OR 6, SHEET N4.0
4. TYPICAL DOOR PER SCHEDULE ON SHEET N3.0.
5. 60" CLEAR TURNING SPACE
6. ELECTRICAL PANEL
7. PLUMBING FIXTURE PER P1.0
8. FLOOR DRAIN (LOCATION MAY VARY) - PER P1.0. 1:48 FLOOR SLOPE MAX
9. TOILET PARTITIONS (ACCURATE, SOLID PLASTIC, OR EQUAL) PER P2.0
10. TOILET TISSUE DISPENSER (BRADLEY MODEL 508-32, OR EQUAL) PER P2.0
11. TOILET SEAT COVER DISPENSER (BOBRICK MODEL B-221, OR EQUAL) PER P2.0
12. GRAB BARS - SEE 6/A7.1
13. TYPICAL RAMP REFER TO DETAIL 5/-.
14. DOWNSPOUT - DISCHARGE TO SPLASH BLOCK (U.N.O.)
15. INSTA-HOT WATER HEATER
16. SHEET VINYL FLOORING w/6" SELF COVE BASE
17. EXTERIOR LIGHT - SEE ELECTRICAL SHEETS
18. OVERHANG

KEYNOTES

3

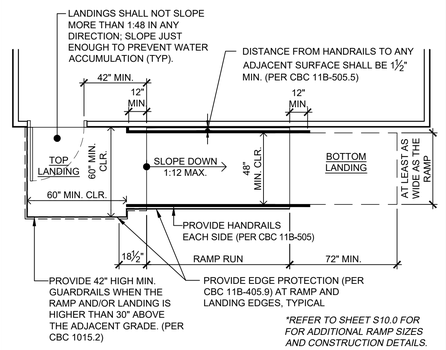


PROTETCTION OF WOOD WALLS @ TOILET RM

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

- 1 = KEY NOTE - SEE KEY NOTES, THIS SHEET
- X = DOOR TYPE - SEE SCHEDULE SHEET N3.0
- X = DOOR HARDWARE - SEE HARDWARE SCHEDULE SHEET N3.0
- X = WINDOW TYPE - SEE SCHEDULE SHEET N3.0
- = 60" DIAMETER CLEAR FLOOR TURNING SPACE
- = 30"x48" CLEAR FLOOR SPACE

SYMBOLS LEGEND



**REFER TO SHEET S10.0 FOR FOR ADDITIONAL RAMP SIZES AND CONSTRUCTION DETAILS.*

TYPICAL RAMP PLAN

SCALE: 1/4" = 1'-0" | 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

MMM
STOCKPILE
(20) 12'x40' BUILDINGS

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — JOSEPH PATRICK CONNELL — No. C12631 Ren. 3-31-25 — STATE OF CALIFORNIA

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

REVISIONS

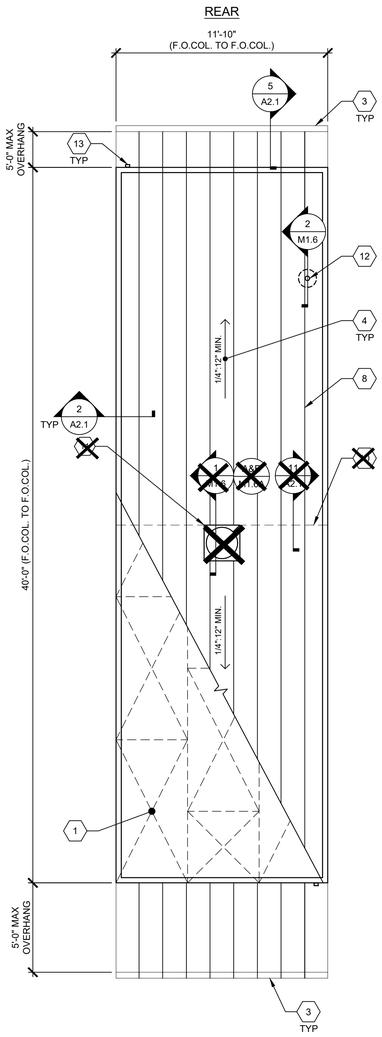
DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	05/02/2023
PROJECT NO:	1790-23

SHEET TITLE:

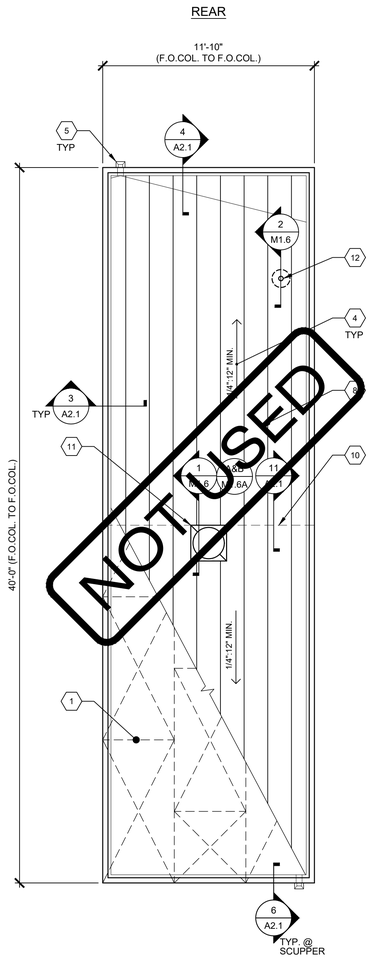
RESTROOM FLOOR PLAN

SHEET NUMBER:

A1.2A



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



NOT USED

ROOF PLAN WITH PARAPETS — SCALE: 1/4" = 1'-0" — 2

ROOF AREA DRAINS (WITH 7'+7' OVERHANG)			
BUILDING SIZE (NOM.)	ROOF AREA	MINIMUM NO. OF DRAINS	SIZE OF DRAIN
☒ 12'x40'	648	1	2x3

NOTES:

1. DOWNSPOUTS & LEADERS PER C.P.C. 1106.1 AND TABLE 1101.11.
2. PC DOWNSPOUT SIZING BASED ON ROOF AREA AND MAX RAINFALL RATE OF 3" PER HOUR. SITE SPECIFIC BUILDING MAY UTILIZE LOCAL RAINFALL RATE--PROVIDE SITE RAINFALL RATE TO DETERMINE MINIMUM NUMBER OF DRAINS REQUIRED.

ROOF DRAIN SCHEDULE

NOT USED

NOT USED — 3

NOT USED — 4

1. ROOF SHEATHING PER SHEET ~~S4.1 OR~~ STEEL STRAP CROSS BRACING PER S4.0
2. NOT USED
3. OPTIONAL GUTTER PER DETAIL 5/A2.1
4. TYPICAL ROOF SLOPE
5. OPTIONAL SCUPPER (LOCATION MAY VARY) PER 13/A2.1 - SEE ROOF DRAIN SCHEDULE FOR MIN. # OF DRAINS
6. NOT USED
7. NOT USED
8. STANDING SEAM METAL ROOF OPTION, SEE DETAILS ON A2.1
9. NOT USED
10. ~~RIDGE @ DUAL SLOPE OPTION~~
11. ~~OPTIONAL SOLATUBE - SEE SHEET NOTE #1~~
12. PIPE VENT PER PLUMBING PLANS & 2/M1.6
13. OPTIONAL DOWNSPOUT - SEE ROOF DRAIN SCHEDULE BELOW

KEY NOTES

1. SOLATUBE LOCATIONS SHOWN ON PLAN ARE GENERIC AND ACTUAL LOCATIONS MAY VARY - (4) MAX. PER MOD. FRAMING PER S4.0 & S4.1 INSTALLATION PER DETAILS 1 OR 15/M1.6
2. OPTIONAL GUTTERS SHALL BE LOCATED ALONG THE END-WALLS OF THE BUILDING(S):
   - MONO-SLOPE: REAR END WALLS ONLY.
   - DUAL-PITCH: BOTH FRONT & REAR END WALLS.
3. EITHER ROOF-SHEATHING OR STRAP CROSS BRACING MAY BE USED FOR MONO-SLOPE OR DUAL PITCH SLOPED BUILDING(S).

SHEET NOTES

SOLAR ZONE REQUIRED, PER TITLE 24 SECTION 110.10: FOR NON-RESIDENTIAL BUILDINGS, 3 STORIES OR LESS, A MINIMUM OF 15% OF ROOF AREA (EXCLUDING SKYLIGHTS) MUST BE SET ASIDE FOR PHOTO-VOLTAICS (PV). THE ROOF MUST HAVE NO ROOF OBSTRUCTIONS.

1. THE PC ROOF FRAMING HAS BEEN DESIGNED PER THE DESIGN LOADS SPECIFIED ON SHEET TS, WHICH DOES INCLUDE LOADS FROM SOLAR EQUIPMENT THAT MIGHT BE INSTALLED AT A LATER DATE AS LONG AS THE SOLAR PANELS ARE INSTALLED FLAT ON THE ROOF.
2. NOT USED
3. EQUIPMENT SUCH AS SOLAR MODULES, INVERTERS, AND METERING EQUIPMENT DO NOT NEED TO BE INSTALLED, NOR DOES CONDUIT, PIPING, OR PRE-INSTALLED MOUNTING HARDWARE.
4. A STRUCTURAL ENGINEER SHOULD BE CONSULTED PRIOR TO ANY FUTURE ROOF-TOP SOLAR INSTALLATIONS TO DETERMINE THE ADEQUACY OF THE ROOF FRAMING TO SUSTAIN THE LOADS OF THE INSTALLATION ON THE BUILDING STRUCTURE.
5. A NON-PC DSA APPLICATION NUMBER (SITE SPECIFIC JOB) IS REQUIRED FOR DESIGN & ROOF-TOP INSTALLATION OF SOLAR PANEL SYSTEMS, ITS ANCHORAGE & SUPPORT STRUCTURE ABOVE THE ROOF FRAMING. ROOF-TOP SOLAR SYSTEM SUBMITTALS SHALL NOT BE SUBMITTED AS AN OVER-THE-COUNTER SUBMITTAL.

SOLAR NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

. . .

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
REGINALD PATRICK CONNOLLY
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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

REVISIONS

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

SHEET TITLE:

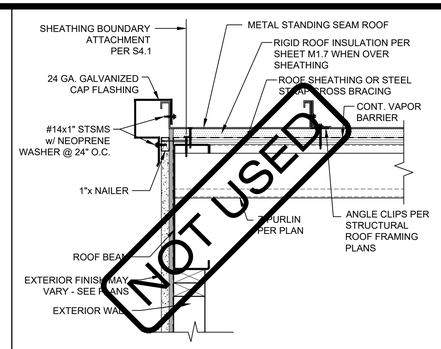
TYPICAL ROOF PLAN
METAL STANDING SEAM

SHEET NUMBER:

A2.0

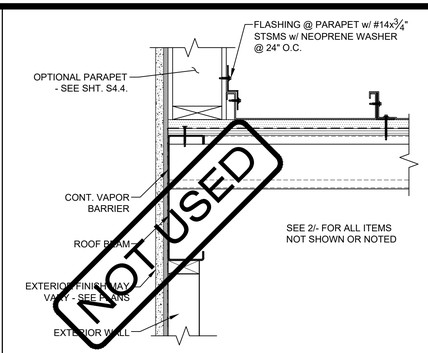
G:\XXXXX - [NAME&PROJECT#]\CAD\[SHEET#]-[SHEET TITLE].dwg 12/20/2023 10:08 AM PDT EDT CDT PST MST

NOT USED 1



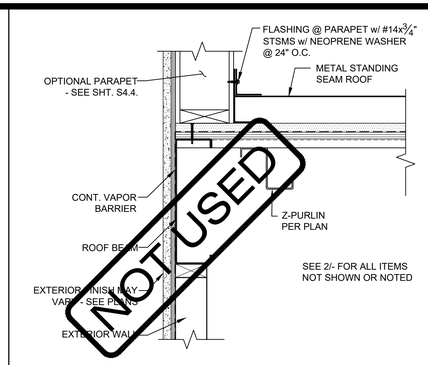
SEE 3 & 4/- FOR PARAPET OPTION.
SEE SHEETS A5.2, A5.4, & A5.6 FOR EXTERIOR FINISHES.

METAL ROOF w/ DECKING SCALE : 1 1/2"=1'-0" 2



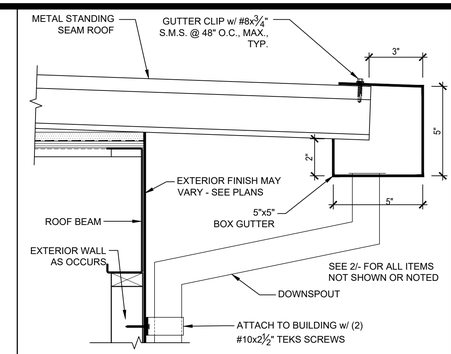
SEE 6/- FOR SCUPPER AT PARAPET.
SEE SHEETS A5.2, A5.4, & A5.6 FOR EXTERIOR FINISHES.

OPTIONAL PARAPET @ METAL ROOF SIDE SCALE : 1 1/2"=1'-0" 3



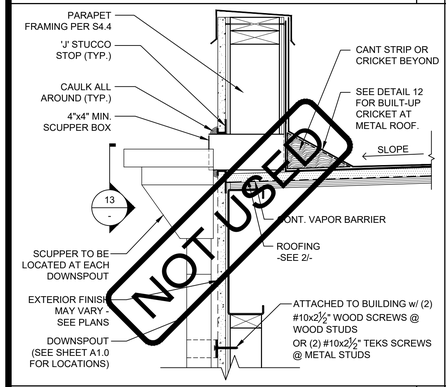
SEE 6/- FOR SCUPPER AT PARAPET.
SEE SHEETS A5.2, A5.4, & A5.6 FOR EXTERIOR FINISHES.

OPTIONAL PARAPET @ METAL ROOF END SCALE : 1 1/2"=1'-0" 4



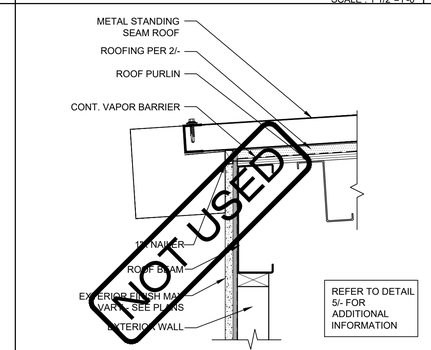
SEE DETAIL 8/- WITHOUT OVERHANG, GUTTER, & DOWNSPOUT OPTION.
SEE DETAIL 10/- WITH OVERHANG OPTION ONLY.
SEE SHEET S4.1 FOR SOFFIT NOT SHOWN.

TYP. GUTTER ATTACHMENT SCALE : 1 1/2"=1'-0" 5



TYP. SCUPPER DETAIL SCALE : 1 1/2"=1'-0" 6

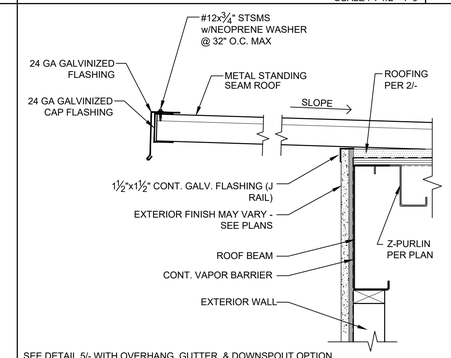
NOT USED 7



SEE DETAIL 5/- WITH OVERHANG, GUTTER, & DOWNSPOUT OPTION.
SEE DETAIL 10/- WITH OVERHANG OPTION ONLY.
SEE SHEET S4.1 FOR SOFFIT NOT SHOWN.

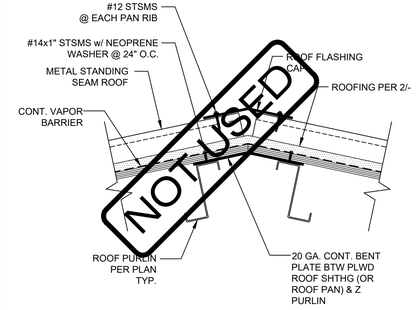
METAL ROOF @ END WALLS (w/o OVERHANGS) SCALE : 1 1/2"=1'-0" 8

NOT USED 9

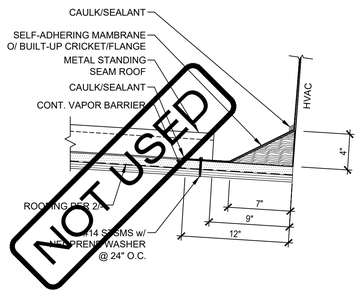


SEE DETAIL 5/- WITH OVERHANG, GUTTER, & DOWNSPOUT OPTION.
SEE DETAIL 8/- WITHOUT OVERHANG, GUTTER, & DOWNSPOUT OPTION.
SEE SHEET S4.1 FOR SOFFIT NOT SHOWN.

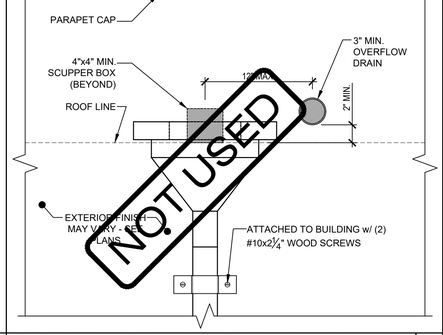
METAL ROOF EDGE @ OVERHANG SCALE : 1 1/2"=1'-0" 10



OPTIONAL METAL DUAL SLOPED SCALE: 1-1/2"=1'-0" 11



BUILT-UP CRICKET AT METAL ROOF SCALE: 1-1/2"=1'-0" 12



TYP. SCUPPER w/ OVERFLOW DRAIN SCALE: 1-1/2"=1'-0" 13

NOT USED 14

NOT USED 15

NOT USED 16

NOT USED 17

NOT USED 18

NOT USED 19

NOT USED 20

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

.
.
.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — PATRICK J. KENNY — No. C12631 — Ren. 3-31-23 — STATE OF CALIFORNIA

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

REVISIONS

1	
2	
3	
4	

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

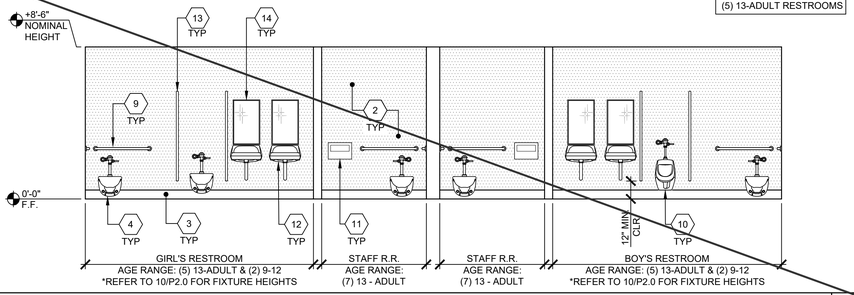
SHEET TITLE:

TYPICAL ROOF DETAILS
METAL STANDING SEAM ROOFING

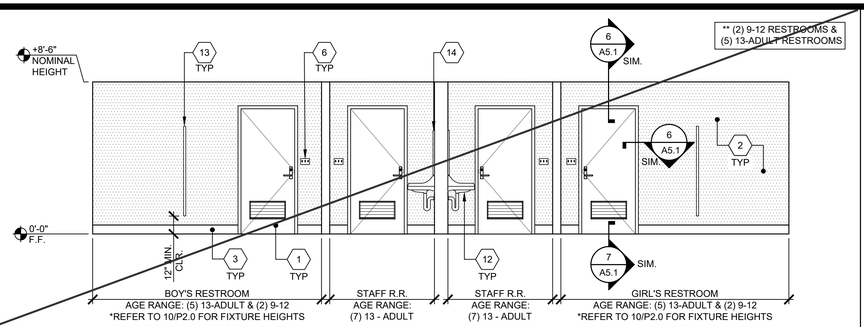
SHEET NUMBER:

A2.1

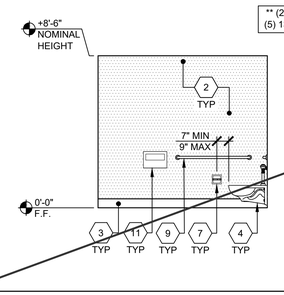
D:\XXXX - [24-XXXX]\REVISION_FILE\~$XXXX-20 (07/18/2022 7:55:45 PM) P:\Projects\2020\2020-120 (12-14-20) 12' x 40' Modular\Form\Plans\Sheets\2020-120 (12-14-20) 12' x 40' Modular.rvt (REVISION FILE) 07/18/2022 7:55:45 PM



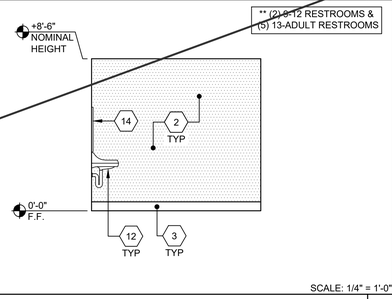
GIRLS, STAFF, STAFF, BOYS RESTROOM | SCALE: 1/4" = 1'-0" | 1



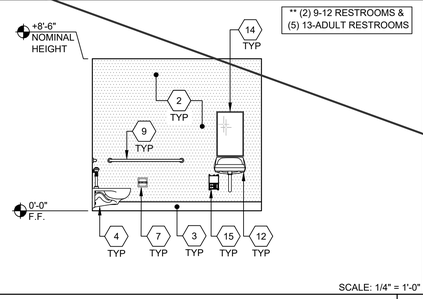
BOYS, STAFF, STAFF, GIRLS RESTROOM: | SCALE: 1/4" = 1'-0" | 2



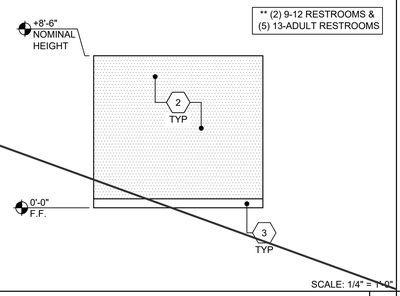
INTERIOR ELEVATION - GIRLS/ BOYS | SCALE: 1/4" = 1'-0" | 3



INTERIOR ELEVATION - GIRLS/ BOYS | SCALE: 1/4" = 1'-0" | 4



INTERIOR ELEVATION - STAFF | SCALE: 1/4" = 1'-0" | 5



INTERIOR ELEVATION - STAFF | SCALE: 1/4" = 1'-0" | 6

KEY NOTES

1. TYPICAL DOOR, SEE N3.0 SHEET
2. F.R.P.(FIBER REINFORCED PLASTIC) - SHALL BE CLASS C RATED (ASTM E-84) EMBOSSED & SMOOTH INTERIOR WALL PANELS. NOMINAL PANELS. NOMINAL PANEL THICKNESS SHALL BE ± 0.090 - PANEL SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.
3. 6" TOP SET BASE
4. ACCESSIBLE TOILET - SEE DETAIL 14/P2.0
5. NOT USED
6. LIGHT SWITCH - SEE ELECTRICAL SHEETS
7. TOILET PAPER DISPENSER (BRADLEY MODEL 508-32, OR EQUAL)
8. TYP. GFCI OUTLET - SEE ELECTRICAL SHEETS
9. GRAB BAR - SEE DETAIL 6/A7.1 & 14/P2.0
10. ACCESSIBLE URINAL - SEE DETAIL 15/P2.0
11. TOILET SEAT COVER DISPENSER (BOBRICK MODEL B-221, OR EQUAL)
12. ACCESSIBLE LAVATORY - SEE DETAIL 17/P2.0
13. TOILET PARTITIONS: SOLID PLASTIC BY ACCURATE PARTITIONS CORP., OR EQUIVALENT, w/ FLOOR ANCHORS, OVERHEAD BRACED OR EQUIVALENT. MINIMUM FLAME SPREAD RATING: 50. MINIMUM SMOKE DEVELOPMENT RATING: 450. (BY OTHERS)
14. TYP. MIRROR (19# MAX. WEIGHT) - SEE DETAIL 17/P2.0
15. INSTA WATER HEATER

NOTE: FOR ACCESSIBLE FIXTURES & ACCESSORIES MOUNTING HEIGHT REQUIREMENTS (PER CBC CHAPTER 11B), SEE SHEET P2.0, DETAIL 10.

NOT USED | 7
NOT USED | 8
NOT USED | 9
NOT USED | 10
NOT USED | 11
NOT USED | 12
NOT USED | 13
NOT USED | 14
NOT USED | 15
NOT USED | 16
NOT USED | 17
NOT USED | 18
NOT USED | 19
NOT USED | 20
NOT USED | 21

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
MMM
STOCKPILE
(20) 12'x40' BUILDINGS

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
ANDREW PATRICK CHENEY
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

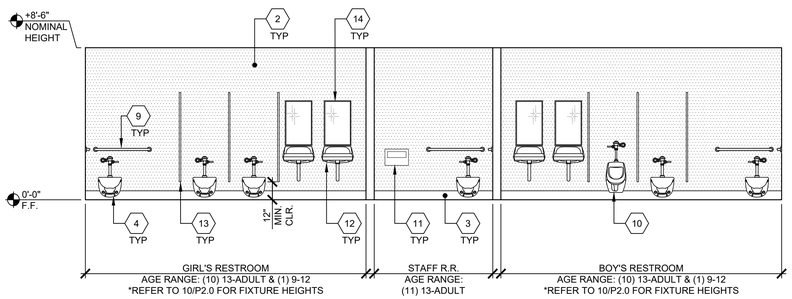
THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD

REVISIONS
1
2
3
4

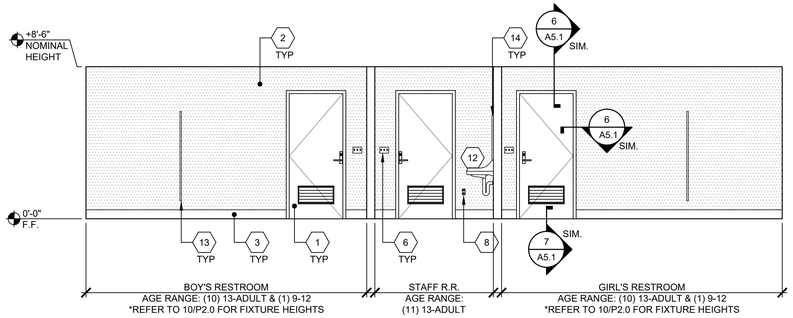
DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	05/02/2023
PROJECT NO:	1790-23

SHEET TITLE:
INTERIOR ELEVATIONS
RESTROOM

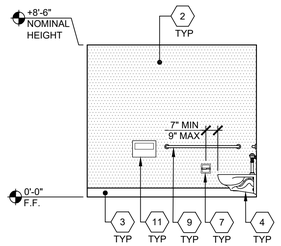
SHEET NUMBER:
A4.1



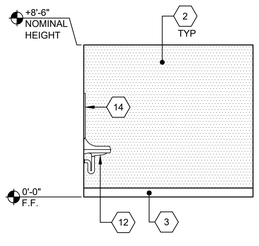
GIRLS, STAFF, BOYS RESTROOM - INTERIOR ELEVATIONS — SCALE: 1/4"=1'-0" — 1



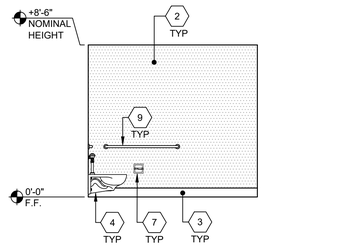
BOYS, STAFF, GIRLS RESTROOM - INTERIOR ELEVATIONS — SCALE: 1/4"=1'-0" — 2



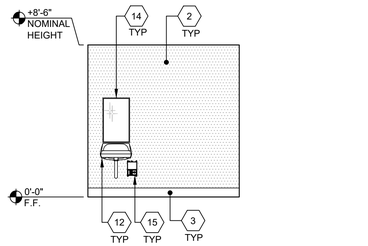
GIRLS, BOYS - INTERIOR ELEVATION — SCALE: 1/4"=1'-0" — 3



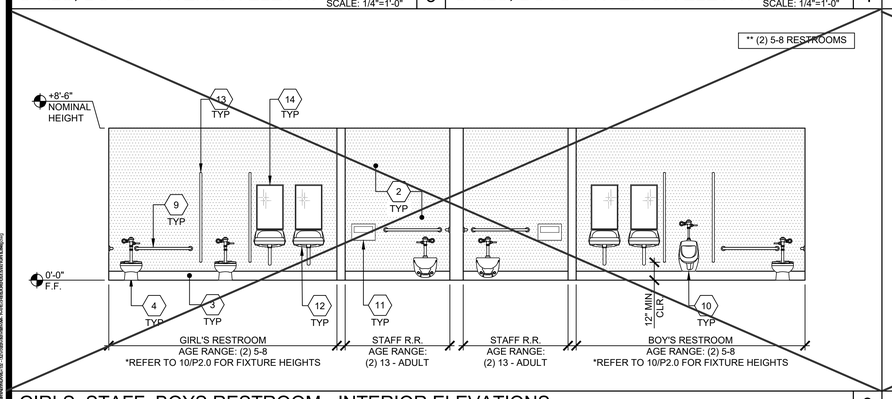
GIRLS, BOYS - INTERIOR ELEVATION — SCALE: 1/4"=1'-0" — 4



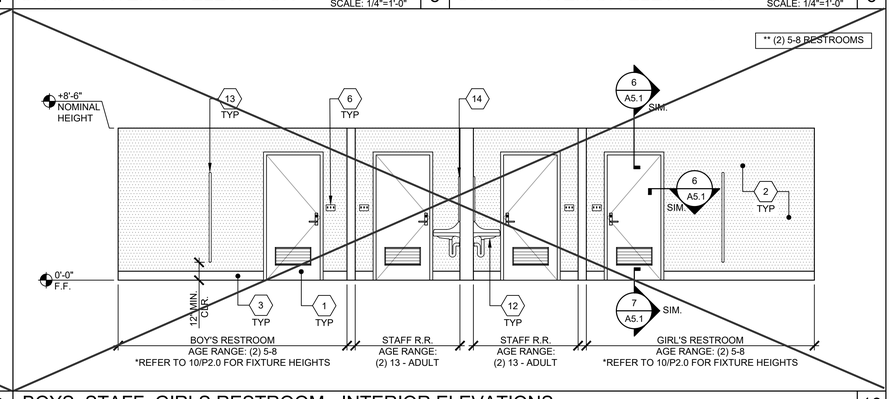
STAFF - INTERIOR ELEVATION — SCALE: 1/4"=1'-0" — 5



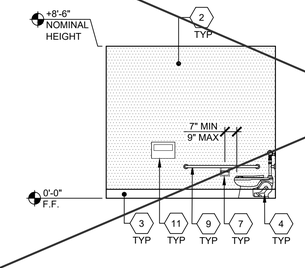
STAFF - INTERIOR ELEVATION — SCALE: 1/4"=1'-0" — 6



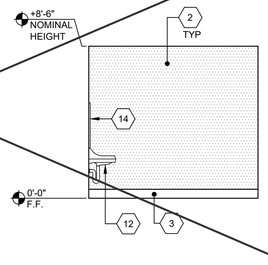
GIRLS, STAFF, BOYS RESTROOM - INTERIOR ELEVATIONS — SCALE: 1/4"=1'-0" — 8



BOYS, STAFF, GIRLS RESTROOM - INTERIOR ELEVATIONS — SCALE: 1/4"=1'-0" — 10



GIRLS, BOYS - INTERIOR ELEVATION — SCALE: 1/4"=1'-0" — 11



GIRLS, BOYS - INTERIOR ELEVATION — SCALE: 1/4"=1'-0" — 12

NOT USED — 13

NOT USED — 14

1 TYPICAL DOOR

2 F.R.P. (FIBER REINFORCED PLASTIC) - SHALL BE CLASS C RATED (ASTM E-84) EMBOSSED & SMOOTH INTERIOR WALL PANELS. NOMINAL PANELS. NOMINAL PANEL THICKNESS SHALL BE ± 0.090 - PANEL SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.

3 6" TOP SET BASE - REFER TO DETAIL 5/A1.2

4 ACCESSIBLE TOILET - SEE DETAIL 14/P2.0

5 HORN/STROBE J-BOX - SEE ELECTRICAL SHEETS

6 LIGHT SWITCH - SEE ELECTRICAL SHEETS

7 TOILET PAPER DISPENSER PER P1.0

8 TYP. GFCI OUTLET - SEE ELECTRICAL SHEETS

9 GRAB BAR - SEE DETAIL 6/A7.1

10 ACCESSIBLE URINAL - SEE DETAIL 15/P2.0

11 TOILET SEAT COVER DISPENSER PER P1.0

12 ACCESSIBLE LAVATORY - SEE DETAIL 17/P2.0

13 TOILET PARTITIONS: SOLID PLASTIC BY ACCURATE PARTITIONS CORP., OR EQUIVALENT, w/ FLOOR ANCHORS, OVERHEAD BRACED OR EQUIVALENT. MINIMUM FLAME SPREAD RATING: 50. MINIMUM SMOKE DEVELOPMENT RATING: 450. (BY OTHERS)

14 TYP. MIRROR (19" MAX. WEIGHT) - SEE DETAIL 17/P2.0

15 INSTA WATER HEATER

NOTE: FOR ACCESSIBLE FIXTURES & ACCESSORIES MOUNTING HEIGHT REQUIREMENTS (PER CBC CHAPTER 11B), SEE SHEET P2.0, DETAIL 10. AGE 13 THRU ADULT IS DEPICTED.

KEY NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
MMM
STOCKPILE
(20) 12'x40' BUILDINGS

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
ANDREW PATRICK CHENEY
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

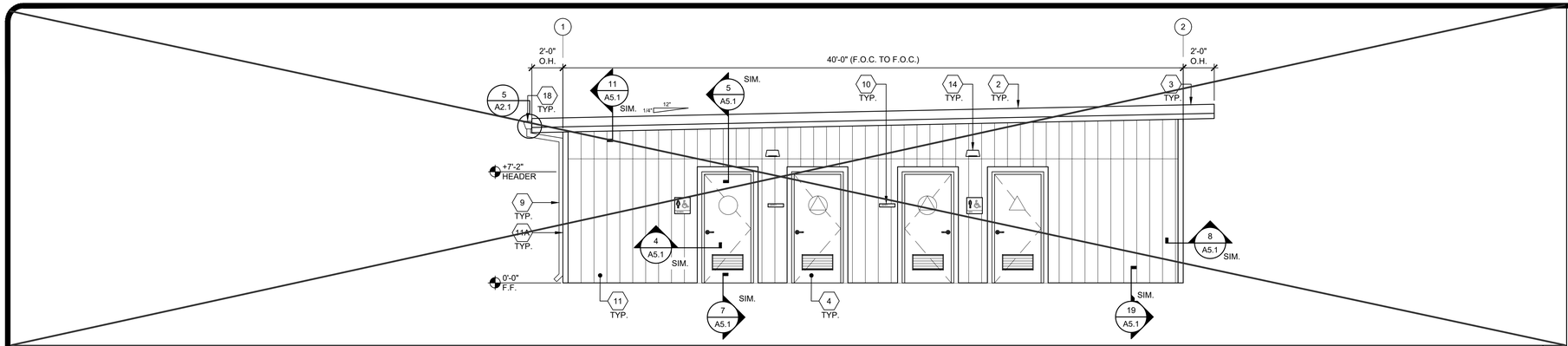
THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS
1
2
3
4

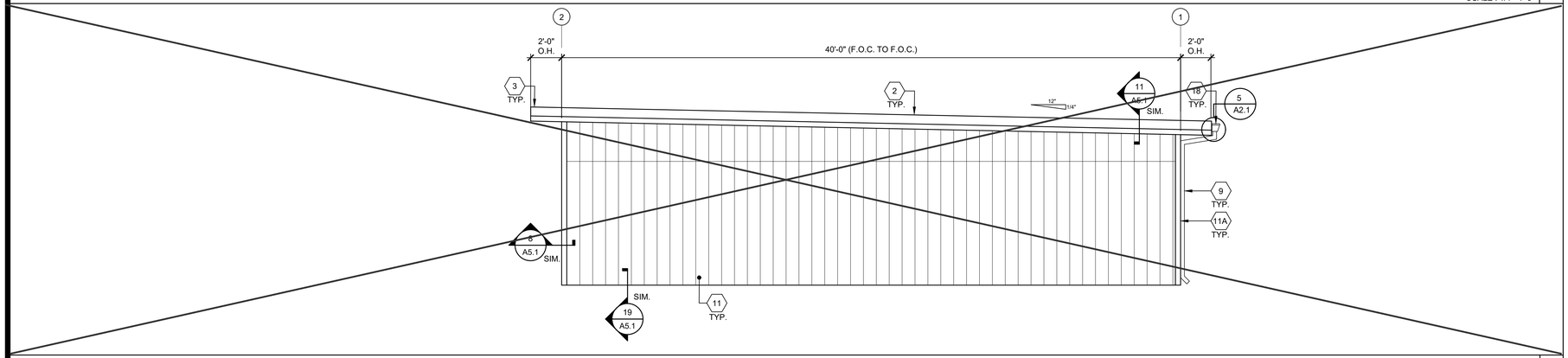
DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	05/02/2023
PROJECT NO:	1790-23

SHEET TITLE:
INTERIOR ELEVATIONS
RESTROOM

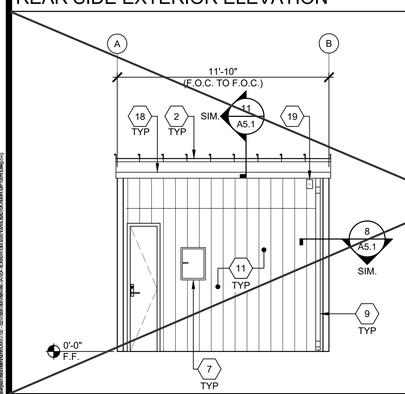
SHEET NUMBER:
A4.1A



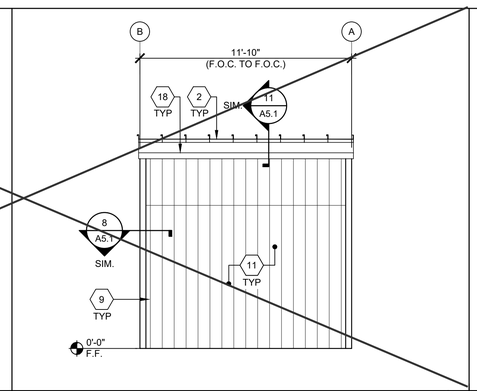
FRONT SIDEWALL EXTERIOR ELEVATION — SCALE : 1/4"=1'-0" | 1



REAR SIDE EXTERIOR ELEVATION — SCALE : 1/4"=1'-0" | 2



LEFT SIDE EXTERIOR ELEVATION — SCALE : 1/4"=1'-0" | 3



RIGHT SIDE EXTERIOR ELEVATION — SCALE : 1/4"=1'-0" | 4

5

6

7

8

9

NOT USED | 10

KEY NOTES

1	NOT USED
2	STANDING SEAM METAL ROOFING
3	OVERHANG - (SEE STRUCTURAL)
4	TYP. EXTERIOR DOOR - (SEE SCHEDULE)
5	NOT USED
6	NOT USED
7	ELECTRICAL PANEL
8	NOT USED
9	DOWNSPOUT SEE DETAIL 8/A5.1 FOR ATTACHMENT
10	ROOM ID AND ISA SIGNAGE (BY OTHER) SEE DETAILS 1-9/N4.0 - TYP.
11	5/8" PLYWOOD SHEATHING 303 FINISH VERTICAL GROOVE CEMENT SIDING
11A	1x4 TRIM CEMENT SIDING TRIM
12	NOT USED
13	NOT USED
14	EXTERIOR LIGHT - (SEE ELECTRICAL)
15	NOT USED
16	NOT USED
17	NOT USED
18	GUTTER - SEE SHEET 5/A2.1
19	MODULAR IDENTIFICATION TAG +90" ABOVE A.F.F.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

MMM
STOCKPILE
(20) 12'x40' BUILDINGS

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — VIRGINIA PATRICK CARNEY — No. C12631 Ren. 3-31-25 — STATE OF CALIFORNIA

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

REVISIONS

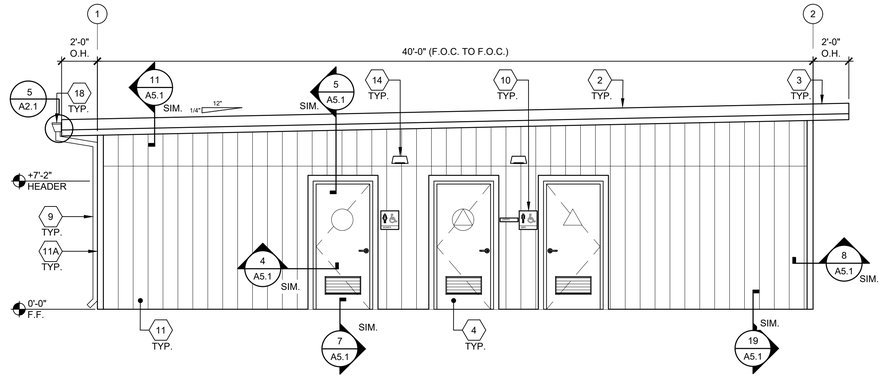
DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	05/02/2023
PROJECT NO:	1790-23

SHEET TITLE:

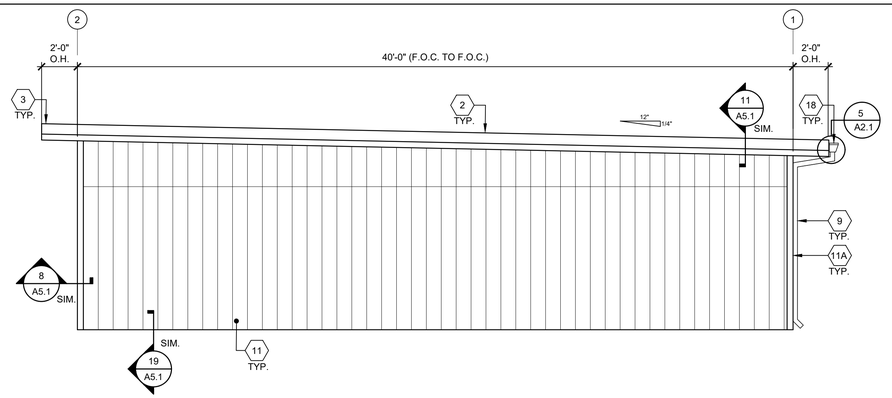
TYP. EXTERIOR ELEVATIONS
- DURATEMP 303 SIDING

SHEET NUMBER:

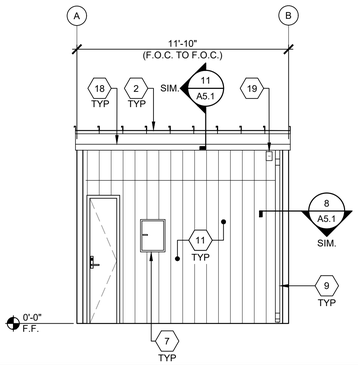
A5.0



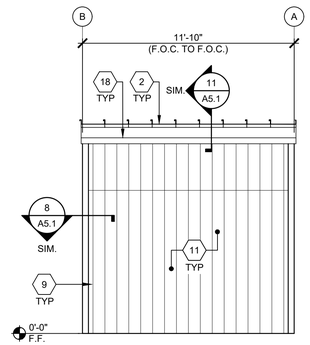
FRONT SIDEWALL EXTERIOR ELEVATION — SCALE : 1/4"=1'-0" | 1



REAR SIDE EXTERIOR ELEVATION — SCALE : 1/4"=1'-0" | 2



LEFT SIDE EXTERIOR ELEVATION — SCALE : 1/4"=1'-0" | 3



RIGHT SIDE EXTERIOR ELEVATION — SCALE : 1/4"=1'-0" | 4

5	
6	
7	
8	
9	
NOT USED	10

KEY NOTES

1	NOT USED
2	STANDING SEAM METAL ROOFING
3	OVERHANG - (SEE STRUCTURAL)
4	TYP. EXTERIOR DOOR - (SEE SCHEDULE)
5	NOT USED
6	NOT USED
7	ELECTRICAL PANEL (LOCATION MAY VARY)
8	NOT USED
9	DOWNSPOUT SEE DETAIL 8/A5.1 FOR ATTACHMENT
10	ROOM ID AND ISA SIGNAGE (BY OTHER) SEE DETAILS 1-9/N4.0 - TYP.
11	5/8" PLYWOOD SHEATHING 303 FINISH
11A	1x4 TRIM
12	NOT USED
13	NOT USED
14	EXTERIOR LIGHT - (SEE ELECTRICAL)
15	NOT USED
16	NOT USED
17	NOT USED
18	GUTTER - SEE SHEET 5/A2.1
19	MODULAR IDENTIFICATION TAG +90" ABOVE A.F.F.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

MMM
STOCKPILE
(20) 12'x40' BUILDINGS

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — PATRICK O'HANLON — No. C12631 Ren. 3-31-25 — STATE OF CALIFORNIA

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

REVISIONS

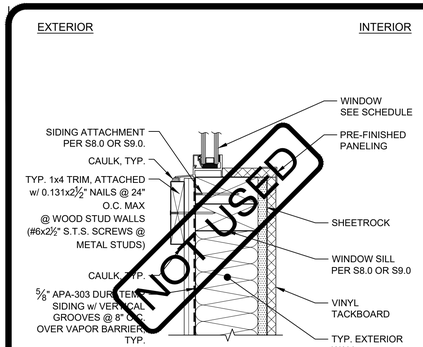
DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	05/02/2023
PROJECT NO:	1790-23

SHEET TITLE:

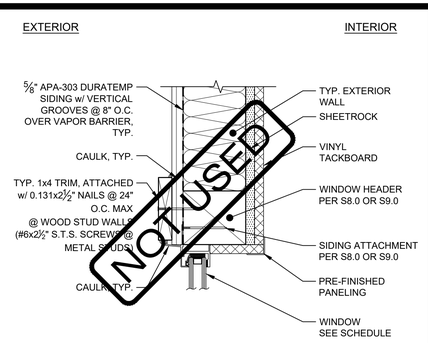
TYP. EXTERIOR ELEVATIONS
- DURATEMP 303 SIDING

SHEET NUMBER:

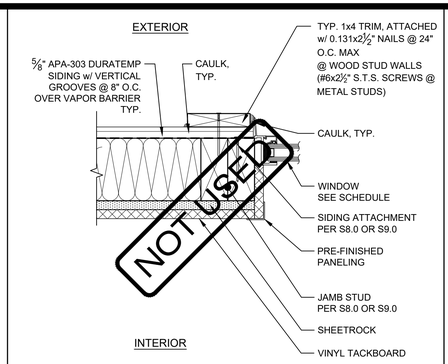
A5.0A



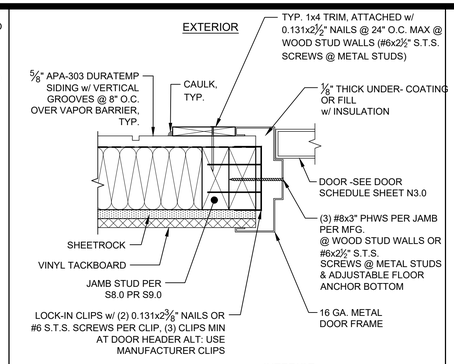
TYPICAL WINDOW SILL — SCALE: 3" = 1'-0" — 1



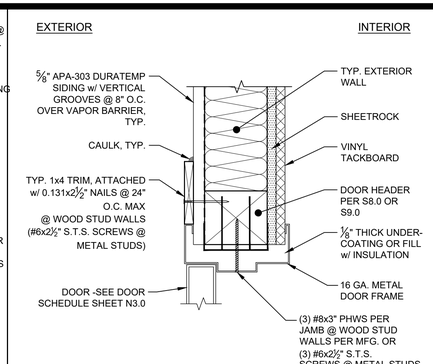
TYPICAL WINDOW HEADER — SCALE: 3" = 1'-0" — 2



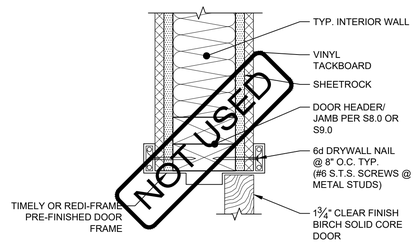
TYPICAL WINDOW JAMB — SCALE: 3" = 1'-0" — 3



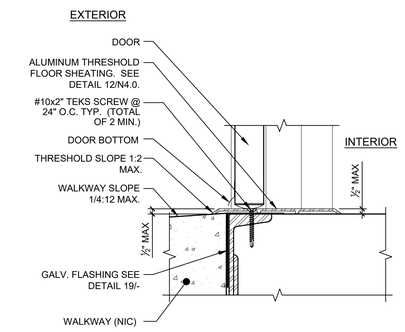
TYPICAL DOOR JAMB — SCALE: 3" = 1'-0" — 4



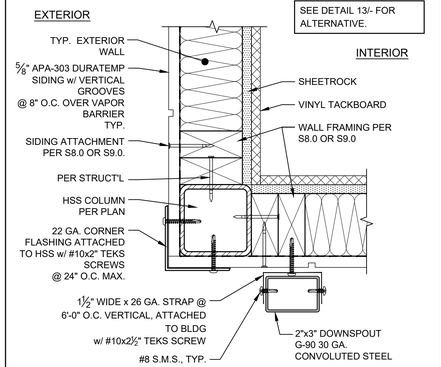
TYPICAL DOOR HEADER — SCALE: 3" = 1'-0" — 5



TYP. INTERIOR DOOR HEADER/JAMB — SCALE: 3" = 1'-0" — 6

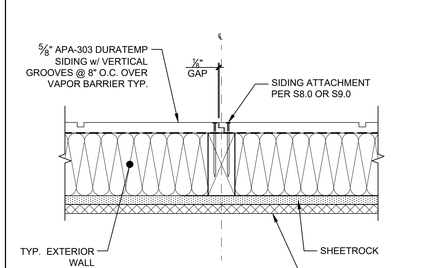


TYPICAL THRESHOLD DETAIL — SCALE: 3" = 1'-0" — 7

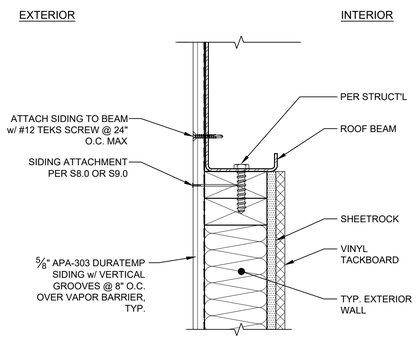


TYP. BLDG CORNER & DOWNSPOUT ATTACHMENT DETAIL — SCALE: 3" = 1'-0" — 8

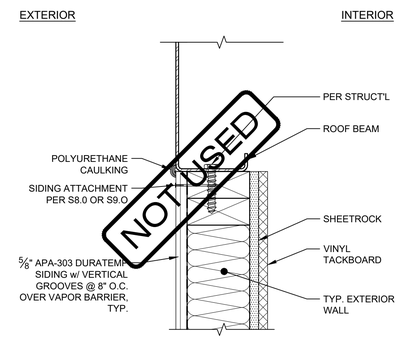
NOT USED — 9



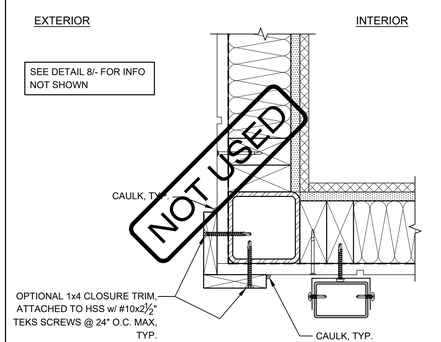
TYP. SIDING JOINT DETAIL — SCALE: 3" = 1'-0" — 10



SIDING DETAIL @ ROOF BEAM — SCALE: 3" = 1'-0" — 11



ALTERNATE SIDING @ ROOF BEAM — SCALE: 3" = 1'-0" — 12



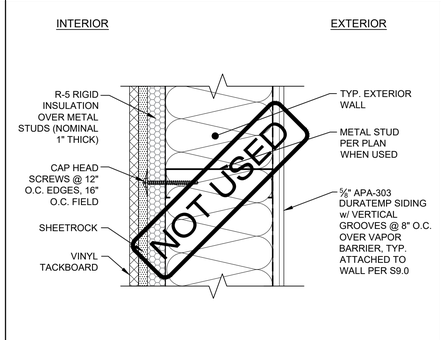
ALTERNATE BUILDING CORNER DETAIL — SCALE: 3" = 1'-0" — 13

NOTES:

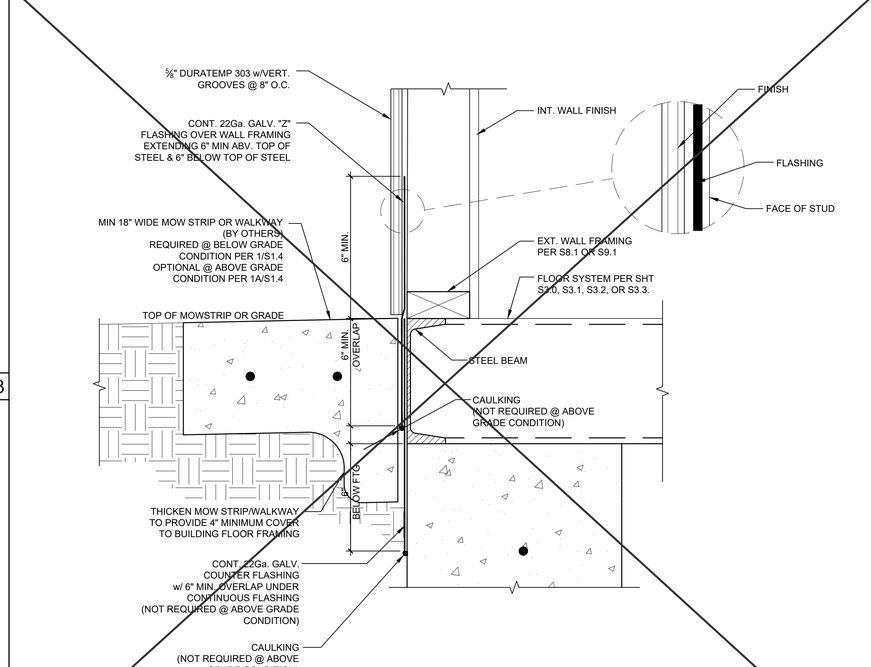
1. FOR OPTIONAL METAL STUD FRAMING, SEE S9.0-S9.2.
2. ADDITIONAL R-4 RIGID INSULATION REQUIRED @ METAL STUD WALLS, PER INSULATION SCHEDULE SHEET M1.7 & DETAIL 18/-
3. FOR FINISH OPTIONS, SEE SHEET A7.0.

NOT USED

SHEET NOTES — 17



RIGID INSULATION @ METAL STUDS — SCALE: 3" = 1'-0" — 18



FLASHING DETAIL — SCALE: 3" = 1'-0" — 19

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

. . .

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — RAYMOND PATRICK CHENG — No. C12631 Ren. 3-31-23 — STATE OF CALIFORNIA

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

REVISIONS

1	
2	
3	
4	

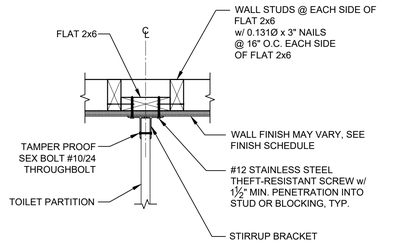
DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

SHEET TITLE:

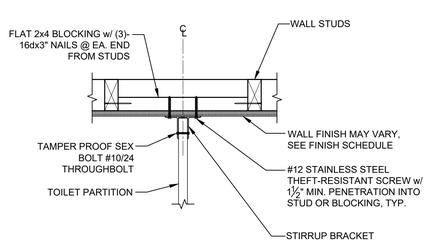
TYP. ARCHITECTURAL DETAILS - DURATEMP 303 SIDING OPTION

SHEET NUMBER:

A5.1

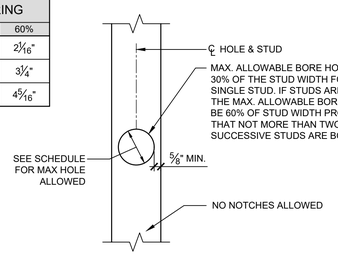


WOOD STUDS
OPTION No. 1

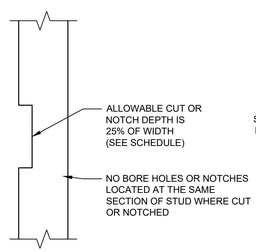


WOOD STUDS
OPTION No. 2

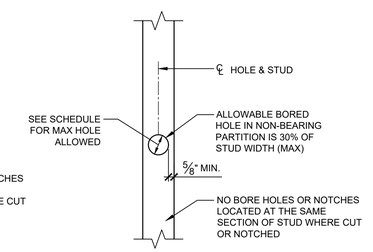
NOTCH & BORING SCHEDULE					
	STUD WIDTH		NOTCHING	BORING	
SIZE	NOMINAL	ACTUAL	25%	30%	60%
2x4	4"	3½"	7⁄8"	1"	2 1⁄16"
2x6	6"	5½"	1 3⁄8"	1 5⁄8"	3¼"
2x8	8"	7¼"	1 13⁄16"	2⅛"	4 5⁄16"



EXTERIOR WALL
BORING



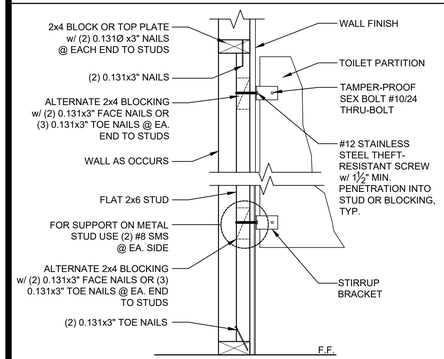
INTERIOR WALL
NOTCHING



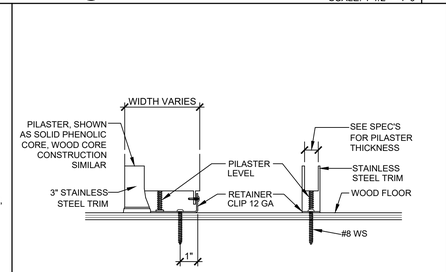
INTERIOR WALL
BORING

TOILET PARTITION ANCHORAGE BLOCKING DETAILS @ WALL

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

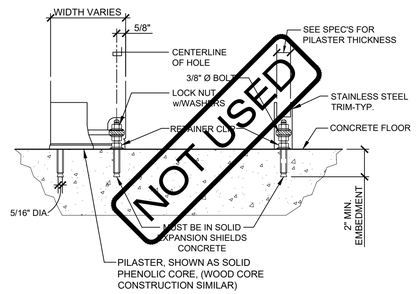


NOTE: FOR METAL STUD OPTION, SEE SHEET 20/S9.1 FOR BLOCKING.

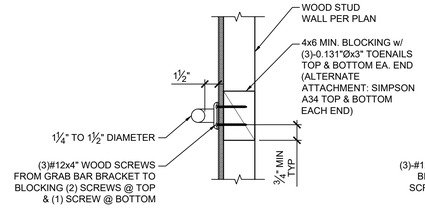


STUD NOTCHING AND BORING DETAILS

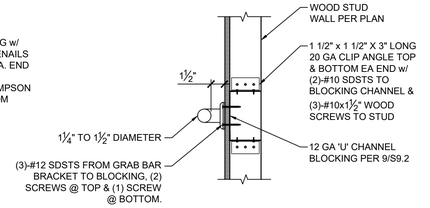
NOT TO SCALE | 2



DRILL HOLES FOR FLOOR ATTACHMENT 5/8" FROM EDGE OF PILASTER. TYPICAL FOR ALL LOCATIONS. NOTE: PLACE STAINLESS STEEL TRIM ON PILASTER, SLIDE UP BEFORE SECURING PILASTER TO FLOOR ATTACHMENT.



TYPICAL GRAB BAR
BLOCKING DETAIL



ALTERNATE GRAB BAR
BLOCKING DETAIL

NOTE: FOR METAL STUD WALL OPTION, SEE DETAILS 9&10/S9.2.

TOILET PARTITION WALL BLOCKING

NOT TO SCALE | 3

PARTITION TO WOOD FLOOR

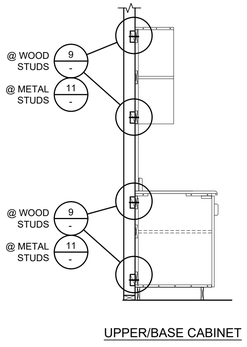
NOT TO SCALE | 4

PARTITION TO CONCRETE FLOOR

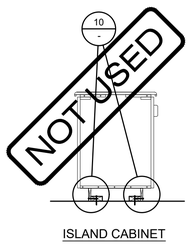
NOT TO SCALE | 5

GRAB BAR BLOCKING DETAIL

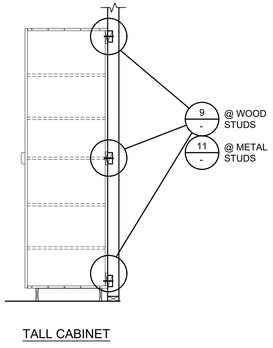
SCALE: 1-1/2" = 1'-0" | 6



UPPER/BASE CABINET



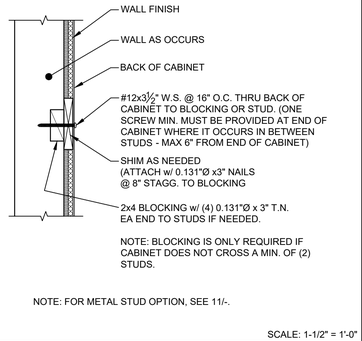
ISLAND CABINET



TALL CABINET

TYP. CABINET ATTACHMENT

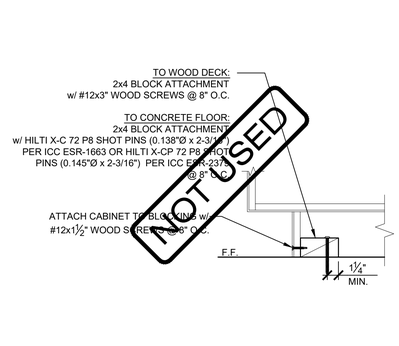
NOT TO SCALE | 8



NOTE: FOR METAL STUD OPTION, SEE 11/-.

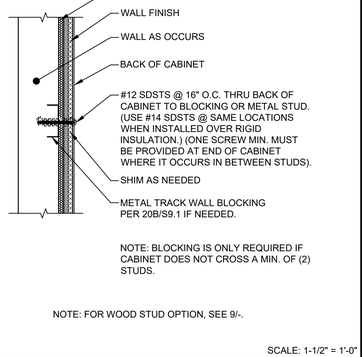
CABINET ATTACHMENT @ WOOD STUDS

SCALE: 1-1/2" = 1'-0" | 9



CABINET ATTACHMENT @ FLOOR

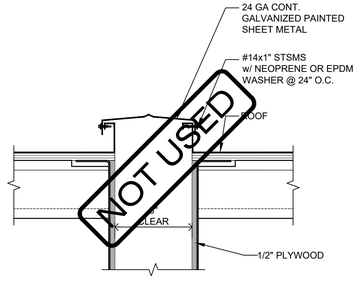
SCALE: 1-1/2" = 1'-0" | 10



NOTE: FOR WOOD STUD OPTION, SEE 9/-.

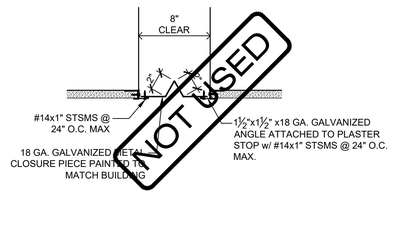
CABINET ATTACHMENT @ METAL STUDS

SCALE: 1-1/2" = 1'-0" | 11



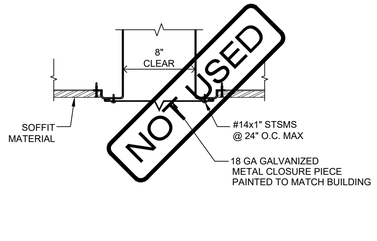
SEISMIC CLOSURE @ ROOF

12 |



SEISMIC CLOSURE @ WALL

13 |



SEISMIC CLOSURE @ SOFFIT

14 |

NOT USED

15 |

NOT USED

16 |

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
.
.
.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — TIMOTHY PATRICK KENNEDY — No. C12631 — Rem. 3-31-23 — STATE OF CALIFORNIA

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

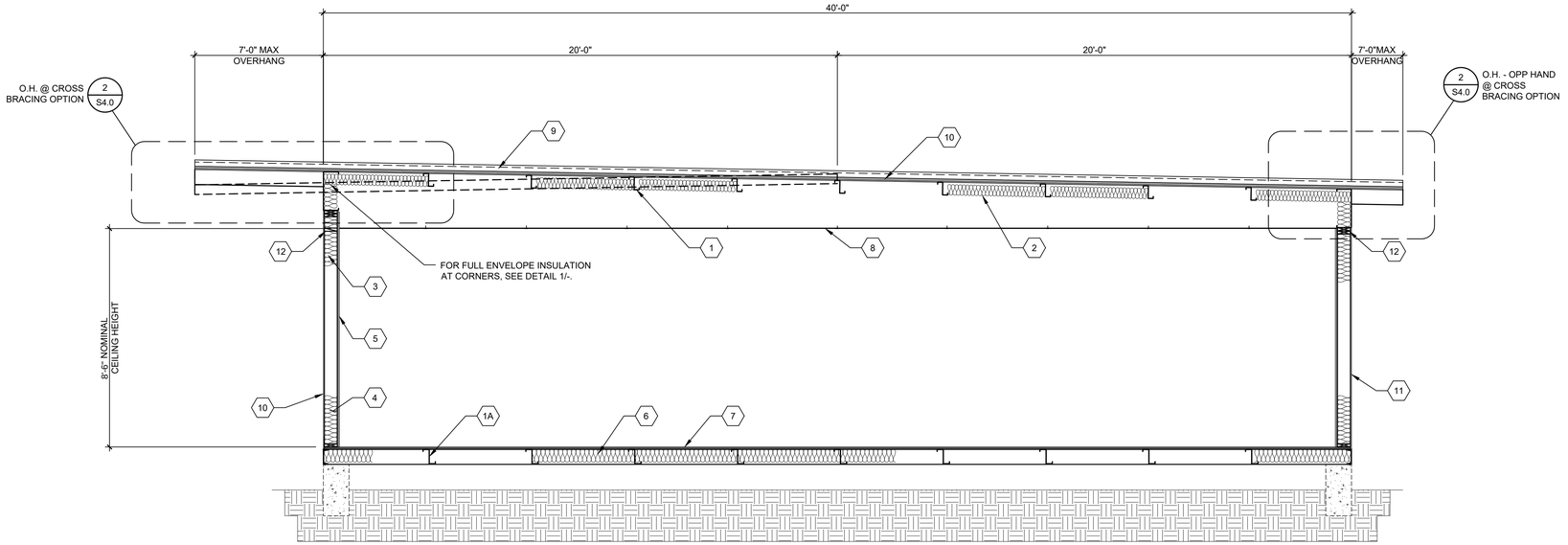
REVISIONS
1
2
3
4

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

SHEET TITLE:
MISCELLANEOUS ARCHITECTURAL DETAILS

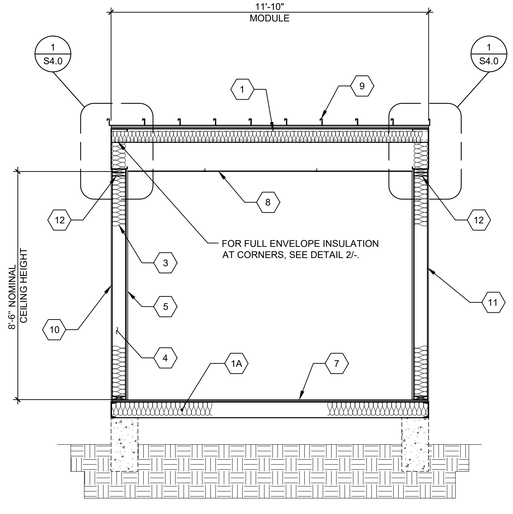
SHEET NUMBER:
A7.1

D:\XXXX - 20-AUG\ARCHIVE\Revit\Sheets\A7.1 MISCELLANEOUS ARCHITECTURAL DETAILS_2022-07-18 PM.rvt



TYP. LONGITUDINAL SECTION-MONO/DUAL PITCH

SCALE: 3/8"=1'-0" A



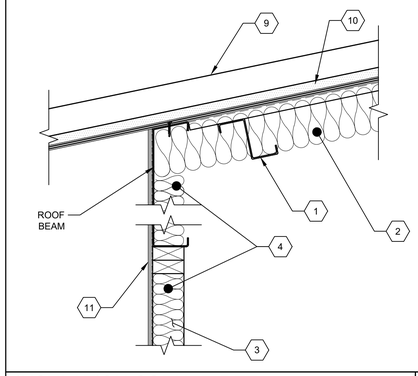
TYP. TRANSVERSE SECTION-MONO/DUAL PITCH

SCALE: 3/8"=1'-0" B

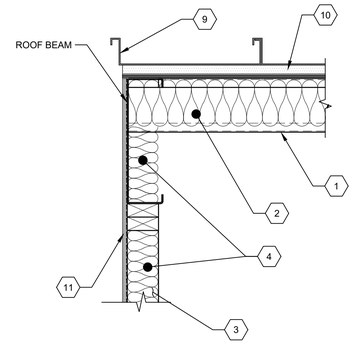
1 ROOF PURLINS PER ROOF FRAMING PLAN
1A FLOOR JOISTS PER FLOOR FRAMING PLAN
2 BATT ROOF INSULATION PER SHEET M1.7
3 WALL FRAMING PER SHEETS S8.0 ~~OR S9.0~~
4 WALL INSULATION PER SHEET M1.7
5 VINYL FABRIC OVER TACKABLE BRACING PANELS
6 BATT FLOOR INSULATION PER SHEET M1.7 (PLYWOOD FLOOR ONLY)
7 PLYWOOD FLOOR PER SHEET S3.0 ~~OR CONCRETE FLOOR PER SHEETS S3.1 - S3.3~~
8 SUSPENDED T-BAR CEILING PER M1.0
9 FINISHED ROOFING PER ROOF PLAN & ROOF FRAMING PLAN
10 STEEL CROSS BRACING WITHOUT RIGID ROOF INSULATION (S4.0)
11 EXTERIOR WALL FINISH PER EXTERIOR ELEVATIONS
12 FIRE BLOCKING @ CEILING LEVEL PER CBC 718.2

KEY NOTES

NOT USED



INSULATION CORNER DET. SCALE: 1-1/2"=1'-0" 1



INSULATION CORNER DET. SCALE: 1-1/2"=1'-0" 2

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

. . .

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
PATRICK J. KNOX
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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

REVISIONS

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

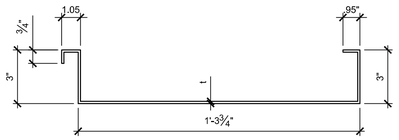
SHEET TITLE:

TYPICAL LONGITUDINAL AND TRANSVERSE FRAME SECTIONS

SHEET NUMBER:

A7.3

D:\XXXX_[plan]\[DATE]\[Dir]\[Dir]\[DD]\[DD]\[DD



ASTM A1011 SS, GRADE 36
Fy = 36 ksi

w/ GALVANIZATION
t=0.0356 IN. MIN.

w/0 GALVANIZATION
t=0.0329 IN. MIN.
(0.035 IN. DESIGN)

EFFECTIVE SECTION PROPERTIES

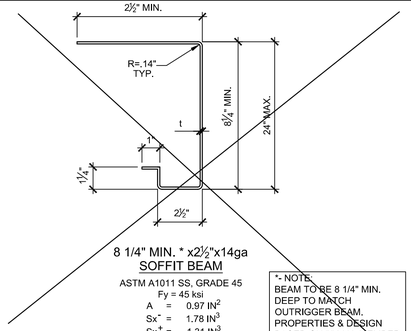
$Sx^+(t)$	=	0.364 $IN.^3$	$Sx^-(t)$	=	0.330 $IN.^3$
$Sx^+(b)$	=	1.371 $IN.^3$	$Sx^-(b)$	=	0.306 $IN.^3$
Ix^+	=	0.863 $IN.^4$	Ix^-	=	0.476 $IN.^4$
			Ae	=	0.259 $IN.^2$

GROSS SECTION PROPERTIES

A	=	0.844 IN^2
Sx(t)=		0.418 IN^3
Sx(b)=		1.412 IN^3
Ix	=	0.968 IN^4

20GA ROOF PAN MAY BE USED @ ROOFS WITH SHEATHING (S4.1) OR WITHOUT SHEATHING (S4.0)

20GA ROOF PAN PROPERTIES | 2

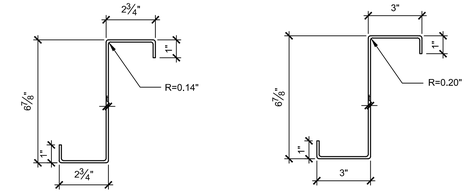


8 1/4" MIN. * x2½"x14ga
SOFFIT BEAM
ASTM A1011 SS, GRADE 45
Fy = 45 ksi

A	=	0.97 IN^2
Sx^-	=	1.78 IN^3
Sx^+	=	1.31 IN^3
Ix	=	6.87 IN^4
t	=	0.068 IN MIN. (0.0713 IN DESIGN)

*- NOTE:
BEAM TO BE 8 1/4" MIN. DEEP TO MATCH OUTRIGGER BEAM. PROPERTIES & DESIGN BASED ON 7" MIN. MEMBER.

SOFFIT BEAM PROPERTIES | 3

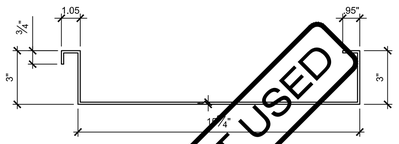


$6\frac{7}{8}$"x$2\frac{3}{4}$"x14ga
FLOOR JOIST
ASTM A1011 SS, GRADE 45
Fy = 45 ksi

A	=	0.98 IN^2
Sx	=	2.10 IN^3
Ix	=	7.22 IN^4
t	=	0.068 IN MIN. (0.0713 IN DESIGN)

$6\frac{7}{8}$"x3"x12ga
FLOOR JOIST
ASTM A1011 SS, GRADE 45
Fy = 45 ksi

A	=	1.43 IN^2
Sx	=	3.06 IN^3
Ix	=	10.54 IN^4
t	=	0.097 IN MIN. (0.1017 IN DESIGN)

LIGHT GAUGE FLOOR JOIST PROPERTIES | 5

NOT USED

ASTM A1011 SS, GRADE 36 (Fy = 36 ksi)
OR ASTM A653 SS, GRADE 37 (Fy = 37 ksi)

w/ GALVANIZATION
t=0.0296 IN. MIN.

w/o GALVANIZATION
t=0.0269 IN. MIN.
(0.0283 IN. DESIGN)

EFFECTIVE SECTION PROPERTIES

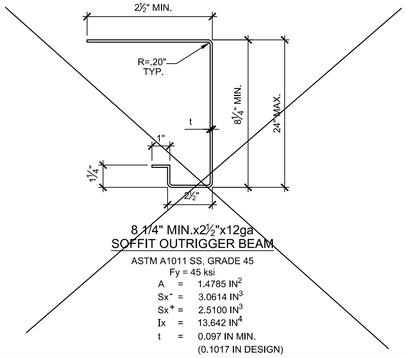
$Sx^+(t)$	=	0.253 $IN.^3$	$Sx^-(t)$	=	0.260 $IN.^3$
$Sx^+(b)$	=	1.148 $IN.^3$	$Sx^-(b)$	=	0.226 $IN.^3$
Ix^+	=	0.618 $IN.^4$	Ix^-	=	0.363 IN.
			Ae	=	0.180 $IN.^2$

GROSS SECTION PROPERTIES

A	=	0.682 IN^2
Sx(t)=		0.338 IN^3
Sx(b)=		1.148 IN^3
Ix	=	0.784 IN^4

22GA ROOF PAN MAY BE ONLY USED @ ROOFS WITH SHEATHING (S4.1)

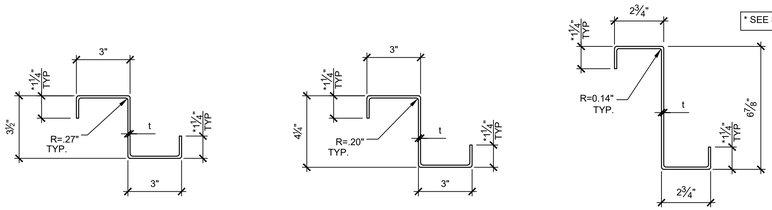
22GA ROOF PAN PROPERTIES | 7



8 1/4" MIN.x2½"x12ga
SOFFIT OUTRIGGER BEAM
ASTM A1011 SS, GRADE 45
Fy = 45 ksi

A	=	1.4785 IN^2
Sx^-	=	3.0614 IN^3
Sx^+	=	2.5100 IN^3
Ix	=	13.642 IN^4
t	=	0.097 IN MIN. (0.1017 IN DESIGN)

OUTRIGGER BEAM PROPERTIES | 8



$3\frac{1}{2}$"x3"x10ga
ROOF PURLIN
ASTM A1011 SS, GRADE 50
Fy = 50 ksi

A	=	1.31 IN^2
Sx	=	1.51 IN^3
Ix	=	2.64 IN^4
t	=	0.1278 IN MIN. (0.1345 IN DESIGN)

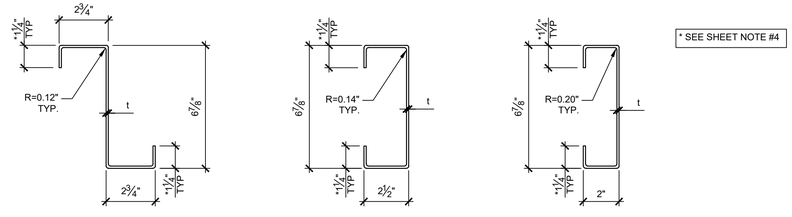
$4\frac{1}{4}$"x3"x12ga
ROOF PURLIN
ASTM A1011 SS, GRADE 45
Fy = 45 ksi

A	=	1.16 IN^2
Sx	=	1.63 IN^3
Ix	=	3.46 IN^4
t	=	0.097 IN MIN. (0.1017 IN DESIGN)

$6\frac{7}{8}$"x$2\frac{3}{4}$"x14ga
ROOF PURLIN
ASTM A1011 SS, GRADE 45
Fy = 45 ksi

A	=	0.98 IN^2
Sx	=	2.10 IN^3
Ix	=	7.22 IN^4
t	=	0.068 IN MIN. (0.0713 IN DESIGN)

LIGHT GAUGE ROOF PURLIN PROPERTIES (FOR USE W/ ROOF FRAMING PLANS S4.0 & S4.1) | 10



$6\frac{7}{8}$"x$2\frac{3}{4}$"x16ga 'Z'
TYPICAL ROOF PURLIN
ASTM A1011 SS, GRADE 50
Fy = 50 ksi

A	=	0.79 IN^2
Sx	=	1.69 IN^3
Ix	=	5.82 IN^4
t	=	0.0538 IN MIN. (0.0566 IN DESIGN)

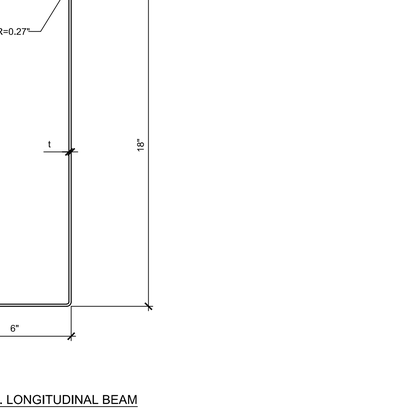
$6\frac{7}{8}$"x2½"x14ga 'C'
ALTERNATE ROOF PURLIN
ASTM A1011 SS, GRADE 45
Fy = 45 ksi

A	=	0.95 IN^2
Sx	=	1.98 IN^3
Ix	=	6.81 IN^4
t	=	0.0677 IN MIN. (0.0713 IN DESIGN)

$6\frac{7}{8}$"x2"x12ga 'C'
ALTERNATE ROOF PURLIN
ASTM A1011 SS, GRADE 45
Fy = 45 ksi

A	=	1.22 IN^2
Sx	=	2.39 IN^3
Ix	=	8.20 IN^4
t	=	0.0966 IN MIN. (0.1017 IN DESIGN)

LIGHT GAUGE ROOF PURLIN PROPERTIES (FOR USE W/ ROOF FRAMING PLAN S4.1 ONLY) | 15

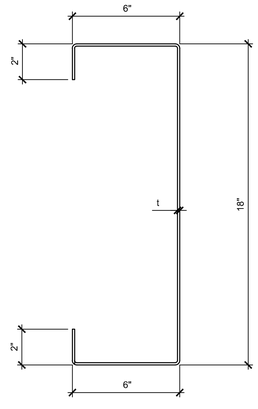


10 GA. LONGITUDINAL BEAM

ASTM = A1011 SS
GRADE = 50
Fy = 50ksi
t = 0.1278 IN. MIN.
(0.1345 IN. DESIGN)

BEAM DEPTH	18"
A (IN^2)	4.15
S_X MIN. (IN^3)	22.39
I_X MIN. (IN^4)	201.54

ROOF BEAM PROPERTIES | 18



10 GA. TRANSVERSE BEAM / HEADER

ASTM = A1011 SS
GRADE = 50
Fy = 50ksi
t = 0.1278 IN. MIN.
(0.1345 IN. DESIGN)

BEAM DEPTH	18"
A (IN^2)	4.15
S_X MIN. (IN^3)	22.39
I_X MIN. (IN^4)	201.54

NOT USED | 19

1. THE MATERIAL THICKNESS OF LIGHT GAUGE STRUCTURAL MEMBERS, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED ON SHEET S0.0 THE MATERIAL GAGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.
2. UNLESS NOTED OTHERWISE, ALL SECTION PROPERTIES ARE GROSS SECTION PROPERTIES.
3. LIGHT GAUGE STRUCTURAL MEMBERS TO BE FABRICATED FROM HOT ROLLED SHEETS WITH RUST INHIBITIVE COATING. SEE SHEET N2.0, "LIGHT GAUGE METAL STUDS & COLD FORMED STEEL", FOR ADDITIONAL INFORMATION.
4. PURLIN DESIGNS & PURLIN PROPERTIES USE 1" STIFFENING LIPS T&B, PURLIN STIFFENING LIPS HAVE BEEN INCREASED FROM 1" TO 1 1/4" T&B TO ACCOMMODATE CADDY CLIP FASTENERS FOR CEILING SUPPORT PER 12/M1.4

SHEET NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems®
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — JOSEPH PATRICK ORTH — No. C12631 Ren. 3-31-23 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — MANNY D. FRIAS — No. 21080 Exp. 06/31/22 — STRUCTURAL — STATE OF CALIFORNIA

12/21/2021

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

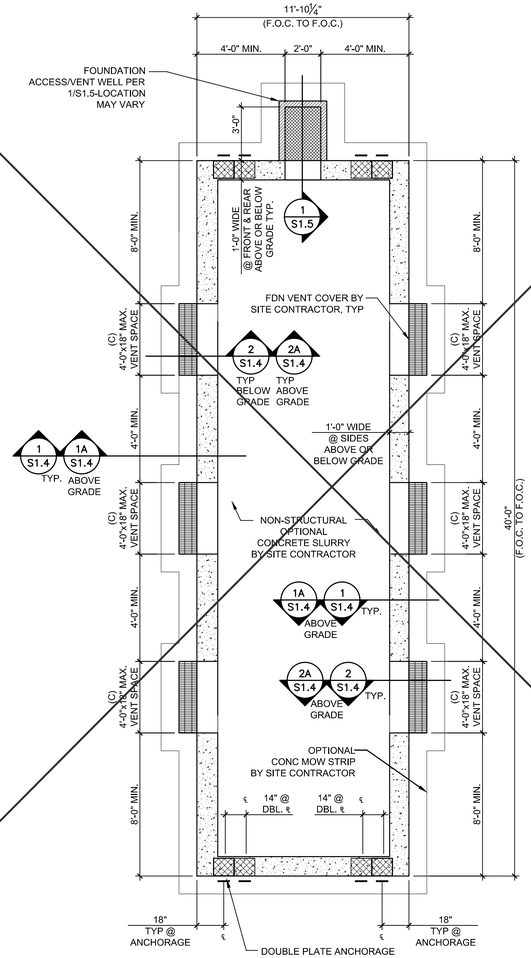
REVISIONS

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

SHEET TITLE:
STEEL MEMBER PROPERTIES

SHEET NUMBER:
S0.0

REAR



FRONT

CONCRETE FOUNDATION PLAN (WOOD FLOOR) 100 PSF MAX FLOOR LIVE LOAD

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

1. CONCRETE MIXTURES:
   - A. ULTIMATE 28-DAY CONCRETE COMPRESSIVE STRENGTH (f'c) SHALL BE PER SHEET N1.0A
   - B. PROPORTIONING OF CONCRETE MIXTURES SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.3.
   - C. DOCUMENTATION OF CONCRETE MIXTURE CHARACTERISTICS SHALL BE IN ACCORDANCE WITH ACI 318-14, SECTION 26.4.4.
   - D. CEMENT SHALL BE CERTIFIED PER TITLE 24, PART 2, SECTION 1910A.1.
   - E. SEE SHEET N1.0 FOR ADDITIONAL CONCRETE NOTES.
2. BUILDINGS MAY BE SET ON CONCRETE FOUNDATIONS THAT HAVE REACHED A MINIMUM CONCRETE COMPRESSIVE STRENGTH OF 2,500 PSI. PRIOR TO THE SETTING OF THE MODULAR BUILDING ON CONCRETE FOUNDATIONS THAT HAVE NOT YET CURED 28 DAYS POST PLACEMENT OF FOUNDATION CONCRETE, THE FOUNDATION CONTRACTOR SHALL
   - A. HAVE THE PROJECT TESTING LAB PERFORM CONCRETE CYLINDER COMPRESSION TESTS OF THE FOUNDATION CONCRETE USED AT THE SITE.
   - B. FURNISH THE PROJECT IOR AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE WITH THE CONCRETE TEST REPORTS VERIFYING THAT THE FOUNDATION CONCRETE HAS REACHED THE MINIMUM STRENGTH AS SPECIFIED ABOVE, AND
   - C. NOTIFY THE PROJECT IOR AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE OF THEIR INTENT TO SET THE MODULAR BUILDING PRIOR TO 28 DAYS POST PLACEMENT OF FOUNDATION CONCRETE.
3. REINFORCING STEEL SHALL BE 60,000 PSI MINIMUM, PER ASTM A615. THE REINFORCING BARS SHALL BE TESTED PER TITLE 24, PART 2, SECTION 1910A.2. TEST OF REINFORCING BARS MAY BE WAIVED PROVIDED CERTIFIED MIL TEST REPORTS ARE PROVIDED FOR EACH SHIPMENT OF SUCH REINFORCEMENT.
4. DESIGN SOIL BEARING CAPACITY: 1500 PSF.
   (1/3 INCREASE IN SOIL BEARING CAPACITY NOT PERMITTED FOR WIND & SEISMIC LOAD COMBINATIONS UNLESS USING ALTERNATIVE BASIC LOAD COMBINATIONS PER CBC SECTION 1605A.3.2)
5. THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SHALL VERIFY THE NET AREA OF THE UNDER-FLOOR VENTING IS EQUAL TO OR LARGER THAN THE VENT AREA REQUIRED (AS SHOWN ON THE ADJACENT TABLE).

IN THE EVENT, THAT AMS DOES NOT INSTALL THE FOUNDATION:

SUB CONTRACTOR PERFORMING CONCRETE FOUNDATION INSTALLATION MUST MEET THE FOLLOWING QUALIFICATIONS:

1. A MINIMUM OF 5 YEARS CONTINUOUS AND CURRENT EXPERIENCE INSTALLING MODULAR (PIT SET) FOUNDATIONS.
2. A MINIMUM OF 5 YEARS CONTINUOUS AND CURRENT EXPERIENCE WITH PUBLIC WORKS PROJECTS SPECIFIC TOEDUCATION.
3. A MINIMUM OF 5 YEARS CONTINUOUS AND CURRENT EXPERIENCE WORKING ON DIVISION OF STATE ARCHITECT (D.S.A.) APPROVED AND INSPECTED PROJECTS.

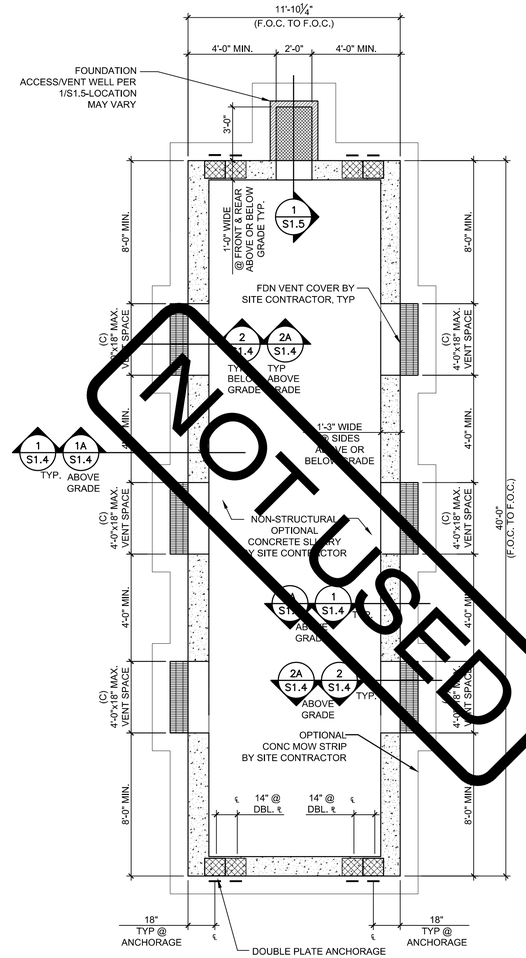
FOUNDATION DESIGN AND ENGINEERING BY AMS, INSTALLATION BY OTHERS. AMS IS NOT RESPONSIBLE FOR QUALITY OF INSTALLATION, INSPECTIONS, NOR ACCEPTANCE OF FOUNDATION. ANY REVIEW PERFORMED BY AMS SHALL BE CONSIDERED A COURTESY TO ASSIST WITH THE OVERALL PROJECT SUCCESS AND DOES NOT REMOVE THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH PLANS AND SPECIFICATIONS. CONTRACTOR PERFORMING FOUNDATION INSTALLATION IS RESPONSIBLE TO ENSURE THE FOUNDATION IS COMPLETED PER PLANS, SPECIFICATION'S, AND MEETS TOLERANCES FOR MODULAR BUILDINGS AS DESCRIBED BELOW. ALL DIMENSIONS INDICATED ON APPROVED DRAWINGS SHALL BE FIELD VERIFIED BY CONTRACTOR BEFORE CONCRETE POURING.

CRAWLSPACE TO BE 18" CLEAR MINIMUM FROM TOP OF STEM WALL TO TOP OF CONCRETE SLURRY. CONCRETE SLURRY (IF APPLICABLE) TO BE MIN 2" THICK, AND SLOPED TO UNDERFLOOR DRAINAGE (DRAINAGE TO COMPLY WITH IR 16-1) TOP OF CONCRETE STEM WALL AND STEEL EMBEDS CANNOT BE MORE THAN 1/8" OUT OF PLANE, PLUMB AND LEVEL (HORIZONTAL, VERTICAL AND SQUARE, DIAGONAL) OVER THE OVERALL LENGTH AND WIDTH OF THE FOUNDATION FOOTPRINT. AMS WILL NOT PROVIDE SUPERVISION NOR SIGN OFF ON WORK PERFORMED BY OTHERS.

IN THE EVENT ENGINEERING IS REQUIRED TO ACCOMMODATE ERROR'S OR OMISSION'S, REWORK, OR ADDITIONAL COORDINATION/ENGINEERING ALL EXPENSES SHALL BE REIMBURSED TO AMS.

NOTES

REAR



NOT USED

FRONT

CONCRETE FOUNDATION PLAN (CONCRETE FLOOR) 100 PSF MAX FLOOR LIVE LOAD

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

NOMINAL BLDG SIZE (FT)	TOTAL # OF 12' WIDE MODULES	"A" TOTAL # OF CENTER MODULES	"B" TOTAL FNDN WIDTH[1]	TOTAL NOMINAL FLOOR AREA (FT^2)	NET FREE VENT AREA REQ'D[3] (FT^2)	IF 4'x12" VENTS ARE USED SOLELY		IF 4'x18" VENTS ARE USED SOLELY	
						"C" MIN. TOTAL VENTS REQ'D[3]	NET FREE VENT AREA PROVIDED[3] (FT^2)	"C" MIN. TOTAL VENTS REQ'D[3]	NET FREE VENT AREA PROVIDED[3] (FT^2)
☒ 12'x40'	2	0	11'-10¼"	480	3.2	2	5.8	2	8.8

NOTES:

TOTAL FOUNDATION WIDTH INCLUDES ¼" PER MODULE CONSTRUCTION TOLERANCE.

1. UNLESS NOTED OTHERWISE, DIMENSIONS ARE FROM FACE OF CONCRETE TO FACE OF CONCRETE (FOC TO FOC)
2. THE NUMBER OF VENTS REQUIRED IS BASED ON THE VENT NET FREE AREA (NFA) PROVIDED BEING GREATER OR EQUAL TO THE VENT NFA REQUIRED. VENT NFA REQUIRED IS BASED ON A 1:150 VENTILATION RATIO OF THE NOMINAL BUILDING FLOOR AREA. VENT NFA PROVIDED IS THE ACTUAL OPEN AREA WITH A VENT GROSS AREA REDUCTION PERCENTAGE OF 73% & NUMBER OF VENTS PROVIDED.

   $NFA_{REQUIRED} = A_{FLOOR} / 150$ $NFA_{PROVIDED} > NFA_{REQUIRED}$ $A_{VENT,GROSS}$ x 73% x (# OF VENTS) > $NFA_{REQUIRED}$

4. REQUIRED VENTING MAY BE ACHIEVED BY A COMBINATION OF ACCESS VENT(S) AND VENTS OF DIFFERENT SIZES BASED ON THE VALUES LISTED BELOW.

   4'x12" VENTS x 0.73 x (# OF VENTS) = 2.92 FT^2 x (# OF VENTS)

   4'x18" VENTS x 0.73 x (# OF VENTS) = 4.38 FT^2 x (# OF VENTS)

   ACCESS VENTS - 2' x1.5' x (# OF VENTS) = 3.00 FT^2 x (# OF VENTS)

VENTING

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — REGINALD PATRICK CONNOR — No. C12631 Ren. 3-31-23 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — MANNY D. FRUCTUOSO — No. P-3280 Exp. 06/30/22 — MECHANICAL — STATE OF CALIFORNIA

12/21/2021

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

REVISIONS

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

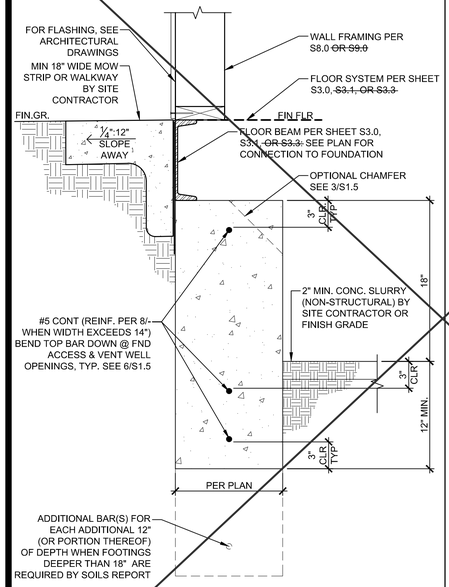
SHEET TITLE:

CONCRETE FOUNDATION PLANS CONCRETE FLOORS (100 PSF MAX FLOOR LIVE LOAD)

SHEET NUMBER:

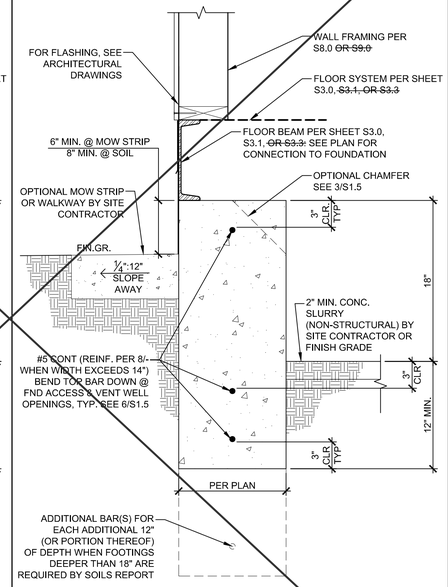
S1.0

G:\XXXX\X_Jobs\Jobs\Builds\A-Jobs-Stds\SD-120083\240 PM\120083SD 07/07/22 01:01:01 PM By: J:\Engineering\Projects\Jobs\SD\SD120083 - 02\120083SD - S1.0.dwg



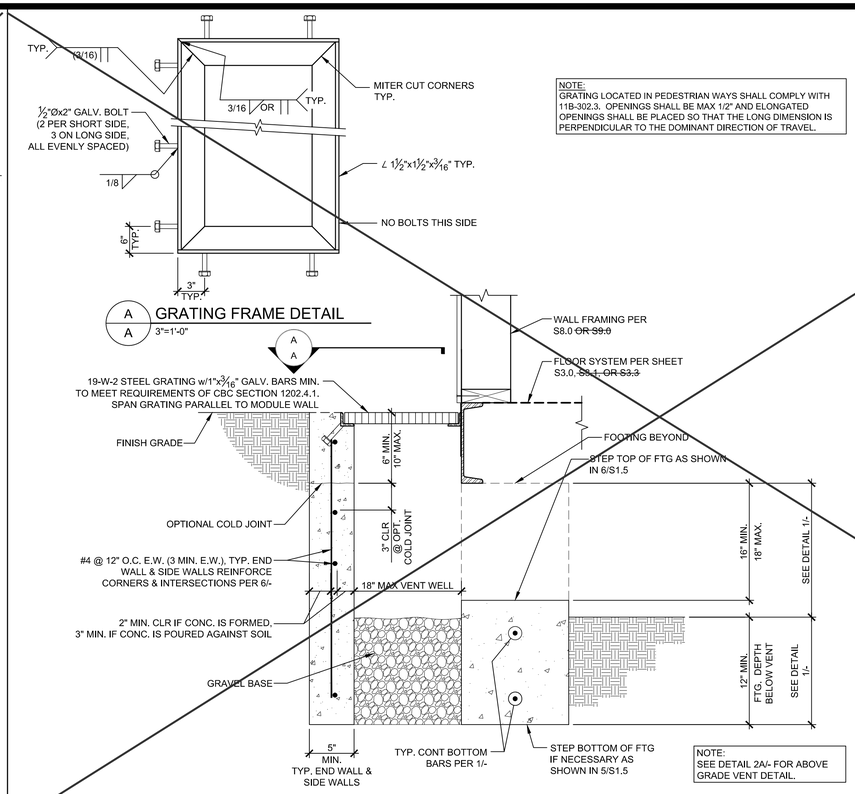
TYP. FOOTING - BELOW GRADE

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



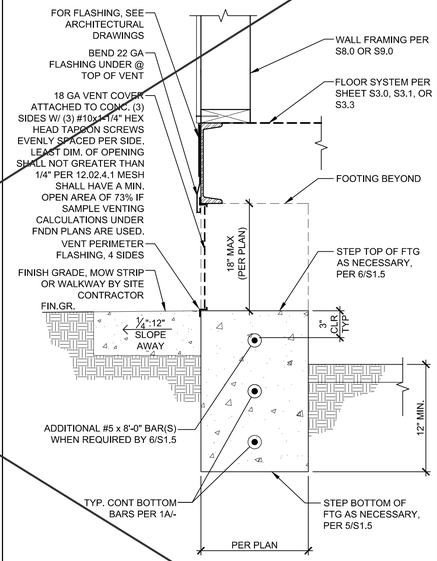
TYP. FOOTING - ABOVE GRADE

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



TYP. VENT DETAIL - BELOW GRADE

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

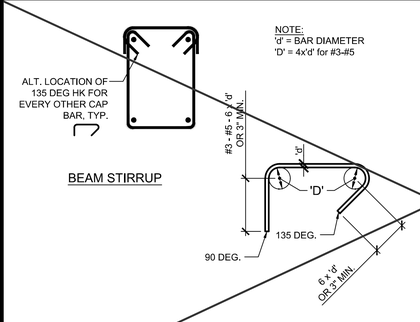


TYP. VENT DETAIL - ABOVE GRADE

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

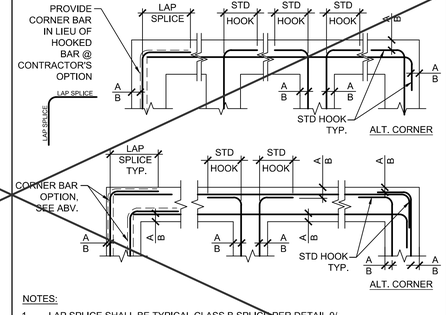
NOT USED | 3

NOT USED | 3A



TYPICAL HOOP-STIRRUP DETAIL

SCALE: 1-1/2" = 1'-0" | 5



NOTES:
1. LAP SPLICE SHALL BE TYPICAL CLASS B SPLICE PER DETAIL 9/-.
2. HOOK LENGTH SHALL BE MIN 12d OR 12", WHICHEVER IS GREATER, WHERE d = DIAMETER OF THE BAR.
3. "A" = 2" COVER @ FORMED FOOTING
4. "B" = 3" COVER @ UNFORMED FOOTING

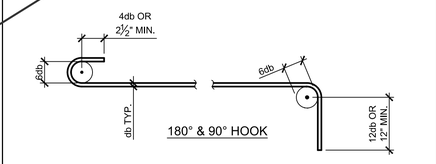
TYPICAL FOOTING REINFORCING

SCALE: 1-1/2" = 1'-0" | 6

REINFORCING SCHEDULE		
FOOTING WIDTH (IN.)	CONTINUOUS LONGITUDINAL REINFORCING (EACH HORIZ. LEVEL)	TRANSVERSE REINFORCING (EACH HORIZ. LEVEL)
12"	(1) #5	NOT REQ'D
12"< W ≤ 16"	(1) #6	NOT REQ'D
	(2) #5	#4 @ 24" O.C.
16"< W ≤ 24"	(2) #5	#4 @ 24" O.C.
24"< W ≤ 36"	(3) #5	#4 @ 24" O.C.
36"< W ≤ 48"	(4) #5	#4 @ 24" O.C.

REINFORCEMENT WHEN FOOTING EXCEEDS 12"

8



BAR SIZE #	DEVELOPMENT LENGTH[3]			TYPICAL CLASS B LAP SPLICE LENGTH[4]					
				3000 PSI		3500 PSI		4000+ PSI	
	3000 PSI (IN)	3500 PSI (IN)	4000+ PSI (IN)	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	24	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.

TYP. REINFORCING LAPS & BENDS

SCALE: 1-1/2" = 1'-0" | 9

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING
FORM®

SITE SPECIFIC PROJECT NAME
.
.
.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — EDWARD PATRICK CONNOLLY — No. C12631 — Ren. 3-31-23 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — MANNY D. FRANCO — No. 21081 — Exp. 06/31/22 — STRUCTURAL — STATE OF CALIFORNIA

12/21/2021
THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

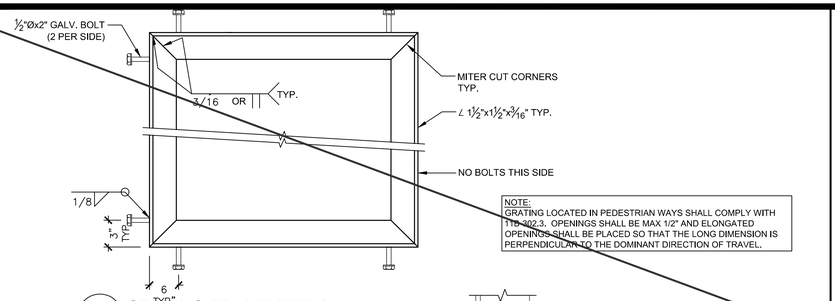
REVISIONS
1
2
3
4

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

SHEET TITLE:
CONCRETE FOUNDATION DETAILS

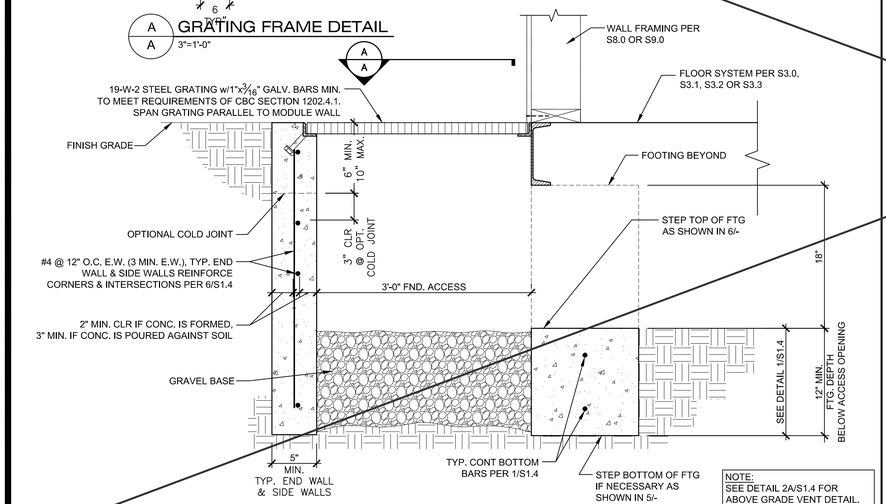
SHEET NUMBER:
S1.4

03-XXXX 2[A-H]-[A/B/C/D]-[A/B/C/D]-[01/02/03/12/23/24] PK:[YES/NO] [YES/NO] [YES/NO] [



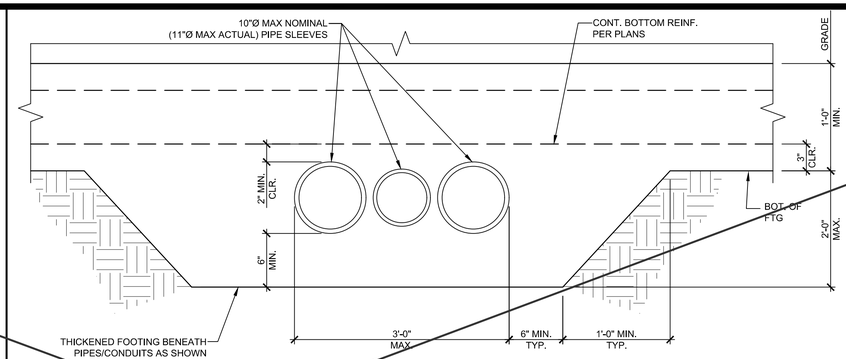
NOTE:
GRATING LOCATED IN PEDESTRIAN WAYS SHALL COMPLY WITH 11B-302.3. OPENINGS SHALL BE MAX 1/2" AND ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.

A A GRATING FRAME DETAIL
3"=1'-0"



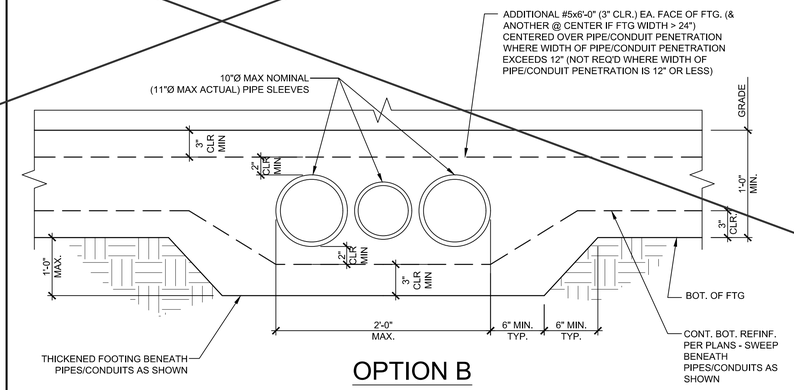
NOTE:
SEE DETAIL 2A/S1.4 FOR ABOVE GRADE VENT DETAIL.

BELOW GRADE SECTION / ACCESS WELL DETAIL
SCALE:1 1/2"=1'-0" | 1

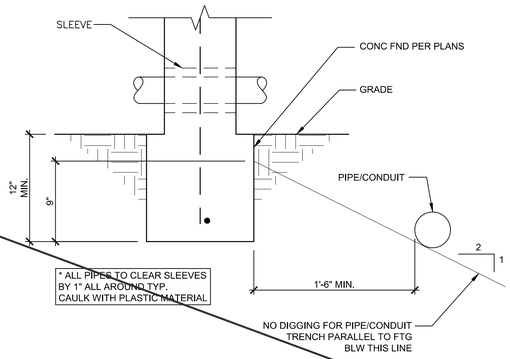


OPTION A

NOTES:
1. AS AN OPTION TO INDIVIDUAL PIPE SLEEVES, THE FOOTING MAY BE BLOCKED OUT FOR MULTIPLE PIPES (10" HIGH x 36" WIDE MAX @ OPTION "A", 10" HIGH x 24" WIDE MAX OPTION "B") OR INDIVIDUALLY. PROVIDE 1" MIN. CLEARANCE ALL AROUND BETWEEN PIPES/CONDUITS & BLOCKOUT/SLEEVES & FILL w/ CAULK.
2. CONCRETE SHALL BE WELL CONSOLIDATED AROUND & UNDER PIPES, CONDUITS, SLEEVES, BLOCKOUTS TO PREVENT CONCRETE VOIDS.
3. PROVIDE 2" CLEAR MIN BETWEEN BLOCKOUT SLEEVES AND REINFORCEMENT.
4. WHERE TOP OF PIPES/CONDUITS ARE 12" OR MORE BELOW THE BOTTOM OF THE FOOTING, THICKENED FOOTING AROUND PIPES/CONDUITS IS NOT REQUIRED. BACKFILL & COMPACT TO 95% OVER PIPES / CONDUITS PRIOR TO PLACING FOOTING.

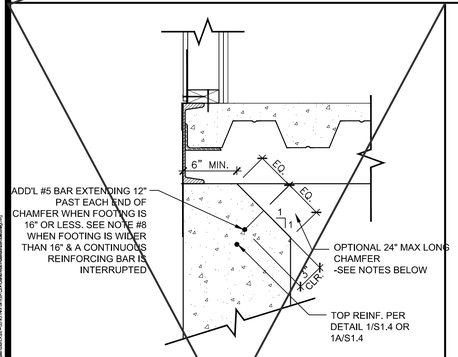


OPTION B



* ALL PIPES TO CLEAR SLEEVES BY 1" ALL AROUND TYP. CAULK WITH PLASTIC MATERIAL

PIPE SLEEVE DETAIL
SCALE: 1-1/2"=1'-0" | 2

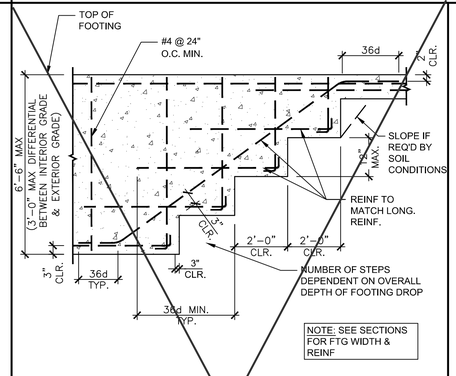


NOTES:

1. CHAMFER MAY BE LOCATED ALONG ALL LOCATIONS OF THE PERIMETER OF THE BUILDING FOUNDATION UNLESS OTHERWISE NOTED ON PLAN OR AS DESCRIBED BELOW.
2. CHAMFER SHALL NOT BE LOCATED WITHIN 3'-6" OF THE CORNERS OF THE BUILDING FOUNDATION.
3. CHAMFER SHALL NOT BE LOCATED WITHIN 1'-6" OF ANCHORAGE EMBED. PLATE LOCATIONS
4. CHAMFERS AT FRONT OR REAR END WALL FOOTINGS SHALL NOT BE LOCATED WITHIN 3'-6" OF A MODULE LINE
5. CHAMFERS SHALL NOT BE LOCATED WITHIN 1'-6" OF UTILITY OPENINGS PER SHEET S1.7
6. CHAMFER MAY OCCUR AT THE ENDS OF VENT OR ACCESS OPENINGS (ALONG THE INTERIOR EDGE OF THE STEMWALL PARALLEL TO THE FLOOR BEAM AS SHOWN ABOVE)
7. BOTTOM OF CHAMFER SHALL NOT BE LOWER THAN FINISHED GRADE
8. WHERE THE FOOTING IS WIDER THAN 16" AND THE CHAMFER INTERRUPTS A CONTINUOUS LONGITUDINAL REINFORCING BAR, PROVIDE AN ADDITIONAL #5 x 6'-0" BAR 3" CLEAR AND CENTERED ON THE CHAMFER
9. FOR ALL ITEMS NOT SHOWN OR NOTED SEE DETAILS 1/S1.4 & 1A/S1.4.

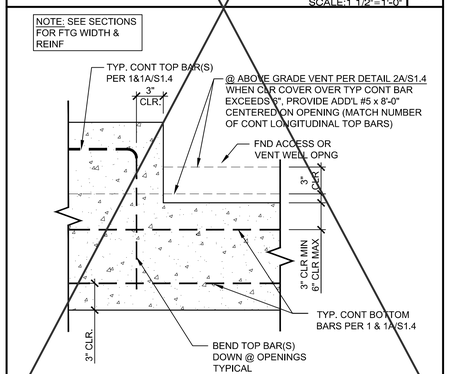
CHAMFER DETAILS @ PERIMETER
SCALE:1 1/2"=1'-0" | 3

NOT USED | 4



NOTE: SEE SECTIONS FOR FTG WIDTH & REINF

TYPICAL STEPPED FOOTING DETAIL
SCALE:1 1/2"=1'-0" | 5



VENT/ACCESS OPENING DETAIL
SCALE:1 1/2"=1'-0" | 6

NOT USED | 7

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT PATRICK G. KNIGHT No. C12631 Ren. 3-31-23 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER MANNY D. FRANCO No. 21081 Exp. 06/30/22 STRUCTURAL STATE OF CALIFORNIA

12/21/2021

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

REVISIONS

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

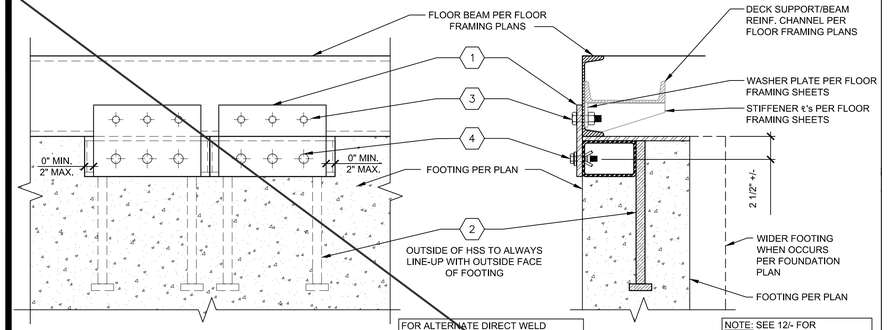
SHEET TITLE:

CONCRETE FOUNDATION DETAILS

SHEET NUMBER:

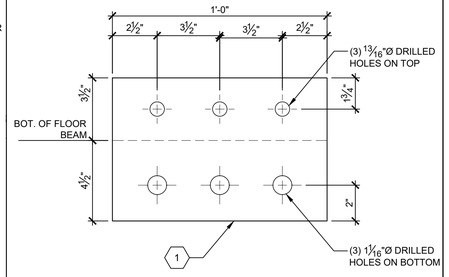
S1.5

D:\XXXX-20-AMS\SITE\BIM\Revit\Sheets\S1.5_CONCRETE FOUNDATION DETAILS.rvt 12/20/2021 3:01:07 AM



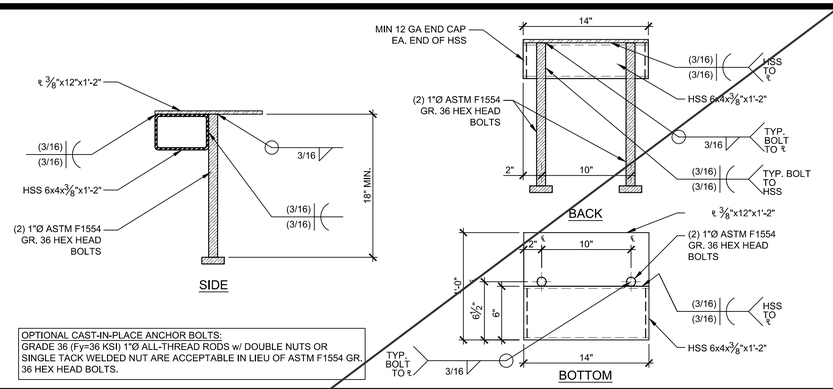
STANDARD ANCHORAGE DETAIL

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



SIDE PLATE DETAIL

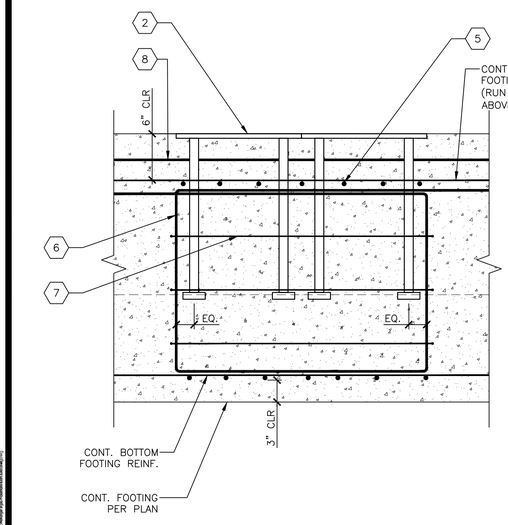
SCALE: 3" = 1'-0" | 3

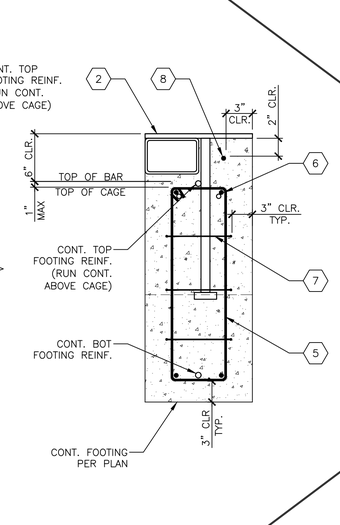


OPTIONAL CAST-IN-PLACE ANCHOR BOLTS:
GRADE 36 (Fy=36 KSI) 1"Ø ALL-THREAD RODS w/ DOUBLE NUTS OR SINGLE TACK WELDED NUT ARE ACCEPTABLE IN LIEU OF ASTM F1554 GR. 36 HEX HEAD BOLTS.

EMBEDDED ANCHOR DETAIL

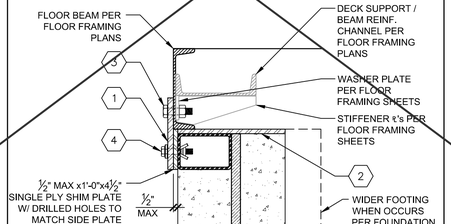
SCALE: 1-1/2" = 1'-0" | 5





EMBEDDED ANCHOR REINFORCEMENT DETAIL

SCALE: 1-1/2" = 1'-0" | 12



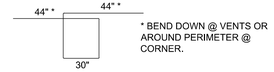
OPT. SHIM @ TOP

SCALE: 1-1/2" = 1'-0" | 8

NOT USED

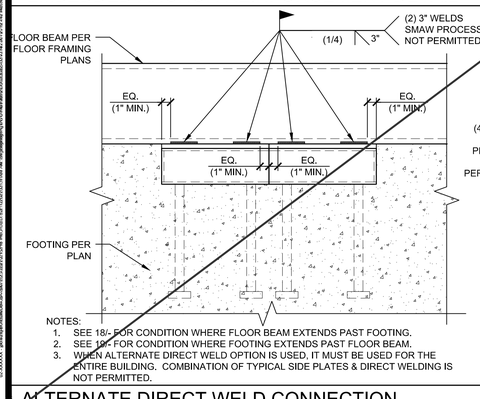
9

1. ⅝"x8"x1'-0" (50 KSI) SIDE PLATE. LOCATION PER PLAN - SEE 3/-
2. (2) EMBEDDED ANCHORS. LOCATION PER PLAN - SEE 5/-
3. (3) ¾"Ø M.B. THRU-BOLTED THROUGH SIDE ℄ & FLOOR BEAM w/ 13/16"Ø HOLES - SEE 8/- FOR OPTIONAL SHIM DETAIL.
4. (3) ⅝"Ø LHBM16 "HOLLO-BOLT" EXPANSION BOLTS PER ICC ESR-3330 THROUGH SIDE ℄ INTO THE HSS OF THE EMBEDDED ANCHOR w/ 1 1/16"Ø HOLES
   - SEE GENERAL NOTES FOR SPECS. & INSTALLATION REQUIREMENTS.
   - SEE 13/- FOR OPTIONAL SHIM DETAIL.
5. (7) #3 VERTICAL HOOPS PER 12/–, FORMED PER 5/S1.4 & SPACED AS SHOWN @ ANCHORS.
6. (2) #4 BENT BARS CENTERED ON ANCHORS - (1) EA. SIDE OF ANCHORS.



7. #3 HORIZONTAL HOOPS PER 12/-, FORMED PER 5/S1.4 & SPACED @ 6" O.C.
8. ADDITIONAL #5x8'-0" CENTERED @ ANCHOR. BEND DOWN @ VENTS OR AROUND PERIMETER @ CORNERS.

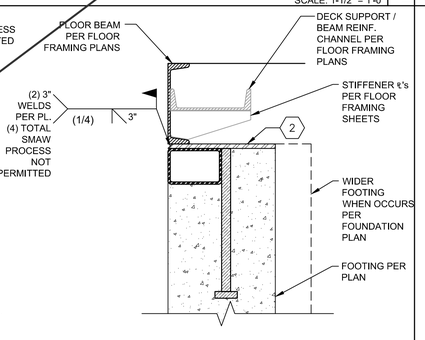
KEY NOTES



NOTES:
1. SEE 18/- FOR CONDITION WHERE FLOOR BEAM EXTENDS PAST FOOTING.
2. SEE 19/- FOR CONDITION WHERE FOOTING EXTENDS PAST FLOOR BEAM.
3. WHEN ALTERNATE DIRECT WELD OPTION IS USED, IT MUST BE USED FOR THE ENTIRE BUILDING. COMBINATION OF TYPICAL SIDE PLATES & DIRECT WELDING IS NOT PERMITTED.

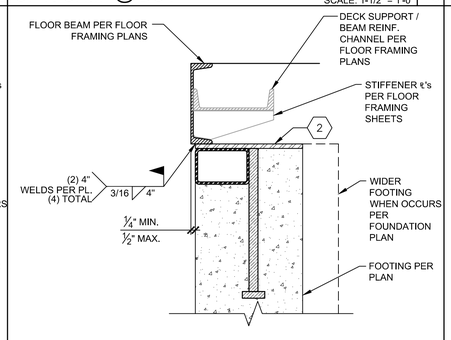
ALTERNATE DIRECT WELD CONNECTION

SCALE: 1-1/2" = 1'-0" | 17



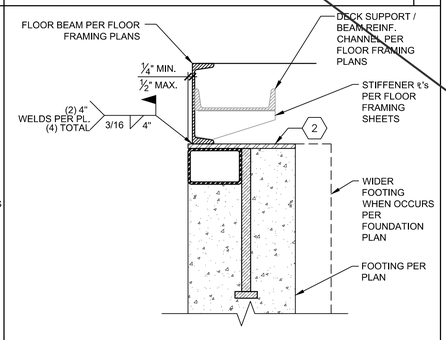
ALTERNATE DIRECT WELD @ OFFSET

SCALE: 1-1/2" = 1'-0" | 18

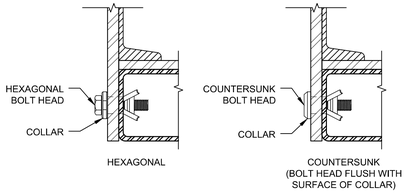


ALTERNATE DIRECT WELD @ OFFSET

SCALE: 1-1/2" = 1'-0" | 19



GENERAL NOTES



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
.
.
.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — ANDRAY PATRICK CRAWFORD — No. C12631 Ren. 3-31-23 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — MANNY D. FRANCISCO — No. P-3180 Exp. 08/31/22 — STRUCTURAL — STATE OF CALIFORNIA

21081

12/21/2021

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

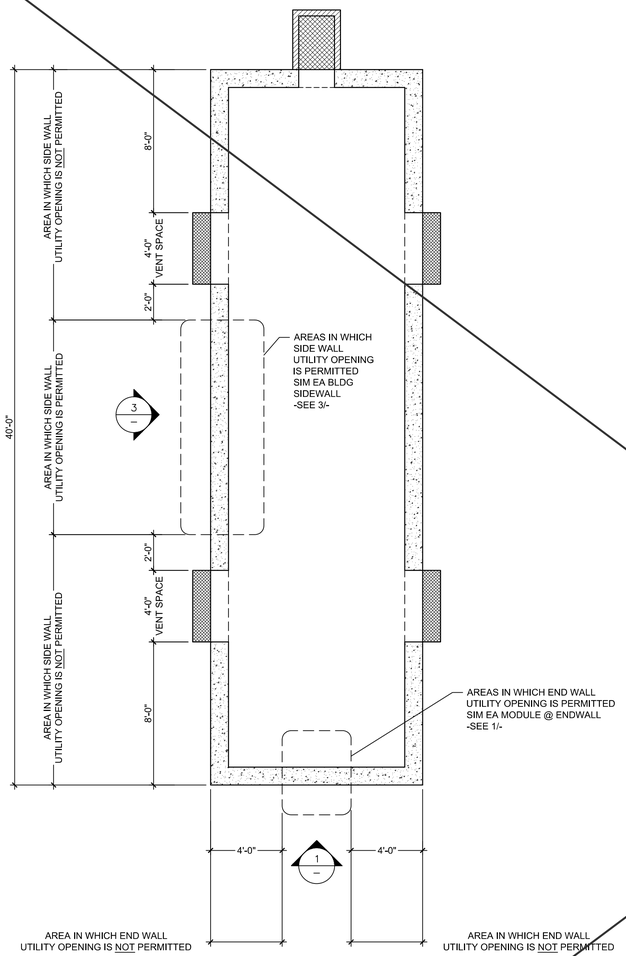
REVISIONS
1
2
3
4

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

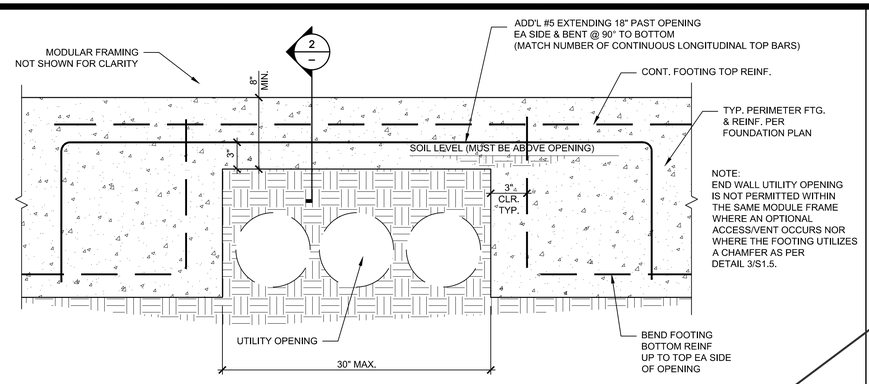
SHEET TITLE:
DOUBLE PLATE ANCHORAGE FOUNDATION DETAILS

SHEET NUMBER:
S1.6C

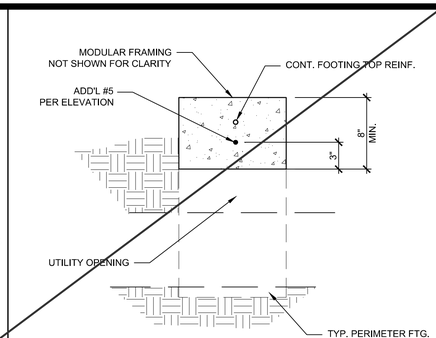
D:\XXXX_[d=dc8d7858f2c8c3dc1b6c1f2f3f2f3f2f3



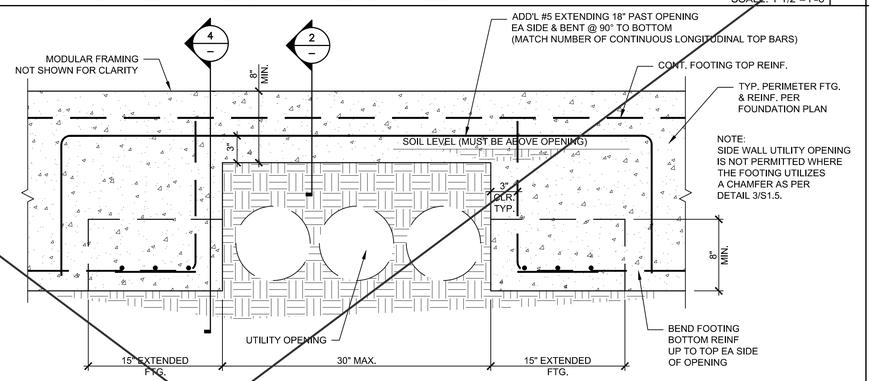
OPTIONAL UTILITY OPENINGS PLAN — SCALE: 1/4"=1'-0" — A



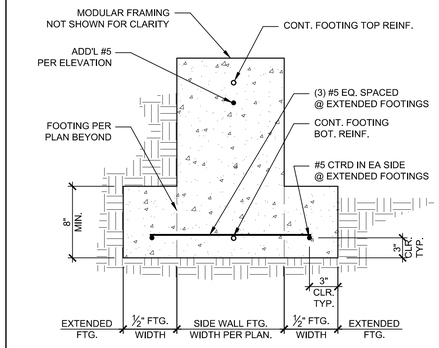
OPTIONAL UTILITY OPENINGS IN END WALL FOOTINGS — SCALE: 1 1/2"=1'-0" — 1



DETAIL — SCALE: 1 1/2"=1'-0" — 2



OPTIONAL UTILITY OPENINGS IN SIDE WALL FOOTINGS — SCALE: 1 1/2"=1'-0" — 3



DETAIL — SCALE: 1 1/2"=1'-0" — 4

NOT USED — 5

NOT USED — 6

NOT USED — 7

NOT USED — 8

NOT USED — 9

NOT USED — 10

NOT USED — 11

NOT USED — 12

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — ANTHONY PATRICK CARNEY — No. C12631 Ren. 3-31-23 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — MANNY D. FRIAS — No. 21380 Exp. 08/31/22 — STRUCTURAL — STATE OF CALIFORNIA

210811

12/21/2021

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

REVISIONS

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

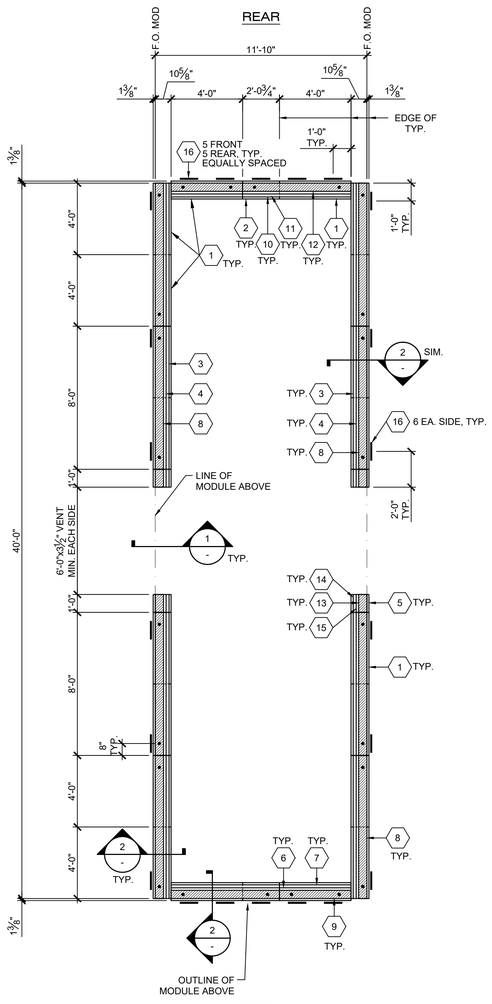
SHEET TITLE:

CONCRETE FOUNDATION OPTIONAL UTILITY OPENINGS IN FOOTINGS

SHEET NUMBER:

S1.7

G:\XXXX - [name&address]\[folder]\[sub-folder]\[DWG]\[name].dwg 08/18/2021 02:13:23 PM by [login] [path]\[PDF]\[date]\[DWG]\[name].pdf 03:21:56 PM by [login]



FRONT

ATTACHMENT SCHEDULE						
BUILDING SIZE	"D" GALV NAIL O.C. SPACING EA. ROW (IN) (40' WALLS) SEE 2/S2.0	"E" GALV NAIL O.C. SPACING EA. ROW (IN) (11'-10" WALLS) SEE S/S2.0	"H" EDGE NAIL (EN) SPACING (IN) (40'-0" WALLS) SEE 2/S2.0	"J" EDGE NAIL (EN) SPACING (IN) (11'-10" WALLS) SEE 2/S2.0	"K" # OF ALT SHEAR ₹'S (40' WALLS) EVENLY SPACED SEE 4/S2.0	"L" # OF ALT SHEAR ₹'S (11'-10" WALLS) EVENLY SPACED SEE 4/S2.0
12'x40'	8	3	6	3	5/SIDE	5/SIDE

WOOD FOUNDATION PLAN (PLYWOOD FLOOR) 100 PSF LIVE LOAD

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

ON SOIL:
1"Ø STANDARD WEIGHT (1.315 ACTUAL O.D.) HOT DIPPED GALV. PIPE w/ 12" MIN. PENETRATION MEASURED VERTICALLY BELOW SOIL SURFACE @ 10'-0" O.C., MIN. 2 EA. 2x ₹. DRILL SILL 1⅝"Ø MAX. PIPE MAY BE DRIVEN MAX 45° ANGLE TO VERTICAL.

ON A/C PAVING:
1"Ø STANDARD WEIGHT (1.315 ACTUAL O.C.) HOT DIPPED GALV. PIPE w/ 12" MIN. PENETRATION MEASURED VERTICALLY BELOW PAVING SURFACE @ 10'-0" O.C., MIN. 2 EA 2x ₹. DRILL SILL 1⅝"Ø MAX.

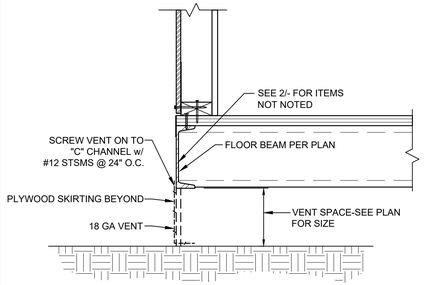
ON CONC PAVING:
1"Ø STANDARD WEIGHT (1.315 ACTUAL O.D.) HOT DIPPED GALV. PIPE w/ 12" MIN. PENETRATION MEASURED VERTICALLY BELOW PAVING SURFACE @ 10'-0" O.C., MIN. 2 EA. 2x ₹. DRILL SILL 1⅝"Ø MAX.
ALT: Ø PER SCHEDULE SIMPSON SS (STAINLESS STEEL) STRONG-BOLT 2'S THRU SILL ₹ w/ MIN. CONC. EMBEDMENT PER SCHEDULE BELOW
(PROVIDE A MINIMUM OF 2 BOLTS AT 2x PLATE LESS THAN 5'-0" AND 4 BOLTS AT 2x PLATE LARGER THAN 5'-0").
ANCHOR BOLTS SHALL BE CENTERED ON THE 2x PLATES AND LOCATED NO CLOSER THAN 4" FROM THE END OF THE PLATES.

SIMPSON SS STRONG-BOLT 2 O.C. SPACING SCHEDULE (IN.)		
BUILDING SIZE	MAX. LONGITUDINAL SPACING @ 40' SIDEWALLS	MAX. TRANSVERSE SPACING @ 11'-10" END WALLS
12'x40'	35" O.C.	12" O.C.

ANCHOR TYPE	SIMPSON SS STRONG-BOLT 2 ICC ESR-3037
ANCHOR SIZE (IN.)	½"Ø
MIN. CONC. THICKNESS (IN.)	4"
MIN. NOMINAL EMBED (IN.)	2¾"
MIN. HOLE DEPTH (IN.)	3"
MIN. CONC. EDGE DISTANCE - ANY DIRECTION (IN.)	9"
INSTALLATION TORQUE (FT-LB)	60

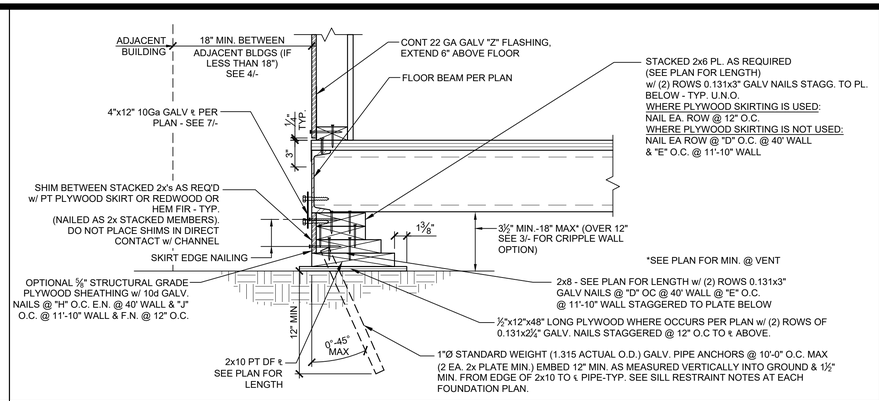
1. TORQUE TEST PER CBC 1910A.5 TORQUE TEST - MANUFACTURER'S RECOMMENDED INSTALLATION TORQUE AS APPROVED IN AN ICC-ESR PER C.B.C 1910A.5

SILL RESTRAINT



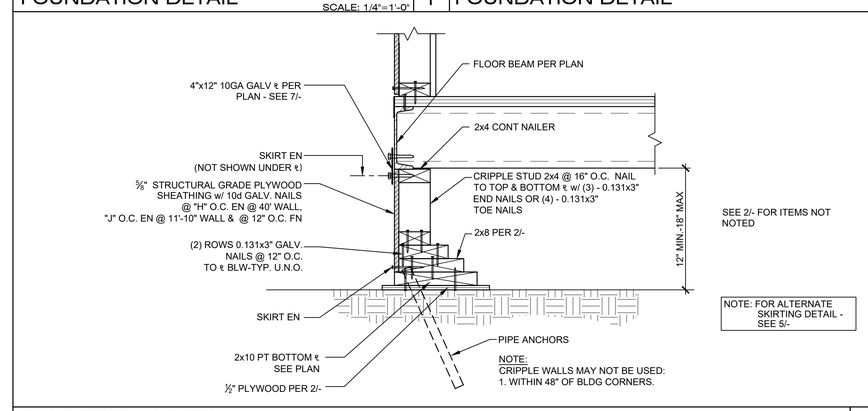
FOUNDATION DETAIL

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



FOUNDATION DETAIL

SCALE: 1/4"=1'-0" | 2

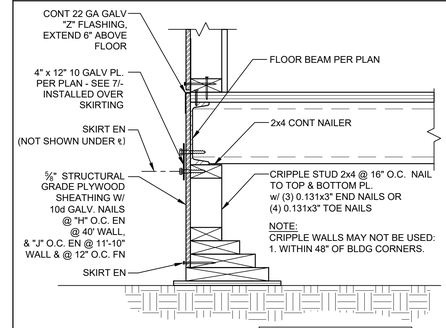


FOUNDATION DETAIL

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

FOUNDATION DETAIL

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



ALTERNATE SKIRTING DETAIL

SCALE: 1/4"=1'-0" | 5

1. TOP OF WOOD PADS TO BE LEVEL.
2. DO NOT INSTALL BUILDINGS IN AREAS OF WATER LINES.
3. SITE TO BE GRADED TO PREVENT WATER PONDING BENEATH THE STRUCTURE.
4. FOUNDATION WOOD TO BE CUT PERPENDICULAR TO THE FACE GRAIN.
5. PER THE CONTRACT OF THIS PROJECT- THE BUILDING PAD MUST BE A MINIMUM OF 38'-0" FRONT TO REAR, BUILDING WIDTH PLUS 6'-0" SIDE TO SIDE AND SHALL NOT EXCEED 6" OUT OF LEVEL IN ANY DIRECTION.
6. PROJECT ARCHITECT SHOULD VERIFY THE NET AREA OF THE VENT COVER BE EQUAL TO OR LARGER THAN THE VENT AREA REQUIRED SHOWN ON THE TABLE.
7. VENT NET AREA REQUIRED (NFA) IS BASED ON A 1:150 VENTILATION RATIO OF THE NOMINAL BUILDING FLOOR AREA. VENT NFA PROVIDED IS THE ACTUAL VENT GROSS OPEN AREA WITH A MINIMUM REDUCTION PERCENTAGE OF 73% DUE TO THE VENT COVER.

SHEET NOTES

FILLER ACCESS HOLE DETAIL

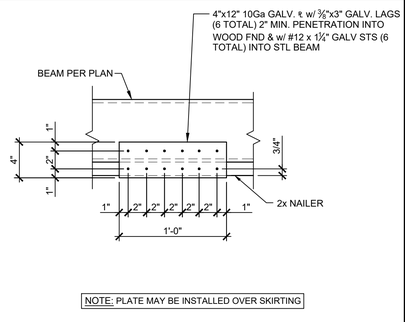
SCALE: 1/4"=1'-0" | 6

FOUNDATIONS:
ALL FOUNDATION MATERIALS IN CONTACT WITH THE GROUND SHALL BE PRESSURE TREATED OR REDWOOD EXCEPT SHIMS MAY BE REDWOOD, HEM FIR OR CEDAR. PRESSURE TREATED DOUGLAS FIR, HEM FIR, PLYWOOD ETC. SHALL BE VERIFIED BY A CERTIFICATE OF TREATMENT STATING: "THE MATERIAL IN THIS UNIT WAS TREATED PER 2019 CALIFORNIA BUILDING CODE. ALL MATERIAL FOR USE IN GROUND CONTACT SHALL BE STAMPED "FOR GROUND CONTACT" (U1 & T1). ALL MATERIAL NOT USED IN GROUND CONTACT SHALL BE HF#2 OR DF#2 "FOR ABOVE GROUND USE." THE IN-PLANT INSPECTOR SHALL VERIFY THAT ALL PRESSURE TREATED FOUNDATION MATERIAL IS CUT FROM AWPA STAMPED STOCK AND THAT ALL CUTS AND HOLES ARE RETREATED PER SPECIFICATIONS. U1 AND T1 MATERIAL SHALL BE BANDED SEPARATELY FOR SHIPMENT TO THE JOB SITE. THE IN-PLANT INSPECTOR'S VERIFICATION OF EACH BANDED UNIT SHALL BE ATTACHED TO THE MATERIAL. CONCRETE OR CONCRETE BLOCK FOUNDATIONS ARE NOT ALLOWED. THE FOOTING DESIGN SHALL PROVIDE FOR SHIMS AND BLOCKS NECESSARY TO PERMIT INSTALLATION ON SITES NOT LEVEL, BUT WITHIN TOLERANCE ALLOWED. INSTALLATION SHALL BE PERMITTED ON EITHER SOIL, CONCRETE OR A/C PAVING, HAVING SUITABLE DESIGN BEARING CAPACITY. THE BUILDINGS SHALL BE SECURELY FASTENED TO THE FOUNDATIONS. THE FOUNDATIONS AND THE METHOD OF FASTENING SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT AND DSA. PADS SHALL BE DESIGNED FOR A MAXIMUM OF 1000 PSF LOAD ON THE SOIL. PADS SHALL NOT BE PLACED ON TURF.

A VAPOR RETARDING MOISTURE BARRIER SHALL BE INSTALLED UNDER THE FLOOR WHEN THE BUILDING IS INSTALLED LESS THAN 12" ABOVE THE SOIL. A BARRIER IS NOT REQUIRED AT HEIGHT IF THE BUILDING IS INSTALLED OVER CONCRETE (INCLUDING A RAT SLAB) OR A/C/ PAVING.

FOUNDATION DETAIL

SCALE: 1/4"=1'-0" | 7



NOTE: PLATE MAY BE INSTALLED OVER SKIRTING

1. ½"x12" WIDE x 48" LONG P.T. STRUCTURAL PLYWOOD w/ FACE GRAIN IN SHORT DIRECTION (CDX PLYWOOD)
2. ½"x12" WIDE x 24¾" LONG P.T. STRUCTURAL PLYWOOD w/ FACE GRAIN IN SHORT DIRECTION (CDX PLYWOOD)
3. 2x10x8'-0" LONG ₹
4. 2x8x8'-0" LONG ₹
5. ½"x12" WIDE x 12" LONG P.T. STRUCTURAL PLYWOOD w/ FACE GRAIN IN SHORT DIRECTION (CDX PLWOOD)
6. 2x8x4'-0" LONG ₹
7. 2x10x4'-0" LONG ₹
8. MULTIPLE 2x6x8'-0" LONG NAILER AS REQ'D FOR HEIGHT MULTIPLE 2x6x4'-0" LONG NAILER
9. AS REQ'D FOR HEIGHT
10. 2x10x6'-3/4" LONG ₹
11. 2x8x6'-3/4" LONG ₹
12. MULTIPLE 2x6x6'-3/4" LONG NAILER AS REQ'D FOR HEIGHT
13. MULTIPLE 2x6x1'-0" LONG NAILER AS REQ'D FOR HEIGHT
14. 2x10x1'-0" LONG ₹
15. 2x8x1'-0" LONG ₹
16. 4"x12"x10 GA. ₹ PER 2/-
- 1"Ø GALVANIZED PIPE LOCATIONS - TYPICAL.

KEY NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

SITE SPECIFIC PROJECT NAME
.
.
.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — REGINALD PATRICK CONLEY — No. C12631 Ren. 3-31-23 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — MANNY D. FRIAS — No. 31380 — STRUCTURAL — STATE OF CALIFORNIA

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

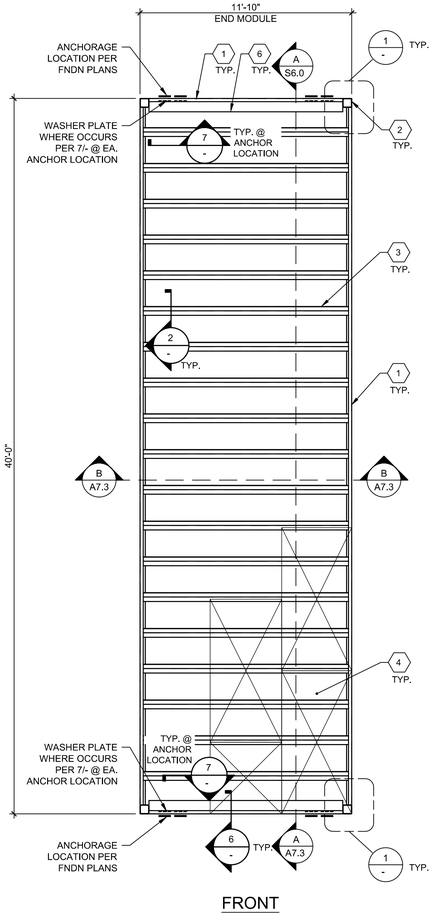
REVISIONS
1
2
3
4

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

SHEET TITLE:
WOOD FOUNDATION PLAN & DETAILS
- PLYWOOD FLOORS ONLY
- 100 PSF MAX FLOOR L.L.

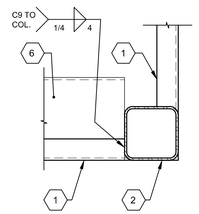
SHEET NUMBER:
S2.0

02.XXX.XX - [PATH]\[DATE]\[PLAN-SET-NAME]\[SHEET-NAME].dwg

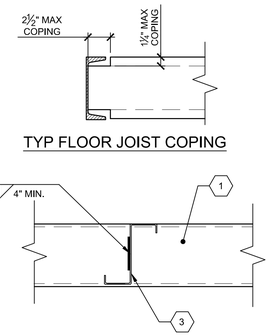


FRONT

FRAMING PLAN (PLYWOOD FLOOR) SCALE : 1/4" = 1'-0" | A



TYP. FLOOR BEAMS CONNECTION SCALE : 3" = 1'-0" | 1



TYP FLOOR JOIST COPING

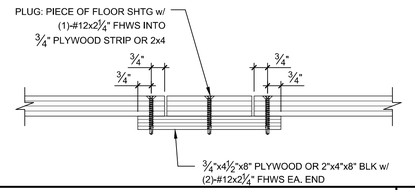
TYP. JOIST ATTACHMENT TO BEAM SCALE : 3" = 1'-0" | 2

1. FLOOR BEAM PER SHEET S5.0. USE SINGLE SIZE CHANNEL THROUGHOUT FLOOR SYSTEM.
2. HSS COLUMN PER SHEET S5.0
3. FLOOR JOIST - SEE SCHEDULE
4. 1⅛" T&G PLYWOOD FLOOR SHTG STURDI-I-FLOOR 48" O.C. SPAN RATING EXP. 1 CONFORMING TO PS 1-09, 2 SPANS MIN. OPTION: UNI-FLOOR BY PITTSBURGH TESTING LAB CONFORMING TO PS 1-09. STAGGER SHEETS 48" O.C. AS SHOWN w/ FACE GRAIN PERPENDICULAR TO FLOOR JOISTS. FASTEN PER SCHEDULES.
5. NOT USED
6. C9x13.4 TRANSVERSE FLOOR BEAM REINFORCING CHANNEL PER DETAIL 6/-. C9 MAY HAVE 3"Ø MAX HOLES THRU WEB WITHOUT WEB REINFORCEMENT PER THE FOLLOWING:
   1. HOLES MUST BE CENTERED ON WEB.
   2. MULTIPLE HOLES MUST BE SPACED A MIN. OF 24" APART.
   3. HOLES MUST BE 24" MIN. FROM INSIDE FACE OF COLUMNS.

KEY NOTES

1. NOT USED
2. THE MATERIAL THICKNESS OF LIGHT GAUGE STRUCTURAL MEMBERS, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED ON SHEET S0.0. THE MATERIAL GAUGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.
3. TEKS SCREWS PER ICC ESR-1976.
4. ET&F PINS PER IAPMO REPORT ER-335

GENERAL NOTES



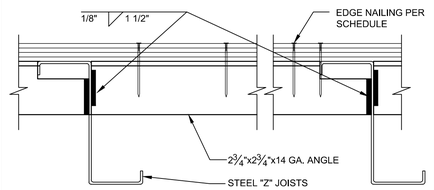
NOT USED | 3

TYP. ACCESS HOLE FILLER SCALE : 3" = 1'-0" | 4

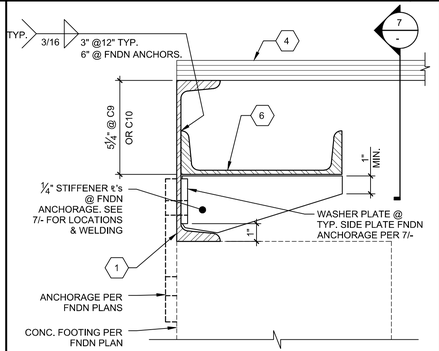
FLOOR JOIST SCHEDULE		
LIVE LOAD PSF	14 GA. JOIST	12 GA. JOIST
☐ 50 PSF	24" O.C.	24" O.C.
☒ 50+15 PSF	24" O.C.	24" O.C.
☐ 100 PSF	24" O.C.	24" O.C.

NOTE: FOR SECTION PROPERTIES - SEE S0.0

FLOOR JOISTS SCHEDULE



OPTIONAL BLOCKING ANGLE ATTACHMENT SCALE : 3" = 1'-0" | 5



TYP. TRANSVERSE FLOOR BEAM REINRCING (NOT REQ'D LONGITUDINAL FLOOR BEAMS) SCALE : 3" = 1'-0" | 6

NOT USED

TYP. FASTENER SPACING SCHEDULE		
BOUNDARY FASTENING*	EDGE FASTENING	FIELD FASTENING
#10 OR #12x2¼" SDSTS	0.144"Øx2" ET&F PINS	0.144"Øx2" ET&F PINS
6" O.C.	6" O.C.	12" O.C.

*BOUNDARY FASTENING IS APPLIED TO PERIMETER OF ALL MODULES ALONG FRAME LINES

NOTE: SCHEDULE APPLIES TO ALL FLOOR LIVE LOADS

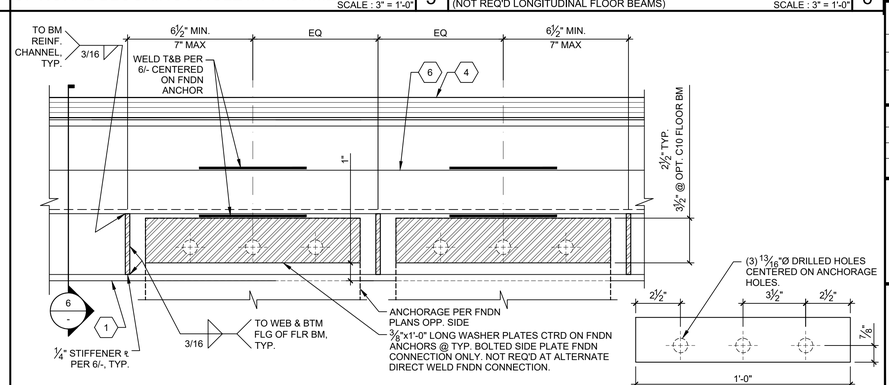
FASTENING SPACING SCHEDULE

ALT. FASTENER SPACING SCHEDULE		
BOUNDARY FASTENING*	EDGE FASTENING	FIELD FASTENING
#10 OR #12x2¼" SDSTS	#10 OR #12x2¼" SDSTS	#10 OR #12x2¼" SDSTS
6" O.C.	6" O.C.	12" O.C.

*BOUNDARY FASTENING IS APPLIED TO PERIMETER OF ALL MODULES ALONG FRAME LINES

NOTE: SCHEDULE APPLIES TO ALL FLOOR LIVE LOADS

ALT. FASTENING SPACING SCHEDULE



TYP. REINFORCED FLOOR FRAMING @ FOUNDATION ANCHORAGE SCALE : 3" = 1'-0" | 7

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — WAYNE PATRICK GRAHAM — No. C12631 Ren. 3-31-23 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — MANNY D. FRANCO — No. 21380 Exp. 08/31/22 — STRUCTURAL — STATE OF CALIFORNIA — 21081

12/21/2021

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

REVISIONS

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

SHEET TITLE:

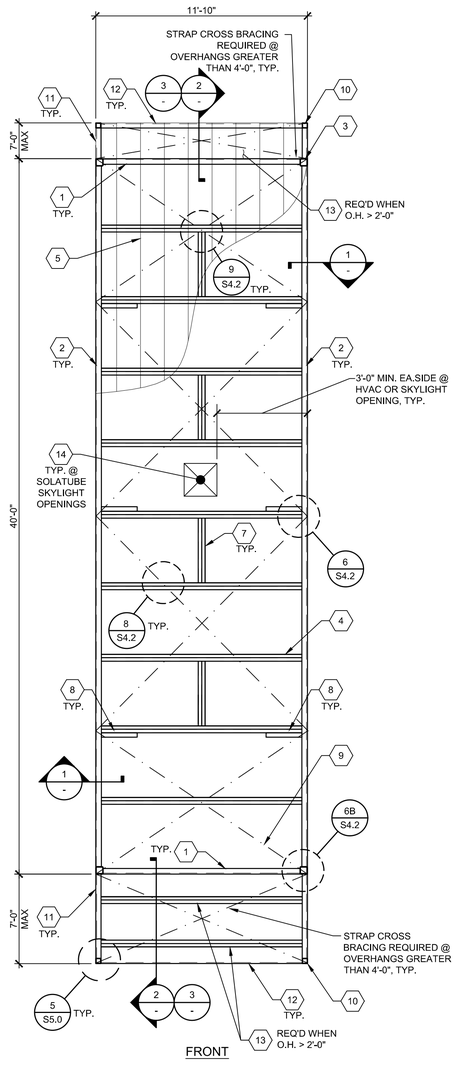
FLOOR FRAMING PLAN & DETAILS FOR PLYWOOD FLOOR

SHEET NUMBER:

S3.0

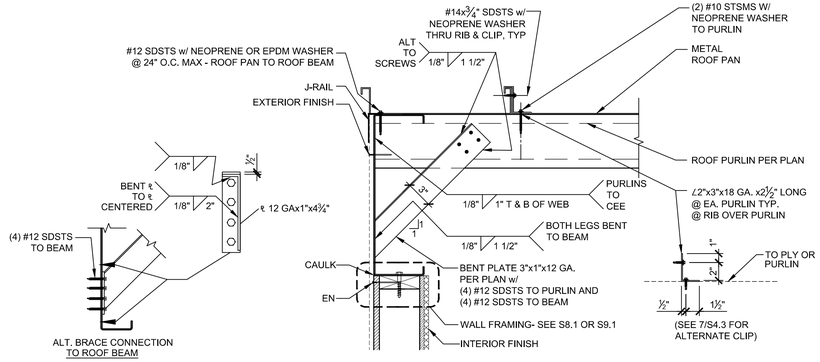
QJ-XXXX-20-ADD-REMOVE-DUPLEX-20210203072917.RVT 2/3/2021 7:29:17 AM \\Sf2fileserver\Projects\2020\QJ-XXXX-20-ADD-REMOVE-DUPLEX\QJ-XXXX-20-ARCH.rvt

REAR

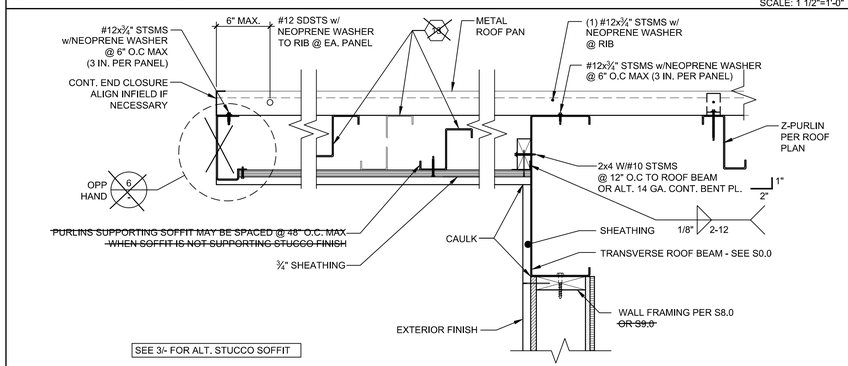


FRONT

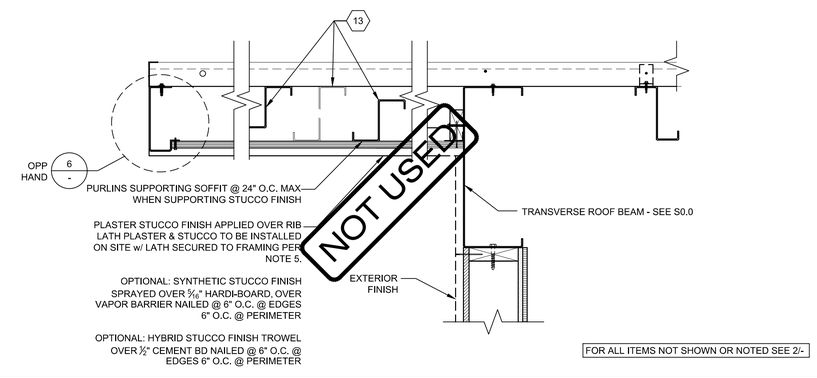
TYPICAL ROOF FRAMING LAYOUT — SCALE: 1/4"=1'-0" — A



SIDE WALL TO ROOM BEAM DETAIL — SCALE: 1 1/2"=1'-0" — 1



OVERHANG DETAIL — SCALE: 1 1/2"=1'-0" — 2



ALTERNATE OVERHANG DETAIL w/ STUCCO SOFFIT — SCALE: 1 1/2"=1'-0" — 3

NOT USED — 4

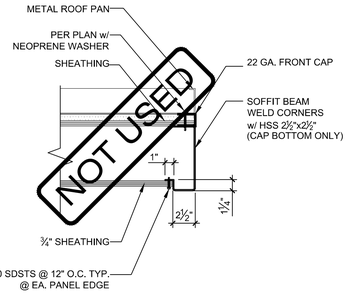
NOT USED — 5

1. TRANSVERSE ROOF BEAM PER SHEET S5.0.
2. LONGITUDINAL ROOF BEAM PER SHEET S5.0.
3. HSS COLUMN PER SHEET S5.0.
4. ROOF PURLINS @ 48" O.C. MAX. -SEE SHEET S0.0
5. 20 GA. METAL ROOF PAN - SEE SHEET S0.0.
6. NOT USED
7. MID-SPAN PURLIN BLOCKING WELD TO ROOF PURLINS PER DETAIL 3/S4.2 BLOCKING IS REQUIRED AT PURLINS WITH DIAGONAL BEAM BRACING AT EXTERIOR SIDE WALLS PER (8) BELOW.
8. 3x1x12 GA. BENT PLATE DIAGONAL BRACE TO ROOF BEAM @ 8'-0" FROM HSS COLUMNS & @ MIDSPAN IF SINGLE PITCH OR (2) @ RIDGE IF DUAL PITCH PROVIDE PURLIN BLOCKING @ EACH BRACE ONLY PER (7) ABOVE.
9. 2"x16GA (GRADE 50) STEEL STRAP CROSS BRACING ALTERNATE: 3"x18GA (GRADE 50) STRAPS.
10. ~~2½" SQ. HSS SOFFIT COLUMN - SEE 5/S5.0.~~
11. ~~SOFFIT OUTRIGGER BEAM - SEE S0.0~~
12. ~~SOFFIT BEAM - SEE S0.0~~
13. ROOF PURLINS @ 48" O.C. MAX IN OVERHANGS - SEE S0.0. MAY BE ACHIEVED WITH FULL DEPTH PURLINS SUPPORTING ROOF SHEATHING & SOFFIT SHEATHING OR BY SEPARATE SMALLER JOISTS @ EACH LEVEL MAINTAINING MAX SPACING AT EACH LEVEL.
14. OPTIONAL 22" SQ. SOLATUBE SKYLIGHT OPENINGS, (4) SKYLIGHT OPENING PER MODULE MAX. LOCATE OPENINGS PER 15/S4.3.

KEY NOTES

1. THE MATERIAL THICKNESS OF LIGHT GAUGE STRUCTURAL MEMBERS, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED ON SHEET S0.0, THE MATERIAL GAGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.
2. SEE SHEET S8.0 ~~& S9.0~~ FOR TYP. SIDE WALL FRAMING.
3. SEE SHEET S8.0 ~~& S9.0~~ FOR TYP. END WALL FRAMING.
4. ALL FASTENERS THRU METAL ROOF PANEL SHALL BE INSTALLED w/ NEOPRENE WASHERS.
5. ~~FOR PLASTER STUCCO FINISH @ SOFFIT, LATH SHALL BE SECURED PER THE FOLLOWING (CBC 2507.3):~~
   ~~SECURE LATH TO ALTERNATE SUPPORTS WITH TIES CONSISTING OF A DOUBLE STRAND OF NO. 18 W & M GAGE GALVANIZED ANNEALED WIRE AT ONE EDGE OF EACH SHEET OF LATH. WIRE TIES SHALL BE INSTALLED NOT LESS THAN 3 INCHES (76MM) BACK FROM THE EDGE OF EACH SHEET AND SHALL BE LOOPED AROUND STRIPPING, OR ATTACHED TO A #8 SMS SCREW INTO EACH SIDE OF THE PURLIN - 2 INCHES (51MM) ABOVE THE BOTTOM OF THE PURLIN OR TO EACH END OF A #12 SMS DRIVEN HORIZONTALLY THROUGH THE PURLIN - 2 INCHES (51MM) ABOVE THE BOTTOM OF THE PURLIN AND THE ENDS OF THE WIRE SECURED TOGETHER WITH THREE TWISTS OF WIRE.~~

GENERAL NOTES



ENCLOSED SOFFIT DETAIL — SCALE: 1 1/2"=1'-0" — 6

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — ROBERT PATRICK GRAHAM — No. C12631 — Ren. 3-31-23 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — MANNY D. FRANCO — No. P-3180 — Exp. 08/31/22 — STRUCTURAL — STATE OF CALIFORNIA — 21081

12/21/2021

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

REVISIONS

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

SHEET TITLE:

ROOF FRAMING PLAN AND DETAILS CROSS BRACING OPTION

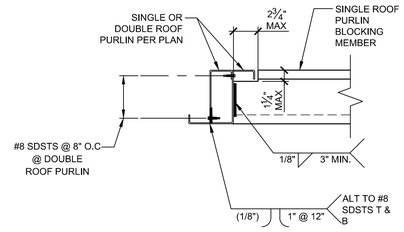
SHEET NUMBER:

S4.0

D:\XXXX-20\Architectural\Revit\Archive\2022\BETA\AR-RVT2022-122153-22.rvt

NOT USED 1

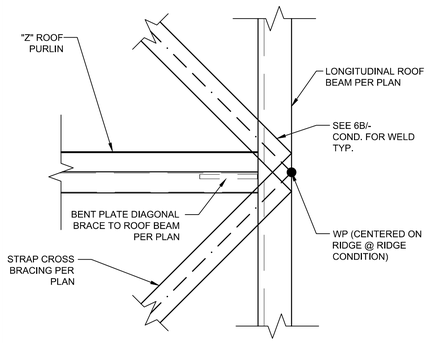
NOT USED 2



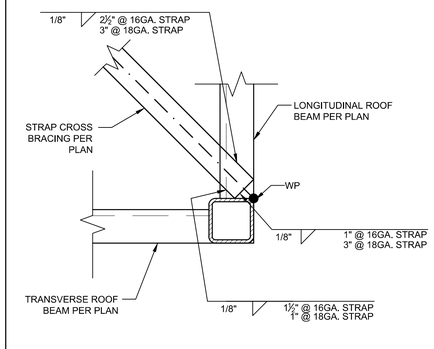
BLOCKING & DBL PURLIN CONNECTION DETAIL 3
SCALE: 1 1/2"=1'-0"

NOT USED 4

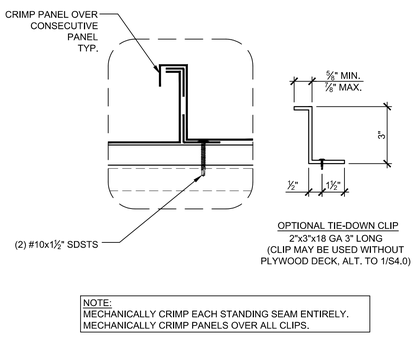
NOT USED 5



TYP. CROSS BRACING DETAILS 6
SCALE: 1 1/2"=1'-0"

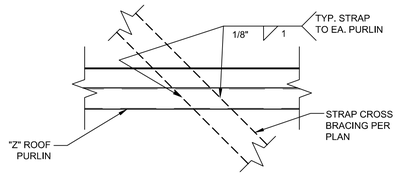


TYP. CROSS BRACING DETAILS 6B
SCALE: 1 1/2"=1'-0"

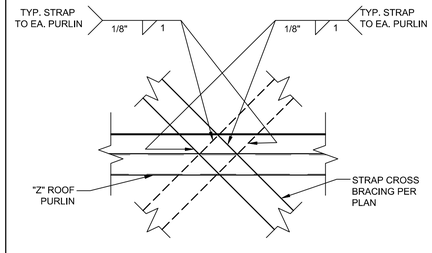


NOTE:
MECHANICALLY CRIMP EACH STANDING SEAM ENTIRELY.
MECHANICALLY CRIMP PANELS OVER ALL CLIPS.

ROOF DETAIL (OPTIONAL ROOF PAN CLIP) 7
SCALE: 1 1/2"=1'-0"



TYP. CROSS BRACING DETAILS 8
SCALE: 1 1/2"=1'-0"

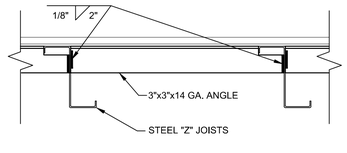


TYP. CROSS BRACING DETAILS 9
SCALE: 1 1/2"=1'-0"

NOT USED 10

NOT USED 11

1. THE MATERIAL THICKNESS OF LIGHT GAUGE STRUCTURAL MEMBERS, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED ON SHEET S0.0 THE MATERIAL GAGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.



TYP. ANGLE TO Z-PURLIN ATTACHMENT 12
SCALE: 1 1/2"=1'-0"

NOT USED 13

NOT USED 14

NOT USED 15

GENERAL NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
.
.
.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
PATRICK C. HIGHSMITH
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRANCO
No. 21080
Exp. 06/30/22
STRUCTURAL
STATE OF CALIFORNIA

12/21/2021
THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

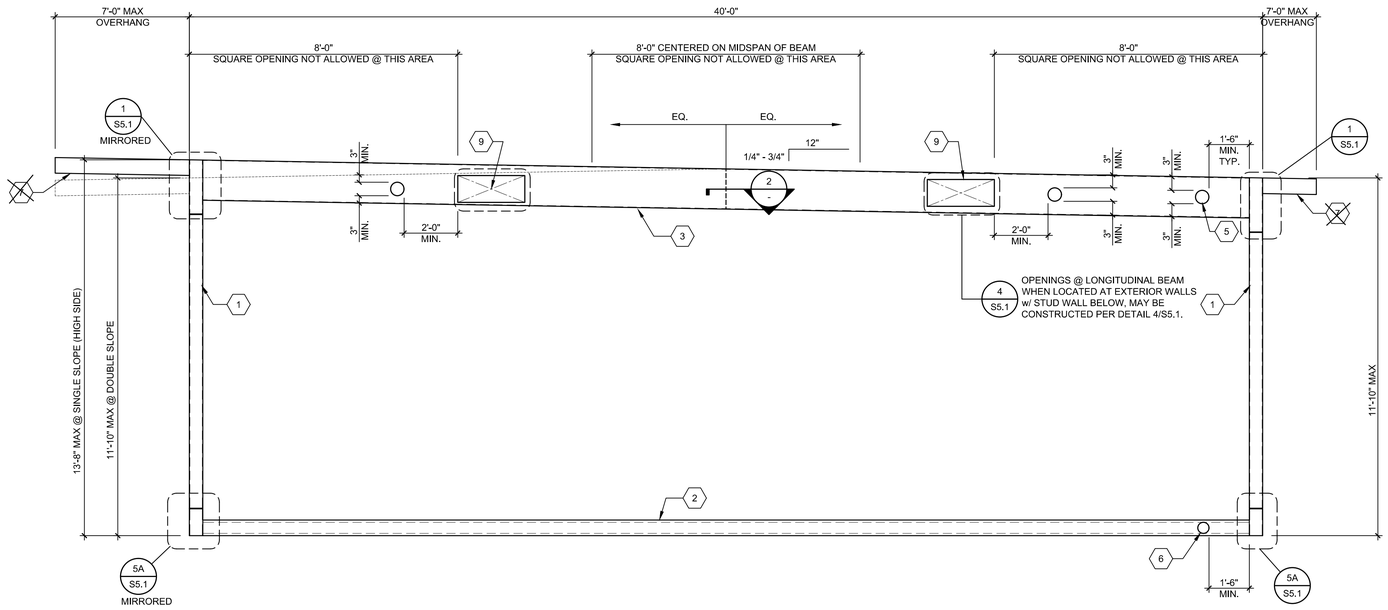
REVISIONS
1
2
3
4

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

SHEET TITLE:
ROOF FRAMING DETAILS
CROSS BRACING OPTION

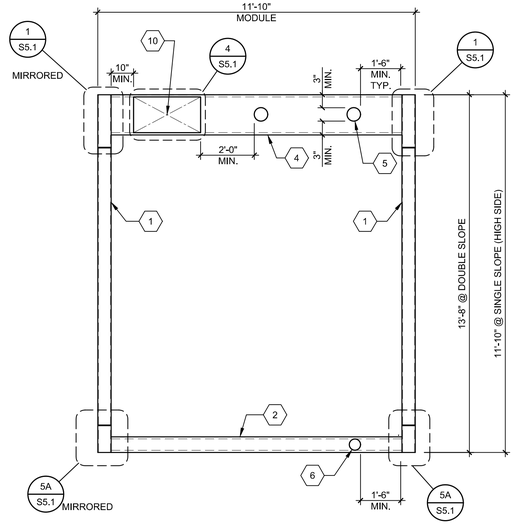
SHEET NUMBER:
S4.2

D:\XXXX - [Redacted]\S4.2.dwg 12/21/2021 8:38:45 AM PDT



TYPICAL LONGITUDINAL FRAME ELEVATION

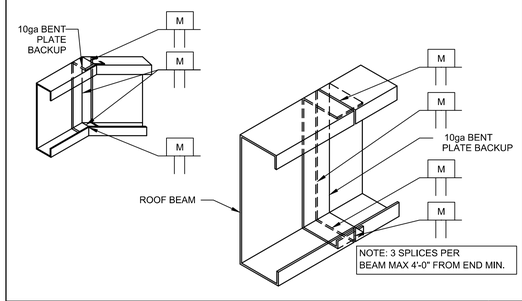
SCALE: 3/8"=1'-0"



TYPICAL TRANSVERSE FRAME ELEVATION

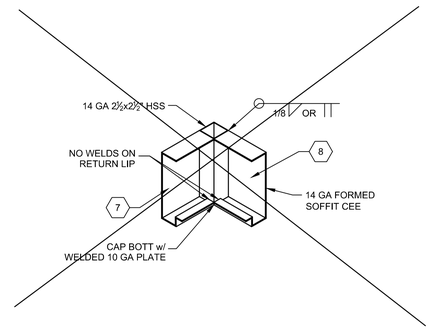
SCALE : 3/8"=1'-0" | 4

THE WELDING PROCEDURE QUALIFICATION TEST RECORD AND WELDING PROCEDURE SPECIFICATION FOR THIS WELD SHALL BE PREPARED IN ACCORDANCE WITH AWS D1.1-15, D1.3-08 & D1.8-16 AND SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND SUBMITTAL TO THE D.S.A. TYPICAL ALL DETAILS THIS SHEET. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCHTOUGHNESS OF 20 FT.-LBS AT ZERO DEGREES F, AS DETERMINED BY AWS CLASSIFICATION.



TYPICAL BEAM SLICE

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



OVERHANG CORNER DETAIL

SCALE: 1 1/2"=1'-0" | 5

NOT USED

6

KEY NOTES

1	HSS COLUMN - SEE SCHEDULE 3 & BELOW
2	FLOOR BEAM - SEE SCHEDULE 3 & BELOW
3	LONGITUDINAL ROOF BEAM PER 18/S0.0.
4	TRANSVERSE ROOF BEAM PER 18/S0.0.
5	6"Ø MAX OPENING IN WEB OF FLOOR BEAM WITHOUT WEB REINFORCEMENT MINIMUM SPACING OF HOLES @ 48" O.C., HOLES MAY OCCUR @ ANY LOCATION ALONG LENGTH OF ROOF BEAM EXCEPT AS NOTED OTHERWISE ON FRAMING ELEVATION. - SEE 6/S5.1 NOTE: IF HOLE IS 3" OR LESS, THEY MAY BE SPACED @ 24" O.C. MINIMUM
6	4"Ø MAX OPENING IN WEB OF FLOOR BEAM WITHOUT WEB REINFORCEMENT MINIMUM SPACING OF HOLES @ 48" O.C. HOLES MAY OCCUR @ ANY LOCATION ALONG LENGTH OF FLOOR BEAM EXCEPT AS NOTED OTHERWISE ON FRAMING ELEVATION - SEE 6/S5.1. NOTE: IF HOLE IS 2" OR LESS, THEY MAY BE SPACED @ 24" O.C. MINIMUM.
7	~~SOFFIT OUTRIGGER BEAM AT ENCLOSED OVERHANG - REFER TO DETAIL 1/S5.1 & S0.0 FOR PROPERTIES.~~
8	SOFFIT BEAM AT ENCLOSED OVERHANG - REFER TO DETAIL 1/S5.1 & S0.0 FOR PROPERTIES
9	LONGITUDINAL BEAM OPENING: REFER TO DETAIL 4/S5.1 FOR OPENING REINFORCEMENT (10"x30" MAX OPENING SIZE)
10	TRANSVERSE BEAM OPENING: REFER TO DETAIL 4/S5.1 FOR OPENING REINFORCEMENT (10"x30" MAX OPENING SIZE)

FRAME MEMBER SCHEDULE

3

FLOOR BEAMS		ALT. FLOOR BEAMS		COLUMNS	LONGITUDINAL ROOF BEAMS	TRANSVERSE ROOF BEAMS
PLYWOOD FLOOR	~~CONCRETE FLOOR~~	PLYWOOD FLOOR	~~CONCRETE FLOOR~~			
C9x20 (50 KSI)	~~C9x20 (50 KSI)~~	C10x15.3	~~C10x15.3~~	HSS 6x6x⅜ (ASTM A1085)	10 GA.	10 GA.

NOTE: SEE ALL SECTION PROPERTIES ON SHEET S0.0

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

. . .

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT ANTHONY PATRICK HIGH No. C12631 Ren. 3-31-23 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER MANNY D. FRANCO No. 21380 Exp. 08/31/22 STRUCTURAL STATE OF CALIFORNIA

12/21/2021

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

REVISIONS

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

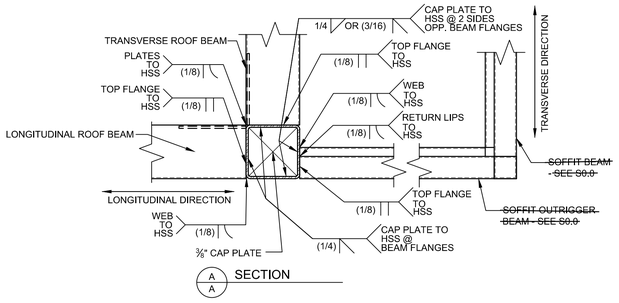
SHEET TITLE:

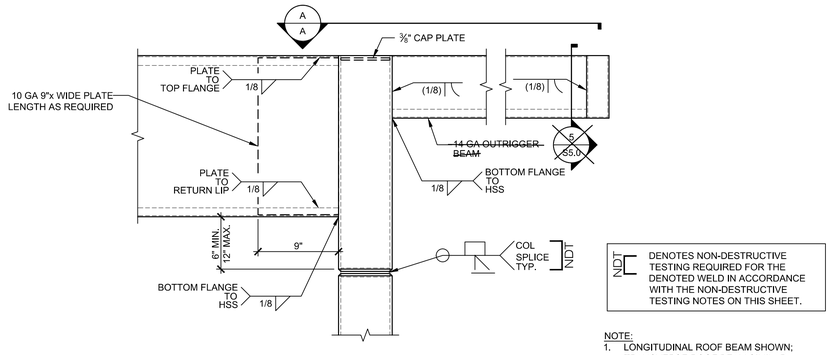
MOMENT FRAME ELEVATIONS & DETAILS

SHEET NUMBER:

S5.0

D:\XXXX - [redacted]\[redacted]\[redacted]\[





NDT DENOTES NON-DESTRUCTIVE TESTING REQUIRED FOR THE DENOTED WELD IN ACCORDANCE WITH THE NON-DESTRUCTIVE TESTING NOTES ON THIS SHEET.

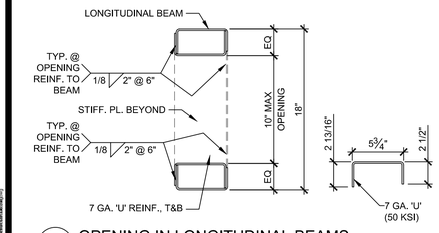
NOTE:
1. LONGITUDINAL ROOF BEAM SHOWN; TRANSVERSE ROOF BEAM SIMILAR

TYPICAL ROOF CHANNEL TO HSS DETAIL

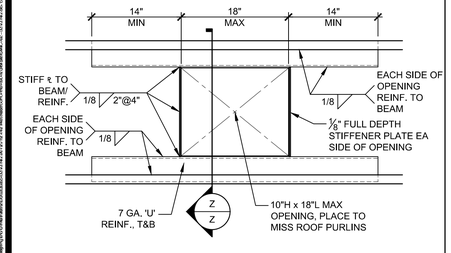
SCALE: 1 1/2"=1'-0" | 1

NOT USED

2



OPENING IN LONGITUDINAL BEAMS

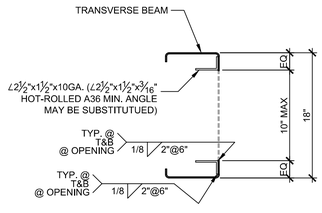


NOTES:

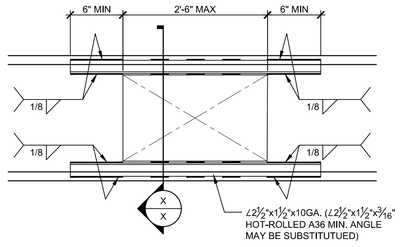
1. BEAM OPENING(S), LOCATED AT EXTERIOR WALLS w/ STUD WALL BELOW, MAY BE CONSTRUCTED PER DETAIL 4/S5.1.

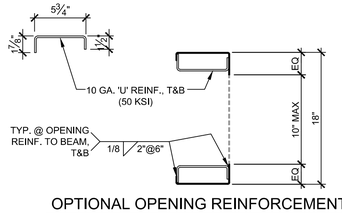
OPENING @ ROOF BEAMS (LONGITUDINAL BEAMS)

SCALE: 1 1/2"=1'-0" | 3



OPENING IN TRANSVERSE BEAMS

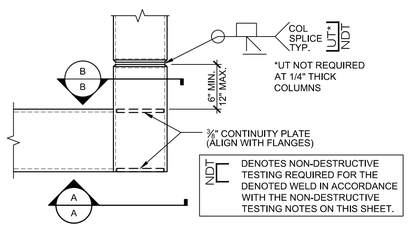


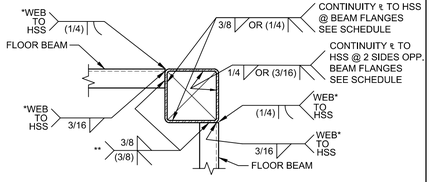


OPTIONAL OPENING REINFORCEMENT

OPENING @ ROOF BEAMS (TRANSVERSE BEAMS)

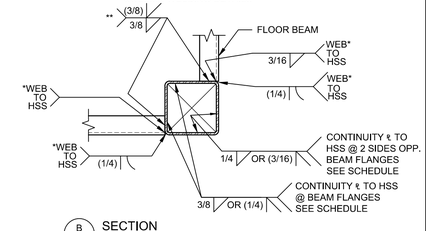
SCALE: 1 1/2"=1'-0" | 4





SECTION

* - SEE DETAIL 5B FOR ALT. BEAM TO COLUMN WELDING DETAILS



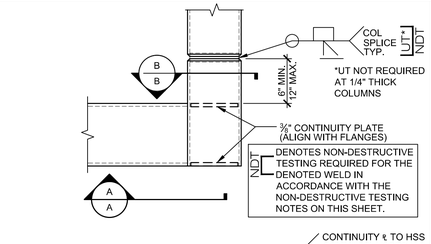
SECTION

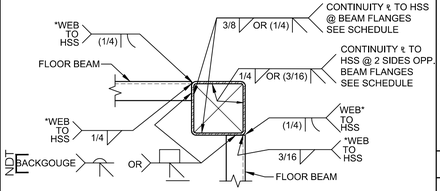
* - SEE DETAIL 5B FOR ALT. BEAM TO COLUMN WELDING DETAILS

** FULL PEN WELD ALTERNATE - DETAIL 5B,MAY BE USED AS AN ALTERNATIVE TO THE DOUBLE SIDED FLANGE-TO-COLUMN WELDS SHOWN. NDT

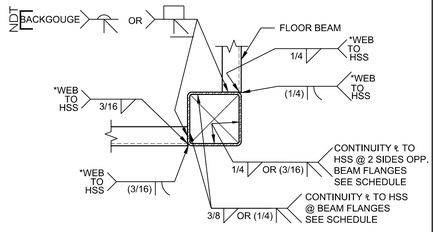
TYP. CORNER TO FLOOR BM DETAIL

SCALE: 1 1/2"=1'-0" | 5A





SECTION



SECTION

* FULL PEN WELD MAY BE USED AS AN ALTERNATIVE TO THE DOUBLE SIDED BEAM WEB-TO-COLUMN WELD SHOWN. NDT UT

NOT USED

5B

THE WELDING PROCEDURE QUALIFICATION TEST RECORD AND WELDING PROCEDURE SPECIFICATION FOR WELDS ON THIS SHEET SHALL BE PREPARED IN ACCORDANCE WITH AWS D1.1-15 (HOT-ROLLED), D1.3-08 (COLD-FORMED) & D1.8-16 AND SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND SUBMITTAL TO D.S.A. UPON REQUEST, ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT.-LBS AT ZERO DEGREES F, AS DETERMINED BY AWS CLASSIFICATION.

GENERAL NOTES

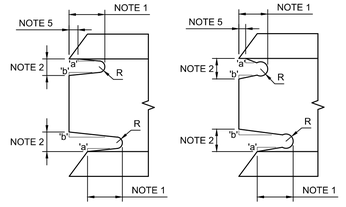
NON-DESTRUCTIVE TESTING OF COMPLETE JOINT PENETRATION GROVE WELDS AT THE MOMENT-RESISTING BEAM-TO-COLUMN CONNECTIONS SHALL COMPLY WITH AISC 341-16 CHAPTER J PER CBC 1705A.2.1.

1. WELDS SUBJECT TO THE REQUIREMENTS OF NON-DESTRUCTIVE TESTING ARE NOTED ON THESE DRAWINGS WITH THE SYMBOL: NDT
2. ALL WELDS DESIGNATED FOR NON-DESTRUCTIVE TESTING REQUIRE MAGNETIC PARTICLE TESTING (MT) TO BE PERFORMED ON 25% OF THOSE WELDS.
3. ULTRASONIC TESTING (UT) IS TO BE PERFORMED ON 100% OF WELDS DENOTED WITH THE SYMBOL UT, AND IS ONLY REQUIRED ON THOSE DESIGNATED WELDS.
4. ULTRASONIC TESTING (UT) IS ONLY REQUIRED WHERE THE THICKNESS OF THE COLUMN IS 5/16" OR GREATER. UT IS NOT REQUIRED WHERE THE COLUMN THICKNESS IS LESS THAN 5/16". MAGNETIC PARTICLE TESTING (MT) IS STILL REQUIRED.
5. ULTRASONIC TESTING (UT) IS NOT REQUIRED ON WELDS FROM STRUCTURAL STEEL CHANNEL BEAM FLANGES TO COLUMNS AS UT TESTING IS NOT APPROPRIATE FOR SECTIONS WITH VARYING DEPTHS. MAGNETIC PARTICLE TESTING (MT) IS STILL REQUIRED.

NON-DESTRUCTIVE TESTING NOTES

1. FILLER METALS SHALL CONFORM TO THE REQUIREMENTS OF THE AISC SEISMIC PROVISIONS.
2. WELDING PROCEDURES SHALL BE IN ACCORDANCE WITH THE AISC SEISMIC PROVISIONS.
3. QUALITY CONTROL AND QUALITY ASSURANCE SHALL BE IN ACCORDANCE WITH THE AISC SEISMIC PROVISIONS.
4. WELD ACCESS HOLES SHALL BE IN ACCORDANCE WITH AISC 360-16, SECTION J1.6, AND SHALL BE CONSTRUCTED PER THE FOLLOWING DETAILS & NOTES.

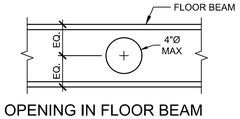
WELD ACCESS HOLE GEOMETRY



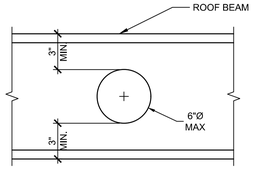
NOTES: THESE ARE TYPICAL DETAILS FOR JOINTS WELDED FROM ONE SIDE AGAINST STEEL BACKING WHERE WELD ACCESS HOLES ARE REQUIRED.

1) LENGTH: GREATER OF 1.5tw (WEB THICKNESS) OR 1-1/2 IN. (38 MM)
2) HEIGHT: GREATER OF 1.0tw OR 3/4 IN. (19 MM) BUT NEED NOT EXCEED 2 IN. (50 MM)
3) R: 3/8 IN. MIN. (10 MM). GRIND THE THERMALLY CUT SURFACES OF WELD ACCESS HOLES IN HEAVY SHAPES AS DEFINED IN SECTIONS A3.1(c) AND (d) OF AISC 360-16.
4) SLOPE 'a' FORMS A TRANSITION FROM THE WEB TO THE FLANGE. SLOPE 'b' MAY BE HORIZONTAL.
5) THE BOTTOM OF THE TOP FLANGE IS TO BE CONTOURED TO PERMIT THE TIGHT FIT OF BACKING BARS WHERE THEY ARE TO BE USED.

REQ. FOR FR. MOMENT CONNECTIONS



4" OPENING IN FLOOR BEAM



6" OPENING IN ROOF BEAM

OPENING IN BEAMS

SCALE: 1 1/2"=1'-0" | 6

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — BRADLEY PATRICK CLARK — No. C12631 Ren. 3-31-23 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — MANNY D. FRIAS — No. M 21180 Exp. 12/31/22 — STRUCTURAL — STATE OF CALIFORNIA

12/21/2021

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

REVISIONS

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

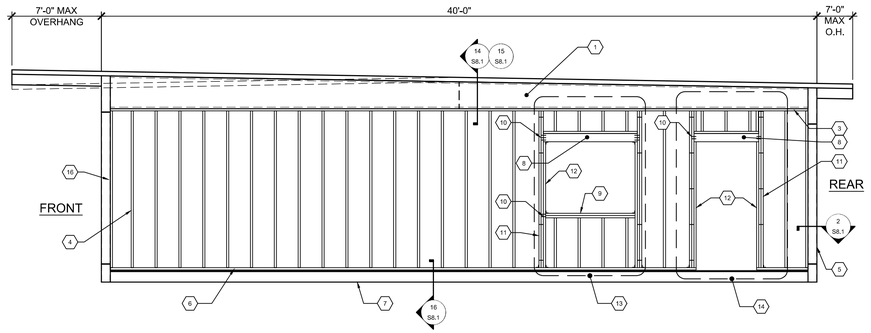
SHEET TITLE:

MOMENT FRAME CONNECTION DETAILS

SHEET NUMBER:

S5.1

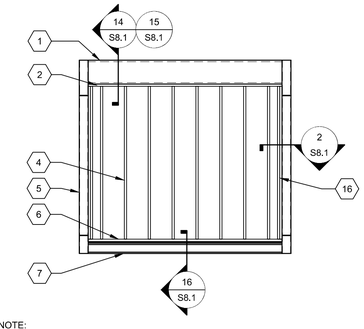
D:\XXXX\ 2d=4a8d5f8f0e0c2b-3d0-20220923163748 PM-PW$$$$-20220923163748 -M- file:///home/pw/pw/projects/PROFiles/Projects/2022/09/20220923-0012/M-20220923-0012.rvt



NOTE:
SEE S9.0 FOR ALTERNATE STEEL STUD WALL FRAMING.

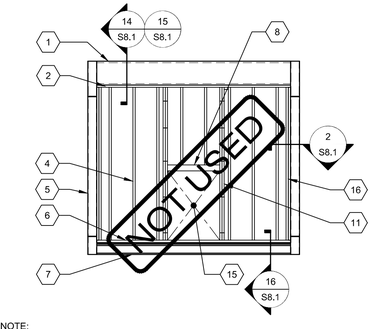
TYPICAL SIDE WALL FRAMING (MONO/DUAL PITCH)

SCALE: 3/8"=1'-0" A



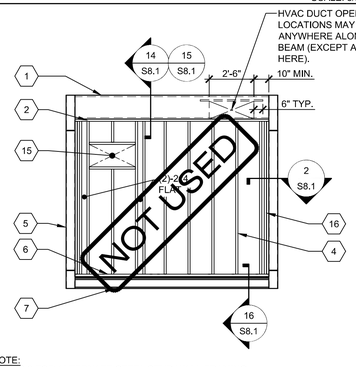
NOTE:
SEE S9.0 FOR ALTERNATE STEEL STUD WALL FRAMING.

TYP. END WALL FRAMING w/ NO OPENINGS SCALE: 1/4"=1'-0" 1



NOTE:
SEE S9.0 FOR ALTERNATE STEEL STUD WALL FRAMING.

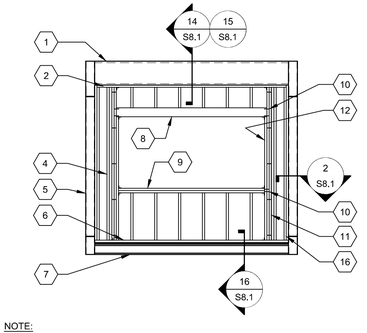
TYP. END WALL FRAMING w/ INDOOR HVAC UNIT (OPTIONAL) SCALE: 1/4"=1'-0" 2



NOTE:
SEE S9.0 FOR ALTERNATE STEEL STUD WALL FRAMING.

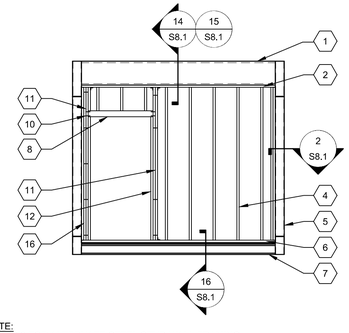
TYP. END WALL FRAMING w/ WALL HUNG HVAC UNIT (OPTIONAL) SCALE: 1/4"=1'-0" 3

EXTERIOR WALL FINISH/WALL STUD SCHEDULE



NOTE:
SEE S9.0 FOR ALTERNATE STEEL STUD WALL FRAMING.

TYPICAL END WALL FRAMING WINDOW SCALE: 1/4"=1'-0" 4



NOTE:
SEE S9.0 FOR ALTERNATE STEEL STUD WALL FRAMING.

TYPICAL END WALL FRAMING w/ DOOR SCALE: 1/4"=1'-0" 5

1. ROOF BEAM PER SHEET S5.0
2. 2x6 MIN. TOP PLATE - NO SPLICE
3. 2x6 MIN. TOP PLATE
4. 2x6 MIN. STUDS SPACED PER SCHEDULE W/(3) 0.131"Ø x3" END NAILS OR (4) 0.131"Ø x3" TOE NAILS T&B TO PLATES TYP.
5. HSS COLUMN PER SHEET S5.0
6. 2x6 MIN. BOTTOM PLATE - NO SPLICE (P.T. AT CONCRETE FLOORS)
6A. 2x6 MIN. BOTTOM PLATE (P.T. AT CONCRETE FLOORS)
7. PERIMETER FLOOR BEAM PER SHEET S5.0
8. HEADER PER OPENING SCHEDULE
9. WINDOW SILL PER OPENING SCHEDULE
10. END NAILS THROUGH KING STUD TO HEADER SILL PER OPENING SCHEDULE
11. KING STUDS PER OPENING SCHEDULE
12. 2x6 MIN. TRIMMER
13. OPTIONAL WINDOW OPENING FRAMING PER SCHEDULE (REFER TO 4/S8.0 FOR DETAILS AND FLOOR PLANS FOR LOCATIONS)
14. OPTIONAL DOOR OPENING FRAMING PER SCHEDULE (REFER TO 5/S8.0 FOR DETAILS AND FLOOR PLANS FOR LOCATIONS)
15. HVAC OPENING @ EXTERIOR WALL (600#MAX WT.) SEE DETAIL 3/S8.1 FOR HVAC ATTACHMENT - SEE DETAIL 3/S8.1 FOR HVAC ATTACHMENT
16. 2x DOUBLE NAILER

NOTE: SEE CARPENTRY NOTES SHEET N1.0 SECTION 6 FOR WOOD SPECIES & GRADE

KEY NOTES

EXTERIOR WALL SCHEDULE			
FINISH TYPE	WALL FINISH COMMENTS	STUD TYPE	STUD SPACING
⅞" PLYWOOD SHEATHING 303 CONFORMING TO PS1-09. VERTICAL GROOVES @ 8" O.C.	WALL FINISH PER A5.0 & A5.1	HEM FIR #2 OR DOUG FIR #2	16" O.C. MAX
~~⅜" HARDI-BOARD w/ SYNTHETIC STUCCO~~ OR ⅜" HARDI-LAP SIDING	WALL FINISH PER A5.4, A5.5, A5.6 & A5.7	~~HEM FIR #2~~ OR DOUG FIR #2	16" O.C. MAX
~~½" PLYWOOD SHEATHING CONFORMING TO PS1-09, APA RATED, 5 PLY 32/16", OR ⅞" OSB PANELS EXPOSURE 1 w/ ⅞" STUCCO~~	WALL FINISH PER A5.2 & A5.3; NAILING PER BLDG SECTIONS[1,2]	HEM FIR #2 OR DOUG FIR #2	16" O.C. MAX

FOOTNOTES

1. ALL NAILS IN EXTERIOR APPLICATIONS SHALL BE GALVANIZED.
2. TYPICAL PLYWOOD NAILING WHERE OCCURS: 0.131"Ø x2¼" GALV. NAILS @ 6" O.C. E.N. & 12" O.C. F.N. (ALL EDGES BLOCKED).

DOOR/WINDOW OPENING AT TYPICAL WALL (NO STUCCO)								
					HEADER TO KING STUD NAILING		WINDOW SILL TO KING STUD NAILING	
OPENING SIZE	HEADER	WINDOW SILL[2] (AS APPLICABLE)	KING STUDS[1]	KING STUD INTERNAIL SPACING	# END NAILS 1ST KING STUD TO HEADER[3] (0.131"Ø x3" NAILS)	# FACE NAILS KING STUD TO KING STUD @ HEADER (0.131"Ø x3" NAILS)	# END NAILS 1ST KING STUD TO WINDOW SILL[3] (0.131"Ø x3" NAILS)	# FACE NAILS KING STUD TO KING STUD @ WINDOW SILL (0.131"Ø x3" NAILS)
>8'-0" TO 10'-0"	6x6	(2) 2x6	(3) 2x6	0.131"Ø x3" NAILS @ 12" O.C. MAX STAGGERED	6	3	4	2
>6'-0" TO 8'-0"	6x6	(1) 2x6	(2) 2x6		5	3	3	2
>4'-0" TO 6'-0"	4x6 FLAT	(1) 2x6	(2) 2x6		4	2	3	2
4'-0" OR LESS	4x6 FLAT	(1) 2x6	(2) 2x6		4	2	3	2

~~DOOR/WINDOW OPENING AT STUCCO WALL~~								
					HEADER TO KING STUD NAILING		WINDOW SILL TO KING STUD NAILING	
OPENING SIZE	HEADER	WINDOW SILL[2] (AS APPLICABLE)	KING STUDS[1]	KING STUD INTERNAIL SPACING	# END NAILS 1ST KING STUD TO HEADER[3] (0.131"Ø x3" NAILS)	# FACE NAILS KING STUD TO KING STUD @ HEADER (0.131"Ø x3" NAILS)	# END NAILS 1ST KING STUD TO WINDOW SILL[3] (0.131"Ø x3" NAILS)	# FACE NAILS KING STUD TO KING STUD @ WINDOW SILL (0.131"Ø x3" NAILS)
>8'-0" TO 10'-0"	6x6	(2) 2x6	(3) 2x6	0.131"Ø x3" NAILS @ 12" O.C. MAX STAGGERED	6	3	4	2
>6'-0" TO 8'-0"	6x6	(2) 2x6	(3) 2x6		5	3	4	2
>4'-0" TO 6'-0"	4x6 FLAT	(1) 2x6	(2) 2x6		4	2	3	2
4'-0" OR LESS	4x6 FLAT	(1) 2x6	(2) 2x6		4	2	3	2

FOOTNOTES

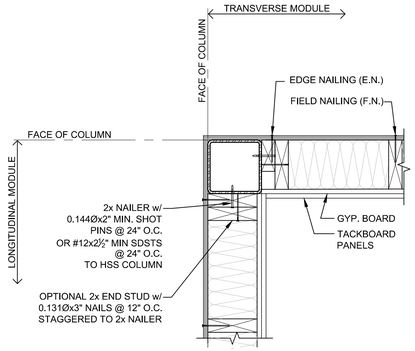
1. PROVIDE (2) SIMPSON A34 T&B OF KING STUDS TO PLATES FOR OPENINGS GREATER THAN 4'-0". PROVIDE (1) SIMPSON A34 T&B OF KING STUDS TO PLATES FOR OPENINGS 4'-0" OR LESS.
2. WHEN MORE THAN A SINGLE SILL PLATE IS REQUIRED PLATE(S) TO BE INSTALLED FLAT), INTERNAIL w/ 0.131"Ø x3" NAILS @ 12" O.C. STAGGERED.
3. TWO (2) END NAILS PER LAMINATION MINIMUM.

OPENING SCHEDULE

D:\XXXX_[jb-xx]\jb-[0]\[jb-[0]-[0]]\[0]\[0]\[0

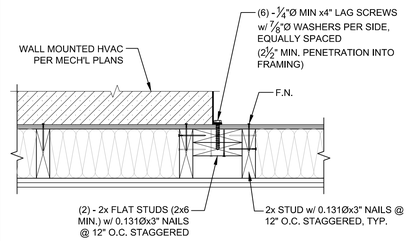
NOT USED

1



WALL TO COLUMN TYP. DETAIL @ CORNER
FOR COLUMN LOCATION REFER TO ARCH. DETAILS
SCALE: 1-1/2" = 1'-0"

2

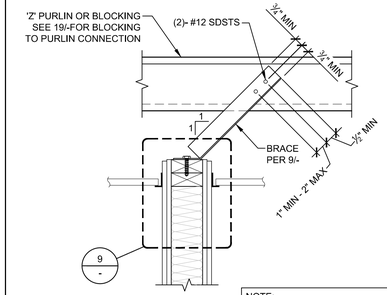


WALL HUNG HVAC ATTACHMENT DETAIL
SCALE: 1-1/2" = 1'-0"

3

NOT USED

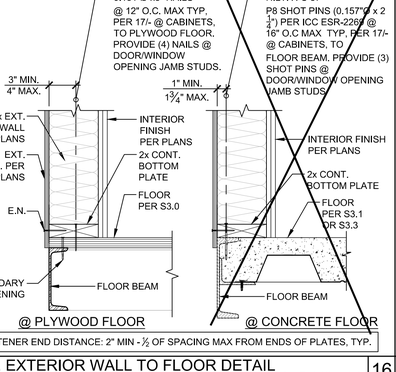
4



NOTE:
WALL MUST BE BRACED @ 8'-0" MAX BY EITHER AN INTERSECTING WALL OR WITH TOP PLATE BRACING TO ROOF FRAMING.

TYP. INTERIOR WALL BRACING
BRACE PARALLEL TO PURLINS
SCALE: 1-1/2" = 1'-0"

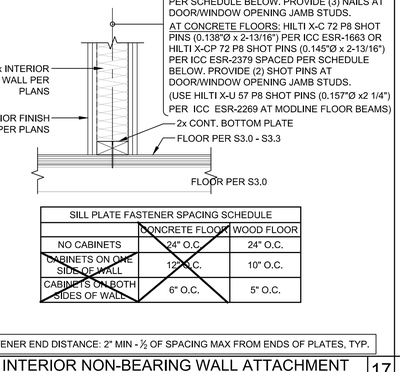
5



NOTE:
WALL MUST BE BRACED @ 8'-0" MAX BY EITHER AN INTERSECTING WALL OR WITH TOP PLATE BRACING TO ROOF FRAMING.

TYP. INTERIOR WALL BRACING
BRACE PERPENDICULAR TO PURLINS
SCALE: 1-1/2" = 1'-0"

6



NOTE:
WALL MUST BE BRACED @ 8'-0" MAX BY EITHER AN INTERSECTING WALL OR WITH TOP PLATE BRACING TO ROOF FRAMING.

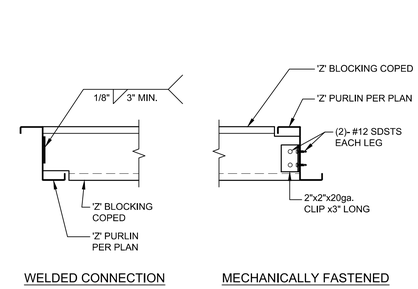
ALT. INTERIOR WALL BRACING w/ EMT BRACE
BRACE PARALLEL TO PURLINS
SCALE: 1-1/2" = 1'-0"

7

NOTE:
WALL MUST BE BRACED @ 8'-0" MAX BY EITHER AN INTERSECTING WALL OR WITH TOP PLATE BRACING TO ROOF FRAMING.

ALT. INTERIOR WALL BRACING w/ EMT BRACE
BRACE PERPENDICULAR TO PURLINS
SCALE: 1-1/2" = 1'-0"

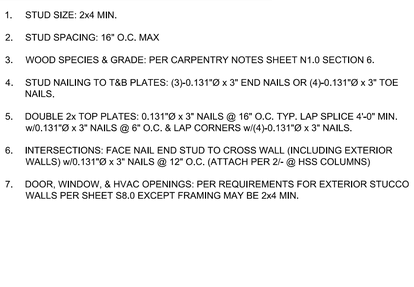
8



TYP. INTERIOR WALL BRACING
INTERIOR PARTITION BRACING
SCALE: 1-1/2" = 1'-0"

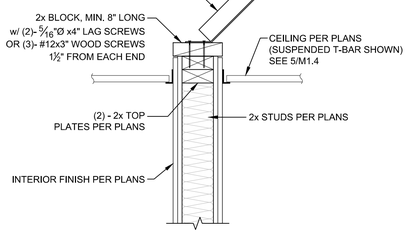
9

EMT BRACE SCHEDULE	
MAX LENGTH	EMT SIZE
5'-2"	¾"Ø
6'-6"	1"Ø



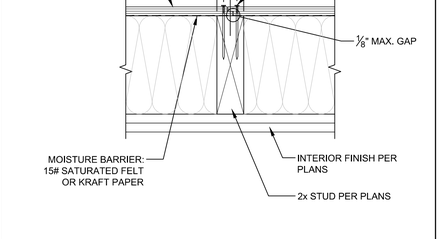
ALT. INTERIOR WALL BRACING
INTERIOR PARTITION BRACING w/ EMT BRACE
SCALE: 1-1/2" = 1'-0"

10



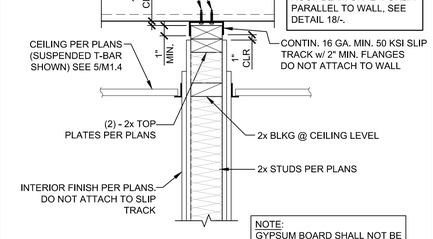
ALT. BLOCKING @ INT. WALL BRACING
SCALE: 1-1/2" = 1'-0"

11



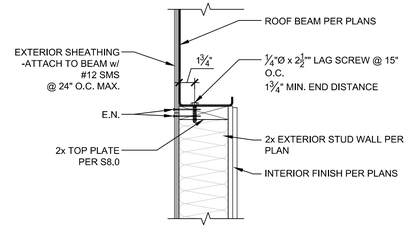
TYP. SHEATHING JOINT
SCALE: 1-1/2" = 1'-0"

12



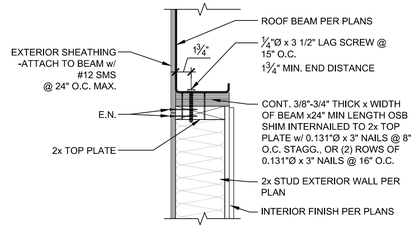
ALT. INTERIOR WALL ATTACHMENT
TO PURLINS OR BLOCKING PERPENDICULAR TO WALL
SCALE: 1-1/2" = 1'-0"

13



EXTERIOR WALL TO ROOF BEAM DETAIL
SCALE: 1-1/2" = 1'-0"

14



EXTERIOR WALL TO ROOF BEAM DETAIL
AT SHIM CONDITION
SCALE: 1-1/2" = 1'-0"

15

FASTENER END DISTANCE: 2" MIN - ½ OF SPACING MAX FROM ENDS OF PLATES, TYP.

TYP. EXTERIOR WALL TO FLOOR DETAIL
SCALE: 1-1/2" = 1'-0"

16

SILL PLATE FASTENER SPACING SCHEDULE		
	CONCRETE FLOOR	WOOD FLOOR
NO CABINETS	24" O.C.	24" O.C.
CABINETS ON ONE SIDE OF WALL	12" O.C.	10" O.C.
CABINETS ON BOTH SIDES OF WALL	6" O.C.	5" O.C.

FASTENER END DISTANCE: 2" MIN - ½ OF SPACING MAX FROM ENDS OF PLATES, TYP.

TYP. INTERIOR NON-BEARING WALL ATTACHMENT
SCALE: 1-1/2" = 1'-0"

17

NOT USED

18

ALT. INTERIOR WALL ATTACHMENT
AT ROOF BEAM

19

TYPICAL INTERIOR NON-BEARING PARTITION WALL NOTES:

1. STUD SIZE: 2x4 MIN.
2. STUD SPACING: 16" O.C. MAX
3. WOOD SPECIES & GRADE: PER CARPENTRY NOTES SHEET N1.0 SECTION 6.
4. STUD NAILING TO T&B PLATES: (3)-0.131"Ø x 3" END NAILS OR (4)-0.131"Ø x 3" TOE NAILS.
5. DOUBLE 2x TOP PLATES: 0.131"Ø x 3" NAILS @ 16" O.C. TYP. LAP SPLICE 4'-0" MIN. w/0.131"Ø x 3" NAILS @ 6" O.C. & LAP CORNERS w/(4)-0.131"Ø x 3" NAILS.
6. INTERSECTIONS: FACE NAIL END STUD TO CROSS WALL (INCLUDING EXTERIOR WALLS) w/0.131"Ø x 3" NAILS @ 12" O.C. (ATTACH PER 2/- @ HSS COLUMNS)
7. DOOR, WINDOW, & HVAC OPENINGS: PER REQUIREMENTS FOR EXTERIOR STUCCO WALLS PER SHEET S8.0 EXCEPT FRAMING MAY BE 2x4 MIN.

PURLIN BLOCKING CONNECTIONS

20

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

. . .

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — ANDREW PATRICK O'HANLON — No. C12631 Ren. 3-31-23 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — MANNY D. FRIAS — No. P-4380 Exp. 08/31/22 — STRUCTURAL — STATE OF CALIFORNIA

12/21/2021

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

REVISIONS

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

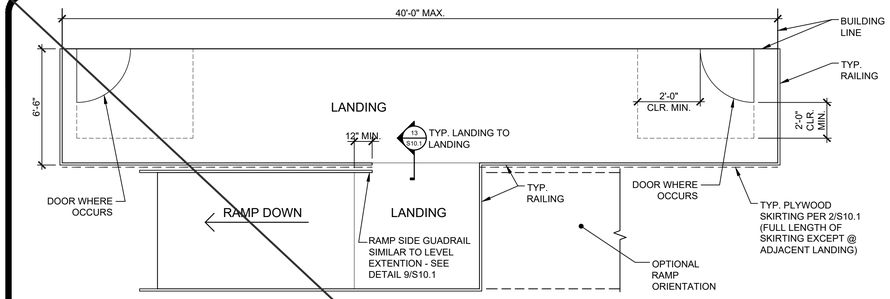
SHEET TITLE:

WALL FRAMING DETAILS - WOOD STUDS

SHEET NUMBER:

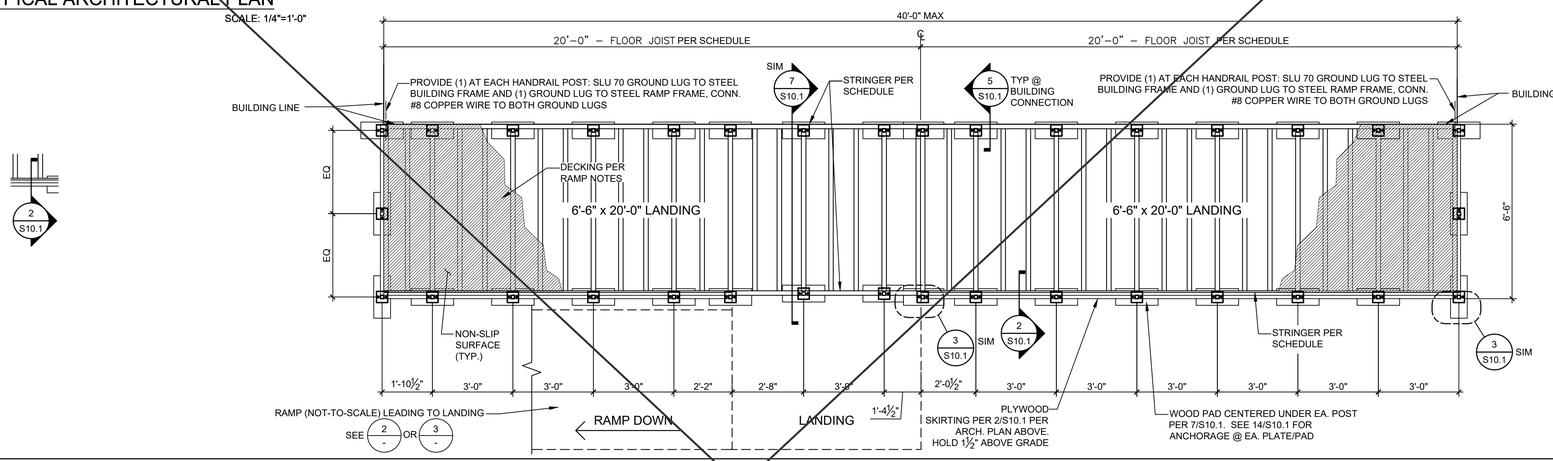
S8.1

D:\XXXX\ 2k+nUpFBSBOBvSbJBz/2020/20201209 AM 7PM/TEST/S3-TEST.DWG AM \\Pw\Projects\APC\Pw\Revit\2020\2020\2020\2021\2122\122153\S-122153.RVT



TYPICAL ARCHITECTURAL PLAN

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



LANDING PLAN OPTION

SCALE: 3/8" = 1'-0" | 1

RAMP AND LANDING DATA

OCCUPANCY	TO MATCH BUILDING
SNOW AND ICE LOAD	NOT CONSIDERED
RAMP LIVE LOAD (MAX. PSF)	100 (1,000# CONCENTRATED LD)
DESIGN DEAD LOADS (MAX PSF)	12.0
ALLOWABLE SOIL PRESSURE (PSF)	1,000 FOR WOOD FOUNDATION
LATERAL LOADS	TO MATCH MAX BUILDING REQUIREMENTS
LANDING - PERPENDICULAR TO RAMP DIRECTION & RAMP	OTHER SELF-SUPPORTING STRUCTURE (SEE FRAMES - 7/S10.1) R=1.25 I = 1.0 Ω_0 = 2.0
LANDING - PARALLEL TO RAMP DIRECTION	PLYWOOD SKIRTING (SHEARWALL)* (SEE DETAIL 2/S10.1)

* NOTE:
LANDING SECTIONS BUILT-UP AGAINST THE BUILDING ARE NOT REQUIRED TO HAVE SKIRTING PER DETAIL 2/S10.1.
THE LANDING IS DESIGNED AS AN OPEN FRONT DIAPHRAGM TYPE LATERALLY CANTILEVERED OFF THE FRONT SKIRTING AND THE FRAMES DETAILED ON 7/S10.1.

1. ENTRY RAMP AND LANDING SPECIFICATIONS

EACH BUILDING SHALL HAVE A RAMP AND LANDING TO CONFORM TO TITLE 24 C.C.R. SECTIONS 11B-405, 1010 AND 1012. THE RAMP AND LANDING STRUCTURES INCLUDING HANDRAILS AND WHEEL GUIDE RAILS ARE TO BE PREFABRICATED METAL IN SECTIONS THAT ARE DEMOUNTABLE FOR MOVING AND REINSTALLATION AT A NEW SITE. HANDRAILS AND WHEEL GUIDE RAILS SHALL BE CONTINUOUS AND SMOOTH WITH NO GAPS AT JOINTS. DESIGN SHALL BE SUCH THAT HEIGHT ADJUSTMENT CAN BE MADE AT THE INSTALLATION SITE. THE RAMP AND LANDING SURFACE SHALL BE ¾" MARINE GRADE PLYWOOD OR 11GA SHEET METAL. RAMP AND LANDING SHALL HAVE A NON-SLIP SURFACE FINISH APPLIED. NON-SLIP FINISH SHALL BE AMCOE GRIP II MANUFACTURED BY AMERICAN ABRASIVE METALS OR COMPARABLE. ALL RAMP SURFACES SHALL BE PAINTED AS INDICATED IN SECTION 9B ON SHEET N1.0. RAMPS SHALL HAVE HANDRAILS ON BOTH SIDES. WALL MOUNTED HANDRAILS SHALL BE OF SIMILAR CONSTRUCTION TO THE INTEGRAL RAMP HANDRAIL AND MOUNTED AT THE SAME HEIGHT. RAMP AND LANDING SHALL BE FULLY SKIRTED WITH THE SAME MATERIAL USED FOR BUILDING SKIRT. SIDES OF RAMP AND LANDING THAT DO NOT ADJOIN BUILDING WALL SHALL BE SKIRTED. ALL EDGES OF THE PLYWOOD SKIRT SHALL BE SUPPORTED AND PROTECTED FROM WEATHER. FOUNDATION MEMBERS SHALL BE AS FOR BUILDING FOUNDATION. ONLY THE FOUNDATION PAD RESTING ON GRADE MAY EXTEND BEYOND THE OUTSIDE FACE OF THE SKIRT 1" MAXIMUM.

2. FLOOR DECKING

¾" MARINE EXTERIOR A.P.A. 48/24 PLYWOOD w/ NON-SLIP SURFACE. DECK SURFACES SHALL BE SEALED ON ALL SIDES. FASTENED TO STEEL FRAMING WITH #10 SELF DRILLING BUGLE HEAD 1" GALV. SCREWS OR 0.144"Ø x1 ½" MIN. GALV ET&F PINS (IAPMO REPORT ER-335) OR EQUIV. @ 6" O.C. EDGES AND 12" O.C. FIELD, TYP. PROVIDE ATTACHMENT @ 6" O.C. TO JOISTS BETWEEN HANDRAIL POST AS SHOWN ON DETAIL 7/S10.1.

3. ALT. FLOOR DECKING

10 GA. SHEET METAL WITH NON-SLIP SURFACE (0.8 MIN COEFFICIENT OF FRICTION) ATTACHED TO STEEL FRAMING WITH #12x1" STS @ 6" O.C. E.N. & 12" O.C. F.N. PROVIDE ATTACHMENT @ 6" O.C. TO JOISTS BETWEEN HANDRAIL POST AS SHOWN ON DETAIL 7/S10.1. MATERIAL STRENGTH SHALL BE 36 KSI MIN. w/ A MODULUS OF ELASTICITY OF 29,500 KSI ± 3%. ACCEPTABLE STEEL MATERIALS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: ASTM A1011 SS GRADE 36 (Fy=36 KSI) ASTM A653 SS GRADE 37 (Fy=37 KSI) ASTM A1008 SS GRADE 40 (Fy=40 KSI).

4. GROUNDING OF BUILDING COMPONENT

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING NECESSARY CONNECTORS TO GROUND THE METAL PORTIONS OF THE BUILDING (I.E. FRAME, RAMP, ETC.) GROUNDING ROD, WIRES AND TESTING SHALL BE PROVIDED BY OTHER AND MEET THE REQUIREMENTS OF I.R. E-1 ISSUED BY D.S.A.

5. RAMP SLOPE

RAMPS SHALL NOT SLOPE MORE THAN 1" RISE OVER A 12" RUN (1:12). CROSS SLOPE SHALL NOT EXCEED 1:48.

6. HANDRAILS

HANDRAILS SHALL BE INSTALLED ON BOTH SIDES OF RAMP AT 34" HIGH. HANDRAILS SHALL BE AT A CONSISTENT VERTICAL HEIGHT FOR THE ENTIRE STRUCTURE.

7. RAMP PLANNING

DUE TO VARYING SITE CONDITIONS, THE MAXIMUM HEIGHT OF FINISH FLOOR FROM GRADE IS 24", THEREFORE IT IS POSSIBLE THAT THE ACCESS RAMP ATTACHED TO THE BUILDING COULD BE 24'-0" LONG AT A SLOPE OF 1:12. ARCHITECT MUST TAKE INTO ACCOUNT THAT THE RAMP SUPPLIED BY AMS, INC. IS 12'-0" LONG AT A SLOPE OF 1:12, THEREFORE THE ARCHITECT WILL HAVE TO DESIGN AND PROVIDE SUFFICIENT DETAILS OF RAMP EXTENSIONS AND BOTTOM LANDING DEPENDING ON PARTICULAR SITE CONDITIONS. IN NO WAY IS AMS, INC. RESPONSIBLE FOR ANY RAMP EXTENSION EXCEEDING THE ORIGINAL PLAN AS SHOWN ON THIS SHEET.

8. LANDINGS

OVERALL LENGTH OF A LANDING MAY VARY FROM 60" UP TO 40'-0". LENGTH MUST CONFORM TO APPROVED LANDING. SLOPE LANDING NOT TO EXCEED 1:48 TO PREVENT WATER PONDING.

9. FASTENERS

ALL EXTERIOR USE FASTENERS SHALL BE GALVANIZED OR STAINLESS STEEL.

10. WELDING

THE DESIGN PROFESSIONAL HAS EXEMPTED THIS RAMP FROM SPECIAL INSPECTION REQUIREMENTS FOR MATERIAL IDENTIFICATION AND STRUCTURAL WELDING. RAMP SHALL NOT BE MODIFIED NOR HAVE SHIMS ADDED CAUSING THE DISTANCE BETWEEN THE HIGHEST RAMP WALKING SURFACE AND THE ADJACENT GRADE TO BE MORE THAN 30 INCHES. IF THIS CONDITION IS NOT MET, STRUCTURAL TESTING AND/OR INSPECTION WILL BE REQUIRED TO VERIFY MATERIALS AND STRUCTURAL WELDING. THIS APPLIES TO SCOPES OF WORK INCLUDING NEW CONSTRUCTION, ALTERATION, OR RELOCATION OF THE RAMP.

RAMP NOTES

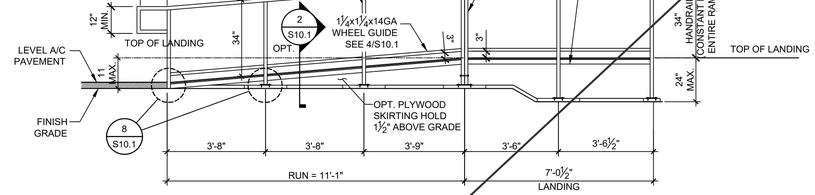
STRINGER SCHEDULE(1)			
RAMP/LANDING WIDTH	MAX STRINGER SPANS (FT)		
	3'-0"	3'-6"	3'-9"
4'-0"	TUBE 2x2x11 GA	TUBE 2x2x11 GA	HSS 2x2x3/16
5'-0"	TUBE 2x2x11 GA	TUBE 2x2x11 GA	HSS 2x2x3/16
5'-10"	TUBE 2x2x11 GA	TUBE 2x2x11 GA	HSS 2x2x3/16
6'-6"	TUBE 2x2x11 GA	TUBE 2x2x11 GA	HSS 2x2x3/16
7'-4"	TUBE 2x2x11 GA	TUBE 2x2x11 GA	HSS 2x2x3/16

(1) SEE 4/S10.1 FOR LIGHT GAUGE STEEL TUBE PROPERTIES, SIZES INDICATED ARE MINIMUM. THICKER TUBES MAY BE USED. HSS 2x2x1/8 OR LARGER PER 11/S10.1 MAY BE SUBSTITUTED FOR LIGHT GAUGE TUBES.

JOIST SCHEDULE(1)										
RAMP/ LANDING WIDTH	MAX JOIST SPACING									
	TUBE 2x2x14 GA.		TUBE 2x2x11 GA.		HSS 2x2x3/16		HSS 2x2x3/16		HSS 2x2x1/4	
	DECKING		DECKING		DECKING		DECKING		DECKING	
	PLY	10 GA.	PLY	10 GA.	PLY	10 GA.	PLY	10 GA.	PLY	10 GA.
4'-0"	16"	11"	16"	14"	16"	14"	16"	14"	16"	14"
5'-0"	14"	11"	16"	14"	16"	14"	16"	14"	16"	14"
5'-5½"	-	-	12"	12"	12"	12"	16"	14"	16"	14"
5'-10"	-	-	12"	12"	12"	12"	15"	14"	16"	14"
6'-6"	-	-	-	-	-	-	12"	12"	14"	14"
7'-4"	-	-	-	-	-	-	9"	9"	11"	11"

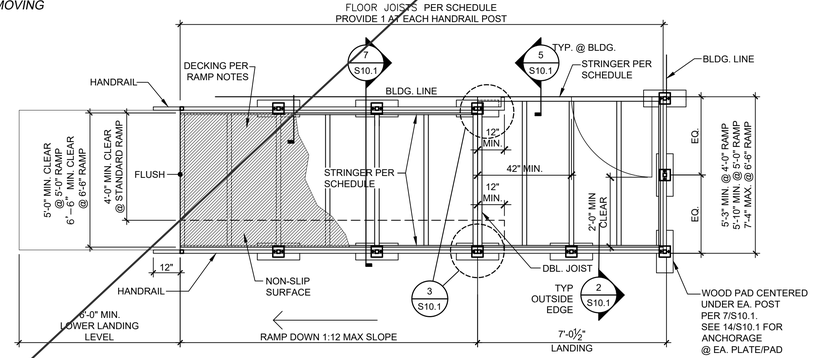
(1) SEE 4/S10.1 FOR LIGHT GAUGE STEEL TUBE PROPERTIES, AND 11/S10.1 FOR HSS PROPERTIES

RAMP/ LANDING MEMBER SCHEDULE



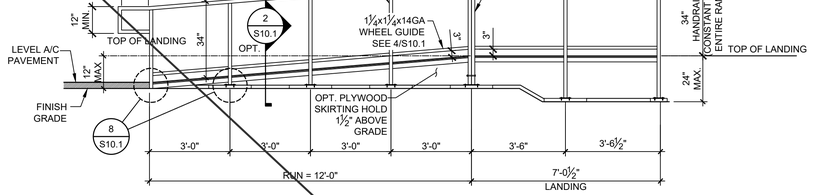
RAMP ELEVATION

NOTE: RAMP & LANDING TO BE FABRICATED IN SECTIONS (2 MIN.) FOR MOVING



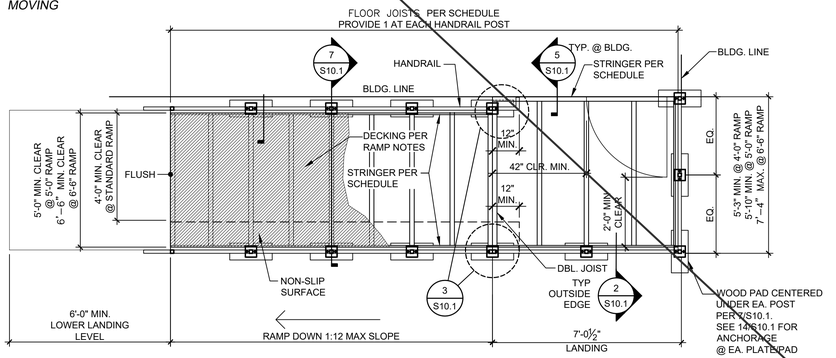
NOTE: FOR RAMP & LANDING MINIMUM REQUIREMENTS, SEE DETAIL 16/A1.0

11-FOOT TYPICAL RAMP — SCALE: 3/8" = 1'-0" | 2



RAMP ELEVATION

NOTE: RAMP & LANDING TO BE FABRICATED IN SECTIONS (2 MIN.) FOR MOVING



NOTE: FOR RAMP & LANDING MINIMUM REQUIREMENTS, SEE DETAIL 16/A1.0

12-FOOT TYPICAL RAMP — SCALE: 3/8" = 1'-0" | 3

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

SITE SPECIFIC PROJECT NAME

. . .

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — REGINALD PATRICK CONLEY — No. C12631 Ren. 3-31-23 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — MANNY D. FRIAS — No. 33180 — STRUCTURAL — STATE OF CALIFORNIA

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

REVISIONS

1 2 3 4

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

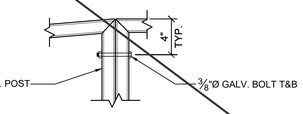
SHEET TITLE:

TYPICAL RAMP PLANS & NOTES

SHEET NUMBER:

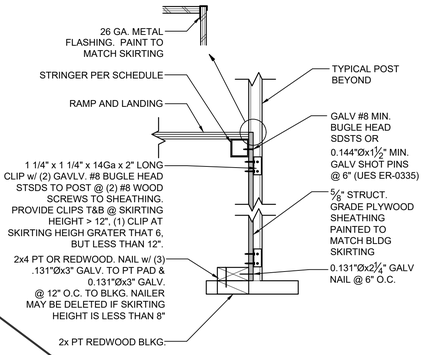
S10.0

G:\XXXX\X_[redacted]\S10.0 3/25/2022 3:54:45 PM



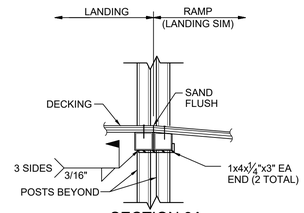
DETAIL

SCALE: 3/8"=1'-0" | 1

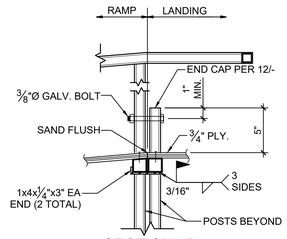


RAMP SKIRT DETAIL

SCALE: 3/8"=1'-0" | 2



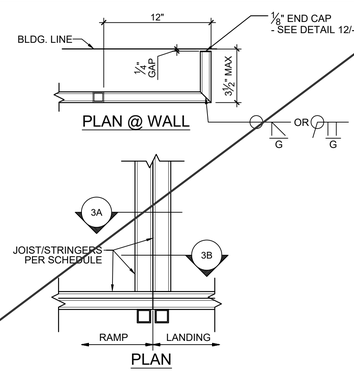
SECTION 3A

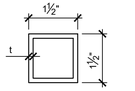


SECTION 3B

RAMP TO LANDING CONNECTION DETAIL

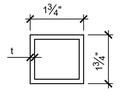
SCALE: 3/8"=1'-0" | 3





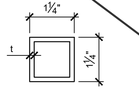
1½"x1½"x11 GA. TUBE

A = 0.602 IN^2
Sx = 0.244 IN^3
Ix = 0.183 IN^4
t = 0.112" MIN.
(0.1175" DESIGN)



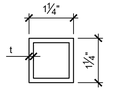
1¾"x1¾"x11 GA. TUBE

A = 0.725 IN^2
Sx = 0.356 IN^3
Ix = 0.312 IN ^{4}
t = 0.112" MIN.
(0.1175" DESIGN)



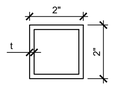
1¼"x1¼"x14 GA. TUBE

A = 0.319 IN^2
Sx = 0.114 IN^3
Ix = 0.072 IN^4
t = 0.068" MIN.
(0.0713" DESIGN)



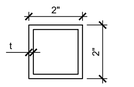
1¼"x1¼"x11 GA. TUBE

A = 0.497 IN^2
Sx = 0.183 IN^3
Ix = 0.102 IN^4
t = 0.112" MIN.
(0.1175" DESIGN)



2"x2"x11 GA TUBE

A = 0.837 IN^2
Sx = .479 IN^3
Ix = .479 IN^4
t = 0.112" MIN.
(0.1175" DESIGN)



2"x2"x14 GA TUBE

A = 0.533 IN^2
Sx = 0.324 IN^3
Ix = 0.324 IN^4
t = 0.068" MIN.
(0.0713" DESIGN)

MATERIAL STRENGTH SHALL BE 36 KSI MIN. w/ A MODULUS OF ELASTICITY OF 29,500 KSI ± 3%. ACCEPTABLE STEEL MATERIALS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

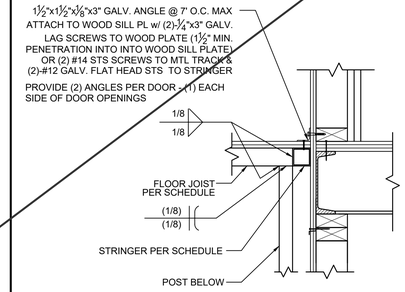
ASTM A1011 SS GRADE 36 (Fy=36 KSI)
ASTM A653 SS GRADE 37 (Fy=37 KSI)
ASTM A1008 SS GRADE 40 (Fy=40 KSI)
ASTM A500 (Fy = 36 KSI MIN)

MATERIAL SHALL BE GIVEN A RUST INHIBITIVE COATING.

THE MATERIAL THICKNESS OF LIGHT GAUGE STEEL MEMBERS, IN THEIR END US, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED ABOVE. THE MATERIAL GAUGE DESIGNATION SHALL BE USED AS REFERENCE ONLY. SPECIFIED STEEL TUBE THICKNESSES ARE MINIMUM. THICKER TUBES MAY BE USED.

LIGHT GAUGE STEEL TUBE PROPERTIES

SCALE: 3/8"=1'-0" | 4

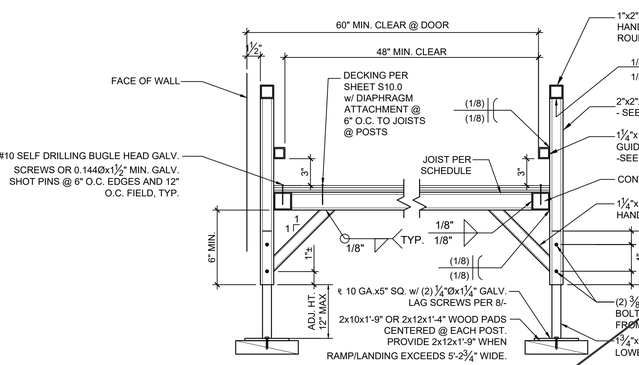


LANDING ATTACHMENT DETAIL

SCALE: 3/8"=1'-0" | 5

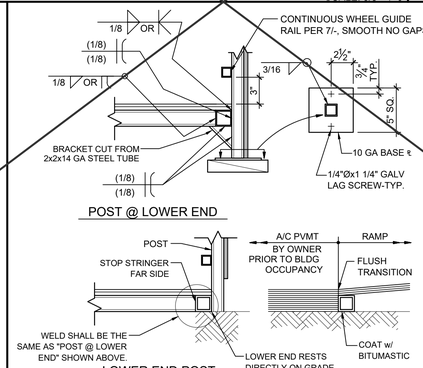
NOT USED

6



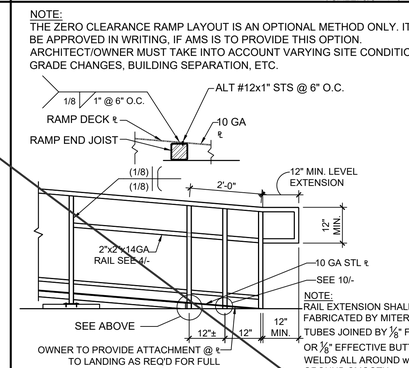
HANDRAIL & RAMP SECTION

SCALE: 3/8"=1'-0" | 7



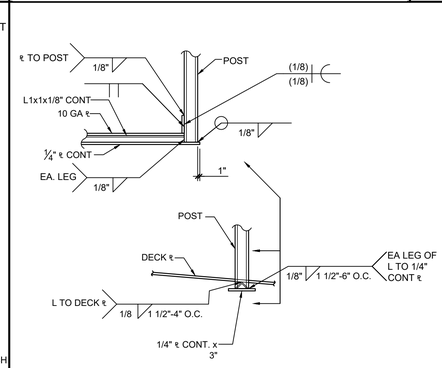
DETAIL

SCALE: 3/8"=1'-0" | 8



TYP. ZERO CLEARANCE RAMP DETAIL

SCALE: 3/8"=1'-0" | 9

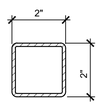


DETAIL

SCALE: 3/8"=1'-0" | 10

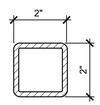
1. STEEL IN CONTACT WITH GROUND OR PT WOOD FOUNDATION PLATE SHOULD BE GALVANIZED.

GENERAL CONNECTION NOTES



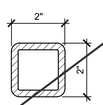
HSS 2x2x1/8

ASTM A500 GRADE B
Fy = 46 KSI
A = 0.840 IN^2
Sx = 0.4863 IN^3
Ix = 0.486 IN^4



HSS 2x2x3/16

ASTM A500 GRADE B
Fy = 46 KSI
A = 1.19 IN^2
Sx = 0.641 IN^3
Ix = 0.641 IN^4



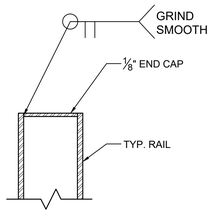
HSS 2x2x1/4

ASTM A500 GRADE B
Fy = 46 KSI
A = 1.51 IN^2
Sx = 0.747 IN^3
Ix = 0.747 IN^4

MATERIAL SHALL BE GIVEN A RUST INHIBITIVE COATING

HSS PROPERTIES

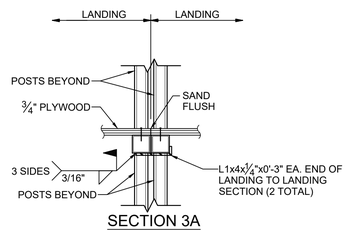
11



NOTE: END CAP MAY ALSO BE PLASTIC SNAP-ON CAP

END CAP DETAIL

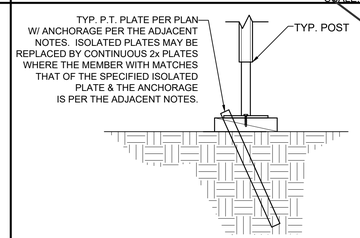
SCALE: N.T.S. | 12



SECTION 3A

LANDING TO LANDING CONNECTION

SCALE: 3/8" = 1'-0" | 13



P.T. PLATE ANCHORAGE (ISOLATED PLATES)
ON SOIL, A/C OR CONCRETE PAVING
1"Ø STANDARD WEIGHT (1.315 ACTUAL O.D.) HOT DIPPED GALV. PIPE PER PLATE w/ 12" MIN. PENETRATION MEASURED VERTICALLY BELOW SOIL OR PAVING SURFACE. DRILL PLATE 1 ⅜"Ø MAX. PIPE MAY BE DRIVEN MAX. PIPE MAY BE DRIVEN MAX 45° ANGLE TO VERTICAL.

ALTERNATE ON CONC. PAVING ONLY:
(2) SIMPSON SS (STAINLESS STEEL) STRONG-BOLT 2 THRU EA. PLATE w/ 3 ½" MIN. CONC. EMBEDMENT. SEE SHTS. S2.0-S2.3 FOR INSTALLATION REQUIREMENTS.

P.T. PLATE ANCHORAGE (CONTINUOUS PLATES)
ON SOIL, A/C OR CONCRETE PAVING
1"Ø STANDARD WEIGHT (1.315 ACTUAL O.C.) HOT DIPPED GALV. PIPE @ 4'-0" O.C. MAX. w/ 12" MIN. PENETRATION MEASURED VERTICALLY BELOW SOIL OR PAVING SURFACE. PROVIDE A MIN. OF (2) PIPE ANCHORS FOR ANY SECTION OF PLATE. DRILL PLATE 1 ⅜"Ø MAX. PIPE MAY BE DRIVEN MAX 45° ANGLE TO VERTICAL.

ALTERNATE ON CONC. PAVING ONLY:
SIMPSON SS (STAINLESS STEEL) STRONG-BOLT 2 THRU PLATE @ 3'-0" O.C. MAX. w/ 3 ½" MIN. CONC. EMBEDMENT. PROVIDE A MIN. OF (2) ANCHORS FOR ANY SECTION OF PLATE. SEE SHTS. S2.0-S2.3 FOR INSTALLATION REQUIREMENTS.

P.T PLATE ANCHORAGE

SCALE: 3/8" = 1'-0" | 14

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — KENNETH PATRICK HAWKINS — No. C12631 Ren. 3-31-23 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — MANNY D. ESPINOZA — No. S33380 — STRUCTURAL — STATE OF CALIFORNIA

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

REVISIONS

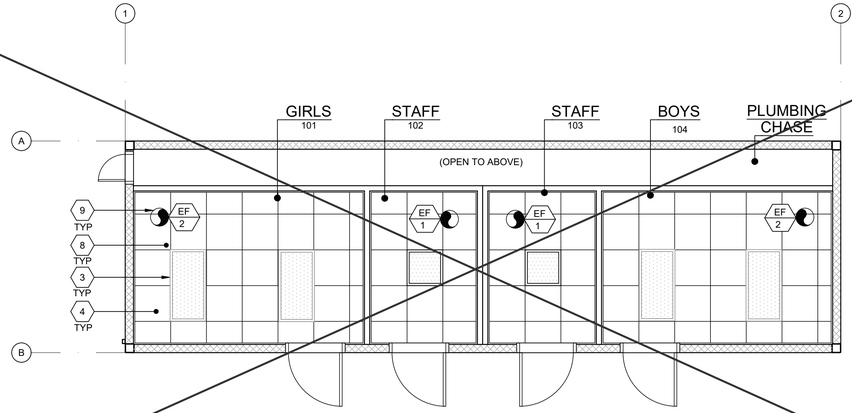
DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

SHEET TITLE:

RAMP DETAILS

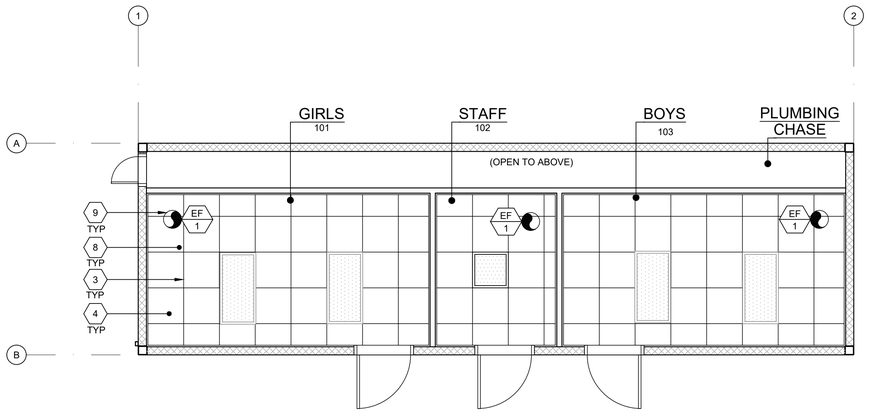
SHEET NUMBER:

S10.1



TYPICAL REFLECTED CEILING PLAN

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



TYPICAL REFLECTED CEILING PLAN

SCALE: 1/4" = 1' - 0" | 2

1. NOT USED
2. NOT USED
3. INTERIOR LIGHT FIXTURE, REFER TO SHEET SHEET E1.0 FOR SPEC'S ATTACHMENT PER DETAIL 7/M1.4
4. CEILING HEIGHT @ 8'-6" MIN.
5. NOT USED
6. NOT USED
7. NOT USED
8. T-BAR SUSPENDED CEILING TYP.
9. EXHAUST FAN - SEE DETAIL 11/M1.6

KEY NOTES

MARK	DESCRIPTION	CFM	WATTS	S.P.	VOLT/PH	
EF 1	EXHAUST FAN	110	47.3	.10"	120-1Ø	NUTONE AN110 CEILING MOUNTED 180W INPUT 10 LBS (OR EQUAL)
EF 2	EXHAUST FAN	210	127	.125"	120-1Ø	BROAN L200 CEILING MOUNTED 180W INPUT 23 LBS (OR EQUAL)

NOTES:
1. VENT EXHAUST FAN THROUGH ROOF.
2. FANS MUST WEIGH LESS THAN 75 LBS.
3. LIGHTING FIXTURES MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-GRID LAYOUT.

EXHAUST FAN SCHEDULE

MEP COMPONENT ANCHORAGE NOTES

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

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR110/220 VOLT RECEPTACLES HAVING A FLEXBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

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

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

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

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

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES

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

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

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

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

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

MEP COMPONENT ANCHORAGE NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

MMM
STOCKPILE
(20) 12'x40' BUILDINGS

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
ANDREW PATRICK KNIGHT
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

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

REVISIONS

1	
2	
3	
4	

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	06/01/2023
PROJECT NO:	1790-23

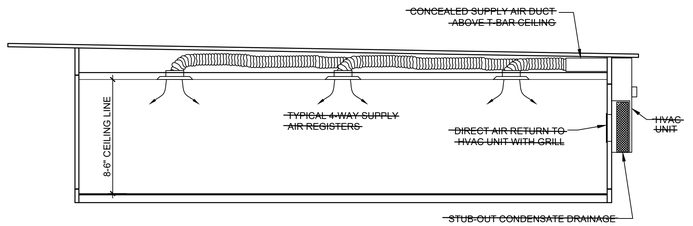
SHEET TITLE:

RESTROOM
REFLECTING CEILING PLAN

SHEET NUMBER:

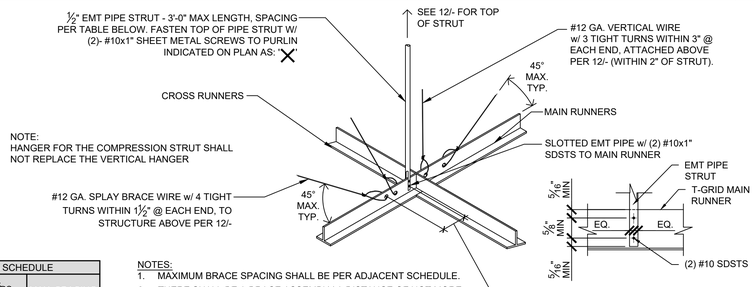
M1.0

D:\XXXX_[plot:dd/MM/yyyy]\[file:\dir\dir\dir\file.rvt]\[DATE:03/23/2024] PM [PORTER] [03/23/2024 PM [file:\path\path\path



TYPICAL MECHANICAL SECTION

SCALE: 3/16" = 1'-0" | 1

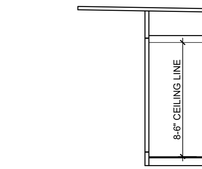


BRACING SCHEDULE	
SITE SPECIFIC S_{DS} (PER SHEET TS)	MAX. SPACING
☐ $S_{DS} \leq 1.15$	12'x12'
☒ $1.15 \leq S_{DS} \leq 1.73$	8'x12'
☐ $S_{DS} > 1.73$	8'x8'

NOTES:
1. MAXIMUM BRACE SPACING SHALL BE PER ADJACENT SCHEDULE.
2. THERE SHALL BE A BRACE ASSEMBLY A DISTANCE OF NOT MORE THAN ONE HALF OF THE ABOVE SPACING FROM EACH SURROUNDING WALL, EXPANSION JOINT AND AT THE EDGES OF ANY CEILING VERTICAL OFFSET. FOR EXAMPLE, WHERE THE BRACE SPACING IS 8'x12", THE DISTANCE SHALL BE 4 FEET IN THE DIRECTION OF THE 8 FOOT SPACING AND 6 FEET IN THE DIRECTION OF THE 12 FOOT SPACING. FOR FURTHER INFORMATION REFER TO SPECIFICATIONS ON SHEET M1.7.

STRUT/SPLAY WIRE ASSEMBLY DETAIL

NOT TO SCALE | 2

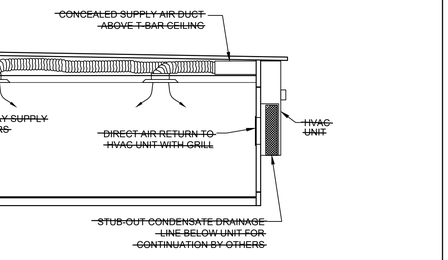


MAX WATER HEATER WEIGHT = 400 LBS

NOTE:
PRESSURE RELIEF VALVE SHALL BE PLUMBED TO OUTSIDE/EXTERIOR OF BUILDING.

WATER HEATER STRAP DETAIL

NOT TO SCALE | 6

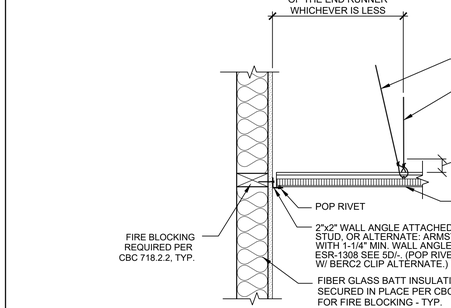


PROVIDE (1) #8x¾" SMS THRU GRID TO LIGHT FIXTURE @ 2 MIN. CORNERS

NOTE: FIXTURE WEIGHT LESS THAN OR EQUAL TO 56 LBS

LIGHT FIXTURE ATTACHMENT

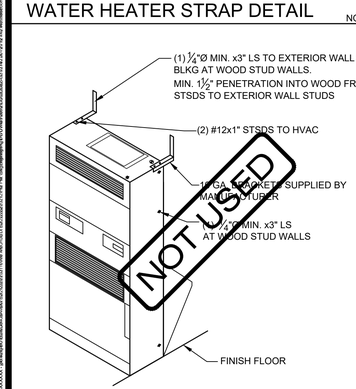
NOT TO SCALE | 7



C.B.C. SECTION 718.4.3:
"DRAFTSTOPPING SHALL BE INSTALLED IN ATTICS AND CONCEALED ROOF SPACES, SUCH THAT ANY HORIZONTAL AREA DOES NOT EXCEED 3,000 SQUARE FEET."
NOTE EXCEPTION #2:
IN GROUP A, E, H, I, L OCCUPANCIES, WHERE AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 IS INSTALLED, THE AREA BETWEEN DRAFT STOPS MAY BE 9,000 SQUARE FEET AND THE GREATEST HORIZONTAL DISTANCE MAY BE 100 FEET.

CEILING DRAFT STOP DETAIL

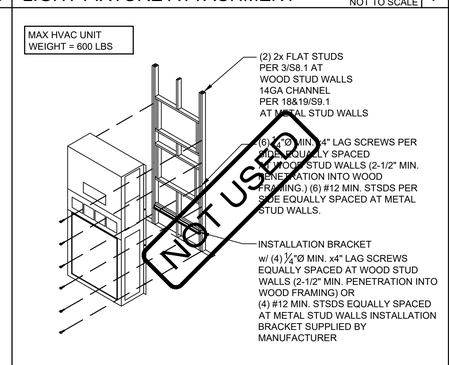
SCALE: 1-1/2" = 1'-0" | 8



INTERIOR HVAC ANCHORAGE

NOT TO SCALE | 9

MAX HVAC UNIT WEIGHT = 600 LBS



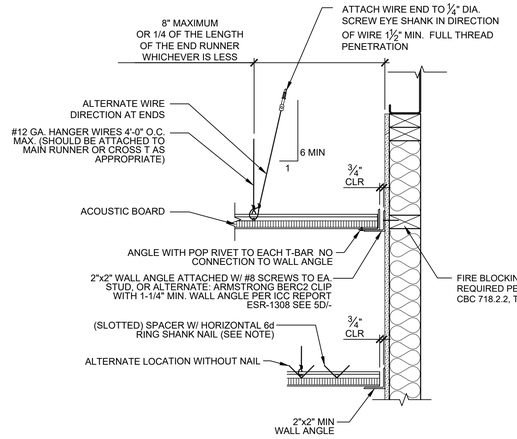
WALL MOUNT HVAC ANCHORAGE

NOT TO SCALE | 10

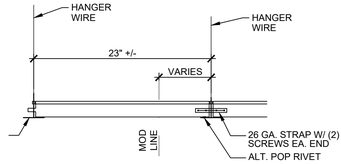
NOT USED

11

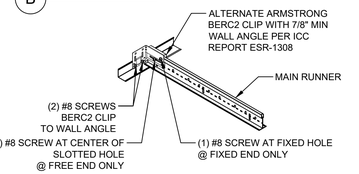
A FIXED END



B FREE END



C RUNNER SPLICE AND CEILING CONNECTION @ MODULE LINE

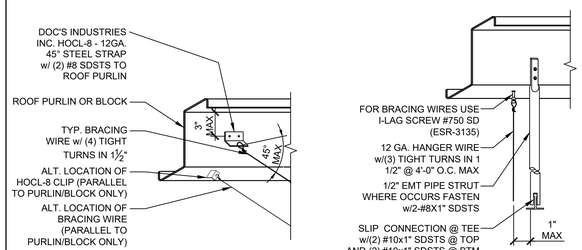


D ALTERNATE BERC2 CLIP DETAIL

NOTE:
NAILS AT THE END OF HORIZONTAL STRUTS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTERLINE OF SPAN OF STRUT.

SUSPENDED CEILING ATTACHMENT DETAILS

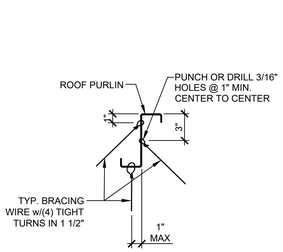
SCALE: 1-1/2" = 1'-0" | 5



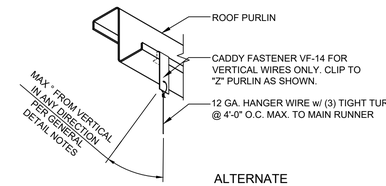
1:6 MAX. FOR TYPICAL HANGER WIRE
45° MAX. FROM HORIZ. FOR SPLAY BRACING
& FOR SLACK BRACING OF FIXTURES & REGISTERS

AT STEEL JOIST OR RAFTER

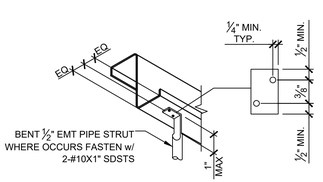
TO BOTTOM OR WEB OF JOIST OR RAFTER



ALTERNATE WIRE CONNECTIONS



ALTERNATE WIRE CONNECTIONS



TO BOTTOM OF JOIST OR RAFTER

GENERAL DETAIL NOTES:
1. TYPICAL HANGER WIRES & VERTICAL STRUTS SHALL BE INSTALLED AT A MAXIMUM 1:6 ANGLE FROM VERTICAL.
2. TYPICAL SPLAY BRACING WIRES & WIRES FOR SLACK BRACING OF FIXTURES OR REGISTERS SHALL BE INSTALLED AT A MAXIMUM 45° ANGLE FROM THE SURFACE TO WHICH THEY ARE ATTACHED.

SUSPENDED CEILING TO PURLIN CONNECTION DETAILS

NOT TO SCALE | 12

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
.
.
.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — KENNETH PATRICK GIBBONS — No. C12631 Ren. 3-31-23 — STATE OF CALIFORNIA

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

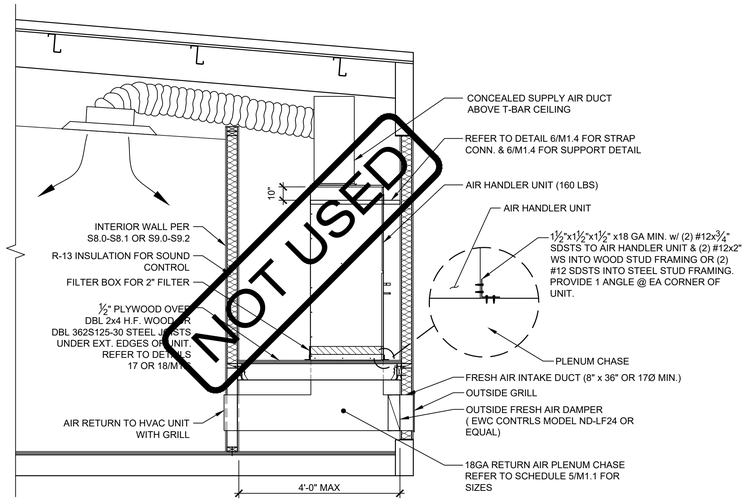
REVISIONS

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

SHEET TITLE:
MECHANICAL AND CEILING DETAILS

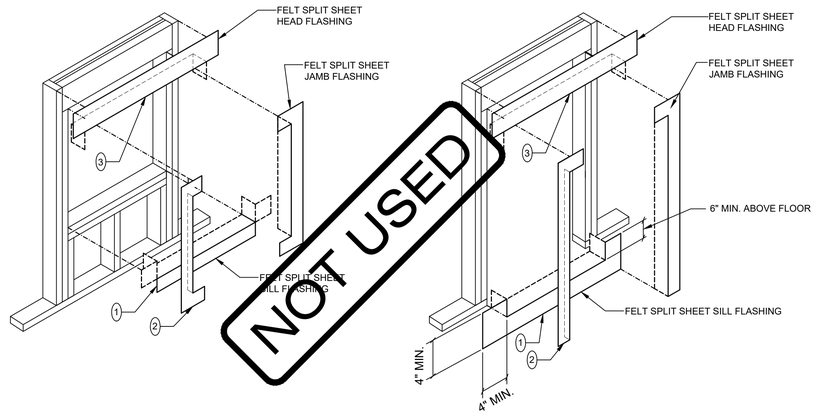
SHEET NUMBER:
M1.4

S:\XXXX-20\[AHJ=CA\ESIGN=CA\PC=CA\CG=CA\SDC=D\SDS=1.01\WIND=90\ROOF=20\SNOW=0\EXP=C\RISK=II\ENCL=E\]



NOTE: OUTSIDE AIR DUCT MUST INCLUDE A DAMPER THAT WILL FULLY CLOSE WHEN INDOOR FAN SHUTS DOWN PER SECTION 120.2(F).

SPLIT SYSTEM CROSS SECTION — SCALE: 1/2" = 1'-0" — 1

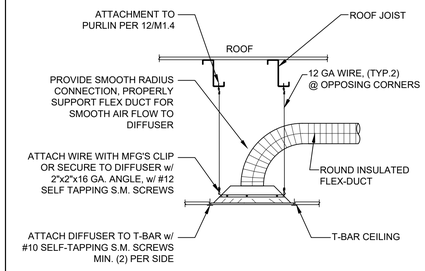


WINDOW CONDITION

DOOR CONDITION

(#) = SEQUENCE OF ORDER

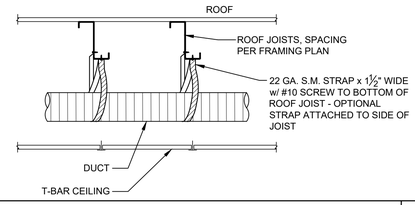
FLASHING @ WALL OPENINGS — NOT TO SCALE — 2



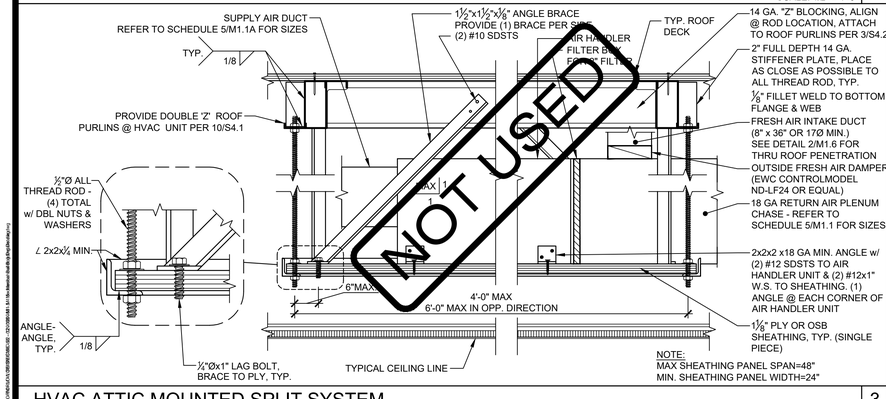
REGISTER MOUNTING DETAIL — NOT TO SCALE — 7

NOTES:

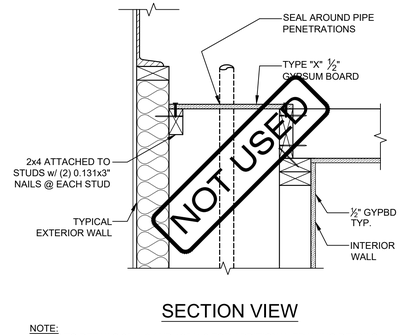
1. DUCTWORK SHALL BE SUPPORTED FROM ROOF JOISTS AT 4'-0" O.C.MAX TO ELIMINATE SAGGING.
2. FLEX DUCT (5'-0" MAX LENGTH) SHALL BE PULLED TIGHT TO ELIMINATE SAGGING.
3. DUCT TO PLENUM ATTACHMENT SHALL BE (3) #8 SCREWS & COVERED WITH 367-17 TAPE (UL181B-FX).
4. FOR DUCT ATTACHMENT TO DIFFUSER - SEE DETAIL 7/-.
5. ALL DUCTS TO BE SEALED WITH 367 MASTIC TAPE, OUTSIDE OF THE INSULATING LINER ON THE FLEX DUCT TO BE SEALED WITH 558CA CODE APPROVED DUCT TAPE.



FLEX DUCTING SUPPORT DETAIL — NOT TO SCALE — 8



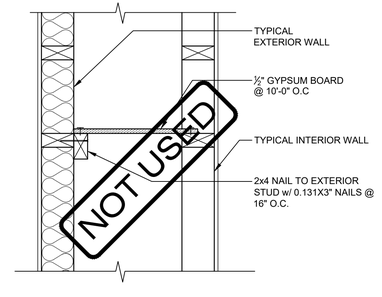
HVAC ATTIC MOUNTED SPLIT SYSTEM — NOT TO SCALE — 3



SECTION VIEW

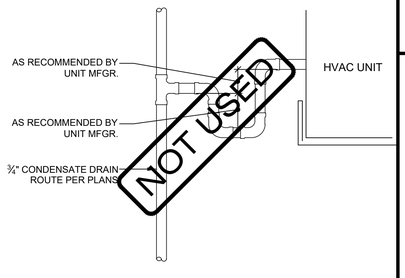
NOTE:
REFER TO DETAILS 8/M1.6 AND 13/M1.6 FOR ADDITIONAL FRAMING DETAILS

DRAFT STOP @ PLUMBING CHASE — SCALE: 1" = 1'-0" — 4

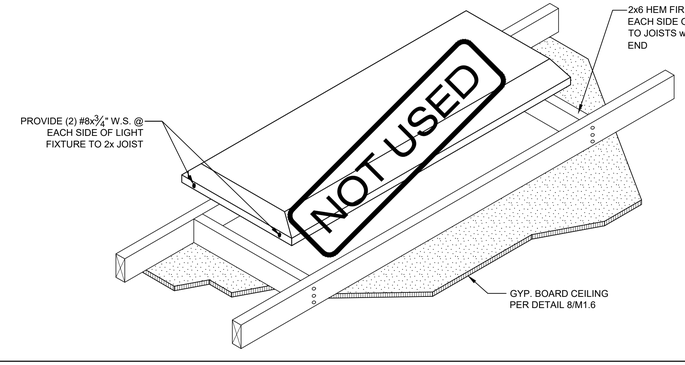


PLAN VIEW

DRAFT STOP @ PLUMBING CHASE — SCALE: 1" = 1'-0" — 5



CONDENSATE DETAIL — NOT TO SCALE — 9



LIGHT FIXTURE ATTACHMENT DETAIL — NOT TO SCALE — 6A

NOT USED — 6B

NOT USED — 10

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

. . .

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — KEVIN PATRICK CARLSON — No. C12631 Ren. 3-31-23 — STATE OF CALIFORNIA

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

REVISIONS

1	
2	
3	
4	

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

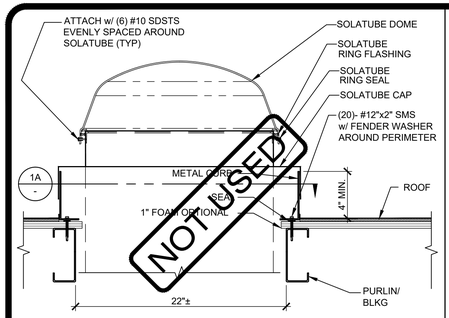
SHEET TITLE:

MECHANICAL & CEILING DETAILS

SHEET NUMBER:

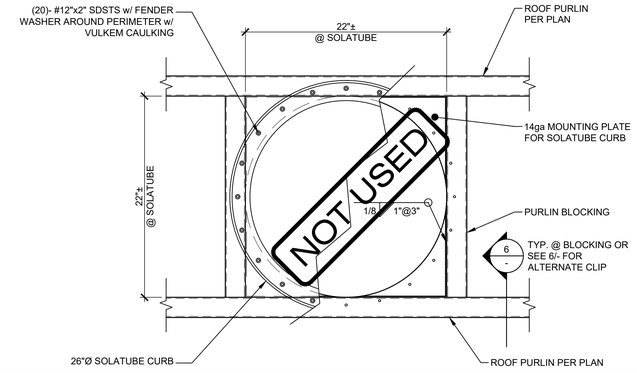
M1.5

02/XXXX/X - [illegible]

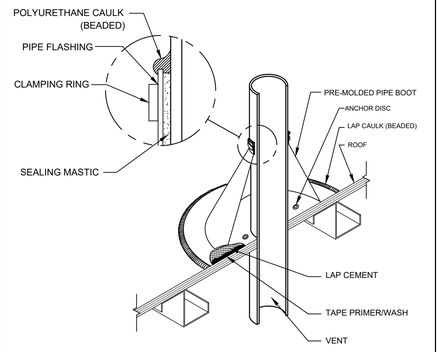


DOMED SKYLIGHTS SHALL COMPLY WITH C.B.C. SECTIONS 2405.5 & 2610, AND AAMA/WDMA/CSA 101/I.S./A440.

SOLATUBE ATTACHMENT DETAIL
SCALE: 1-1/2" = 1'-0" | 1



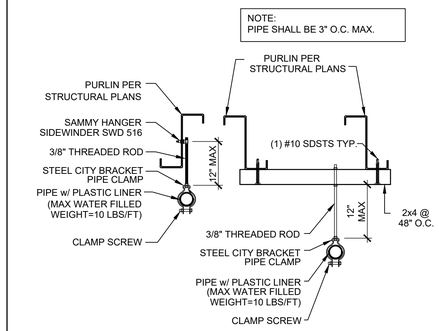
SOLATUBE CURB ATTACHMENT DETAIL
SCALE: 1-1/2" = 1'-0" | 1A



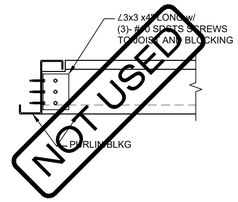
VENT THRU ROOF PENETRATION DETAIL
NOT TO SCALE | 2

NOT USED
3

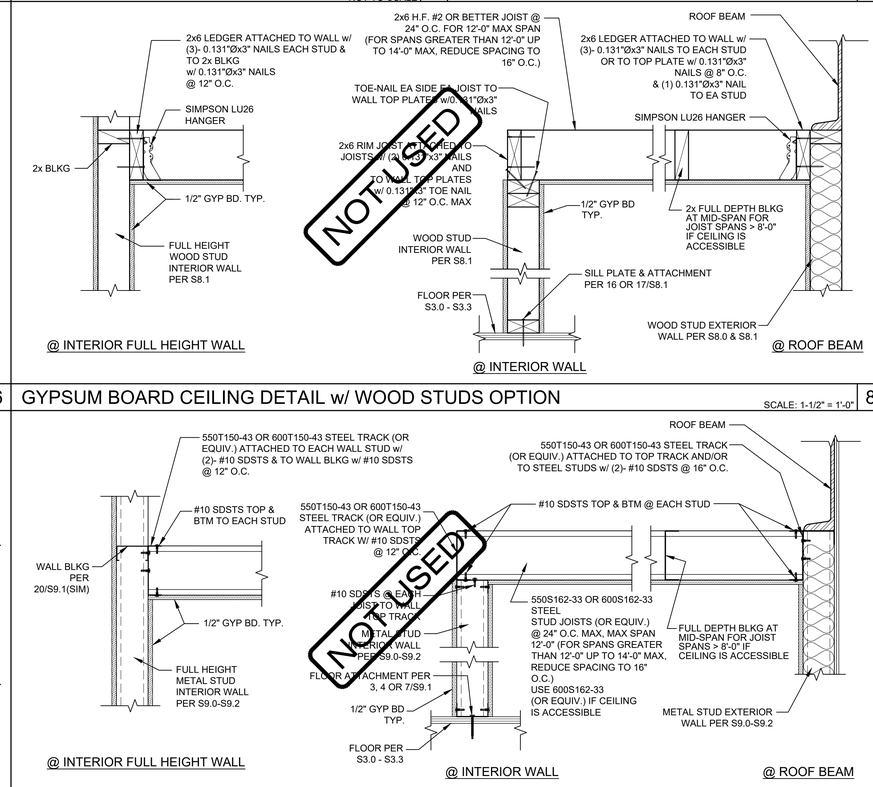
NOT USED
4



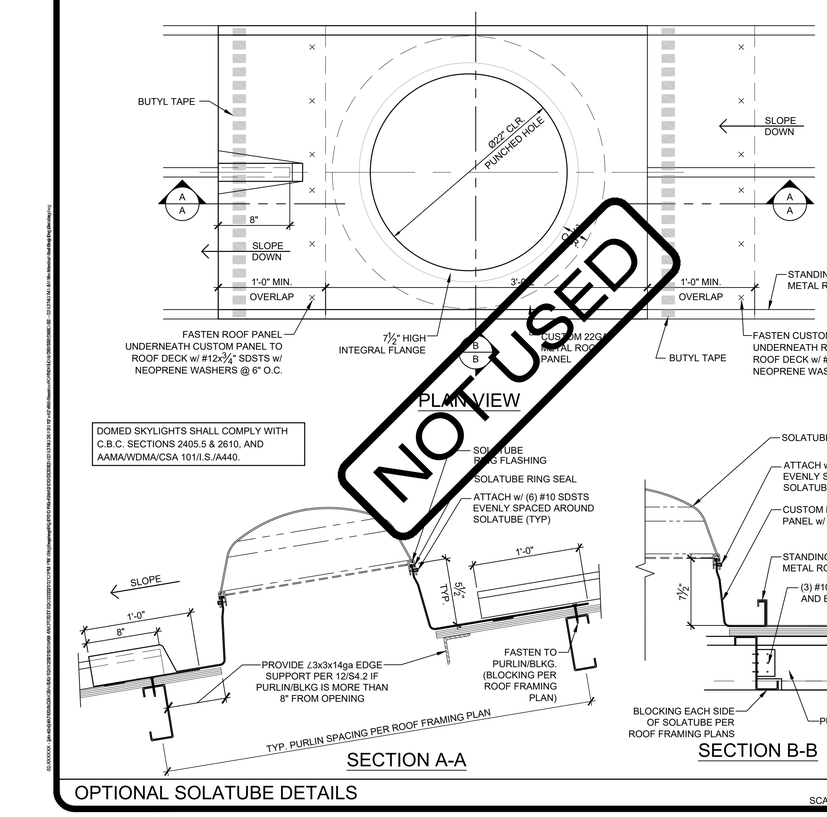
PIPE HANGER DETAIL
SCALE: 1-1/2" = 1'-0" | 5



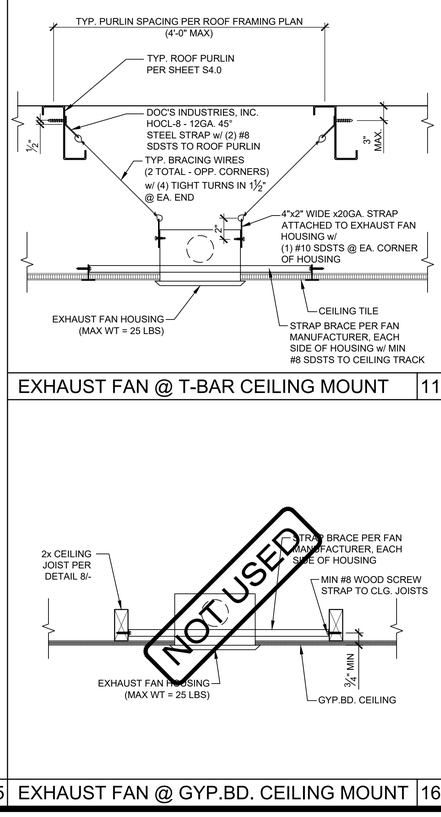
SOLATUBE SECTION (ALT. CLIP)
SCALE: 1-1/2" = 1'-0" | 6



GYPSUM BOARD CEILING DETAIL w/ WOOD STUDS OPTION
SCALE: 1-1/2" = 1'-0" | 8



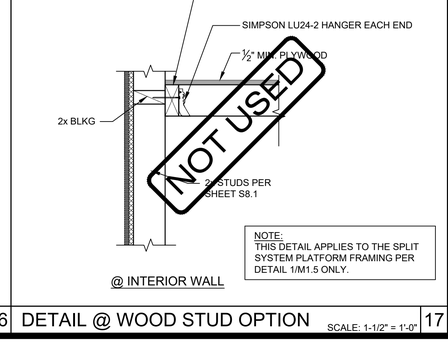
OPTIONAL SOLATUBE DETAILS
SCALE: 1-1/2" = 1'-0" | 15



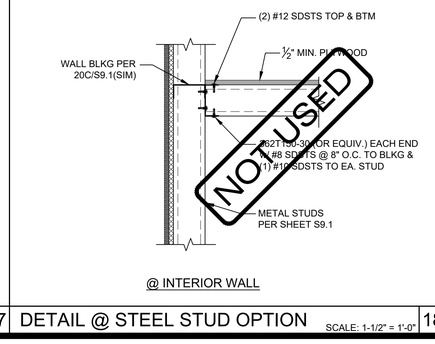
EXHAUST FAN @ T-BAR CEILING MOUNT
11

GYPSUM BOARD CEILING DETAIL w/ STEEL STUDS OPTION
SCALE: 1-1/2" = 1'-0" | 13

EXHAUST FAN @ GYP.BD. CEILING MOUNT
16



DETAIL @ WOOD STUD OPTION
SCALE: 1-1/2" = 1'-0" | 17



DETAIL @ STEEL STUD OPTION
SCALE: 1-1/2" = 1'-0" | 18

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — RODNEY PATRICK CRAWFORD — No. C12631 — Ren. 3-31-23 — STATE OF CALIFORNIA

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

REVISIONS

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

SHEET TITLE:

MECHANICAL ROOF DETAILS

SHEET NUMBER:

M1.6

D:\XXXX - 20=AQUA\TEMP\ACAD\Acad-XXXX-20.dwg 03/20/2024 8:58:08 AM PDT 03/20/2024 8:58:08 AM PDT 03/20/2024 8:58:08 AM PDT

1. CEILING GRID SYSTEMS IN SEISMIC ZONES D, E, F, MUST BE RATED "HEAVY DUTY", AS DEFINED BY ASTM C635. PROVIDE GRID COMPONENTS AS SPECIFIED IN TABLE A BELOW, OR APPROVED EQUAL. GRID METAL FRAMING PIECES SHALL BE DESIGNED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOT LESS THAN 180 LBS. IN COMPRESSION AND TENSION, PER ASTM E580.

2. SUSPENSION WIRE SHALL BE CLASS 1 ZINC-COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641. WIRE SHALL BE #12 GAGE WITH SOFT TEMPER AND A MINIMUM TENSILE STRENGTH OF 70 KSI.

3. WHEN HANGER AND BRACING WIRES ARE ATTACHED TO CONCRETE ABOVE, TESTS PER D.S.A. IR 25-2.13 SECTION 6.8 MUST BE PERFORMED. POWER ACTUATED FASTENERS IN CONCRETE ARE NOT ALLOWED FOR BRACING WIRE.

4. 12 GA. (MINIMUM) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4'-0" x 4'-0 GRID SPACING, ATTACH TO MAIN RUNNER. SPLICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED BY D.S.A.

5. PROVIDE 12 GA. HANGER WIRES WITHIN 8" OF THE ENDS OF ALL MAIN AND CROSS RUNNERS OR AT 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, AT THE PERIMETER OF THE CEILING AREA.

6. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAINTAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1:6 OUT OF PLUMB ARE TO HAVE COUNTER-BRACED WIRES.

7. CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 3/4 INCH CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE AND A MINIMUM OF 3/4 INCH CLEAR OF WALL.

8. PERIMETER SUPPORT ANGLES SHALL BE AT LEAST 2 INCHES WIDE, OR USE PROPRIETARY ANGLES & SEISMIC CLIPS THAT HAVE A VALID EVALUATION REPORT.

9. AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16 GA. WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNERS MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNERS IS 8" OR LESS, THIS INTERLOCK IS NOT REQUIRED.

10. CEILING AREAS EXCEEDING 2,500 SQUARE FEET SHALL HAVE A SEISMIC SEPARATION JOINT.

11. EXPANSION JOINTS SHALL BE PROVIDED AT INTERSECTIONS OF CORRIDORS, LOBBIES AND OTHER SIMILAR AREAS.

12. PENETRATIONS THROUGH THE CEILING, SUCH AS FIRE SPRINKLERS, SHALL HAVE A 2 INCH OVERSIZED RING, SLEEVE OR ADAPTER TO ALLOW FREE MOVEMENT INDEPENDENT OF THE CEILING. ALTERNATE: A FLEXIBLE SPRINKLER FITTING THAT ALLOWS 1 INCH OF MOVEMENT CAN BE USED.

13. LATERAL FORCE BRACING IS REQUIRED FOR ALL CEILINGS, EXCEPT CEILING AREAS OF 144 SQUARE FEET OR LESS WITH PERIMETER WALLS THAT ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES. SPACING OF BRACING ASSEMBLIES MUST BE SHOWN ON THE PLANS.

14. LATERAL FORCE BRACING CONSISTS OF A SET OF 1 COMPRESSION STRUT AND FOUR #12 GA. SPLAYED BRACING WIRES, ORIENTED 90 DEGREES FROM EACH OTHER AT THE FOLLOWING SPACING:
    (A) FOR SCHOOL BUILDINGS, PLACE SETS OF SPLAY WIRES AT A SPACING NOT MORE THAN 12 FEET BY 12 FEET ON CENTER.
    (B) PROVIDE SPLAY WIRES AT LOCATIONS NOT MORE THAN 1/2 THE ABOVE SPACING FROM EACH PERIMETER WALL OR AT THE EDGE OF VERTICAL CEILING OFFSETS. THE SLOPE OF THESE WIRES SHOULD NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND SHOULD BE TAUT WITHOUT CAUSING THE CEILING TO LIFT. SPLICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL D.S.A. APPROVAL.

15. COMPRESSION STRUTS SHALL BE ABLE TO RESIST THE VERTICAL PULL INDUCED BY BRACING WIRES, AND SHALL NOT BE MORE THAN 1:6 OUT OF PLUMB.

16. FASTEN HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS WITHIN A DISTANCE OF 3 INCHES. FASTEN SPLAY WIRES WITH 4 TIGHT TURNS WITHIN A DISTANCE OF 1-1/2 INCHES. HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.

17. SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT ETC.

18. ATTACH ALL LIGHT FIXTURES AND AIR TERMINALS TO THE CEILING GRID RUNNERS WITH SCREWS OR APPROVED FASTENERS AS REQUIRED TO RESIST A HORIZONTAL FORCE EQUAL TO THE FIXTURES' WEIGHT. MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH LIGHT FIXTURE.

19. FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM, BUT THEY MUST HAVE A MINIMUM OF TWO #12 GA. SLACK SAFETY WIRES ATTACHED AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. FIXTURES WEIGHING LESS THAN 10 POUNDS MAY HAVE AT LEAST ONE #12 GA. SLACK SAFETY WIRE.

20. LIGHT FIXTURES AND OTHER CEILING DEVICES WEIGHING MORE THAN 56 POUNDS SHALL BE INDEPENDENTLY SUPPORTED BY NO LESS THAN FOUR (4) TAUT #12 GAGE WIRES, ATTACHED TO THE STRUCTURE ABOVE. WIRES MUST BE ABLE TO SUPPORT FOUR (4) TIMES THE WEIGHT OF THE UNIT.

21. ALL LIGHT-WEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID PER SECTION 2.6.3 OF D.S.A. IR 25-2.13. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS SHALL HAVE A #12 GAUGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE PER SECTION 7.2.2 OF D.S.A. IR 25-2.13. DEVICES WEIGHING MORE THAN 20 LBS. SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE PER SECTION 7.3.4 OF D.S.A. IR 25-2.13.

22. PANELS THAT WEIGH MORE THAN 0.5 LBS/SQ.FT. (PSF), OTHER THAN MINERAL FIBER ACOUSTIC TILES, SHALL BE POSITIVELY ATTACHED TO CEILING SUSPENSION RUNNERS.

23. ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL-FACED FIBERGLASS, LAY-IN PANELS, SQUARE EDGE, ASTM FLAME SPREAD CLASS T, 24"x48" MODULAR SIZE, LIGHT REFLECTION 75% MINIMUM, NOISE REDUCTION COEFFICIENT OF 0.65 MINIMUM, MAXIMUM SMOKE DENSITY NOT TO EXCEED 450. FLAME SPREAD RATING MAXIMUM OF 200. PANELS ARE NOT ALLOWED TO SUPPORT ANY FIXTURE, TERMINAL OR DEVICE.

24. THERMOSTAT SHALL BE PROGRAMMED TO PREVENT SUPPLEMENTARY HEATER OPERATION WHEN THE HEATING LOAD CAN BE MET BY THE HEAT PUMP ALONE. THE CUT-ON TEMPERATURE FOR COMPRESSION HEATING MUST BE HIGHER THAN THE CUT-ON TEMPERATURE FOR SUPPLEMENTARY HEATING, AND THE CUT-OFF TEMPERATURE FOR COMPRESSION HEATING MUST BE HIGHER THAN THE CUT-OFF TEMPERATURE FOR SUPPLEMENTARY HEATING PER CEC 2019 SECTION 110.2(b).

TABLE A - HEAVY DUTY GRID COMPONENTS

MANUFACTURER	MAIN TEE	H.D. 4' CROSS TEE	H.D. 2' CROSS TEE	RUNNER SPLICE DETAIL	ICBO ER REPORT
DONN/USG	DX-26	DX-424	DX-216	N/A	ICC-ESR-1222
ARMSTRONG	7301	XL7341	XL8320	N/A	ICC-ESR-1308
CHICAGO/ROCKFON	200.01	1274.01	1202.01	N/A	ICC-ESR-2631

NOTE: ALL GRID COMPONENTS SHALL BE BY THE SAME MANUFACTURER

METAL SUSPENSION SYSTEMS FOR LAY IN PANEL CEILING

HVAC CFM CHART

	MODEL #	DESCRIPTION	MAX. CFM	UNIT WEIGHT (LBS)	EER	COP	CLIMATE ZONE(S)
BARD WALL HUNG	W24HB	2 TON HEAT PUMP	818	500	11.3	3.3	1-16
	W30HB	2½ TON HEAT PUMP	1053	500	11	3.4	1-16

NOTE: FOR BARD PACKAGED VERTICAL UNITS, UTILIZE THE CRV-F5 OR EQUIVALENT VENTILATION KIT TO BRING IN OUTSIDE AIR.

HVAC CFM CHART

	MODEL #	DESCRIPTION	MAX. CFM	UNIT WEIGHT (LBS)	EER	COP	CLIMATE ZONE(S)
BARD ITECH		2 TON HEAT PUMP					
	* WHEN USING ITECH WHERE 2 TON HEAT PUMP IS SPECIFIED, USE 2½ TON UNIT SPECIFIED BELOW						
	I30H1-A	2½ TON HEAT PUMP	900	816	11.7	3.6	1-16

HVAC CFM CHART

	MODEL #	DESCRIPTION	AIR HANDLER MODEL # (INTERIOR OR ATTIC MOUNTED)	MAX. CFM	UNIT WEIGHT (LBS)	EER	SEER	CLIMATE ZONE(S)
CARRIER SPLIT DX SYSTEM	25HCE424A002	2 TON HEAT PUMP	FX4DN025	800	122	11.5	14.0	1-16
	25HCE430A003	2 1/2 TON HEAT PUMP	FX4DN031	1000	146	11.5	14.0	1-16

HVAC SCHEDULE

# OF HVAC CLIMATE ZONES 1-14		# OF HVAC CLIMATE ZONE 15		# OF HVAC CLIMATE ZONE 16	
2 TON HVAC	2½ TON HVAC	2 TON HVAC	2½ TON HVAC	2 TON HVAC	2½ TON HVAC
1			1	1	

MINIMUM INSULATION SCHEDULE

ZONE	WALL	ROOF		FLOORS (NON-CONCRETE)	CONCRETE FLOORS
		BATTS	RIGID		
1-2	*R-13	**R-19	R-10	R-13	N/A
3-15	*R-13	**R-19	R-5	R-13	N/A
16	*R-13	**R-19	R-15	R-13	N/A

* IN ADDITION TO R-13 BATT INSULATION, R-4 RIGID INSULATION TO BE USED OVER METAL FRAMED WALLS
** SECURED w/ 22 GA WIRE @ 16" O.C.

ADDITIONAL HVAC NOTES:
MANUAL OVERRIDE CONTROLS ARE A MANDATORY MEASURE UNDER ENERGY CODE SECTION 120.2(e).
ALL HVAC SYSTEMS SHALL HAVE A MANUAL OVERRIDE ACCESSIBLE TO THE OCCUPANTS THAT ALLOWS THEM TO TURN ON THE HVAC SYSTEM DURING NORMAL UNOCCUPIED TIMES. THIS CAN BE A MANUAL OVERRIDE FOR UP TO 4 HOURS, OCCUPANCY SENSOR, OR A 4 HOUR MANUALLY OPERATED TIMER.

HEATING VENTILATING AND AIR CONDITIONING (HVAC)

1. HEAT PUMP: SINGLE PACKAGE WALL-MOUNTED AIR-TO-AIR ELECTRIC HEAT PUMP UNIT SHALL BE RATED IN ACCORDANCE WITH A.R.I. STANDARD 240-77. MAXIMUM AC SIZE FOR THIS BUILDING WILL BE A 5-TON UNIT. ALL UNITS SHALL BE 230/208 VOLT, 1 PHASE SYSTEM, UL TESTED & APPROVED OR COMPARABLE, AND MEET CURRENT ENERGY STANDARDS.
   A. THE SYSTEM SHALL MAINTAIN AN AUTOMATICALLY CONTROLLED INDOOR CLASSROOM TEMPERATURE OF 78 DEGREES F. WHEN THE OUTDOOR DRY BULB TEMPERATURE VARIES BETWEEN 100 DEGREES F. IN THE SUMMER
   B. THE SYSTEM MUST MAINTAIN THE ABOVE TEMPERATURE WHEN THE DAMPER IS ADJUSTED TO USE APPROXIMATELY ONE-THIRD FRESH AIR. (DESIGN OUTSIDE AIR = 182 CFM)
2. DUCTWORK
   A. CONSTRUCT ALL DUCTWORK OF GALVANIZED SHEET METAL IN ACCORDANCE WITH C.M.C., ASHRAE GUIDE EQUIPMENT VOLUME, AND SMACNA LOW VELOCITY DUCT CONSTRUCTION MANUAL, LATEST EDITIONS. ALL DUCTWORK SHALL BE INSULATED WITH 1" THICK FIBERGLASS DUCT WRAP WITH VAPOR BARRIER. PROVIDE 1" DUCT ATTENUATION AT ALL DUCTWORK WITHIN 2'-0" OF HVAC UNIT.

HVAC SCHEDULES

HEATING VENTILATING AND AIR CONDITIONING (HVAC) continue

   B. NON-METALLIC DUCTWORK OPTION: IN ACCESSIBLE CONCEALED PORTIONS OF DUCT SYSTEM, RIGID 1" FIBERGLASS OR INSULATED FLEX-DUCT WITH VAPOR BARRIER MAY BE SUBSTITUTED FOR SHEET METAL DUCTWORK. ALL DUCTWORK WITHIN 2'-0" OF THE HVAC UNIT AND ALL INTERFACE CONNECTIONS SHALL BE METAL. DUCTWORK AND REINFORCEMENT SHALL BE DESIGNED FOR 2" STATIC PRESSURE. REFERENCE BRANDS: OWENS-CORNING FIBERGLASS DUCTBOARD, 1" THICK, AND MICRO-AIRE TYPE 475. NON-METALLIC DUCTWORK SHALL CONFORM TO NFPA 90-A AND SMACNA CLASS 1 RATING.
   C. DUCT INSTALLATION AND PLENUMS SHALL MEET THE REQUIREMENTS OF ENERGY CODE SECTION 120.4 AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. (MINIMUM R=4.2) HORIZONTAL FLEX DUCT SHALL BE SUPPORTED AT A MAXIMUM 4' INTERVALS, WITH HANGING STRAPS A MINIMUM 1-1/2" WIDE. DUCTS MUST BE PULLED TIGHTS WITH A MAXIMUM SAG OF 1/2" PER FOOT OF HORIZONTAL RUN. DUCTS SHALL NOT BE KINKED OR CRUSHED. BEND/RADIUS EQUAL TO THE DUCT DIAMETER OR GREATER.
   D. SIZES OF SUPPLY AND RETURN DUCTS SHALL BE SPECIFIED ON PLANS. HVAC CURB SUPPLY AND RETURN DUCTS SHALL BE THE SAME SIZE AND ALLIGN WITH THE HVAC UNIT.
   E. 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 AND CMC 603.4.1
3. AIR DUCT INSULATION AND LININGS SHALL COMPLY WITH FLAME SPREAD LESS THAN OR EQUAL TO 25, SMOKE GENERATION LESS THAN OR EQUAL TO 50.
4. SUPPLY AIR DIFFUSERS SHALL BE 675 CFM MAXIMUM, 12" ROUND. 1" FIBERGLASS OR FLEXDUCT DUCTWORK SPECIFICALLY DESIGNED TO PROVIDE AIR THERMAL COOLING SYSTEMS. 24"x8"x1" MICRO-AIRE TYPE #475 OWENS-CORNING, KNAUF, CERTAINTEED, OR EQUAL AND 90-B: UL #131 TEST, CLASS 1 RATING WITH "SMACNA".
5. REGISTERS AND DIFFUSERS: PROVIDE THREE (MINIMUM) 4-WAY THROW AIR DIFFUSERS AS MANUFACTURED BY CARNES, TITUS, HART AND COOLEY, METALAIRE, SHOEMAKER, BARBER-COLEMAN OR KRUEGER COMMERCIAL GRADE GRILLS AND REGISTERS.
6. AIR CONDITIONING CONTROLS: PROVIDE ELECTRONIC PROGRAMMABLE THERMOSTAT. THERMOSTAT SHALL BE PROGRAMMED WITH EXPECTED OCCUPIED TIMERS. AIR HANDLER FAN WILL BE PROGRAMMED TO RUN DURING ALL OCCUPIED TIMES. PRE-OCCUPANCY PURGE SHALL BE PROGRAMMED ONE HOUR PRIOR TO THE MODULAR BUILDING BEING NORMALLY OCCUPIED.
   THERMOSTAT SHALL HAVE THE FOLLOWING FUNCTIONS:
   C. 5 AND 2 WEEKDAY/WEEKEND PROGRAMMING DAYS WITH 4 SEPARATE TIME/TEMPERATURE SETTINGS FOR A 24-HOUR PERIOD.
   D. KEY BOARD LOCKOUT SWITCH.
   E. PROGRAMMABLE DISPLAY.
   F. 2-HOUR OVERRIDE MINIMUM.
   G. STATUS INDICATED LED'S.
   H. BATTERY BACK-UP.
   I. PROVIDE LOCKING CLEAR THERMOSTAT COVER WITH THERMOSTAT COVER WITH ACCESS HOLE FOR PROGRAM OVERRIDE. WHITE RODGERS IF92-371. MOUNT TOP OF BOX @ 48" A.F.F. MAX.
   (WHERE SEALED, SETTINGS & ADJUSTMENTS CAN BE DONE BY SERVICE PERSONNEL ONLY.)
7. THERMAL INSULATION
   A. ROOF INSULATION: R-19 WITH 22 GA. WIRE @ 16" O.C. & R-1 TOP OF PURLINS.
   B. WALLS INSULATION: R-13 KRAFT FACED. (R-4 INSULATION OVER METAL FRAMED WALLS)
   C. NON-CONCRETE FLOORS INSULATION: R-13
   D. CONCRETE FLOORS INSULATION: N/A
   E. FLAME SPREAD AND SMOKE DEVELOPMENT SHALL CONFORM TO CALIFORNIA BUILDING CODE SEC. 720.
8. FACTORY-MADE AIR DUCTS
   A. FACTORY-MADE AIR DUCTS SHALL BE APPROVED FOR THE USE INTENDED OR SHALL CONFORM TO THE REQUIREMENTS OF C.M.C. SECTION 601.0.
   B. EACH PORTION OF A FACTORY-MADE AIR DUCT SYSTEM SHALL BE IDENTIFIED BY THE MANUFACTURER WITH A LABEL OR OTHER SUITABLE IDENTIFICATION INDICATING COMPLIANCE WITH C.M.C. SECTION 601.0 AND ITS CLASS DESIGNATION. THESE DUCTS SHALL BE LISTED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF THEIR LISTING AND THE REQUIREMENTS OF C.M.C. SECTION 601.0.
   C. DUCT SUPPORT FLEX DUCT TO BE SUPPORTED WITH 1-1/2" WIDE x26 GA. GALV. STRAP @ MAX 4'-0" O.C. ATTACH TO RAFTER WITH TWO #8 S.M.S. @ EACH END.
   D. SUPPLY AIR PLENUM TO BE SUPPORTED WITH 1-1/2" WIDE x26 GA. GALV. STRAPS MINIMUM 2 PER PLENUM.
   E. SUPPLY AIR BOX AND DIFFUSERS TO BE SUPPORTED WITH (2) 12 GA. HANGER WIRES TO BOX @ OPPOSITE CORNERS.
   F. SUPPLY AIR BOX AND DIFFUSERS TO BE BRACED WITH (2) 12 GA. SLACK WIRES TO BOX @ OPPOSITE CORNERS. ATTACH SUPPLY AIR DIFFUSERS TO CEILING GRID TO RESIST A LATERAL LOAD EQUAL TO THE WEIGHT OF THE DIFFUSER AND SUPPLY AIR BOX WITH TWO #8 S.M.S.
9. FIREBLOCKING SHALL BE PROVIDED IN THE FOLLOWING LOCATIONS:
   A. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES;
   B. AT THE CEILING AND FLOOR LEVELS;
   C. AND AT 10-FOOT (3048mm) INTERVALS BOTH VERTICAL AND HORIZONTAL.
   REFERENCE 2019 CBC SECTION 718.
10. THE INTERIOR ENVIRONMENT SHALL BE ASSEMBLED WITH PRODUCTS THAT CONTRIBUTE TO A HEALTHY INDOOR AIR QUALITY (IAQ). THE FOLLOWING SHALL COMPLY TITLE 24, PART 11 ("CAL-GREEN"), SECTION 5.504.4.
    (SEE SHEET N1.0, SECTION 9C "INTERIOR AIR QUALITY CONTROL")
11. HVAC FILTER
    A. FILTERS SHALL HAVE A "MINIMUM EFFICIENCY REPORTING VALUE" OF 13 WITH 2" DEPTH MIN. (MERV 13) AND SHALL BE INSTALLED PRIOR TO OCCUPANCY AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL, PER 2019 CEC SECTION 5.504.5.3
    D. INSTALLED FILTERS SHALL BE CLEARLY LABELED BY THE MANUFACTURER INCLUDING THE MERV RATING, PER 2019 CBC SECTION 5.504.5.3.1
12. ROOF MOUNTED HVAC
    A. 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 DUCTS.
13. HVAC CONTROLS
    A. THERMOSTAT (BY OTHERS) WILL BE PROGRAMMED WHEN THE MODULAR BUILDING IS PLACED ON A SITE TO ENSURE THE MINIMUM AIR RATE WILL BE SUPPLIED TO THE SPACE AT ALL USUALLY OCCUPIED TIMES AND PROGRAMMED TO PROVIDE A PRE-OCCUPANCY PURGE ONE HOUR PRIOR TO THE MODULAR BUILDING BEING NORMALLY OCCUPIED PER ENERGY CODE 120.1(c)1.
14. UPON SITE PLACEMENT OR SITE CONSTRUCTION, THE OPERATION AND MAINTENANCE DOCUMENTATION FOR ALL MECHANICAL AND LIGHTING SYSTEMS AND CONTROLS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR FOR THE PERMANENT MODULAR RELOCATABLE BUILDING AND DELIVERED TO THE OWNER.
15. THE CALIFORNIA ENERGY CODE 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.
16. LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROL ACCEPTANCE TEST TECHNICIAN (ATT). MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021. ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.
17. A LISTING OF CERTIFIED ATT'S CAN BE FOUND AT:
    HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE.
    THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF PROJECT INSPECTORS WILL BE COLLECTING THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

HVAC NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING
FORM®

SITE SPECIFIC PROJECT NAME
.
.
.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
ANTHONY PATRICK CONLEY
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

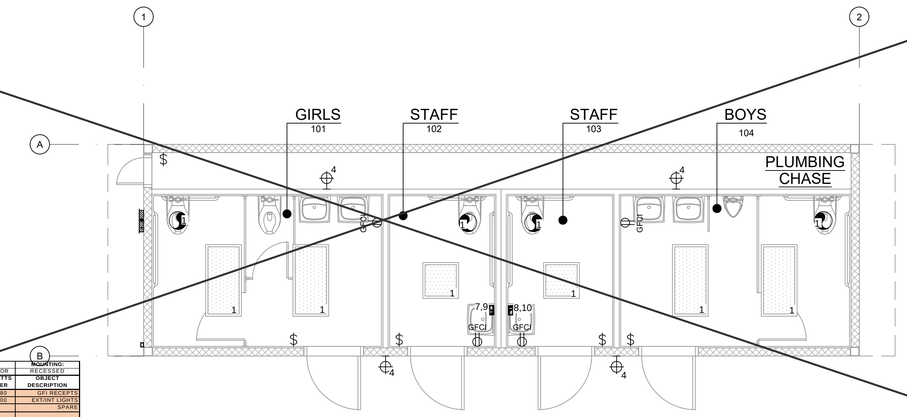
THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS
1
2
3
4

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

SHEET TITLE:
CEILING & MECHANICAL NOTES, & SCHEDULES

SHEET NUMBER:
M1.7



B

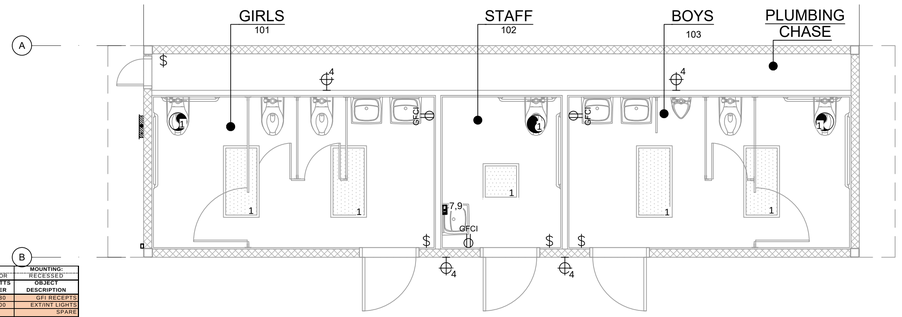
Panel:	EP			PHASE: SINGLE		VOLTS: 120/240		MAIN (AMPS): 100			BUSS (AMPS): 125			LOCATION: EXTERIOR		FEED: OUTBACK - ABOVE FLOOR			MOUNTING: RECESSED	
OBJECT DESCRIPTION	WATTS PER	QTY	LCL	WATTS A	WATTS B	BRK	POLE	WIRE SIZE	CKT #	LEG A	LEG B	CKT #	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	LCL	QTY	WATTS PER	OBJECT DESCRIPTION
LIGHTS/EX FANS	1340	1		1340		20	1	#12	1	X		2	#12	1	20	1080			6	180	GFI RECEPTS
SPARE		1			1	20	1	#12	3		X	4	#12	1	20		400		1	400	EXT/INT LIGHTS
SPARE				0		20	1	#12	5	X		6	#12	1	20						SPARE
INSTANT H/W	3000	1			3000	30	2	#10	7		X	8	#10	2	30		3000		1	3000	INSTANT H/W
				0					9	X		10				0					
					0				11		X	12					0				
				0					13	X		14				0					
					0				15		X	16					0				
				0					17	X		18				0					
					0				19		X	20					0				
				0					21	X		22				0					
	LEG TOTALS			1340	3000											1080	3400	LEG TOTALS			

LCL+0+8821=8821

TOTAL WATTS: 8821 | LEG BALANCE: 45.1% | TOTAL AMPS: 36.75

ELECTRICAL PLAN

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



B

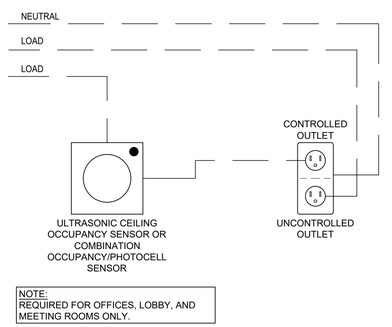
Panel:	EP			PHASE: SINGLE		VOLTS: 120/240		MAIN (AMPS): 100			BUSS (AMPS): 125			LOCATION: EXTERIOR		FEED: OUT BACK - ABOVE FLOOR			MOUNTING: RECESSED	
OBJECT DESCRIPTION	WATTS PER	QTY	LCL	WATTS A	WATTS B	BRK	POLE	WIRE SIZE	CKT #	LEG A	LEG B	CKT #	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	LCL	QTY	WATTS PER	OBJECT DESCRIPTION
LIGHTS/EX FANS	1340	1		1340		20	1	#12	1	X		2	#12	1	20	1080			6	180	GFI RECEPTS
SPARE		1			1	20	1	#12	3		X	4	#12	1	20		400		1	400	EXT/INT LIGHTS
SPARE				0		20	1	#12	5	X		6	#12	1	20						SPARE
INSTANT H/W	3000	1			3000	30	2	#10	7		X	8	#10	2	30		3000		1	3000	INSTANT H/W
				0					9	X		10				0					
					0				11		X	12					0				
				0					13	X		14				0					
					0				15		X	16					0				
				0					17	X		18				0					
					0				19		X	20					0				
				0					21	X		22				0					
	LEG TOTALS			1340	3000											1080	3400	LEG TOTALS			

LCL+0+8821=8821

TOTAL WATTS: 8821 | LEG BALANCE: 45.1% | TOTAL AMPS: 36.75

ELECTRICAL PLAN

SCALE: 1/4" = 1' - 0" | 2



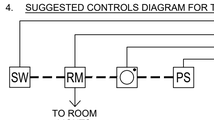
NOTE:
REQUIRED FOR OFFICES, LOBBY, AND MEETING ROOMS ONLY.

TYP. CONTROLED/UNCONTROLED RECEPTACLE WIRING DIAGRAM

N.T.S. | 3

ENERGY CONTROLS

1. AUTOMATIC DAYLIGHTING CONTROLS:
   NOT REQUIRED IN ROOMS WHERE COMBINED INSTALLED LIGHTING POWER IN COMBINED SKYLIT & PRIMARY DAYLIT ZONES ARE <120 WATTS. INSTALLED WATTAGE IN PRIMARY SIDELIT DAY LIT ZONE IS 90 WATTS (2x 45w, AS SHOWN IN THE SHADED AREAS). THEREFORE, AUTOMATIC DAYLIGHTING CONTROLS ARE ONLY REQUIRED WHEN "SOLATUBES" ARE INSTALLED. SEE A1.1. WHEN DAYLIT CONTROLS ARE REQUIRED, PROVIDE COMBINATION OCCUPANCY/PHOTOCELL SENSOR.
2. ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) CONNECTION:
   PER TITLE 24 CODE, "AN EMCS MAY BE INSTALLED TO COMPLY WITH THE REQUIREMENTS OF ONE OR MORE LIGHTING CONTROLS IF IT MEETS THE MINIMUM REQUIREMENTS". PC MAY CONTAIN OCCUPANCY SENSORS AND PHOTOCELL CONTROL LIGHTING, IN THAT CASE, AN EMCS IS NOT REQUIRED FOR THIS PC.
3. SOLAR-READY ZONE REQUIREMENTS:
   REQUIREMENTS & TABLE CAN BE FOUND ON SHEET A2.0
4. SUGGESTED CONTROLS DIAGRAM FOR TYPICAL DAYLIT ZONE:



NOTE: ANT MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED IN THE BASE PC.

ENERGY NOTES

1. THE PROJECT ARCHITECT SHALL BE RESPONSIBLE FOR THE PLACEMENT OF HEAT & SMOKE DETECTORS, EVACS AND PULL STATIONS, AND COMPLETE FIRE ALARM SYSTEM WHEN THE SITE SPECIFIC PROJECT IS REQUIRED TO MEET THE PROVISIONS OF SB 575 & CBC 907.2.3.
2. ANY MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED IN THIS BASE PC.
3. PULL STATIONS ARE REQUIRED AT EVERY EXIT. AT ANY SPACE REQUIRING 2 OR MORE EXITS, PROVIDE EXIT SIGNS (CBC 1013) AND EMERGENCY EXIT ILLUMINATION (CBC 1008).
4. SEE PLANS FOR LOCATIONS OF ALL DEVICES.
5. STUB-OUT LOCATIONS FOR ELECTRICAL PANEL, FIRE ALARM, AND DATA BOXES ARE SHOWN DIAGRAMMATICAL ONLY. EXACT LOCATIONS MAY VARY +/- SEVERAL FEET. PLEASE CONTACT AMERICAN MODULAR SYSTEMS FOR EXACT LOCATIONS. POINT OF CONNECTION WILL BE AT FACE OF BUILDING.
6. STUB-UP ALL FIRE ALARM JUNCTION BOXES TO ACCESSIBLE ATTIC SPACE WITH 1/2" MIN. GALV. THIN WALL TUBING (EMT). DO NOT CONNECT FIRE ALARM CONDUIT WITH ANY OTHER ELECTRICAL CONDUIT.
7. THE LIGHTS FOR EACH ROOM OVER 250 SQ FT SHALL BE CONTROLLED BY ULTRASONIC OCCUPANCY SENSOR: WATT STOPPER W-500A, W-1000A, OR W-2000A (OR EQUAL) BASED ON THE ROOM SIZE, IN CONJUNCTION WITH BI-LEVEL SWITCHING.
8. FIXTURE MOUNTING SHALL COMPLY WITH CALIFORNIA SEISMIC REGULATIONS.
9. LIGHTING FIXTURES MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-BAR GRID LAYOUT.

DEMAND RESPONSE CONTROLS

1. DEMAND RESPONSE CONTROLS ARE REQUIRED IN BUILDINGS LARGER THAN 10,000 S.F.
2. DEMAND RESPONSE CONTROLS, WHERE REQUIRED, ARE TO BE PROVIDED BY OTHERS.
3. DEMAND RESPONSE CONTROLS AND EQUIPMENT SHALL BE CAPABLE OF RECEIVING AND AUTOMATICALLY RESPONDING TO AT LEAST ONE STANDARD-BASED MESSAGING PROTOCOL WHICH ENABLES DEMAND RESPONSE AFTER RECEIVING A DEMAND SIGNAL.
4. SITE-SPECIFIC PROJECTS WHICH REQUIRE DEMAND RESPONSE CONTROLS MUST INCLUDE THE SUBMITTAL OF FORM NRCC-ELC-O1-E TO DSA (BY OTHERS).

GENERAL NOTES

- ELECTRICAL PANEL - MOUNT FLUSH WITH WALL FINISH, U.O.N.
- EXTERIOR LIGHT FIXTURE @ EACH DOOR, LED OR EQUAL (MAX 40W) - WHERE THERE ARE TWO OR MORE EXITS, A MINIMUM 90 MIN. BATTERY BACK-UP IS REQUIRED
- UNCONTROLLED-DUPLEX WALL CONVENIENCE OUTLET - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N.
- GFCI GROUND FAULT CIRCUIT INTERRUPT OUTLET - MOUNT @ 18" A.F.F. TO CENTERLINE - U.O.N.
- $ CONTROLLED-SINGLE POLE LIGHT SWITCHES - MOUNT @ +48" A.F.F. MAX TO TOP OF BOX - HUBBELL PREMIUM, BRYANT HEAVY DUTY, OR LEVITON SPECIFICATIONS GRADE.
- ULTRASONIC OCCUPANCY SENSOR - MOUNTED TO FINISH CEILING (PROVIDE WITH COMBINATION PHOTOCELL SENSOR WHEN DAYLIT CONTROLS ARE REQUIRED)
- 2'x4' LED EDGE FIT FIXTURE, MODEL: LSI, SFP24 5601K LUMENS - 45 WATTS MAX OR EQUAL
- 2'x2' LED EDGE FIT FIXTURE, MODEL: LSI, SFP22 3163K LUMENS - 30 WATTS MAX OR EQUAL

STANDARD ELECTRICAL SYMBOLS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

MMM
STOCKPILE
(20) 12'x40' BUILDINGS

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
JOSEPH PATRICK GRENSHAW
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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

REVISIONS

1	
2	
3	
4	

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	05/02/2023
PROJECT NO:	1790-23

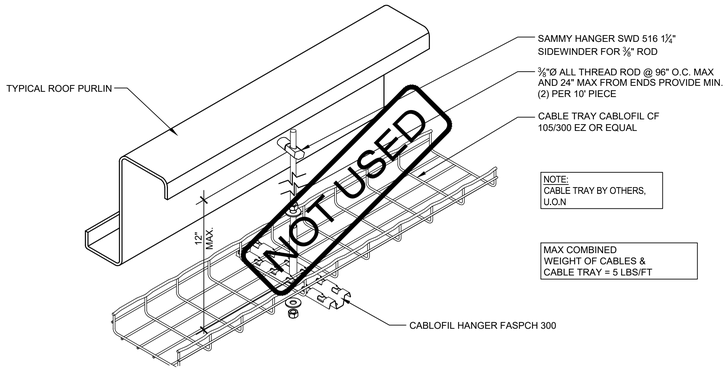
SHEET TITLE:

ELECTRICAL PLANS
&
SYMBOLS LEGEND

SHEET NUMBER:

E1.0

G:\XXXX_24+40+60\1790-23\PLOT\1790-23 PC.dwg, 5/2/2023 2:24:27 PM, Plot by Hoang Anh Nguyen, \\192.168.1.5\plot\HP DesignJet T1700dr PostScript (C4S81A)

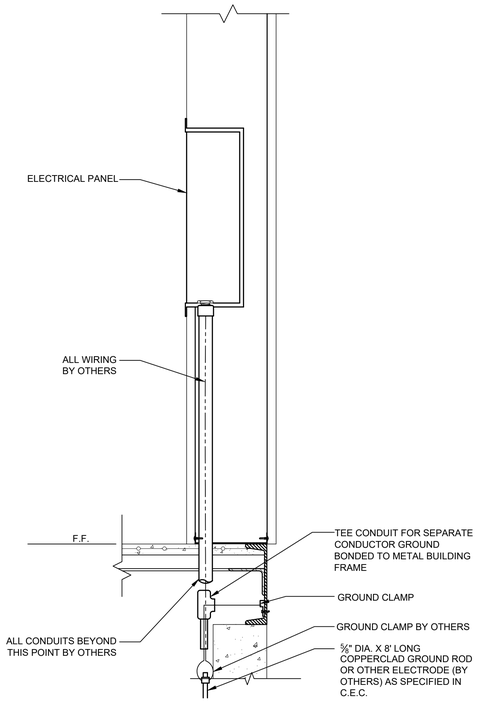


CABLE TRAY DETAIL

SCALE: N.T.S. | 1

NOT USED

2



1. SIZE OF CONDUCTORS SHALL COMPLY w/CEC.A
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL & METAL BUILDING FRAME (CEC). IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10' INTO THE SOIL IF AVAILABLE (CEC).
3. ELECTRICAL BOND MODULES TOGETHER W/#8 CU @ MODLINE, BY MANUFACTURER. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS (CEC) AS REQUIRED. GROUNDING DETAIL PER DSA IR E-1. INSPECTOR TO WITNESS GROUNDING TEST.

ELECTRICAL PANEL CONNECTION DETAIL - UNDERFLOOR OPTION

SCALE: 1-1/2" = 1' - 0" | 3

PANEL: A	PHASE:			VOLTS:		BUSS:			MAIN:			LOCATION:			FEED:				MOUNTING:
S/N:	SINGLE			120/240		125 AMP			100			INTERIOR			BOTTOM				SURFACE
OBJECT DESCRIPTION	WAT PER	NO. OF	LCL	WATTS A	WATTS B	BRK	POLE	WIRE SIZE	CKT NO	A	B	CKT NO	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	LCL	NO OF	WATTS PER	OBJECT DESCRIPTION
INT. LIGHTS-LED	40	8	x	320		20	1	#12	1	X		2	#8	1	60	5760		x	/	5760	4 TON A/C H/VAC UNIT
BLANK/SPARE					0				3		X	4	#6	1	60		5760	x	/	5760	4 TON A/C H/VAC UNIT
EXT. LIGHTS	75	1	x	75		20	1	#12	5	X		6				0				*	F.A.C.P.
REC-CONTROLLED	180	1	x		180	20	1	#12	7		X	8					0			*	FUTURE SOLAR ELEC
REC-UNCONTROLLED	180	1	x	180		20	1	#12	9	X		10				0					BLANK/SPARE
REC-GFIC	180	1	x		180	20	1	#12	11	X		12					0				BLANK/SPARE
	LEG TOTALS			575	360											5760	5760	LEG TOTALS			
LCL=3113.75+12455=15568.75																					
TOTAL WATTS=15568.75									LEG BALANCE = 1.7%											TOTAL AMPS: 64.87	

NOTE:
FIRE ALARM DEDICATED CIRCUIT SHALL BE IDENTIFIED WITH A RED MARKED DISCONNECT WITH LOCK-ON CAPABILITY (NFPA 72 10.6.5.2)

LOAD PANEL CALCULATIONS

FIRE ALARM SYSTEM

1. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE, CALIFORNIA FIRE CODE AND THE CALIFORNIA BUILDING CODE.
2. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTINGS FOR EACH COMPONENT OF THE SYSTEM, HAVE BEEN APPROVED BY DSA.
3. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.
4. JUNCTION BOXES - GALVANIZED SHEET METAL, SQUARE OR RECTANGULAR WITH BLANK COVERS. LOCATE ONE BOX AT REAR OF BUILDING NEAR MAIN ELECTRICAL PANEL @ +18" ABOVE FINISH FLOOR FOR FUTURE CONNECTION.
5. COVERS - INSTALL GASKETED, METAL, WATERPROOF, FINISH COVERS AT EXTERIOR LOCATIONS. INSTALL FINISH COVERS AT INTERIOR LOCATIONS.
6. THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHALL'S REGULATIONS (CBC SEC. 907.2.3) AND THE 2016 EDITION OF NFPA 72.
7. THE LOCATION OF AUTOMATIC DETECTORS, MANUAL STATIONS AND OTHER FIRE ALARM EQUIPMENT AND DEVICES, AS SHOWN ON PLAN, ARE FOR REFERENCE ONLY AND DO NOT CONSTITUTE SHOP DRAWINGS WHICH ARE REQUIRED FOR REVIEW AND APPROVAL.
8. ALARM-INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 dBA ABOVE THE AVERAGE AMBIENT NOISE LEVELS OR 5dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS, WHICHEVER IS GREATER, MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL WHICH CAN NORMALLY BE EXPECTED WHEN THE FACILITY, BUILDING, ROOM, OR AREA IS FUNCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS (NFPA 72, SEC. 18.4.1).
9. THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEEDING TWO FLASHES PER SECOND (2 HZ), NOR BE LESS THAN ONE FLASH EVERY SECOND (1 HZ). STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHALL APPROVED AND LISTED (NFPA 72, SEC. 18.5.3).
10. AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 CHAPTER 26 AS AMENDED BY ARTICLE 91. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER. IF TESTING RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET 15db OVER AMBIENT NOISE LEVELS, ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY THE ENFORCING AGENCY.

NOTE:
SEE SHEET M1.0 FOR ALL BRACING AND ANCHORAGE NOTES.

GENERAL NOTES

1. GROUNDING ELECTRODE CONDUCTOR SIZED PER CEC.
2. PROVIDE BONDS TO BLDG. STEEL & PANEL (#8 CU)
3. PANEL TO LISTED FOR USE AS SERVICE EQUIPMENT.
4. ALL PANELS, SWITCHES, DISCONNECTS, BREAKERS, METERS, AND OTHER ELECTRICAL ELEMENTS SHALL BE PLACED ABOVE THE ELEVATION REQUIRED BY ASCE 24-14, SECTION 7.2.
5. WHERE FLEXIBLE CONDUIT IS PASSING BETWEEN BUILDING SEPARATION JOINTS, PROVIDE SUFFICIENT LENGTH OF CONDUIT TO PERMIT DIFFERENTIAL DISPLACEMENTS BETWEEN BUILDINGS IN COMPLIANCE WITH ASCE 7 SECTION 13.6.9. ADDITIONAL CONDUIT & JOINT DETAIL SHALL BE PROVIDED BY OTHERS.

FIXTURE NOTES:

1. ALL FLUORESCENT LIGHT FIXTURES SHALL HAVE ENERGY SAVING LAMPS AND BALLASTS.
2. LUMINARIES/BALLASTS SHALL BE CERTIFIED PER CALIFORNIA BUILDING CODE, TITLE 24.
3. FLUORESCENT LIGHT FIXTURE TYPE "A" SHALL BE CONTROLLED TO PROVIDE TWO LEVELS OF LIGHTING. SWITCH (SA) SHALL CONTROL THE TWO OUTER LAMPS AND SWITCH (SB) SHALL CONTROL THE TWO INNER LAMPS.
4. ELECTRICAL SERVICE DROP AND CONNECTIONS SUPPLIED BY OTHERS.
5. MANUFACTURER TO PROVIDE STUB-OUT FROM BACK OF ELECTRICAL PANEL THROUGH THE EXTERIOR WALL OR TO BELOW FLOOR FOR RECEIVING EITHER UNDERGROUND OR OVERHEAD SERVICE & FITTING FOR GROUNDING CABLE.
6. ELECTRICAL PANEL BOARD SHALL BE RECESS MOUNTED INSIDE THE BUILDING, SIZED TO ACCOMMODATE ALL CONNECTED LOADS INCLUDING SPACES AS SHOWN. OVERCURRENT PROTECTIVE DEVICES IN THE PANEL BOARDS SHALL HAVE ADEQUATE SHORT CIRCUIT INTERRUPTING CAPACITY. ALL BUSES INCLUDING BUS SHALL BE COPPER OR ALUMINUM.
7. 2X4 FLUORESCENT FIXTURES SHALL HAVE A STEEL FRAME, LENS SHALL BE HINGED AND LOCKED IN PLACE BY TWO LOCKING DEVICES. THE LENS DIFFUSERS SHALL BE KHS, INC. #KSH-2, CAROLITE, INC. #C-12 OR PLASKOLITE, INC. #PL21A. MINIMUM LENS THICKNESS SHALL BE 0.125 INCHES.
8. FLUORESCENT BALLAST SHALL BE ENERGY SAVER WHILE MAINTAINING FULL LIGHT OUTPUT, CLASS "P" EQUIPPED WITH THERMAL PROTECTORS, GUARANTEED AGAINST FAILURE FOR (2) YEARS AND BE REPLACEABLE FROM INSIDE THE FIXTURE.
9. CLOCK - 12" DIAL CLOCK ON CLOCK OUTLET.
   A. CLOCK SHALL BE GENERAL ELECTRIC MODEL 2912 129V 60 CYCLE
   B. CLOCK OUTLET SHALL BE BRYANT #2828 OR EQUAL WITH SEPARABLE HANGING CLIP & APP'D RECEPT. THE H.V.A.C. UNIT FEEDER CIRCUIT - PANEL CIRCUIT BREAKER, FEEDER WIRE, UNIT DISCONNECT AND FUSES (WHERE USED) - IS TO BE COORDINATED WITH THE NAME PLATE DATA AT THE TIME OF MANUFACTURE. H.V.A.C. UNITS HAVING KVA RATINGS LARGER THAN THAT INDICATED ON THIS PANEL SCHEDULE WILL NOT BE ALLOWED TO BE INSTALLED ON THIS BUILDING.
   C. IF 60 DEGREES WIRE IS TO BE USED IN THIS INSTALLATION, CALCULATIONS DEMONSTRATING AMPACITY SHALL BE PROVIDED ON THE DRAWING.

GENERAL NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING
FORM®

SITE SPECIFIC PROJECT NAME
.
.
.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
VIRGINIA PATRICK CARNEY
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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

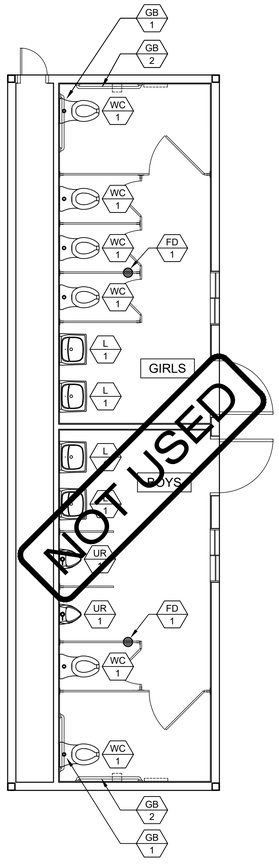
REVISIONS
1
2
3
4

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

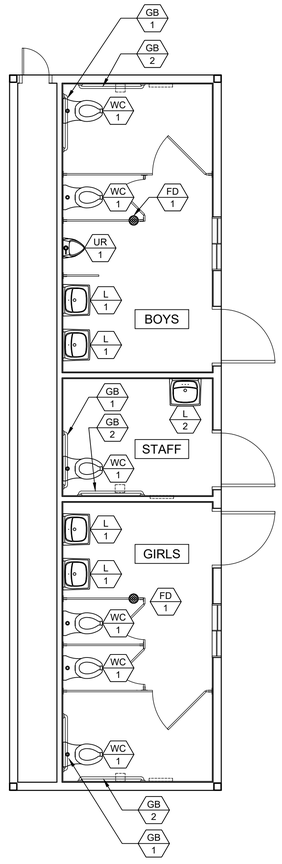
SHEET TITLE:
ELECTRICAL NOTES & DETAILS

SHEET NUMBER:
E1.2

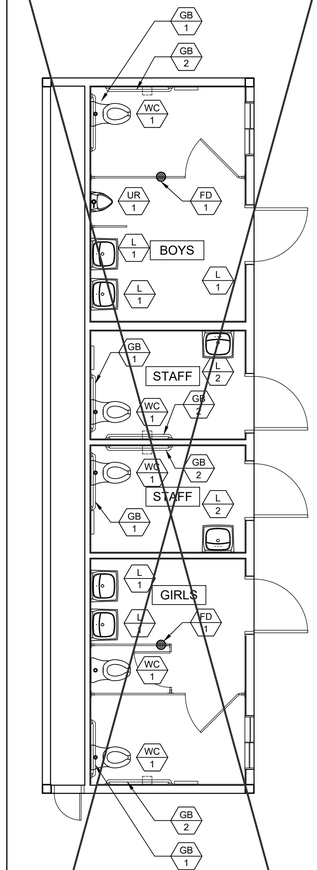
NOT USED



RESTROOM OPTION #1 SCALE : 1/4"=1'-0" | 1



RESTROOM OPTION #2 SCALE : 1/4"=1'-0" | 2



RESTROOM OPTION #3 SCALE : 1/4"=1'-0" | 3

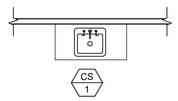
MARK	FIXTURE[1]	TYPE AT KINDERGARTEN (AGES 3-4)	TYPE AT ELEMENTARY (AGES 5-8)	TYPE AT MIDDLE SCHOOL (AGES 9-12)	TYPE AT HIGH SCHOOL (AGES 13-ADULT)	REMARKS
WC 2 / 1 / ADA	WATER CLOSET	CANNOT USE	WALL MOUNT TYPE KOHLER 'KINGSTON' MODEL K-4325 OR EQUAL. LOWEST AT 12" A.F.F. - FLOW RATE OF 1.28 G.P.F.	WALL MOUNT TYPE KOHLER 'KINGSTON' MODEL K-4325 OR EQUAL. LOWEST AT 15" A.F.F. - FLOW RATE OF 1.28 G.P.F.	WALL MOUNT TYPE KOHLER 'KINGSTON' MODEL K-4325 OR EQUAL. LOWEST AT 17" A.F.F. - FLOW RATE OF 1.28 G.P.F.	FLUSH VALVE ZURN MODEL Z6000AV-HET - 1.28 G.P.F OR EQUAL. LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE.
WC 2	WATER CLOSET	FLOOR MOUNT TANK TYPE AMERICAN STANDARD #3128.001 FOR BOWL #4019.228 LEFT TANK #4019.828 RIGHT TANK	FLOOR MOUNT TANK TYPE AMERICAN STANDARD w/2L205ST SEAT (2" THICK) #3128.001 FOR BOWL #4019.228 LEFT TANK #4019.828 RIGHT TANK	FLOOR MOUNT TANK TYPE KOHLER 'WELLWORTH' MODEL K-3998 OR EQUAL	FLOOR MOUNT TANK TYPE KOHLER 'WELLWORTH' MODEL K-3999 OR EQUAL ADA COMPLIANT	WC/2 FIXTURE MAX FLOW RATE OF 1.28 G.P.F - LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE.
WC 3 / ADA / OPTIONAL	WATER CLOSET	FLOOR MOUNT FLUSH VALVE TYPE KOHLER 'PRIMARY' MODEL K-96064 OR EQUAL. FLOW RATE OF 1.28 G.P.F.	FLOOR MOUNT FLUSH VALVE TYPE KOHLER 'JUVENILE ULTRA' MODEL K-96059 OR EQUAL - FLOW RATE OF 1.28 G.P.F.	FLOOR MOUNT FLUSH VALVE TYPE KOHLER 'WELLCOMME ULTRA' MODEL K-96053 OR EQUAL - FLOW RATE OF 1.28 G.P.F.	FLOOR MOUNT FLUSH VALVE TYPE KOHLER 'HIGHCLIFF ULTRA' MODEL K-96057 OR EQUAL - FLOW RATE OF 1.28 G.P.F.	FLUSH VALVE ZURN MODEL Z6000AV-HET - 1.28 G.P.F OR EQUAL. LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE.
L 1	BOYS/GIRLS LAVATORY	KOHLER 'KINGSTON' MODEL K-2007-0				BOY/GIRL RESTROOM - ZURN MODEL 86100-XL-3M - COLD WATER ONLY - SINGLE SPOUT MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0 - FLOW RATE OF 0.5 G.P.M. METER FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MIN.
L 2	ADULT LAVATORY	KOHLER 'KINGSTON' MODEL K-2005-0				ADULT RESTROOM - ZURN MODEL Z7440-XL-FC HOT/COLD WATER - 4" ON CENTER HOLE. MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE - FLOW RATE OF 0.5 G.P.M,
UR 1	URINAL	WALL MOUNT TYPE KOHLER MODEL DEXTER K-5452-ET-0 OR EQUAL FLOW RATE = 0.125 gpf				FLUSH VALVE ZURN MODEL Z6003-ULF (0.125gpf) OR EQUAL. MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE.
M 1	MIRROR	WALL MOUNT TYPE BOBRICK MODEL B165 18X30 OR EQUAL				MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE MIRROR PER SCHEDULE.
GB 1	36" GRAB BARS	WALL MOUNT TYPE CREATIVE SPECIALTIES INTERNATIONAL MODEL 8736 & 8748 (1 1/4" CONCEALED SCREW 36"& 48") OR EQUAL				18 GA. 304 STAINLESS STEEL SATIN FINISH MOUNT AS SPECIFIED IN FLOOR PLANS AND PER SCHEDULE 10/P2.0. (STRUCTURAL STRENGTH OF GRAB BARS 250# MIN.)
GB 2	48" GRAB BARS					
WH 1	WATER HEATER	RHEEM 20 GALLON ELECTRIC WATER HEATER MODEL PROE20-1-RH-POU 240 VOLT SINGLE PHASE				AVAILABLE IN 6, 10, 20 AND 30 GALLON MODELS (MAX WATER HEATER WEIGHT) PER 6/M1.4 OR 1/P2.0
ITWH 1	INSTANT-TEMP WATER HEATER	CHRONOMITE INSTANT-TEMP WATER HEATER MODEL M20L/240 INSTANT SINGLE PHASE 104"				CHRONOMITE MODEL M20L/208 OR EQUAL SEE DETAIL 3/P3.0
FS 1	CUSTODIAN SINK	FLORESTONE FLOOR SINK MOLDED MOP RECEPTORS MODEL MSR-2424 W/ 3" DRAIN OR EQUAL				ZURN 843-MI-RC OR EQUAL
ULS 1	UTILITY SINK	WALL MOUNT TYPE FLORESTONE FM OR EQUAL				CAITLIN CBK110CP OR EQUAL
FD 1	FLOOR DRAIN	WOOD FLOOR DRAIN SIOUIX CHIEF MODEL MODEL 822-2DNRV OR EQUAL				LOCATE AS SPECIFIED ON FLOOR PLANS.
FD 2	FLOOR DRAIN	CONCRETE FLOOR DRAIN ZURN MODEL P415-CC W/ STANDARD GRATE ZURN 33160-002 OR EQUAL				LOCATE AS SPECIFIED ON FLOOR PLANS. (FLOOR DRAIN TO BE USED ON CONCRETE ONLY.) 1/4" MAX. OPENING IN ALL DIRECTIONS AT DRAIN GRATE
CS 1	CLASSROOM SINK	ROC MODEL 25103 25X22 SINGLE BOWL SINK OR EQUAL				FAUCET - ZURN MODEL Z2671-B4-XL W/WRIST BLADES. LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER DETAILS 4 & 6/P3.0.
DF 1	DRINKING FOUNTAIN	ELKAY MODEL EDFP217C WALL MOUNT WATER FOUNTAIN OR EQUAL				ELKAY MODEL EDFP217C SEE DETAIL 5/P3.0
HB 1	HOSE BIBB	STANDARD HOSE BIBB ARROWHEAD MODEL 353LKLF OR EQUAL				LOCATE AS SPECIFIED ON FLOOR PLANS.

NOTES:
1. ALL WATER FIXTURES MUST MEET REQUIREMENTS OF CAL-GREEN TITLE 24, PART 11, SECTION 5.303.3 "WATER CONSERVING PLUMBING FIXTURES & FITTINGS".
2. FOR OPTIONAL ACCESSIBLE FLOOR-MOUNT WATER CLOSET, SEE PLUMBING SCHEDULE MARK WC/3 (NOT SHOWN ON PLAN).
3. NOT ALL ITEMS LISTED MAY OCCUR IN THIS PROJECT.
4. THERE SHOULD BE NO SHARP OR ABRASIVE UNDER LAVS OR SINKS.

PLUMBING FIXTURE SCHEDULE

NOT USED | 4A

NOT USED | 4B



CLASSROOM SINK PLAN SCALE : 1/4"=1'-0" | 5

A 1 = PLUMBING FIXTURE I.D. - SEE SCHEDULE ABOVE

SYMBOLS LEGEND

PLUMBING NOTE

MODULAR MFR. TO STUB THROUGH FLOOR ALL PLUMBING LINES. BUILDING PERIMETER POC'S SHOWN ARE FOR COORDINATION PURPOSES ONLY. ALL UNDER-FLOOR CONNECTIONS ARE BY SITE CONTRACTOR, U.O.N.

1. DIMENSIONS ARE TO FACE OF FINISH (F.O.F.) UNLESS NOTED OTHERWISE (i.e. F.O.C., ℄)
2. RESTROOM CONFIGURATION MAY VARY PER BUILDING CONFIGURATION.
3. RESTROOM MODULE OCCURS ONLY AT END OF BUILDING. SINGLE RESTROOMS MAY OCCUR IN ANY PART OF A BUILDING.
4. RESTROOM MODULE CANNOT STAND ALONE AND SHALL BE ASSEMBLED TOGETHER WITH AT LEAST ONE OTHER 12'x40' MODULE.
5. INTERIOR WALLS MAY OCCUR THROUGHOUT BUILDING. REFER TO SHEET S8.1 OR S9.1 FOR ATTACHMENTS.
6. REFER TO SCHEDULE 10/P2.0 FOR ACCESSIBLE HEIGHTS AT TOILETS.
7. REFER TO DETAILS 1, 3, 4 & 5, SHEET A7.1 FOR TOILET PARTITION ANCHORAGE BLOCKING.
8. SEWER AND WATER STUB OUTS SHALL BE LOCATED WITHIN THE ALLOWABLE AREA AS SHOWN ON FLOOR PLAN AND CONNECTIONS SHALL BE EASILY ACCESSIBLE FOR FUTURE RELOCATION. STUB OUT HEIGHT SHALL BE COORDINATED BY THE MANUFACTURER.
9. PIPING MATERIAL
   a. WATER: COPPER TYPE "L", 95/5 SOLDER.
   b. WASTE DRAIN AND VENT: ABS.
10. REFER TO SHEET M1.0 FOR TYPICAL BRACING AND ANCHORAGE NOTES.

GENERAL NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME
.
.
.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — PATRICK O. HENRY — No. C12631 Ren. 3-31-23 — STATE OF CALIFORNIA

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

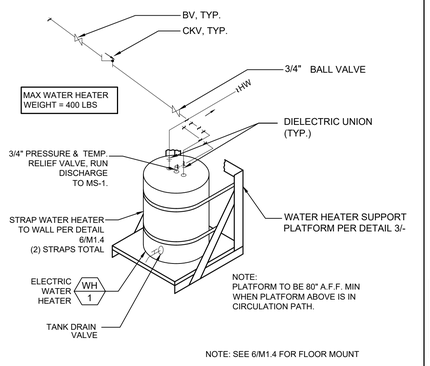
REVISIONS
1
2
3
4

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

SHEET TITLE:
RESTROOM OPTIONS
PLUMBING PLANS
& FIXTURE SCHEDULE

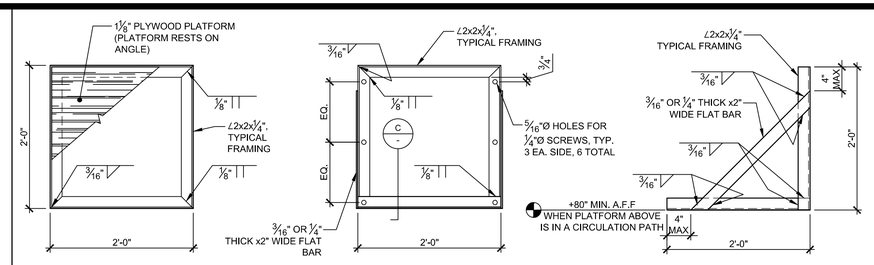
SHEET NUMBER:
P1.0

D:\XXXX-20\4x40\R4DA\Sheets\Sht-Mstr\P1.0 RESTROOM OPTIONS PLUMBING PLANS & FIXTURE SCHEDULE.dwg 12/20/22 12:07:54 PM J:\Projects\PROFORMA\Sheets\2022\2022-12-19 PC SET\P1.0 RESTROOM OPTIONS PLUMBING PLANS & FIXTURE SCHEDULE.dwg



NOTE: SEE 6/M1.4 FOR FLOOR MOUNT

WATER HEATER SUPPORT DETAIL — NOT TO SCALE — 1



ATTACHMENT TO WOOD STUD WALL
ATTACH TO (2) 3x FLAT PER 3/S8.1 INTERNAILED w/ 0.131"Ø x3" NAILS @ 12" O.C. STAGGERED w/ (3) ¼"Ø MIN. x4" LAG SCREWS EACH SIDE (2)½" MIN. PENETRATION INTO WOOD FRAMING).
CENTER ATTACHMENTS ON ONE OF THE TWO DOUBLE STUDS.
MAY BE ATTACHED TO EXTERIOR WALL OR INTERIOR PARTITION WALL.

ATTACHMENT TO STEEL STUD WALL
ATTACH TO 14GA CHANNEL PER 14C/S9.2 w/ (3) #14 SDSTS EACH SIDE.
MAY BE ATTACHED TO EXTERIOR WALL OR INTERIOR PARTITION WALL.
PLATFORM NOT INTENDED TO BE INSTALLED OVER RIGID WALL INSULATION AS DETAILED.

MAX WATER HEATER WEIGHT = 400 LBS

WATER HEATER PLATFORM DETAIL — NOT TO SCALE — 3

HEIGHTS FOR ACCESSIBLE FEATURES IN TOILET FACILITIES

	FIXTURE & MEASUREMENT POINT	PRIMARY USERS: AGES 3-4	AGES 5-8	AGES 9-12	AGES 13 -ADULT	NOTES
A	TOILET, CENTERLINE FROM FACE OF WALL	12" SUGGESTED	12" TO 15" SUGGESTED	15" TO 18" SUGGESTED	17" MIN. TO 18" MAX.	
B	TOILET, TOP OF SEAT HEIGHT	11" TO 12" SUGGESTED	12" TO 15" SUGGESTED	15" TO 17" SUGGESTED	17" MIN. TO 19" MAX.	
C	TOILET, TOP OF FLUSH CONTROLS	36" MAX.	36" MAX.	36" MAX.	44" MAX.	FLUSH CONTROLS SHALL BE LOCATED ON OPEN SIDE OF TOILET.
D	GRAB BAR, TOP OF BAR	18" TO 20" SUGGESTED	20" TO 25" SUGGESTED	25" TO 27" SUGGESTED	33" MIN. TO 36" MAX.	
E	TOILET PAPER DISPENSER, HEIGHT TO OUTLET	14" SUGGESTED	14" TO 17" SUGGESTED	17" TO 19" SUGGESTED	19" MIN.	CENTERLINE OF DISPENSER OUTLET SHALL BE BETWEEN 7" TO 9" IN FRONT OF THE TOILET. OUTLET OF DISPENSER MUST BE BELOW GRAB BAR. DISPENSER (INCLUDING FULL TOILET PAPER ROLL) MUST NOT ENCROACH INTO REQ'D GRAB BAR CLEARANCE.
F	TOILET SEAT COVER, HEIGHT TO TOP OF OUTLET	24" TO 32" SUGGESTED	30" TO 32" SUGGESTED	32" TO 36" SUGGESTED	40" MAX.	
G	URINAL, LIP HEIGHT	12" TO 16" SUGGESTED	13" TO 15" SUGGESTED	15" TO 17" SUGGESTED	17" MAX.	
H	URINAL, HEIGHT OF FLUSH HANDLE	36" MAX.	36" MAX.	36" MAX.	44" MAX.	
I	LAVATORY, HEIGHT TO HIGHEST POINT AT FRONT OF LAV. OR COUNTER	24" TO 28" SUGGESTED	31" MAX.	31" MAX.	34" MAX.	
J	LAVATORY, VERTICAL KNEE CLEARANCE		24" MIN.	24" MIN.	29"-27" OVER THE 8" DEPTH SHOWN	29" MIN TO BOTTOM FRONT EDGE OF LAV; 27" MIN @ 8" DEEP
K	MIRROR (ABOVE LAVATORY OR COUNTERTOP), LOWEST POINT OF REFLECTIVE SURFACE	24" TO 32" SUGGESTED	30" TO 32" SUGGESTED	32" TO 36" SUGGESTED	40" MAX.	MIRROR NOT LOCATED ABOVE LAVATORY OR COUNTERTOP SHALL BE MOUNTED SO THAT LOWEST EDGE OF REFLECTING SURFACE IS 35" MAX. ABOVE FINISH FLOOR.
L	DISPENSERS, DRYERS, HEIGHT TO TOP OF OUTLET, HANDLE OR OPERATING MECHANISM (WHICHEVER IS HIGHEST)	24" TO 32" SUGGESTED	30" TO 32" SUGGESTED	32" TO 36" SUGGESTED	40" MAX	ACCESSORIES SHALL COMPLY WITH 11B-307.2
M	LO DRINKING FOUNTAIN, HEIGHT TO BUBBLER	24" TO 30" * SUGGESTED	30" TO 32" * SUGGESTED	32" TO 36" SUGGESTED	36" MAX.	KNEE CLEARANCE 27" H. AT 8" DEEP IS REQ'D IF HIGHER THAN 30" A.F.F.
N	HI DRINKING FOUNTAIN, HEIGHT TO BUBBLER	same as ADULT	same as ADULT	same as ADULT	38" MIN. TO 43" MAX.	

NOTES:
1. THIS TABLE AND RELATED DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF CALIF. TITLE 24 (2019 C.B.C. SECTION 11B-601) AND IS SHOWN HERE ONLY AS AN AID FOR CONSTRUCTION AND INSTALLATION.
2. ACCESSORIES ARE NOT IN MANUFACTURER'S SCOPE OF WORK.
3. DIMENSIONS GIVEN ARE FROM FACE OF FINISH, UNLESS OTHERWISE NOTED.
4. NOT ALL ITEMS LISTED MAY OCCUR IN THE PROJECT.
5. HEIGHTS CHOSEN FOR CHILDREN'S WATER CLOSETS & ACCESSORIES D & E SHALL BE CONSISTENTLY APPLIED FOR THE AGE GROUP.

M* WHERE A D.F. FOR CHILDREN IS MOUNTED MAXIMUM 30" A.F.F., THE SPOUT SHALL BE MAXIMUM 3-1/2" FROM THE FRONT EDGE OF THE UNIT

ACCESSIBLE HEIGHTS TABLE — 10

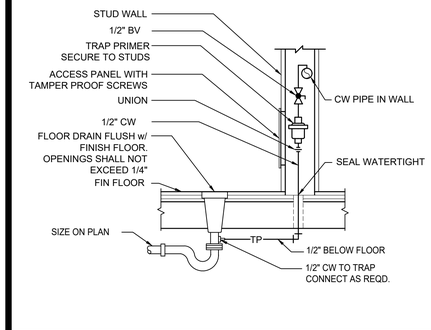
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

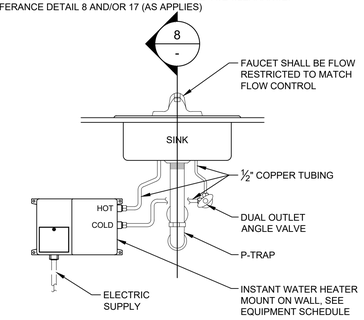
PRE-CHECKED SET NAME
12' x 40' STANDARD MODULAR BUILDING
FORM®

SITE SPECIFIC PROJECT NAME
.
.
.



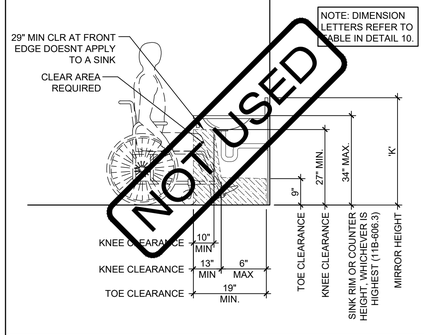
TRAP PRIMER DETAIL — NOT TO SCALE — 6

NOTE:
INSULATE WATER SUPPLY AND DRAIN PIPING AT ACCESSIBLE SINKS OR LAVS WITH "TRUEBRO® LAV GUARD 2" OR "TRUEBRO® SOFT GUARD PLUS" SHIELDS
IWH SHALL NOT BE LOCATED IN THE REQUIRED TOE CLEARANCE.
REFERANCE DETAIL 8 AND/OR 17 (AS APPLIES)

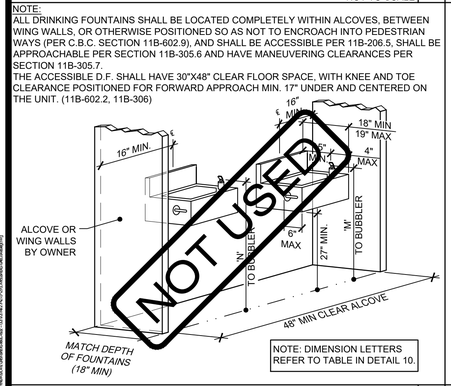


WATER HEATER PLATFORM DETAIL — NOT TO SCALE — 7

NOTES:
1. MODIFY BASE AS SHOWN FOR ADULT WHEELCHAIR ACCESS.
2. CABINET IS FOR ADULT USE ONLY.
3. ALL EXTERIOR SURFACES TO BE PLASTIC LAMINATE.
4. CABINET DOORS ARE NOT ALLOWED @ SINKS.

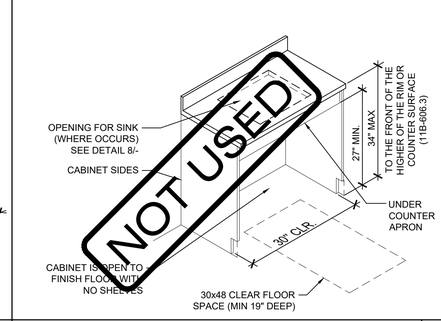


ACCESSIBLE CLASSROOM SINK — NOT TO SCALE — 8

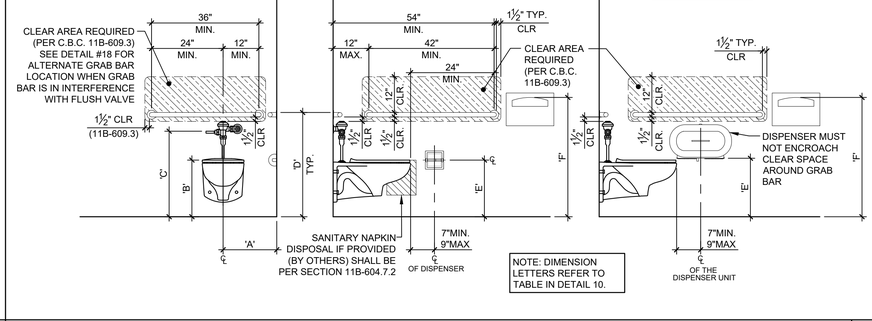


NOTE: DIMENSION LETTERS REFER TO TABLE IN DETAIL 10.

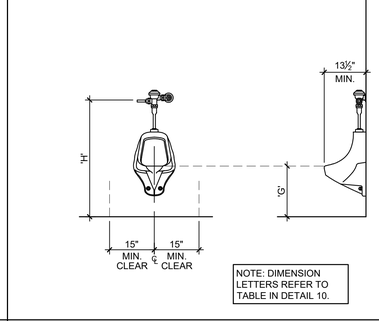
HI-LO DRINKING FOUNTAIN — NOT TO SCALE — 11



ACCESSIBLE CABINET DETAIL — NOT TO SCALE — 12



ACCESSIBLE TOILET AND ACCESSORIES — SCALE: 1/2" = 1'-0" — 14



ACCESSIBLE URINAL — SCALE: 1/2" = 1'-0" — 15

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022
2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

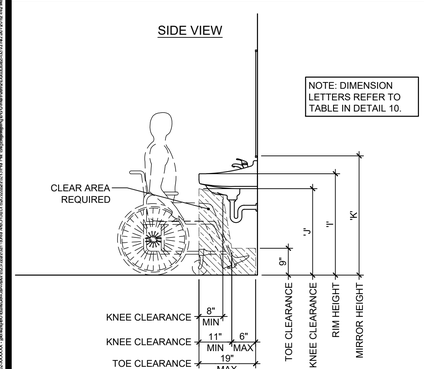
THESE DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STAMPED & SIGNED BY THE ENGINEER OF RECORD.

REVISIONS
1
2
3
4

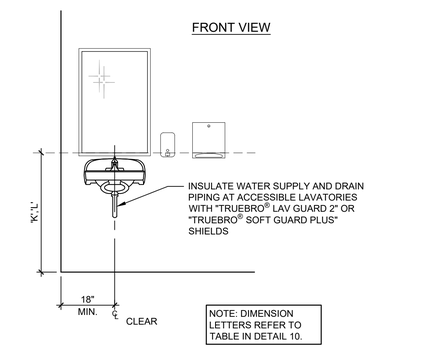
DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

SHEET TITLE:
PLUMBING DETAILS & ACCESSIBLE DETAILS

SHEET NUMBER:
P2.0



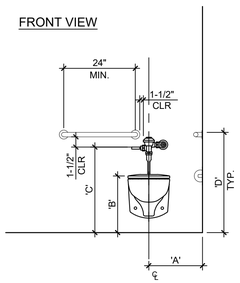
LAVATORY & ACCESSORIES — SCALE: 1/2" = 1'-0" — 17



DETAIL — 18

WHERE AN ADMINISTRATIVE AUTHORITY REQUIRES FLUSH CONTROLS FOR FLUSH VALVES TO BE LOCATED IN A POSITION THAT CONFLICTS WITH THE LOCATION OF THE REAR GRAB BAR, THEN THE REAR GRAB BAR SHALL BE PERMITTED TO BE SPLIT OR SHIFTED TO THE OPEN SIDE OF THE TOILET AREA.

(PER CBC 11B-604.5.2 EXCEPTION 2)

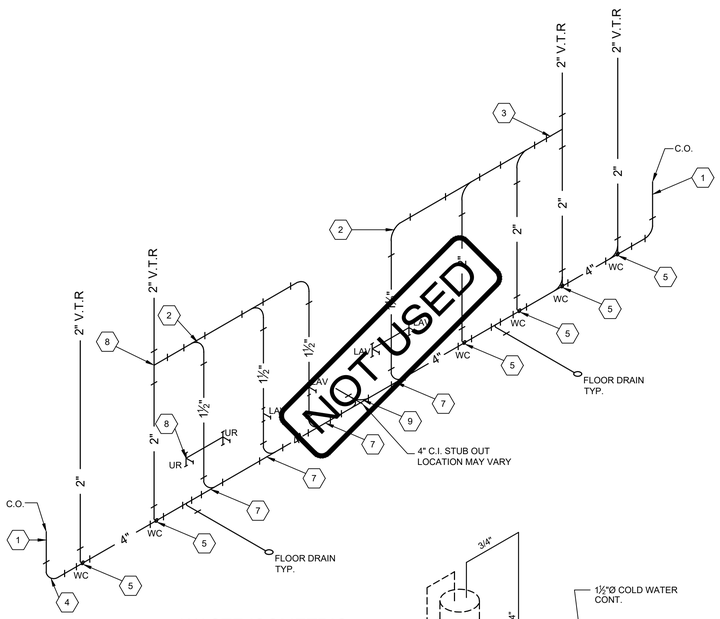


NOT USED — 19

1. DWV PIPING SHALL BE ABS PLASTIC
2. COLD WATER SUPPLY SHALL BE TYPE L COPPER
3. MIN SLOPE 1/4" PER FOOT MAY SLOPE 4" CI AT 1/8" PER FOOT VENTS SHALL TERMINATE NOT LESS THAN 10 FEET FROM OR AT LEAST 3 FT. ABOVE ANY WINDOW, DOOR, AIR INTAKE OR VENT SHAFT, NOR LESS THAN 3FT. IN EVERY DIRECTION FROM ANY LOT LINE; ALLEY AND STREET EXCEPTED; EXTEND 6" ABOVE THE ROOF

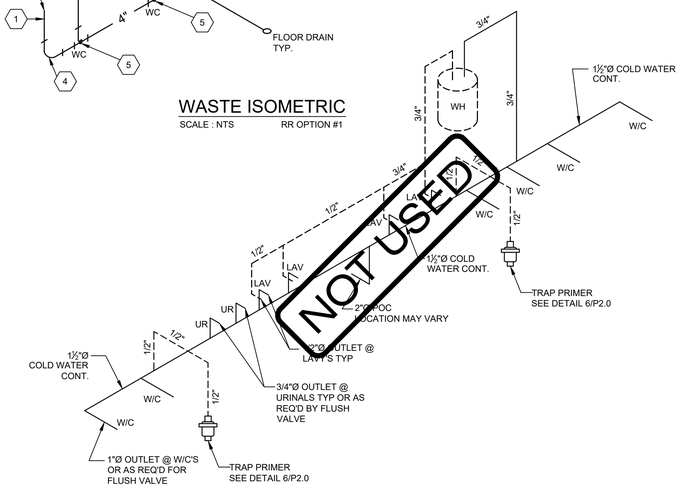
PLUMBING NOTES — 20

G:\XXXX\X_plumb\plans\plumb-det-0[0-9]*[0-9]*.dwg, 8/2/2022 3:04:46 PM, PLOTTED BY: [illegible]



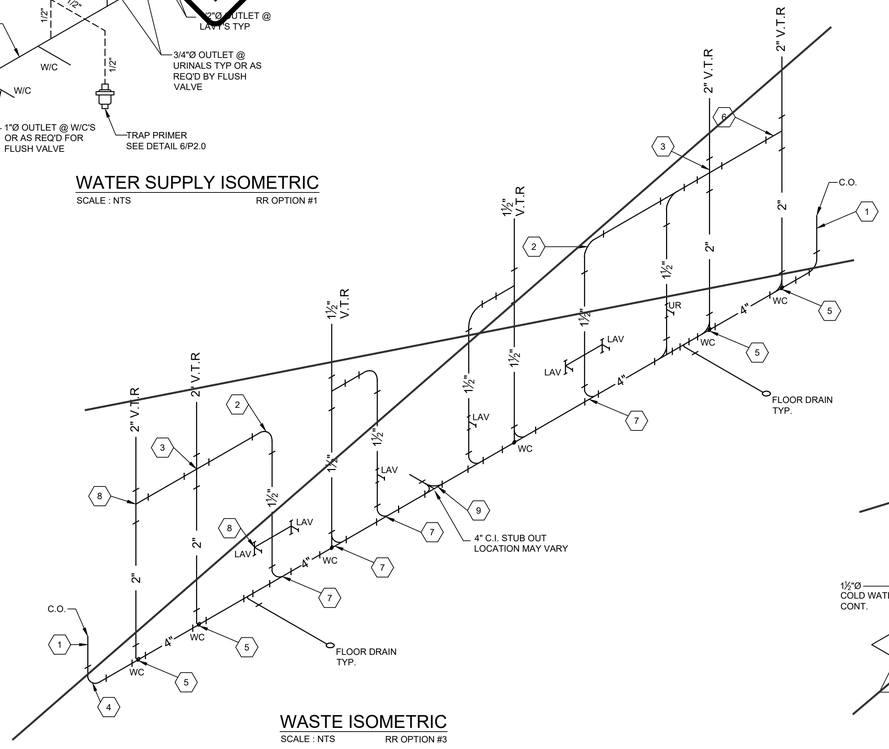
WASTE ISOMETRIC

SCALE : NTS RR OPTION #1



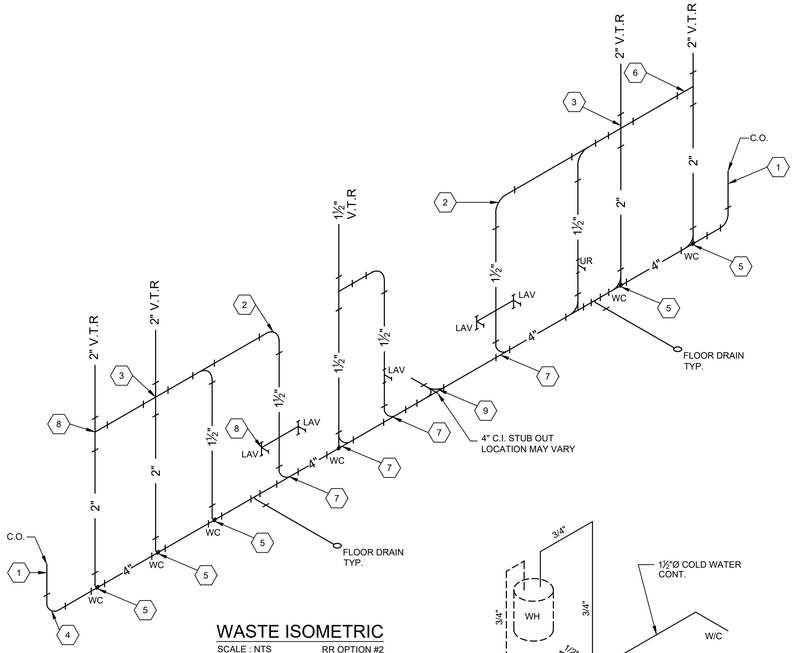
WATER SUPPLY ISOMETRIC

SCALE : NTS RR OPTION #1



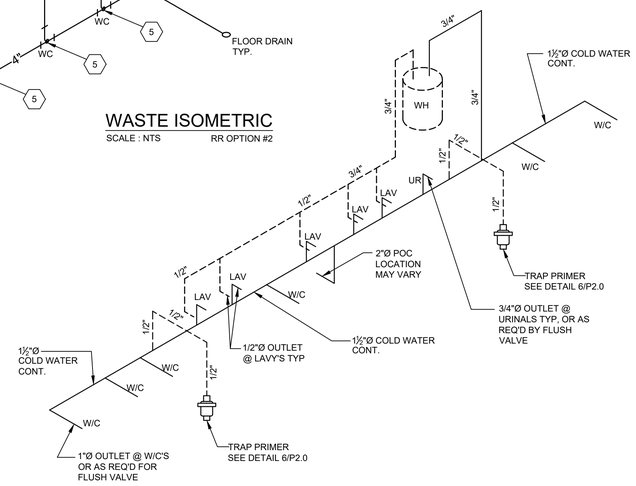
WASTE ISOMETRIC

SCALE : NTS RR OPTION #3



WASTE ISOMETRIC

SCALE : NTS RR OPTION #2

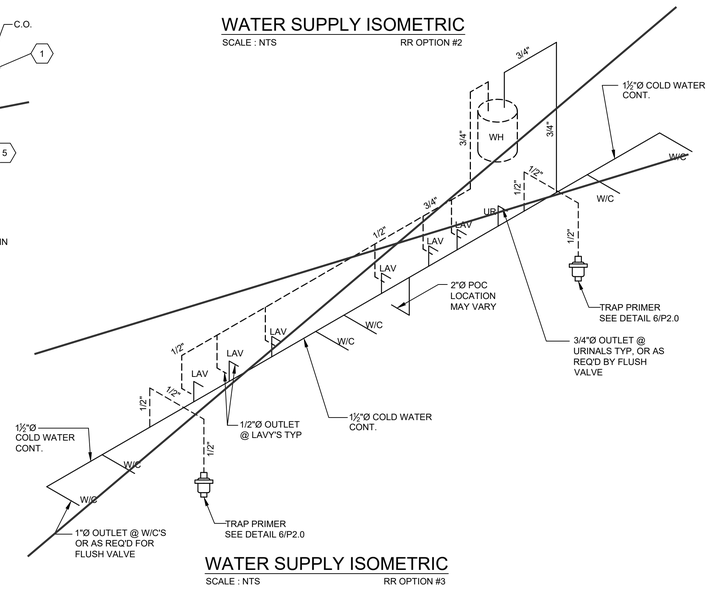


WATER SUPPLY ISOMETRIC

SCALE : NTS RR OPTION #2

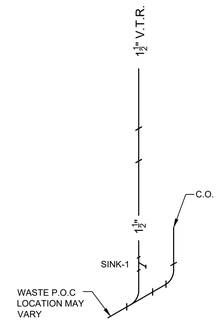
WASTE ISOMETRIC

SCALE : NTS RR OPTION #3



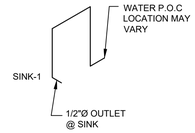
WATER SUPPLY ISOMETRIC

SCALE : NTS RR OPTION #3



WASTE ISOMETRIC

SCALE : NTS CLASSROOM SINK OPTION



WATER SUPPLY ISOMETRIC

SCALE : NTS CLASSROOM SINK OPTION

KEY NOTES

1	4" CLEAN OUT
2	VENT 90
3	VENT CROSS
4	4" QUARTER BEND
5	SMITH #0600 CARRIER
6	2" SANITARY TAP TEE
7	4x4x2 COMBINATION WYE 1/8 BEND
8	2x2x1-1/2 SANITARY TEE
9	4" DOUBLE COMBINATION

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

12' x 40' STANDARD MODULAR BUILDING

FORM®

SITE SPECIFIC PROJECT NAME

.
.
.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120083 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 07/18/2022

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
PATRICK J. KENNEDY
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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

REVISIONS

1	
2	
3	
4	

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	MM/DD/YY
PROJECT NO:	XXXX-20

SHEET TITLE:

PLUMBING
ISOMETRICS DRAWINGS

SHEET NUMBER:

P3.0

D:\XXXXX...\{hash}\{hash}\{hash}

AMS®
American Modular Systems
(20) 36'x40' BUILDINGS

SERIAL NUMBERS:
23-100-021 THROUGH 23-100-040

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)
2GO®

SITE SPECIFIC PROJECT NAME

MMM
(20) BUILDINGS

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2019

- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC) - PART 1, TITLE 24, CCR)
- 2019 CALIFORNIA BUILDING CODE (CBC), VOLUME 1 & 2 - (PART 2, TITLE 24 CCR) BASED ON THE 2018 INTERNATIONAL BUILDING CODE WITH 2019 CALIFORNIA AMENDMENTS
- 2019 CALIFORNIA ELECTRICAL CODE (CEC) - (PART 3, TITLE 24, CCR) BASED ON THE 2017 NATIONAL ELECTRIC CODE WITH 2019 CALIFORNIA AMENDMENTS
- 2019 CALIFORNIA MECHANICAL CODE (CMC) - (PART 4, TITLE 24, CCR) BASED ON THE 2018 IAPMO UNIFORM MECHANICAL CODE WITH 2019 CALIFORNIA AMENDMENTS
- 2019 CALIFORNIA PLUMBING CODE (CPC) - (PART 5, TITLE 24, CCR) BASED ON THE 2018 IAPMO UNIFORM PLUMBING CODE WITH 2019 CALIFORNIA AMENDMENTS
- 2019 CALIFORNIA ENERGY CODE (CEC) - (PART 6, TITLE 24, CCR)
- 2019 CALIFORNIA FIRE CODE (CFC) - (PART 9, TITLE 24, CCR) BASED ON THE 2018 INTERNATIONAL FIRE CODE WITH 2019 CALIFORNIA AMENDMENTS
- 2019 CALIFORNIA GREEN BUILDING CODE (CGC) - (PART 11, TITLE 24, CCR)
- 2019 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)

PARTIAL LIST OF APPLICABLE STANDARDS

• NFPA 13	AUTOMATIC SPRINKLER SYSTEM	2016 EDITION
• NFPA 14	STANDPIPE AND HOSE SYSTEMS	2016 EDITION
• NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
• NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEMS	2017 EDITION
• NFPA 20	STATIONARY PUMPS	2016 EDITION
• NFPA 24	PRIVATE FIRE MAINS	2016 EDITION
• NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED) (NOTE: SEE UL, STANDARD 1971 FOR "VISUAL DEVICES")	2016 EDITION
• NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2015 EDITION
• NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMMENDED)	2015 EDITION

GENERAL NOTES

1. SUBSTITUTION OF PRODUCTS OR PROCESSES WHICH CHANGE THE STRUCTURAL SAFETY, FIRE & LIFE-SAFETY, OR ACCESSIBILTY OF THIS BUILDING SHALL BE SUBMITTED TO THE DSA AS AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT.
2. PC BUILDING APPROVED ONLY FOR OCCUPANCY "E" OR "B", OR "A" CATEGORY I & II, WITH AN OCCUPANT LOAD LESS THAN 250.
3. PC BUILDING EXITING IS BASED ON THE USE OR OCCUPANCY AND WILL BE REVIEWED AS SITE SPECIFIC.
4. PC BUILDINGS LOCATED IN FIRE HAZARD SEVERITY ZONES PER WILDLAND URBAN INTERFACE FIRE AREAS (WUI) SHALL CONFORM TO CBC CHAPTER 7A. PC IS APPROVED FOR WUI.
5. AUTOMATIC FIRE SPRINKLER REQUIREMENTS ARE NOT INCLUDED IN THIS PC APPROVAL.
6. NOT USED
7. NOT USED
8. THIS PC PLAN SHALL NOT BE USED TO HOUSE "ROOMS OR AREAS WITH SPECIAL HAZARDS" SUCH AS LABORATORIES, VOCATIONAL SHOPS AND OTHER SUCH AREAS NOT CLASSIFIED AS GROUP H, LOCATED IN GROUP E OCCUPANCIES.
9. A SEPARATE DSA APPLICATION NUMBER IS REQUIRED FOR DESIGN & INSTALLATION OF SOLAR PANEL SYSTEMS, ITS ANCHORAGE & SUPPORT STRUCTURE. (NOTE: SOLAR PANEL SYSTEM WEIGHT NOT INCLUDED IN BUILDING DESIGN) SOLAR SYSTEM SUBMITTALS SHALL NOT BE SUBMITTED AS AN OVER-THE-COUNTER SUBMITTAL.
10. IF THE STRUCTURE IS LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F, OVER-THE-COUNTER SUBMITTAL IS NOT ALLOWED AND REGULAR PROJECT SUBMITTAL IS REQUIRED. IF THE SITE IS NOT IN A MAPPED LIQUEFACTION HAZARD ZONE, IT MAY BE PRESUMED THAT NO LIQUEFACTION HAZARD EXISTS ON THAT SITE UNLESS A SITE-SPECIFIC GEOTECHNICAL REPORT IDENTIFIES SUCH HAZARD.
11. THIS PC BUILDING IS NOT DESIGNED FOR FLOOD HAZARD AREAS.
12. THE PLACEMENT OF THE PC BUILDING(S) ON OR ADJACENT TO SLOPES SHALL COMPLY WITH THE 'FOUNDATION CLEARANCES FROM SLOPES' SPECIFICATIONS FOUND ON SHEET N2.0 OF THESE DRAWINGS.
13. PC BUILDING SHALL NOT BE PLACED OR BE RELOCATED IN AREAS HAVING A NOISE CONTOUR GREATER THAN OR EQUAL TO 65 CNEL, OR IN AREAS EXPOSED TO A NOISE LEVEL OF 65 dB L_{eq}-1-hr DURING ANY HOUR OF OPERATION WHEN NOISE CONTOURS ARE NOT READILY AVAILABLE, AS SPECIFIED IN CALGREEN CODE, SECTION 5.507.4.1 & 5.507.4.1.1.
14. THIS PC BUILDING IS NOT DESIGNED FOR SNOW LOADS.
15. THIS PC BUILDING IS NOT DESIGNED FOR ICE LOADS.
16. BUILDING SHALL BE MANUFACTURERD IN COMPLIANCE WITH CFC CHAPTER 33 FOR FIRE SAFETY DURING CONSTRUCTION.
17. SUBMITTAL AND APPROVAL OF A GEOHAZARD REPORT BY THE CALIFORNIA GEOLOGICAL SURVEY (CGS) IS NOT REQUIRED FOR SINGLE-STORY MODULAR BUILDINGS PROVIDED THAT THEY DO NOT EXCEED 4,000 SUQARE FEET IN PLAN AREA AND ARE NOT LOCATED WITHIN STATE OR LOCAL GEOLOGICAL HAZARD ZONES IN ACCORDANCE WITH IR A-4, SECTION 3.2.1.
18. THE DESIGN PROFESSIONAL HAS EXEMPTED RAMPS FROM SPECIAL INSPECTION REQUIREMENTS FOR MATERIAL IDENTIFICATION AND STRUCTURAL WELDING. RAMP SHALL NOT BE MODIFIED NOR HAVE SHIMS ADDED CAUSING THE DISTANCE BETWEEN THE HIGHEST RAMP WALKING SURFACE AND THE ADJACENT GRADE TO BE MORE THAN 30 INCHES. IF THIS CONDITION IS NOT MET, STRUCTURAL TESTING AND/OR INSPECTION WILL BE REQUIRED TO VERIFY MATERIALS AND STRUCTURAL WELDING. THIS APPLIES TO SCOPES OF WORK INCLUDING NEW CONSTRUCTION, ALTERATION, OR RELOCATION OF THE RAMP.

© 2020 BY AMERICAN MODULAR SYSTEMS, INC.

ALL OF THE DRAWINGS AND DETAILS CONTAINED IN THIS PACKAGE ARE THE INTELLECTUAL PROPERTY OF AMERICAN MODULAR SYSTEMS, INC (AMS) AND MAY NOT BE USED FOR CONSTRUCTION OR DESIGN BY ANOTHER ENTITY WITHOUT THE EXPRESS WRITTEN PERMISSION OF AMS.

COPYRIGHT: © 2020 BY AMERICAN MODULAR SYSTEMS, INC. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC, MECHANICAL, PHOTOCOPYING, RECORDING, OR OTHERWISE, WITHOUT THE PRIOR WRITTEN PERMISSION OF AMERICAN MODULAR SYSTEMS, INC. CERTAIN ELEMENTS CONTAINED IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMERICAN MODULAR SYSTEMS, INC. SHALL REMAIN THE SOLE PROPERTY OF AMERICAN MODULAR SYSTEMS, INC. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMERICAN MODULAR SYSTEM, INC.'S COPYRIGHT OR OTHER RESERVED INTELLECTUAL PROPERTY RIGHTS AND INTERESTS.

BUILDING DATA

OCCUPANCY	E, B
TYPE OF CONSTRUCTION	V-B
WIND LOAD ASCE 7-16 SECTION 28.5.3 SIMPLIFIED PROCEDURE	V = 99 MPH BASIC WIND SPEED EXPOSURE = C INTERNAL PRESSURE COEFF., $GC_{P,I}$ = ±0.18 RISK CATEGORY II K_{ZT} = 1.00 λ = 1.21 ROOF ANGLE = 1.2°
ICE LOAD	NOT CONSIDERED (SEE GENERAL NOTE #15 THIS SHEET)
SNOW LOAD	NOT CONSIDERED (SEE GENERAL NOTE #14 THIS SHEET)
ROOF LIVE LOAD (MAX PSF)	20
FLOOR LIVE LOAD (PSF)	☐ 50 ☒ 50+15 ☐ 100
RAMP LIVE LOAD (MAX. PSF)	100 (1,000# CONCENTRATED LD)
DESIGN DEAD LOADS (MAX PSF)	13.0 ROOF - 12.0 FLOOR - 10.0 EXT. WALLS
ROOF SOLAR PANELS	NOT CONSIDERED (SEE GENERAL NOTE #9 THIS SHEET)
FIRE SPRINKLER SYSTEM DESIGN WT.	NOT CONSIDERED (SEE GENERAL NOTES #5 THIS SHEET)
ALLOWABLE SOIL PRESSURE (PSF)	1,000 FOR WOOD FOUNDATION
FLOOD HAZARD AREA	NO (SEE GENERAL NOTE #11 THIS SHEET)
RAIN INTENSITY (IN/HR)	3"
BUILDING AREA (SQ. FT.)	960 MIN. THRU 1920 MAX.
CLIMATE ZONE	☒ 1-16
MODULES	LIGHT MODULAR STEEL MOMENT FRAMES PER CBC 2212A
SYSTEM	12'x40' MODULES (2 MODULES MINIMUM - 4 MODULES MAX)
FOUNDATION TYPE	WOOD

SITE-SPECIFIC OPTIONS

FLOOR DECK	1⅛" PLYWOOD SHTG.			
WALL STUDS	WOOD			
EXTERIOR WALL FINISH	☒ DURATEMP 303	☐ LAP SIDING		
HVAC	☐ INTERIOR FLOOR MOUNTED	☒ EXTERIOR WALL MOUNTED	☐ SPLIT SYSTEM	
ROOFING	3" x 20 GA. STANDING SEAM			
ROOF PITCH	☐ SINGLE PITCH	☒ DUAL PITCH		
ROOF DIAPHRAGM	STEEL X-BRACING			
FRONT OVERHANG	☐ NO	☒ YES - LENGTH: 5'-0"		
REAR OVERHANG	☐ NO	☒ YES - LENGTH: 2'-0"		
RAMP(S)	☐ NO	☒ YES (SEE SHEET S10.0)		
LIQUEFIABLE SOILS	☒ NO	☐ YES (SEE GENERAL NOTE #10 THIS SHEET)		
MAPPED GEOHAZARD ZONE	☒ NO	☐ YES (AS DEFINED BY PC-6 SECTION 1.8)		
GEOHAZARD REPORT	☒ NO	☐ YES		
IF YES	GEOTECHNICAL FIRM:			
	REPORT #:		REPORT DATE:	
GEOTECHNICAL REPORT	☒ NO	☐ YES		
IF YES	GEOTECHNICAL FIRM:			
	REPORT #:		REPORT DATE:	

SEE SHEET TS2 FOR SHEET INDEX

SITE SPECIFIC WIND VALUES

SITE SPECIFIC BASIC WIND SPEED = 99 MPH WIND EXPOSURE = C

SITE SPECIFIC SEISMIC VALUES

SITE SPECIFIC S_S = 2.440 SITE SPECIFIC S_1 = 1.213 SITE CLASS = D

SITE SPECIFIC S_{DS} = 1.95 SITE SPECIFIC S_{D1} = 1.37

(NOTE: SITE SHALL BE SITE CLASS "D" IF NO SOILS REPORT UNLESS THERE IS EVIDENCE OF CLASS "E" OR "F" SOILS PRESENT.)

PC BUILDING SEISMIC DESIGN CRITERIA

I_e = 1.0 T = 0.231s R = 3.5 (OMF) RISK CATEGORY II
Ω_0 = 3.0 C_d = 3.0 ρ = 1.0 SEISMIC DESIGN CATEGORY: D ($S_1 < 0.75$) E ($S_1 \geq 0.75$)

NOTE:
PER CBC 1613A.2.3,
S_{DS} (S_{MS}) SHALL NOT BE TAKEN AS LESS THAN S_{D1} (S_{M1})

MAXIMUM STORY DRIFT RATIO = 2.0% (I.E. MAX DRIFT = 0.020 x THE HEIGHT UNDER CONSIDERATION.
LATERAL FORCE RESISTING SYSTEM: LIGHT MODULAR STEEL MOMENT FRAMES PER 2212A
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE
SEISMIC RESPONSE COEFFICIENT IS BASED ON SHORT PERIOD RESPONSE Sds

☒ **NO SOILS REPORT - ASSUMED SITE CLASS "D"**

S_s = 2.440 MAX (SITE) 1.708 (DESIGN)* F_a = 1.2 S_{DS} = 1.95 (SITE) 1.37 (DESIGN)*
S_1 = 1.213 MAX (SITE & DESIGN) F_V = 1.7 S_{D1} = 1.37 MAX (SITE & DESIGN) C_S = 0.393 W (DESIGN)*

NOTE:
FOR ALL LATERAL LOAD CASES, COMPONENTS AND CLADDING DESIGNED FOR:
S_{DS} = 1.95

☐ **WITH SOILS REPORT - SITE CLASS "A", "B" OR "D"**

NOTE: PER EXCEPTION 2 OF ASCE 7-16 SECTION 11.4.8, A GROUND MOTION HAZARD ANALYSIS IS NOT REQUIRED FOR CLASS "D".

S_s = 2.932 MAX (SITE) 2.050 (DESIGN)* F_a = 1.0 S_{DS} = 1.95 MAX (SITE) 1.37 (DESIGN)*
S_1 = 1.213 MAX (SITE & DESIGN) F_V = 1.7 S_{D1} = 1.37 MAX (SITE & DESIGN) C_S = 0.393 W (DESIGN)*

☐ **WITH SOILS REPORT - SITE CLASS "C"**

S_s = 2.440 MAX (SITE) 1.708 (DESIGN)* F_a = 1.2 S_{DS} = 1.95 (SITE) 1.37 (DESIGN)*
S_1 = 1.473 MAX (SITE & DESIGN) F_V = 1.4 S_{D1} = 1.37 MAX (SITE & DESIGN) C_S = 0.393 W (DESIGN)*

☐ **WITH SOILS REPORT - SITE CLASS "E"**

NOTE: PER EXCEPTIONS 1 & 3 OF ASCE 7-16 SECTION 11.4.8, A GROUND MOTION HAZARD ANALYSIS IS NOT REQUIRED.

S_s = 1.718 MAX (SITE) 1.718 (DESIGN) F_a = 1.2 S_{DS} = 1.37 (SITE) 1.37 (DESIGN)
S_1 = 1.031 MAX (SITE & DESIGN) F_V = 2.0 S_{D1} = 1.37 MAX (SITE & DESIGN) C_S = 0.393 W (DESIGN)

*PER ASCE 7-16, SECTION 12.8.1.3:
THE VALUE OF C_S AND E_v ARE PERMITTED TO BE CALCULATED USING A VALUE OF S_{DS} EQUAL TO 1.0, BUT NOT LESS THAN 70% OF S_{DS} AS DEFINED IN SECTION 11.4.5, PROVIDED THAT ALL OF THE FOLLOWING CRITERIA ARE MET:
1. STRUCTURE DOES NOT HAVE IRREGULARITIES;
2. STRUCTURE DOES NOT EXCEED FIVE (5) STORIES ABOVE THE LOWER OF THE BASE OR GRADE PLANE;
3. STRUCTURE HAS A FUNDAMENTAL PERIOD, T, THAT DOES NOT EXCEED 0.5 SECONDS;
4. STRUCTURE MEETS REQUIREMENTS FOR REDUNDANCY FACTOR, ρ, TO BE TAKEN AS 1.0;
5. SITE SOIL PROPERTIES ARE NOT CLASSIFIED AS SITE CLASS 'E' OR 'F';
6. STRUCTURE IS CLASSIFIED AS RISK CATEGORY II.

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
ANDREW PATRICK O'HARA
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

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

REVISIONS

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	06/07/2023
PROJECT NO:	1791-23

SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

TS

American Modular Systems

(20) 36'x40' BUILDINGS

SHEET INDEX

ARCHITECTURAL			
OPTIONS	**SHEET NUMBER**		**SHEET TITLE**
COVER SHEET	☒	TS	TITLE SHEET
	☒	TS-2	SHEET INDEX
INSPECTION FORM	☒	D1	FORM DSA-103
GENERAL NOTES & SPECIFICATIONS	☒	N1.0	GENERAL NOTES & SPECIFICATIONS
	☒	N2.0	GENERAL NOTES & SPECIFICATIONS
	☒	N3.0	TYPICAL SCHEDULES: DOORS, WINDOWS, & FINISHES
	☒	N4.0	ACCESSIBILITY STANDARDS AND DETAILS
	☒	N5.0	MULTIPLE FLOOR PLAN CONFIGURATIONS
ENERGY SHEETS & CALCULATIONS	☒	EN.1	ENERGY CALCULATIONS
	☒	EN.2	ENERGY CALCULATIONS
	☒	EN.3	ENERGY CALCULATIONS
	☒	EN.4	ENERGY CALCULATIONS
	☒	EN.5	ENERGY CALCULATIONS
	☒	EN.6	ENERGY CALCULATIONS
	☒	EN.7	ENERGY CALCULATIONS
	☒	EN.8	ENERGY CALCULATIONS
	☒	EN.9	ENERGY CALCULATIONS
	☒	EN.10	ENERGY CALCULATIONS
FLOOR PLANS	☒	A1.0A	TYPICAL FLOOR PLAN
	☒	A1.0B	TYPICAL FLOOR PLAN
	☒	A1.2	RESTROOM FLOOR PLAN OPTIONS
ROOF PLAN & DETAILS	☒	A2.0	TYPICAL ROOF PLAN - METAL STANDARD SEAM
	☒	A2.2	TYPICAL ROOF DETAILS - METAL STANDING SEAM
INTERIOR ELEVATIONS	☒	A4.0	INTERIOR ELEVATIONS - TYPICAL CLASSROOM
	☐	A4.1	INTERIOR ELEVATIONS - RESTROOM OPTIONS
EXTERIOR ELEVATIONS & ARCHITECTURAL DETAILS – DURATEMP 303 SIDING	☒	A5.0A	TYPICAL EXTERIOR ELEVATIONS - DURATEMP 303 SIDING OPTION
	☒	A5.0B	TYPICAL EXTERIOR ELEVATIONS - DURATEMP 303 SIDING OPTION
	☒	A5.1	TYPICAL ARCHITECTURAL DETAILS - DURATEMP 303 SIDING OPTION
EXTERIOR ELEVATIONS & ARCHITECTURAL DETAILS – LAP SIDING	☐	A5.2	TYPICAL EXTERIOR ELEVATIONS - LAP SIDING
	☐	A5.3	TYPICAL ARCHITECTURAL DETAILS - LAP SIDING OPTION
SECTIONS	☒	A6.0	TYPICAL LONGITUDINAL & TRANSVERSE BUILDING SECTIONS
MISCELLANEOUS DETAILS	☒	A7.1	MISCELLANEOUS ARCHITECTURAL DETAILS
	☐	A8.0	1-HR FIRE RATED CONSTRUCTION DETAILS

STRUCTURAL				
OPTIONS		**SHEET NUMBER**		**SHEET TITLE**
MEMBER PROPERTIES		☒	S0.0	LIGHT GAUGE STEEL MEMBER PROPERTIES
WOOD FOUNDATION PLANS & DETAILS	WOOD	☐	S2.0	WOOD FOUNDATION PLAN - 50 PSF LIVE LOAD
		☒	S2.1	WOOD FOUNDATION PLAN - 50 PSF LIVE LOAD + 15 PSF PARTITION LOAD
		☐	S2.2	WOOD FOUNDATION PLAN - 100 PSF LIVE LOAD
		☒	S2.4	WOOD FOUNDATION DETAILS
FLOOR FRAMING PLAN & DETAILS	PLYWOOD	☒	S3.0	FLOOR FRAMING PLAN & DETAILS FOR PLYWOOD FLOOR
ROOF FRAMING PLAN & DETAILS		☒	S4.0	ROOF FRAMING PLAN & DETAILS
		☒	S4.2	ROOF FRAMING DETAILS
BUILDING FRAMING ELEVATIONS & DETAILS		☒	S5.0	MOMENT FRAME ELEVATIONS & DETAILS
		☒	S5.1	MOMENT FRAME CONNECTION DETAILS
WALL FRAMING	WOOD STUDS	☒	S8.0	WALL FRAMING ELEVATIONS & SCHEDULES - WOOD STUDS
		☒	S8.1	WALL FRAMING DETAILS - WOOD STUDS
RAMP		☒	S10.0	TYPICAL RAMP PLANS & NOTES
		☒	S10.1	RAMP DETAILS

MECHANICAL			
OPTIONS	SHEET NUMBER		SHEET TITLE
FLOOR PLANS	☒	M1.0A	TYPICAL REFLECTED CEILING PLAN
	☒	M1.1B	TYPICAL REFLECTED CEILING PLAN
	☒	M1.1A	TYPICAL MECHANICAL PLAN
	☒	M1.1B	TYPICAL MECHANICAL PLAN
	☐	M1.3	RESTROOM REFLECTED CEILING PLANS OPTIONS
DETAILS	☒	M1.4	MECHANICAL & CEILING DETAILS
	☐	M1.4A	MECHANICAL & CEILING DETAILS
	☒	M1.5	MECHANICAL & CEILING DETAILS
	☐	M1.6	MECHANICAL ROOF DETAILS
MISCELLANEOUS	☒	M1.7	CEILING & MECHANICAL NOTES & SCHEDULES

ELECTRICAL			
OPTIONS	SHEET NUMBER		SHEET TITLE
FLOOR PLANS & DETAILS	☒	E1.0A	TYPICAL ELECTRICAL PLAN
	☒	E1.0B	TYPICAL ELECTRICAL PLAN
	☐	E1.1	RESTROOM OPTIONS ELECTRICAL PLANS
	☒	E1.2	ELECTRICAL NOTES & DETAILS

PLUMBING			
OPTIONS	SHEET NUMBER		SHEET TITLE
FLOOR PLAN & DETAILS	☒	P1.0	RESTROOM OPTIONS, PLUMBING PLAN, & FIXTURE SCHEDULE
	☒	P2.0	PLUMBING DETAILS & ACCESSIBLE DETAILS
	☒	P3.0	PLUMBING ISOMETRIC DRAWINGS

TOTAL PAGES 54

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)
2GO®

SITE SPECIFIC PROJECT NAME

MMM
(20) BUILDINGS

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
ANDREW PATRICK HOWARD
No. C12631
Ren. 8-31-25
STATE OF CALIFORNIA

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

REVISIONS

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	06/01/2023
PROJECT NO:	1791-23

SHEET TITLE:

SHEET INDEX

SHEET NUMBER:

TS2

03-XXXX - [redacted]

AUTHORIZED USE: ALL INFORMATION INCLUDED ON THIS SHEET (FORM DSA-103) IS FOR THE SOLE PURPOSE OF RECEIVING DSA APPROVAL AND ISSUANCE OF A PC NUMBER. NO OTHER USE IS AUTHORIZED WITHOUT THE EXPRESS WRITTEN CONSENT OF AMERICAN MODULAR SYSTEMS, INC.

Additional Information for PC designs only, not to be added to DSA-103:

	STOCKPILE	CONSTRUCTION OF PERMANENT MODULAR OR RELOCATABLE BUILDING	RELOCATION OF CERTIFIED RELOCATABLE BUILDING
INSPECTOR CLASS (minimum requirements)	RBIP or Class 1	In Plant: RBIP or Class 1 Site: Class 4 for Single Story Site: Class 2 for Two-Story	Class 4 for Single Story Class 2 for Two-Story
Selection of the Project Inspector and Testing Agency	by the Owner and approved by DSA, A/E of Record and Structural Engineer	by the School District and approved by DSA, A/E responsible for in-plant construction observation.	by the Owner and approved by DSA, A/E of Record and Structural Engineer
Cost of the Project Inspector (Title 24, Part 1, Section 4-333(b)) and Testing/Special Agency (CAC, Section 4-335(b))	by the Owner	by the School District	

TEST OR INSPECTION (as listed on DSA 103-19, issued 7/16/20)[8]	STOCKPILE	CONSTRUCTION (Diaphragm - Foundation)	RELOCATION OF CERTIFIED BUILDING
	A	B	C
MATERIAL TYPE	WOOD FLOOR ONLY	WOOD FLOOR ONLY - WOOD FOUNDATION	WOOD FOUNDATION
SOILS			
1. GENERAL:			
a. Verify that: • Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. • Foundation excavations extended to proper depth and have reached proper material. • Materials below footings are adequate to achieve the design bearing capacity.		X	X
MASONRY			
14. VENEER OR GLASS BLOCK[5]:			
a. Verify proportions of site-prepared mortar and grout and/or verify certification of premixed mortar.	X	X	
b. Inspect placement of units and construction of mortar joints.	X	X	
c. Inspect placement of reinforcement, connectors, and anchors.			
d. Inspect type, size, and location of anchors and all other items to be embedded in masonry including details of anchorage of masonry to structural members, frames, and other construction.			
e. Verify preparation, construction, and protection of masonry during cold weather (temperature below 40° F) or hot weather (above 90°).	X	X	
f. Test veneer bond strength.	X	X	
CONCRETE			
11. POST-INSTALLED ANCHORS[4]:			
a. Inspect installation of post-installed anchors		X	X
b. Test post-installed anchors		X	X
STEEL, ALUMINUM			
17. STRUCTURAL STEEL, COLD-FORMED STEEL, AND ALUMINUM USED FOR STRUCTURAL PURPOSES:			
a. Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements, • Material sizes, types and grades comply with requirements.	X	X	
b. Test unidentified materials	X	X	
c. Examine seam welds of HSS shapes	X	X	
d. Verify and document steel fabrication per DSA approved construction documents.	X	X	
19. WELDING:			
a. Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS.	X	X	
b. Verify weld filler material manufacturer's certificate of compliance.	X	X	
c. Verify WPS, welder qualifications and equipment.	X	X	
19.1 SHOP WELDING:			
a. Inspect groove, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds	X	X	
b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds	X	X	
c. Inspect welding of stairs and railing systems (only required where noted on S10.0 & S10.1)	X	X	
d. Verification of reinforcing steel weldability other than ASTM A706.			
e. Inspect welding of reinforcing steel.			
19.2 FIELD WELDING:			
a. Inspect groove, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds (See foundation anchorage - S1.6 sheets)			
b. Inspect single-pass fillet welds ≤ 5/16" (See foundation anchorage - S1.6 sheets)			
c. Inspect end-welded studs (ASTM A-108) installation (including bend test)			
d. Inspect floor and roof deck welds			
e. Inspect welding of structural cold-formed steel			
f. Inspect welding of stairs and railing systems			
g. Verification of reinforcing steel weldability			
h. Inspect welding of reinforcing steel.			
20. NONDESTRUCTIVE TESTING[7]:			
a. Ultrasonic (Test per sheet S5.1)	X	X	
b. Magnetic Particle (Test per sheet S5.1)	X	X	
22. SPRAY APPLIED FIRE-PROOFING:			
a. Examine structural steel surface conditions, inspect application, take samples, measure thickness, and verify compliance of all aspects of application with DSA approved documents.		X	
b. Test bond strength.			
c. Test density.			
23. ANCHOR BOLTS, ANCHOR RODS, & OTHER STEEL:			
a. Anchor Bolts and Anchor Rods			
b. Threaded rod not used for foundation anchorage.			
OTHER			
26. OTHER			
a. Column fire rating where specified per 20/A8.0 and tested per 1705A.15	X	X	

FOOTNOTES

1. NOT USED.
2. NOT USED.
3. NOT USED.
4. REQUIRED ONLY WHERE DETAILS SPECIFY THE USE OF THESE ATTACHMENTS.
5. INSPECTION OF VENEER DETAILED ON SHT. A7.0 MAY BE WAIVED BY DSA ON A SITE SPECIFIC BASIS.
6. THE APPENDIX TO DSA-103 SHALL BE COMPLETED BY THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE.
7. ULTRASONIC TESTING PER DSA IR-PC2 SECTION 10.1 SHALL BE PERFORMED ON 100% OF CJP GROOVE WELDS WHEN THE COLUMNS PER SCHEDULE ON SHEET S5.1 HAVE A THICKNESS OF 3/4" OR GREATER. MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25% OF ALL BEAM-TO-COLUMN CJP GROOVE WELDS. NONDESTRUCTIVE TESTING OF COMPLETE JOINT PENETRATION WELDS AT GRAVITY CONNECTIONS SHALL COMPLY WITH AISC 360, CHAPTER N, PER 2019 CBC 1705A.2.1.
8. EXAMPLE DSA-103 FORMS WILL BE USED AS GUIDE TO DEVELOP A SITE-SPECIFIC DSA-103 FORM FOR THE SITE-SPECIFIC PROJECT. EXAMPLE FORMS ON THE PC DRAWINGS WILL BE CROSSED OUT WHEN SITE-SPECIFIC DSA-103 FORMS ARE PROVIDED DURING OTC REVIEW.
9. QUALIFIED REPRESENTATIVE OF LABORATORY OF RECORD OR APPROVED SPECIAL INSPECTOR SHALL VERIFY ALL STEEL IDENTIFICATION PER 2019 CBC 2202A.1 AND DSA IR 17-3 STRUCTURAL WELDING INSPECTION.
10. THE DESIGN PROFESSIONAL HAS EXEMPTED RAMPS FROM SPECIAL INSPECTION REQUIREMENTS FOR MATERIAL IDENTIFICATION AND STRUCTURAL WELDING. RAMP SHALL NOT BE MODIFIED NOR HAVE SHIMS ADDED CAUSING THE DISTANCE BETWEEN THE HIGHEST RAMP WALKING SURFACE AND THE ADJACENT GRADE TO BE MORE THAN 30 INCHES. IF THIS CONDITION IS NOT MET, STRUCTURAL TESTING AND/OR INSPECTION WILL BE REQUIRED TO VERIFY MATERIALS AND STRUCTURAL WELDING. THIS APPLIES TO SCOPES OF WORK INCLUDING NEW CONSTRUCTION, ALTERATION, OR RELOCATION OF THE RAMP.

D:\XXXX\...\[id=4cdb7858f0d0c8c0c-0d0-0b1-0b0-0b0b0b0]\Revit Files\[0]TEST B&S 03/2021\DSA-103 TBL.rvt

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
ANDREW PATRICK O'HAGAN
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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

REVISIONS

DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

SHEET TITLE:

FORM
DSA-103

SHEET NUMBER:

D1

SECTION 1 GENERAL REQUIREMENTS

1. GENERAL
   - A. THE REQUIREMENTS OF THE GENERAL CONDITIONS OF THE AGREEMENT AND THIS GENERAL REQUIREMENT APPLY TO THE SEVERAL TRADE SECTIONS WITH THE SAME FORCE AS THOUGH FULLY REPEATED IN EACH TRADE SECTION.
   - B. NAME BRANDS ARE INDICATED TO ESTABLISH A STANDARD OF QUALITY, ITEMS OF EQUAL OR BETTER QUALITY MAY BE SUBSTITUTED FOR THE LISTED BRAND NAMED PRODUCTS WITH THE WRITTEN APPROVAL OF D.S.A. AND THE RDPRC.
   - C. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF TITLES 19 AND 24 CALIFORNIA CODE OF REGULATIONS, 2019 C.B.C. NO CHANGES SHALL BE MADE FROM D.S.A. APPROVED DRAWINGS OR SPECIFICATIONS WITHOUT PRIOR WRITTEN APPROVAL OF D.S.A. AND THE RDPRC.
2. SCOPE OF WORK
   - A. THE WORK CONSISTS OF MANUFACTURING OFF-SITE IN A PLANT AND INSTALLING ON-SITE, MODULAR RELOCATABLE BUILDINGS AS DEFINED HEREIN AND SHOWN AND DETAILED ON DRAWINGS.
   - B. ALL REQUIREMENTS OF TITLE 24 OF THE STATE OF CALIFORNIA, CODE OF REGULATIONS, RELATING TO INSPECTIONS AND VERIFIED REPORTS SHALL BE COMPLIED WITH AND SHALL INCLUDE:
     1. GENERAL RESPONSIBLE CHARGE OF FIELD ADMINISTRATION TO BE PROVIDED BY THE RDPRC.
     2. INSPECTION IN-PLANT DURING THE COURSE OF CONSTRUCTION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT. THE INSPECTOR SHALL BE RESPONSIBLE FOR AND APPROVED TO INSPECT THE GENERAL CONSTRUCTION WELDING, MECHANICAL, AND ELECTRICAL WORK. COST OF THESE INSPECTIONS SHALL BE BORNE BY THE SCHOOL DISTRICTS.
     3. ON-SITE INSPECTION OF THE BUILDING INSTALLATION ELECTRICAL AND UTILITY INSTALLATION OR CONNECTIONS BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT AND RETAINED BY THE SCHOOL DISTRICT.
     4. OTHER SPECIAL TESTS OR INSPECTIONS AS MAY BE REQUIRED BY THE DIVISION OF THE STATE ARCHITECT.
     5. ADDENDUMS SHALL BE SIGNED BY THE RDPRC & APPROVED BY D.S.A.
     6. CHANGES TO CONSTRUCTION DOCUMENT AFFECTING ACS, FLS & SSS SHALL BE SIGNED BY THE OWNER & THE RDPRC & APPROVED BY D.S.A. PRIOR TO COMMENCING WORK. CHANGES TO THE CONSTRUCTION COST ARE REPORTED TO D.S.A. USING FORM DSA-168 AT THE CONCLUSION OF THE PROJECT.
     7. THE TESTING LAB SHALL BE IN THE EMPLOY OF THE OWNER.
     8. ALL CONTRACTORS SHALL VERIFY ALL WORK CONDITIONS, DIMENSIONS AND DETAILS AND REPORT ANY OR ALL OMISSIONS AND DISCREPANCIES TO THE RDPRC/OWNER IMMEDIATELY BEFORE COMMENCING WORK.
     9. EACH CONTRACTOR TO BE RESPONSIBLE TO SEE THAT THEIR WORK CONFORMS TO ALL GOVERNMENTAL CODES WHETHER OR NOT SO STATED ON THE DRAWINGS.
     10. ALL MATERIALS AND WORKMANSHIP TO CONFORM TO THE LATEST REQUIREMENTS OF THE GOVERNING BUILDING CODES IN EFFECT AT TIME OF DSA APPLICATION.
     11. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED AND ERECTED PER MANUFACTURER'S DIRECTIONS AND INSTRUCTIONS.
     12. SHOP DRAWINGS MAY BE REQUIRED. IF SO, THEY WILL BE ACCURATELY DRAWN TO A LARGE ENOUGH SCALE TO SHOW ALL PERTINENT FEATURES OF THE ITEM AND ITS CONNECTION TO RELATED WORK.
     13. THE MANUFACTURER OF BUILDING IS TO PLACE TWO PERMANENT METAL IDENTIFICATION LABEL ON EACH MODULE, MECHANICALLY FASTENED TO THE FRAME SEE "GENERAL DESIGN REQUIREMENTS", SHEET N2.0. FOR PROJECTS MANUFACTURED OFF-SITE, THE PLANT INSPECTOR IS TO INDICATE THE MANUFACTURER'S NAME AND SERIAL NUMBER OF EACH MODULE ON THE VERIFIED REPORT AND D.S.A. APP. NUMBER. SEE "GENERAL DESIGN REQUIREMENTS", SHEET N2.0 FOR ADDITIONAL REQUIREMENTS.
     14. ALL TESTS AND INSPECTIONS REQUIRED BY DSA SHALL BE COMPLIED WITH. ALL TESTS REQUIRED BY FIRE AND LIFE SAFETY REGULATIONS SHALL BE BY A NATIONALLY RECOGNIZED TESTING LABORATORY.

SECTION 2 FOUNDATION

1. ALLOWABLE SOIL BEARING:
   - 1000 P.S.F. FOR WOOD FOUNDATIONS MAX
2. WOOD FOUNDATIONS SHALL BE CONSTRUCTED PER ALL NOTES, SPECIFICATIONS & DETAILS NOTED ON SHEETS S2.0 - S2.4 OF THIS DRAWING PACKAGE.

NOTE: THE FOUNDATION SYSTEM PRESENTED HEREIN COMPLIES WITH INTERPRETATION OF REGULATIONS, IR 16-1, ISSUED BY DIVISION OF THE STATE ARCHITECT, FOR TEMPORARY BUILDINGS.

3. WORK NOT INCLUDED:
   - A. ALL ON-SITE OR OFF-SITE UTILITIES AND THE CONNECTION OF THEM TO THE BUILDING UNLESS INDICATED ON THE DRAWINGS.
   - B. ALL LEVELING, GRADING OR OTHER SITE PREPARATION EXCEPT WOOD LEVELING STRIPS WHERE REQUIRED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
   - C. FIRE ALARM SYSTEM, PROGRAM BELL, PUBLIC ADDRESS SYSTEM, INTERCOM SYSTEM, TV, TELEPHONE SYSTEM, UNLESS OTHERWISE INDICATED ON THE DRAWINGS, OR MODIFIED BY CHANGE ORDER.
4. WHEELS AND HITCH SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
5. ACCESSIBILITY OF SITE: THE SCHOOL DISTRICT SHALL PROVIDE ACCESS TO THE SITE FOR THE INSTALLATION OF BUILDINGS. REMOVAL OF TREES, SHRUBS, FENCING, SPRINKLERS ETC. NECESSARY FOR THE MOVE-IN OF BUILDINGS SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.

SECTION 5 STEEL

1. GENERAL - ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC 360-16, TITLE 24 OF CALIFORNIA CODE OF REGULATIONS SECTION 2212A.1.2, AND THE AMERICAN IRON AND STEEL INSTITUTE SPECIFICATIONS FOR DESIGN OF STEEL STRUCTURAL MEMBERS. A COPY OF TITLE 24 SHALL BE KEPT AT THE JOBSITE AT ALL TIMES.
   - A. FABRICATION AND ERECTION SHALL COMPLY WITH AISC 360-16 CHAPTER 'M' AND AISC 341-16 CHAPTER 'I'.
2. WELDING - ALL WELDING DONE BY SHIELDED ELECTRIC-ARC OR FLUX CORED-ARC PROCESS COMPLYING WITH REQUIREMENTS OF THE "STRUCTURAL WELDING CODE" OF THE AMERICAN WELDING SOCIETY. WELDING DONE BY OPERATORS QUALIFIED BY TESTS ACCEPTABLE TO THE DIVISION OF THE STATE ARCHITECT, WELDING INSPECTION PER TITLE 24, PART 2, CCR, SECTIONS 1705A.2.5 WELDING ELECTRODE SHALL BE E70XX. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20FT-LBS AT ZERO DEGREES F AND COMPLYING WITH AWS D1.8-09. SECTION 6.3.
3. STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE FOLLOWING:
   - A. WIDE FLANGE BEAMS SHALL CONFORM TO ASTM A992, GRADE 50, TYP. U.N.O.
   - B. STRUCTURAL STEEL CHANNELS SHALL CONFORM TO ASTM A36 (36 KSI) TYP, U.N.O. NOTE: ASTM A572 (50 KSI) MAY BE SUBSTITUTED FOR A36 (36 KSI), WHERE DRAWINGS SPECIFY 36 KSI MIN., CHANNELS MAY CONFORM TO EITHER ASTM A36 (36KSI) OR ASTM A572 (50 KSI).
   - C. PIPE COLUMNS SHALL CONFORM TO ASTM A-53 WITH SULFUR CONTENT NOT EXCEEDING 0.05% TYP, U.N.O.
   - D. STRUCTURAL STEEL TUBING (HSS) SHALL CONFORM TO ASTM A500 GRADE B OR C OR ASTM A1085, TYP, U.N.O.
   - E. STEEL PLATES, ANGLES, BARS AND MISC. SHAPES SHALL CONFORM TO ASTM A36 (36 KSI) TYP. U.N.O. NOTE: ASTM A572 (50 KSI) MAY BE SUBSTITUTED FOR A36 (36 KSI).
   - F. STRUCTURAL WELDS ARE DESIGNED FOR FULL ALLOWABLE STRESS UNLESS OTHERWISE NOTED.
4. ERECTION - STRUCTURAL STEEL ERECTED TRUE, STRAIGHT, PLUMB AND TO ITS DESIGNATED LOCATIONS. FIELD CONNECTIONS BOLTED OR WELDED AS INDICATED ON THE DRAWINGS.
5. NAILS, BOLTS, SCREWS AND NUTS, ETC. - FOR EXTERIOR WORK SHALL BE CADMIUM PLATED OR GALVANIZED.
   - A. BOLTS FOR STRUCTURAL STEEL CONNECTIONS SHALL CONFORM TO ASTM A-307 UNLESS OTHERWISE NOTED. ALL HOLES FOR BOLTS THRU STEEL TO BE DRILLED, OR TORCHED PILOT HOLE AND REAMED TO DIAMETER IF BOLT +1/16" UNLESS OTHERWISE NOTED, NELSON STUDS (WELDED TO STEEL) MAY BE SUBSTITUTED FOR BOLTS SAME LENGTH AND DIAMETER.
   - B. SEE "FASTENERS FOR ATTACHMENT TO STEEL" ON SHEET N2.0 FOR SHOT PINS & SCREWS.
6. HANDRAILS - FABRICATED, AS DETAILED, NON-FILLET WELDS GROUND SMOOTH.
7. SHOP PAINT
   - A. EXPOSED STEEL COATED WITH ONE SHOP COAT OF RED OXIDE PRIMER.
   - B. ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO APPLICATION OF SHOP COATS.
8. TESTS
   - A. PROVIDE MILL CERTIFICATES OR TEST ALL STEEL MEMBERS PER TITLE-24 PART 2, CCR SECTION 1705A.2 & 2202A.

SECTION 6 CARPENTRY

1. SCOPE OF WORK

   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL CARPENTRY.
2. MATERIALS

   LUMBER GRADE MARKED IN ACCORDANCE WITH AN APPROVED GRADING AGENCY PER DOC PS 20-05 INCLUDING "STANDARD GRADING AND DRESSING RULES NO. 17" OF WEST COAST LUMBER INSPECTION BUREAU, OR "WESTERN LUMBER GRADING RULES", LATEST EDITION OF WESTERN WOOD PRODUCTS ASSOCIATION. OSB OR PLYWOOD GRADE MARKED IN ACCORDANCE WITH PRODUCT STANDARD PS 1-09 FOR SOFTWOOD OSB OR PLYWOOD, OF AMERICAN PLYWOOD ASSOCIATION. EACH SHEET SHALL BEAR THE STAMP OF APA, PITTSBURGH TESTING, OR TECO. MOISTURE CONTENT SHALL NOT EXCEED 19%.
   - A. JOISTS, HEADERS, PLATES STUDS: DOUGLAS FIR S4S #2 OR HEM FIR S4S #2 MIN. U.N.O. NOTE: MSR 1650 E1.5 MAY BE SUBSTITUTED FOR #2 GRADE IF IT MEETS THE STRUCTURAL REQUIREMENTS FOR FLOOR AND ROOF MEMBERS.
   - B. PSL HEADERS: TRUS JOIST PARALLAM PSL BY WEYERHAEUSER (ICC ESR-1387) OR EQUIV, MEETING THE FOLLOWING STRUCTURAL PROPERTIES:

BEAMS ≤ 7" DEEP & COLUMNS	BEAMS ≥ 9¼" DEEP
F_b = 2400 PSI MIN.	F_b = 2900 PSI MIN.
F_v = 190 PSI MIN.	F_v = 290 PSI MIN.
E = 1,8E6 PSI MIN.	E = 2.0E6 PSI MIN.

   - C. POSTS AND TIMBERS: DOUGLAS FIR S4S #1 OR HEM FIR S4S #1 MIN.
   - D. BLOCKING: DOUG FIR #3, OR HEM FIR #3, OR STD. & BET.
   - E. SILLS AND LUMBER & SHIM PLATES IN CONTACT WITH CONCRETE, MASONRY OR EARTH: DOUG FIR #2 OR HEM FIR #2 MIN. PRESSURE TREATED IN ACCORDANCE WITH CBC 2304.12.1. EACH PIECE SHALL BEAR AWPA STAMP. AWPA STANDARD U1 & T1 GROUND CONTACT, D.F. (OR H.F.) #2 ABOVE GROUND.
   - F. MOISTURE BARRIER: KRAFT WATERPROOF BUILDING PAPER, OR 15 LB. FELT, CBC SECTION 1403.2 & ASTM D226, TYPE I.
   - G. STUDS - S4S DOUG FIR #2 OR #2 HEM FIR. MAXIMUM MOISTURE CONTENT OF 19% AT TIME OF INSTALLATION.
   - H. FASTENERS - FASTENERS SHALL BE CORROSION RESISTANT PER C.B.C. 2304.10.1.1 COMMON NAILS PER ASTM F1667 FOR EXTERIOR SIDING & FOUNDATION ONLY.
   - I. BUILDING TRIM - 2x RESAWN SELECT D.F., H.F., OR CEDAR.
   - J. DOOR/WINDOW TRIM - 1x4 RESAWN D.F., H.F., OR CEDAR.
   - K. FRAMING CONNECTORS SHALL BE FROM SIMPSON CATALOG LATEST ED.
   - L. FIRE BLOCKS SHALL CONFORM TO CBC SECTION 718.2
   - M. ALL NAILS SHALL BE COMMON NAILS PER ASTM F1667 UNLESS OTHERWISE NOTED.
   - N. ALL CUT ENDS & HOLES IN PRESSURE TREATED LUMBER SHALL BE TREATED WITH "CUPRINOL".
   - O. ALL BOLTS & LAG SCREWS SHALL COMPLY WITH THE 2015 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (ANSI/AWC NDS-2015).

CARPENTRY continued

   - P. HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT + 1/16".
   - Q. HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER AND DEPTH AS THE SHANK, THE REMAINDER OF THE HOLE SHALL BE 40% TO 70% OF THE SHANK DIAMETER.
   - R. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS AND NUTS WHICH BEAR ON WOOD.
3. WORKMANSHIP
   - A. FRAMING - SECURELY NAILED, BRIDGED AND BLOCKED TO FORM RIGID STRUCTURE. WORK CUT, FITTED AND ASSEMBLED LEVEL PLUMB AND TRUE TO LINE. TRIM IN AS LONG LENGTHS AS POSSIBLE WITH ALL STANDING TRIM IN ONE PIECE. TRIM SEALED AT ALL EDGES.
   - B. NAILING - IN ACCORDANCE WITH TITLE 24, CALIFORNIA BUILDING CODE, TABLE 2304.10.1.
   - C. EXTERIOR WALLS - FACTORY FABRICATED, CAULKING PROVIDED BETWEEN PERIMETER OF WALL AND STRUCTURAL MEMBERS PROVIDING WEATHER-PROOF AND WATER-TIGHT SEAL, NECESSARY CLOSERS, SEALS, AND FLASHINGS PLACED AT TOP AND BASE SUPPORT OF PANELS AND AROUND OPENINGS.
   - D. NAILS INTO P.T. LUMBER TO BE HOT DIPPED GALVANIZED.
   - E. MACHINE APPLIED NAILING: USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE RDPRC AND THE DIVISION OF THE STATE ARCHITECT, THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" OSB, IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.
   - F. MOISTURE BARRIER - APPLIED TO STUDS WEATHER-BOARD FASHION, HORIZONTAL JOINTS LAPPED MIN 6" INCLUDING BUILDING CORNERS. SHEATHING APPLIED OVER MOISTURE BARRIER.
   - G. TRIM SEALED AT ALL EDGES, SEALANT PAINTED TO MATCH TRIM OR SIDING UNLESS TRANSPARENT TYPE.

SECTION 7A SHEET METAL (NON-STRUCTURAL)

1. SCOPE OF WORK

   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL INDICATED SHEET METAL.
2. MATERIALS
   - A. SHEET METAL - STEEL SHEETS HOT DIP GALVANIZED WITH 1.25 OZ. PER SQUARE FOOT ZINC COATING CONFORMING TO ASTM A653 MINIMUM 26 GA. UNLESS OTHERWISE NOTED ON THE DRAWINGS.
   - B. SOLDER - OF STAND, GRADE "A" OF EQUAL PARTS, ARD BRAND, LEAD AND TIN ASTM B32.
   - C. FLUX - ZINC SATURATED MURIATIC ACID.
   - D. GUTTERS: 26 GA, G-90 GALV. STEEL
     DOWNSPOUTS: 2"x3" CONVOLUTED 30 GA. G-90 GALV. STEEL
     GUTTER ENDCAPS: 26 GA. G-90 GALV. STEEL
     GUTTER CLIPS: 18 GA. G-90 GALV. STEEL
     FLASHING: 22 GA. G-90 GALV. STEEL
   - E. FASTENERS:
     SELF-DRILLING OR SELF-TAPPING SHEET METAL SCREWS.
     LENGTH TO HAVE (3) EXPOSED THREADS MIN.
3. WORKMANSHIP

   SHEET METAL ACCURATELY FORMED TO DIMENSIONS AND SHAPES DETAILED WITH TRUE STRAIGHT LINES, CORNERS AND ANGLES. FLASHING INSTALLED IN LONGEST LENGTHS POSSIBLE. EXTERIOR WORK FORMED, FABRICATED AND INSTALLED SO THAT IT ADEQUATELY PROVIDES FOR EXPANSION AND CONTRACTION IN THE COMPLETED WORK AND FINISHES WATER AND WEATHER TIGHT. ALUMINUM SHALL BE SEPARATED FROM FERROUS METAL BY POLYETHYLENE TAPE OR FLOOD COAT OF ASPHALTIC PAINT.

SECTION 7B METAL ROOFING

1. SCOPE OF WORK

   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL METAL ROOFING.
2. MATERIALS
   - A. ROOF: 3 INCH STANDING SEAM, MINIMUM 20-GAUGE G-90 GALV. INTERLOCKING (UN-PENETRATED) SHEET STEEL PANELS (G90).
   - B. CLASS B FIRE RATING.
   - C. FASTENERS SHALL BE HOT-DIPPED GALVANIZED.

SECTION 7C SEALANT

1. SCOPE OF WORK

   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL AND SERVICES TO SEAL BUILDINGS.
2. MATERIALS

   VULKEM SEALANT, POLYURETHANE, MANUFACTURED BY MAMECO INTERNATIONAL FOR ROOFS. "GEOCEL" SILICONIZED CAULK, GE, DUPONT, EAGLESEAL OR DAP FOR ALL OTHER APPLICATIONS, OR EQUAL.

   A. SEALANT V.O.C. LIMITS PER SCAQMD RULE 1168 (AS SHOWN IN TITLE 24, PART 11, TABLE 5.504.4.1 AND TABLE 5.504.4.2)
3. WORKMANSHIP

   SEALANT APPLIED TO DRY CLEAN SURFACES, WHEREVER INDICATED ON DETAILS AND AS NEEDED TO MAKE BUILDING WATERTIGHT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

SECTION 8 HOLLOW METAL DOORS AND FRAMES

1. SCOPE OF WORK

   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL HOLLOW METAL DOORS AND FRAMES.
2. MATERIALS
   - A. DOORS - INSULATED TYPE L FULL FLUSH, MANUFACTURED BY AMWELD MANUFACTURING COMPANY, 18 GA. 1-3/4" THICK PER CS242 MIN, REINFORCE FOR HARDWARE-BOTH FACES FOR CLOSER, SOUND DEADEN INTERIOR.
   - B. FRAMES - 16 GA COLD ROLLED, 2" FACES, CS242 MIN. 3 ANCHORS PER JAMB + ADJUSTABLE FLOOR ANCHOR, EACH JAMB REINFORCE FOR HARDWARE. PROVIDE STRIKE BOX, PROVIDE SOUND DEADENING: 1/8" UNDERCOATING OR INSULATING FILL.
3. WORKMANSHIP

   ALL WORK FABRICATED IN SHOP TO REQUIRED PROFILES BY FORMING AND WELDING, WITH ARISES AND EDGES STRAIGHT, SHARP FIT FABRICATED ACCURATELY WITH SQUARE CORNERS, HAIRLINE JOINTS AND SURFACES FREE FROM WARP, WAVE, BUCKLE OR OTHER DEFECTS AFTER FABRICATION, DOORS AND FRAMES CLEANED THOROUGHLY, ALL WELDS GROUND SMOOTH AND GIVEN PRIME COAT.

SECTION 9B PAINTS & COATINGS

1. SCOPE OF WORK,

   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PAINT BUILDING. ALL EXPOSED SURFACES OF BUILDING AND RAMPS SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES, THRESHOLDS, AND ROOFING.
2. MATERIALS

   A. FOR EXTERIOR WOOD:

REF.BRAND	DUNN EDWARDS	KELLY MOORE	SHERWIN WILLIAMS	SINCLAIR
PRIMER	42-9M	1240	Y24W20	289-N
FINISH	QD-60-XX	1240-XXX	B54WZ102	GE2-NXX

   B. FOR INTERIOR TRIM:

REF.BRAND	DUNN EDWARDS	KELLY MOORE	SHERWIN WILLIAMS	SINCLAIR
FINISH	W450-XX	1650-XXX	A26W11	40XX

   C. FOR METAL:

REF.BRAND	DUNN EDWARDS	KELLY MOORE	SHERWIN WILLIAMS	SINCLAIR
PRIMER	43-4	1710	B50NZ6	15N
FINISH	10-XX	1700-XXX	B54WZ102	GE2-NXX

   D. INTERIOR PAINT & COATINGS SHALL COMPLY WITH TITLE 24, PART 11, "CAL-GREEN" SECTION 5.504.4.3, AND V.O.C. LIMITS PER TABLE 5.504.4.3.
3. WORKMANSHIP

   ALL EXPOSED SURFACES SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES, THRESHOLDS AND METAL ROOFING, MATERIAL SHALL BE OF THE GRADE SPECIFIED OR EQUAL.
   - A. EXTERIOR WOOD SIDING, TRIM AND SKIRTING - FLAT OR SEMI-GLOSS LATEX. APPLY ONE COAT OF PRIME AND AT LEAST ONE FINISH COAT. PRIME COAT SHALL BE BRUSHED ON OR SPRAYED AND BACK BRUSHED INTO ALL GROOVES IN THE SIDING, IF NECESSARY, IN THE OPINION OF THE INSPECTOR, AN EXTRA COAT SHALL BE APPLIED TO ALL GROOVES SO THAT THE FINISH COAT WILL HAVE A UNIFORM APPEARANCE. ALLOW PRIME COAT TO DRY ACCORDING TO MANUFACTURER'S RECOMMENDATION. PRIME AND FINISH COATS SHALL BE COMPATIBLE AND MANUFACTURED BY THE SAME COMPANY.
   - B. INTERIOR TRIM - TRIM NOT PRE-COATED SHALL BE PAINTED WITH TWO COATS OF SEMI-GLOSS LATEX OVER PRIMER.
   - C. INTERIOR HARDWOOD CABINETS - TWO COATS LOW LUSTER POLYURETHANE FINISH. APPLY FIRST COAT THINNED WITH ONE QUART MINERAL SPIRITS PER GALLON. APPLY SECOND COAT AS RECOMMENDED BY MANUFACTURER.
   - D. METAL - ALL METAL SURFACES SHALL BE PAINTED WITH TWO COATS OF ALKYD FINISH COAT OVER ZINC CHROMATE OR EQUAL RUST INHIBITING PRIMER.
   - E. RAMP - ONE COAT OF FERROX NON-SLIP (0.8 MIN, C.O.F.) SURFACING AS MANUFACTURED BY AMERICAN ABRASIVE METALS OR COMPARABLE. ALL PAINTS OF THE TYPE INDICATED SHALL BE LISTED ON THE STATE OF CALIFORNIA QUALIFIED PRODUCTS LIST, OR EQUAL.
   - F. SUBMIT ONE SET OF COLOR SAMPLES TO THE RDPRC FOR EACH PRODUCT TO ASSIST IN SELECTION.

SECTION 9C INTERIOR AIR QUALITY CONTROL

THE INTERIOR ENVIRONMENT SHALL BE ASSEMBLED WITH PRODUCTS THAT CONTRIBUTE TO A HEALTHY INDOOR AIR QUALITY (IAQ), THE FOLLOWING SHALL COMPLY TITLE 24, PART 11 ("CAL-GREEN"):

1. ADHESIVES, SEALANTS, CAULKS — SECTION 5.504.4.1
2. PAINTS, COATINGS — SECTION 5.504.4.3
3. AEROSOL PAINTS & COATINGS — SECTION 5.504.4.3.1
4. CARPET SYSTEMS — SECTION 5.504.4.4
   - A. CARPET SHALL MEET CRI'S "GREEN LABEL PLUS" PROGRAM, NSF/ANSI "140 GOLD' LEVEL, OR OTHER APPROVED TESTING PER 5.504.4.4.
5. CARPET CUSHION OR PAD — SECTION 5.504.4.4.1
   - A. CUSHION/PAD SHALL MEET THE CRI'S "GREEN LABEL" PROGRAM.
6. CARPET ADHESIVE — SECTION 5.504.4.4.2
   - A. ADHESIVES SHALL MEET THE REQUIREMENTS OF TABLE 5.504.4.1.
7. COMPOSITE WOOD PRODUCTS — SECTION 5.504.4.5
   - A. ALL COMPOSITE WOODS MUST NOT EXCEED THE FORMALDEHYDE LIMITS AS SPECIFIED IN ARB'S "AIR TOXICS CONTROL MEASURE" (17 CCR 93120), OR NON-EXEMPT MATERIALS PER TABLE 5.504.4.5.
8. RESILIENT FLOORING SYSTEMS — SECTION 5.504.4.6
   - A. RESILIENT FLOORING SHALL BE CERTIFIED UNDER THE "FLOORSCORE" PROGRAM BY RFCI, COMPLY WITH CA-CHPS, OR OTHER APPROVED TESTING PER 5.504.4.6.
9. HVAC FILTER MERV RATING OF 13 AND MINIMUM 2-INCH DEPTH) SECTION 5.504.5.3.1
   - A. SEE SHEET M1.7 FOR HVAC FILTER REQUIREMENTS

SECTION 13 SITE ASSEMBLY

1. SCOPE OF WORK

   CONTRACTOR SHALL PROVIDE ALL LABOR MATERIALS AND SERVICES TO PREPARE THE BUILDING ELEMENTS, TRANSPORT THEM FROM THE PLANT TO THE SITE AND TO COMPLETE THE ASSEMBLY AT THE SITE. THE CONDITION OF THE SITE, SUCH AS DRAINAGE AND SOIL BEARING CAPACITY, SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT, UNLESS SPECIFICALLY CALLED FOR IN THE CONTRACT, STEPS, RAMPS, OR HANDRAILS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. ASSEMBLY OF ELEMENTS
   - A. IN A LOCATION ON THE SITE AS DETERMINED BY THE SCHOOL DISTRICT, (APPROVED BY DSA) THE CONTRACTOR SHALL PLACE WOOD LEVELING STRIPS OR OTHER SUITABLE SUPPORTS AS DETAILED ON THE DRAWINGS.
   - B. THE ELEMENTS SHALL BE BROUGHT TO THE SITE ON WHEEL ASSEMBLY AND TRANSFERRED TO THE PREPARED SITE. GREAT CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ELEMENTS BY RACKING OR BUMPING EACH OTHER.
   - C. CONNECTION OF THE ELEMENTS TOGETHER SHALL BE DONE ACCORDING TO INSTRUCTION ON THE DRAWINGS. FLASHINGS, TRIM AND OTHER LOOSE ITEMS SHALL BE INSTALLED PER DETAILS ON THE DRAWINGS.

SECTION 23 AIR CONDITIONING

1. SCOPE OF WORK (SEE SHEET M1.7 FOR HVAC SPEC. AND NOTES)

   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL THE AIR CONDITIONING SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFICATIONS, INCLUDING A/C UNITS AND ACCESSORIES, REMOTE THERMOSTAT, GRILLS AND POWER WIRING COMPLETE TO LOAD CENTER. CONTRACTOR SHALL INSTRUCT OWNER'S OPERATORS ON OPERATION AND MAINTENANCE OF A/C SYSTEM.
2. EQUIPMENT

   SEE NOTE ON FLOOR PLAN FOR SIZE AND TYPE.
3. WORKMANSHIP

   UNITS SHALL BE INSTALLED COMPLETE AND OPERATING WITH ALL ACCESSORIES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

SECTION 26 ELECTRICAL

1. SCOPE OF WORK
   - A. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES FOR ELECTRICAL INSTALLATION COMPLETE WITH ASSOCIATED EQUIPMENT AND FIXTURES, IN OPERATING CONDITION READY FOR USE. THE WORK INCLUDES: LIGHT AND POWER SYSTEMS, LIGHTING FIXTURES COMPLETE WITH LAMPS, CONNECTIONS AND DISCONNECTS TO A/C EQUIPMENT, EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVACS).
   - B. PROVIDE CONDUIT WITH PULL STRINGS AND JUNCTION BOXES FOR AUTOMATIC DETECTION FIRE ALARM SYSTEM AND NOTIFICATION PER NFPA 72.
2. MATERIALS

   ALL NEW COMPLYING WITH REQUIREMENTS OF CALIFORNIA ELECTRIC CODE AND NATIONAL FIRE PROTECTION ASSOCIATION.
   - A. ELECTRIC METALLIC TUBING - COUPLING AND FLEX CONDUIT GALVANIZED OR SHERARDIZED. EXTERIOR FLEX-GALV, STEEL WITH FACTORY APPLIED P.V.C. JACKET.
   - B. PANEL BOARDS - FLUSH MOUNTED.
   - C. CONDUCTORS - COPPER, INSULATED FOR 600 VOLTS, TYPE THHN FOR SIZES #12 TO #6, TYPE THW FOR LARGER SIZES. MINIMUM SIZE-#14.
   - D. RECEPTACLES - AS NOTED. +18" A.F.F. MIN. TO BOTTOM OF BOX
   - E. CLOCK RECEPTACLE - AS NOTED.
   - F. SWITCHES - AS NOTED, +48" A.F.F. MAX. TO TOP OF BOX
   - G. LIGHTING FIXTURES - AS NOTED ON THE DRAWINGS.
3. WORKMANSHIP

   MATERIALS AND EQUIPMENT INSTALLED IN A SECURE, NEAT, WORKMANLIKE MANNER IN ACCORDANCE WITH CODE REQUIREMENTS. PANEL BOARD CARDS SHALL BE FILLED OUT. CONDUIT AND CABLE INSTALLED IN WALL AND CEILING SPACES. WORK PIERCING WATERPROOFED AREAS FLASHED AND SEALED TO A WATERTIGHT CONDITION. BUILDING CONDUIT/WIRING FROM FACE OF BUILDING TO SITE TERMINATION BY SITE CONTRACTOR (N.I.C.). (FLEXIBLE CONDUIT S-BEND SEALTITE).

INSPECTION

INSPECTION OF PREFABRICATED BUILDINGS IS DIVIDED INTO TWO SEPARATE FUNCTIONS:

1. IN-PLANT INSPECTION.
2. ON-SITE INSPECTION.

THE CONTRACTOR SHALL ALLOW UP TO SEVEN (7) DAYS FROM THE DATE OF PLAN APPROVAL TO OBTAIN AN IN-PLANT INSPECTOR APPROVED BY D.S.A.

IN-PLANT INSPECTION AND MATERIAL TESTING SHALL BE ACCOMPLISHED UNDER THE SUPERVISION OF THE DISTRICT ARCHITECT. THE CONTRACTOR SHALL NOTIFY THE DISTRICT ARCHITECT, DSA, AND THE DESIGNATED INSPECTOR/INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK. THE MANUFACTURER SHALL PROVIDE THE INSPECTOR WITH FULL ACCESS TO ALL PLANT OPERATIONS INVOLVING WORK UNDER THIS CONTRACT AND SHALL ADVISE THE INSPECTOR IN ADVANCE OF THE TIME AND PLACE OF OPERATIONS THAT THE INSPECTOR WANTS TO OBSERVE TAKE PLACE. BEFORE THE BUILDING(S) ARE REMOVED FROM THE PLANT FOR DELIVERY TO THE STORAGE FACILITY, OR FROM THE STORAGE FACILITY TO THE SITE, THE INSPECTOR SHALL DETERMINE THAT THEY ARE ACCEPTABLE AND ISSUE A WRITTEN RELEASE WHICH SHALL BE IN THE FORM OF A VERIFIED REPORT (FORM DSA 152-IPI).

A COPY OF THE INSPECTOR'S VERIFIED REPORT SHALL ACCOMPANY EACH BUILDING TO STORAGE OR TO THE SITE. THE INSPECTOR SHALL PUT ONE COPY IN EACH BUILDING.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

COORDINATION OF WORK

THE CONTRACTOR IS RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS WITH THE SCHOOL DISTRICT AUTHORIZED REPRESENTATIVE FOR ACCESS TO GROUNDS AND REMOVAL OF EQUIPMENT, IF NECESSARY. THIS CONTACT SHALL BE MADE AT LEAST 48 HOURS PRIOR TO DELIVERY OF ANY MODULE. ON-SITE INSPECTION SHALL BE DONE BY THE SITE INSPECTOR. ALL WORK WHICH THE MANUFACTURER OR HIS SUBCONTRACTORS PERFORM AT THE SITE SHALL BE SUBJECT TO THE INSPECTION OF THE SITE INSPECTOR. THE MANUFACTURER WILL FURNISH THE SITE INSPECTOR WITH SUCH INFORMATION AS MAY BE NECESSARY TO KEEP HIM FULLY INFORMED AS TO PROGRESS OF WORK AND DATES WHEN SITE WORK WILL OCCUR. THE CONTRACTOR SHALL NOTIFY THE INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.

THE CONTRACTOR SHALL VERIFY THAT THE DISTRICT'S SITE IS READY TO RECEIVE THE CLASSROOM(S) PRIOR TO THE DELIVERY OF ANY CLASSROOM(S) BY VISITING EACH SITE (THIS MAY BE DONE BY THE INSPECTOR).

MATERIALS AND WORKMANSHIP

1. ALL CONTRACTORS SHALL CERTIFY THAT NO ASBESTOS-CONTAINING BUILDING MATERIALS WHICH EXCEED STATE AND FEDERAL MANDATED SAFE ASBESTOS LEVELS HAVE BEEN USED IN THE CONSTRUCTION OF RELOCATABLE FACILITIES.

2. ALL WORKMEN SHALL BE SKILLED AND QUALIFIED FOR THE WORK WHICH THEY PERFORM. ALL MATERIALS USED, UNLESS OTHERWISE SPECIFIED, SHALL BE NEW AND OF THE TYPES AND GRADES SPECIFIED. THE CONTRACTOR SHALL, IF REQUESTED, FURNISH EVIDENCE SATISFACTORY TO THE RDPRC THAT SUCH IS THE CASE.

3. CONTRACTOR'S CREWS ASSIGNED TO ANY WORK PERFORMED UNDER THIS CONTRACT SHALL INCLUDE ONE COMPETENT AND FULLY EXPERIENCED PERSON DESIGNATED AS THE RESPONSIBLE PERSON IN CHARGE. SUCH PERSON MUST BE IDENTIFIED BY NAME TO THE DISTRICT IN ADVANCE OF ANY WORK. UPON REQUEST, THE CONTRACTOR SHALL PROMPTLY FURNISH TO THE DISTRICT INFORMATION RELATING TO THIS EMPLOYEE'S EXPERIENCE.

4. WORKMANSHIP SHALL BE EQUAL OR BETTER IN QUALITY TO THAT REQUIRED BY THE CONSTRUCTION TRADES FOR A FINISHED PRODUCT. A QUALITY CONTROL SUPERVISOR, DESIGNATED BY THE MANUFACTURER, SHALL REVIEW ALL WORK IN PROGRESS AND SHALL REVIEW THE FINISHED BUILDING PRIOR TO FINAL INSPECTION TO ASSURE IT IS COMPLETE AND CORRECT. THE QUALITY CONTROL SUPERVISOR SHALL HAVE THE AUTHORITY TO HAVE MATERIALS REPLACED AND WORK REDONE IN ORDER TO CORRECT FAULTY MATERIALS OR WORKMANSHIP.

GENERAL DESIGN REQUIREMENTS

1. UP TO FOUR (4) MODULES, APPROXIMATELY 12' x 40', DESIGNED SO THAT TWO (2) OR MORE MODULES MAY BE JOINED TOGETHER TO FORM A COMPLETE STRUCTURE, TO MAINTAIN A POSITIVE ALIGNMENT OF FLOORS, WALLS, AND ROOF, AND TO PERMIT SIMPLE NON-DESTRUCTIVE DETACHMENT FOR FUTURE RELOCATION.

2. EACH MODULE SHALL BE PERMANENTLY IDENTIFIED WITH (2) IMPRINTED (STAMPED, NOT ENGRAVED) METAL IDENTIFICATION TAGS 3"x1-1/2" MINIMUM SIZE WITH THE FOLLOWING INFORMATION:

   A. MANUFACTURER'S NAME AND BUILDING SERIAL NUMBER.
   B. DESIGN WIND SPEED / EXPOSURE
   C. DESIGN SEISMIC S_{DS} VALUE
   D. DESIGN ROOF LIVE LOAD & SNOW LOAD.
   E. DESIGN FLOOR LIVE LOAD
   F. D.S.A. APPLICATION NUMBER

3. 2-TAGS PER MODULE: ONE ON EXTERIOR, AND ONE ON MODULE BEAM AT FRONT OF BUILDING ABOVE CEILING.

4. EACH MODULE SHALL BE CAPABLE OF RESISTING ALL VERTICAL AND LATERAL LOADS DURING TRANSPORTATION AND RELOCATION. (NORMAL INDUSTRY PRACTICE FOR BRACING MODULES DURING TRANSPORTATION AND RELOCATIONS IS ACCEPTABLE.) WHEN MODULES ARE ASSEMBLED JOINTS SHALL BE SEALED WITH REMOVABLE CLOSING STRIPS OR OTHER METHOD TO PRESENT A FINISHED APPEARANCE AND BE PERMANENTLY WATERPROOF.

5. EACH MODULE SHALL BE SUFFICIENTLY RIGID TO BE JACKED UP AT THE FRONT AND BACK CORNERS FOR RELOCATION WITHOUT DAMAGE OR THE MODULE SHALL HAVE LIFT LUGS AT FRONT AND BACK LOCATED AS REQUIRED SO THAT THE MODULE MAY BE JACKED UP FOR RELOCATION IN ONE PIECE WITHOUT ADDITIONAL SUPPORTS OF ANY TYPE. EVIDENCE OF EXCESSIVE BOWING DURING THE INSTALLATION OF THE MODULES WHICH, IN THE OPINION OF THE RDPRC, CAUSES EXCESSIVE WORKING AT ANY JOINT OR COMPROMISES THE STRUCTURAL INTEGRITY OF THE MODULE SHALL BE SUFFICIENT REASON FOR REJECTION OF THE MODULE.

6. FINISH AND BASE MATERIALS AT EACH MODULE SHALL TERMINATE AT INTERIOR MODULE JOINTS IN A MANNER TO JOIN FLUSH AND TIGHT WITH SAME MATERIAL IN ADJACENT MODULE SO THE MODULE MAY BE RELOCATED WITH MINIMUM CUTTING AND PATCHING.

MARKERBOARD SPECIFICATIONS

MARKERBOARDS SHALL BE 24 GA. PORCELAIN STEEL FACING SHEET SUITABLE TO ACCEPT DRY ERASE FELT MARKERS. THE FACING SHEET SHALL BE LAMINATED TO PARTICLE BOARD SUBSTRATE WITH A MINIMUM DENSITY OF 45lbs./cu.ft. THE PANEL SHALL HAVE A FOIL BACKING. THE PANELS SHALL HAVE EXTRUDED ALUMINUM MOLDING AND CHALKRAIL WITH A MINIMUM OF 2 15/16" PROJECTION FROM THE FACE OF PANEL. THREE MAP HOOKS WITH CLIPS PER PANEL SHALL BE PROVIDED. ONE FLAG HOLDER, 1/2" SIZE, SHALL BE PROVIDED FOR EACH CLASSROOM. EACH CLASSROOM SHALL HAVE 2 EACH 4'x8' PANELS INSTALLED SIDE BY SIDE TO MAKE A 4'x16' PANEL, CENTERED ON THE WALL.

FOR ANCHORAGE DETAIL, SEE DETAIL 8/A4.0.

REFERENCE BRANDS: CHATFIELD-CLARKE Co, Inc. SERIES 500 OR NELSON ADAMS Co. NACO SERIES 60.

INTERIOR

1. FLOOR COVERING: PER CBC SECTION 804, COMPLY WITH NFPA 253 CLASS I OR II. COMPLY WITH ASTM E 648 FOR SPECIFIC OPTICAL DENSITY SMOKE RATING NOT TO EXCEED 450. IN EXIT PASSAGEWAYS OR CORRIDORS, THE MINIMUM CRITICAL RADIANT FLUX (CBC 804.4.2) SHALL NOT BE LESS THAN CLASS II. (CARPET SHALL BE SECURELY ATTACHED, HAVE FIRM CUSHION, PAD OR BACKING, OR NONE AT ALL. PILE YARN SHALL BE BRANDED NYLON AND HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL-CUT PILE OR LEVEL-CUT/UNCUT PILE TEXTURE. THE MAXIMUM PILE HEIGHT SHALL BE 1/2" INCH. NO CROSS SEAMS SHALL BE ALLOWED. THE CARPET DENSITY SHALL BE 4600 MINIMUM. CARPET EDGE TRIM SHALL COMPLY WITH SECTION 11B-303. COLOR TO BE SELECTED BY THE RDPRC OR OWNER.)

2. BASE: RESILIENT COVE BASE - BEST QUALITY, MOULDED RUBBER, 1/8" THICK, 4" HIGH MOULDED TOP SET COVE. PROVIDE PREFORMED BASE FOR SQUARE EXTERNAL CORNERS AND PREFORMED END STOPS WHERE BASE DOES NOT ABUT. SOLID COLOR AS MANUFACTURE BY "JOHNSONITE CO.", FLEXCO, OR EQUAL. APPLY COVE TO COMPLETE PERIMETER OF CLASSROOM.

3. INTERIOR WALLS SHALL BE VINYL COVERED TACKBOARD (U.O.N.) APPLIED IN ONE CONTINUOUS LENGTH FROM FLOOR TO CEILING. THE TACKBOARD SHALL BE INDUSTRIAL INSULATION BOARD MANUFACTURED SPECIFICALLY AS A SUBSTITUTE FOR VINYL COVERED WALL PANELS. THE BOARD SHALL BE ASPHALT FREE, SHALL HAVE AN IRONED-ON COATING AND SHALL HAVE A MINIMUM DENSITY OF 18 LBS. PER FOOT. THE VINYL COATING SHALL BE MADE OF VIRGIN VINYL CALENDERED BASE COLOR, WEIGHING A MINIMUM OF 8 OZ. PER SQUARE YARD. THE COATING BACKING SHALL BE SHEETING OR NON-WOVEN FABRIC. THE VINYL COATING SHALL BE MECHANICALLY LAMINATED, WITH THE LONG EDGES WRAPPED, TO THE TACKBOARD. THE ASSEMBLY SHALL BE APPLIED OVER 1/2" SHEETROCK OR OSB SHEATHING. THE VINYL WALL COVERED PANEL SHALL HAVE A CLASS 'C' RATING (PER ASTM E 84 OR UL 723). FLAME SPREAD/SMOKE DEVELOPED INDEX MAXIMUMS PER NOTE #6 BELOW, THE PANEL SHALL BE APPROVED FOR CLASSROOM USE BY THE CALIFORNIA STATE FIRE MARSHAL. REFERENCE BRAND: VINYL COVERED TACKBOARD AS MANUFACTURED BY CHATFIELD-CLARKE OR COMPARABLE. CARE SHALL BE TAKEN IN MOUNTING THE TACKBOARD SO THAT THE TEXTURE OF ALL PANELS WILL HAVE THE SAME ORIENTATION AND COLOR MATCH.

4. CEILING: SUSPENDED T-BAR SYSTEM, SEE SHEET M1.4 FOR DETAILS, MATERIALS AND INSTALLATION PER ASTM C635, ASTM C636, ASTM E580, AND DSA-AR 25-2.13 AS APPLICABLE TO CLASSROOMS, PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL-FACED FIBERGLASS LAY-IN PANELS, SQUARE EDGE, LIGHT REFLECTION 75% MINIMUM. NOISE REDUCTION COEFFICIENT OF 0.65 MINIMUM. ASTM E 84 TESTED, RATED CLASS 'C'. FLAME SPREAD INDEX NOT TO EXCEED 200, SMOKE DEVELOPED INDEX RATING NOT TO EXCEED 450.

5. THE INTERIOR ENVIRONMENT SHALL BE ASSEMBLED WITH PRODUCTS THAT CONTRIBUTE TO A HEALTHY INDOOR AIR QUALITY (IAQ), THE FOLLOWING SHALL COMPLY TITLE 24, PART 11 ("CAL-GREEN"), SECTION 5.504.4. (SEE SHEET N1.0, SECTION 9C "INTERIOR AIR QUALITY CONTROL")

6. FLAME SPREAD/SMOKE-DEVELOPED INDEX (TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723, PER CBC 803.1.1):

WALL FINISH MATERIAL (CLASS 'C')	PIPE INSULATION (CLASS 'A')
FLAME SPREAD MAX = 200	FLAME SPREAD MAX = 25
SMOKE DEVELOPED MAX = 450	SMOKE DEVELOPED MAX = 450
BUILDING INSULATION (CLASS 'A')	**DUCT INSULATION (CLASS 'A')**
FLAME SPREAD MAX = 25	FLAME SPREAD MAX = 25
SMOKE DEVELOPED MAX = 450	SMOKE DEVELOPED MAX = 50

7. TOILET PARTITIONS: SOLID PLASTIC BY ACCURATE PARTITIONS CORP. OR EQUIVALENT w/ FLOOR ANCHORS, OVERHEAD BRACED OR EQUIVALENT. MINIMUM FLAME SPREAD RATING: 50. MINIMUM SMOKE DEVELOPMENT RATING: 450. (BY OTHERS)

8. INTERIOR VENTILATION: EAVE VENTS AND ATTIC VENTS SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE CLOTH SCREENING, HARDWARE CLOTH, PERFORATED VINYL OR SIMILAR MATERIAL WITH OPENINGS HAVING A LEAST DIMENSION OF NOT LESS THAN 1/16" AND NOT MORE THAN 1/4" INCH, PER C.B.C SECTION 1202.2.2.

DOORS & WINDOWS

1. EXTERIOR DOORS: METAL DOORS 3'-0"x7'-0" HOLLOW METAL DOOR CONSTRUCTION OF 1 SHEET OF 18 GA. GRADE II STEEL ASSEMBLED PER CS242 MINIMUM, AND REINFORCED WITH 20 GA. MINIMUM. FILL DOOR SPACES WITH MINERAL WOOL OR OTHER INSULATION. (REINFORCE BOTH FACES FOR CLOSURE.) PROVIDE FLUSH TOP ON DOORS. HARDWARE REINFORCEMENT SHALL BE 10 GA. MIN FOR HINGES, DOOR FRAME SHALL BE 16 GA. PRESSED STEEL FRAME ASTM A366 & C5242. HARDWARE REINFORCEMENT SHALL BE 10 GA. PLATE. FRAMES SHALL BE DESIGNED WITH INTEGRAL STOP AND TRIM. PROVIDE (3) ANCHORS PER JAMB PLUS ADJUSTABLE FLOOR ANCHOR. ROOMS WITH AN OCCUPANT LOAD OF FIVE OR MORE SHALL HAVE DOOR HARDWARE CAPABLE OF BEING LOCKED FROM THE INSIDE (PER CBC 1010.1.11).

2. EXTERIOR WINDOWS: PROVIDE ANODIZED ALUMINUM FRAME 5/8" MINIMUM DUAL PANE WINDOW UNITS, AS SHOWN ON FLOOR PLANS. THE 5/8" DIMENSION IS THE MINIMUM THICKNESS FOR THE DUAL GLAZED WINDOW PANEL CONSISTING OF TWO LITES OF GLASS AND THE AIR SPACE.

3. GLAZING MATERIAL SHALL BE: EXTERIOR LITE - 3/16" MINIMUM TEMPERED GLASS OR LAMINATED AS - 1 GLASS OF SOLAR GRAY GLARE REDUCING TYPE WITH A LIGHT TRANSMISSION FACTOR OF 45% MAXIMUM. INTERIOR LITE - 1/8" MINIMUM CLEAR TEMPERED. MINIMUM AIR SPACE SHALL BE 1/4" SPACE - BENT OR SEALED CORNER ALUMINUM WITH DESICCANT FILL SEALER - BUTYL PRIMARY SEAL AND POLYSULFIDE OR SILICONE SECONDARY SEAL. CERTIFICATION - ALL GLAZING TO BE CERTIFIED IN ACCORDANCE WITH ASTM E-773, E-774.

4. HEADER HEIGHT SHALL BE THE SAME AS THE DOOR. ALL OPERABLE SASH SHALL HAVE ALUMINUM SCREENS. WINDOWS SHALL NOT BE MOUNTED TO THE EXTERIOR OSB SURFACE. ALL WINDOWS SHALL MEET THE AAMA GS101-88 VOLUNTARY SPEC. FOR ALUMINUM PRIME WINDOWS AND SLIDING GLASS (ANS1), COMMERCIAL GRADE.

5. WINDOWS TO MATCH WHAT IS REQUIRED BY ENERGY REPORT. IF WINDOWS MUST BE NFRC RATED THAN NFRC LABELS SHALL BE LEFT ON THE WINDOWS FOR THE INSPECTOR TO VERIFY.

MECHANICAL EQUIPMENT PROTECTION

1. ALL MECHANICAL EQUIPMENT SHALL BE THOROUGLY CLEANED PROGRESSIVELY DURING CONSTRUCTION AND COMPLETION OF THE JOB. ALL OPEN ENDS OF DUCTWORK AND EQUIPMENT SHALL BE COVERED AT END OF EACH WORK DAY AND DURING SHIPMENT OF RELOCATABLE BUILDINGS

FOUNDATION CLEARANCES FROM SLOPES

CBC 1808A.7.1 BUILDING CLEARANCE FROM ASCENDING SLOPES. IN GENERAL. BUILDINGS BELOW SLOPES SHALL BE SET A SUFFICIENT DISTANCE FROM THE SLOPE TO PROVIDE PROTECTION FROM SLOPE DRAINAGE, EROSION AND SHALLOW FAILURES. EXCEPT AS PROVIDED IN SECTION CBC 1808A.7.5 AND FIGURE CBC 1808A.7.1, THE FOLLOWING CRITERIA WILL BE ASSUMED TO PROVIDE THIS PROTECTION. WHERE THE EXISTING SLOPE IS STEEPER THAN ONE UNIT VERTICAL IN ONE UNIT HORIZONTAL (100-PERCENT SLOPE), THE TOE OF THE SLOPE SHALL BE ASSUMED TO BE AT THE INTERSECTION OF A HORIZONTAL PLANE DRAWN FORM THE TOP OF THE FOUNDATION AND A PLANE DRAWN TANGENT TO THE SLOPE AT AN ANGLE OF 45 DEGREES (0.79 RAD) TO THE HORIZONTAL. WHERE A RETAINING WALL IS CONSTRUCTED AT THE TOE OF THE SLOPE, THE HEIGHT OF THE SLOPE SHALL BE MEASURED FROM THE TOP OF THE WALL TO THE TOP OF THE SLOPE.

CBC 1808A.7.2 FOUNDATION SETBACK FROM DESCENDING SLOPE SURFACE.
FOUNDATIONS ON OR ADJACENT TO SLOPE SURFACES SHALL BE FOUNDED IN FIRM MATERIAL WITH AN EMBEDMENT AND SET BACK FROM THE SLOPE SURFACE SUFFICIENT TO PROVIDE VERTICAL AND LATERAL SUPPORT FOR THE FOUNDATION WITHOUT DETRIMENTAL SETTLEMENT. EXCEPT AS PROVIDED FOR IN SECTION CBC 1808A.7.5 AND FIGURE CBC 1808A.7.1, THE FOLLOWING SETBACK IS DEEMED ADEQUATE TO MEET THE CRITERIA. WHERE THE SLOPE IS STEEPER THAN 1 UNIT VERTICAL IN 1 UNIT HORIZONTAL 100-PERCENT SLOPE), THE REQUIRED SETBACK SHALL BE MEASURED FROM AN IMAGINARY PLANE 45 DEGREES (0.79 RAD) TO THE HORIZONTAL, PROJECTED UPWARD FROM THE TOE OF THE SLOPE.

FIRE EXTINGUISHER

1. EACH CLASSROOM SHALL BE EQUIPPED WITH PRESSURE TYPE FIRE EXTINGUISHERS WITH 2A10BC UL RATING, MOUNT ON THE INTERIOR WALL OF THE BUILDING NEAR THE DOORWAY(S) AT A MAXIMUM HEIGHT OF 4 FEET TO THE TOP OF THE OPERATING HANDLE, AND THE BOTTOM OF F.E. MOUNTED 27" OR LESS A.F.F. FIRE EXTINGUISHERS SHALL BE TOTALLY CHARGED AND HAVE A DIAL INDICATING THE STATE OF CHARGE.

ACCESSIBILITY STANDARDS

REFERENCE: 2019 CALIFORNIA BUILDING CODE (TITLE 24, PART 2, CCR), CHAPTER 11B "ACCESSIBILITY TO PUBLIC..."

SECTION 11B-206.2 BUILDING ACCESSIBILITY, GENERAL
1. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ALL BUILDINGS, ELEMENTS, AND AREAS, AND EACH FLOOR INCLUDING MEZZANINES.

SECTION 11B-216 SIGNAGE
(ALSO REFER TO SECTIONS 11B-703, 1009.9, 1009.10, 1023.9)
SIGNAGE IS REQUIRED:
1. TO IDENTIFY PERMANENT ROOMS & SPACES
2. TO PROVIDE DIRECTIONS AND INFORMATION ABOUT SPACES & FACILITIES
3. TO IDENTIFY MEANS OF EGRESS
   A. AREAS OF REFUGE AND AREA FOR ASSISTED RESCUE (PER 1009.9 AND 1009.11)
   B. DIRECTIONS TO AN EXIT (PER 1009.10)
   C. DELAYED EGRESS LOCKS (PER 1010.1.9.7 ITEM 6)
   D. EXIT WAYS (PER 1013.4)
      - AT EACH GRADE LEVEL EXTERIOR EXIT DOOR
      - AT AN EXIT BY MEANS OF A STAIRWAY OR RAMP ("EXIT STAIR DOWN" OR "EXIT RAMP DOWN")
      - AT AN EXIT ROUTE VIA ENCLOSURE, PASSAGEWAY, CORRIDOR, HALLWAY, ETC.
      - OTHER HORIZONTAL WAYS WHERE THE EXIT OR EXIT PATH IS NOT IMMEDIATELY VISIBLE (PER 1013.1)
4. TO IDENTIFY ACCESSIBLE PARKING SPACES
5. TO IDENTIFY ENTRANCES OR ROUTE TO AN ACCESSIBLE ENTRANCE
6. TO IDENTIFY ELEVATORS
7. TO IDENTIFY TOILET ROOMS
8. TO IDENTIFY PUBLIC TELEPHONES, TTY and ASSISTIVE LISTENING SYSTEMS

SIGNS, WHERE LOCATED WITHIN AN ACCESSIBLE ROUTE, MOUNTED LESS THAN 80" ABOVE THE FINISHED FLOOR, MUST HAVE ROUNDED EDGES OR AN EASED RADIUS MINIMUM OF 0.125".

SECTION 11B-404.2.8 DOOR CLOSING SPEED
1. THE SWEEP PERIOD OF ACCESSIBLE DOORS SHALL BE 5 SECONDS MINIMUM, FROM AN OPEN DOOR POSITION OF 90 DEGREES, TO A DOOR POSITION OF 12° FROM THE LATCH.

SECTION 11B-404.2.9 DOOR OPENING FORCE
1. THE EFFORT TO OPEN ANY DOOR SHALL NOT EXCEED 5LBS, EXCEPT FIRE DOORS, WHICH SHALL NOT EXCEED 15LBS FORCE, THE MINIMUM FORCE NEEDED SHALL BE USED.

SECTIONS 11B-404.2.4.3 RECESSED DOORS
1. DOORS RECESSED 8" OR MORE SHALL HAVE STRIKE EDGE CLEARANCES IN ACCORDANCE WITH FIGURE 11B-404.2.4.3.

SECTION 11B-405.5 RAMP WIDTH
1. THE CLEAR WIDTH OF A RAMP SHALL BE 48" MINIMUM.

SECTION 11B-505 HANDRAILS
1. THE TOP OF THE GRIPPING SURFACE OF HANDRAILS SHALL BE BETWEEN 34" AND 38", MEASURED VERTICALLY FROM WALKING SURFACES AND STAIR NOSINGS.
2. HANDRAILS SHALL HAVE AT LEAST 1-1/2" CLEARANCE ALONG THEIR SIDES; MAX. 20% OBSTRUCTIONS ON THEIR BOTTOMS (11B-505.6).
3. HANDRAILS SHALL EXTEND BEYOND, AND IN THE SAME DIRECTION, OF STAIRS AND RAMPS.

SECTION 11B-606.4 WATER CONTROLS
1. CONTROLS TO OPERATE A WATER FAUCET OR OUTLET SHALL BE A SINGLE-LEVER DESIGN, CAPABLE OF BEING OPERATED WITH A SINGLE HAND, AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST.
2. THE FORCE REQUIRED TO OPERATE CONTROLS SHALL NOT EXCEED 5 LBS.

SECTION 11B-604 TOILET ROOMS AND BATHING ROOMS
1. AN ACCESSIBLE TOILET STALL SHALL HAVE A MINIMUM WIDTH OF 60" AND SHALL BE EQUIPPED WITH A DOOR THAT HAS AN AUTOMATIC-CLOSING DEVICE, AND SHALL HAVE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32 INCHES WHEN LOCATED AT THE END AND 34 INCHES WHEN LOCATED AT THE SIDE, WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.
2. THE INSIDE AND OUTSIDE OF THE ACCESSIBLE COMPARTMENT DOOR SHALL BE EQUIPPED WITH A LOOP OR U-SHAPED HANDLE IMMEDIATELY BELOW THE LATCH. THE LATCH SHALL BE FLIP-OVER STYLE, SLIDING OR OTHER HARDWARE NOT REQUIRING THE USER TO GRASP OR TWIST. THE LATCH AND PULL SHALL COMPLY WITH 11B-404.2.7. MAXIMUM 5 LB FORCE TO ACTIVATE (11B-309.4).
3. EXCEPT FOR DOOR-OPENING WIDTHS AND DOOR SWINGS, A CLEAR, UNOBSTRUCTED SPACE OF NOT LESS THAN 44 INCHES SHALL BE PROVIDED TO THE WATER CLOSET COMPARTMENTS DESIGNED FOR USE BY PERSONS WITH DISABILITIES.
4. A 27"-29" MINIMUM DIMENSION IS REQUIRED FOR LAVATORY/SINK KNEE CLEARANCE, WHICH IS THE DISTANCE FROM THE FINISH FLOOR TO THE UNDERSIDE OF THE LAVATORY/SINK AND THE LAV FRONT EDGE.
5. TABLE 11B-604.9 SUGGESTS DIMENSIONS FOR CHILDREN'S USE.
6. TOILET ACCESSORIES LOCATED IN THE CIRCULATION PATH AND WITH THE BOTTOM MOUNTED ABOVE 27", SHALL BE MAX 4" DEEP (11B-307.2).

OUTDOOR VENTILATION REQUIREMENTS:

1. CLASSROOMS ARE DESIGNED FOR MINIMUM OUTSIDE AIR OF 0.38 CFM PER SF, PER THE CALIFORNIA ENERGY CODE (CEC). SPACES SHALL BE DESIGNED TO THE MINIMUM REQUIREMENTS AS SPECIFIED OR TO 15 CFM PER OCCUPANT, WHICHEVER IS GREATER. THE BUILDING MANUFACTURER SHALL VERIFY WITH THE SCHOOL DISTRICT THE EXPECTED NUMBER OF OCCUPANTS IN THE CLASSROOM SO THAT THE OUTDOOR VENTILATION RATE FOR MECHANICAL SYSTEMS CAN BE ADEQUATELY ADJUSTED UPON SITE INSTALLATION OF THE BUILDING. THE BUILDING MANUFACTURER SHALL ALSO CONFIRM WITH HVAC EQUIPMENT MANUFACTURER THAT THE SELECTED EQUIPMENT WILL BE ABLE TO PERFORM TO ACCOMMODATE THE ADDITIONAL OUTDOOR AIR REQUIREMENTS UNDER PEAK DESIGN CONDITIONS FOR THE CLIMATE ZONE IN WHICH THE BUILDING IS LOCATED. AT OCCUPANCY, THE BUILDING MANUFACTURER SHALL PROVIDE TO BUILDING OWNER A DESCRIPTION OF THE QUANTITIES OF OUTDOOR AND RECIRCULATED AIR THAT THE VENTILATION SYSTEMS ARE DESIGNED TO PROVIDE TO EACH AREA.

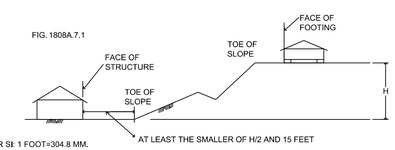


FIG. 1808A.7.1
FOR SI: 1 FOOT=304.8 MM.

FASTENERS FOR ATTACHMENT TO STEEL

1. SCREWS FOR STEEL TO STEEL & WOOD TO STEEL CONNECTIONS SHALL BE SELF-DRILLING, SELF-TAPPING SCREWS (SDSTS) PER ASTM C1513, UON.
   A. HEAD TYPE AS REQUIRED FOR APPLICATION.
   B. SCREW LENGTHS TO HAVE 3 EXPOSED THREADS MIN.
2. SHOT PINS SPECIFIED FOR PLYWOOD DIAPHRAM TO STEEL CONNECTIONS SHALL BE ET&F PINS PER IAPMO UES REPORT ER-0335.
3. SHOT PINS FOR ATTACHMENT OF 2X WOOD OR LIGHT GAUGE STEEL MEMBERS TO STRUCTURAL STEEL SHALL BE BY HILTI UNO.

ABBREVIATION LEGEND

A	ACCESSIBLE	FRP	FIBERGLASS REINFORCED PLASTIC PANELS		RESPONSIBLE CHARGE
AC	ASPHALT CONCRETE	FT	FOOT	RDWD	REDWOOD
A/C	AIR CONDITIONING	FTG	FOOTING	REF	REFERENCE
ACI	AMERICAN CONCRETE INSTITUTE	FURR	FURRED (-ING)	REFR	REFRIGERATOR
ACOUS	ACOUSTICAL	GA	GAUGE	REINF	REINFORCING
ADD	ADDENDUM	GB	GYPSUM BOARD	REQ'D/REQ	REQUIRED
ADD'L	ADDITIONAL	GL	GLASS OR GLAZING	RES	RESILIENT
ADJ	ADJUSTABLE OR ADJACENT	GLV/GALV	GALVANIZED	RDWD	REDWOOD
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	GSM	GALVANIZED SHEET METAL	RWL	RAIN WATER LEADER
		GYP	GYPSUM		
AISI	AMERICAN IRON AND STEEL INSTITUTE	GYP.BD.	GYPSUM BOARD	SCH/SCHED	SCHEDULE
ALT	ALTERNATE			SD	STORM DRAIN
ALUM	ALUMINUM	HB	HOSE BIBB	SDSTS	SELF DRILLING SELF TAPPING SCREW
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	H.C.	HOLLOW CORE	SEC	SECTION
		HDR	HEADER	SEP	SEPARATION
ARCH	ARCHITECT(URAL)	HDW	HARDWOOD	SF	SQUARE FEET
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	HF	HEM FIR	SHT	SHEET
		HM	HOLLOW METAL (STEEL)	SHTG	SHEATHING
AWC	AMERICAN WOOD COUNCIL	HOR/HORIZ	HORIZONTAL	SIM	SIMILAR
AWPA	AMERICAN WOOD PROTECTION ASSOCIATION	HSS	HOLLOW STRUCTURAL SECTION (STEEL)	SMS	SHEET METAL SCREW
		HT	HEIGHT	SP	STRUCTURAL PLYWOOD
AWS	AMERICAN WELDING SOCIETY	HVAC	HEATING VENTILATING AIR CONDITIONING	SPEC	SPECIFICATIONS
		HW	HOT WATER	SQ	SQUARE
BD	BOARD			SS	STAINLESS STEEL
BLDG	BUILDING	IAPMO	INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS	STAGG	STAGGERED
BLK	BLOCK			STN	STAIN
BLKG	BLOCKING	ICC	INTERNATIONAL CODE COUNCIL	STD	STANDARD
BLW	BELOW	ID	INSIDE DIAMETER	STL	STEEL
BM	BEAM	IN	INCH	STS	SELF TAPPING SCREW
BN	BOUNDARY NAILING	INSUL	INSULATE (D), (ION)	STSMS	SELF TAPPING SHEET METAL SCREW
BOT/BOTT	BOTTOM	INT	INTERIOR		
BTWN	BETWEEN	INV	INVERT	T&B	TOP AND BOTTOM
BUR	BUILT UP ROOFING	IR	INTERPRETATION OF REGULATIONS	T&G	TONGUE AND GROOVE
C	CARPET	ISA	INTERNATIONAL SYMBOL OF ACCESSIBILITY/ACCESS	TEMP	TEMPERED
CAB	CABINET			THRU	THROUGH
CB	CATCH BASIN	JT	JOINT	TJ	TOOL JOINT
CBC	CALIFORNIA BUILDING CODE			TOC	TOP OF CURB, CRICKET, OR CONCRETE
CCR	CALIFORNIA CODE OF REGULATIONS	KSI	KIPS PER SQUARE INCH (KIPS = 1,000LBS)	TOP	TOP OF PARAPET
CEM	CEMENT			TOS	TOP OF SLAB, SHEATHING, OR STEEL
CF	CUBIC FOOT	LAM	LAMINATE(D)	TOW	TOP OF WALL
CJ	CONTROL JOINT	LAV	LAVATORY	TRANS	TRANSVERSE
CJP	COMPLETE JOINT PENETRATION	LB, LBS	POUND	TS	TOP OF SHEATHING
CLG	CEILING	LLH	LONG LEG HORIZONTAL	TV	TELEVISION
CLR	CLEAR	LLV	LONG LEG VERTICAL	TYP	TYPICAL
CT	CERAMIC TILE	LNDG	LANDING		
CMU	CONCRETE MASONRY UNIT	LONG	LONGITUDINAL	UON	UNLESS OTHERWISE NOTED
CNEL	COMMUNITY NOISE EQUIVALENT LEVEL	LS	LAG SCREW	UNO	UNLESS NOTED OTHERWISE
CO	CLEAN OUT	LT	LIGHT		
COL	COLUMN	LW	LIGHT WEIGHT	VAR	VARIES
CONC	CONCRETE	LWC	LIGHT WEIGHT CONCRETE	VCT	VINYL COMPOSITION TILE
CONN	CONNECTION			VCTB	VINYL COVERED TACKBOARD
CONT	CONTINUOUS	MATL	MATERIAL	VERT	VERTICAL
CSK	COUNTERSINK	MAX	MAXIMUM	VOC	VOLATILE ORGANIC COMPOUND(S)
CTRD	CENTERED	MB	MECHANICAL BOLT	VFY	VERIFY
CW	COLD WATER	MECH	MECHANICAL	VIF	VERIFY IN FIELD
		MFG	MANUFACTURING	VWC	VINYL WALL COVERING
DBL	DOUBLE	MFR	MANUFACTURER		
DET	DETAIL	MIN	MINIMUM	W/	WITH
DF	DRINKING FOUNTAIN OR DOUGLAS FIR	MIR	MIRROR	WD	WOOD
DIA	DIAMETER	MISC	MISCELLANEOUS	WF	WIDE FLANGE
DIAG	DIAGONAL	MM	MILLIMETER	WIN	WINDOW
DIM	DIMENSION	MTL	METAL	W/O	WITHOUT
DIV	DIVISION			WS	WOODSCREW
DR	DOOR	(N)	NEW	WSCT	WAINSCOT
DS	DOWNSPOUT	NIC	NOT IN CONTRACT	WT	WEIGHT
DSA	DIVISION OF THE STATE ARCHITECT	NDS	NATIONAL DESIGN SPECIFICATION	WWF	WELDED WIRE FABRIC
DWG	DRAWING	NW	NORMAL WEIGHT		
		NWC	NORMAL WEIGHT CONCRETE	∠	ANGLE
(E)	EXISTING			@	AT
EA	EACH	O/	OVER	℄	CENTER LINE
EJ	EXPANSION JOINT	OC	ON CENTER	Ø	DIAMETER
ELEV	ELEVATION	OD	OUTSIDE DIAMETER	°	DEGREES
ELECT	ELECTRICAL	OH	OPPOSITE HAND OR OVERHANG	M	MODULE LINE
EMBED	EMBEDMENT	OL	OCCUPANT LOAD	±	PLUS/MINUS
EMT	ELECTRICAL MAGNETIC TUBING	OPG	OPENING		
EN	EDG

DOORS

DOOR NO.	DOOR TYPE	DOOR SIZE	QUANTITY	MATERIAL	FINISH	HARDWARE SET NO.	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	REMARKS
1	D1	3'-0" x 7'-0"	80	HM	PT	A	F1	S	PT	HARDWARE LOCKABLE FROM THE INSIDE, SEE DOOR NOTE #3

DOOR ABBREVIATIONS

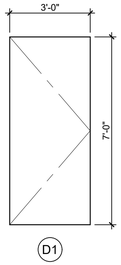
HM - HOLLOW METAL
~~AL - ALUMINUM~~
~~S - STEEL~~
SST - STAINLESS STEEL
STL - STEEL FRAME, 16ga. FULLY WELDED
~~WWF - WINDOW WALL FRAME~~

SC - SOLID CORE WOOD
HC - HOLLOW CORE WOOD
PT - PAINTED
~~CA - CLEAR ANODIZED~~
BR - BRONZE ANODIZED
~~CLR - CLEAR FINISH~~

DOOR NOTES

1. DOORS SHALL COMPLY WITH C.B.C. SECTION 1010.
2. CLASSROOMS > 1000 S.F WILL REQUIRE PANIC HARDWARE THAT COMPLIES WITH C.B.C. SECTION 1010.1.10.
3. PER C.B.C. 1010.1.11: PROVIDE LOCKS THAT ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANCY OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INSIDE. LOCKS SHALL COMPLY WITH C.B.C. SECTION 1010.1.9.

DOOR SCHEDULE



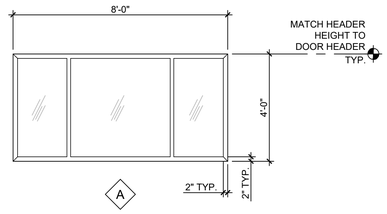
DOOR TYPES

WINDOW SCHEDULE

WINDOW TYPE	QTY.	FUNCTION	'W' WIDTH	'H' HEIGHT	FINISH	GLASS TYPE	U FACTOR	SHGC	VT MIN	MIN STC RATING	REMARKS
A	60	FIXED	8'-0"	4'-0"	BRONZE ANODIZED	SOLAR GREY[6]	0.780	0.430	0.37	27	INOPERABLE

1. EXTERIOR LITE - 3/16" MINIMUM TEMPERED GLASS, OR LAMINATED AS 1 GLASS OF SOLAR GRAY GLARE REDUCING TYPE WITH A LIGHT TRANSMISSION FACTOR OF 45% MAXIMUM.
2. WINDOWS THAT MEETS ALL OF THE FOLLOWING CONDITIONS SPECIFIED IN SECTION 2406.4.3, SHALL BE CONSIDERED A HAZARDOUS LOCATION:
   A. THE EXPOSED AREA OF AN INDIVIDUAL PANE IS GREATER THAN 9 SQUARE FEET.
   B. THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18" ABOVE FINISH FLOOR.
   C. THE TOP EDGE OF THE GLAZING IS GREATER THAN 36" ABOVE FINISH FLOOR.
   D. ONE OR MORE WALKING SURFACE(S) ARE WITHIN 36", MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, OF THE PLANE OF THE GLAZING.
3. WINDOWS THAT ARE CONSIDERED A HAZARDOUS LOCATION SHALL CONTAIN FULLY TEMPERED SAFETY GLAZING & MEET THE FOLLOWING REQUIREMENTS:
   A. PASS THE IMPACT TEST REQUIREMENTS IN ACCORDANCE WITH "CPSC 16 CFR PART 1201" PER SECTION 2406.2, WITH A TEST CRITERIA OF CATEGORY II, UNLESS OTHERWISE INDICATED IN C.B.C. TABLE 2406.2(1).
   B. IDENTIFICATION OF SAFETY GLAZING PER C.B.C. 2406.3
4. ALL WINDOWS SHALL HAVE METAL FRAMES AND BE MANUFACTURED BY OTHERS.
5. WINDOWS ARE NOT NFRC RATED (UP TO 1,000 SF. OF GLAZING IF ALLOWED TO USE DEFAULT VALUES FROM TABLE 110.6-A & 110.6-B).
6. THE MINIMUM STANDARD GLASS TYPE FOR ALL WINDOWS SHALL SOLAR GREY GLAZING. UPGRADED GLAZING (LOW E, LOW E2, ETC.) MAY BE USED PER SITE SPECIFIC REQUIREMENTS.

WINDOW TYPES



NOTE: WINDOWS ARE INOPERABLE.

FINISHES

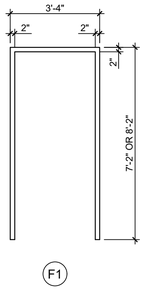
ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALLS FRONT	WALLS REAR	WALLS RIGHT	WALLS LEFT	CEILING	CEILING HEIGHT	REMARKS
101	CLASSROOM	A	D	F	F	F	F	K	8'-6"	
102	CLASSROOM	A	D	F	F	F	F	K	8'-6"	

FINISH INDICATOR OPTIONS

A - CARPET; PER STATE OF CALIF SPEC COMPLYING WITH GROUP 1, TYPE A OR TYPE B, CLASS 2, DENSITY 4600. (TO BE PROVIDED BY OTHERS).
~~B - VINYL SHEET FLOORING; 0.6 MIN, C.O.F. PER ASTM D 2047~~
~~C - VCT; ARMSTRONG, STANDARD, OR EXCELON.~~
D - TOP SET BASE; 4" - (TO BE PROVIDED BY OTHERS)
~~E - TOP SET BASE; 6"~~
F - WALL FINISH; 1/2" VINYL TACKBOARD CLASS 1 OVER 1/2" GYP BOARD BACKING
~~G - 1/2" W.R. GYP BOARD; TAPE, PAINTED FINISH~~
~~H - 1/2" GYP BOARD; TAPE, PAINTED FINISH~~
~~J - 3/32" F.R.P.; OVER 1/2" W.R. GYP BOARD~~
K - ACOUSTICAL LAY-IN GRID CEILING PANELS; 2'x2' OR 2'x4'
~~L - 1/2" VINYL TACKBOARD; CLASS 1, OVER 5/8" TYPE "X" GYP BOARD BACKING~~
~~M - 5/8" TYPE 'X' GYP BOARD; TAPE, TEXTURE, PAINTED FINISH~~
~~N - CERAMIC TILE - (FULL HEIGHT AT WALLS)~~
~~O - NOT USED~~
~~P - NOT USED~~

ROOM FINISHES SCHEDULE

DOOR FRAME TYPES



A	~~EXTERIOR DOOR LOCKSET w/LEVER RHODES SCHLAGE ND95PD~~
B	EXTERIOR DOOR PANIC BAR w/PULL ON EXTERIOR VON DUPRIN AX22NL (REQUIRED WHEN OCCUPANT LOAD IS 50 0R MORE)
C	~~INTERIOR PASSAGE COPPER CREEK 6220-PASSAGE w/ADA LEVER~~
D	~~INTERIOR RESTROOM COPPER CREEK 6231-RESTROOM w/ADA LEVER~~
E	~~INTERIOR ENTRY/OFFICE COPPER CREEK 6241-ENTRY/OFFICE w/ADA LEVER~~
F	~~INTERIOR STOREROOM COPPER CREEK 6250-STOREROOM w/ADA LEVER~~
G	~~INTERIOR CLASSROOM COPPER CREEK 6260-CLASSROOM w/ADA LEVER~~

EXTERIOR DOOR HARDWARE

1. HINGES: HAGER 4-1/2x4-1/2 BUTTS, BB1279 US26D, 1-1/2 PAIR PER DOOR, WITH SET SCREW IN BARREL AND BALL BEARING DESIGN.
2. CLOSER: NORTON 8500DA OR 8500BF SERIES, LCN 1460 DEL SERIES OR EQUAL. (5 LBS. MAX. PRESSURE)
3. WEATHERSTRIPPING: ALL EXTERIOR DOORS SHALL BE WEATHERSTRIPPED WITH PEMKO 299D, ULTRA WS007 OR EQUAL, AT DOOR JAMBS AND HEAD.
4. THRESHOLD: THRESHOLD SHALL BE PEMKO 271 AV 5" ALUMINUM WITH PEMKO 216 AV ULTRA TH042 DOOR BOTTOM.
5. LOCKDOWN: INTERIOR TEACHERS' MANUAL LOCK FOR CAMPUS LOCK DOWN CRITERIA - REQUIRED FOR STATE-FUNDED SCHOOLS, PER EDUCATION CODE SECTION 17075.50 (AND ALSO CBC 1010.1.11): PROVIDE LOCKS THAT ALLOW DOORS TO CLASSROOMS AND ANY ROOM WITH AN OCCUPANCY OF FIVE OR MORE PERSONS TO BE LOCKED FROM THE INSIDE. LOCKS SHALL COMPLY WITH C.B.C. SECTION 1010.1.9.

*ADDITIONAL DOORS MAY BE REQUIRED BASED ON BUILDING LAYOUT.

DOOR HARDWARE NOTES

1. OPERABLE PARTS OF DOOR HARDWARE SHALL BE 34" MINIMUM AND 44" MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.
2. HANDLES, PULLS, LATCHES, LOCKS AND OTHERS OPERABLE PARTS ON DOORS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 lbs. MAX. (11B-404.2.7, 11B-309.4)

DOOR HARDWARE SCHEDULE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)
2GO®

SITE SPECIFIC PROJECT NAME

MMM
(20) BUILDINGS

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
PATRICK J. HOWE
No. C12631
Ren. 9-31-25
STATE OF CALIFORNIA

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

REVISIONS

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	06/01/2023
PROJECT NO:	1791-23

SHEET TITLE:

TYPICAL SCHEDULES
DOORS, WINDOWS
& FINISHES

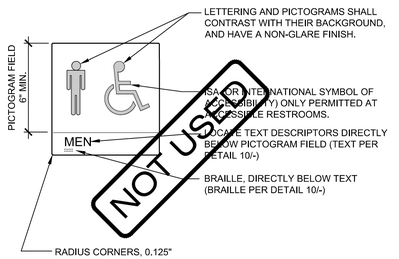
SHEET NUMBER:

N3.0

ID:XXXXX_{44442A7D5C6-2BA-4EA1-B0...}

WALL MOUNTED RESTROOM SYMBOLS-MEN — NOT TO SCALE — 1

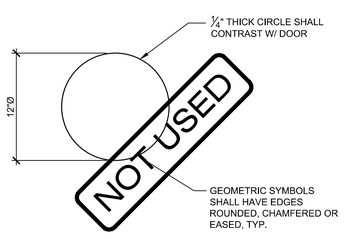
NOTE:
* (SIGN....)



NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
2. LOCATE PER DETAIL 4/-
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

DOOR MOUNTED RESTROOM SYMBOLS-WOMEN — NOT TO SCALE — 2

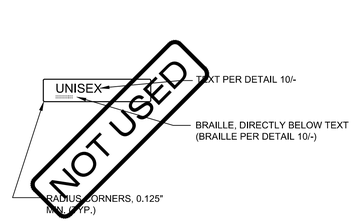
NOTE:
* (SIGN....)



NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH DOOR MATERIAL.
2. LOCATE PER DETAIL 4/-.
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. GEOMETRIC SYMBOLS SHALL COMPLY WITH 11B-703.7.2.6

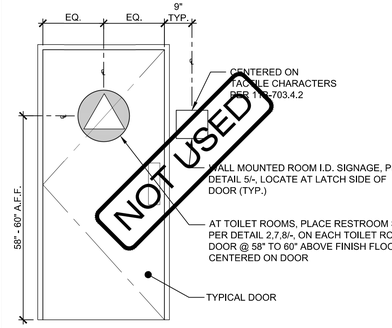
WALL MOUNTED RESTROOM SYMBOLS-UNISEX — NOT TO SCALE — 3

NOTE:
* (SIGN....)



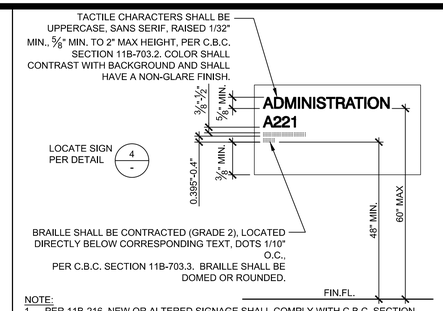
NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
2. LOCATE PER DETAIL 4/-.
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. THE UNISEX WALL-MOUNTED SIGN SHALL HAVE RAISED TEXT, CORRESPONDING BRAILLE, AND NO PICTOGRAM (DSA BU 17-01)

ROOM IDENTIFICATION SIGNAGE — NOT TO SCALE — 4



NOTE:
SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

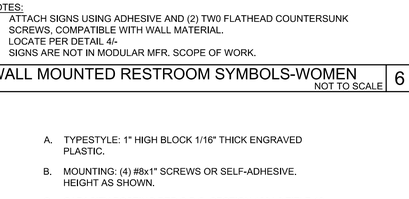
PERMANENT ROOM I.D. SIGNAGE — NOT TO SCALE — 5



NOTE:
1. PER 11B-216, NEW OR ALTERED SIGNAGE SHALL COMPLY WITH C.B.C. SECTION 11B-703.
2. FOR REQUIRED TACTILE & NON-TACTILE SIGNS LOCATIONS, SEE SHEET N2.0, ACCESSIBILITY STANDARDS, "SECTION 11B-216".
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. ATTACH SIGNS USING ADHESIVE OR MIN (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.

WALL MOUNTED RESTROOM SYMBOLS-WOMEN — NOT TO SCALE — 6

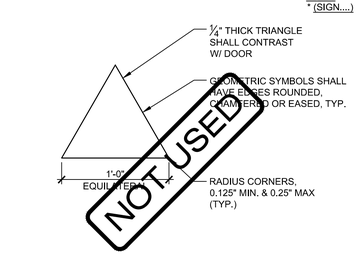
NOTE:
* (SIGN....)



NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TW0 FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
2. LOCATE PER DETAIL 4/-
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

DOOR MOUNTED RESTROOM SYMBOL-MEN — NOT TO SCALE — 7

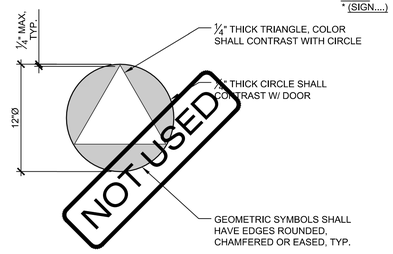
NOTE:
* (SIGN....)



NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TW0 FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH DOOR MATERIAL.
2. LOCATE PER DETAIL 4/-
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. GEOMETRIC SYMBOLS SHALL COMPLY WITH 11B-703.7.2.6

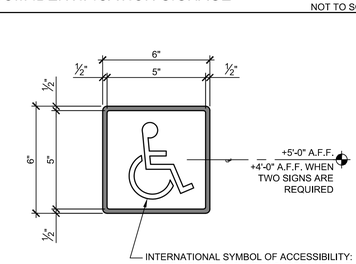
DOOR MOUNTED RESTROOM SYMBOLS-UNISEX — NOT TO SCALE — 8

NOTE:
* (SIGN....)



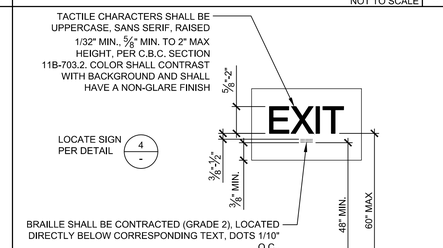
NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH DOOR MATERIAL.
2. LOCATE PER DETAIL 4/-
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. GEOMETRIC SYMBOLS SHALL COMPLY WITH 11B-703.7.2.6
5. UNISEX DOOR SYMBOL SHALL BE PROVIDED WITHOUT TEXT, BRAILLE OR THE USE OF A PICTOGRAM PER DSA BU 17-01

INT'L SYMBOL OF ACCESSIBILITY — NOT TO SCALE — 9



NOTES:
1. PROVIDE MECHANICAL MOUNTING w/VANDAL RESISTANT FASTENERS. PROVIDE ADHESIVE MOUNTING SYSTEM WHEN ATTACHED TO GLAZING.
2. SYMBOL PER C.B.C. SECTION 11B-703.7.2.1
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

TACTILE SIGNAGE REQUIREMENTS — NOT TO SCALE — 10



NOTE:
1. PER 11B-216, NEW OR ALTERED SIGNAGE SHALL COMPLY WITH C.B.C. SECTION 11B-703.
2. FOR REQUIRED TACTILE AND NON-TACTILE SIGNS LOCATIONS, SEE SHEET N2.0, ACCESSIBILITY STANDARDS, "SECTION 11B-216".
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. ATTACH SIGNS USING ADHESIVE OR MIN (2) TWO FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.

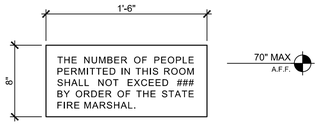
OCCUPANT LOAD SIGN — NOT TO SCALE — 11

A. TYPESTYLE: 1" HIGH BLOCK 1/16" THICK ENGRAVED PLASTIC.

B. MOUNTING: (4) #8x1" SCREWS OR SELF-ADHESIVE. HEIGHT AS SHOWN.

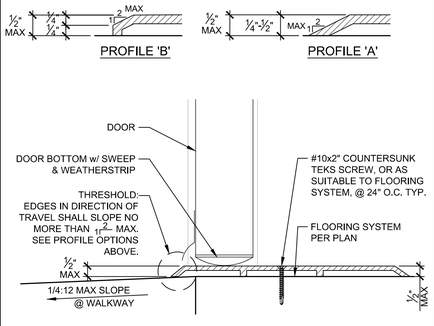
C. CAPACITY POSTING PER C.B.C. SECTION 1004.9 TITLE 19 C.C.R., SECTION 3.30: "THIS ROOM SHALL BE POSTED WITH A DURABLE SIGN NEAR THE MAIN EXIT FROM THE ROOM".

D. THE SIGN SHALL BE WORDED AS FOLLOWS, WITH THE APPROPRIATE CAPACITY NUMBER LISTED:

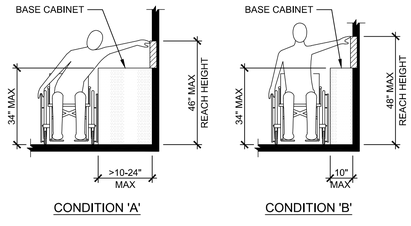


NOTES:
1. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
2. 11B-216.3 SIGNS THAT PROVIDE INFORMATION ABOUT INTERIOR SPACES SHALL COMPLY WITH SECTION 11B-703.5

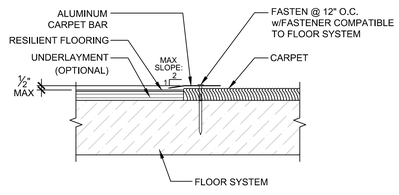
THRESHOLD @ EXTERIOR DOOR — NOT TO SCALE — 12



SIDE REACH AT BASE CABINET — NOT TO SCALE — 13



FLOORING TRANSITION DETAIL — NOT TO SCALE — 14



EGRESS SIGNAGE — NOT TO SCALE — 15

EGRESS SIGNAGE IS REQUIRED:
- TO PROVIDE DIRECTIONS TO AN EXIT (PER C.B.C. 1009.10)
- AT EXIT WAYS (PER C.B.C. 1013.4)
  1. AT EACH GRADE LEVEL EXTERIOR EXIT DOOR
  2. AT AN EXIT BY MEANS OF A RAMP ("EXIT RAMP DOWN")
  3. AT AN EXIT ROUTE VIA ENCLOSURE, PASSAGEWAY, CORRIDOR, HALLWAY, ETC.
  4. OTHER HORIZONTAL WAYS WHERE THE EXIT OR EXIT PATH IS NOT IMMEDIATELY VISIBLE (PER C.B.C. 1013.1)

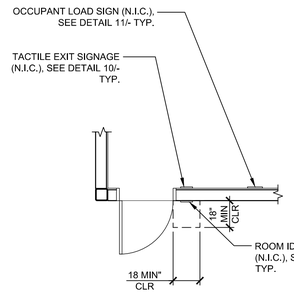
SIGNAGE PER C.B.C. SECTION 11B-216. (ALSO REFER TO SECTIONS 11B-703, 1009.9, 1009.10, 1023.9)

SIGN REQUIREMENTS PER DETAIL 10 - & 16 -

A. EXIT
B. NOT USED.
C. EXIT RAMP DOWN
D. EXIT ROUTE
E. TO EXIT

NOTE:
1. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.

TYPICAL CLASSROOM SIGNAGE LOCATION — NOT TO SCALE — 16

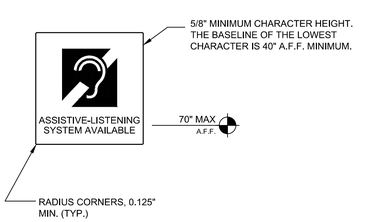


NOTE:

18" MIN CLEAR FLOOR SPACE SHALL BE CENTERED ON THE TACTILE CHARACTERS OF THE SIGN PER 11B-703.4.2

ASSISTIVE LISTENING SIGN — NOT TO SCALE — 17

NOTE:
* (SIGN....)



NOTES:
1. ATTACH SIGNS USING ADHESIVE AND (2) TW0 FLATHEAD COUNTERSUNK SCREWS, COMPATIBLE WITH WALL MATERIAL.
2. LOCATE AT OR NEAR THE ENTRANCE IN A PROMINENT PLACE. (11B-216.10)
3. SIGNS ARE NOT IN MODULAR MFR. SCOPE OF WORK.
4. SYMBOL PER CBC SECTION 11B-703.7.2.4
5. THE SIGN SHALL COMPLY WITH 11B-703.5 AND SIGN SHALL BE MOUNTED AT A HEIGHT COMPLYING WITH TABLE 11B-703.5.5.

NOT USED — 18

NOT USED — 19

SHEET NOTES

NOTES:
* (SIGN....) SHALL CONTRAST WITH BACKGROUND ON WHICH THE SIGN IS MOUNTED.

1. FOR ALL SIGNAGE ON THIS SHEET, CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH.

2. FOR ALL SIGNAGE ON THIS SHEET, CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND (11B-703.5.1)

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)
2GO®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — ANDREW PATRICK KNIGHT — No. C12631 Ren. 8-31-23 — STATE OF CALIFORNIA

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

REVISIONS

DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

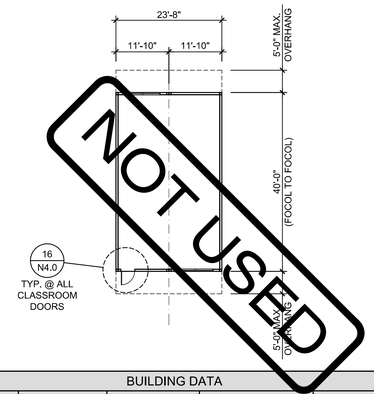
SHEET TITLE:

ACCESSIBILITY STANDARDS AND DETAILS

SHEET NUMBER:

N4.0

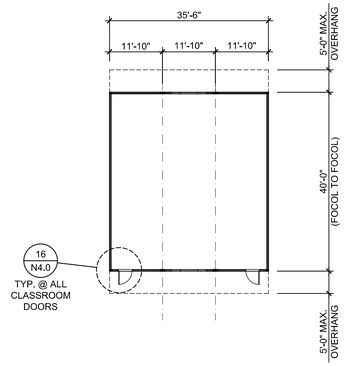
D:\XXXX_[A-H]-[SA/SB/SC/SD]\[A-SA-SB-SC-SD-25]\[25-SA-SB-SC-SD-ARCHITECTURE-SHEETS].TM 7/9/2021 8:58:55 AM PDT



BUILDING DATA					
BUILDING SIZE	OVERALL SIZE[1]	SQUARE FOOTAGE PER FLOOR*	SQ.FT. ALLOWED PER FLOOR	MAXIMUM OCCUPANT LOAD (LOAD FACTOR: 20)	EGRESS INCHES REQUIRED (0.2 PER OCCUPANT)
24' x 40'	23'-8"	947	9500***	47	9.4**

*THE BUILDING SQUARE FOOTAGE IS SUBJECT TO INCREASE AS PERMITTED BY C.B.C. SECTION 506.2 AND 506.3. SEE SHEET NOTE 2.
**MINIMUM EGRESS WIDTH SHALL BE 34" , OR DIMENSION GIVEN IN BUILDING DATA, WHICHEVER IS GREATER.
***THIS APPLIES TO E OCCUPANCY, NEED TO CHECK FOR A & B OCCUPANCY.

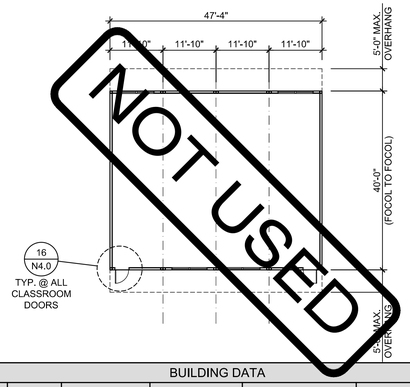
24' x 40' BUILDING FLOOR PLAN SCALE: 1/16" = 1'-0" 1



BUILDING DATA					
BUILDING SIZE	OVERALL SIZE[1]	SQUARE FOOTAGE PER FLOOR*	SQ.FT. ALLOWED PER FLOOR	MAXIMUM OCCUPANT LOAD (LOAD FACTOR: 20)	EGRESS INCHES REQUIRED (0.2 PER OCCUPANT)
36' x 40'	35'-6"	1420	9500***	71	14.2**

*THE BUILDING SQUARE FOOTAGE IS SUBJECT TO INCREASE AS PERMITTED BY C.B.C. SECTION 506.2 AND 506.3. SEE SHEET NOTE 2.
**MINIMUM EGRESS WIDTH SHALL BE 34" , OR DIMENSION GIVEN IN BUILDING DATA, WHICHEVER IS GREATER.
***THIS APPLIES TO E OCCUPANCY, NEED TO CHECK FOR A & B OCCUPANCY.

36' x 40' BUILDING FLOOR PLAN SCALE: 1/16" = 1'-0" 2



BUILDING DATA					
BUILDING SIZE	OVERALL SIZE[1]	SQUARE FOOTAGE PER FLOOR*	SQ.FT. ALLOWED PER FLOOR	MAXIMUM OCCUPANT LOAD (LOAD FACTOR: 20)	EGRESS INCHES REQUIRED (0.2 PER OCCUPANT)
48' x 40'	47'-4"	1893	9500***	95	19.0**

*THE BUILDING SQUARE FOOTAGE IS SUBJECT TO INCREASE AS PERMITTED BY C.B.C. SECTION 506.2 AND 506.3. SEE SHEET NOTE 2.
**MINIMUM EGRESS WIDTH SHALL BE 34" , OR DIMENSION GIVEN IN BUILDING DATA, WHICHEVER IS GREATER.
***THIS APPLIES TO E OCCUPANCY, NEED TO CHECK FOR A & B OCCUPANCY.

48' x 40' BUILDING FLOOR PLAN SCALE: 1/16" = 1'-0" 3

NOT USED 4

NOT USED 5

NOT USED 6

1. PANIC HARDWARE IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER, PER CBC 1010.1.10.
2. THE BUILDING SIZES AND SQUARE FOOTAGES REFLECTED ON THIS SHEET ARE SUBJECT TO SQUARE FOOTAGE INCREASE AS PERMITTED BY SITE CONDITIONS, PER CBC 506.2, AND BY AUTOMATIC SPRINKLER SYSTEM, PER CBC 506.3.
3. RESTROOM CONFIGURATIONS OCCUR AT OUTER WINGS OF BUILDINGS.
4. SEE FOUNDATION DRAWINGS FOR TRUE DIMENSIONS AT FLOOR PLACEMENT AND OVERALL FOUNDATION SIZE.
5. FOR ROOM ID SIGNAGE (N.I.C.) SEE DETAIL 5/N4.0. TYPICAL FOR ALL BUILDING CONFIGURATIONS.
6. MINIMUM EGRESS REQUIRED SHALL BE 34" PER CLASSROOM OR DIMENSION SPECIFIED IN BUILDING DATA, WHICHEVER IS GREATER.
7. BUILDING DATA REPORTED ON THIS SHEET IS INTENDED FOR OCCUPANT LOAD AND EGRESS. TOTAL BUILDING SQUARE FOOTAGE WHICH INCLUDES AREA FROM SITE SPECIFIC OVERHANGS OR PROJECTIONS IN NOT INCLUDED.
8. THE CONFIGURATIONS SHOWN ARE NOT OVERALL BUILDING FOOTPRINTS. INTERIOR WALLS/PARTITIONS (IF APPLICABLE) ARE NOT SHOWN FOR CLARITY.

SITE NOTE:

3/16:12 (1%) MINIMUM TO 1/4:12 (2%) MAXIMUM GRADE FROM FACE OF BUILDING MUST BE ADHERED TO FOR WATER RUN-OFF. PONDING MAY OCCUR AROUND THE PERIMETER OF THE BUILDING.

GENERAL NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
ANDREW PATRICK DEVANEY
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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

REVISIONS

DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

SHEET TITLE:

MULTIPLE FLOOR PLAN CONFIGURATIONS

SHEET NUMBER:

N5.0

DSA IR N-1

PRE-CHECK DESIGNS CALGREEN/ENERGY CODE COMPLIANCE REVIEW

Attachment 1
AMS PC 24x40 PC

Performance Runs and Orientation Table

PC Design Review Information			Title 24-19, Part 6, Energy Code
Date of Title 24 Report:	3/30/2021	DSA Application:	
Model Name and Option:	AMS PC 24x40	DSA File No:	
Total Floor Area:	1,440 sf	DSA-1 Submittal Date:	
HVAC System Type:	VSHP		

Climate Zone (Reference City)	Azimuth (Front Orientation)	TDV - Proposed Design	TDV - Standard Design	Compliance Margin
14 (Palmdale)	30	298.8	416.4	117.6
	75	304.2	429.5	125.3
	120	308.4	437.2	128.8
	165	305.4	426.6	121.2
	210	310.4	430.9	120.5
	255	306.6	422.9	116.4
	300	301.6	417.3	115.7
	345	291.4	389.3	97.9
15 (Palm Springs-Intl)	30	341.4	478.8	137.5
	75	350.2	443.8	93.6
	120	354.1	451.2	97.1
	165	347.8	440.7	92.8
	210	348.6	442.7	94.1
	255	344.9	436.8	91.9
	300	340.9	479.5	138.5
	345	332.2	465.9	133.7
16 (Blue Canyon)	30	317.8	393.1	75.3
	75	318.2	381.4	63.3
	120	320.0	372.8	52.7
	165	321.1	362.6	41.4
	210	325.7	379.7	54.0
	255	326.1	390.4	64.3
	300	324.6	401.3	76.8
	345	317.9	381.2	63.3

Comments to DSA: (Explain why this Model Name and Option generates the smallest compliance margins)

Windows increases heating or cooling load due to orientaton

DSA IR N-1

PRE-CHECK DESIGNS CALGREEN/ENERGY CODE COMPLIANCE REVIEW

Attachment 1
AMS PC 36x40 PC

Performance Runs and Orientation Table

PC Design Review Information			Title 24-19, Part 6, Energy Code
Date of Title 24 Report:	3/30/2021	DSA Application:	
Model Name and Option:	AMS PC 36x40	DSA File No:	
Total Floor Area:	960 sf	DSA-1 Submittal Date:	
HVAC System Type:	VSHP		

Climate Zone (Reference City)	Azimuth (Front Orientation)	TDV - Proposed Design	TDV - Standard Design	Compliance Margin
14 (Palmdale)	30	268.3	334.5	66.2
	75	273.4	277.2	3.7
	120	269.0	272.6	3.6
	165	260.0	317.5	57.6
	210	269.6	334.3	64.8
	255	276.5	278.4	1.8
	300	271.7	273.9	2.3
	345	260.8	318.2	57.5
15 (Palm Springs-Intl)	30	300.8	380.0	79.2
	75	310.0	393.0	83.0
	120	307.4	325.3	17.9
	165	294.2	362.2	68.0
	210	303.3	379.4	76.0
	255	314.0	392.6	78.6
	300	309.4	326.6	17.2
	345	294.5	362.7	68.2
16 (Blue Canyon)	30	288.5	300.9	12.3
	75	290.6	305.7	15.1
	120	289.2	301.0	11.7
	165	284.8	322.3	37.5
	210	287.2	299.4	12.2
	255	290.6	303.6	13.0
	300	290.6	300.9	10.3
	345	288.8	322.8	34.1

Comments to DSA: (Explain why this Model Name and Option generates the smallest compliance margins)

Windows increases heating or cooling load due to orientaton

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E:	Page 1 of 13:
Project Address:	Palmdale 93510	Calculation Date/Time:	22:31, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ14[8].cibd19		

A. GENERAL INFORMATION

1	Project Location (city)	Palmdale	8	Standards Version	Compliance2019
2	CA Zip Code	93510	9	Compliance Software (version)	CBECC-Com 2019.1.3
3	Climate Zone	14	10	Weather File	PALMDALE_723820_CZ2010.epw
4	Total Conditioned Floor Area in Scope	960 ft²	11	Building Orientation (deg);	(N) 345 deg;
5	Total Unconditioned Floor Area	0 ft²	12	Permitted Scope of Work	NewComplete
6	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential;
7	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. PROJECT SUMMARY

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

Building Components Complying via Performance				Building Components Complying Prescriptively		
Envelope (see Table G)	☒ Performance	Covered Process: Commercial Kitchens	☐ Performance	*The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e., compliance will not be shown on the NRCC-PRF-E):*		
	☐ Not Included		☒ Not Included			
Mechanical (see Table H)	☒ Performance	Covered Process: Computer Rooms	☐ Performance	Indoor Lighting (Unconditioned)§140.6	NRCC-LTI-E	
	☐ Not Included		☒ Not Included	Outdoor Lighting §140.7	NRCC-LTO-E	
Domestic Hot Water (see Table I)	☐ Performance	Covered Process: Laboratory Exhaust	☐ Performance	Sign Lighting §140.8	NRCC-LTS-E	
	☒ Not Included		☒ Not Included	Mandatory Measures		
Lighting (Indoor Conditioned, see Table K)	☒ Performance			*Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.):*		
	☐ Not Included			Electrical Power Distribution §110.11	NRCC-ELC-E	
Solar Thermal Water Heating (see Table I)	☐ Performance			Commissioning §120.8	NRCC-CXR-E	
	☒ Not Included			Solar Ready §110.10	NRCC-SRA-E	

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E:	Page 2 of 13:
Project Address:	Palmdale 93510	Calculation Date/Time:	22:31, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ14[8].cibd19		

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

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	31.32	74.79	-43.42
Space Cooling	134.65	147.47	-12.82
Indoor Fans	173.68	31.36	142.32
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	24.10	24.10	--
Indoor Lighting	25.72	13.88	11.84
ENERGY STANDARDS COMPLIANCE TOTAL	**389.32**	**291.40**	**97.92 (25.2%)**

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

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

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

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[2]
Receptacle	76.26	76.26	--
Process	--	--	--
Other Ltg	--	--	--
Process Motors	--	--	--
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**465.58**	**367.66**	**97.9 (21.0%)**

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

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E:	Page 3 of 13:
Project Address:	Palmdale 93510	Calculation Date/Time:	22:31, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ14[8].cibd19		

C3. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	--	2.9	--	14.8	--	--
Space Cooling	3.2	3.4	-0.2	--	--	--
Indoor Fans	5.7	1.0	4.7	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	--	--	--	12.8	12.8	0.0
Indoor Lighting	0.8	0.4	0.4	--	--	--
Compliance Total	**9.7**	**7.7**	**2.0**	**27.6**	**12.8**	**14.8**
Receptacle	2.5	2.5	0.0	--	--	--
Process	--	--	--	--	--	--
Other Ltg	--	--	--	--	--	--
Process Motors	--	--	--	--	--	--
TOTAL	**12.2**	**10.2**	**2.0**	**27.6**	**12.8**	**14.8**

D. EXCEPTIONAL CONDITIONS

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

The user model includes space(s) that are designed to be served by mechanical cooling systems, but the cooling systems were not included in the simulation model. A cooling system has been modeled for both the proposed and standard cases.

The user model includes space(s) without sufficient cooling equipment. Cooling equipment has been added to the model to meet cooling loads.

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

Roof: the roof U-value has been calculated using EZFrame per CEC guidance; U-value = 0.070

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E:	Page 4 of 13:
Project Address:	Palmdale 93510	Calculation Date/Time:	22:31, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ14[8].cibd19		

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

Opaque Surfaces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Area (ft²)	Window to Wall Ratio (%)
North-Facing[1]	240 ft²	80 ft²	33.3%
East-Facing[2]	400 ft²	80 ft²	20.0%
South-Facing[3]	240 ft²	80 ft²	33.3%
West-Facing[4]	400 ft²	0 ft²	00.0%
Total	1,280 ft²	240 ft²	18.7%
Roof	960 ft²	0 ft²	00.0%

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

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

Surface Name	Surface Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value	Units	Value	Description of Assembly Layers	Status[1]
Floor over Crawlspace	ExteriorFloor	960	Metal	19	NA	U-Factor	0.068	Air - Floor - 3 1/2 in. Metal framed floor, 24in. OC, 7.25in. R-19 Plywood - 5/8 in. Carpet - 3/4 in.	N
Roof: U=0.70 per EZFrame	Roof	960	Metal	19	2.	U-Factor	0.071.	Metal Standing Seam - 1/16 in. Expanded Polystyrene - EPS - 1/2 in. R2.1 Metal framed roof, 24in. OC, 5.5in. R-19 Acoustic Tile - 3/8 in.	N

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E:	Page 5 of 13:
Project Address:	Palmdale 93510	Calculation Date/Time:	22:31, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ14[8].cibd19		

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

Surface Name	Surface Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value	Units	Value	Description of Assembly Layers	Status[1]
Ext Wall	ExteriorWall	1280	Wood	13	NA	U-Factor	0.093	Wood siding - 1/2 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 9 Sin. R-13 Gypsum Board - 1/2 in. Slate or tile - 1/2 in.	N

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

G4. OPAQUE DOOR SUMMARY

Assembly Name	Overall U-factor	Status[1]
Door	0.700	N

G5. FENESTRATION ASSEMBLY SUMMARY

Fenestration Assembly Name / Tag or I.D.	Fenestration Type / Product Type / Frame Type	Certification Method[1]	Assembly Method	Area ft²	Overall U-factor	Overall SHGC	Overall VT	Status[2]
Windows	VerticalPenestration FixedWindow N/A	NFRC Rated	Manufactured	240	0.78.	0.43	0.37	N.

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

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E:	Page 6 of 13:
Project Address:	Palmdale 93510	Calculation Date/Time:	22:31, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ14[8].cibd19		

H. HVAC SYSTEM SUMMARY

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

Dry System Equipment ² (Fan & Economizer info included below in Table h)

Equipment Name	Equipment Type	Qty	Heating			Cooling			Status[1]
			CFM	Total Heating Output (kBtu/h)	Supp Heat Output (kBtuh)	Efficiency	Total Cooling Output (kBtu/h)	Efficiency	
FC-1	SPVHP (Packaged1Phase)	1	39		Yes	13	COP-3.30	41	EER-11.00	N

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

H2. FAN SYSTEMS SUMMARY[1]

Name or Item Tag	System Type	Design OA	Supply Fan				Return Fan			Economizer Type (if present)	Status[2]
	packaged, DOAS, etc.	CFM	CFM	BHP	Watts	Control	CFM	BHP	Watts	Control	
FC-1	SPVHP	365	1200	0.233	189.7	ConstantVolume	NA	NA	NA	NA	NoEconomizer	N

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

H3. EXHAUST FAN SUMMARY

This Section Does Not Apply

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

This Section Does Not Apply

H5. SYSTEM SPECIAL FEATURES

System Name	Optimum Start	Window Interlocks per §140.4(n)	Evaporative Cooling	Heat Recovery	Other Controls
FC-1	No Optimum Start	No	No Evaporative Cooler	No Heat Recovery	No DCV Controls, No DDC No Economizer No Supply Air Temp. Control

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E:	Page 7 of 13:
Project Address:	Palmdale 93510	Calculation Date/Time:	22:31, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ14[8].cibd19		

H5. SYSTEM SPECIAL FEATURES

System Name	Optimum Start	Window Interlocks per §140.4(n)	Evaporative Cooling	Heat Recovery	Other Controls

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

H6. MECHANICAL VENTILATION

Zone Name	Mechanical Ventilation							DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# hotel rooms	# of people	# of bedrooms	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	
Classroom 101_Zn	Education - Classrooms (ages 9-18)	0	24.00	0	365	0	960	NA

Multifamily or Hotel/Motel Occupancy? (If "Yes", see DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY)	No
Does the Project include Zonal Systems?	Yes

H7. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

System ID	Zone Name	System Type	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
			Heating	Cooling	Design	Min.	Min. Ratio	BHP	Watts	Cycles	ECM Motor
FC-1_TRM	Classroom 101_Zn	Uncontrolled	NA	NA	1200	NA	0.00	NA	NA	NA	☐

H8. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E:	Page 8 of 13:
Project Address:	Palmdale 93510	Calculation Date/Time:	22:31, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ14[8].cibd19		

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

Occupancy Type [1]	Conditioned Floor Area [2] (ft²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance	
				Area Category Footnotes (Watts)	Tailored Method (Watts)
Classroom, Lecture, Training, Vocational Areas	960	360	0	0	0
Building Totals:	**960**	**360**	**0**	**0**	**0**

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

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)

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 Wattage is Determined	Total Number Luminaires	Installed Watts
2x4 VTLED	2x4 - LED	45	According to §130.0(c)	8	360

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)

Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaires	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
Classroom 101	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00	2x4 VTLED	135.0	3	135	0

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E:	Page 9 of 13:
Project Address:	Palmdale 93510	Calculation Date/Time:	22:31, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ14[8].cibd19		

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)

Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaires	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
Classroom 101	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00	2x4 VTLED	90.0	2	90	0

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS

Building Level Controls

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

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

Area Description	Area Category Primary Function Area	Area Controls 130.1(a)	Multi-Level Controls 130.1(b)	Shut-Off Controls 130.1(c)	Primary Daylighting 130.1(d)	Secondary Daylighting 140.5(d)
Classrooms Daylit Zn	Classroom, Lecture, Training, Vocational Areas	Required	Required	Required	Required	Required
Classrooms Non-daylit Zn	Classroom, Lecture, Training, Vocational Areas	Required	Required	Required	NA	NA

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E:	Page 10 of 13:
Project Address:	Palmdale 93510	Calculation Date/Time:	22:31, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ14[8].cibd19		

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-01-E - Must be submitted for all buildings NRCI-LTI-02-E – Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS) to be recognized for compliance:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
BRIAN PATRICK CHANEY
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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

REVISIONS

1
2
3
4

DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

SHEET TITLE:

ENERGY CALCULATIONS

SHEET NUMBER:

EN.1

02-XXXX-2pv4ofvdrfdbdfvdfv-0fv-fdb-02122153 2:PM PM 2/12/2021 8:56:58 PM File:\\Desktop\AMS\Projects\Palmdale\02122153\Building\Energy\02122153.pln

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E	Page 11 of 13
Project Address:	Palmdale 93510	Calculation Date/Time:	22:31, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ143[6].cibd19		

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls
	NRCA-LTI-03-A - Automatic Daylight Controls
Mechanical	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units; Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
	NRCA-MCH-03-A Constant Volume Single Zone HVAC
	NRCA-MCH-19 Occupancy Sensor Controls

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E	Page 12 of 13
Project Address:	Palmdale 93510	Calculation Date/Time:	22:31, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ143[6].cibd19		

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Table Instructions: Selections shall be made by Documentation Author to 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 at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/

Building Component	Form/Title
Mechanical	NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E	Page 13 of 13
Project Address:	Palmdale 93510	Calculation Date/Time:	22:31, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ143[6].cibd19		

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Hans Marsman, CEA, LEED AP BD+C		
Company: Marsman Consulting	Signature:	Digitally signed by Hans Marsman - LEED AP, CEA Date: 2021.04.07 08:14:23 -07'00'
Address: 1150 J Street #409	Signature Date: 2021-03-29	
City/State/Zip: San Diego CA 92101	CEA/ HERS Certification Identification (if applicable):	
Phone: (619) 573-6374		

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Envelope Designer Name: Randall P Cavannagh	Signature:	Randall Cavannagh
Company: American Modular Systems	Gen7 Schools	Date Signed: 04-08-21
Address: 787 Sprecklels Avenue		
City/State/Zip: Manteca CA 95336	Title: Architect	License #: C12631
Phone: 209.825.1921		
Responsible Lighting Designer Name: Randall P Cavannagh	Signature:	Randall Cavannagh
Company: American Modular Systems	Gen7 Schools	Date Signed: 04-08-21
Address: 787 Sprecklels Avenue		
City/State/Zip: Manteca CA 95336	Title: Architect	License #: C12631
Phone: 209.825.1921		
Responsible Mechanical Designer Name: Randall P Cavannagh	Signature:	Randall Cavannagh
Company: American Modular Systems	Gen7 Schools	Date Signed: 04-08-21
Address: 787 Sprecklels Avenue		
City/State/Zip: Manteca CA 95336	Title: Architect	License #: C12631
Phone: 209.825.1921		

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E	Page 1 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	22:33, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ150[6].cibd19		

A. GENERAL INFORMATION

1	Project Location (city)	Palm Springs-Intl	8	Standards Version	Compliance2019
2	CA Zip Code	92240	9	Compliance Software (version)	CBECC-Com 2019.1.3
3	Climate Zone	15	10	Weather File	PALM-SPRINGS-INTL_722868_CZ2010.epw
4	Total Conditioned Floor Area in Scope	960 ft²	11	Building Orientation (deg)	(W) 255 deg
5	Total Unconditioned Floor Area	0 ft²	12	Permitted Scope of Work	NewComplete
6	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. PROJECT SUMMARY

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

Building Components Complying via Performance				Building Components Complying Prescriptively	
Envelope (see Table G)	☒ Performance ☐ Not Included	Covered Process: Commercial Kitchens	☐ Performance ☒ Not Included	*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):*	
Mechanical (see Table H)	☒ Performance ☐ Not Included	Covered Process: Computer Rooms	☐ Performance ☒ Not Included	Indoor Lighting (Unconditioned)§140.6	NRCC-LTI-E
				Outdoor Lighting §140.7	NRCC-LTO-E
Domestic Hot Water (see Table I)	☐ Performance ☒ Not Included	Covered Process: Laboratory Exhaust	☐ Performance ☒ Not Included	Sign Lighting §140.8	NRCC-LTS-E
				Mandatory Measures	
Lighting (Indoor Conditioned, see Table K)	☒ Performance ☐ Not Included			*Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E).*	
				Electrical Power Distribution §110.11	NRCC-ELC-E
				Commissioning §120.8	NRCC-CXR-E
Solar Thermal Water Heating (see Table I)	☐ Performance ☒ Not Included			Solar Ready §110.10	NRCC-SRA-E

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E	Page 2 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	22:33, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ150[6].cibd19		

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

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	4.89	22.92	-18.03
Space Cooling	198.53	259.13	-60.60
Indoor Fans	186.24	27.38	158.86
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	22.08	22.08	--
Indoor Lighting	25.08	13.42	11.66
ENERGY STANDARDS COMPLIANCE TOTAL	**436.82**	**344.93**	**91.89 (21.0%)**

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

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

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

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[2]
Receptacle	75.63	75.63	--
Process	--	--	--
Other Ltg	--	--	--
Process Motors	--	--	--
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**512.45**	**420.56**	**91.9 (17.9%)**

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

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E	Page 3 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	22:33, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ150[6].cibd19		

C3. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	--	0.9	--	2.3	2.3	--
Space Cooling	5.1	6.4	-1.3	--	--	--
Indoor Fans	6.0	0.9	5.1	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	--	--	--	11.7	11.7	0.0
Indoor Lighting	0.8	0.4	0.4	--	--	--
Compliance Total	**11.9**	**8.6**	**3.3**	**14.0**	**11.7**	**2.3**
Receptacle	2.5	2.5	0.0	--	--	--
Process	--	--	--	--	--	--
Other Ltg	--	--	--	--	--	--
Process Motors	--	--	--	--	--	--
TOTAL	**14.4**	**11.1**	**3.3**	**14.0**	**11.7**	**2.3**

D. EXCEPTIONAL CONDITIONS

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

The user model includes space(s) that are designed to be served by mechanical cooling systems, but the cooling systems were not included in the simulation model. A cooling system has been modeled for both the proposed and standard cases.

The user model includes space(s) without sufficient cooling equipment. Cooling equipment has been added to the model to meet cooling loads.

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

Roof: the roof U-value has been calculated using EZFrame per CEC guidance; U-value = 0.070

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E	Page 4 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	22:33, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ150[6].cibd19		

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

1 Opaque Surfaces & Orientation	2 Total Gross Surface Area (ft²)	3 Total Fenestration Area (ft²)	4 Window to Wall Ratio (%)
North-Facing[1]	400 ft²	80 ft²	20.0%
East-Facing[2]	240 ft²	80 ft²	33.3%
South-Facing[3]	400 ft²	0 ft²	00.0%
West-Facing[4]	240 ft²	80 ft²	33.3%
Total	1,280 ft²	240 ft²	18.7%
Roof	960 ft²	0 ft²	00.0%

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

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1 Surface Name	2 Surface Type	3 Area (ft²)	4 Framing Type	5 Cavity R-Value	6 Continuous R-Value	7 Units	8 U-Value	9 Description of Assembly Layers	10 Status[1]
Floor over Crawlspace	ExteriorFloor	960	Metal	19	NA	U-Factor	0.068	Air - Floor ; 3 1/2 in. ; Metal framed floor; 24in. OC, 7.25in.; R-19 ; Plywood ; 5/8 in. ; Carpet ; 3/4 in.	N
Roof: U=0.70 per EZFrame	Roof	960	Metal	19	2	U-Factor	0.071	Metal Standing Seam ; 1/16 in. ; Expanded Polystyrene - EPS ; 1/2 in. ; R2.1 ; Metal framed roof; 24in. OC, 5.5in.; R-19 ; Acoustic Tile ; 3/8 in.	N

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E	Page 1 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	22:33, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ150[6].cibd19		

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1 Surface Name	2 Surface Type	3 Area (ft²)	4 Framing Type	5 Cavity R-Value	6 Continuous R-Value	7 Units	8 U-Value	9 Description of Assembly Layers	10 Status[1]
Ext Wall	ExteriorWall	1280	Wood	13	NA	U-Factor	0.093	Wood siding - 1/2 in. ; Vapor permeable felt - 1/8 in. ; Wood framed wall; 16in. OC, 3.5in., R-13 ; Gypsum Board ; 1/2 in. ; State or tile - 1/2 in. ;	N

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

G4. OPAQUE DOOR SUMMARY

1 Assembly Name	2 Overall U-factor	3 Status[1]
Door	0.700	N

G5. FENESTRATION ASSEMBLY SUMMARY

1 Fenestration Assembly Name / Tag or I.D.	2 Fenestration Type / Product Type / Frame Type	3 Certification Method[2]	4 Assembly Method	5 Area ft²	6 Overall U-Factor	7 Overall SHGC	8 Overall VT	9 Status[1]
Windows	VerticalFenestration Fixed/Window N/A	NFRC Rated	Manufactured	240	0.78	0.43	0.37	N

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

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E	Page 6 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	22:33, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ150[6].cibd19		

H. HVAC SYSTEM SUMMARY

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

Dry System Equipment [1] (Fan & Economizer info included below in Table NI)

1 Equipment Name	2 Equipment Type	3 Qty	4 Heating Total Heating Output (kBtu/h)	5 Heating Supp Heat Source (Y/N)	6 Heating Supp Heat Output (kBtuh)	7 Heating Efficiency	8 Cooling Total Cooling Output (kBtu/h)	9 Cooling Efficiency	10 Status[2]
FC-1	SPVHP (Packaged1Phase)	1	39	Yes	13	COP-3.30	41	EER-11.00	N

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

H2. FAN SYSTEMS SUMMARY[1]

1 Name or Item Tag	2 System Type packaged, DOAS, etc.	3 Design OA	4 Supply Fan	5 Supply Fan	6 Supply Fan	7 Supply Fan	8 Return Fan	9 Return Fan	10 Return Fan	11 Return Fan	12 Economizer Type (if present)	13 Status[2]
			CFM	BHP	Watts	Control	CFM	BHP	Watts	Control		
FC-1	SPVHP	365	1200	0.233	189.7	ConstantVolume	NA	NA	NA	NA	NoEconomizer	N

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

H3. EXHAUST FAN SUMMARY

This Section Does Not Apply

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

This Section Does Not Apply

H5. SYSTEM SPECIAL FEATURES

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

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E	Page 7 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	22:33, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ150[6].cibd19		

H5. SYSTEM SPECIAL FEATURES

1 System Name	2 Optimum Start	3 Window Interlocks per §140.4(n)	4 Evaporative Cooling	5 Heat Recovery	6 Other Controls

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

H6. MECHANICAL VENTILATION

1 Zone Name	2 Mechanical Ventilation Ventilation Function	3 Mechanical Ventilation # hotel rooms	4 Mechanical Ventilation # of people	5 Mechanical Ventilation # of bedrooms	6 Mechanical Ventilation Supply OA CFM	7 Mechanical Ventilation Exhaust CFM	8 Mechanical Ventilation Conditioned Area (sf)	9 DCV or Occupant Sensor Controls, or Both
Classroom 101_Zn	Education - Classrooms (ages 9-18)	0	24.00	0	365	0	960	NA

Multifamily or Hotel/Motel Occupancy? (If "Yes", see DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY)	No
Does the Project include Zonal Systems?	Yes

H7. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1 System ID	2 Zone Name	3 System Type	4 Rated Capacity (kBtuh) Heating	5 Rated Capacity (kBtuh) Cooling	6 Airflow (cfm) Design	7 Airflow (cfm) Min.	8 Fan Min. Ratio	9 Fan BHP	10 Fan Watts	11 Fan Cycles	12 Fan ECM Motor
FC-1_TRM	Classroom 101_Zn	Uncontrolled	NA	NA	1200	NA	0.00	NA	NA	NA	☐

H8. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E	Page 8 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	22:33, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ150[6].cibd19		

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

1 Occupancy Type [1]	2 Conditioned Floor Area [2] (ft²)	3 Installed Lighting Power (Watts)	4 Lighting Control Credits (Watts)	5 Additional (Custom) Allowance: Area Category Footnotes (Watts)	6 Additional (Custom) Allowance: Tailored Method (Watts)
Classroom, Lecture, Training, Vocational Areas	960	360	0	0	0
Building Totals:	**960**	**360**	**0**	**0**	**0**

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

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)

Installed Watts (Conditioned)					
1 Name or Item Tag	2 Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	3 Watts per luminaire	4 How Wattage is Determined	5 Total Number of Luminaires	6 Installed Watts
2x4 VTLED	2x4 - LED	45	According to §130.0(c)	8	360

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

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

1 Area Description	2 Primary Function Area (must meet requirements of Table 140.6-A)	3 Type of Lighting Control	4 Power Adjustment Factor (PAF)	5 Luminaire Name or Item Tag	6 Watts per Luminaires	7 # of Luminaires	8 Lighting Controlled (Watts)	9 Control Credit (Watts)
Classroom 101	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00	2x4 VTLED	135.0	3	135	0

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E	Page 9 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	22:33, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ150[6].cibd19		

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

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

1 Area Description	2 Primary Function Area (must meet requirements of Table 140.6-A)	3 Type of Lighting Control	4 Power Adjustment Factor (PAF)	5 Luminaire Name or Item Tag	6 Watts per Luminaires	7 # of Luminaires	8 Lighting Controlled (Watts)	9 Control Credit (Watts)
Classroom 101	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00	2x4 VTLED	135.0	3	135	0

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS

Building Level Controls

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

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

4 Area Description	5 Area Category Primary Function Area	6 Area Controls §130.1(a)	7 Multi-Level Controls §130.1(b)	8 Shut-Off Controls §130.1(c)	9 Primary Daylighting §130.1(d)	10 Secondary Daylighting §140.5(d)
Classrooms Daylit Zn	Classroom, Lecture, Training, Vocational Areas	Required	Required	Required	Required	Required
Classrooms Non-daylit Zn	Classroom, Lecture, Training, Vocational Areas	Required	Required	Required	NA	NA

02-XXXXX - [pk=dcdfe7b0b2fc4c18b1d6fa5c0f2285f2&lc=EN-US&id=2285f2&cid=2285f2&ctx=PM-PU-2285f2&ts=636783614149178746&hash=TBC7hvqRwwwHQPVOFHBaFdWWSDSDSDBBaBHdHDSDSDS

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E	Page 10 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	22:33, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ15[6].cibd19		

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-01-E - Must be submitted for all buildings
	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS) to be recognized for compliance.

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E	Page 11 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	22:33, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ15[6].cibd19		

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls
	NRCA-LTI-03-A - Automatic Daylight Controls
Mechanical	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
	NRCA-MCH-03-A Constant Volume Single Zone HVAC
	NRCA-MCH-19 Occupancy Sensor Controls

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E	Page 12 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	22:33, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ15[6].cibd19		

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Table Instructions: Selections shall be made by Documentation Author to 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 at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/

Building Component	Form/Title
Mechanical	NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E	Page 13 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	22:33, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ15[6].cibd19		

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Hans Marsman, CEA, LEED AP BD+C		
Company: Marsman Consulting	Signature:	Digitally signed by Hans Marsman, LEED AP BD+C Date: 2021.04.07 08:13:58 -07'00'
Address: 1150 J Street #409	Signature Date: 2021-03-29	
City/State/Zip: San Diego CA 92101	CEA/ HERS Certification Identification (if applicable):	
Phone: (619) 573-6374		

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

Responsible Envelope Designer Name: Randall P Cavannagh	Signature:	Randall Cavannagh
Company: American Modular Systems | Gen7 Schools		
Address: 787 Spreckels Avenue	Date Signed:	04-08-21
City/State/Zip: Manteca CA 95336		
Phone: 209.825.1921	Title: Architect	License #: C12631,
Responsible Lighting Designer Name: Randall P Cavannagh	Signature:	Randall Cavannagh
Company: American Modular Systems | Gen7 Schools		
Address: 787 Spreckels Avenue	Date Signed:	04-08-21
City/State/Zip: Manteca CA 95336		
Phone: 209.825.1921	Title:	License #: C12631,
Responsible Mechanical Designer Name: Randall P Cavannagh	Signature:	Randall Cavannagh
Company: American Modular Systems | Gen7 Schools		
Address: 787 Spreckels Avenue	Date Signed:	04-08-21
City/State/Zip: Manteca CA 95336		
Phone: 209.825.1921	Title: Architect	License #: C12631,

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E	Page 1 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	22:35, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ16[4].cibd19		

A. GENERAL INFORMATION

1	Project Location (city)	Blue Canyon	8	Standards Version	Compliance2019
2	CA Zip Code	95715	9	Compliance Software (version)	CBECC-Com 2019.1.3
3	Climate Zone	16	10	Weather File	BLUE-CANYON_725845_CZ2010.epw
4	Total Conditioned Floor Area in Scope	960 ft²	11	Building Orientation (deg)	(S) 165 deg
5	Total Unconditioned Floor Area	0 ft²	12	Permitted Scope of Work	NewComplete
6	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. PROJECT SUMMARY

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

Building Components Complying via Performance				Building Components Complying Prescriptively		
Envelope (see Table G)	☒ Performance	Covered Process: Commercial Kitchens	☐ Performance	*The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e., compliance will not be shown on the NRCC-PRF-01).*	
	☐ Not Included		☒ Not Included		
Mechanical (see Table H)	☒ Performance	Covered Process: Computer Rooms	☐ Performance	Indoor Lighting (Unconditioned)§140.6	NRCC-LTI-E
	☐ Not Included		☒ Not Included	Outdoor Lighting §140.7	NRCC-LTO-E
Domestic Hot Water (see Table I)	☐ Performance	Covered Process: Laboratory Exhaust	☐ Performance	Sign Lighting §140.8	NRCC-LTS-E
	☒ Not Included		☒ Not Included	Mandatory Measures	
Lighting (Indoor Conditioned, see Table K)	☒ Performance			*Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (i.e.: compliance will not be shown on the NRCC-PRF-E.)*	
	☐ Not Included			Electrical Power Distribution §110.11	NRCC-ELC-E
Solar Thermal Water Heating (see Table I)	☐ Performance			Commissioning §120.8	NRCC-CXR-E
	☒ Not Included			Solar Ready §110.10	NRCC-SRA-E

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E	Page 2 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	22:35, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ16[4].cibd19		

C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft²-yr)

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	59.50	197.75	-138.25
Space Cooling	50.70	49.04	1.66
Indoor Fans	201.34	35.21	166.13
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	25.64	25.64	--
Indoor Lighting	25.38	13.49	11.89
ENERGY STANDARDS COMPLIANCE TOTAL	**362.56**	**321.13**	**41.43 (11.4%)**

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

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

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

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[2]
Receptacle	72.32	72.32	--
Process	--	--	--
Other Ltg	--	--	--
Process Motors	--	--	--
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**434.88**	**393.45**	**41.4 (9.5%)**

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

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E	Page 3 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	22:35, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ16[4].cibd19		

C3. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	--	6.2	--	29.0	--	--
Space Cooling	1.5	1.5	0.0	--	--	--
Indoor Fans	6.6	1.2	5.4	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	--	--	--	13.6	13.6	0.0
Indoor Lighting	0.8	0.4	0.4	--	--	--
Compliance Total	**8.9**	**9.3**	**-0.4**	**42.6**	**13.6**	**29.0**
Receptacle	2.5	2.5	0.0	--	--	--
Process	--	--	--	--	--	--
Other Ltg	--	--	--	--	--	--
Process Motors	--	--	--	--	--	--
TOTAL	**11.4**	**11.8**	**-0.4**	**42.6**	**13.6**	**29.0**

D. EXCEPTIONAL CONDITIONS

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

The user model includes space(s) that are designed to be served by mechanical cooling systems, but the cooling systems were not included in the simulation model. A cooling system has been modeled for both the proposed and standard cases.

The user model includes space(s) without sufficient cooling equipment. Cooling equipment has been added to the model to meet cooling loads.

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

Roof: the roof U-value has been calculated using EZFrame per CEC guidance; U-value = 0.070

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E	Page 4 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	22:35, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ16[4].cibd19		

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

1 Opaque Surfaces & Orientation	2 Total Gross Surface Area (ft²)	3 Total Fenestration Area (ft²)	4 Window to Wall Ratio (%)
North-Facing[2]	240 ft²	80 ft²	33.3%
East-Facing[2]	400 ft²	0 ft²	00.0%
South-Facing[2]	240 ft²	80 ft²	33.3%
West-Facing[2]	400 ft²	80 ft²	20.0%
Total	**1,280 ft²**	**240 ft²**	**18.7%**
Roof	960 ft²	0 ft²	00.0%

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

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1 Surface Name	2 Surface Type	3 Area (ft²)	4 Framing Type	5 Cavity R-Value	6 Continuous R-Value	7 Units	8 Value	9 Description of Assembly Layers	10 Status[1]
Floor over Crawlspace	ExteriorFloor	960	Metal	19	NA	U-Factor	0.068	Air - Floor-, 1 1/2 in. Metal framed floor, 24in. OC, 7.25in., R-19 Plywood - 5/8 in. Carpet - 3/4 in.	N
Roof: U=0.70 per EZFrame	Roof	960	Metal	19	2	U-Factor	0.073	Metal Standing Seam - 1/16 in. Expanded Polystyrene - EPS - 1/2 in., R2.1 Metal framed roof, 24in. OC, 5.5in., R-19 Acoustic Tile - 3/8 in.	N

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E	Page 5 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	22:35, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ16[4].cibd19		

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1 Surface Name	2 Surface Type	3 Area (ft²)	4 Framing Type	5 Cavity R-Value	6 Continuous R-Value	7 Units	8 Value	9 Description of Assembly Layers	10 Status[1]
Ext Wall	ExteriorWall	1280	Wood	13	NA	U-Factor	0.093	Wood siding - 1/2 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 3.5in., R-13 Gypsum Board - 1/2 in. Slate or tile - 1/2 in.	N

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

G4. OPAQUE DOOR SUMMARY

1 Assembly Name	2 Overall U-factor	3 Status[1]
Door	0.700	N

G5. FENESTRATION ASSEMBLY SUMMARY

1 Fenestration Assembly Name / Tag or I.D.	2 Fenestration Type / Product Type / Frame Type	3 Certification Method[1]	4 Assembly Method	5 Area ft²	6 Overall U-factor	7 Overall SHGC	8 Overall VT	9 Status[2]
Windows	VerticalFenestration FixedWindow N/A	NFRC Rated	Manufactured	240	0.78	0.43	0.37	N

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

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E	Page 6 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	22:35, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ16[4].cibd19		

H. HVAC SYSTEM SUMMARY

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

Dry System Equipment [1] (Fan & Economizer info included below in Table N)

1 Equipment Name	2 Equipment Type	3 Qty	4 Heating: Total Heating Output (kBtu/h)	5 Heating: Supp Heat Source (Y/N)	6 Heating: Supp Heat Output (kBtuh)	7 Heating: Efficiency	8 Cooling: Total Cooling Output (kBtu/h)	9 Cooling: Efficiency	10 Status[2]
FC-1	SPVHP (Packaged1Phase)	1	39	Yes	13	COP-3.30	41	EER-11.00	N

Status: N - New, A – Altered, E – Existing

H2. FAN SYSTEMS SUMMARY[1]

1 Name or Item Tag	2 System Type packaged, DOAS, etc.	3 Design OA	4 Supply Fan: CFM	5 Supply Fan: BHP	6 Supply Fan: Watts	7 Supply Fan: Control	8 Return Fan: CFM	9 Return Fan: BHP	10 Return Fan: Watts	11 Return Fan: Control	12 Economizer Type (if present)	13 Status[2]
FC-1	SPVHP	365	1200	0.233	189.7	ConstantVolume	NA	NA	NA	NA	NoEconomizer	N

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

H3. EXHAUST FAN SUMMARY

This Section Does Not Apply

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

This Section Does Not Apply

H5. SYSTEM SPECIAL FEATURES

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

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E	Page 7 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	22:35, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ16[4].cibd19		

H5. SYSTEM SPECIAL FEATURES

1 System Name	2 Optimum Start	3 Window Interlocks per §140.4(n)	4 Evaporative Cooling	5 Heat Recovery	6 Other Controls

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

H6. MECHANICAL VENTILATION

1	2	3	4	5	6	7	8	9
	Mechanical Ventilation							
Zone Name	Ventilation Function	# hotel rooms	# of people	# of bedrooms	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
Classroom 101_Zn	Education - Classrooms (ages 9-18)	0	24.00	0	365	0	960	NA

Multifamily or Hotel/Motel Occupancy? (If "Yes", see DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY)	No
Does the Project include Zonal Systems?	Yes

H7. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1 System ID	2 Zone Name	3 System Type	4 Rated Capacity (kBtuh): Heating	5 Rated Capacity (kBtuh): Cooling	6 Airflow (cfm): Design	7 Airflow (cfm): Min.	8 Airflow (cfm): Min. Ratio	9 Fan: BHP	10 Fan: Watts	11 Fan: Cycles	12 Fan: ECM Motor
FC-1_TRM	Classroom 101_Zn	Uncontrolled	NA	NA	1200	NA	0.00	NA	NA	NA	☐

H8. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E	Page 8 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	22:35, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ16[4].cibd19		

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

1 Occupancy Type [1]	2 Conditioned Floor Area [2] (ft²)	3 Installed Lighting Power (Watts)	4 Lighting Control Credits (Watts)	5 Additional (Custom) Allowance: Area Category Footnotes (Watts)	6 Additional (Custom) Allowance: Tailored Method (Watts)
Classroom, Lecture, Training, Vocational Areas	960	360	0	0	0
Building Totals:	**960**	**360**	**0**	**0**	**0**

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

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)

1 Name or Item Tag	2 Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Installed Watts (Conditioned): 3 Watts per luminaire	4 How Wattage is Determined	5 Total Number Luminaires	6 Installed Watts
2x4 VTLED	2x4 - LED	45	According to §130.0(c)	8	360

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

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

1 Area Description	2 Primary Function Area (must meet requirements of Table 140.6-A)	3 Type of Lighting Control	4 Power Adjustment Factor (PAF)	5 Luminaire Name or Item Tag	6 Watts per Luminaires	7 # of Luminaires	8 Lighting Controlled (Watts)	9 Control Credit (Watts)
Classroom 101	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00	2x4 VTLED	135.0	3	135	0

ID:XXXXX [pw=AMS-PASSWORD,ok=ALL-PERMISSIONS] 2019 PRO-TECT-ED BUILDING SYSTEMS Plot Date=Monday, March 29, 2021 10:35:27 PM

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
HANS MARSMAN
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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

REVISIONS

1
2
3
4

DRAWN BY: ADS/AH
SCALE: AS NOTED
DATE: 03/11/21
PROJECT NO: XXXX-21

SHEET TITLE:

ENERGY CALCULATIONS

SHEET NUMBER:

EN.3

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E	Page 9 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	22:35, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ16[4].cibd19		

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

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

1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts).	Control Credit (Watts)
Classroom 101	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00	2x4 VTLED	135.0	3	135	0
Classroom 101	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00	2x4 VTLED	90.0	2	90	0

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS

Building Level Controls

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

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

4	5	6	7	8	9	10
Area Description	**Area Category Primary Function Area**	**Area Controls §130.1(a)**	**Multi-Level Controls §130.1(b)**	**Shut-Off Controls §130.1(c)**	**Primary Daylighting §130.1(d)**	**Secondary Daylighting §140.5(d)**
Classrooms Daylit Zn Classrooms Non-daylit Zn	Classroom, Lecture, Training, Vocational Areas Classroom, Lecture, Training, Vocational Areas	Required Required	Required Required	Required Required	Required NA	Required NA

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E	Page 10 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	22:35, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ16[4].cibd19		

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-01-E - Must be submitted for all buildings NRCI-LTI-03-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS) to be recognized for compliance.

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E	Page 11 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	22:35, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ16[4].cibd19		

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls NRCA-LTI-03-A - Automatic Daylight Controls
Mechanical	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap NRCA-MCH-03-A Constant Volume Single Zone HVAC NRCA-MCH-19 Occupancy Sensor Controls

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E	Page 12 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	22:35, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ16[4].cibd19		

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Table Instructions: Selections shall be made by Documentation Author to 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 at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/

Building Component	Form/Title
Mechanical	NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation

Project Name:	AMS PC 24x40 2GO	NRCC-PRF-01-E	Page 13 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	22:35, Mon, Mar 29, 2021
Input File Name:	AMS 24x40 for DSA-CZ16[4].cibd19		

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Hans Marsman, CEA, LEED AP BD+C	
Company: Marsman Consulting	Signature:
Address: 1150 J Street #409	Signature Date: 2021-03-29
City/State/Zip: San Diego CA 92101	CEA/ HERS Certification Identification (if applicable):
Phone: (619) 573-6374	

Digitally signed by: Hans Marsman, LEED AP, CEA Date: 2021.04.07 08:33:37 -07'00'

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

Responsible Envelope Designer Name: Randall P Cavanaugh			
Company: American Modular Systems | Gen7 Schools	Signature:		
Address: 787 Spreckels Avenue	Date Signed: 04-08-21		
City/State/Zip: Manteca CA 95336			
Phone: 209.825.1921	Title: Architect	License #: C12631	
Responsible Lighting Designer Name: Randall P Cavanaugh			
Company: American Modular Systems | Gen7 Schools	Signature:		
Address: 787 Spreckels Avenue	Date Signed: 04-08-21		
City/State/Zip: Manteca CA 95336			
Phone: 209.825.1921	Title:	License #: C12631	
Responsible Mechanical Designer Name: Randall P Cavanaugh			
Company: American Modular Systems | Gen7 Schools	Signature:		
Address: 787 Spreckels Avenue	Date Signed: 04-08-21		
City/State/Zip: Manteca CA 95336			
Phone: 209.825.1921	Title: Architect	License #: C12631	

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 1 of 13
Project Address:	Palmdale 93510	Calculation Date/Time:	22:38, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-CZ14[6].cibd19		

A. GENERAL INFORMATION

1	Project Location (city)	Palmdale	8	Standards Version	Compliance2019
2	CA Zip Code	93510	9	Compliance Software (version)	CBECC-Com 2019.1.3.
3	Climate Zone	14	10	Weather File	PALMDALE_723820_CZ2010.epw
4	Total Conditioned Floor Area in Scope	1,440 ft²	11	Building Orientation (deg)	(W) 255 deg
5	Total Unconditioned Floor Area	0 ft²	12	Permitted Scope of Work	NewComplete
6	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7	Total # of dwelling units	0	14	Gas Type:	NaturalGas

B. PROJECT SUMMARY

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

Building Components Complying via Performance				Building Components Complying Prescriptively	
Envelope (see Table G)	☒ Performance ☐ Not Included	Covered Process: Commercial Kitchens	☐ Performance ☒ Not Included	*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).*	
Mechanical (see Table H)	☒ Performance ☐ Not Included	Covered Process: Computer Rooms	☐ Performance ☒ Not Included	Indoor Lighting (Unconditioned)§140.6	NRCC-LTI-E
	☐ Performance		☒ Not Included	Outdoor Lighting §140.7	NRCC-LTO-E
Domestic Hot Water (see Table I)	☐ Performance ☒ Not Included	Covered Process: Laboratory Exhaust	☐ Performance ☒ Not Included	Sign Lighting §140.8	NRCC-LTS-E
				Mandatory Measures	
Lighting (Indoor Conditioned, see Table K)	☒ Performance			*Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)*	
	☐ Not Included			Electrical Power Distribution §110.11	NRCC-ELC-E
Solar Thermal Water Heating (see Table I)	☐ Performance			Commissioning §120.8	NRCC-CXF-E
	☒ Not Included			Solar Ready §110.10	NRCC-SRA-E

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 2 of 13
Project Address:	Palmdale 93510	Calculation Date/Time:	22:38, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-CZ14[6].cibd19		

C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft²-yr)

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	18.92	68.99	-50.07
Space Cooling	99.88	143.03	-43.15
Indoor Fans	110.36	28.00	82.36
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	20.04	20.04	--
Indoor Lighting	29.15	16.47	12.68
ENERGY STANDARDS COMPLIANCE TOTAL	**278.35**	**276.53**	**1.82 (0.7%)**

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

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

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

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[2]
Receptacle	76.26	76.26	--
Process	--	--	--
Other Ltg	--	--	--
Process Motors	--	--	--
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**354.61**	**352.79**	**1.8 (0.5%)**

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

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 3 of 13
Project Address:	Palmdale 93510	Calculation Date/Time:	22:38, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-CZ14[6].cibd19		

C3. ENERGY USE SUMMARY

Energy Component	Standard Design Site (kWkh)	Proposed Design Site (kWkh)	Margin (kWkh)	Standard Design Site (kBtu)	Proposed Design Site (kBtu)	Margin (kBtu)
Space Heating	--	4.0	--	13.3	--	--
Space Cooling	3.4	4.7	-1.3	--	--	--
Indoor Fans	4.8	1.4	3.4	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	--	--	--	16.0	16.0	0.0
Indoor Lighting	1.4	0.8	0.6	--	--	--
Compliance Total	**9.6**	**10.9**	**-1.3**	**29.3**	**16.0**	**13.3**
Receptacle	3.8	3.8	0.0	--	--	--
Process	--	--	--	--	--	--
Other Ltg	--	--	--	--	--	--
Process Motors	--	--	--	--	--	--
TOTAL	**13.4**	**14.7**	**-1.3**	**29.3**	**16.0**	**13.3**

D. EXCEPTIONAL CONDITIONS

The building does not include service water heating. Verify that service water heating is not required and is not included in the design.
The user model includes space(s) that are designed to be served by mechanical cooling systems, but the cooling systems were not included in the simulation model. A cooling system has been modeled for both the proposed and standard cases.
The user model includes space(s) without sufficient cooling equipment. Cooling equipment has been added to the model to meet cooling loads.

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

Roof: the roof U-value has been calculated using EZFrame per CEC guidance; U-value = 0.070

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 4 of 13
Project Address:	Palmdale 93510	Calculation Date/Time:	22:38, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-CZ14[6].cibd19		

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

1	2	3	4
Opaque Surfaces & Orientation	**Total Gross Surface Area (ft²)**	**Total Fenestration Area (ft²)**	**Window to Wall Ratio (%)**
North-Facing[1]	400 ft²	0 ft²	00.0%
East-Facing[2]	360 ft²	80 ft²	22.2%
South-Facing[3]	400 ft²	0 ft²	00.0%
West-Facing[4]	360 ft²	120 ft²	33.3%
Total	**1,520 ft²**	**200 ft²**	**13.2%**
Roof	1,440 ft²	0 ft²	00.0%

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

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9	10
Surface Name	**Surface Type**	**Area (ft²)**	**Framing Type**	**Cavity R-Value**	**Continuous R-Value**	**Units**	**Value**	**Description of Assembly Layers**	**Status[1]**
Floor over Crawlspace	ExteriorFloor	1440	Metal	19	NA	U-Factor	0.068	Air - Floor : 3 1/2 in. Metal framed floor, 24in. OC, 7.25in., R-19 Plywood - 5/8 in. Carpet - 3/4 in.	N
Roof: U=0.70 per EZFrame	Roof	1440	Metal	19	2	U-Factor	0.071	Metal Standing Seam - 1/16 in. Expanded Polystyrene - EPS - 1/2 in., R2.1 Metal framed roof, 24in. OC, 5.5in., R-19 Acoustic Tile - 3/8 in.	N

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 5 of 13
Project Address:	Palmdale 93510	Calculation Date/Time:	22:38, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-CZ14[6].cibd19		

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9	10
Surface Name	**Surface Type**	**Area (ft²)**	**Framing Type**	**Cavity R-Value**	**Continuous R-Value**	**Units**	**Value**	**Description of Assembly Layers**	**Status[1]**
Ext Wall	ExteriorWall	1520	Wood	13	NA	U-Factor	0.093	Wood siding - 1/2 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 3.5in., R-13 Gypsum Board - 1/2 in. Slate or tile - 1/2 in.	N

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

G4. OPAQUE DOOR SUMMARY

1	2	3
Assembly Name	**Overall U-factor**	**Status[1]**
Door	0.700	N

G5. FENESTRATION ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9
Fenestration Assembly Name / Tag or I.D.	**Fenestration Type / Product Type / Frame Type**	**Certification Method[1]**	**Assembly Method**	**Area ft²**	**Overall U-Factor**	**Overall SHGC**	**Overall VT**	**Status[2]**
Windows	VerticalFenestration FixedWindow N/A	NFRC Rated	Manufactured	200	0.78	0.43	0.37	N

[1] *Newly installed fenestration shall have a certified NFRC label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass only, determined by the manufacturer, and are blows 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*

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 6 of 13
Project Address:	Palmdale 93510	Calculation Date/Time:	22:38, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-CZ14[6].cibd19		

H. HVAC SYSTEM SUMMARY

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

Dry System Equipment [1] (Fan & Economizer info included below in Table N)

1	2	3	4	5	6	7	8	9	10
			Heating				Cooling		
Equipment Name	**Equipment Type**	**Qty**	**Total Heating Output (kBtu/h)**	**Supp Heat Source (Y/N)**	**Supp Heat Output (kBtuh)**	**Efficiency**	**Total Cooling Output (kBtu/h)**	**Efficiency**	**Status[2]**
FC-1	SPVHP (Packaged1Phase)	1	43	Yes	13	COP-3.30	48	EER-11.00	N

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

H2. FAN SYSTEMS SUMMARY[1]

1	2	3	4	5	6	7	8	9	10	11	12	13
				Supply Fan			Return Fan					
Name or Item Tag	**System Type packaged, DOAS, etc.**	**Design OA CFM**	**CFM**	**BHP**	**Watts**	**Control**	**CFM**	**BHP**	**Watts**	**Control**	**Economizer Type (if present)**	**Status[2]**
FC-1	SPVHP	547	1550	0.319	260.3	ConstantVolume	NA	NA	NA	NA	NoEconomizer	N

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

H3. EXHAUST FAN SUMMARY

This Section Does Not Apply

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

This Section Does Not Apply

H5. SYSTEM SPECIAL FEATURES

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

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 7 of 13
Project Address:	Palmdale 93510	Calculation Date/Time:	22:38, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-CZ14[6].cibd19		

H5. SYSTEM SPECIAL FEATURES

1	2	3	4	5	6
System Name	**Optimum Start**	**Window Interlocks per §140.4(n)**	**Evaporative Cooling**	**Heat Recovery**	**Other Controls**

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

H6. MECHANICAL VENTILATION

1	2	3	4	5	6	7	8	9
	Mechanical Ventilation							
Zone Name	**Ventilation Function**	**# hotel rooms**	**# of people**	**# of bedrooms**	**Supply OA CFM**	**Exhaust CFM**	**Conditioned Area (sf)**	**DCV or Occupant Sensor Controls, or Both:**
Classroom 101_Zn	Education - Classrooms (ages 9-18)	0	36.00	0	547	0	1440	NA

Multifamily or Hotel/Motel Occupancy? (If "Yes", see DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY)	No
Does the Project include Zonal Systems?	Yes

H7. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12
			Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
System ID	**Zone Name**	**System Type**	**Heating**	**Cooling**	**Design**	**Min. Ratio**	**BHP**	**Watts**	**Cycles**	**ECM Motor**
FC-1_TRM	Classroom 101_Zn	Uncontrolled	NA	NA	1550	0.00	NA	NA	NA	☐

H8. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

02-XXXXX - [pk=dc5a7b2f-f5d0-4c7b-a8f3-0f2f7c2f2f2f] CBE File: P:\2021\03 Jobs\

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 8 of 13
Project Address:	Palmdale 93510	Calculation Date/Time:	22:38, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-CZ14(8).cibd19		

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

1	2	3	4	5	6
Occupancy Type [1]	Conditioned Floor Area [2] (ft²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance:	
				Area Category Footnotes (Watts)	Tailored Method (Watts)
Classroom, Lecture, Training, Vocational Areas	1,440	540	0	0	0
Building Totals:	1,440	540	0	0	0

[1] *See Table 140.6-C*
[2] *See NRCC-LTI-03-E for unconditioned spaces*
[3] *Lighting information for existing spaces modeled is not included in the table*

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)

1	2	Installed Watts (Conditioned)			
		3	4	5	6
Name or Item Tag	Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, FIXTR, one dimmable electronic ballast)	Watts per luminaire:	How Wattage is Determined:	Total Number Luminaires	Installed Watts
2x4 VTLED	2x4 - LED	45	According to §130.0(c)	12	540

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

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

1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaires	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
Classroom 101	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00	2x4 VTLED	135.0	3	135	0

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 9 of 13
Project Address:	Palmdale 93510	Calculation Date/Time:	22:38, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-CZ14(8).cibd19		

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

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

1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaires	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
Classroom 101	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00	2x4 VTLED	135.0	3	135	0
Classroom 101	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00	2x4 VTLED	270.0	6	270	0

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS

Building Level Controls

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

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

4	5	6	7	8	9	10
Area Description	Area Category Primary Function Area	Area Controls 130.1(a)	Multi-Level Controls 130.1(b)	Shut-Off Controls 130.1(c)	Primary Daylighting 130.1(d)	Secondary Daylighting 140.5(d)
Classrooms Daylit Zn Classrooms Non-daylit Zn	Classroom, Lecture, Training, Vocational Areas Classroom, Lecture, Training, Vocational Areas	Required Required	Required Required	Required Required	Required NA	Required NA

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 10 of 13
Project Address:	Palmdale 93510	Calculation Date/Time:	22:38, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-CZ14(8).cibd19		

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

Building Component	Form/Title:
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-01-E - Must be submitted for all buildings
	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS) to be recognized for compliance

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 11 of 13
Project Address:	Palmdale 93510	Calculation Date/Time:	22:38, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-CZ14(8).cibd19		

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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

Building Component	Form/Title:
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls
	NRCA-LTI-03-A - Automatic Daylight Controls
Mechanical	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units; Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
	NRCA-MCH-03-A Constant Volume Single-Zone HVAC
	NRCA-MCH-19 Occupancy Sensor Controls

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 12 of 13
Project Address:	Palmdale 93510	Calculation Date/Time:	22:38, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-CZ14(8).cibd19		

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

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

Building Component	Form/Title:
Mechanical	NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 13 of 13
Project Address:	Palmdale 93510	Calculation Date/Time:	22:38, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-CZ14(8).cibd19		

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Hans Marsman, CEA, LEED AP BD+C	Signature:
Company: Marsman Consulting	Digitally signed by Hans Marsman, LEED AP, CEA Date: 2021.03.29 09:04:32-07'00'
Address: 1150 J Street #409	Signature Date: 2021-03-29
City/State/Zip: San Diego CA 92101	CEA/ HERS Certification Identification (if applicable): NR-16-09-20024
Phone: (619) 573-6374	

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

Responsible Envelope Designer Name: Randall P Cavannagh	Signature:		
Company: American Modular Systems | Gen7 Schools	Date Signed: 04-08-21		
Address: 787 Spreckels Avenue			
City/State/Zip: Manteca CA 95336			
Phone: 209.825.1921	Title: Architect	License #: C12631	
Responsible Lighting Designer Name: Randall P Cavannagh	Signature:		
Company: American Modular Systems | Gen7 Schools	Date Signed: 04-08-21		
Address: 787 Spreckels Avenue			
City/State/Zip: Manteca CA 95336			
Phone: 209.825.1921	Title:	License #: C12631	
Responsible Mechanical Designer Name: Randall P Cavannagh	Signature:		
Company: American Modular Systems | Gen7 Schools	Date Signed: 04-08-21		
Address: 787 Spreckels Avenue			
City/State/Zip: Manteca CA 95336			
Phone: 209.825.1921	Title: Architect	License #: C12631	

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 1 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	22:40, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-CZ15(7).cibd19		

A. GENERAL INFORMATION

1	Project Location (city)	Palm Springs-Intl	8	Standards Version	Compliance2019
2	CA Zip Code	92240	9	Compliance Software (version)	CBECC-Com 2019.1.3
3	Climate Zone	15	10	Weather File	PALM-SPRINGS-INTL_722868_CZ2010.epw
4	Total Conditioned Floor Area in Scope	1,440 ft²	11	Building Orientation (deg)	(W) 300 deg
5	Total Unconditioned Floor Area	0 ft²	12	Permitted Scope of Work	NewComplete
6	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. PROJECT SUMMARY

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

	Building Components Complying via Performance			Building Components Complying Prescriptively		
Envelope (see Table G)	☒	Performance	Covered Process: Commercial Kitchens	☐	Performance	*The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e., compliance will not be shown on the NRCC-PRF-E):*
	☐	Not Included		☒	Not Included	
Mechanical (see Table H)	☒	Performance	Covered Process: Computer Rooms	☐	Performance	Indoor Lighting (Unconditioned)§140.6 — NRCC-LTI-E
	☐	Not Included		☒	Not Included	Outdoor Lighting §140.7 — NRCC-LTO-E
Domestic Hot Water (see Table I)	☐	Performance	Covered Process: Laboratory Exhaust	☐	Performance	Sign Lighting §140.8 — NRCC-LTS-E
	☒	Not Included		☒	Not Included	Mandatory Measures
Lighting (Indoor Conditioned, see Table K)	☒	Performance				*Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E):*
	☐	Not Included				Electrical Power Distribution §110.11 — NRCC-ELC-E
Solar Thermal Water Heating (see Table I)	☐	Performance				Commissioning §120.8 — NRCC-CXR-E
	☒	Not Included				Solar Ready §110.10 — NRCC-SRA-E

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 2 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	22:40, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-CZ15(7).cibd19		

C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft²-yr)

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	5.18	19.97	-14.79
Space Cooling	156.05	230.23	-74.18
Indoor Fans	118.33	24.84	93.49
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	18.02	18.02	--
Indoor Lighting	29.00	16.37	12.63
ENERGY STANDARDS COMPLIANCE TOTAL	**326.58**	**309.43**	**17.15 (5.3%)**

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

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

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

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[2]
Receptacle	75.63	75.63	--
Process	--	--	--
Other Ltg	--	--	--
Process Motors	--	--	--
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**402.21**	**385.06**	**17.2 (4.3%)**

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

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 3 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	22:40, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-CZ15(7).cibd19		

C3. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	--	1.2	--	3.6	12	12
Space Cooling	6.1	8.6	-2.5	--	--	--
Indoor Fans	5.3	1.2	4.1	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	--	--	--	14.3	14.3	0.0
Indoor Lighting	1.4	0.8	0.6	5	3	2
Compliance Total	**12.8**	**11.8**	**1.0**	**17.9**	**14.3**	**3.6**
Receptacle	3.8	3.8	0.0	--	--	--
Process	--	--	--	--	--	--
Other Ltg	--	--	--	--	--	--
Process Motors	--	--	--	--	--	--
TOTAL	**16.6**	**15.6**	**1.0**	**17.9**	**14.3**	**3.6**

D. EXCEPTIONAL CONDITIONS

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

The user model includes space(s) that are designed to be served by mechanical cooling systems, but the cooling systems were not included in the simulation model. A cooling system has been modeled for both the proposed and standard cases.

The user model includes space(s) without sufficient cooling equipment. Cooling equipment has been added to the model to meet cooling loads.

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

Roof: the roof U-value has been calculated using EZFrame per CEC guidance; U-value = 0.070

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 4 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	22:40, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-CZ15(7).cibd19		

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

1	2	3	4
Opaque Surfaces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Area (ft²)	Window to Wall Ratio (%)
North-Facing[1]	400 ft²	0 ft²	00.0%
East-Facing[2]	360 ft²	80 ft²	22.2%
South-Facing[3]	400 ft²	0 ft²	00.0%
West-Facing[4]	360 ft²	120 ft²	33.3%
Total	**1,520 ft²**	**200 ft²**	**13.2%**
Roof	1,440 ft²	0 ft²	00.0%

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

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9	10
Surface Name	Surface Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value	Units	Value	Description of Assembly Layers	Status[1]
Floor over Crawlspace	ExteriorFloor	1440	Metal	19	NA	U-Factor	0.068	Air - Floor - 3 1/2 in. Metal framed floor, 24in. OC, 7.25in., R-19 Plywood - 5/8 in. Carpet - 1/4 in.	N
Roof: U=0.70 per EZframe	Roof	1440	Metal	19	2	U-Factor	0.071	Metal Standing Seam - 1/16 in. Expanded Polystyrene - EPS - 1/2 in., R2.1 Metal framed roof, 24in. OC, 5.5in., R-19 Acoustic Tile - 3/8 in.	N

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 5 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	22:40, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-CZ15(7).cibd19		

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9	10
Surface Name	Surface Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value	Units	Value	Description of Assembly Layers	Status[1]
Ext Wall	ExteriorWall	1520	Wood	13	NA	U-Factor	0.093	Wood siding - 1/2 in. Vapor permeable felt - 1/8 in. Wood Framed wall, 16in. OC, R-Min., R-13 Gypsum Board - 1/2 in., Slate or tile - 1/2 in.	N

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

G4. OPAQUE DOOR SUMMARY

1	2	3
Assembly Name	Overall U-factor	Status[1]
Door	0.700	N

G5. FENESTRATION ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9
Fenestration Assembly Name / Tag or I.D.	Fenestration Type / Product Type / Frame Type	Certification Method[1]	Assembly Method	Area ft²	Overall U-factor	Overall SHGC	Overall VT	Status[2]
Windows	VerticalFenestration FixedWindow N/A	NFRC Rated	Manufactured	200	0.78	0.43	0.37	N

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

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 6 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	22:40, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-CZ15(7).cibd19		

H. HVAC SYSTEM SUMMARY

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

Dry System Equipment [1] (Fan & Economizer info included below in Table N):

1	2	3	4	5	6	7	8	9	10
			Heating				Cooling		
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Source (Y/N)	Supp Heat Output (kBtuh)	Efficiency	Total Cooling Output (kBtu/h)	Efficiency	Status[2]
FC-1	SPVHP (Packaged1Phase)	1	43	Yes	13	COP:3.30	48	EER:11.00	N

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

H2. FAN SYSTEMS SUMMARY[1]

1	2	3	4	5	6	7	8	9	10	11	12	13
	System Type	Design OA	Supply Fan				Return Fan				Economizer Type (if present)	Status[2]
Name or Item Tag	packaged, DOAS, etc.	CFM	CFM	BHP	Watts	Control	CFM	BHP:	Watts	Control		
FC-1	SPVHP	547	1550	0.319	260.3	ConstantVolume	NA	NA:	NA	NA	NoEconomizer	N

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

H3. EXHAUST FAN SUMMARY

This Section Does Not Apply

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

This Section Does Not Apply

H5. SYSTEM SPECIAL FEATURES

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
ANDREW PATRICK KNIGHT
No. C12631
Rem. 9-31-23
STATE OF CALIFORNIA

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

REVISIONS

DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

SHEET TITLE:

ENERGY CALCULATIONS

SHEET NUMBER:

EN.5

02-XXXX - [illegible]

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 7 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	22-40, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-C215(7).cibd19		

HS. SYSTEM SPECIAL FEATURES

1	2	3	4	5	6
System Name	Optimum Start	Window Interlocks per §140.4(n)	Evaporative Cooling	Heat Recovery	Other Controls

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

H6. MECHANICAL VENTILATION

1	2	3	4	5	6	7	8	9
Zone Name	Mechanical Ventilation							DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# hotel rooms	# of people	# of bedrooms	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	
Classroom 101_Zn	Education - Classrooms (ages 9-18)	0	36.00	0	547	0	1440	NA

Multifamily or Hotel/Motel Occupancy? (if "Yes", see DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY)	No
Does the Project include Zonal Systems?	Yes

H7. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12
System ID	Zone Name	System Type	Rated Capacity (kBtu/h)		Airflow (cfm)			Fan			
			Heating	Cooling	Design	Min.	Min. Ratio	BHP	Watts	Cycles	ECM Motor
FC-1_TRM	Classroom 101_Zn	Uncontrolled	NA	NA	1550	NA	0.00	NA	NA	NA	☐

H8. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 8 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	22-40, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-C215(7).cibd19		

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

1	2	3	4	5	6
Occupancy Type [1]	Conditioned Floor Area [2] (ft²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Additional (Custom) Allowance	
				Area Category Footnotes (Watts)	Tailored Method (Watts)
Classroom, Lecture, Training, Vocational Areas	1,440	540	0	0	0
Building Totals:	**1,440**	**540**	**0**	**0**	**0**

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

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)

1	2	3	4	5	6
		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 Wattage is Determined	Total Number Luminaires	Installed Watts
2x4 VTLED	2x4 - LED	45	According to §130.0(c)	12	540

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

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

1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
Classroom 101	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00 0.00	2x4 VTLED	135.0	3	135	0

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 9 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	22-40, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-C215(7).cibd19		

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

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

1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
Classroom 101	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00 0.00	2x4 VTLED	135.0	3	135	0
Classroom 101	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00 0.00	2x4 VTLED	270.0	6	270	0

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS

Building Level Controls

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

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

4	5	6	7	8	9	10
Area Description	Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary Daylighting §130.1(d)	Secondary Daylighting §140.5(d)
Classrooms Daylit Zn	Classroom, Lecture, Training, Vocational Areas	Required	Required	Required	Required	Required
Classrooms Non-daylit Zn	Classroom, Lecture, Training, Vocational Areas	Required	Required	Required	NA	NA

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 10 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	22-40, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-C215(7).cibd19		

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

Building Component	Form/Title:
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-01-E - Must be submitted for all buildings NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS) to be recognized for compliance.

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 11 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	22-40, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-C215(7).cibd19		

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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

Building Component	Form/Title:
Envelope	NRCA-ENV-03-F - NRFC label verification for fenestration
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls NRCA-LTI-03-A - Automatic Daylight Controls
Mechanical	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units; Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap NRCA-MCH-03-A Constant Volume Single Zone HVAC NRCA-MCH-39 Occupancy Sensor Controls

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 12 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	22-40, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-C215(7).cibd19		

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Table Instructions: Selections shall be made by Documentation Author to 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 at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/

Building Component	Form/Title:
Mechanical	NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 13 of 13
Project Address:	Palm Springs-Intl 92240	Calculation Date/Time:	22-40, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-C215(7).cibd19		

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Hans Marsman, CEA, LEED AP BD+C	
Company: Marsman Consulting	Signature:
Address: 1150 J Street #409	Signature Date: 2021-03-29
City/State/Zip: San Diego CA 92101	CEA/ HERS Certification Identification (if applicable):
Phone: (619) 573-6374	

Digitally signed by Hans Marsman, LEED AP, CEA Date: 2021.04.07 08:13:09 -07'00'

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

Responsible Envelope Designer Name: Randall P Cavannagh	Signature:		
Company: American Modular Systems | Gen7 Schools			
Address: 787 Spreckels Avenue	Date Signed: 04-08-21		
City/State/Zip: Manteca CA 95336			
Phone: 209.825.1921	Title: Architect	License #: C12631	
Responsible Lighting Designer Name: Randall P Cavannagh	Signature:		
Company: American Modular Systems | Gen7 Schools			
Address: 787 Spreckels Avenue	Date Signed: 04-08-21		
City/State/Zip: Manteca CA 95336			
Phone: 209.825.1921	Title:	License #: C12631	
Responsible Mechanical Designer Name: Randall P Cavannagh	Signature:		
Company: American Modular Systems | Gen7 Schools			
Address: 787 Spreckels Avenue	Date Signed: 04-08-21		
City/State/Zip: Manteca CA 95336			
Phone: 209.825.1921	Title: Architect	License #: C12631	

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 1 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	22-43, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-C216(7).cibd19		

A. GENERAL INFORMATION

1	Project Location (city)	Blue Canyon	8	Standards Version	Compliance2019
2	CA Zip Code	95715	9	Compliance Software (version)	CBECC-Com.2019.1.3
3	Climate Zone	16	10	Weather File	BLUE-CANYON_725845_CZ2010.epw:
4	Total Conditioned Floor Area in Scope	1,440 ft²	11	Building Orientation (deg)	(W) 300 deg
5	Total Unconditioned Floor Area	0 ft²	12	Permitted Scope of Work	NewComplete
6	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7	Total # of dwelling units	0	14	Gas Type:	NaturalGas

B. PROJECT SUMMARY

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

Building Components Complying via Performance				Building Components Complying Prescriptively	
Envelope (see Table G)	☒ Performance ☐ Not Included	Covered Process: Commercial Kitchens	☐ Performance ☒ Not Included	*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):*	
Mechanical (see Table H)	☒ Performance ☐ Not Included	Covered Process: Computer Rooms	☐ Performance ☒ Not Included	Indoor Lighting (Unconditioned)§140.6	NRCC-LTI-E
				Outdoor Lighting §140.7	NRCC-LTO-E
Domestic Hot Water (see Table I)	☐ Performance ☒ Not Included	Covered Process: Laboratory Exhaust	☐ Performance ☒ Not Included	Sign Lighting §140.8	NRCC-LTS-E
Lighting (Indoor Conditioned, see Table K)	☒ Performance			Mandatory Measures	
				Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E).	
	☐ Not Included			Electrical Power Distribution 5110.11	NRCC-ELC-E
				Commissioning 5120.8	NRCC-CXR-E
Solar Thermal Water Heating (see Table I)	☐ Performance ☒ Not Included			Solar Ready 5110.10	NRCC-SRA-E

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 2 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	22-43, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-C216(7).cibd19		

C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft²-yr)

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	19.79	178.96	-159.17
Space Cooling	31.11	41.31	-10.20
Indoor Fans	198.98	32.19	166.79
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	21.58	21.58	--
Indoor Lighting	29.42	16.56	12.86
ENERGY STANDARDS COMPLIANCE TOTAL	**300.88**	**290.60**	**10.28 (3.4%)**

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

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

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

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[2]
Receptacle	72.32	72.32	--
Process	--	--	--
Other Ltg	--	--	--
Process Motors	--	--	--
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**373.20**	**362.92**	**10.3 (2.8%)**

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

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 3 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	22-43, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-C216(7).cibd19		

C3. ENERGY USE SUMMARY

Energy Component	Standard Design Site (kWh/y)	Proposed Design Site (kWh/y)	Margin (kWh/y)	Standard Design Site (MBtu/y)	Proposed Design Site (MBtu/y)	Margin (MBtu/y)
Space Heating	--	8.4	--	14.4	--	--
Space Cooling	1.3	1.8	-0.5	--	--	--
Indoor Fans	9.7	1.6	8.1	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	--	--	--	17.2	17.2	0.0
Indoor Lighting	1.5	0.8	0.7	--	--	--
Compliance Total	**12.5**	**12.6**	**-0.1**	**31.6**	**17.2**	**14.4**
Receptacle	3.8	3.8	0.0	--	--	--
Process	--	--	--	--	--	--
Other Ltg	--	--	--	--	--	--
Process Motors	--	--	--	--	--	--
TOTAL	**16.3**	**16.4**	**-0.1**	**31.6**	**17.2**	**14.4**

D. EXCEPTIONAL CONDITIONS

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

The user model includes space(s) that are designed to be served by mechanical cooling systems, but the cooling systems were not included in the simulation model. A cooling system has been modeled for both the proposed and standard cases.

The user model includes space(s) without sufficient cooling equipment. Cooling equipment has been added to the model to meet cooling loads.

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

Roof: the roof U-value has been calculated using EZFrame per CEC guidance; U-value = 0.070

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 4 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	22-43, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-C216(7).cibd19		

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

1	2	3	4
Opaque Surfaces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Area (ft²)	Window to Wall Ratio (%)
North-Facing[1]	400 ft²	0 ft²	00.0%
East-Facing[2]	360 ft²	80 ft²	22.2%
South-Facing[3]	400 ft²	0 ft²	00.0%
West-Facing[4]	360 ft²	120 ft²	33.3%
Total	**1,520 ft²**	**200 ft²**	**13.2%**
Roof	1,440 ft²	0 ft²	00.0%

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

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9	10
Surface Name	Surface Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value	Units	Value	Description of Assembly Layers	Status[1]
Floor over Crawlspace	ExteriorFloor	1440	Metal	19	NA	U-Factor	0.068	Air - Floor : 1 1/2 in. Metal framed floor, 24in. OC, 7.25in., R-19 Plywood - 5/8 in. Carpet - 3/4 in.	N
Roof: U=0.70 per EZFrame	Roof	1440	Metal	19	2.	U-Factor	0.071	Metal Standing Seam - 1/16 in. Expanded Polystyrene - EPS - 1/2 in. R2.1 Metal framed roof, 24in. OC, 5.5in., R-19 Acoustic Tile - 3/8 in.	N

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 5 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	22-43, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-C216(7).cibd19		

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9	10
Surface Name	Surface Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value	Units	Value	Description of Assembly Layers	Status[1]
Ext Wall	ExteriorWall	1520	Wood	13	NA	U-Factor	0.093	Wood siding - 1/2 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 5 5/8in., R-13 Gypsum Board - 1/2 in. Slate or tile - 1/2 in.	N

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

G4. OPAQUE DOOR SUMMARY

1	2	3
Assembly Name	Overall U-factor	Status[1]
Door	0.700	N

G5. FENESTRATION ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9
Fenestration Assembly Name / Tag or I.D.	Fenestration Type / Product Type / Frame Type	Certification Method[2]	Assembly Method	Area ft²	Overall U-factor	Overall SHGC	Overall VT	Status[1]
Windows	VerticalFenestration FixedWindow N/A	NFRC Rated	Manufactured	200	0.78	0.43	0.37	N

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

02-XXXX - Jjnwdcqb/RUBUOB-r9v-bAv-0Z-0ZZ0Z0Z0Z-9K PN/PDEB7EB/B8YB4HHNJ-9K 3Nwwwwwp/QPDYdNwJBWWDDDDDDDDDDBBB

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 6 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	22:43, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-CZ16(7).cibd19		

H. HVAC SYSTEM SUMMARY

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

Dry System Equipment [1] (Fan & Economizer info included below in Table h):

1	2	3	4	5	6	7	8	9	10
			Heating				Cooling		
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Source (Y/N)	Supp Heat Output (kBtuh)	Efficiency	Total Cooling Output (kBtu/h)	Efficiency	Status[2]
FC-1	SPVHP (PackagedSPhase)	1	43	Yes	13	COP-3.30	48	EER-11.00	N

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

H2. FAN SYSTEMS SUMMARY[1]

1	2	3	4	5	6	7	8	9	10	11	12	13
	System Type	Design OA	Supply Fan				Return Fan				Economizer Type (if present)	Status[2]
Name or Item Tag	packaged, DOAS, etc.	CFM	CFM	BHP	Watts	Control	CFM	BHP	Watts	Control		
FC-1	SPVHP	547	1550	0.319	260.3	ConstantVolume	NA	NA	NA	NA	NoEconomizer	N

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

H3. EXHAUST FAN SUMMARY

This Section Does Not Apply

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

This Section Does Not Apply

H5. SYSTEM SPECIAL FEATURES

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

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 7 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	22:43, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-CZ16(7).cibd19		

H5. SYSTEM SPECIAL FEATURES

1	2	3	4	5	6
System Name	Optimum Start	Window Interlocks per §140.4(n)	Evaporative Cooling	Heat Recovery	Other Controls

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

H6. MECHANICAL VENTILATION

1	2	3	4	5	6	7	8	9
		Mechanical Ventilation						DCV or Occupant Sensor Controls, or Both
Zone Name	Ventilation Function	# hotel rooms	# of people	# of bedrooms	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	
Classroom 101_Zn	Education - Classrooms (ages 9-18)	0	36.00	0	547	0	1440	NA

Multifamily or Hotel/Motel Occupancy? (If "Yes", see DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY)	No
Does the Project include Zonal Systems?	Yes

H7. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12
			Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
System ID	Zone Name	System Type	Heating	Cooling	Design	Min.	Min. Ratio	BHP	Watts	Cycles	ECM Motor
FC-1_TRM	Classroom 101_Zn	Uncontrolled	NA	NA	1550	NA	0.00	NA	NA	NA	☐

H8. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 8 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	22:43, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-CZ16(7).cibd19		

K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

1	2	3	4	5	6
				Additional (Custom) Allowance:	
Occupancy Type [1]	Conditioned Floor Area [2] (ft²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Area Category Footnotes (Watts)	Tailored Method (Watts)
Classroom, Lecture, Training, Vocational Areas	1,440	540	0	0	0
Building Totals:	1,440	540	0	0	0

[1] See Table 140.6-C
[2] See NRCC-LTI-03-E for unconditioned spaces
[3] Lighting information for existing spaces modeled is not included in the table

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)

1	2	3	4	5	6
			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 Wattage is Determined	Total Number Luminaires	Installed Watts
2x4 VTLED	2x4 - LED	45	According to §130.0(c)	12	540

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

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

1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
Classroom 101	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00	2x4 VTLED	135.0	3	135	0

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 9 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	22:43, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-CZ16(7).cibd19		

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

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

1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
Classroom 101	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00	2x4 VTLED	135.0	3	135	0
Classroom 101	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00	2x4 VTLED	270.0	6	270	0

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS

Building Level Controls

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

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

4	5	6	7	8	9	10
Area Description	Area Category Primary Function Area	Area Controls 130.1(a)	Multi-Level Controls 130.1(b)	Shut-Off Controls 130.1(c)	Primary Daylighting 130.1(d)	Secondary Daylighting 140.5(d)
Classrooms Daylit Zn Classrooms Non-daylit Zn	Classroom, Lecture, Training, Vocational Areas Classroom, Lecture, Training, Vocational Areas	Required Required	Required Required	Required Required	Required NA	Required NA

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 10 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	22:43, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-CZ16(7).cibd19		

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

Building Component	Form/Title:
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-01-E - Must be submitted for all buildings NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS) to be recognized for compliance.

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 11 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	22:43, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-CZ16(7).cibd19		

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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

Building Component	Form/Title:
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls NRCA-LTI-03-A - Automatic Daylight Controls
Mechanical	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH 07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap NRCA-MCH-03-A Constant Volume Single Zone HVAC NRCA-MCH-19 Occupancy Sensor Controls

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 12 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	22:43, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-CZ16(7).cibd19		

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

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

Building Component	Form/Title:
Mechanical	NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation

Project Name:	AMS PC 36x40 2GO	NRCC-PRF-01-E	Page 13 of 13
Project Address:	Blue Canyon 95715	Calculation Date/Time:	22:43, Mon, Mar 29, 2021
Input File Name:	AMS 36x40 for DSA-CZ16(7).cibd19		

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Hans Manniman, CEA, LEED AP BD+C	
Company: Marsman Consulting	Signature:
Address: 1150 J Street #409	Signature Date: 2021-03-29
City/State/Zip: San Diego CA 92101	CEA/ HERS Certification Identification (if applicable): N
Phone: (619) 573-4374	

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, Parts 1 and 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Envelope Designer Name: Randall P Cavannagh	Signature:	
Company: American Modular Systems | Gen7 Schools		
Address: 787 Spreckels Avenue	Date Signed: 04-08-21	
City/State/Zip: Manteca CA 95336		
Phone: 209.825.1921	Title: Architect	License #: C12631
Responsible Lighting Designer Name: Randall P Cavannagh	Signature:	
Company: American Modular Systems | Gen7 Schools		
Address: 787 Spreckels Avenue	Date Signed: 04-08-21	
City/State/Zip: Manteca CA 95336		
Phone: 209.825.1921	Title: Architect	License #: C12631
Responsible Mechanical Designer Name: Randall P Cavannagh	Signature:	
Company: American Modular Systems | Gen7 Schools		
Address: 787 Spreckels Avenue	Date Signed: 04-08-21	
City/State/Zip: Manteca CA 95336		
Phone: 209.825.1921	Title: Architect	License #: C12631

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

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	AMS 24x40 RR & Ext Ltg	Report Page:	[Page 1 of 7]
Project Address:		Date Prepared:	2021-04-07T13:49:12-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Palmdala	04	Total Illuminated Hardscape Area (ft²)	0
02	Climate Zone	14			
03	Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐	LZ-0: Very Low - Undeveloped Parkland	☐ LZ-2: Moderate - Rural Areas	☐	LZ-4: High - Must be reviewed by CA Energy Commission for Approval	
☐	LZ-1: Low - Developed Parkland	☒ LZ-3: Moderately High - Urban Areas			

B. PROJECT SCOPE

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

My Project Consists of:

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

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

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

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

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace

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

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	AMS 24x40 RR & Ext Ltg	Report Page:	[Page 2 of 7]
Project Address:		Date Prepared:	2021-04-07T13:49:12-04:00

C. COMPLIANCE RESULTS

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

Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L

01		02		03		04		05	OR	06	=	07		08		09
														Compliance Results		
General Hardscape Allowance §140.7(d)1 (See Table I)	+	Per Application §140.7(d)2 (See Table J)	+	Sales Frontage §140.7(d)2 (See Table K)	+	Ornamental §140.7(d)2 (See Table L)	+	Per Specific Area §140.7(d)2 (See Table M)		Existing Power Allowance §141.0(b)2L (See Table N)		Total Allowed (Watts)	≥	Total Actual (Watts)		07 must be >= 08
350	+	19	+	----	+	----	+	----	OR	----	=	369	≥	40		COMPLIES

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

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace

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

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	AMS 24x40 RR & Ext Ltg	Report Page:	[Page 3 of 7]
Project Address:		Date Prepared:	2021-04-07T13:49:12-04:00

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

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

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1,3]	How is Wattage determined	Total number luminaires [2]	Luminaire Status[3]	Excluded per §140.7(a)	Design Watts	Cutoff Req. > 6,200 initial lumen output §130.2(b) [4]	Field Inspector	
										Pass	Fail
Ext Lig Fixture @ Door	40W LED	☐ Linear	40	Mfr. Spec	1	New	☐	40	NA, < 6200 lumens	☐	☐
							Total Design Watts:	40			

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

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

G. CUTOFF REQUIREMENTS (BUG)

This section does not apply to this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace

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

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	AMS 24x40 RR & Ext Ltg	Report Page:	[Page 4 of 7]
Project Address:		Date Prepared:	2021-04-07T13:49:12-04:00

H. OUTDOOR LIGHTING CONTROLS

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

Mandatory Controls

01	02	03	04	05	
Area Description	Shut-Off §130.1(c)1	Auto-Schedule §130.2(c)2	Motion Sensor §130.2(c)3	Field Inspector	
				Pass	Fail
Entry Doors: Ext Lig Fixture @ Door	Astronomical Timer	Yes	Yes	☐	☐

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

I. LIGHTING POWER ALLOWANCE (per §140.7)

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

	01				
	☐ General Hardscape Allowance Table I (below)	"Use it or lose it" Allowance (select all that apply) (select all that apply)			
		☒ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M
Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 0, 1 & 4)					
This section does not apply to this project.					
Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 2 & 3)					
This section does not apply to this project.					

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

. . .

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
RANDALL PATRICK CAVANNAGH
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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

REVISIONS

1
2
3
4

DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

SHEET TITLE:

ENERGY CALCULATIONS

SHEET NUMBER:

EN.7

ID: XXXXX-2bHvRdHcRBdBuRv-0x1dQ1ZQ2ZQ2ZQ2

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

CERTIFICATE OF COMPLIANCE			NRCC-LTG-E
Project Name:	AMS 24x40 RR & Ext Ltg	Report Page:	[Page 5 of 7]
Project Address:		Date Prepared:	2021-04-07T13:49:12-04:00

J. LIGHTING ALLOWANCE: PER APPLICATION

This table includes areas using the wattage allowance per application from Table 140.7-B.

01	02	03	04	05	06	07	08	09	10
		CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				
Area Description	Application per Table 140.7-B[1]	# of Locations	Allowance per Location[2]	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
Entry Doors	Building Entrance/Exit	1	19	19	Ext Ltg Fixture @ Door	40	1	40	19
							Total Design Watts for this Area:	40	
							Total Allowance (Watts) All Areas:		19

[1] *FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.*
[2] *The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B.*
[3] *For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.*

K. LIGHTING ALLOWANCE: SALES FRONTAGE
This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL
This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA
This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)
This section does not apply to this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2021-04-07 10:49:03

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

CERTIFICATE OF COMPLIANCE			NRCC-LTG-E
Project Name:	AMS 24x40 RR & Ext Ltg	Report Page:	[Page 6 of 7]
Project Address:		Date Prepared:	2021-04-07T13:49:12-04:00

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

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

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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

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

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2021-04-07 10:49:03

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

CERTIFICATE OF COMPLIANCE			NRCC-LTG-E
Project Name:	AMS 24x40 RR & Ext Ltg	Report Page:	[Page 7 of 7]
Project Address:		Date Prepared:	2021-04-07T13:49:12-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Hans Marsman		Documentation Author Signature:	
Company: Marsman Consulting		Signature Date:	
Address: 1150 J Street #409		CEA/ HERS Certification Identification (if applicable):	
City/State/Zip: San Diego, CA 92101		Phone: (619) 573-6374	

Digitally signed by Hans Marsman, LEED AP, CEA
Date: 2021.04.07 10:53:09 07'00'

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: Randall P Cavannagh		Responsible Designer Signature:	
Company: American Modular Systems | Gen7 Schools		Date Signed: 04/07/2021	
Address: 787 Spreckels Avenue		License: C12631	
City/State/Zip: Manteca, CA 95336		Phone: 209.825.1921	

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2021-04-07 10:49:03

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	AMS 24x40 RR & Ext Ltg	Report Page:	[Page 1 of 8]
Project Address:		Date Prepared:	2021-04-07T13:47:58-04:00

This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.

Project Name:	AMS 24x40 RR & Ext Ltg	Report Page:	[Page 1 of 8]
Project Address:		Date Prepared:	2021-04-07T13:47:58-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Palmdala	04	Total Conditioned Floor Area (ft²)	0
02	Climate Zone	14	05	Total Unconditioned Floor Area (ft²)	360
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

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

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Area Category Method	0	Area Category Method	360
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)			360	

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2021-04-07 10:47:51

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	AMS 24x40 RR & Ext Ltg	Report Page:	[Page 2 of 8]
Project Address:		Date Prepared:	2021-04-07T13:47:58-04:00

C. COMPLIANCE RESULTS

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

Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b)1	Allowed Lighting Power per §140.6(b) (Watts) 01 Complete Building §140.6(c)1 (See Table I)	02 Area Category §140.6(c)2 (See Table I)	03 Area Category Additional §140.6(c)2(G) (+) (See Table J)	04 Tailored §140.6(c)3 (+) (See Table K)	=	05 Total Allowed (Watts)	≥	Adjusted Lighting Power per §140.6(a) (Watts) 06 Total Designed (Watts) (See Table F)	07 Adjustments PAF Lighting Control Credits[1] §140.6(a)2 (-) (See Table P)	=	08 Total Adjusted (Watts) *Includes Adjustments	Compliance Results 09 05 must be >= 08 §140.6
Conditioned					=		≥			=		
Unconditioned		276.5			=	276.5	≥	265		=	265	COMPLIES
Controls Compliance (See Table H for Details)												COMPLIES with Exceptional Conditions
Rated Power Reduction Compliance (See Table Q for Details)												

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

D. EXCEPTIONAL CONDITIONS

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

H. Indoor Lighting Controls [Not including PAFs] Permit Applicant Notes	[Restroom 1] [Multilevel Controls] EXCEPTION 2: Restrooms -- [Restroom 2] [Multilevel Controls] EXCEPTION 2: Restrooms -- [Restroom 3] [Multilevel Controls] EXCEPTION 2: Restrooms -- [Plumb Chase] [Multilevel Controls] Not Required: Space <100 ft²/sup> --- [Shut-Off Controls] Electrical equipment room

E. ADDITIONAL REMARKS

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

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2021-04-07 10:47:51

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	AMS 24x40 RR & Ext Ltg	Report Page:	[Page 3 of 8]
Project Address:		Date Prepared:	2021-04-07T13:47:58-04:00

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all permanent designed lighting and all portable lighting in offices.

Designed Wattage: Unconditioned Spaces

01 Name or Item Tag	02 Complete Luminaire Description	03 Modular (Track) Fixture	04 Small Aperture & Color Change[1]	05 Watts per luminaire[2]	06 How is Wattage determined	07 Total Number of Luminaires	08 Excluded per §140.6(a)3	09 Design Watts	10 Field Inspector Pass	10 Field Inspector Fail
2x4 LED	2x4 LED	No	No	45	Mfr. Spec	5	No	225	☐	☐
40W Incandescent	40W Incandescent	No	No	40	CEC Default	1	No	40	☐	☐
					Total Designed Watts: UNCONDITIONED SPACES			265		

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

G. MODULAR LIGHTING SYSTEMS
This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

*This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01 Mandatory Demand Response §110.12(c)	02 Shut-off controls §130.1(c)	03 Field Inspector Pass	03 Field Inspector Fail
Not Required <= 10,000 SF	See Area/Space Level Controls	☐	☐

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2021-04-07 10:47:51

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	AMS 24x40 RR & Ext Ltg	Report Page:	[Page 4 of 8]
Project Address:		Date Prepared:	2021-04-07T13:47:58-04:00

H. INDOOR LIGHTING CONTROLS (Not Including PAFs)

Area Level Controls

04 Area Description	05 Complete Building or Area Category Primary Function Area	06 Area Controls §130.1(a)	07 Multi-Level Controls §130.1(b)	08 Shut-Off Controls §130.1(c)	09 Primary/Sky lit Daylighting §130.1(d)	10 Secondary Daylighting §140.6(d)	11 Interlocked Systems §140.6(a)1	12 Field Inspector Pass	12 Field Inspector Fail
Restroom 1	Restrooms	Manual ON/OFF	Exempt*	Occupancy Sensor	N/A	N/A	No	☐	☐
Restroom 2	Restrooms	Manual ON/OFF	Exempt*	Occupancy Sensor	N/A	N/A	No	☐	☐
Restroom 3	Restrooms	Manual ON/OFF	Exempt*	Occupancy Sensor	N/A	N/A	No	☐	☐
Plumb Chase	Electrical Mechancial Telephone Room	Manual ON/OFF	Exempt*	Exempt*	N/A	N/A	No	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2

	13
	Plan Sheet Showing Daylit Zones:
Restroom 1	{Multilevel Controls} EXCEPTION 2: Restrooms
Restroom 2	{Multilevel Controls} EXCEPTION 2: Restrooms
Restroom 3	{Multilevel Controls} EXCEPTION 2: Restrooms
Plumb Chase	{Multilevel Controls} Not Required: Space <100 ft²/sup> --- [Shut-Off Controls] Electrical equipment room

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2021-04-07 10:47:51

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	AMS 24x40 RR & Ext Ltg	Report Page:	[Page 5 of 8]
Project Address:		Date Prepared:	2021-04-07T13:47:58-04:00

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(e) are being used .

Unconditioned Spaces

01 Area Description	02 Complete Building or Area Category Primary Function Area	03 Allowed Density (W/ft²)	04 Area (ft²)	05 Allowed Wattage (Watts)	06 Additional Allowance / Adjustment Area Category	06 Additional Allowance / Adjustment PAF
Restroom 1	Restrooms	0.6	155	100.7	No	No
Restroom 2	Restrooms	0.6	155	100.7	No	No
Restroom 3	Restrooms	0.6	60	39	No	No
Plumb Chase	Electrical Mechancial Telephone Room	0.4	90	36	No	No
		TOTALS:	460	276.5	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS
This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This section does not apply to this project.

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2021-04-07 10:47:51

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	AMS 24x40 RR & Ext Ltg	Report Page:	[Page 6 of 8]
Project Address:		Date Prepared:	2021-04-07T13:47:58-04:00

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS
This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS
This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This section does not apply to this project.

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

Yes	No	Form/Title	Field Inspector Pass	Field Inspector Fail
●	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
○	●	NRCI-LTI-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-05-E- Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-06-E- Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2021-04-07 10:47:51

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	AMS 24x40 RR & Ext Ltg	Report Page:	[Page 7 of 8]
Project Address:		Date Prepared:	2021-04-07T13:47:58-04:00

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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

Yes	No	Form/Title	Field Inspector Pass	Field Inspector Fail
●	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
○	●	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
○	●	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	●	NRCA-LTI-05-A. - Must be submitted for institutional tuning power adjustment factor (PAF)	☐	☐

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2021-04-07 10:47:51

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	AMS 24x40 RR & Ext Ltg	Report Page:	[Page 8 of 8]
Project Address:		Date Prepared:	2021-04-07T13:47:58-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Hans Marsman		Documentation Author Signature:	
Company: Marsman Consulting		Signature Date:	
Address: 1150 J Street #409		CEA/ HERS Certification Identification (if applicable):	
City/State/Zip: San Diego, CA 92101		Phone: (619) 573-6374	

Digitally signed by Hans Marsman, LEED AP, CEA
Date: 2021.04.07 10:50:45 07'00'

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: Randall P Cavannagh		Responsible Designer Signature:	
Company: American Modular Systems | Gen7 Schools		Date Signed: 04/07/2021	
Address: 787 Spreckels Avenue		License: C12631	
City/State/Zip: Manteca, CA 95336		Phone: 209.825.1921	

Registration Number: | Registration Date/Time: | Registration Provider: Energy Code Ace
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance | Report Version: 2019.1.003 Schema Version: rev 20200601 | Report Generated: 2021-04-07 10:47:51

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E (Created 12/17)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-ELC-E

This document is used to demonstrate compliance with mandatory requirements in §130.5 for electrical systems in newly constructed nonresidential, high-rise residential and hotel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per §141.0(b) or §141.0(b)2F for alterations.

Project Name: 2019 24x40 2GO PC	Report Page:	Page 1 of 3
Project Address: N/A (SITE SPECIFIC)	Date Prepared:	04/27/2020

A. GENERAL INFORMATION

01. Project Location (city) | 02. Occupancy Types Within Project:

☐ Office ☐ Retail ☐ Warehouse ☐ Hotel/ Motel ☒ School ☐ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☒ Relocatable ☐ Other (Write In):

B. PROJECT SCOPE

Table Instructions: Include any electrical service systems that are within the scope of the permit application.

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

[1] *FOOTNOTES: Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.*

C. COMPLIANCE RESULTS

Table Instructions: If this table says "DOES NOT COMPLY" refer to Table D. for guidance and review the Table that indicates "No".

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

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards — December 2017

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — ROBERT PATRICK MARSMAN — No. C12631 Ren. 3-31-23 — STATE OF CALIFORNIA

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

REVISIONS

1
2
3
4

DRAWN BY: ADS/AH
SCALE: AS NOTED
DATE: 03/11/21
PROJECT NO: XXXX-21

SHEET TITLE:

ENERGY CALCULATIONS

SHEET NUMBER:

EN.8

02 XXXX - 2h4h4h5h7h8h9h0h1h2h3h5h6h7h8h9h0h1h2h3h4h5h6h7h8h9h0h1h2h3h4h5h6h7h8h9h0h1h2h3h4

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E (Created 12/17) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: 2019 24x40 2GO PC	Report Page:	Page 2 of 3
Project Address: N/A (SITE SPECIFIC)	Date Prepared: 04/27/2020	

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

No exceptional conditions apply to this project.

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

F. SERVICE ELECTRICAL METERING
This Section Does Not Apply

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING
This Section Does Not Apply

H. VOLTAGE DROP
This Section Does Not Apply

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES
This Section Does Not Apply

J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at http://www.energy.ca.gov/2015publications/CEC-400-2015-033/appendices/forms/NRC)

YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
(•)	( )	NRCI-ELC-01-E - Must be submitted for all buildings.	☐	☐

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
There are no Certificates of Acceptance applicable to electrical power distribution requirements.

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E (Created 12/17) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: 2019 24x40 2GO PC	Report Page:	Page 3 of 3
Project Address: N/A (SITE SPECIFIC)	Date Prepared: 04/27/2020	

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

Documentation Author Name: JACOB P. JONES	Documentation Author Signature:
Company: AMERICAN MODULAR SYSTEM	Signature Date: 04/27/2020
Address: 787 SPRECKELS AVE.	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: MANTECA, CA 95336	Phone: (209) 825-1921

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: Randall P. Cavanagh	Responsible Designer Signature:
Company: AMS	Date Signed: 04/28/2020
Address: 787 Spreckels Ave.	License: C12631
City/State/Zip: Manteca, CA 95336	Phone: 209-825-1921

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

Documentation Author Name: RANDALL P. CAVANAGH	Responsible Designer Signature:
Company: AMERICAN MODULAR SYSTEM	Date Signed: 04/28/2020
Address: 787 SPRECKELS AVE.	License: C12631
City/State/Zip: MANTECA, CA 95336	Phone: (209) 825-1921

STATE OF CALIFORNIA
SOLAR READY AREAS
CEC-NRCC-SRA-01-E (Revised 07/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-SRA-01-E
Solar Ready Areas		(Page 1 of 3)
Project Name: 2019 AMS 24x40 2GO PC	Date Prepared: 04/28/2020	

A. General Information
Project Address:

Building Type:
☐ Hotel/Motel building with two stories or fewer ☐ High-rise multi-family building with ten stories or fewer
☑ Other nonresidential building with three stories or fewer

Solar-ready requirements do not apply to hotel/motel buildings and high-rise multifamily building with more than ten stories or other nonresidential buildings with more than three stories.

Type of Construction: ☑ New Construction ☐ Addition that increases roof area by more than 2,000 ft²
Solar-ready requirements do not apply to alterations or additions that increase the roof area by 2,000 ft² or less.

B. Solar-Ready
[Choose Path 01, 02, 03, 04, or 05 from below]

☑ **01. Allocated Solar Zone**
NRCC-SRA-02-E Minimum Solar Zone Area Worksheet is required to be submitted

Minimum Solar Zone Area (ft²)	144 - 288
This is quantity [G] from NRCC-SRA-02-E Minimum Solar Zone Area Worksheet	
Proposed Solar Zone Area (ft²)	Job Specific
This is quantity [S] from NRCC-SRA-02-E Minimum Solar Zone Area Worksheet	

The construction documents will indicate a 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. The construction documents will indicate a pathway for routing of plumbing from the solar zone to the water heating system.

A copy of the construction documents or a comparable document indicating information about the solar zone and interconnection pathways will be provided to the occupant.

If the designer certifies that all above requirements have been met and the Proposed Solar Zone Area meets or exceeds the Minimum Solar Zone Area, the building complies, otherwise it does not comply. ○ does not comply ◉ complies

☐ **02. Permanently Installed Solar Photovoltaic (PV) System**

Total Roof Area (ft²)* [A]	Minimum Nameplate DC Power Rating (watts) [B] = A x 1watt/ft²
	0

** New construction: report total roof area; Additions: report newly added roof area*

Will the proposed building have a permanently installed solar electric system that meets or exceeds the Minimum Nameplate DC Power Rating? ○ Yes ○ No

If yes, a *NRCI-SPV-01-E Certificate of Installation: Solar Photovoltaic System* documenting the installed system must be submitted as a condition of final approval.

Please check box to right if answered yes to all questions in this section. ☐ EXEMPT

☐ **03. Permanently Installed Solar Water Heating System**

Will the building have a permanently installed solar water heating system? ○ Yes ○ No

If yes, a *NRCI-STH-01-E Certificate of Installation: Solar Water Heating System* documenting the installed system must be submitted as condition of final approval.

Is the annual solar savings fraction equal to or greater than 0.2 in climate zones 1 through 9 or 0.35 in climate zones 10 through 16? ○ Yes ○ No

Annual Solar Savings Fraction	How was Annual Solar Savings Fraction Calculated?

Please check box to right if answered yes to all questions in this section. ☐ EXEMPT

STATE OF CALIFORNIA
SOLAR READY AREAS
CEC-NRCC-SRA-01-E (Revised 07/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-SRA-01-E
Solar Ready Areas		(Page 2 of 3)
Project Name: 2019 AMS 24x40 2GO PC	Date Prepared: 04/28/2020	

☐ **04. Smart Thermostats and Alternative Efficiency Measure**

Is the building a high-rise multifamily building with ten stories or fewer? ○ Yes ○ No

Will all thermostats in each dwelling unit comply with Reference Joint Appendix 5 (JA5) and will they be capable of receiving and responding to Demand Response signals prior to granting of an occupancy permit by the enforcing agency? ○ Yes ○ No

Will one of the following alternative efficiency measures be installed? ○ Yes ○ No
- A dishwasher that meets or exceeds the ENERGY STAR Program requirements with either a refrigerator that meets or exceeds the ENERGY STAR Program requirements or a whole house fan driven by an ECM motor, or
- A home automation system capable of, at a minimum, controlling the appliances and lighting of the dwelling and responding to Demand Response signals, or
- Alternative plumbing piping to permit the discharge from the clothes washer and all showers and bathtubs to be used for an irrigation system in compliance with the California Plumbing Code and any applicable local ordinances; or
- A rainwater-catchment system designed to comply with the California Plumbing Code and any applicable local ordinances, and that uses rainwater flowing from at least 65% of the available roof area.

Please check box to right if answered yes to all questions in this section. ☐ EXEMPT

☐ **05. Roof is Designed for Vehicle Traffic, Parking or for Heliport**

Will the roof be designed and approved to be used for vehicular traffic, parking or for a heliport. ○ Yes ○ No

Please provide building plan reference _____.

Please check box to right if answered yes to all questions in this section. ☐ EXEMPT

STATE OF CALIFORNIA
SOLAR READY AREAS
CEC-NRCC-SRA-01-E (Revised 07/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-SRA-01-E
Solar Ready Areas		(Page 3 of 3)
Project Name: 2019 AMS 24x40 2GO PC	Date Prepared: 04/28/2020	

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

Documentation Author Name: Jacob P Jones	Documentation Author Signature:
Company: AMS	Signature Date: 04/28/2020
Address: 787 Spreckels Ave.	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Manteca, CA 95336	Phone: 209-825-1921

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: Randall P. Cavanagh	Responsible Designer Signature:
Company: AMS	Date Signed: 04/28/2020
Address: 787 Spreckels Ave.	License: C12631
City/State/Zip: Manteca, CA 95336	Phone: 209-825-1921

STATE OF CALIFORNIA
SOLAR READY AREAS
CEC-NRCC-SRA-01-E (Revised 07/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-SRA-01-E
Solar Ready Areas		(Page 3 of 3)
Project Name: 2019 AMS 24x40 2GO PC	Date Prepared: 04/28/2020	

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

Documentation Author Name: Jacob P Jones	Documentation Author Signature:
Company: AMS	Signature Date: 04/28/2020
Address: 787 Spreckels Ave.	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Manteca, CA 95336	Phone: 209-825-1921

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: Randall P. Cavanagh	Responsible Designer Signature:
Company: AMS	Date Signed: 04/28/2020
Address: 787 Spreckels Ave.	License: C12631
City/State/Zip: Manteca, CA 95336	Phone: 209-825-1921

STATE OF CALIFORNIA
MINIMUM SOLAR ZONE AREA WORKSHEET
CEC-NRCC-SRA-02-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-SRA-02-E
Minimum Solar Zone Area Worksheet		Page 1 of 3
Project Name: 2019 AMS 24x40 2GP PC	Date Prepared: 04/28/2020	

Solar Zone Area (requirements in §110.10(b)1B)
This worksheet applies to hotel/motel occupancies and high-rise multifamily buildings with ten stories or fewer, and all other nonresidential buildings with three stories or fewer that comply with the solar zone requirement through Compliance Path A: Allocated Solar Zone in the NRCC-SRA-01-E Certificate of Compliance Solar Ready Areas.
The worksheet applies to all additions that increase the roof area by more than 2,000 ft².

A. General Information

Project Address: 787 SPRECKELS AVE. – MANTECA, CA 95336	
Total Roof Area: ☑ Less than or equal to 10,000 ft² ☐ Greater than 10,000 ft²	**Phase of Construction:** ☑ New Construction ☐ Addition that increases roof area by more than 2,000 ft²

Step 1: Determine Minimum Solar Zone Area
Calculate the minimum solar zone area using one of the two options provided below. Use option 2 if your roofs and overhangs are shaded.

Method 1: Minimum Solar Zone Area Based on Total Roof Area (requirements in 110.10(b)1B)

New Construction: Total roof area (ft²) Additions: Total roof area added to building (ft²)	A	960 - 1920
New Construction: Area of roof covered with skylights (ft²) Additions: Area of new roof area covered with skylights (ft²)	B	0
Minimum solar zone area	C = 0.15 x (A – B)	144 - 288

Note: For additions, if Act 2,000 ft² then addition does not need to comply with solar zone requirements

Method 2: Minimum Solar Zone Area Based on Potential Solar Zone (requirements in Exception 3 to 110.10(b)1B)
The enforcement agency may require additional documentation that describes how the reduced solar zone area was determined.

Method/Tool(s) used to quantify annual solar access: (for example, "Software X", "CAD Tool Y")		
Area of low-sloped roof (ratio of rise to run of 2:12 or less) where the annual solar access is 70% or greater.* (ft²)	D	
Area of steep-sloped roof (ratio of rise to run is greater than 2:12) that is oriented between 110° and 270° and annual solar access is 70% or greater.*(ft²)	E	
Minimum solar zone area	F = 0.5 x (D + E)	0
* For new construction consider total roof area; for additions consider newly added roof area		
Minimum solar zone area (either C or F) (ft²)	G	144 - 288

STATE OF CALIFORNIA
MINIMUM SOLAR ZONE AREA WORKSHEET
CEC-NRCC-SRA-02-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-SRA-02-E
Minimum Solar Zone Area Worksheet		Page 2 of 3
Project Name: 2019 AMS 24x40 2GP PC	Date Prepared: 04/28/2020	

Step 2: Allocated Solar Zone Subareas

Subarea ID	Building Plan Reference	Slope of Roof or Overhang	If Steep Slope, roof or overhang oriented between 110° and 270°	Subarea complies with Part 9 Title 24[4]	Plane containing the solar zone is free of obstructions[2]	Subarea is located the appropriate distance from obstructions[3]	Smallest dimension is greater than 5 feet	Subarea meet minimum area requirements[4]	Subarea Qualifies[5]	Area (ft²)
H	I	J	K	L	M	N	O	P	Q	R
		Low	NA	Yes	Yes	Yes	Yes	Yes	Yes	144
Add Row	Remove Last									
						Proposed Solar Zone Area (ft²) [sum of all qualifying subareas][S]				144

A. The solar zone shall comply with access, pathway, smoke ventilation, and spacing requirements as specified in Title 24, Part 9 or other Parts of Title 24 or in any requirements adopted by a local jurisdiction.
B. No obstructions, including but not limited to, vents, chimneys, architectural features, and roof mounted equipment, shall be located in the solar zone.
C. Solar zone must be located no closer than twice the distance, measured in the horizontal plane, of the height difference between the highest obstruction and the horizontal projection of the nearest point of the solar zone, measured in the vertical plane.
D. If the building roof area ≤ 10,000 ft² then minimum area is 80 ft². If building roof area > 10,000 ft² then minimum area is 160 ft².
E. Check "yes" if answers to questions in columns K through P are "yes".

Building complies with Minimum Solar Zone Area requirement is Proposed Solar Zone Area [S] is equal to or greater than the Minimum Solar Zone Area [G]	COMPLIES

STATE OF CALIFORNIA
MINIMUM SOLAR ZONE AREA WORKSHEET
CEC-NRCC-SRA-02-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-SRA-02-E
Minimum Solar Zone Area Worksheet		Page 3 of 3
Project Name: 2019 AMS 24x40 2GP PC	Date Prepared: 04/28/2020	

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

Documentation Author Name: Jacob P Jones	Documentation Author Signature:
Company: AMS	Signature Date: 04/28/2020
Address: 787 Spreckels Ave.	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Manteca, CA 95336	Phone: 209-825-1921

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: Randall P. Cavanagh	Responsible Designer Signature:
Company: AMS	Date Signed: 04/28/2020
Address: 787 Spreckels Ave.	License: C12631
City/State/Zip: Manteca, CA 95336	Phone: 209-825-1921

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
RANDALL PATRICK CAVANAGH
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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

REVISIONS
1
2
3
4

DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

SHEET TITLE:

ENERGY CALCULATIONS

SHEET NUMBER:

EN.9

D:\XXXX_Jobs\Active\2019\2019_AMS_24x40_2GO_PC\Drawings\PDF\EN2019_AMS_24x40_2GO_PC.dwg, 3/11/2021 8:58:39 AM, Plotted by: Alex Hernandez

STATE OF CALIFORNIA
WATER HEATING SYSTEM GENERAL INFORMATION
CEC-NRCC-PLB-01-E (Revised 01/18) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-PLB-01-E
Water Heating System General Information	(Page 2 of 2)
Project Name: AMS Modular PCs - Water Heater Prescriptive Report	Date Prepared: 11/15/2018

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Hans Marsman, LEED AP, CEA	Documentation Author Signature:	Digitally signed by Hans Marsman Date: 2018.11.15 08:13:11 -08'00'
Company:	Brunmsit Energy Associates, Inc	Signature Date:	11/15/2018
Address:	777 South Highway 101, Suite 203	CEA / HERS Certification Identification (if applicable):	
City/State/Zip:	Solana Beach, CA 92075	Phone:	619.531.1126 x105

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:	Randall P Cavannagh	Responsible Designer Signature:	Randall Cavanagh
Company:	American Modular Systems | Gen7 C	Date Signed:	04/28/2020
Address:	787 Spreckels Avenue	License:	C12631
City/State/Zip:	Manteca, CA 95336	Phone:	209.825.1921

STATE OF CALIFORNIA
WATER HEATING SYSTEM GENERAL INFORMATION
CEC-NRCC-PLB-01-E (Revised 01/18) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-PLB-01-E
Water Heating System General Information	(Page 1 of 2)
Project Name: AMS Modular PCs - Water Heater Prescriptive Report	Date Prepared: 11/15/2018

A. GENERAL INFORMATION/SYSTEM INFORMATION

01	Water Heater System Name:	Rheem
02	Water Heater System Configuration:	Electric Resistance Storage
03	Water Heater System Type:	Electric Resistance Storage
04	Building Type:	School (Classrooms with Support spaces)
05	Total Number of Water Heaters in Systems:	1
06	Central DHW Distribution Type:	n/a
07	Dwelling Unit DHW Distribution Type:	n/a

B. WATER HEATER INFORMATION

Each water heater type requires a separate compliance document.

01	Water Heater Type:	Small Electric Storage
02	Fuel Type:	Electric
03	Manufacture Name:	Rheem
04	Model Number:	82VP30
05	Number of Identical Water Heaters:	1
06	Installed Water Heater System Efficiency:	0.93
07	Required Minimum Efficiency:	0.92 (0.960 – (0.00132 × V))
08	Standby Loss Percent or Standby Loss Total:	n/a (only for large water heaters)
09	Rated Input:	15,359 Btu/h
10	Pilot Energy:	n/a
11	Water Heater Tank Storage Volume:	30 gal
12	Exterior Insulation on Water Heater:	n/a
13	Volume of Supplemental Storage:	n/a
14	Internal Insulation on Supplemental Storage:	n/a
15	Exterior Insulation on Supplemental Storage:	n/a

C. PLUMBING COMPLIANCE FORMS & WORKSHEETS

Check box if worksheet is included.

For detailed instructions on the use of this and all Energy Standards compliance documents, refer to the 2016 Nonresidential Manual
Note: The Enforcement Agency may require all compliance documents to be incorporated onto the building plans.

YES	NO	Doc/Worksheet #	Title
☒	☐	NRCC-PLB-01-E	Certificate of Compliance, Declaration. Required on plans for all submittals.
☒	☐	NRCI-PLB-01-E	Certificate of Installation. Required on plans for all submittals.
☐	☐	NRCI-PLB-02-E	Certificate of Installation, required on central systems in high-rise residential, hotel/motel application.
☐	☐	NRCI-PLB-03-E	Certificate of Installation, required on single dwelling unit systems in high-rise residential, hotel/motel application.
☐	☐	NRCI-PLB-21-H	Certificate of Installation, required on HERS verified central systems in high-rise residential, hotel/motel application.
☐	☐	NRCI-PLB-22-H	Certificate of Installation, required on HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.
☐	☐	NRCI-STH-01-E	Certificate of Installation, required on any solar water heating

Rheem — Residential Electric: Point-of-Use Water Heaters

"The new degree of comfort."

Point-of-use electric water heaters feature a space-saving design for installation in limited spaces

Efficiency
- .93 EF for 30-gallon model

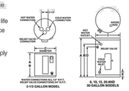
Features
- High efficiency heating element
- Over-temperature protector cuts off power in excess temperature situations
- Automatic thermostat keeps water at desired temperature
- Wall bracket for easy wall mount installations and corrosion resistant 1/4 turn drain valve included with 2.5 gallon model

Plus…
- Temperature and pressure relief valve.
- Exclusive Rheemglas® tank lining resists corrosion and prolongs tank life
- Meets or exceeds National Appliance Energy Conservation Act (NAECA) requirements
- These units are U.L. listed and comply with Underwriter's Laboratories Specifications 174

Warranty
- 6-Year limited tank and parts warranty.*

*See Residential Warranty Certificate for complete information

Units meet or exceed ANSI requirements and have been tested according to D.O.E. procedures. Units meet or exceed the energy efficiency requirements of NAECA, ASHRAE standard 90, ICC Code and all state energy efficiency performance criteria.



Point-of-Use
2.5, 6, 10, 15, 20 and 30-Gallon Capacities
120 Volt AC
2-Wire Single Phase
Electric

DESCRIPTION		ROUGHING IN DIMENSIONS (SHOWN IN INCHES)					ENERGY INFORMATION	
CAP. (GAL.)	MODEL NUMBER	HEIGHT A	HT. TO HOT WATER OUTLET B	DIAMETER C	HT. TO COLD WATER INLET D	HT. TO COLD WATER INLET E	APPROX. SHIP WT. (LBS.)	ENERGY FACTOR	AVERAGE ANNUAL OPER. COST
2.5	81VP25	14	14	9-3/4	–	22	N/A	N/A	N/A
6	81VP65	15-1/4	12-1/2	15-3/4	11-1/2	4-1/4	38	N/A	N/A
10	81VP105	23	20-1/2	15-3/4	19-1/2	4-1/4	46	N/A	N/A
15	81VP155	24-1/4	22	17-3/4	21	4-1/2	54	N/A	N/A
20	81VP205	29-1/4	22-3/4	19-3/4	21-3/4	5	69	N/A	N/A
30	82VP30-1*	30	23	21-3/4	23	2-3/4	91	0.93	$222

*For double-element, substitute "-1" suffix for "-1". Not available in 120 volt. Available with 2-wire (single-phase) outlet only. (6000 watt max.).

- **2.5 gallon model:** 1/2" NPT, inlet and outlet. Relief valve connection 3/4". Available with 120 or 240 volt AC single phase only, 100v (1440w) 240v (1500w). Power cord supplied with 120 volt models only.
- **6 through 20 gallon models:** 3/4" NPT, outlet, inlet, anode rod. T & P valve connections. Not available with 2-phase wiring. Power cord supplied with models 6, 10, 15, 20 and 30 gallon only.
  Special wiring options – a limited number of wiring options are available. Consult factory for prices and availability.

CONSTRUCTION DETAILS: The cold water enters the tank a few inches from the bottom. Both hot and cold water lines may be connected directly to the water heater without special nipples or ties. The relief valve empty screws into the opening provided.

Energy Factor and Average Annual Operating Costs based on D.O.E. (Department of Energy) test procedures. D.O.E. national average fuel rate electricity 10.65¢/KWH.

In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice.

Rheem Water Heating • 101 Bell Road
Montgomery, Alabama 36117-4505 • www.rheem.com

INTEGRATED HOME COMFORT

PH0202 M-U.S.A. 50 YE SP F2004 NO. 101 6 Rev. 03

```
PROPOSED FRAMED ENVELOPE ASSEMBLY                    FORM-3R / ENV-3
for Residential & Nonresidential Buildings - EZFRAME  Version 2.0
+-------------------------------------------------------------------+
|Project Name: AMS                                                  |
+-------------------------------------------------------------------+

COMPONENT DESCRIPTION
+-------------------------------------------------------------------+
                                    Assembly Name      : Roof
                                    Assembly Type      : Roof
                                    Framing Material   : Metal
                                    Framing Spacing    : 48"
                                    Framing Size
                                          Actual depth :  3.500"
                                          Actual width :  3.000"
                                    Cavity Insulation
                                                R-value : 19.0

                                          Knock-out (%) :  0.0
                                          Web Thickness : 0.1406"
                                    Insulation Tape R-value
                                          Interior flange :  1.0
          SKETCH OF ASSEMBLY              Exterior flange :  0.0
+-------------------------------------------------------------------+
CONSTRUCTION COMPONENTS
+-------------------------------------------------------------------+
          Description          R-value  Thickness  Int/Ext   Air/
Exterior Components:                                  Ins     Metal
  Outside surface air film      0.17       N/A        N/A      N/A
  1. Steel Siding               0.00      0.06"       NO       YES


Interior Components:
  1. 3/8" Acoustic Tile         0.95      0.38"       NO       NO

  Inside surface air film       0.62       N/A        N/A      N/A
+-------------------------------------------------------------------+
RESULTS FOR: AMS
+-------------------------------------------------------------------+
              Total R-value :  14.27      h.ft2.F/Btu

              Total U-value :  0.070      Btu/h.ft2.F
+-------------------------------------------------------------------+
COMMENTS
+-------------------------------------------------------------------+
|                                                                   |
+-------------------------------------------------------------------+
```

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — RANDALL PATRICK CAVANAGH — No. C12631 — Ren. 8-31-23 — STATE OF CALIFORNIA

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

REVISIONS

DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

SHEET TITLE:

ENERGY CALCULATIONS

SHEET NUMBER:

EN.10

April 30, 2020

DSA
Division of the State Architect
5100 Q street
Sacramento, CA 95811

This letter is in regards to the 2019 Energy/CALGreen Code DSA Plan Review, **2019 CBC - AMS PC Submissions.**

American Modular Systems (AMS) shall conform their on-site construction practices to comply with the required construction waste management practices illustrated in the Part 11, Title 24 California Green Building Code (CDC). The intent of this letter is to inform, illustrate, and demonstrate that AMS and its buildings comply to the following applicable code section illustrated below:

2019 California Green Building Code (CGC) – (Part 11, Title 24, CCR)

- ***Section 5.408.1 – Construction Waste Management***
  If the construction waste management takes place in the factory, provide program specifics to CALGreen plan reviewer which identifies:
  1. Percentage of waste to be salvaged or recycled with a minimum of 65% of nonhazardous construction waste.
  2. Procedures for waste management reporting.
  3. Type of waste to be diverted.
  4. If sorted or bulk mixed
  5. If handled by a waste management company or a diversion facility.
  6. If calculated by weight or volume.

AMS shall comply to this section by the following procedure & practice:

1. AMS shall be responsible for the organization and management of construction waste on the factory site, including the responsibility of recycling waste that is a minimum of 65% of non-hazardous construction waste.
2. AMS shall order rental waste & recycling bin(s) from a licensed and authorized waste management company from the City of Manteca, or equivalent in that matter. Upon approval, the bin(s) shall be dropped off on factory site by hired waste management company. As the bin(s) reach full capacity of construction waste, AMS schedules a pick-up for the bin(s) and is given invoice receipts from the waste management company.
3. AMS shall station the bin(s) whereas needed for AMS plant workers to salvage and/or recycle construction waste during the work day. **Each bin is labeled to help sort the different types of construction waste (e.g. Wood, Scrap Metal, Glass, Leather).**
4. AMS plant workers and management are responsible for **sorting** each bin with the correct types of construction waste listed above.
5. The invoice provided by the **hired waste management company** provides a description of the bin(s) and additional information.
6. Invoice receipts provides calculated **weights** of each bin & pricing of rental usage.

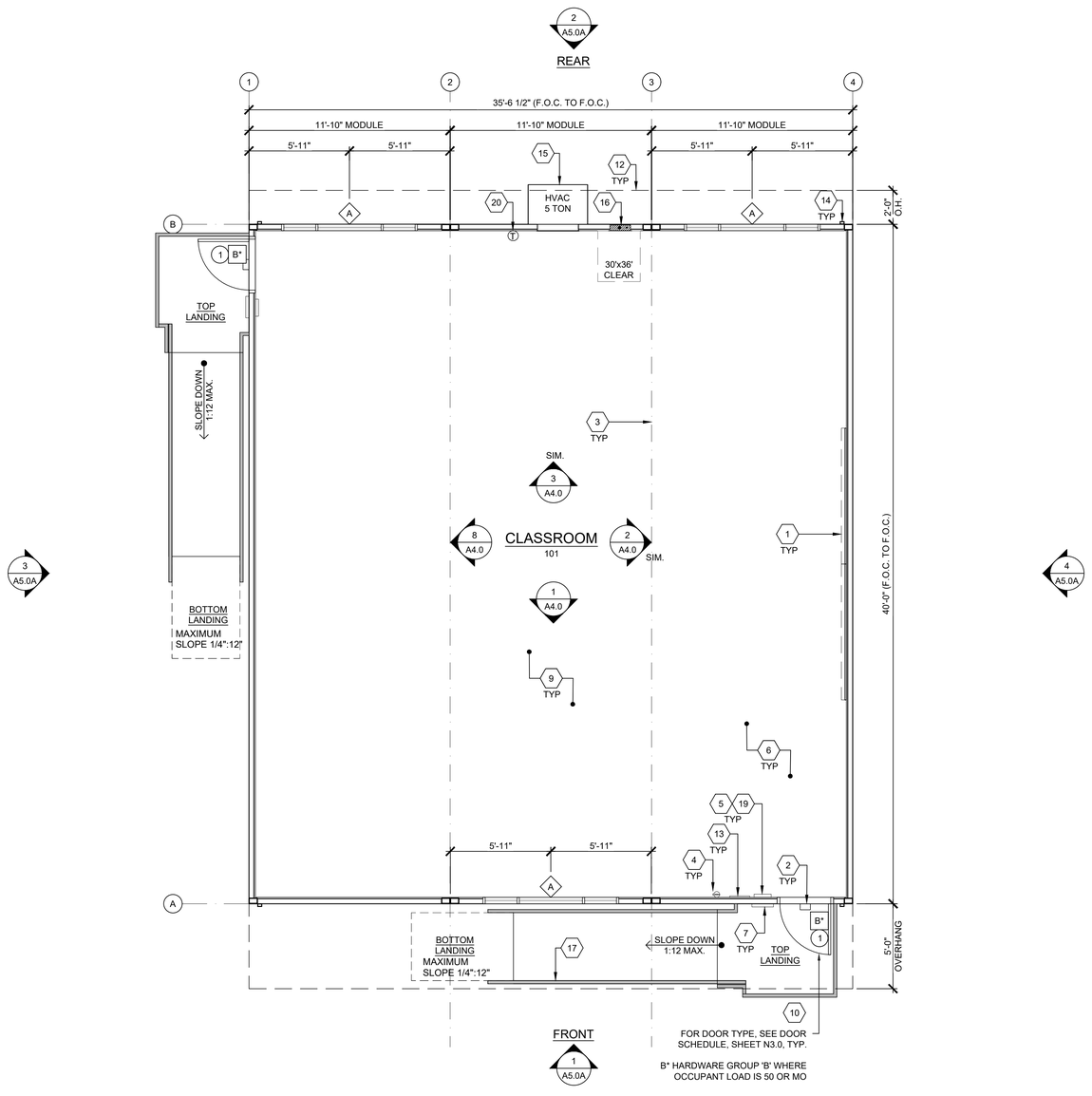
The PC plans and specifications will not reflect and show these procedures for any project.
Any questions regarding the construction waste management procedures,
please feel free to contact AMS's office.

Thank you,

Randall P. Cavanagh

LICENSED ARCHITECT — RANDALL PATRICK CAVANAGH — No. C12631 — Ren. 8-31-23 — STATE OF CALIFORNIA

02-XXXX_ 2h+8+0+0+7fd8d0fc8e1f5c1f5c1f5c



SERIAL NUMBERS:
23-100-023, 23-100-024, 23-100-027, 23-100-028, 23-100-031,
23-100-032, 23-100-035, 23-100-036, 23-100-039, 23-100-040

TYPICAL FLOOR PLAN - 'A'

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

1. (2) 8'X4' MARKER BOARDS - SEE SHEET A4.0
2. NOT USED
3. TYP MOD LINE
4. FIRE EXTINGUISHER - TOP OF HANDLE @ +48" A.F.F.
   4" MAX PROTRUSION FROM WALL IF BOTTOM OF FIRE EXTINGUISHER IS ABOVE 27" A.F.F.
5. TACTILE EXIT SIGN PER DETAIL 10/N4.0 (BY SITE CONTRACTOR)
6. EGRESS AREA
7. ROOM SIGNAGE AND I.S.A. PER DETAILS 5&9/N4.0 (BY SITE CONTRACTOR)
8. NOT USED
9. FLOORING (TO BE PROVIDED BY SITE CONTRACTOR)
10. EGRESS DOOR
11. NON-ABSORBENT FLOOR AREA (2'-0" MIN. IN ALL DIRECTIONS @ ALL ENTRY DOOR) CHANGES IN LEVEL ARE NOT PERMITTED IN DOOR MANEUVERING CLEARANCE UNLESS NON-ABSORBENT MATERIAL IS FLUSH WITH CARPET (11B-404.2.4).
12. OVERHANG
13. OCCUPANT LOAD SIGN PER DETAIL 11/N4.0 (BY SITE CONTRACTOR)
14. DOWNSPOUT - DISCHARGE TO SPLASH BLOCK (U.O.N.)
15. HVAC - SEE MECHANICAL
16. ELECTRICAL PANEL
17. TYPICAL RAMP REFER TO DETAIL 16/-.
18. FLOOR LIVE LOAD SIGN PER 2019 CBC SECTION 106.1. *(FLOOR LIVE LOAD SIGN IS REQUIRED ONLY FOR COMMERCIAL OR INSTITUTIONAL BUILDINGS DESIGNED WITH LIVE LOADS EXCEEDING 50 PSF) WHERE 150 PSF LIVE LOAD IS SPECIFIED, THE TEXT "LONG TERM STORAGE NOT PERMITTED" SHALL ALSO BE INCLUDED ON THE SIGN.*
19. ASSISTIVE LISTENING (AL) SIGN POSTED IN PROMINENT PLACE AT OR NEAR THE ENTRANCE PER 17/N4.0. (BY SITE CONTRACTOR).
20. THERMOSTAT TOP OF BOX @ 48" A.F.F.

KEY NOTES

1. ~~REFER TO SHEETS N5.0 FOR POSSIBLE ADDITIONAL FLOOR PLAN CONFIGURATIONS.~~
2. ~~OPTIONAL INTERIOR WALLS MAY OCCUR THROUGHOUT THE BUILDING AS CONSTRUCTED PER SHEET S8.1. THE PC TITLE 24 HAS BEEN RUN FOR THE WORST CASE ENVELOPE BASED ON AREA.~~
3. PANIC HARDWARE COMPLYING WITH C.B.C. 1010.1.10 IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER.
4. IF OCCUPANCY LOAD EXCEEDS 50, PROVIDE A SECOND EXIT DOOR, PER CBC TABLE 1006.2.1.
5. PROVIDE AN OCCUPANT LOAD SIGN (BY OTHERS) IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT, PER C.B.C. SECTION 1004.9.
6. ALL PRIMARY EXTERIOR DOOR ENTRIES SHALL BE COVERED TO PREVENT WATER INTRUSION BY USING NONABSORBENT FLOOR AND WALL FINISHES WITHIN AT LEAST 2 FEET AROUND AND PERPENDICULAR TO OPENING, PER CALGREEN, SECTION 5.407.2.2.1.
7. PRIMARY EXTERIOR DOOR ENTRIES SHALL HAVE AT LEAST ONE OF THE FOLLOWING:
   - INSTALLED AWNING AT LEAST 4 FEET IN DEPTH (BY OTHERS).
   - ROOF OVERHANG AT LEAST 4 FEET IN DEPTH.
   - DOOR RECESSED AT LEAST 4 FEET.
   - OTHER METHODS WHICH PROVIDE EQUIVALENT PROTECTION (BY OTHERS).
8. WINDOW PLACEMENT & SIZE MAY VARY AS THE PC TITLE 24 HAS BEEN RUN FOR THE WORST CASE ENVELOPE PROVIDED THAT THE MAXIMUM WINDOW AREA IS 240 SQ. FT. FOR A DOUBLE-WIDE ROOM AND 168 SQ. FT. FOR A TRIPLE WIDE ROOM. JUSTIFICATION OF LARGER AREAS MAY BE BASED ON RATIO AND INTERPOLATION.

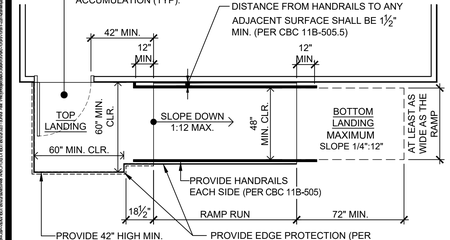
SITE NOTE

3/16:12 (1%) MINIMUM TO 1/4:12 (2%) MAXIMUM GRADE FROM FACE OF BUILDING MUST BE ADHERED TO FOR WATER RUN-OFF. PONDING MAY OCCUR AROUND THE PERIMETER OF THE BUILDING.

SHEET NOTES

- (X) = KEY NOTE - SEE KEY NOTES ABOVE
- (X) = DOOR TYPE - SEE SCHEDULE, SHEET N3.0
- [X] = DOOR HARDWARE - SEE HARDWARE SCHEDULE, SHEET N3.0
- X = WINDOW TYPE - SEE SCHEDULE, SHEET N3.0

SYMBOL LEGEND



**REFER TO SHEET S10.0 FOR FOR ADDITIONAL RAMP SIZES AND CONSTRUCTION DETAILS.*

TYPICAL RAMP PLAN

SCALE: 1/4" = 1'-0" | 16

BUILDING SIZE SCHEDULE			
BUILDING SIZE (FT)	TOTAL # OF 12'-0" WIDE MODULES	TOTAL # OF CENTER MODULES	TOTAL FNDN WIDTH
☐ 24'x40'	2	0	23'-8"
☒ 36'x40'	3	1	35'-6"
☐ 48'x40'	4	2	47'-4"

BUILDING SCHEDULE | 17

ENERGY CONTROLS

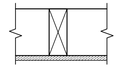
1. DEMAND RESPONSE CONTROLS:
   ONLY REQUIRED IN BUILDINGS LARGER THAN 10,000 S.F., THEREFORE, NOT REQUIRED FOR THIS PC.
2. AUTOMATIC DAYLIGHTING CONTROLS:
   NOT REQUIRED IN ROOMS WHERE COMBINED INSTALLED LIGHTING POWER IN COMBINED SKYLIT & PRIMARY DAYLIT ZONES ARE <120 WATTS. INSTALLED WATTAGE IN PRIMARY SIDELIT DAY LIT ZONE IS 90 WATTS (2x 45w, AS SHOWN ON SHEET E1.0). THEREFORE, AUTOMATIC DAYLIGHTING CONTROLS ARE ONLY REQUIRED WHEN "SOLATUBES" ARE INSTALLED. SEE A1.1
3. ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) CONNECTION:
   PER TITLE 24 CODE, "AN EMCS MAY BE INSTALLED TO COMPLY WITH THE REQUIREMENTS OF ONE OR MORE LIGHTING CONTROLS IF IT MEETS THE MINIMUM REQUIREMENTS". PC MAY CONTAIN OCCUPANCY SENSORS AND PHOTOCELL CONTROL LIGHTING, IN THAT CASE, AN EMCS IS NOT REQUIRED FOR THIS PC.
4. SOLAR-READY ZONE REQUIREMENTS:
   REQUIREMENTS & TABLE CAN BE FOUND ON SHEET A2.0

NOTE:
ANY MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED IN THE BASE PC.

ENERGY NOTES

ACOUSTIC CONTROLS

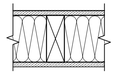
1. WHEN THE PRE-CHECK (PC) BUILDING IS SITE ADAPTED, THE BUILDING AND SITE FEATURES SHALL COMPLY WITH THE CALGREEN CODE, SECTION 5.507.4, FOR THE SPECIFIC SITE LOCATION.
2. MINIMUM WALL ASSEMBLIES:
   WALL ASSEMBLIES SHALL BE CONSTRUCTED PER DETAIL SHEETS A5.1, A5.3, & A8.0, WITH EITHER 2x4 WOOD STUDS.
   MINIMUM STC RATINGS LISTED BELOW ARE PER THE CATALOG OF STC & IIC RATINGS FOR WALL AND FLOOR/CEILING ASSEMBLIES, PRODUCED BY THE OFFICE OF NOISE CONTROL, CA DEPARTMENT OF HEALTH SERVICES.



(1) LAYER 1/2" GYPSUM BOARD
SECURED TO MIN. 2x4 STUDS @ 16"
O.C. MAX.

STC=28
(CATALOG SECTION 1.2.1.5.4.1)
TEST REF.: NATIONAL RESEARCH
COUNCIL OF CANADA - NRC #66

3. IN THE EVENT THAT A PC CLASSROOM IS DESIGNED TO CONNECT TO ANOTHER PC CLASSROOM OR RESTROOM, INTERIOR SOUND TRANSMISSION IN THE INTERIOR ADJOINING WALL AND FLOOR/CEILING SHALL MEET THE MINIMUM REQUIREMENT OF A STC OF 40, PER CALGREEN CODE SECTION 507.4.3. (EXAMPLES OF QUALIFYING ASSEMBLIES SHOWN BELOW).



(2) LAYER 5/8" GYPSUM BOARD
SECURED TO MIN. 2x4 STUDS @ 24"
O.C. MAX. w/ 3½" THK. BATT
INSULATION

STC=40
TEST REF.: AUDIO ALLOY L.L.C TEST
NUMBER: OL-05-1003

4. MINIMUM WINDOW & DOOR RATINGS:
   ALL WINDOWS AND DOORS SPECIFIED ON THE SCHEDULES FOUND ON SHEET N3.0 OF THIS PACKAGE SHALL MEET A MINIMUM STC RATING OF 27.

ACOUSTIC NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)
2GO®

SITE SPECIFIC PROJECT NAME

MMM
(20) BUILDINGS

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
PATRICK C. HOWE
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

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

REVISIONS

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	06/01/2023
PROJECT NO:	1791-23

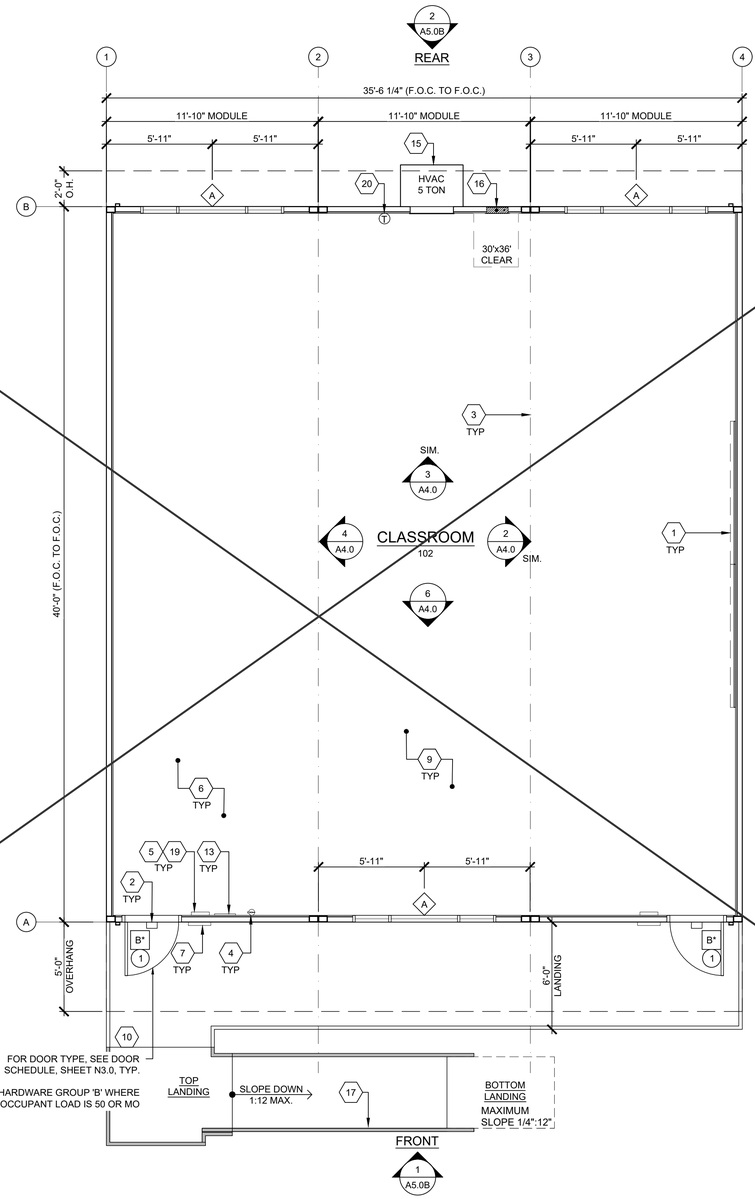
SHEET TITLE:

TYPICAL
FLOOR PLAN

SHEET NUMBER:

A1.0A

G:\XXXXX\A_jbs4kqRATB\SIGN-Off-SIGNED BSHEAR_INC\TEST\SIGNED BSHEAR_INC\TEST\SIGNED BSHEAR_INC\SIGNED\SIGNED\SIGNED



SERIAL NUMBERS:
23-100-021, 23-100-022, 23-100-025, 23-100-026, 23-100-029,
23-100-030, 23-100-033, 23-100-034, 23-100-037, 23-100-038

TYPICAL FLOOR PLAN - 'B'

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

1. (2) 8'X4' MARKER BOARDS - SEE SHEET A4.0
2. NOT USED
3. TYP MOD LINE
4. FIRE EXTINGUISHER - TOP OF HANDLE @ +48" A.F.F.
   4" MAX PROTRUSION FROM WALL IF BOTTOM OF FIRE EXTINGUISHER IS ABOVE 27" A.F.F.
5. TACTILE EXIT SIGN PER DETAIL 10/N4.0 (BY SITE CONTRACTOR)
6. EGRESS AREA
7. ROOM SIGNAGE AND I.S.A. PER DETAILS 5&9/N4.0 (BY SITE CONTRACTOR)
8. NOT USED
9. FLOORING (TO BE PROVIDED BY SITE CONTRACTOR)
10. EGRESS DOOR
11. NON-ABSORBENT FLOOR AREA (2'-0" MIN. IN ALL DIRECTIONS @ ALL ENTRY DOOR) CHANGES IN LEVEL ARE NOT PERMITTED IN DOOR MANEUVERING CLEARANCE UNLESS NON-ABSORBENT MATERIAL IS FLUSH WITH CARPET (11B-404.2.4).
12. OVERHANG
13. OCCUPANT LOAD SIGN PER DETAIL 11/N4.0 (BY SITE CONTRACTOR)
14. DOWNSPOUT - DISCHARGE TO SPLASH BLOCK (U.O.N.)
15. HVAC - SEE MECHANICAL
16. ELECTRICAL PANEL
17. TYPICAL RAMP REFER TO DETAIL 16/-.
18. FLOOR LIVE LOAD SIGN PER 2019 CBC SECTION 106.1. *(FLOOR LIVE LOAD SIGN IS REQUIRED ONLY FOR COMMERCIAL OR INSTITUTIONAL BUILDINGS DESIGNED WITH LIVE LOADS EXCEEDING 50 PSF) WHERE 150 PSF LIVE LOAD IS SPECIFIED, THE TEXT "LONG TERM STORAGE NOT PERMITTED" SHALL ALSO BE INCLUDED ON THE SIGN.*
19. ASSISTIVE LISTENING (AL) SIGN POSTED IN PROMINENT PLACE AT OR NEAR THE ENTRANCE PER 17/N4.0. (BY SITE CONTRACTOR).
20. THERMOSTAT TOP OF BOX @ 48" A.F.F.

KEY NOTES

1. ~~REFER TO SHEETS N5.0 FOR POSSIBLE ADDITIONAL FLOOR PLAN CONFIGURATIONS.~~
2. ~~OPTIONAL INTERIOR WALLS MAY OCCUR THROUGHOUT THE BUILDING AS CONSTRUCTED PER SHEET S8.1. THE PC TITLE 24 HAS BEEN RUN FOR THE WORST CASE ENVELOPE BASED ON AREA.~~
3. PANIC HARDWARE COMPLYING WITH C.B.C. 1010.1.10 IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER.
4. IF OCCUPANCY LOAD EXCEEDS 50, PROVIDE A SECOND EXIT DOOR, PER CBC TABLE 1006.2.1.
5. PROVIDE AN OCCUPANT LOAD SIGN (BY OTHERS) IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT, PER C.B.C. SECTION 1004.9.
6. ALL PRIMARY EXTERIOR DOOR ENTRIES SHALL BE COVERED TO PREVENT WATER INTRUSION BY USING NONABSORBENT FLOOR AND WALL FINISHES WITHIN AT LEAST 2 FEET AROUND AND PERPENDICULAR TO OPENING, PER CALGREEN, SECTION 5.407.2.2.1.
7. PRIMARY EXTERIOR DOOR ENTRIES SHALL HAVE AT LEAST ONE OF THE FOLLOWING:
   - INSTALLED AWNING AT LEAST 4 FEET IN DEPTH (BY OTHERS).
   - ROOF OVERHANG AT LEAST 4 FEET IN DEPTH.
   - DOOR RECESSED AT LEAST 4 FEET.
   - OTHER METHODS WHICH PROVIDE EQUIVALENT PROTECTION (BY OTHERS).
8. WINDOW PLACEMENT & SIZE MAY VARY AS THE PC TITLE 24 HAS BEEN RUN FOR THE WORST CASE ENVELOPE PROVIDED THAT THE MAXIMUM WINDOW AREA IS 240 SQ. FT. FOR A DOUBLE-WIDE ROOM AND 168 SQ. FT. FOR A TRIPLE WIDE ROOM. JUSTIFICATION OF LARGER AREAS MAY BE BASED ON RATIO AND INTERPOLATION.

SITE NOTE

3/16:12 (1%) MINIMUM TO 1/4:12 (2%) MAXIMUM GRADE FROM FACE OF BUILDING MUST BE ADHERED TO FOR WATER RUN-OFF. PONDING MAY OCCUR AROUND THE PERIMETER OF THE BUILDING.

SHEET NOTES

- (X) = KEY NOTE - SEE KEY NOTES ABOVE
- (X) = DOOR TYPE - SEE SCHEDULE, SHEET N3.0
- [X] = DOOR HARDWARE - SEE HARDWARE SCHEDULE, SHEET N3.0
- (X) = WINDOW TYPE - SEE SCHEDULE, SHEET N3.0

SYMBOL LEGEND

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)
2GO®

SITE SPECIFIC PROJECT NAME

MMM
(20) BUILDINGS

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
ANDREW PATRICK O'HARA
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

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

REVISIONS

1	
2	
3	
4	

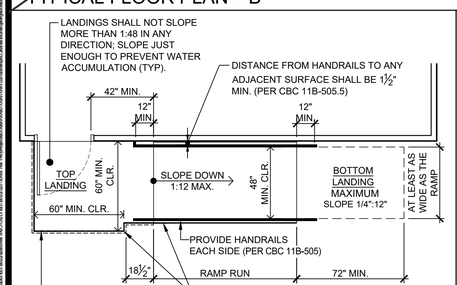
DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	06/01/2023
PROJECT NO:	1791-23

SHEET TITLE:

TYPICAL
FLOOR PLAN

SHEET NUMBER:

A1.0B



**REFER TO SHEET S10.0 FOR FOR ADDITIONAL RAMP SIZES AND CONSTRUCTION DETAILS.*

TYPICAL RAMP PLAN

SCALE: 1/4" = 1'-0" | 16

BUILDING SIZE SCHEDULE			
BUILDING SIZE (FT)	TOTAL # OF 12'-0" WIDE MODULES	TOTAL # OF CENTER MODULES	TOTAL FNDN WIDTH
☐ 24'x40'	2	0	23'-8"
☒ 36'x40'	3	1	35'-6"
☐ 48'x40'	4	2	47'-4"

BUILDING SCHEDULE | 17

ENERGY CONTROLS

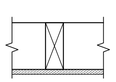
1. DEMAND RESPONSE CONTROLS:
   ONLY REQUIRED IN BUILDINGS LARGER THAN 10,000 S.F., THEREFORE, NOT REQUIRED FOR THIS PC.
2. AUTOMATIC DAYLIGHTING CONTROLS:
   NOT REQUIRED IN ROOMS WHERE COMBINED INSTALLED LIGHTING POWER IN COMBINED SKYLIT & PRIMARY DAYLIT ZONES ARE <120 WATTS. INSTALLED WATTAGE IN PRIMARY SIDELIT DAY LIT ZONE IS 90 WATTS (2x 45w, AS SHOWN ON SHEET E1.0). THEREFORE, AUTOMATIC DAYLIGHTING CONTROLS ARE ONLY REQUIRED WHEN "SOLATUBES" ARE INSTALLED. SEE A1.1
3. ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) CONNECTION:
   PER TITLE 24 CODE, "AN EMCS MAY BE INSTALLED TO COMPLY WITH THE REQUIREMENTS OF ONE OR MORE LIGHTING CONTROLS IF IT MEETS THE MINIMUM REQUIREMENTS". PC MAY CONTAIN OCCUPANCY SENSORS AND PHOTOCELL CONTROL LIGHTING, IN THAT CASE, AN EMCS IS NOT REQUIRED FOR THIS PC.
4. SOLAR-READY ZONE REQUIREMENTS:
   REQUIREMENTS & TABLE CAN BE FOUND ON SHEET A2.0

NOTE:
ANY MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED IN THE BASE PC.

ENERGY NOTES

ACOUSTIC CONTROLS

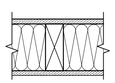
1. WHEN THE PRE-CHECK (PC) BUILDING IS SITE ADAPTED, THE BUILDING AND SITE FEATURES SHALL COMPLY WITH THE CALGREEN CODE, SECTION 5.507.4, FOR THE SPECIFIC SITE LOCATION.
2. MINIMUM WALL ASSEMBLIES:
   WALL ASSEMBLIES SHALL BE CONSTRUCTED PER DETAIL SHEETS A5.1, A5.3, & A8.0, WITH EITHER 2x4 WOOD STUDS.
   MINIMUM STC RATINGS LISTED BELOW ARE PER THE CATALOG OF STC & IIC RATINGS FOR WALL AND FLOOR/CEILING ASSEMBLIES, PRODUCED BY THE OFFICE OF NOISE CONTROL, CA DEPARTMENT OF HEALTH SERVICES.



(1) LAYER 1/2" GYPSUM BOARD
SECURED TO MIN. 2x4 STUDS @ 16"
O.C. MAX.

STC=28
(CATALOG SECTION 1.2.1.5.4.1)
TEST REF.: NATIONAL RESEARCH
COUNCIL OF CANADA - NRC #66

3. IN THE EVENT THAT A PC CLASSROOM IS DESIGNED TO CONNECT TO ANOTHER PC CLASSROOM OR RESTROOM, INTERIOR SOUND TRANSMISSION IN THE INTERIOR ADJOINING WALL AND FLOOR/CEILING SHALL MEET THE MINIMUM REQUIREMENT OF A STC OF 40, PER CALGREEN CODE SECTION 507.4.3. (EXAMPLES OF QUALIFYING ASSEMBLIES SHOWN BELOW).



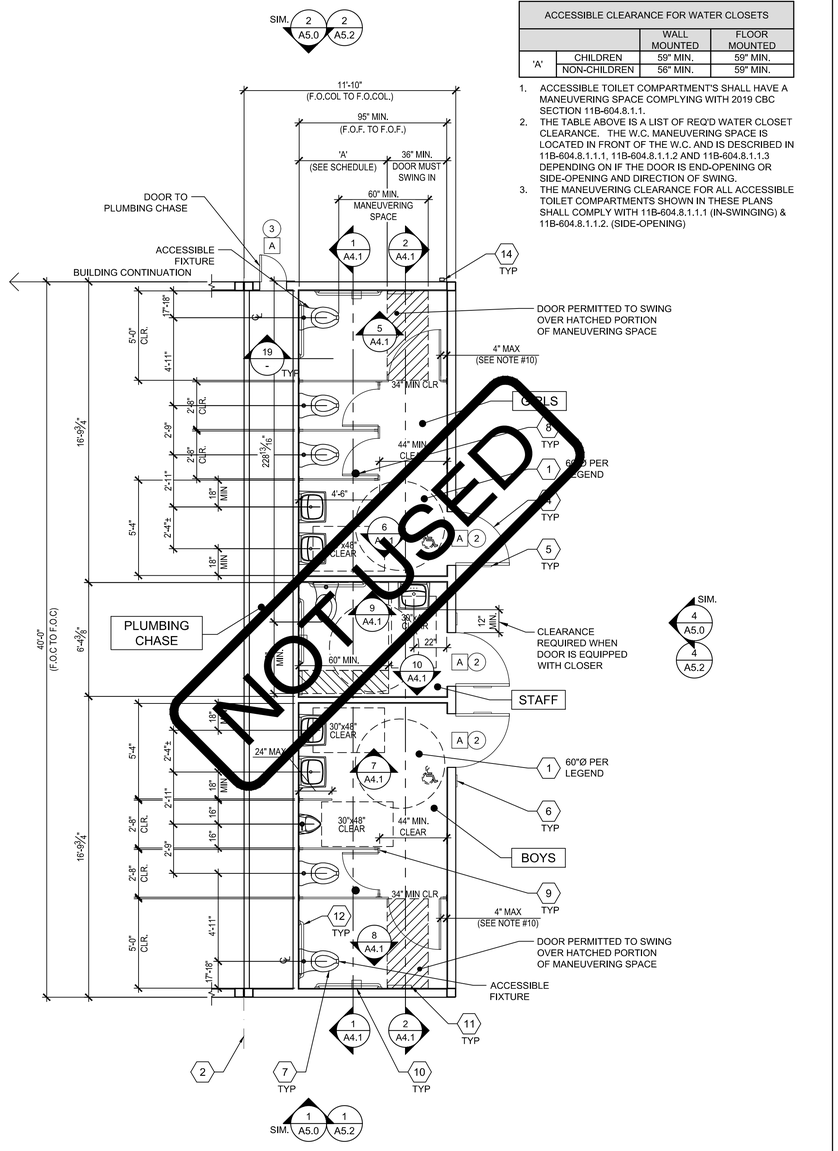
(2) LAYER 5/8" GYPSUM BOARD
SECURED TO MIN. 2x4 STUDS @ 24"
O.C. MAX. w/ 3½" THK. BATT
INSULATION

STC=40
TEST REF.: AUDIO ALLOY L.L.C TEST
NUMBER: OL-05-1003

4. MINIMUM WINDOW & DOOR RATINGS:
   ALL WINDOWS AND DOORS SPECIFIED ON THE SCHEDULES FOUND ON SHEET N3.0 OF THIS PACKAGE SHALL MEET A MINIMUM STC RATING OF 27.

ACOUSTIC NOTES

QL:XXXXXX-[AHJ#]-[ENGR#]-[SLAB ID]-[ROOF#]-[MAP#]-[PLOT#]-[SHEET#]-[REV#]-[SHEET#]-[REV#]-[SHEET#]-[REV



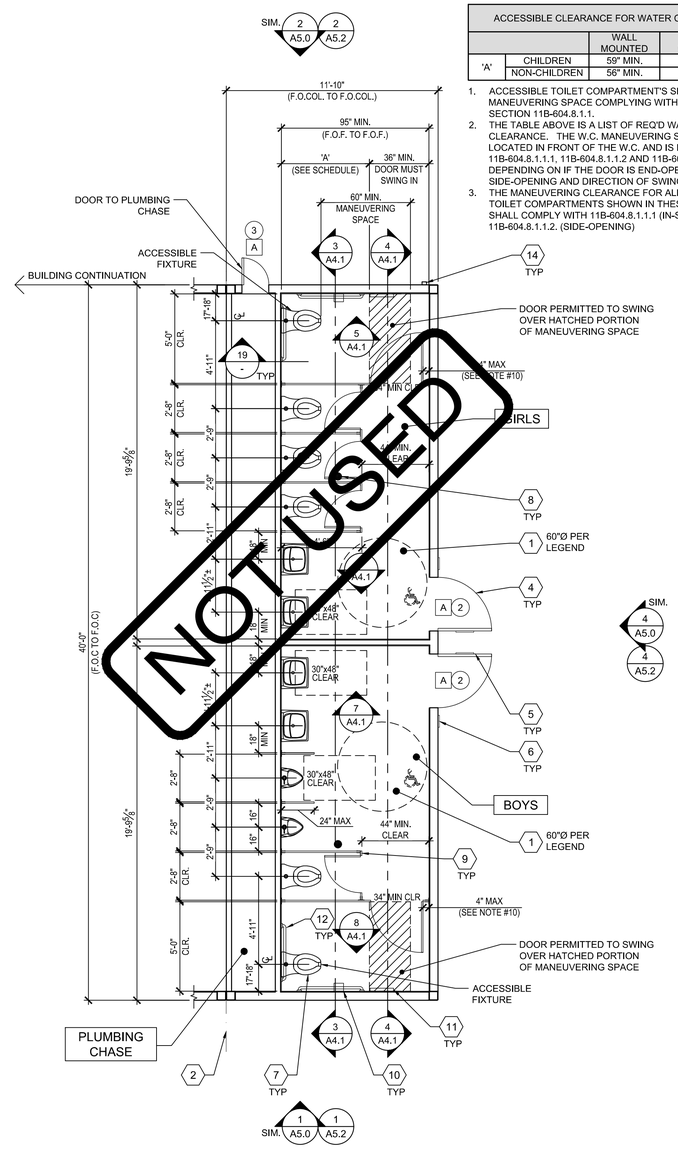
ACCESSIBLE CLEARANCE FOR WATER CLOSETS		WALL MOUNTED	FLOOR MOUNTED
'A'	CHILDREN	59" MIN.	59" MIN.
	NON-CHILDREN	56" MIN.	59" MIN.

1. ACCESSIBLE TOILET COMPARTMENT'S SHALL HAVE A MANEUVERING SPACE COMPLYING WITH 2019 CBC SECTION 11B-604.8.1.1.
2. THE TABLE ABOVE IS A LIST OF REQ'D WATER CLOSET CLEARANCE. THE W.C. MANEUVERING SPACE IS LOCATED IN FRONT OF THE W.C. AND IS DESCRIBED IN 11B-604.8.1.1.1, 11B-604.8.1.1.2 AND 11B-604.8.1.1.3 DEPENDING ON IF THE DOOR IS END-OPENING OR SIDE-OPENING AND DIRECTION OF SWING.
3. THE MANEUVERING CLEARANCE FOR ALL ACCESSIBLE TOILET COMPARTMENTS SHOWN IN THESE PLANS SHALL COMPLY WITH 11B-604.8.1.1.1 (IN-SWINGING) & 11B-604.8.1.1.2. (SIDE-OPENING)

NOT USED

BOYS, GIRLS & STAFF RESTROOM FLOOR PLAN OPTION

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



ACCESSIBLE CLEARANCE FOR WATER CLOSETS		WALL MOUNTED	FLOOR MOUNTED
'A'	CHILDREN	59" MIN.	59" MIN.
	NON-CHILDREN	56" MIN.	59" MIN.

1. ACCESSIBLE TOILET COMPARTMENT'S SHALL HAVE A MANEUVERING SPACE COMPLYING WITH 2019 CBC SECTION 11B-604.8.1.1.
2. THE TABLE ABOVE IS A LIST OF REQ'D WATER CLOSET CLEARANCE. THE W.C. MANEUVERING SPACE IS LOCATED IN FRONT OF THE W.C. AND IS DESCRIBED IN 11B-604.8.1.1.1, 11B-604.8.1.1.2 AND 11B-604.8.1.1.3 DEPENDING ON IF THE DOOR IS END-OPENING OR SIDE-OPENING AND DIRECTION OF SWING.
3. THE MANEUVERING CLEARANCE FOR ALL ACCESSIBLE TOILET COMPARTMENTS SHOWN IN THESE PLANS SHALL COMPLY WITH 11B-604.8.1.1.1 (IN-SWINGING) & 11B-604.8.1.1.2. (SIDE-OPENING)

NOT USED

BOYS & GIRLS RESTROOM FLOOR PLAN OPTION

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

1. CLEAR FLOOR SPACE AREA
2. TYP. MOD LINE
3. NOT USED
4. DOOR PER SCHEDULE ON SHEET N3.0, TYP.
5. RESTROOM SIGNAGE (BY OTHERS) PER DETAILS 1-9, SHEET N4.0
6. ROOM AND ISA SIGNAGE (BY OTHERS) PER DETAILS 5&9/N4.0
7. PLUMBING FIXTURE PER P1.0
8. FLOOR DRAIN (LOCATION MAY VARY) - PER P1.0. 1:48 FLOOR SLOPE MAX
9. TOILET PARTITIONS (ACCURATE, SOLID PLASTIC, OR EQUAL)
10. TOILET TISSUE DISPENSER PER P1.0
11. TOILET SEAT COVER DISPENSER PER P1.0
12. GRAB BARS - SEE 6/A7.1
13. NOT USED
14. DOWNSPOUT - DISCHARGE TO SPLASH BLOCK (U.N.O.) (QUANTITY AND LOCATION MAY VARY)

KEY NOTES

1. DIMENSIONS ARE TO FACE OF FINISH (F.O.F.) UNLESS NOTED OTHERWISE (i.e. F.O.C., ℄)
2. RESTROOM CONFIGURATION MAY VARY PER BUILDING CONFIGURATION.
3. RESTROOM MODULE OCCURS ONLY AT END OF BUILDING. SINGLE RESTROOMS MAY OCCUR IN ANY PART OF A BUILDING.
4. RESTROOM MODULE CANNOT STAND ALONE AND SHALL BE ASSEMBLED TOGETHER WITH AT LEAST ONE OTHER MODULE OF THE SAME SIZE.
5. INTERIOR WALLS MAY OCCUR THROUGHOUT BUILDING. REFER TO SHEET S8.1 FOR ATTACHMENTS.
6. REFER TO SCHEDULE 10/P2.0 FOR ACCESSIBLE HEIGHTS & DIMENSIONS.
7. REFER TO DETAILS 3, 4 & 5, SHEET A7.1 FOR TOILET PARTITION ANCHORAGE BLOCKING.
8. SEWER AND WATER STUB OUTS SHALL BE LOCATED WITHIN THE ALLOWABLE AREA AS SHOWN ON FLOOR PLAN AND CONNECTIONS SHALL BE EASILY ACCESSIBLE FOR FUTURE RELOCATION. STUB OUT HEIGHT SHALL BE COORDINATED BY THE MANUFACTURER.
9. PIPING MATERIAL
   a. WATER: COPPER TYPE "L", 95/5 SOLDER.
   b. WASTE DRAIN AND VENT: ABS.
10. TOILET COMPARTMENT DOORS LOCATED IN THE SIDE WALL OR PARTITION, THE DOOR OPENING SHALL BE 4 INCHES (102MM) MAXIMUM FROM THE FRONT PARTITION, PER C.B.C. SECTION 11B-604.8.1.2.

PLUMBING NOTE

MODULAR MFR. TO STUB THROUGH FLOOR ALL PLUMBING LINES. BUILDING PERIMETER POC'S SHOWN ARE FOR COORDINATION PURPOSES ONLY. ALL UNDER-FLOOR CONNECTIONS ARE BY SITE CONTRACTOR, U.O.N.

SITE NOTE

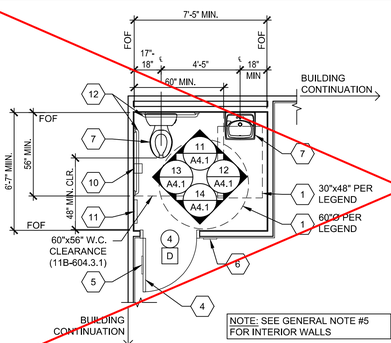
3/16:12 (1%) MINIMUM TO 1/4:12 (2%) MAXIMUM GRADE FROM FACE OF BUILDING MUST BE ADHERED TO FOR WATER RUN-OFF. PONDING MAY OCCUR AROUND THE PERIMETER OF THE BUILDING.

GENERAL NOTES

- 1 = KEY NOTE - SEE KEY NOTES, THIS SHEET
- X = DOOR TYPE - SEE SCHEDULE SHEET N3.0
- X = DOOR HARDWARE - SEE HARDWARE SCHEDULE SHEET N3.0
- X = WINDOW TYPE - SEE SCHEDULE SHEET N3.0
- = 60" DIAMETER CLEAR FLOOR TURNING SPACE
- = 30"x48" CLEAR FLOOR SPACE

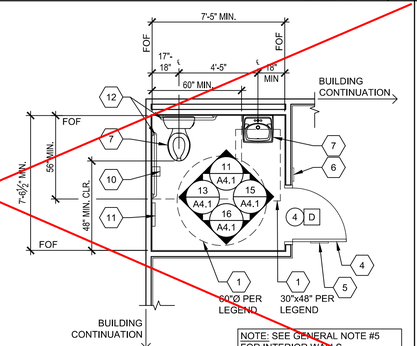
SYMBOLS LEGEND

SCALE: 1/4" = 1'-0" | 20



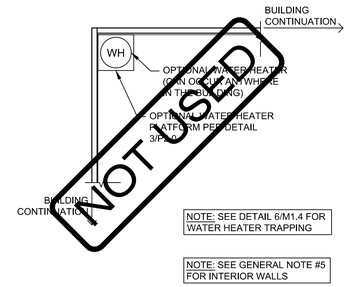
(THIS RESTROOM OPTION CAN OCCUR ANYWHERE IN THE BUILDING)

SINGLE TOILET PLAN - FRONT WALL APPROACH — SCALE: 1/4" = 1'-0" | 16



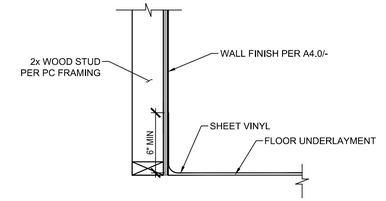
(THIS RESTROOM OPTION CAN OCCUR ANYWHERE IN THE BUILDING)

SINGLE TOILET PLAN - SIDE WALL APPROACH — SCALE: 1/4" = 1'-0" | 17



NOT USED

OPTIONAL WATER HEATER — SCALE: 1/4" = 1'-0" | 18



PROTECTION OF WOOD WALLS @ TOILET ROOMS — SCALE: 1/4" = 1'-0" | 19

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — ANDREW PATRICK HOWARD — No. C12631 Rem. 9-31-23 — STATE OF CALIFORNIA

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

REVISIONS

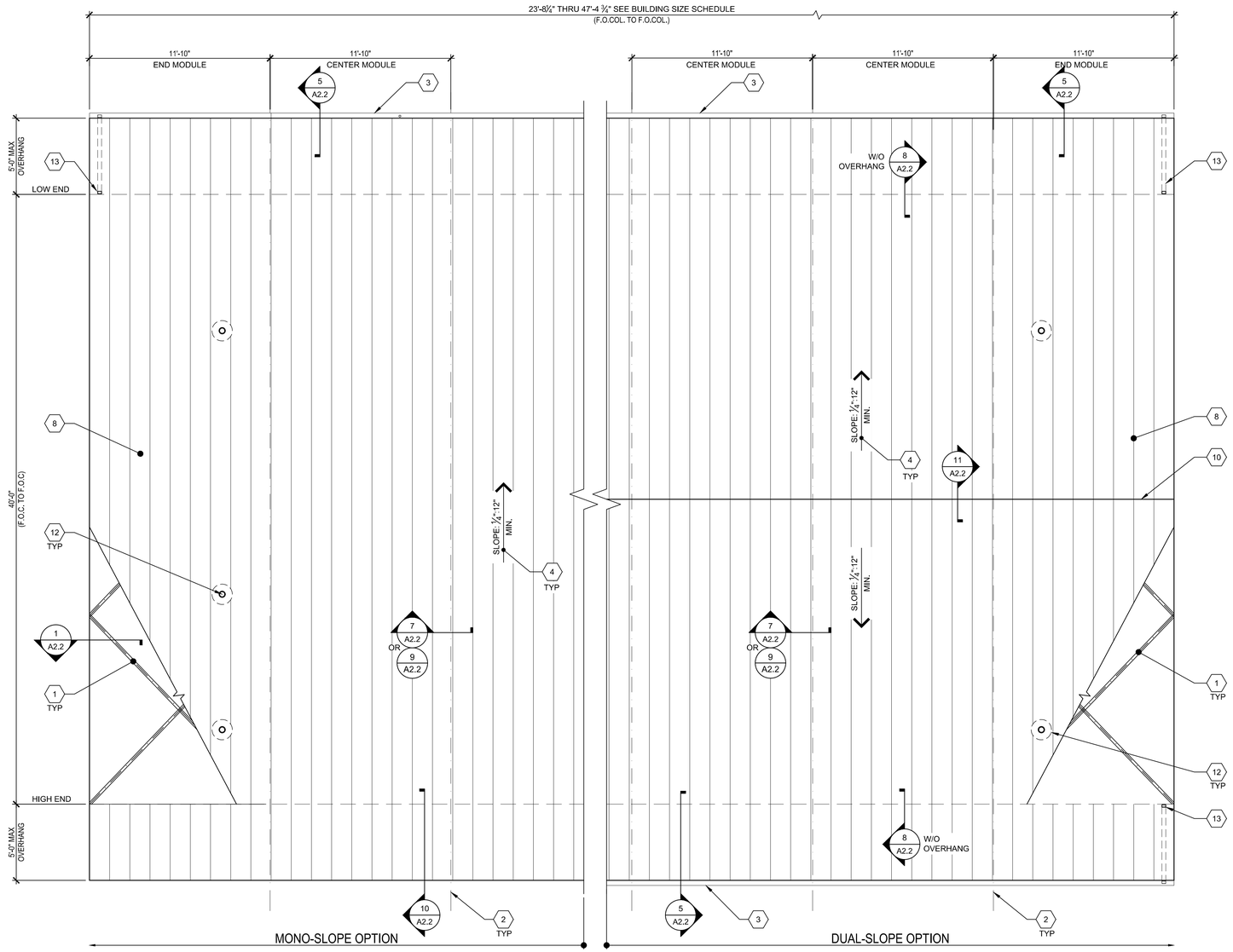
DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

SHEET TITLE:

RESTROOM FLOOR PLAN OPTIONS

SHEET NUMBER:

A1.2



TYPICAL ROOF PLAN

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

ROOF AREA DRAINS
(WITH 5'+2' OVERHANGS)

BUILDING SIZE (NOM.)	ROOF AREA	MINIMUM NO. OF DRAINS	SIZE OF DRAIN
☐ 24'x40'	1128	1	2x3
☒ 36'x40'	1692	1	2x3
☐ 48'x40'	2256	1	2x3

NOTES:

1. DOWNSPOUTS & LEADERS PER C.P.C. 1106.1 AND TABLE 1101.12.
2. PC DOWNSPOUT SIZING BASED ON ROOF AREA AND MAX RAINFALL RATE OF 3" PER HOUR. SITE SPECIFIC BUILDING MAY UTILIZE LOCAL RAINFALL RATE--PROVIDE SITE RAINFALL RATE TO DETERMINE MINIMUM NUMBER OF DRAINS REQUIRED.

ROOF DRAIN SCHEDULE

BUILDING SIZE SCHEDULE

BUILDING SIZE (FT)	TOTAL # OF 12'-0" WIDE MODULES	TOTAL # OF CENTER MODULES	TOTAL FNDN WIDTH
☐ 24'x40'	2	0	23'-8"
☒ 36'x40'	3	1	35'-6"
☐ 48'x40'	4	2	47'-4"

BUILDING SIZE SCHEDULE

NOT USED | 3

NOT USED | 4

SOLAR-READY ZONE REQUIREMENTS

REQUIRED SOLAR-READY ZONE

BUILDING SIZE (NOM.)	MAX. ROOF AREA (SQ. FT.)	REQ'D ZONE AREA (SQ. FT.)
☐ 24'x40'	1200	180
☒ 36'x40'	1800	270
☐ 48'x40'	2400	360

1. ROOF STRAP CROSS BRACING PER SHEET S4.0.
2. TYPICAL MOD LINE
3. OPTIONAL GUTTER PER DETAIL 5/A2.2
4. TYPICAL ROOF SLOPE
5. NOT USED
6. NOT USED
7. NOT USED
8. STANDING SEAM METAL ROOF PER 7/S0.0 & DETAILS ON SHEET A2.2
9. NOT USED
10. RIDGE @ DUAL SLOPE OPTION
11. NOT USED
12. PIPE VENT PER PLUMBING PLANS & 2/M1.6
13. OPTIONAL DOWNSPOUT - SEE ROOF DRAIN SCHEDULE BELOW FOR MIN. # OF DRAINS.
14. NOT USED
15. NOT USED

KEY NOTES

1. OPTIONAL GUTTERS SHALL BE LOCATED ALONG THE END-WALLS OF THE BUILDING(S):
   - MONO-SLOPE: REAR END WALLS ONLY.
   - DUAL-PITCH: BOTH FRONT & REAR END WALLS.

SHEET NOTES

SOLAR ZONE REQUIRED, PER TITLE 24 SECTION 110.10: FOR NON-RESIDENTIAL BUILDINGS, 3 STORIES OR LESS, A MINIMUM OF 15% OF ROOF AREA (EXCLUDING SKYLIGHTS) MUST BE SET ASIDE FOR PHOTO-VOLTAICS (PV). THE ROOF MUST HAVE NO ROOF OBSTRUCTIONS.

1. REQUIRED SOLAR-READY ZONE, AREA PER THE CHART BELOW, MUST BE PROVIDED ON BUILDING ROOF.
2. ZONE MUST BE LEFT VOID OF ROOF-MOUNTED HVAC UNITS, SKYLIGHTS OR OTHER OBSTRUCTIONS THAT WOULD HINDER FUTURE INSTALLATION OF SOLAR SYSTEM COMPONENTS, INCLUDING PV PANELS.
3. TOTAL AREA REQUIRED FOR SOLAR-READY ZONE DOES NOT NEED TO BE LOCATED IN ONE AREA BUT CAN BE SPREAD OUT OVER ROOF.
4. SOLAR-READY ZONE SHALL NOT INCLUDE ROOF OVERHANGS, AND SOLAR SYSTEM COMPONENTS MAY NOT BE PLACED THERE.
5. THE ROOF STRUCTURE HAS BEEN DESIGNED PER THE DESIGN LOADS SPECIFIED ON SHEET TS, WHICH DOES NOT INCLUDE LOADS FROM SOLAR EQUIPMENT THAT MIGHT BE INSTALLED AT A LATER DATE.
6. EQUIPMENT SUCH AS SOLAR MODULES, INVERTERS, AND METERING EQUIPMENT DO NOT NEED TO BE INSTALLED, NOR DOES CONDUIT, PIPING, OR PRE-INSTALLED MOUNTING HARDWARE.
7. A STRUCTURAL ENGINEER SHOULD BE CONSULTED PRIOR TO ANY FUTURE SOLAR INSTALLATIONS TO DETERMINE THE ADEQUACY OF THE ROOF FRAMING TO SUSTAIN THE LOADS OF THE INSTALLATION ON THE BUILDING STRUCTURE.
8. A SEPARATE DSA APPLICATION NUMBER IS REQUIRED FOR DESIGN & INSTALLATION OF THE SOLAR PANEL SYSTEM, ITS ANCHORAGE & ROOF SUPPORT STRUCTURE.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
ANDREW PATRICK SMITH
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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

REVISIONS

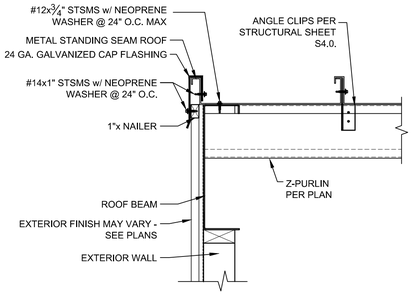
DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

SHEET TITLE:

TYPICAL ROOF PLAN
METAL STANDING SEAM

SHEET NUMBER:

A2.0



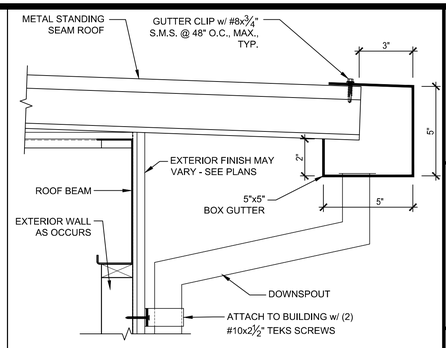
SEE SHEETS A5.0 & A5.2 FOR EXTERIOR FINISHES.

METAL ROOF w/ STRAPS — SCALE : 1 1/2"=1'-0" — 1

NOT USED — 2

NOT USED — 3

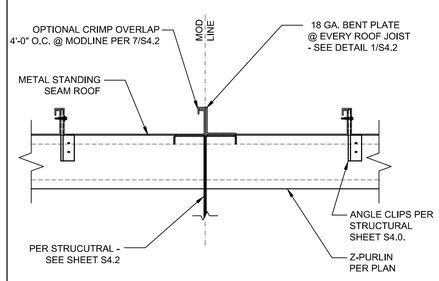
NOT USED — 4



SEE DETAIL 8/- WITHOUT OVERHANG, GUTTER, & DOWNSPOUT OPTION.
SEE DETAIL 10/- WITH OVERHANG OPTION ONLY.
SEE SHEETS S4.0 FOR SOFFIT.

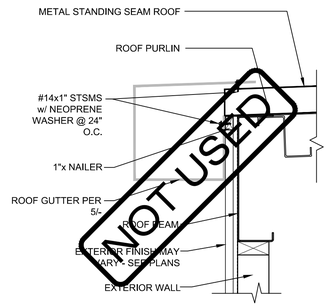
TYP. GUTTER ATTACHMENT — SCALE : 1 1/2"=1'-0" — 5

NOT USED — 6



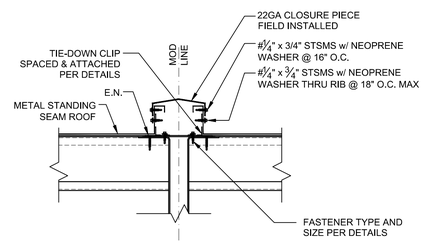
NOTE: SEE DETAIL 9/- FOR OPTIONAL MOD-LINE CONNECTION AT SEISMIC JOINT.

TYP. ROOF BEAM CONN. @ MODLINE — SCALE : 1 1/2"=1'-0" — 7



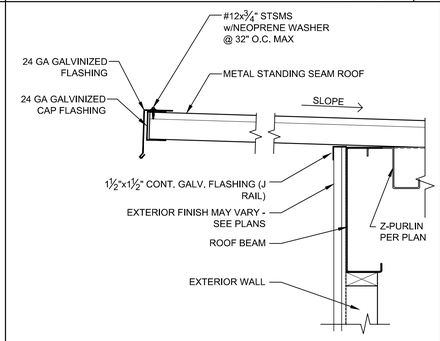
SEE DETAIL 5/- WITH OVERHANG, GUTTER, & DOWNSPOUT OPTION.
SEE DETAIL 10/- WITH OVERHANG OPTION ONLY.
SEE SHEETS S4.0 OR S4.1 FOR SOFFIT OPTIONS.

METAL ROOF @ END WALLS (w/o OVERHANGS) — SCALE : 1 1/2"=1'-0" — 8



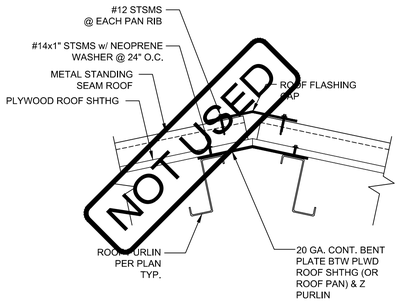
NOTE: SEE DETAIL 7/- FOR TYPICAL MOD-LINE CONNECTION.

METAL ROOF @ MODLINE OPTION — SCALE : 1 1/2"=1'-0" — 9



SEE DETAIL 5/- WITH OVERHANG, GUTTER, & DOWNSPOUT OPTION.
SEE DETAIL 8/- WITHOUT OVERHANG, GUTTER, & DOWNSPOUT OPTION.
SEE SHEETS S4.0 FOR SOFFIT.

METAL ROOF EDGE @ OVERHANG — SCALE : 1 1/2"=1'-0" — 10



OPTIONAL METAL DUAL SLOPED — SCALE: 1-1/2"=1'-0" — 11

NOT USED — 12

NOT USED — 13

NOT USED — 14

NOT USED — 15

NOT USED — 16

NOT USED — 17

NOT USED — 18

NOT USED — 19

NOT USED — 20

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

.
.
.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — PATRICK J. HOWE — No. C12631 — Ren. 3-31-23 — STATE OF CALIFORNIA

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

REVISIONS

DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

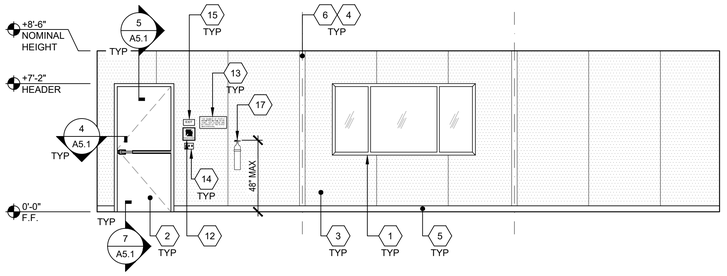
SHEET TITLE:

TYPICAL ROOF DETAILS
METAL STANDING SEAM

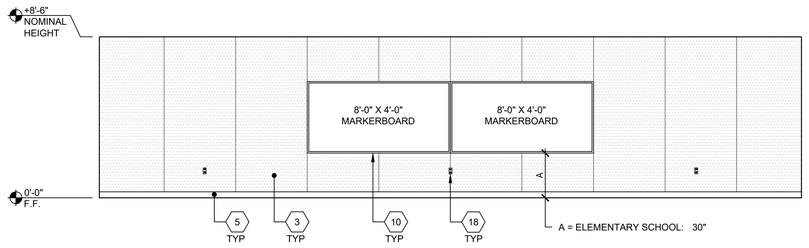
SHEET NUMBER:

A2.2

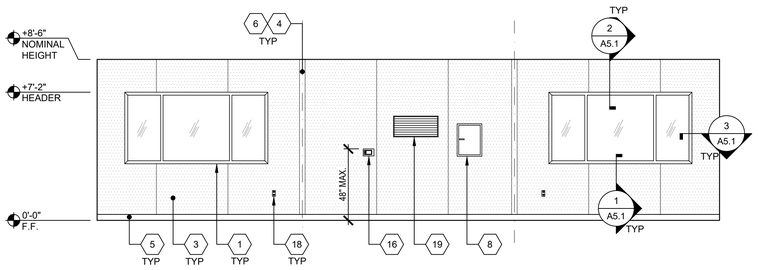
D:\XXXX\...\[hidden]



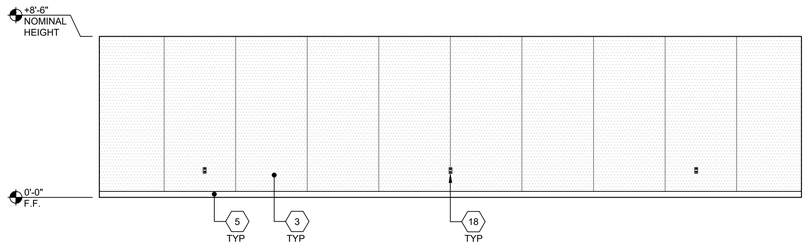
CLASSROOM FRONT END WALL ELEVATION — SCALE : 1/4"=1'-0" | 1



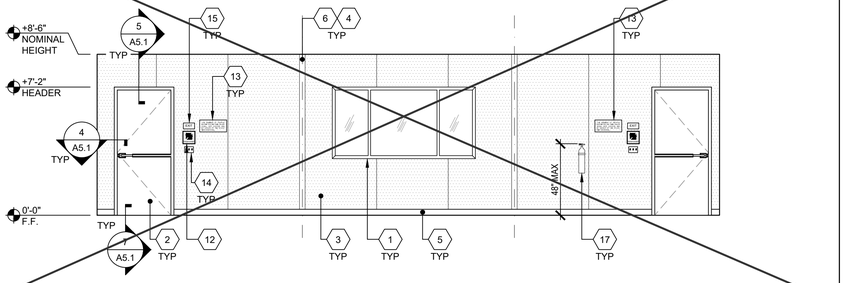
CLASSROOM SIDE WALL ELEVATION — SCALE : 1/4"=1'-0" | 2



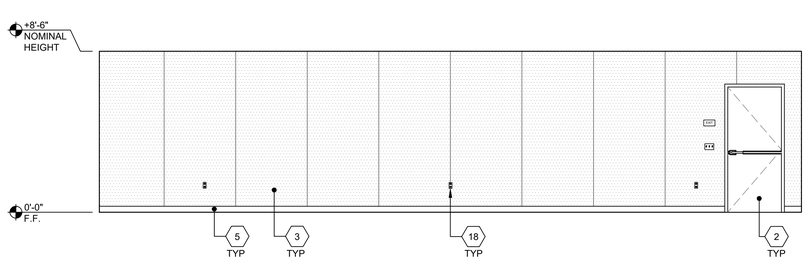
CLASSROOM REAR END WALL ELEVATION — SCALE : 1/4"=1'-0" | 3



CLASSROOM SIDE WALL ELEVATION — SCALE : 1/4"=1'-0" | 4



CLASSROOM FRONT END WALL ELEVATION — SCALE : 1/4"=1'-0" | 6

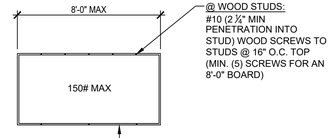


CLASSROOM SIDE WALL ELEVATION — SCALE : 1/4"=1'-0" | 8

NOT USED | 9

NOT USED | 10

NOT USED | 11



NOTE:
1. ATTACHMENT IS FOR EACH MARKERBOARD.
2. EACH WHITEBOARD SHALL PROTRUDE 4" MAX HORIZONTALLY INTO THE CIRCULATION PATH, PER CBC SECTION 11B-307.2.
3. EACH WHITEBOARD SHALL HAVE FASTENERS PROVIDED BY MANUFACTURER AS NOTED ABOVE.

MARKERBOARD ATT. DETAIL — SCALE : 1/4"=1'-0" | 12

1. WINDOW PER N3.0
2. TYP DOOR PER N3.0
3. TACKBOARD - (FLAME RESISTANT INDUSTRIAL TACKABLE BOARD) - SHALL BE CLASS A RATED (ASTM E-84). NOMINAL PANEL THICKNESS SHALL BE ± 0.5" AND SHALL BE INSTALED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.
4. TYP MOD LINE
5. 4" TOP SET BASE
6. BATTEN STRIP AT MOD-LINES, TYP
7. NOT USED
8. ELECTRICAL PANEL - SEE ELECTRICAL SHEETS
9. NOT USED
10. (2) 8'x4' MARKER BOARDS - SEE DETAIL 8/A4.0
11. NOT USED
12. ASSISTIVE LISTENING SIGH, BY OTHERS, INSTALLED PER DETAIL 17/N4.0 SIGN SHALL BE A MAXIMUM OF 70" A.F.F. TO BASELINE OF HIGHEST TEXT.
13. OCCUPANT LOAD SIGN PER DETAIL 11/N4.0 (BY SITE CONTRACTOR)
14. LIGHT SWITCH - SEE ELECTRICAL SHEETS
15. EXIT TACTILE SIGN PER DETAIL 10/N4.0 (NIC) (BY SITE CONTRACTOR)
16. THERMOSTAT, TOP @ 48" A.F.F. - SEE MECHANICAL SHEETS
17. FIRE EXTINGUISHER TOP OF HANDLE @ +48" MAX. A.F.F. PROTRUSION MAX 4" FROM WALL IF BOTTOM OF FIRE EXTINGUISHER GREATER THAN +27" A.F.F
18. TYP DUPLEX OUTLET - SEE ELECTRICAL SHEETS
19. HVAC GRILL

KEY NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

MMM
(20) BUILDINGS

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
ANDREW PATRICK O'MAHONY
No. C12631
Ren. 8-31-25
STATE OF CALIFORNIA

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

REVISIONS
1
2
3
4

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	06/01/2023
PROJECT NO:	1791-23

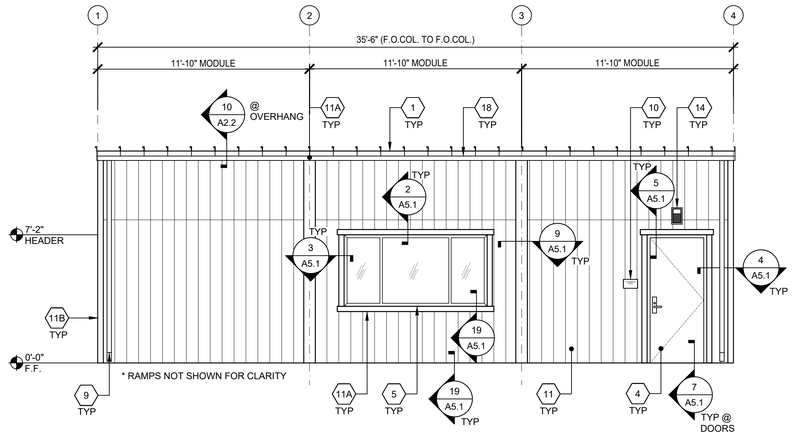
SHEET TITLE:

INTERIOR ELEVATIONS
TYPICAL CLASSROOM

SHEET NUMBER:

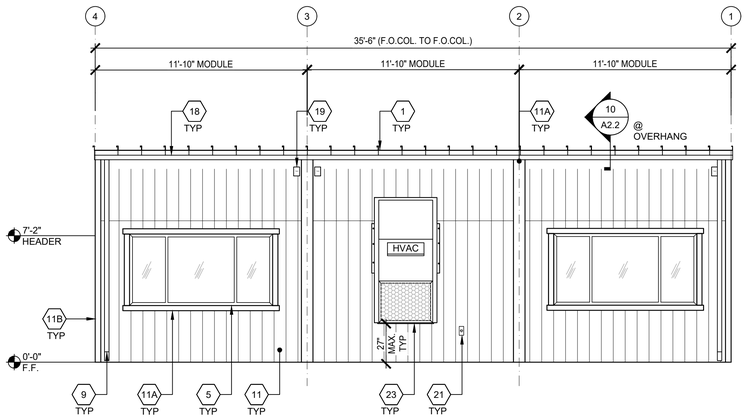
A4.0

D:\XXXXX_{24-40}\{24-40}\{24-40}_{A}_{A}_{BIM}\{BIM}\{BIM}_{AM}_{1791}\{1791}\{1791}-23\{1791}-23_{REVIT}_{AM_1791}{1791-23_REVIT_AM_2023_DETACHED_v24.rvt}



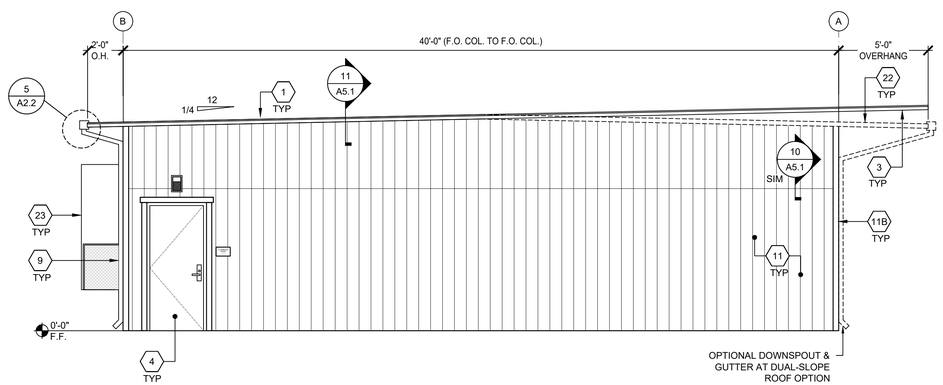
EXTERIOR ELEVATION - FRONT

SCALE: 3/16" = 1'-0" | 1



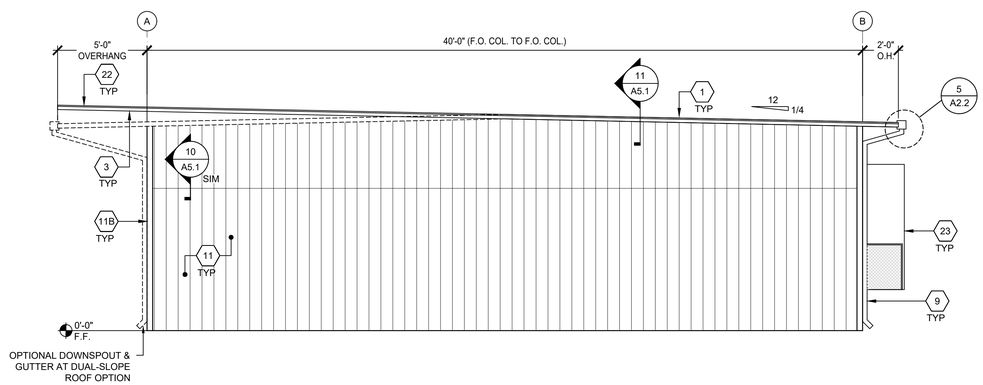
EXTERIOR ELEVATION - REAR

SCALE: 3/16" = 1'-0" | 2



EXTERIOR ELEVATION - LEFT

SCALE: 3/16" = 1'-0" | 3



EXTERIOR ELEVATION - RIGHT

SCALE: 3/16" = 1'-0" | 4

1	STANDING SEAM METAL ROOFING
2	NOT USED
3	OVERHANG - SEE STRUCTURAL
4	TYP EXTERIOR DOOR - SEE SCHEDULE SHEET N3.0
5	WINDOW - SEE SCHEDULE SHEET N3.0
6	NOT USED
7	NOT USED
8	NOT USED
9	DOWNSPOUT SEE DETAIL 8/A5.5 FOR ATTACHMENT
10	ROOM ID AND ISA SIGNAGE (BY SITE CONTRACTOR) SEE DETAILS 5 & 9/N4.0 - TYP
11	5/8" OSB SHEATHING DURATAMP 303
11A	1x4 TRIM
11B	22 GA. CORNER FLASHING
12	NOT USED
13	NOT USED
14	EXTERIOR LIGHT - SEE ELECTRICAL
15	NOT USED
16	NOT USED
17	NOT USED
18	GUTTER - SEE ATTACHMENT DETAIL 5/A2.2 AT STANDING SEAM ROOFING, OR 5/A2.5 AT SINGLE-PLY / BUILT-UP ROOFING
19	MODULAR IDENTIFICATION TAG +90" ABOVE A.F.F.
20	NOT USED
21	WP/G.F.C.I. @ HVAC UNITS - REFER TO ELECTRICAL PLANS
22	DUAL SLOPE OPTION
23	HVAC UNIT

KEY NOTES

PROJECT SPEC BUILDING SIZE	BUILDING	12'-0" MODULES	OVERALL SIZE
☐	24'x40'	2	23'-8"
☒	36'x40'	3	35'-6"
☐	48'x40'	4	47'-4"

BUILDING SIZE SCHEDULE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)
2GO®

SITE SPECIFIC PROJECT NAME

MMM
(20) BUILDINGS

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
PATRICK O'HAGAN
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

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

REVISIONS

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	06/01/2023
PROJECT NO:	1791-23

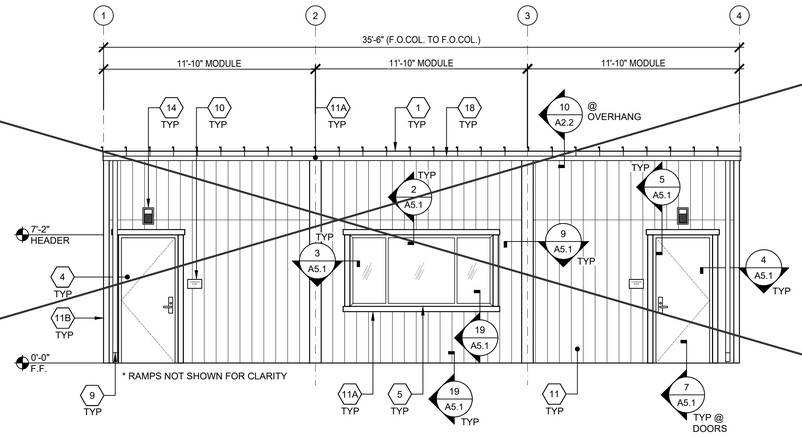
SHEET TITLE:

TYPICAL EXTERIOR
ELEVATIONS - DURA TEMP 303
OPTION

SHEET NUMBER:

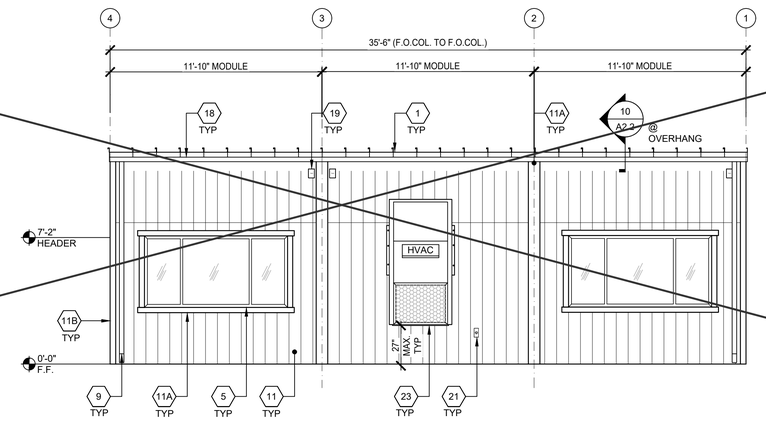
A5.0A

D:\XXXXX Job #s\Jobs\Drafting\Jobs 6A\1-20\1791\23\Bldg\Bldg.rvt 7/27/2023 9:53:22 AM rhuhnerkoch,rhuhnerkoch,rhuhnerkoch,



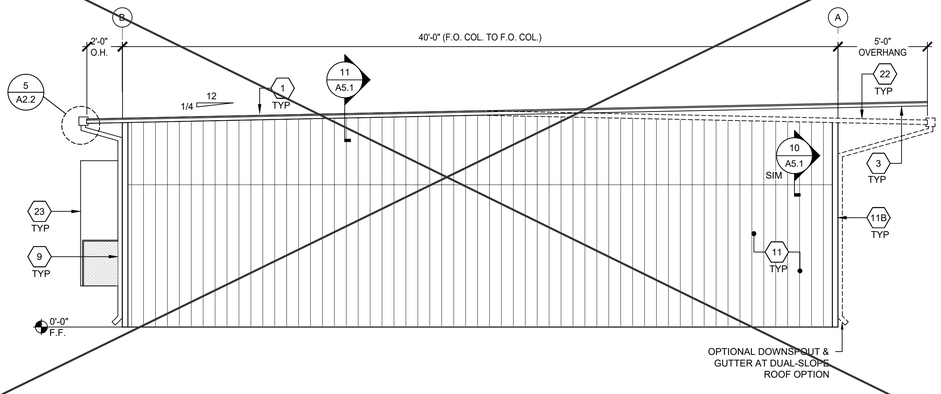
EXTERIOR ELEVATION - FRONT

SCALE: 3/16" = 1'-0" | 1



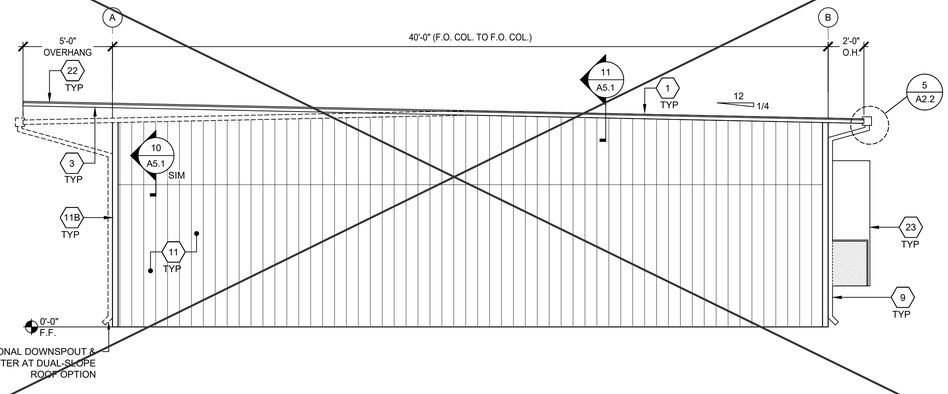
EXTERIOR ELEVATION - REAR

SCALE: 3/16" = 1'-0" | 2



EXTERIOR ELEVATION - LEFT

SCALE: 3/16" = 1'-0" | 3



EXTERIOR ELEVATION - RIGHT

SCALE: 3/16" = 1'-0" | 4

KEY NOTES

1. STANDING SEAM METAL ROOFING
2. NOT USED
3. OVERHANG - SEE STRUCTURAL
4. TYP EXTERIOR DOOR - SEE SCHEDULE SHEET N3.0
5. WINDOW - SEE SCHEDULE SHEET N3.0
6. NOT USED
7. NOT USED
8. NOT USED
9. DOWNSPOUT SEE DETAIL 8/A5.5 FOR ATTACHMENT
10. ROOM ID AND ISA SIGNAGE (BY SITE CONTRACTOR) SEE DETAILS 5 & 9/N4.0 - TYP
11. 5/8" OSB SHEATHING DURATAMP 303
11A. 1x4 TRIM
11B. 22 GA. CORNER FLASHING
12. NOT USED
13. NOT USED
14. EXTERIOR LIGHT - SEE ELECTRICAL
15. NOT USED
16. NOT USED
17. NOT USED
18. GUTTER - SEE ATTACHMENT DETAIL 5/A2.2 AT STANDING SEAM ROOFING, OR 5/A2.5 AT SINGLE-PLY / BUILT-UP ROOFING
19. MODULAR IDENTIFICATION TAG +90" ABOVE A.F.F.
20. NOT USED
21. WP/G.F.C.I. @ HVAC UNITS - REFER TO ELECTRICAL PLANS
22. DUAL SLOPE OPTION
23. HVAC UNIT

BUILDING SIZE SCHEDULE

PROJECT SPEC BUILDING SIZE	BUILDING	12'-0" MODULES	OVERALL SIZE
☐	24'x40'	2	23'-8"
☒	36'x40'	3	35'-6"
☐	48'x40'	4	47'-4"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)
2GO®

SITE SPECIFIC PROJECT NAME

MMM
(20) BUILDINGS

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
PATRICK CONNOR
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

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

REVISIONS

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	06/01/2023
PROJECT NO:	1791-23

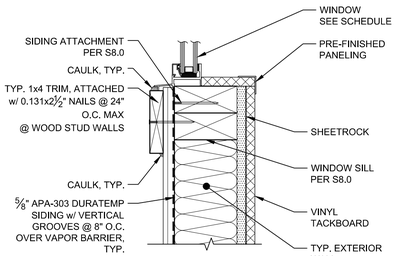
SHEET TITLE:

TYPICAL EXTERIOR ELEVATIONS - DURA TEMP 303 OPTION

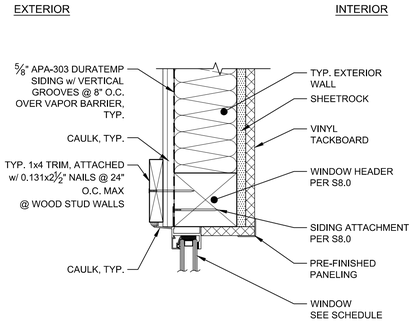
SHEET NUMBER:

A5.0B

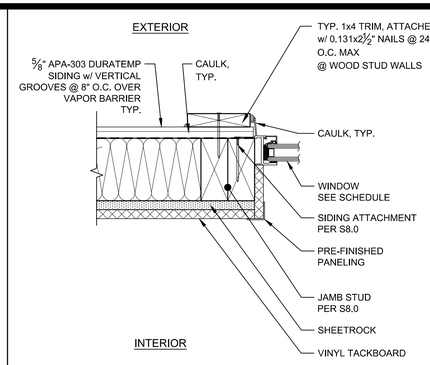
ID:XXXXXX_jbe4kqkkf3f3f5f5fc3dc-5fzf-8f1-5f3f3f3f5f5f8f_AC/7/2021 8:51:39/2021 8:51:39 AM_P:\Archive\2021\2021-0015\2021-0015 AMS Template\2021-0015 AMS Template_R21.rvt



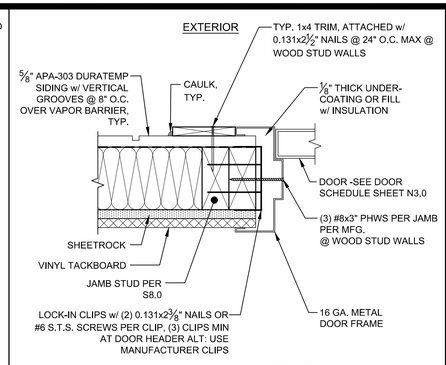
TYPICAL WINDOW SILL — SCALE: 3" = 1'-0" — 1



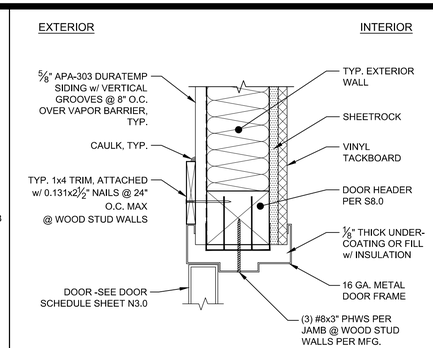
TYPICAL WINDOW HEADER — SCALE: 3" = 1'-0" — 2



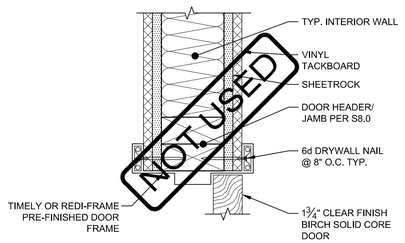
TYPICAL WINDOW JAMB — SCALE: 3" = 1'-0" — 3



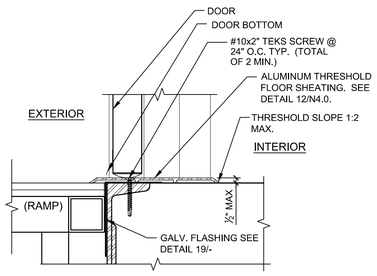
TYPICAL DOOR JAMB — SCALE: 3" = 1'-0" — 4



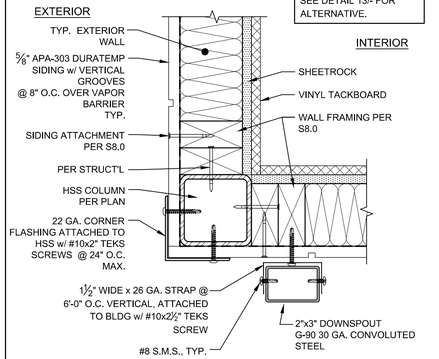
TYPICAL DOOR HEADER — SCALE: 3" = 1'-0" — 5



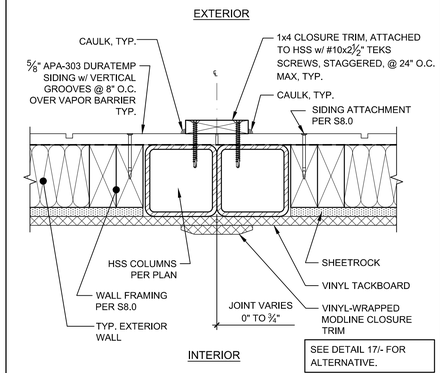
TYP. INTERIOR DOOR HEADER/JAMB — SCALE: 3" = 1'-0" — 6



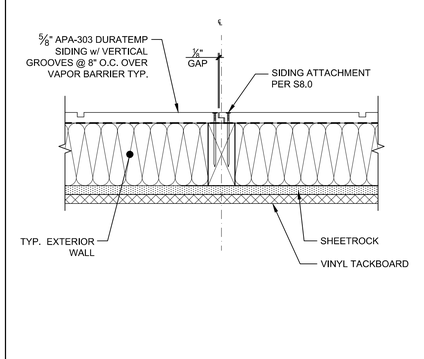
TYPICAL THRESHOLD DETAIL — SCALE: 3" = 1'-0" — 7



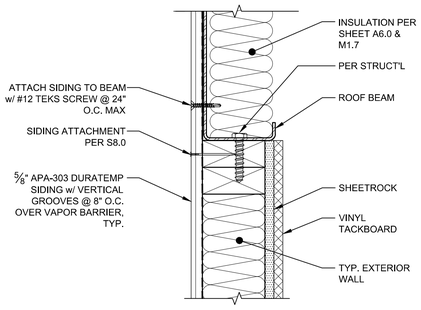
TYP. BLDG CORNER & DOWNSPOUT ATTACHMENT DETAIL — SCALE: 3" = 1'-0" — 8



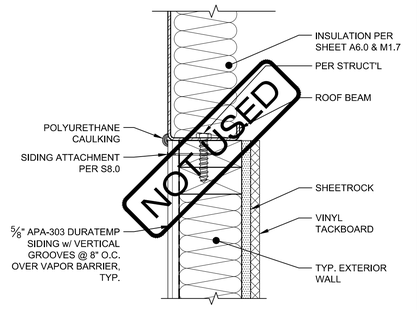
TYP. MODLINE CLOSURE DETAIL — SCALE: 3" = 1'-0" — 9



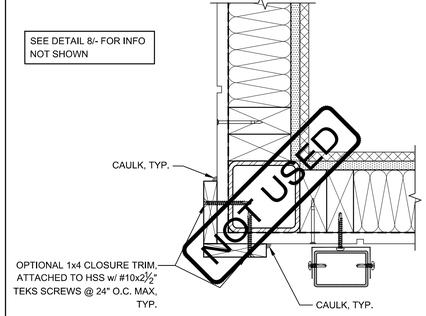
TYP. SIDING JOINT DETAIL — SCALE: 3" = 1'-0" — 10



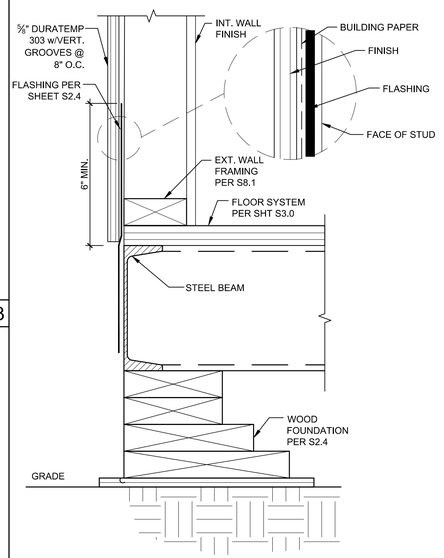
SIDING DETAIL @ ROOF BEAM — SCALE: 3" = 1'-0" — 11



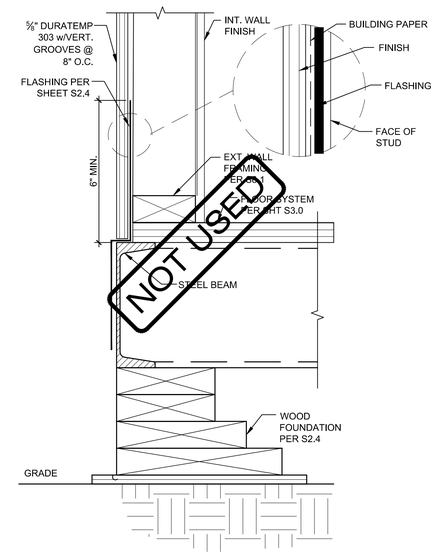
ALTERNATE SIDING @ ROOF BEAM — SCALE: 3" = 1'-0" — 12



ALTERNATE BUILDING CORNER DETAIL — SCALE: 3" = 1'-0" — 13



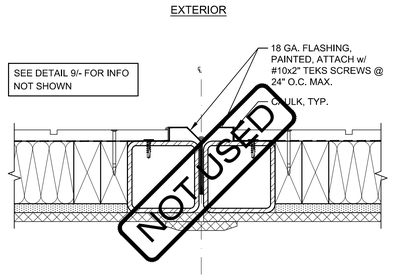
FLASHING/SIDING DETAIL @ FLOOR BEAM



ALTERNATE FLASHING/SIDING DETAIL @ FLOOR BEAM

1. REFER TO SHEET A6.0 FOR ALL BUILDING INSULATION INSTALLATION NOT SHOWN OR NOTED ON DETAIL ON THIS SHEET.
2. FLASHING SHALL BE PROVIDED PER DETAILS 10 & 19/-.
3. DURATEMP SPECIFICATIONS - 7', 8', 9' & 10' X 4' HARDBOARDS, GRADES APA & PS 1 SPECIFICATIONS - 4", 8" GROOVE PATTERNS. FLAME SPREAD INDEX OF 126.2 (ALLOWABLE 75-200). NAILING SHALL BE 0.131"Ø GALV. NAILS @ 6" O.C. E.N. AND 12" O.C. F.N. (ALL EDGES BLOCKED)

SHEET NOTES



ALTERNATE MODLINE CLOSURE DETAIL — SCALE: 3" = 1'-0" — 17

NOT USED — SCALE: 3" = 1'-0" — 18

FLASHING DETAIL — SCALE: 3" = 1'-0" — 19

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — PATRICK CONEY — No. C12631 Ren. 3-31-23 — STATE OF CALIFORNIA

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

REVISIONS

1	
2	
3	
4	

DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

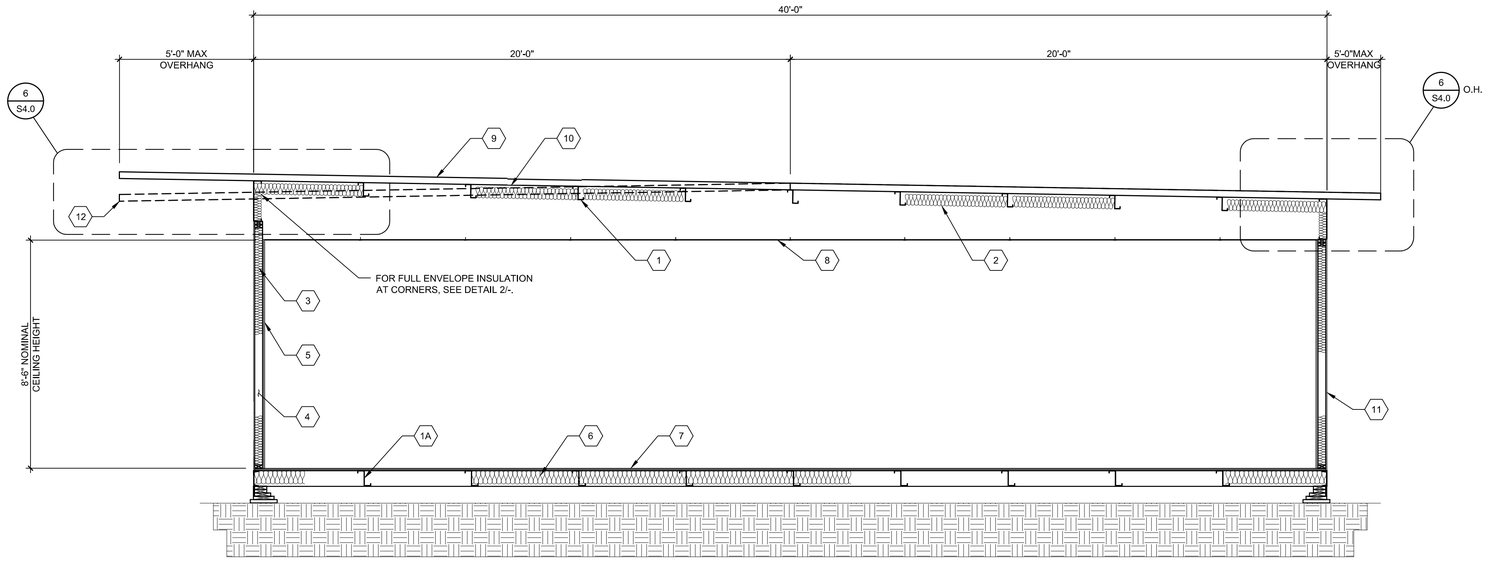
SHEET TITLE:

TYP. ARCHITECTURAL DETAILS
- DURATEMP 303
SIDING OPTION

SHEET NUMBER:

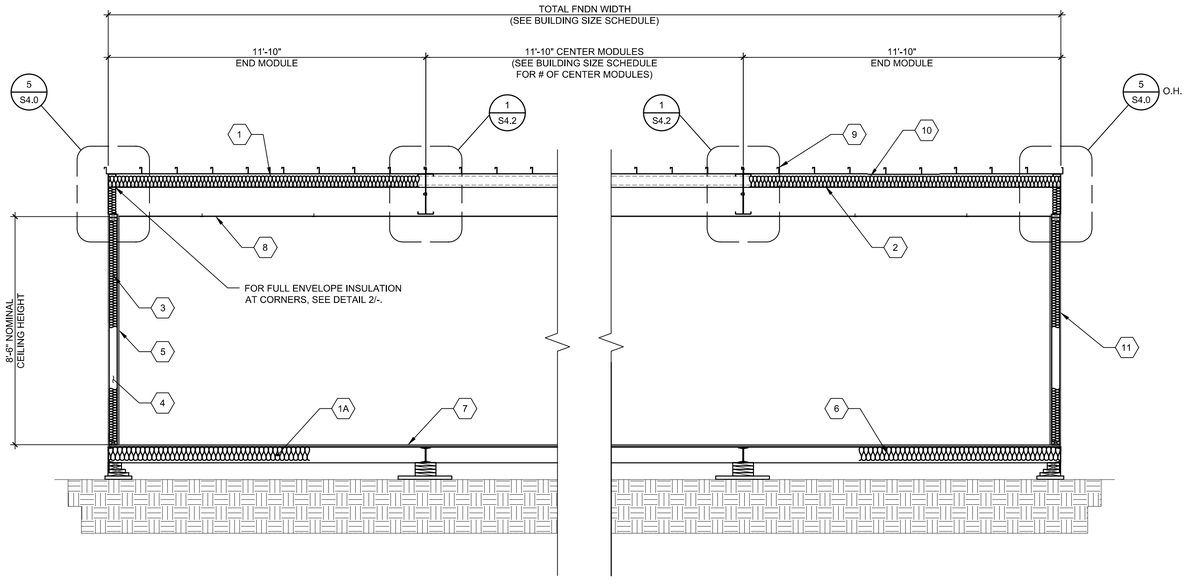
A5.1

ID:XXXXX 24-x40-xHRSDetails-Dur-303-SIDING.dwg PLOTTED:09/20/2021 9:56:38 AM BY: ANDREW HAN File: I:\Engineering\PROJECTS\2021\XXXX-21\Drawings\Details\24-x40-xHRSDetails-Dur-303-SIDING.dwg



TYP. LONGITUDINAL SECTION-MONO/DUAL PITCH

SCALE: 3/8"=1'-0" | A



TYP. TRANSVERSE SECTION-MONO/DUAL PITCH

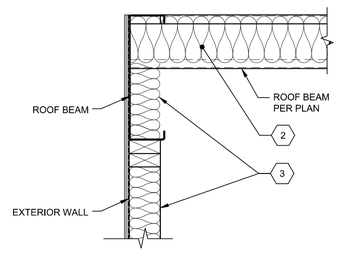
SCALE: 3/8"=1'-0" | B

1 ROOF PURLINS PER ROOF FRAMING PLAN
1A FLOOR JOISTS PER FLOOR FRAMING PLAN
2 BATT ROOF INSULATION PER SHEET M1.7
3 WALL FRAMING PER SHEETS S8.0 OR S9.0
4 WALL INSULATION PER SHEET M1.7
5 VINYL FABRIC OVER TACKABLE BRACING PANELS
6 BATT FLOOR INSULATION PER SHEET M1.7 (PLYWOOD FLOOR ONLY)
7 PLYWOOD FLOOR PER SHEET S3.0 ~~OR CONCRETE FLOOR PER SHEETS S3.1 - S3.3~~
8 SUSPENDED T-BAR CEILING PER M1.0
9 FINISHED ROOFING PER ROOF PLAN & ROOF FRAMING PLAN
10 STEEL CROSS BRACING WITHOUT RIGID ROOF INSULATION (S4.0)
11 EXTERIOR WALL FINISH PER EXTERIOR ELEVATIONS
12 SOLID BLOCKING @ CEILING LEVEL PER CBC 718.2

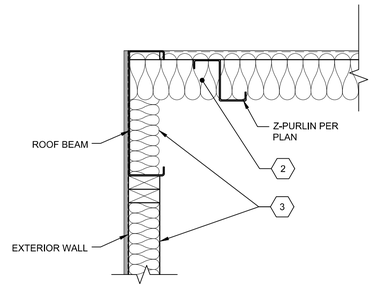
KEY NOTES

BUILDING SIZE SCHEDULE			
BUILDING SIZE (FT)	TOTAL # OF 12'-0" WIDE MODULES	TOTAL # OF CENTER MODULES	TOTAL FNDN WIDTH
☐ 24'x40'	2	0	23'-8"
☒ 36'x40'	3	1	35'-6"
☐ 48'x40'	4	2	47'-4"

BUILDING SIZE SCHEDULE



INSULATION CORNER DET. SCALE: 1-1/2"=1'-0" | 1



INSULATION CORNER DET. SCALE: 1-1/2"=1'-0" | 2

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
GREGORY PATRICK DEMKOV
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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

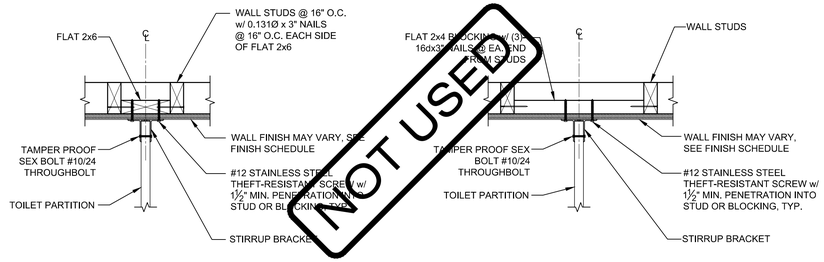
REVISIONS
1
2
3
4

DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

SHEET TITLE:
TYPICAL LONGITUDINAL AND TRANSVERSE BUILDING SECTIONS

SHEET NUMBER:
A6.0

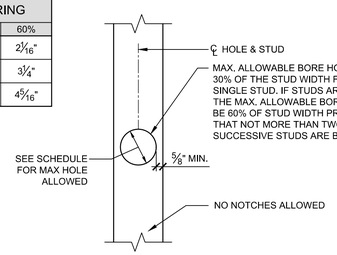
G:\XXXX\... plotted 8/18/2021 by ... file: C:\Users\...\Desktop\2GO\2019\Mod\Sections\SS\SS\SS



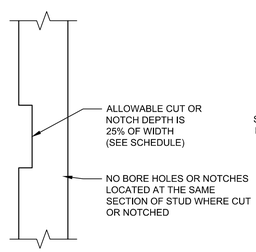
WOOD STUDS
OPTION No. 1

WOOD STUDS
OPTION No. 2

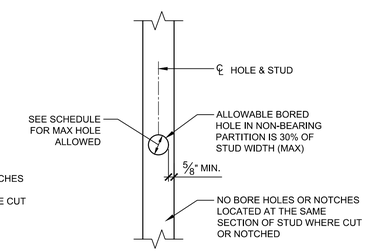
NOTCH & BORING SCHEDULE					
	STUD WIDTH		NOTCHING	BORING	
SIZE	NOMINAL	ACTUAL	25%	30%	60%
2x4	4"	3½"	7/8"	1"	2 1/16"
2x6	6"	5½"	1 3/8"	1 5/8"	3¼"
2x8	8"	7¼"	1 13/16"	2⅛"	4 5/16"



EXTERIOR WALL
BORING



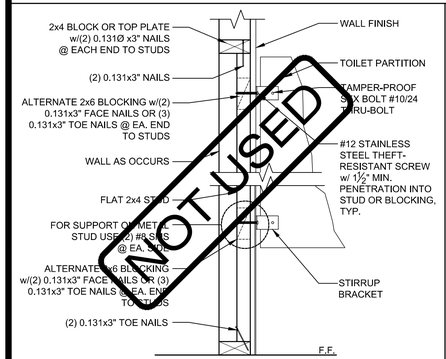
INTERIOR WALL
NOTCHING



INTERIOR WALL
BORING

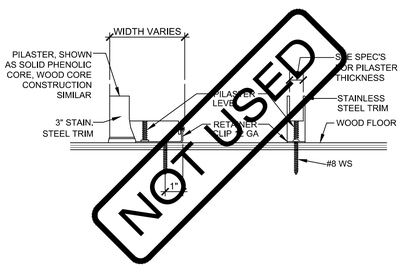
TOILET PARTITION ANCHORAGE BLOCKING DETAILS @ WALL

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

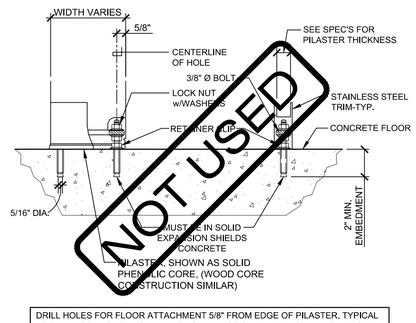


NOTE: FOR METAL STUD OPTION, SEE SHEET 20/S9.1 FOR BLOCKING.

TOILET PARTITION WALL BLOCKING
NOT TO SCALE | 3



PARTITION TO WOOD FLOOR
NOT TO SCALE | 4

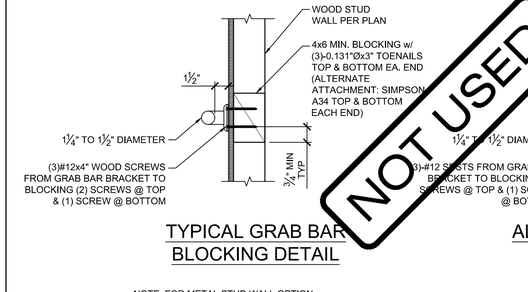


DRILL HOLES FOR FLOOR ATTACHMENT 5/8" FROM EDGE OF PILASTER, TYPICAL FOR ALL LOCATIONS. NOTE: PLACE STAINLESS STEEL TRIM ON PILASTER, SLIDE UP BEFORE SECURING PILASTER TO FLOOR ATTACHMENT.

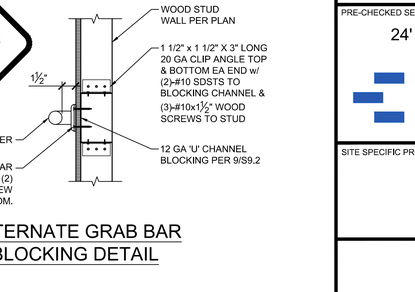
PARTITION TO CONCRETE FLOOR
NOT TO SCALE | 5

STUD NOTCHING AND BORING DETAILS

NOT TO SCALE | 2



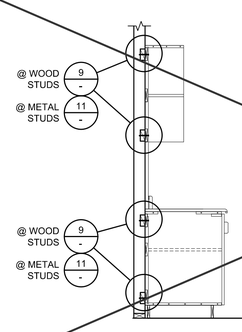
TYPICAL GRAB BAR
BLOCKING DETAIL



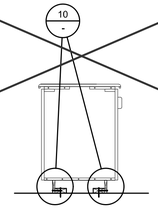
ALTERNATE GRAB BAR
BLOCKING DETAIL

NOTE: FOR METAL STUD WALL OPTION, SEE DETAILS 9&10/S9.2.

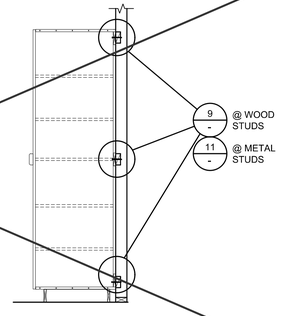
GRAB BAR BLOCKING DETAIL
SCALE: 1-1/2" = 1'-0" | 6



UPPER/BASE CABINET

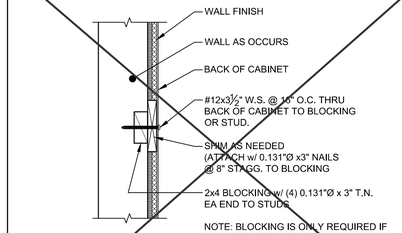


ISLAND CABINET



TALL CABINET

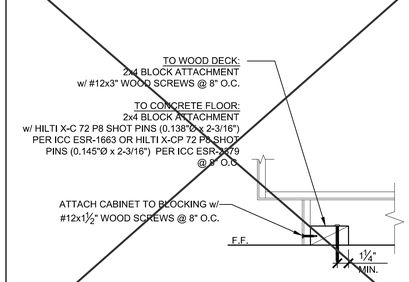
TYP. CABINET ATTACHMENT
NOT TO SCALE | 8



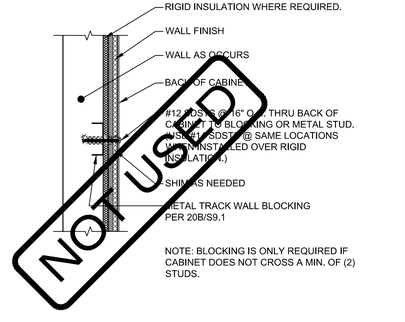
NOTE: FOR METAL STUD OPTION, SEE 11/-.

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

CABINET ATTACHMENT @ WOOD STUDS
9



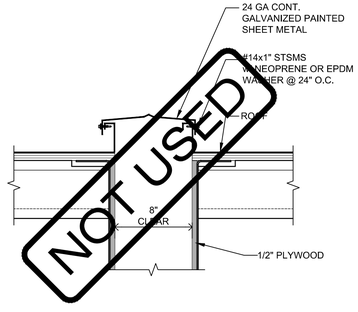
CABINET ATTACHMENT @ FLOOR
SCALE: 1-1/2" = 1'-0" | 10



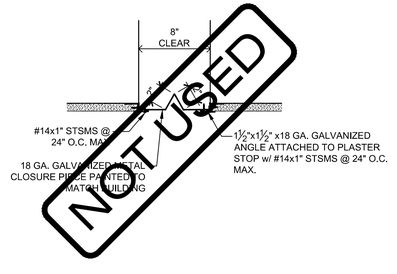
NOTE: FOR WOOD STUD OPTION, SEE 9/-.

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

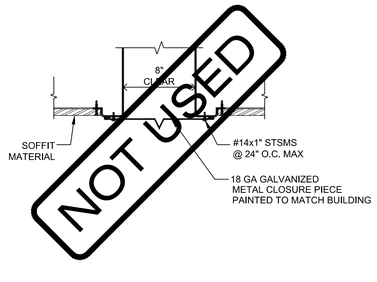
CABINET ATTACHMENT @ METAL STUDS
11



SEISMIC CLOSURE @ ROOF
12



SEISMIC CLOSURE @ WALL
13



SEISMIC CLOSURE @ SOFFIT
14

NOT USED
15

NOT USED
16

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
ANDREW PATRICK HOWARD
No. C12631
Ren. 8-31-23
STATE OF CALIFORNIA

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

REVISIONS

DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

SHEET TITLE:

MISCELLANEOUS
ARCHITECTURAL DETAILS

SHEET NUMBER:

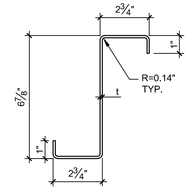
A7.1

NOT USED 1

NOT USED 2

NOT USED 3

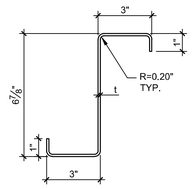
LIGHT GAUGE FLOOR JOIST PROPERTIES 5



6-7/8" x2-3/4" x14 GA. FLOOR JOIST

ASTM A1011 SS GRADE 45
F_Y = 45KSI

A = 0.98 IN^2
Sx = 2.10 IN^3
Ix = 7.22 IN^4
t = 0.068 IN. MIN.
(0.0713 IN. DESIGN)



6-7/8" x3" x12 GA. FLOOR JOIST

ASTM A1011 SS GRADE 45
F_Y = 45KSI

A = 1.43 IN^2
Sx = 3.06 IN^3
Ix = 10.54 IN^4
t = 0.097 IN. MIN.
(0.1017 IN. DESIGN)

w/ GALVANIZATION
t=0.0356 IN. MIN.

w/0 GALVANIZATION
t=0.0329 IN. MIN.
(0.035 IN. DESIGN)

EFFECTIVE SECTION PROPERTIES

Sx(t)	=	0.364 $IN.^3$	Sx(t)	=	0.330 $IN.^3$
Sx(b)	=	1.371 $IN.^3$	Sx(b)	=	0.306 $IN.^3$
Ix	=	0.863 $IN.^4$	Ix	=	0.476 IN.
			Ae	=	0.259 $IN.^2$

ASTM A1011 SS, GRADE 36
Fy = 36 ksi

A = 0.844 IN^2
Sx(t)= 0.418 IN^3
Sx(b)= 1.412 IN^3
Ix = 0.968 IN^4

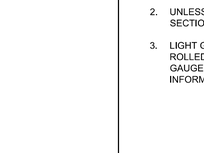
20 GA. GALVANIZED ROOF PAN PROPERTIES 7

NOT USED 8

LIGHT GAUGE ROOF PURLIN PROPERTIES 10

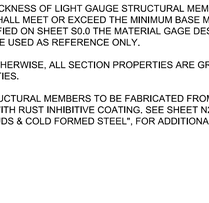
10 GA. ROOF PURLIN

ASTM = A1011 SS
GRADE = 50
Fy = 50ksi
A = 1.31 IN^2
Sx = 1.51 IN^3
Ix = 2.64 IN^4
t = 0.129 IN. MIN.
(0.1345 IN. DESIGN)



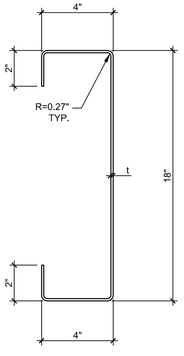
12 GA. ROOF PURLIN

ASTM = A1011 SS
GRADE = 45
Fy = 45ksi
A = 1.16 IN^2
Sx = 1.63 IN^3
Ix = 3.46 IN^4
t = 0.097 IN. MIN.
(0.1017 IN. DESIGN)



14 GA. ROOF PURLIN

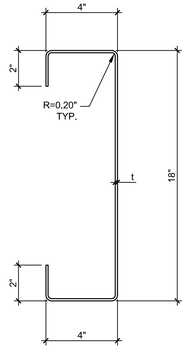
ASTM = A1011 SS
GRADE = 45
Fy = 45ksi
A = 0.98 IN^2
Sx = 2.10 IN^3
Ix = 7.22 IN^4
t = 0.068 IN. MIN.
(0.0713 IN. DESIGN)



10 GA. LONGITUDINAL BEAM

ASTM = A1011 SS
GRADE = 50
Fy = 50ksi
t = 0.129 IN. MIN.
(0.1345 IN. DESIGN)

BEAM DEPTH	18"
A (IN^2)	3.88
S_X MIN. (IN^3)	19.307
I_X MIN. (IN^4)	173.77



10 GA. TRANSVERSE HEADER

ASTM = A1011 SS
GRADE = 50
Fy = 50ksi
t = 0.129 IN. MIN.
(0.1345 IN. DESIGN)

BEAM DEPTH	18"
A (IN^2)	3.88
S_X MIN. (IN^3)	19.307
I_X MIN. (IN^4)	173.77

LIGHT GAUGE ROOF BEAM PROPERTIES 18

NOT USED 19

NOT USED 14

NOT USED 15

SHEET NOTES

1. THE MATERIAL THICKNESS OF LIGHT GAUGE STRUCTURAL MEMBERS, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED ON SHEET S0.0 THE MATERIAL GAGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.
2. UNLESS NOTED OTHERWISE, ALL SECTION PROPERTIES ARE GROSS SECTION PROPERTIES.
3. LIGHT GAUGE STRUCTURAL MEMBERS TO BE FABRICATED FROM HOT ROLLED SHEETS WITH RUST INHIBITIVE COATING. SEE SHEET N2.0, "LIGHT GAUGE METAL STUDS & COLD FORMED STEEL", FOR ADDITIONAL INFORMATION.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — ROGER PATRICK HOWE — No. C12631 Ren. 3-31-23 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — MANNY D. FRIAS — No. 31380 — STRUCTURAL — STATE OF CALIFORNIA

08/06/2021
RST#20079

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

REVISIONS

DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

SHEET TITLE:

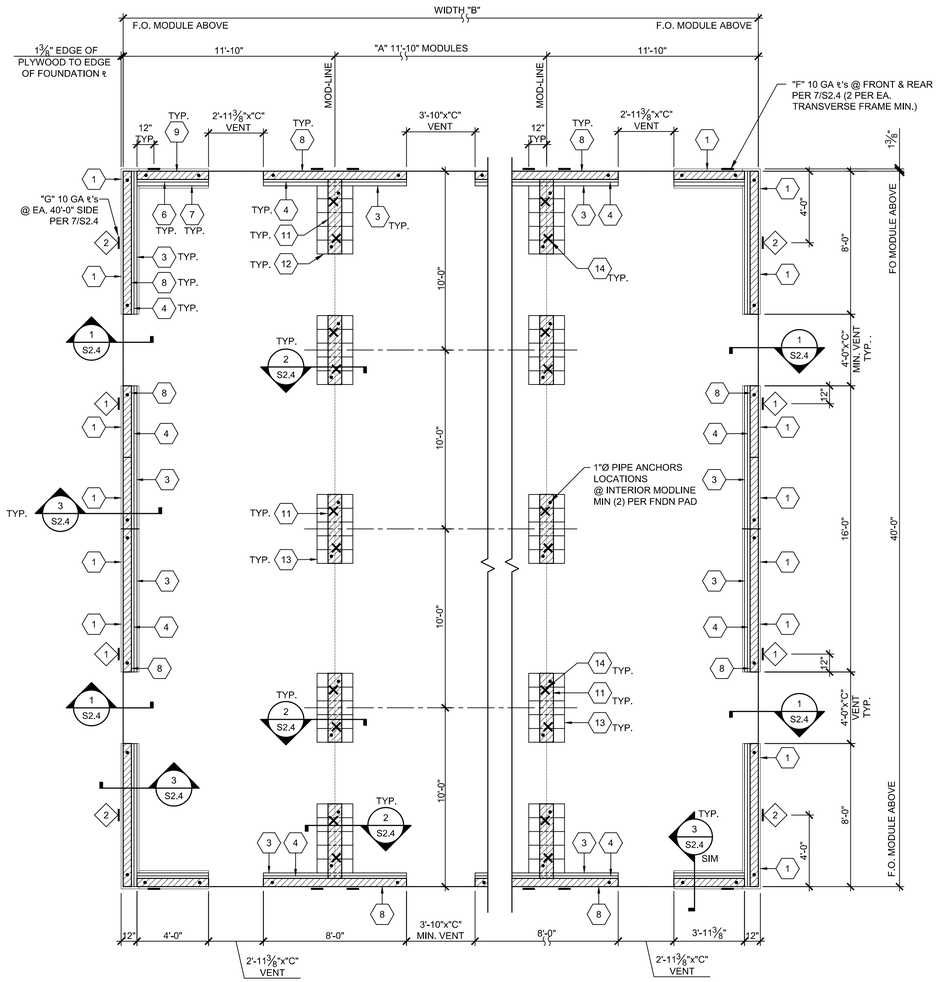
LIGHT GAUGE STEEL MEMBER PROPERTIES

SHEET NUMBER:

S0.0

ID: XXXXX_{64-04}{ROBOTS}{db-08}-{db-09}-{db-10}{2021}{08}{06}T{09}{57}{58}{-08}{00}{Rvt Project}{C:\Users\mfrias\DROPBO~1\Revit\Models\2021\2021_2GO_Template_Model_mfrias_central_detached.rvt}{db-08}-{db-09}-{db-10}{2021}{08}{06}T{09}{57}{58}{-08}{00}{Rvt Project}{C:\Users\mfrias\DROPBO~1\Revit\Models\2021\2021_2GO_Template_Model_mfrias_central_detached.rvt}{2021}{Revit}{23.0.0.507}{db-08}-{db-09}-{db-10}{2021}{08}{06}T{09}{57}{58}{-08}{00}{Rvt Project}{C:\Users\mfrias\DROPBO~1\Revit\Models\2021\2021_2GO_Template_Model_mfrias_central_detached.rvt}{2021}{Revit}{23.0.0.507}{db-08}-{db-09}-{db-10}{2021}{08}{06}T{09}{57}{58}{-08}{00}{Rvt Project}{C:\Users\mfrias\DROPBO~1\Revit\Models\2021\2021_2GO_Template_Model_mfrias_central_detached.rvt}{2021}{Revit}{23.0.0.507}{db-08}-{db-09}-{db-10}{2021}{08}{06}T{09}{57}{58}{-08}{00}{Rvt Project}{C:\Users\mfrias\DROPBO~1\Revit\Models\2021\2021_2GO_Template_Model_mfrias_central_detached.rvt}{2021}{Revit}{23.0.0.507}{db-08}-{db-09}-{db-10}{2021}{08}{06}T{09}{57}{58}{-08}{00}{Rvt Project}{C:\Users\mfrias\DROPBO~1\Revit\Models\2021\2021_2GO_Template_Model_mfrias_central_detached.rvt}{2021}{Revit}{23.0.0.507}

REAR



FRONT

1	½" x 12" WIDE x 48" LONG PT STRUCTURAL PLYWOOD WITH FACE GRAIN IN SHORT DIRECTION (CDX PLYWOOD)
2	NOT USED
3	SINGLE PT 2 x 10 x 8'-0" LONG ℄
4	SINGLE 2 x 8 x 8'-0" LONG
5	NOT USED
6	SINGLE 2 x 8 x 4'-0" LONG ℄
7	SINGLE 2 x 10 x 4'-0" LONG ℄
8	MULTIPLE 2 x 6 x 8'-0" LONG NAILER AS REQ'D FOR HEIGHT
9	MULTIPLE 2 x 6 x 4'-0" LONG NAILER AS REQ'D FOR HEIGHT
10	NOT USED
11	2 x 10 BLKG, SEE 2/S2.4
12	(5) 2x12x2'-0" PT ℄ OR (7) 2x10x2'-0" PT ℄ OR (8) 2x8x2'-0" PT ℄, SEE 2/S2.4
13	(5) 2x12x2'-0" PT ℄ OR (6) 2x10x2'-0" PT ℄ OR (7) 2x8x2'-0" PT ℄, SEE 2/S2.4
14	✕ LOCATION OF FLOOR BEAM ATTACHMENT TO ISOLATED PAD. REFER TO DETAIL 2/S2.4
	● 1"Ø GALVANIZED PIPE LOCATIONS - TYPICAL. MINIMUM (2) PER FNDN SECTION AT "B" WALLS, 40' WALLS & MODLINES AS SHOWN ON PLAN

KEY NOTES

ON SOIL:
1"Ø STANDARD WEIGHT (1.315 ACTUAL O.D.) HOT DIPPED GALV. PIPE w/ 12" MIN. PENETRATION MEASURED VERTICALLY BELOW SOIL SURFACE @ 10'-0" O.C., MIN. 2 EA. 2x ℄, DRILL SILL 1⅜"Ø MAX. PIPE MAY BE DRIVEN MAX 45° ANGLE TO VERTICAL.

ON A/C PAVING:
1"Ø STANDARD WEIGHT (1.315 ACTUAL O.C.) HOT DIPPED GALV. PIPE w/ 12" MIN. PENETRATION MEASURED VERTICALLY BELOW PAVING SURFACE @ 10'-0" O.C., MIN. 2 EA 2x ℄. DRILL SILL 1⅜"Ø MAX.

ON CONC PAVING:
1"Ø STANDARD WEIGHT (1.315 ACTUAL O.D.) HOT DIPPED GALV. PIPE w/ 12" MIN. PENETRATION MEASURED VERTICALLY BELOW PAVING SURFACE @ 10'-0" O.C., MIN. 2 EA. 2x ℄. DRILL SILL 1⅜"Ø MAX.
ALT. SIMPSON SS (STAINLESS STEEL) STRONG-BOLT 2'S THRU SILL ℄ w/ MIN. CONC. EMBEDMENT PER SCHEDULE BELOW (PROVIDE A MINIMUM OF 2 BOLTS AT 2x PLATE LESS THAN 5'-0" AND 4 BOLTS AT 2x PLATE LARGER THAN 5'-0"). ANCHOR BOLTS SHALL BE CENTERED ON THE 2x PLATES AND LOCATED NO CLOSER THAN 4" FROM THE END OF THE PLATES.

SIMPSON SS STRONG-BOLT 2 O.C. SPACING SCHEDULE (IN.)			
BUILDING SIZE	MAX. LONGITUDINAL SPACING @ 40' SIDEWALLS	MAX. LONGITUDINAL SPACING @ MODLINES	MAX. TRANSVERSE SPACING
☐ 24'x40'	80	24	23
☒ 36'x40'	78	23	21
☐ 48'x40'	80	23	25

ANCHOR TYPE	SIMPSON SS STRONG-BOLT 2 ICC ESR-3037
ANCHOR SIZE (IN.)	½"ø
MIN. CONC. THICKNESS (IN.)	4½"
MIN. NOMINAL EMBED (IN.)	2¾"
MIN. HOLE DEPTH (IN.)	3"
MIN. CONC. EDGE DISTANCE - ANY DIRECTION (IN.)	6½"
INSTALLATION TORQUE (FT-LB)	65

1. TORQUE TEST PER CBC 1910A.5 TORQUE TEST - MANUFACTURER'S RECOMMENDED INSTALLATION TORQUE AS APPROVED IN AN ICC-ESR PER C.B.C 1910A.5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — PATRICK GAVIN HOWARD — No. C12631 Ren. 3-31-23 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — MANNY D. FRANCISCO — No. 33380 — STRUCTURAL — STATE OF CALIFORNIA

08/06/2021

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

REVISIONS

DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

SHEET TITLE:

WOOD FOUNDATION PLAN
50 PSF LIVE LOAD + 15 PSF
PARTITION LOAD

SHEET NUMBER:

S2.1

WOOD FOUNDATION PLAN (PLYWOOD FLOOR) 50 P.S.F LIVE LOAD + 15 PSF PARTITION LOAD

SCALE: 1/4"=1-0"

A

SILL RESTRAINT

	BUILDING SIZE (FT)	TOTAL # OF 12' WIDE MODULES	"A" TOTAL # OF CENTER MODULES	"B" TOTAL FOUNDATION WIDTH	TOTAL FLOOR AREA (FT^2)	NET FREE VENT AREA REQ'D (FT^2)	"C" MINIMUM HT OF VENTS (IN)	NET FREE VENT AREA PROVIDED @ 0.73 CLR COVERAGE PER SHEET NOTES (FT^2)	"D" GALV. NAIL O.C. SPACING (IN) (40' WALLS) SEE 3/S2.4	"E" GALV. NAIL O.C. SPACING (IN) ("B" WALLS) SEE 3/S2.4	"F" # OF 10 GA. SHEAR ℄'S @ FRONT & REAR SEE 3/2.4	"G" # OF 10 GA. SHEAR ℄'S @ SIDES (40' WALLS) SEE 3 & 7/S2.4		"H" EDGE NAIL (EN) SPACING (IN) (40' WALLS) SEE 3/S2.4	"J" EDGE NAIL (EN) SPACING (IN) ("B" WALLS) SEE 3/S2.4	"K" # OF ALT. SHEAR ℄'S @ "B" WALLS (2 PER MOD MIN.) SEE 5/S2.4	"L" GALV. NAIL O.C. SPACING (IN) (MODLINES) SEE 2/S2.4
												# OF ℄'S	℄ LOCATIONS				
☐	24'x40'	2	0	23'-8"	960	6.4	4.5	7.6	12	6	4/SIDE	4/SIDE	1 2	6	3	5/SIDE	9
☒	36'x40'	3	1	35'-6"	1440	9.6	4.5	9.7	12	6	6/SIDE	4/SIDE	1 2	6	3	7/SIDE	9
☐	48'x40'	4	2	47'-4"	1920	12.8	6.0	15.7	12	8	8/SIDE	4/SIDE	1 2	6	4	9/SIDE	9

MODULE SCHEDULE - 48' x 40' MAX

B

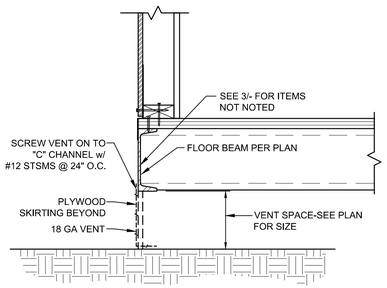
SHEET NOTES

1. TOP OF WOOD PADS TO BE LEVEL.
2. DO NOT INSTALL BUILDINGS IN AREAS OF WATER LINES.
3. SITE TO BE GRADED TO PREVENT WATER PONDING BENEATH THE STRUCTURE.
4. FOUNDATION WOOD TO BE CUT PERPENDICULAR TO THE FACE GRAIN.
5. PER THE CONTRACT OF THIS PROJECT- THE BUILDING PAD MUST BE A MINIMUM OF 38'-0" FRONT TO REAR, BUILDING WIDTH PLUS 6'-0" SIDE TO SIDE AND SHALL NOT EXCEED 6" OUT OF LEVEL IN ANY DIRECTION.
6. PROJECT ARCHITECT SHOULD VERIFY THE NET AREA OF THE VENT COVER BE EQUAL TO OR LARGER THAN THE VENT AREA REQUIRED SHOWN ON THE TABLE.
7. VENT NET AREA REQUIRED (NFA) IS BASED ON A 1:150 VENTILATION RATIO OF THE NOMINAL BUILDING FLOOR AREA. VENT NFA PROVIDED IS THE ACTUAL VENT GROSS OPEN AREA WITH A MINIMUM REDUCTION PERCENTAGE OF 73% DUE TO THE VENT COVER.

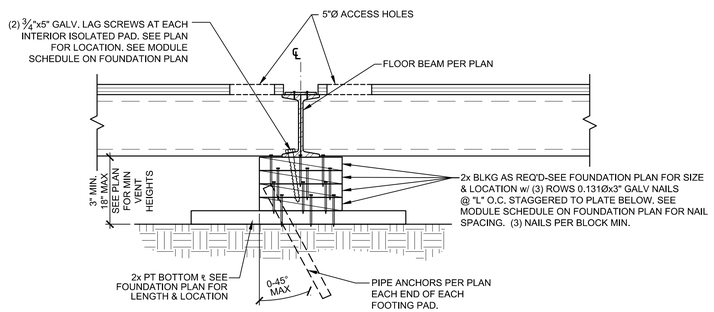
FOUNDATIONS:
ALL FOUNDATION MATERIALS IN CONTACT WITH THE GROUND SHALL BE PRESSURE TREATED OR REDWOOD EXCEPT SHIMS MAY BE REDWOOD, HEM FIR OR CEDAR. PRESSURE TREATED DOUGLAS FIR, HEM FIR, PLYWOOD ETC. SHALL BE VERIFIED BY A CERTIFICATE OF TREATMENT STATING "THE MATERIAL IN THIS UNIT WAS TREATED PER 2019 CALIFORNIA BUILDING CODE. ALL MATERIAL FOR USE IN GROUND CONTACT SHALL BE STAMPED "FOR GROUND CONTACT" (U1 & T1). ALL MATERIAL NOT USED IN GROUND CONTACT SHALL BE HF#2 OR DF#2 "FOR ABOVE GROUND USE." THE IN-PLANT INSPECTOR SHALL VERIFY THAT ALL PRESSURE TREATED FOUNDATION MATERIAL IS CUT FROM AWPA STAMPED STOCK AND THAT ALL CUTS AND HOLES ARE RETREATED PER SPECIFICATIONS. U1 AND T1 MATERIAL SHALL BE BANDED SEPARATELY FOR SHIPMENT TO THE JOB SITE. THE IN-PLANT INSPECTOR'S VERIFICATION OF EACH BANDED UNIT SHALL BE ATTACHED TO THE MATERIAL. CONCRETE OR CONCRETE BLOCK FOUNDATIONS ARE NOT ALLOWED. THE FOOTING DESIGN SHALL PROVIDE FOR SHIMS AND BLOCKS NECESSARY TO PERMIT INSTALLATION ON SITES NOT LEVEL, BUT WITHIN TOLERANCE ALLOWED. INSTALLATION SHALL BE PERMITTED ON EITHER SOIL, CONCRETE OR A/C PAVING, HAVING SUITABLE DESIGN BEARING CAPACITY. THE BUILDINGS SHALL BE SECURELY FASTENED TO THE FOUNDATIONS. THE FOUNDATIONS AND THE METHOD OF FASTENING SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT AND DSA. PADS SHALL BE DESIGNED FOR A MAXIMUM OF 1000 PSF LOAD ON THE SOIL. PADS SHALL NOT BE PLACED ON TURF.

A VAPOR RETARDING MOISTURE BARRIER SHALL BE INSTALLED UNDER THE FLOOR WHEN THE BUILDING IS INSTALLED LESS THAN 12" ABOVE THE SOIL. A BARRIER IS NOT REQUIRED AT HEIGHT IF THE BUILDING IS INSTALLED OVER CONCRETE (INCLUDING A RAT SLAB) OR A/C/ PAVING.

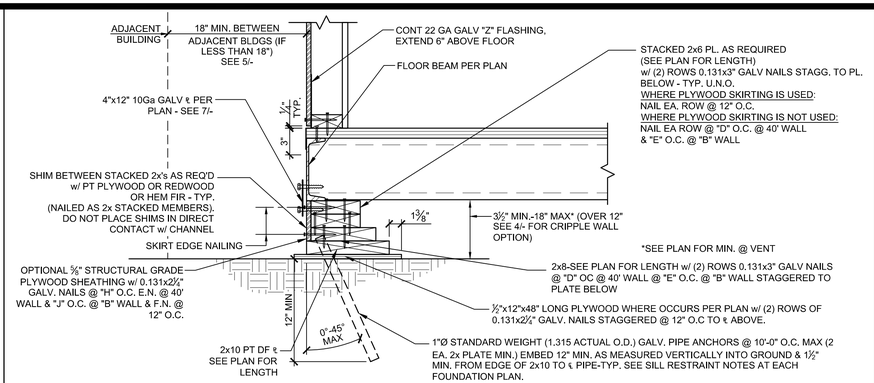
SS-XXXX-XX - [redacted] - [redacted] - [redacted]



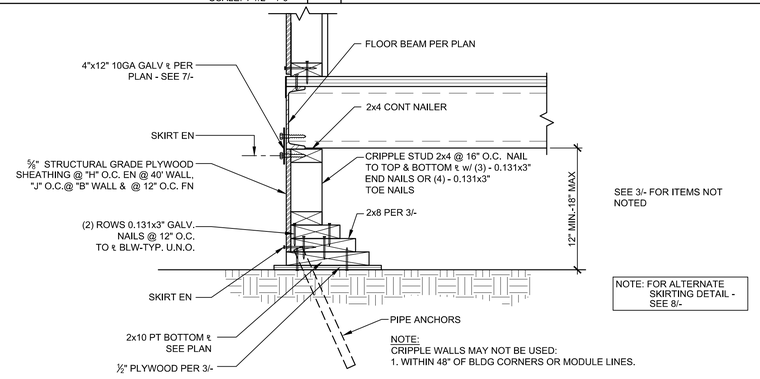
FOUNDATION DETAIL SCALE: 1 1/2"=1-0" 1



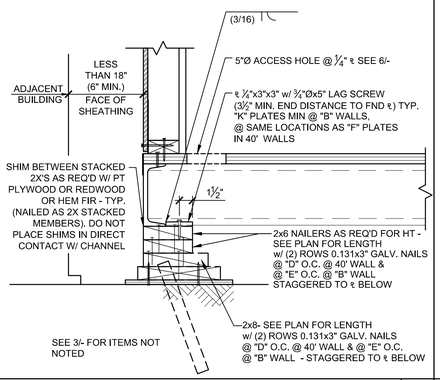
FOUNDATION DETAIL SCALE: 1 1/2"=1-0" 2



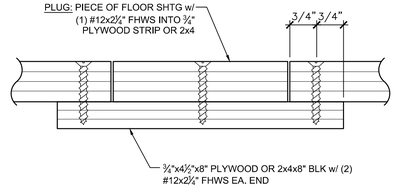
FOUNDATION DETAIL SCALE: 1 1/2"=1-0" 3



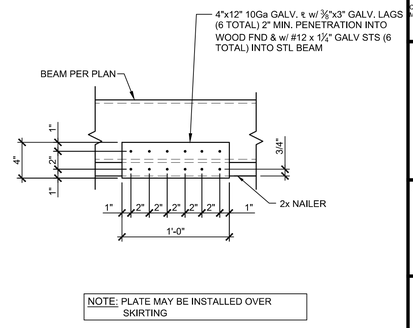
FOUNDATION DETAIL SCALE: 1 1/2"=1-0" 4



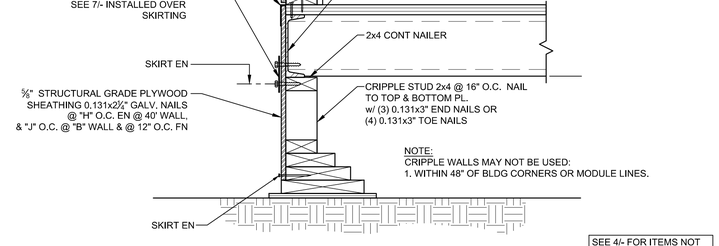
FOUNDATION DETAIL SCALE: 1 1/2"=1-0" 5



FILLER ACCESS HOLE DETAIL SCALE: 1 1/2"=1-0" 6



FOUNDATION DETAIL SCALE: 1 1/2"=1-0" 7



ALTERNATE SKIRTING DETAIL SCALE: 1 1/2"=1-0" 8

NOT USED 9

NOT USED 10

NOT USED 11

NOT USED 12

NOT USED 13

NOT USED 14

NOT USED 15

NOT USED 16

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — PATRICK CONNOR HOWE — No. C12631 — Ren. 8-31-23 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — MANNY D. FRIAS — No. 33380 — STRUCTURAL — STATE OF CALIFORNIA

08/06/2021

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

REVISIONS

DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

SHEET TITLE:

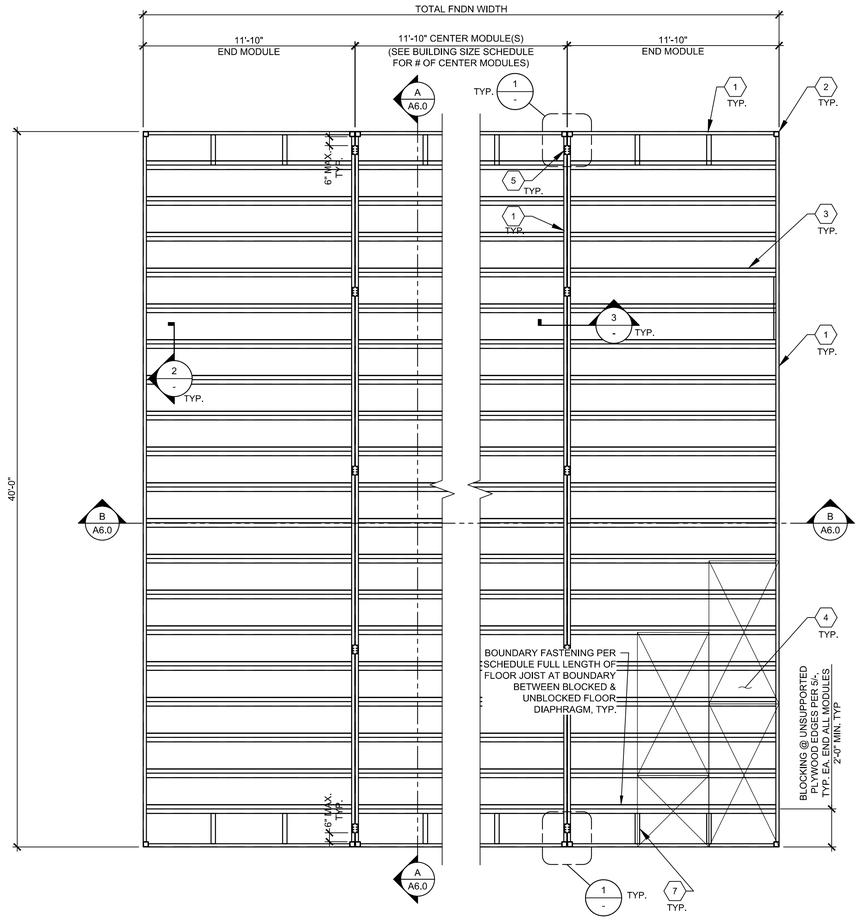
WOOD FOUNDATION DETAILS

SHEET NUMBER:

S2.4

ID:XXXXX_{64452df0f8f0e3ac3dc1b5c9}_{20210730135333}.rte file://homeshare/projects/2021/Filed/Batch/20210804/Batch/Work/2021/20210730135333-64452df0f8f0e3ac3dc1b5c9.rte

REAR

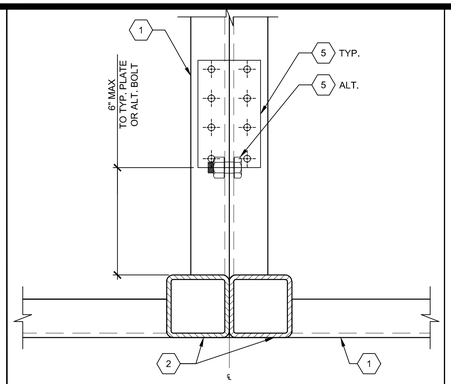


FRONT

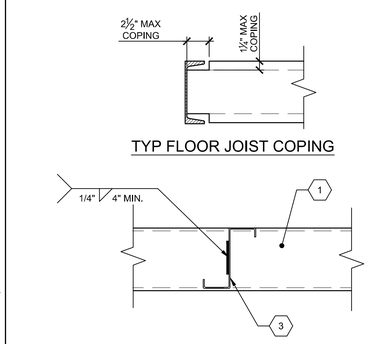
FLOOR JOIST SCHEDULE		
LIVE LOAD PSF	14 GA. JOIST	12 GA. JOIST
☐ 50 PSF	24" O.C.	24" O.C.
☒ 50+15 PSF	24" O.C.	24" O.C.
☐ 100 PSF	24" O.C.	24" O.C.

NOTE: FOR SECTION PROPERTIES - SEE S0.0

FRAMING PLAN (PLYWOOD FLOOR) SCALE : 1/4" = 1'-0" | A



TYP. FLOOR BEAMS CONNECTION SCALE : 3" = 1'-0" | 1



TYP. FLOOR JOIST COPING

TYP. JOIST ATTACTMENT TO BEAM SCALE : 3" = 1'-0" | 2

1 FLOOR BEAM PER SHEET S5.0. USE SINGLE SIZE CHANNEL THROUGHOUT FLOOR SYSTEM.

2 HSS COLUMN PER SHEET S5.0

3 FLOOR JOIST - SEE SCHEDULE

4 1⅛" T&G PLYWOOD FLOOR SHTG STURDI-FLOOR 48" O.C. SPAN RATING EXP. 1 CONFORMING TO PS 1-09, 2 SPANS MIN. OPTION: UNI-FLOOR BY PITTSBURGH TESTING LAB CONFORMING TO PS 1-09, STAGGER SHEETS 48" O.C. AS SHOWN w/ FACE GRAIN PERPENDICULAR TO FLOOR JOISTS. FASTEN PER SCHEDULES.

5 PLATE ⅜"x3½"x6" @ 10'-0" O.C. MAX w/ (8) #12x1" SDSTS; SEE DETAIL 3/-. ALTERNATE: ½"Øx1½" MB @ 10'-0" O.C. MAX AND 6" MAX FROM EACH END OF MODULE. BOLT Ø $\pm\frac{1}{16}$" MAX HOLE THRU CHANNELS; SEE DETAIL 3/-.

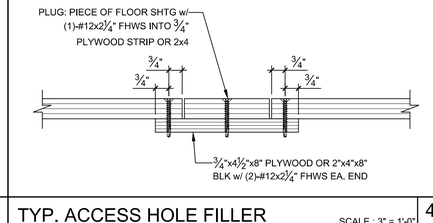
6 NOT USED

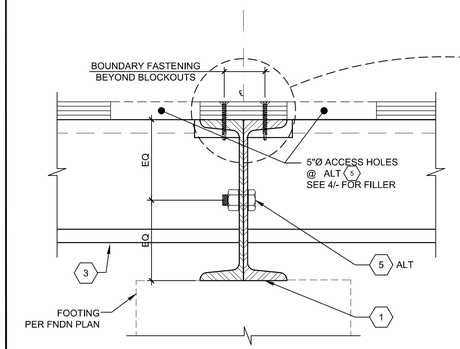
7 2 ¾"x2 ¾"x 14Ga. BLOCKING ANGLE PER DETAIL 5/-, AT UNSUPPORTED PLYWOOD EDGES WHERE SPECIFIED ON THE FLOOR FRAMING PLAN.

KEY NOTES

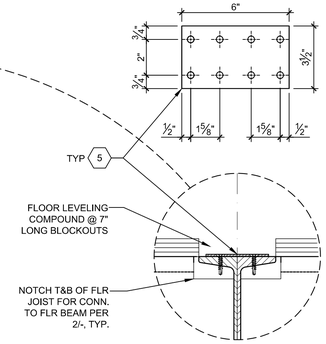
1. NOT USED
2. THE MATERIAL THICKNESS OF LIGHT GAUGE STRUCTURAL MEMBERS, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED ON SHEET S0.0. THE MATERIAL GAUGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.
3. SDSTS PER ASTM C1513.
4. ET&F PINS PER IAPMO REPORT ER-335

GENERAL NOTES



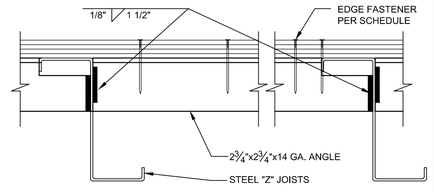


TYP. BEAM TO BEAM CONNECTION SCALE : 3" = 1'-0" | 3



DETAIL @ CONN. PLATE

TYP. ACCESS HOLE FILLER SCALE : 3" = 1'-0" | 4



OPTIONAL BLOCKING ANGLE ATTACHMENT SCALE : 3" = 1'-0" | 5

NOT USED | 6

BUILDING SIZE SCHEDULE			
BUILDING SIZE (FT)	TOTAL # OF 12'-0" WIDE MODULES	TOTAL # OF CENTER MODULES	TOTAL FNDN WIDTH
☐ 24'x40'	2	0	23'-8"
☒ 36'x40'	3	1	35'-6"
☐ 48'x40'	4	2	47'-4"

BUILDING SIZE SCHEDULE

TYP. FASTENER SPACING SCHEDULE		
BOUNDARY FASTENING*	EDGE FASTENING	FIELD FASTENING
#10 OR #12x2½" SDSTS	0.144"Øx2" ET&F PINS	0.144"Øx2" ET&F PINS
6" O.C.	6" O.C.	12" O.C.

*BOUNDARY FASTENING IS APPLIED TO PERIMETER OF ALL MODULES ALONG FRAME LINES

NOTE: SCHEDULE APPLIES TO ALL FLOOR LIVE LOADS

TYPICAL FASTENER SPACING SCHEDULE

ALT. FASTENER SPACING SCHEDULE		
BOUNDARY FASTENING*	EDGE FASTENING	FIELD FASTENING
#10 OR #12x2½" SDSTS	#10 OR #12x2½" SDSTS	#10 OR #12x2¼" SDSTS
6" O.C.	6" O.C.	12" O.C.

*BOUNDARY FASTENING IS APPLIED TO PERIMETER OF ALL MODULES ALONG FRAME LINES

NOTE: SCHEDULE APPLIES TO ALL FLOOR LIVE LOADS

ALTERNATE FASTENER SPACING SCHEDULE

NOT USED | 7

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — ROBERT PATRICK GUNNING — No. C12631 Ren. 3-31-23 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — MANNY D. FRANCISCO — No. 13380 — STRUCTURAL — STATE OF CALIFORNIA

08/06/2021

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

REVISIONS

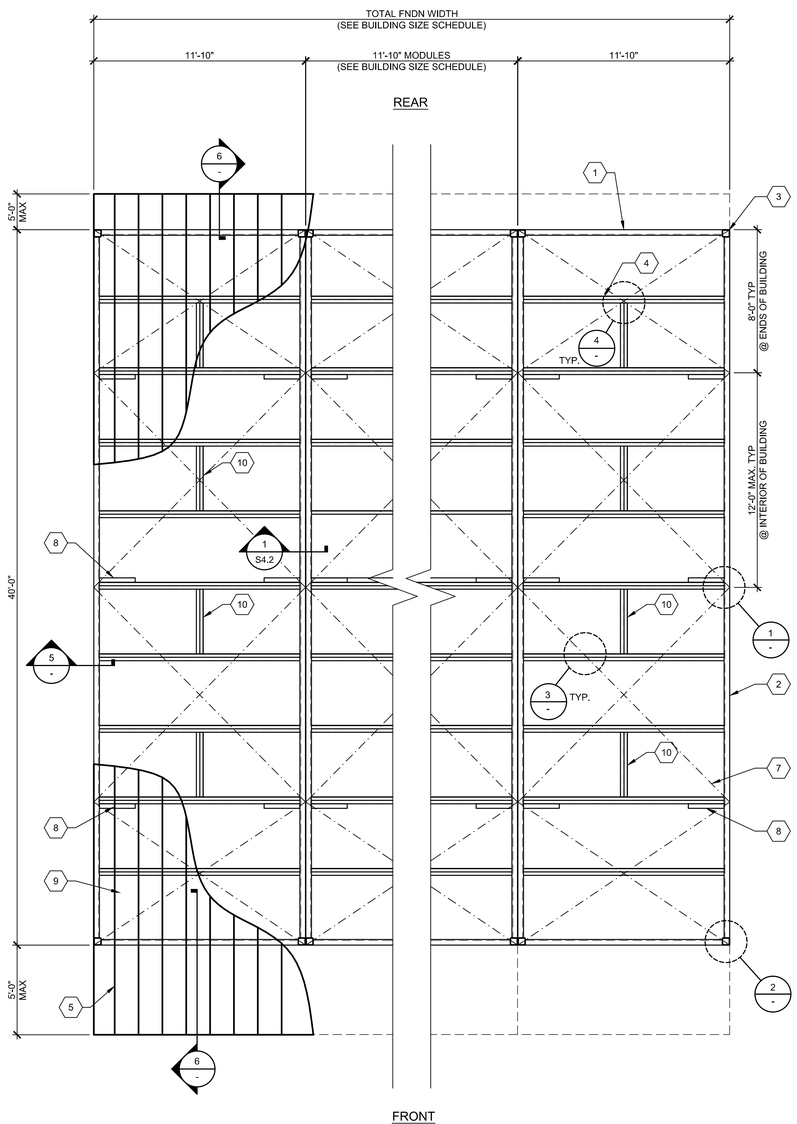
DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

SHEET TITLE:

FLOOR FRAMING PLAN & DETAILS FOR PLYWOOD FLOOR

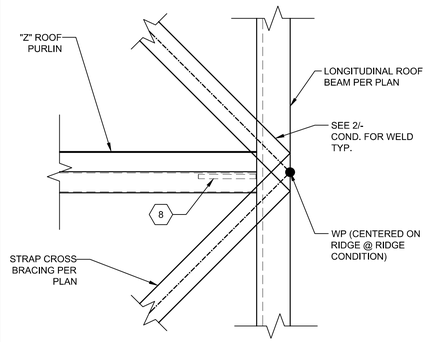
SHEET NUMBER:

S3.0



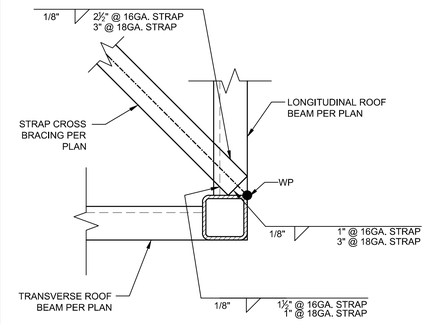
TYPICAL ROOF FRAMING LAYOUT

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



TYP. CROSS BRACING DETAILS

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

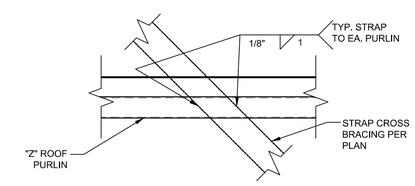


TYP. CROSS BRACING DETAILS

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

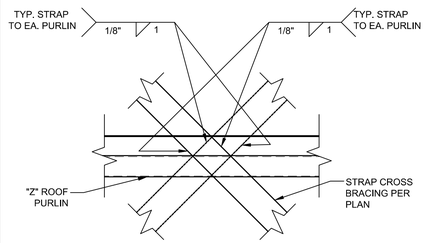
1. THE MATERIAL THICKNESS OF LIGHT GAUGE STRUCTURAL MEMBERS IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED ON SHEET S0.0. THE MATERIAL GAUGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.
2. SEE SHEET S8.0 FOR TYP. SIDE WALL FRAMING.
3. SEE SHEET S8.0 FOR TYP. END WALL FRAMING.
4. ALL FASTENERS THRU METAL ROOF PANEL SHALL BE INSTALLED w/NEOPRENE WASHERS.

GENERAL NOTES



TYP. CROSS BRACING DETAILS

SCALE: 1 1/2"=1'-0" | 3



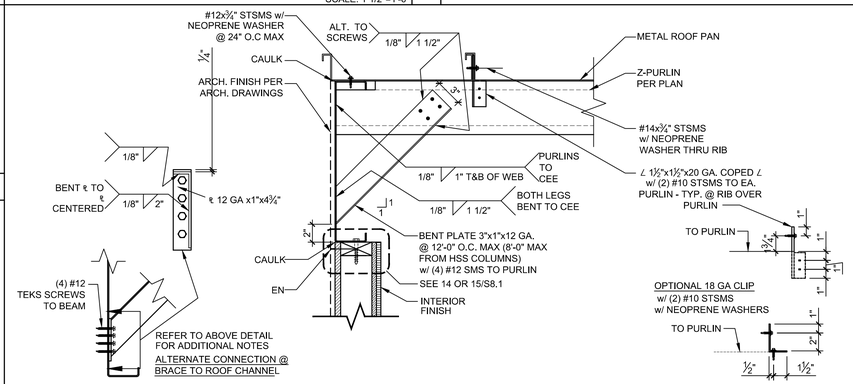
TYP. CROSS BRACING DETAILS

SCALE: 1 1/2"=1'-0" | 4

NOT USED

KEY NOTES

1. TRANSVERSE ROOF BEAM PER SHEET S5.0.
2. LONGITUDINAL ROOF BEAM PER SHEET S5.0.
3. HSS COLUMN PER SHEET S5.0.
4. ROOF PURLINS @ 48" O.C. MAX. -SEE SHEET S0.0
5. METAL ROOF PAN - SEE SHEET S0.0.
6. NOT USED
7. 2"x16 GA. STRAP CROSS BRACING GRADE 50 ALTERNATE: CROSS BRACING 3"x18 GA. GRADE 50 NOTE: FLAT STRAP SHALL BE PULLED TAUT, ELIMINATING ANY SAGGING OF THE STRAP, PRIOR TO THE STRAP BEING WELDED TO THE FRAMING.
8. 3x1x12 GA. BENT PLATE DIAGONAL BRACE TO ROOF BEAM @ 12'-0" O.C. MAX (8'-0" MAX FROM HSS COLUMNS) & AT ROOF STRAP CROSS BRACING LOCATIONS PER 1/-. SEE DETAIL 5/- @ BEAMS. PROVIDE PURLIN BLOCKING @ EACH BRACE @ END MODULES ONLY PER (10) BELOW
9. NOT USED
10. MID-SPAN PURLIN BLOCKING WELD TO ROOF PURLINS PER DETAIL 3/S4.2 BLOCKING IS ONLY REQUIRED AT END MODULES AT PURLINS WITH DIAGONAL BEAM BRACING AT EXTERIOR SIDE WALLS PER (8) ABOVE.

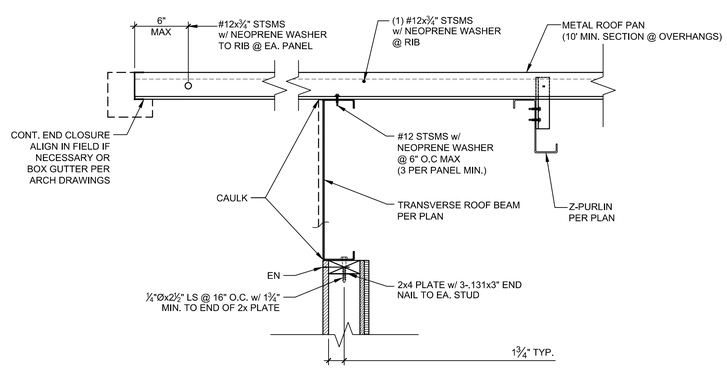


SIDE WALL TO ROOF BEAM DETAIL @ ROOF CHANNEL

SCALE: 1 1/2"=1'-0" | 5

BUILDING SIZE SCHEDULE			
BUILDING SIZE (FT)	TOTAL # OF 12'-0" WIDE MODULES	TOTAL # OF CENTER MODULES	TOTAL FNDN WIDTH
☐ 24'x40'	2	0	23'-8"
☒ 36'x40'	3	1	35'-6"
☐ 48'x40'	4	2	47'-4"

BUILDING SIZE SCHEDULE



OVERHANG DETAIL

SCALE: 1 1/2"=1'-0" | 6

NOT USED

6A

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — KEVIN PATRICK CHANG — No. C12631 Ren. 3-31-23 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — MANNY D. FRANCISCO — No. 13380 — STRUCTURAL — STATE OF CALIFORNIA

08/06/2021

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

REVISIONS

DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

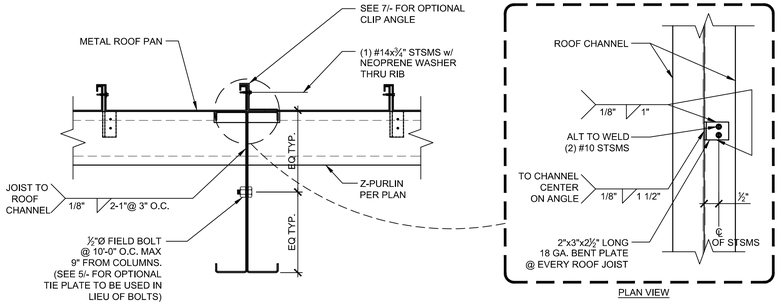
SHEET TITLE:

ROOF FRAMING PLAN & DETAILS

SHEET NUMBER:

S4.0

ID:XXXX - [illegible]

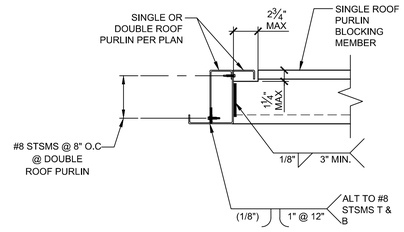


ROOF BEAM CONNECTION DETAIL

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

NOT USED

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



BLOCKING & DBL PURLIN CONNECTION DETAIL

SCALE: 1 1/2"=1'-0" | 3

NOT USED

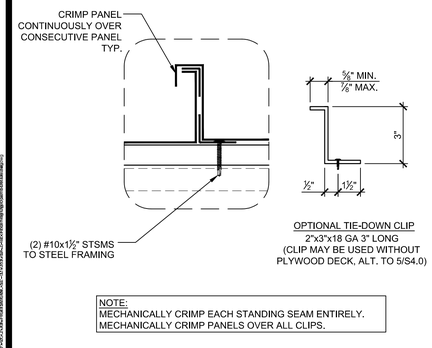
SCALE: 1 1/2"=1'-0" | 4

NOT USED

5

NOT USED

6



NOTE:
MECHANICALLY CRIMP EACH STANDING SEAM ENTIRELY.
MECHANICALLY CRIMP PANELS OVER ALL CLIPS.

ROOF DETAIL

(OPTIONAL ROOF PAN CLIP)
SCALE: 1 1/2"=1'-0" | 7

NOT USED

8

NOT USED

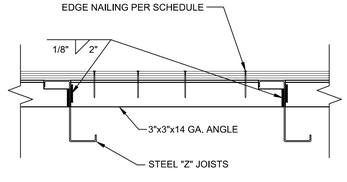
9

NOT USED

10

NOT USED

11



TYP. ANGLE TO Z-PURLIN ATTACHMENT

SCALE: 1 1/2"=1'-0" | 12

NOT USED

13

NOT USED

14

NOT USED

15

1. THE MATERIAL THICKNESS OF LIGHT GAUGE STRUCTURAL MEMBERS, IN THEIR END-USE, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED ON SHEET S0.0 THE MATERIAL GAGE DESIGNATION IN THE PLAN SHALL BE USED AS REFERENCE ONLY.

GENERAL NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
ANDREW PATRICK O'HEARN
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRANCIS
No. 31380
STRUCTURAL
STATE OF CALIFORNIA

08/06/2021

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

REVISIONS

DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

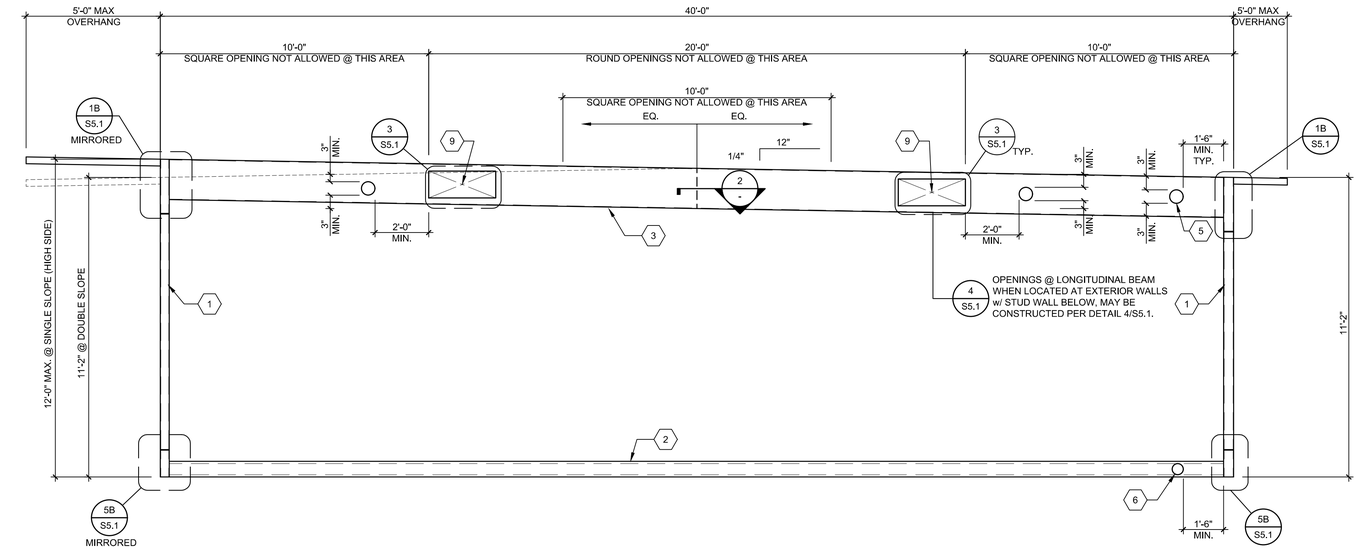
SHEET TITLE:

ROOF FRAMING DETAILS

SHEET NUMBER:

S4.2

D:\XXXX - [Redacted]\Revit\Models\[Redacted].rvt 10/20/2021 9:08:38 PM [Redacted]

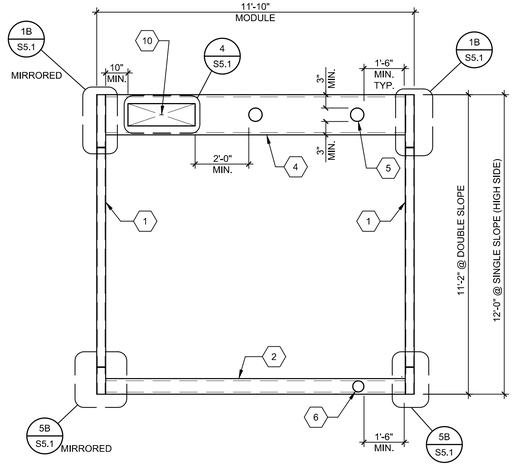


FRONT

REAR

TYPICAL LONGITUDINAL FRAME ELEVATION

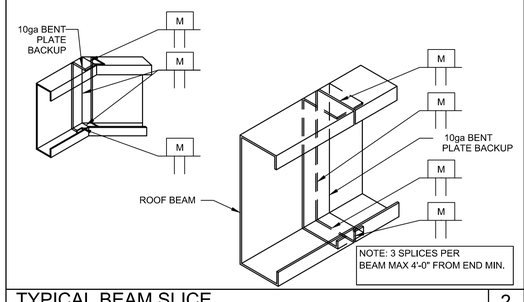
SCALE: 3/8"=1'-0"



TYPICAL TRANSVERSE FRAME ELEVATION

SCALE : 3/8"=1'-0" | 4

THE WELDING PROCEDURE QUALIFICATION TEST RECORD AND WELDING PROCEDURE SPECIFICATION FOR THIS WELD SHALL BE PREPARED IN ACCORDANCE WITH AWS D1.1-10 & D1.3-08 AND SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND SUBMITTAL TO THE D.S.A. TYPICAL ALL DETAILS THIS SHEET. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCHTOUGHNESS OF 20 FT.-LBS AT ZERO DEGREES F, AS DETERMINED BY AWS CLASSIFICATION.

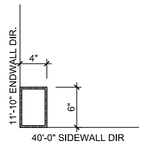


TYPICAL BEAM SLICE

SCALE: 1 1/2"=1'-0" | 5

NOT USED

FLOOR BEAMS	COLUMNS	LONGITUDINAL ROOF CHANNEL	TRANSVERSE ROOF CHANNEL
C7x9.8	HSS 6x4x¼ (ASTM A1085 - Fy = 50ksi (SEE ORIENTATION BELOW)	10 GA.	10 GA.



NOTE: SEE ALL SECTION PROPERTIES ON SHEET S0.0

FRAME MEMBER SCHEDULE

3

NOT USED

3

KEY NOTES

1. HSS COLUMN - SEE SCHEDULE 3/- BELOW.
2. FLOOR BEAM - SEE SCHEDULE 3/- BELOW.
3. LONGITUDINAL ROOF BEAM - SEE SCHEDULE 3/- BELOW.
4. TRANSVERSE ROOF BEAM - SEE SCHEDULE 3/- BELOW.
5. 6"Ø MAX OPENING IN WEB OF ROOF BEAM WITHOUT WEB REINFORCEMENT MINIMUM SPACING OF HOLES @ 48" O.C., HOLES MAY OCCUR @ ANY LOCATION ALONG LENGTH OF ROOF BEAM EXCEPT AS NOTED OTHERWISE ON FRAMING ELEVATION. - SEE 6/S5.1.

   NOTE: IF HOLE IS 3" OR LESS, THEY MAY BE SPACED @ 24" O.C. MINIMUM.
6. 4"Ø MAX OPENING IN WEB OF FLOOR BEAM WITHOUT WEB REINFORCEMENT MINIMUM SPACING OF HOLES @ 48" O.C. HOLES MAY OCCUR @ ANY LOCATION ALONG LENGTH OF FLOOR BEAM WITH DIRECT FOUNDATION SUPPORT BELOW. OPENINGS ARE NOT ALLOWED WHERE BEAMS ARE SPANNING BETWEEN FOUNDATIONS OR ACROSS VENT OPENINGS. - SEE 6/S5.1.

   NOTE: IF HOLE IS 2" OR LESS, THEY MAY BE SPACED @ 24" O.C. MINIMUM.
7. NOT USED.
8. NOT USED.
9. LONGITUDINAL BEAM OPENING: REFER TO DETAIL 3/S5.1 FOR OPENING REINFORCEMENT (10"x18" MAX OPENING SIZE).
10. TRANSVERSE BEAM OPENING: REFER TO DETAIL 4/S5.1 FOR OPENING REINFORCEMENT (10"x30" MAX OPENING SIZE).

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — TIMOTHY PATRICK CONNELLY — No. C12631 Ren. 3-31-23 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — MANNY D. FRANCISCO — No. 31380 — STRUCTURAL — STATE OF CALIFORNIA

08/06/2021

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

REVISIONS

DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

SHEET TITLE:

MOMENT FRAME
ELEVATIONS & DETAILS

SHEET NUMBER:

S5.0

NOT USED

1A

OPENING @ ROOF BEAMS (LONGITUDINAL BEAMS)

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

3

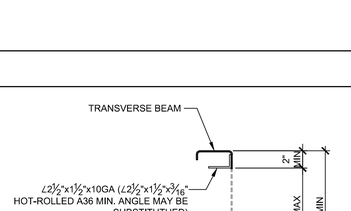
NOTES:

1. LOCATE DIAGONAL BRACE (SEE 1/S4.1) AT PURLINS CLOSEST TO EACH SIDE OF BEAM OPENING, TYP.
2. BEAM OPENING(S), LOCATED AT EXTERIOR WALLS W/ STUD WALL BELOW, MAY BE CONSTRUCTED PER DETAIL 4/S5.1.

OPENING @ ROOF BEAMS (TRANSVERSE BEAMS)

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

4



OPTIONAL OPENING REINFORCEMENT

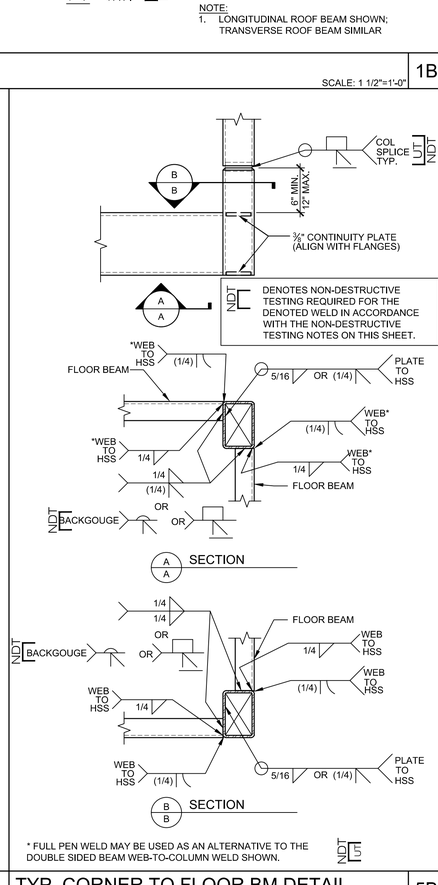
NOT USED

5A

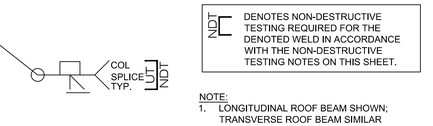
TYP. CORNER TO FLOOR BM DETAIL

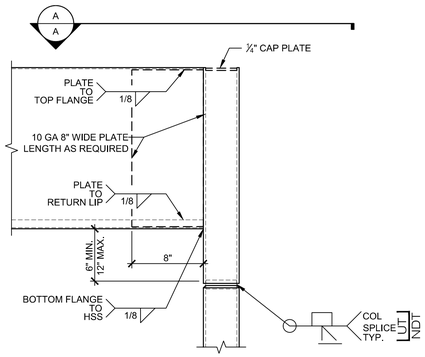
SCALE: 1 1/2"=1'-0"

5B



* FULL PEN WELD MAY BE USED AS AN ALTERNATIVE TO THE DOUBLE SIDED BEAM WEB-TO-COLUMN WELD SHOWN.





NDT DENOTES NON-DESTRUCTIVE TESTING REQUIRED FOR THE DENOTED WELD IN ACCORDANCE WITH THE NON-DESTRUCTIVE TESTING NOTES ON THIS SHEET.

NOTE:
1. LONGITUDINAL ROOF BEAM SHOWN; TRANSVERSE ROOF BEAM SIMILAR

TYPICAL ROOF CHANNEL TO HSS DETAIL

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

1B

THE WELDING PROCEDURE QUALIFICATION TEST RECORD AND WELDING PROCEDURE SPECIFICATION FOR WELDS ON THIS SHEET SHALL BE PREPARED IN ACCORDANCE WITH AWS D1.1-15 (HOT-ROLLED), D1.3-08 (COLD-FORMED) & D1.8-16 AND SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND SUBMITTAL TO D.S.A. UPON REQUEST. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT.-LBS AT ZERO DEGREES F, AS DETERMINED BY AWS CLASSIFICATION.

GENERAL NOTES

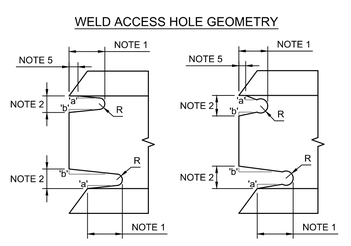
NON-DESTRUCTIVE TESTING OF COMPLETE JOINT PENETRATION GROVE WELDS AT THE MOMENT-RESISTING BEAM-TO-COLUMN CONNECTIONS SHALL COMPLY WITH AISC 341-16 CHAPTER J PER CBC 1705A.2.1.

1. WELDS SUBJECT TO THE REQUIREMENTS OF NON-DESTRUCTIVE TESTING ARE NOTED ON THESE DRAWINGS WITH THE SYMBOL: NDT
2. ALL WELDS DESIGNATED FOR NON-DESTRUCTIVE TESTING REQUIRE MAGNETIC PARTICLE TESTING (MT) TO BE PERFORMED ON 25% OF THOSE WELDS.
3. ULTRASONIC TESTING (UT) IS TO BE PERFORMED ON 100% OF WELDS DENOTED WITH THE SYMBOL UT, AND IS ONLY REQUIRED ON THOSE DESIGNATED WELDS.
4. ULTRASONIC TESTING (UT) IS ONLY REQUIRED WHERE THE THICKNESS OF THE COLUMN IS 5/16" OR GREATER. UT IS NOT REQUIRED WHERE THE COLUMN THICKNESS IS LESS THAN 5/16". MAGNETIC PARTICLE TESTING (MT) IS STILL REQUIRED.
5. ULTRASONIC TESTING (UT) IS NOT REQUIRED ON WELDS FROM STRUCTURAL STEEL CHANNEL BEAM FLANGES TO COLUMNS AS UT TESTING IS NOT APPROPRIATE FOR SECTIONS WITH VARYING DEPTHS. MAGNETIC PARTICLE TESTING (MT) IS STILL REQUIRED.

NON-DESTRUCTIVE TESTING NOTES

1. FILLER METALS SHALL CONFORM TO THE REQUIREMENTS OF THE AISC SEISMIC PROVISIONS.
2. WELDING PROCEDURES SHALL BE IN ACCORDANCE WITH THE AISC SEISMIC PROVISIONS.
3. QUALITY CONTROL AND QUALITY ASSURANCE SHALL BE IN ACCORDANCE WITH THE AISC SEISMIC PROVISIONS.
4. WELD ACCESS HOLES SHALL BE IN ACCORDANCE WITH AISC 360-16, SECTION J1.6, AND SHALL BE CONSTRUCTED PER THE FOLLOWING DETAILS & NOTES.

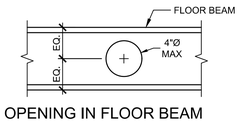
WELD ACCESS HOLE GEOMETRY



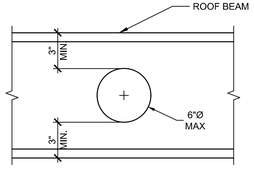
NOTES: THESE ARE TYPICAL DETAILS FOR JOINTS WELDED FROM ONE SIDE AGAINST STEEL BACKING WHERE WELD ACCESS HOLES ARE REQUIRED.

1) LENGTH: GREATER OF 1.5tw (WEB THICKNESS) OR 1-1/2 IN. (38 MM)
2) HEIGHT: GREATER OF 1.0tw OR 3/4 IN. (19 MM) BUT NEED NOT EXCEED 2 IN. (50 MM)
3) R: 3/8 IN. MIN. (10 MM). GRIND THE THERMALLY CUT SURFACES OF WELD ACCESS HOLES IN HEAVY SHAPES AS DEFINED IN SECTIONS A3.1(c) AND (d) OF AISC 360-16.
4) SLOPE 'a' FORMS A TRANSITION FROM THE WEB TO THE FLANGE. SLOPE 'b' MAY BE HORIZONTAL.
5) THE BOTTOM OF THE TOP FLANGE IS TO BE CONTOURED TO PERMIT THE TIGHT FIT OF BACKING BARS WHERE THEY ARE TO BE USED.

REQ. FOR FR. MOMENT CONNECTIONS



4" OPENING IN FLOOR BEAM



6" OPENING IN ROOF BEAM

OPENING IN BEAMS

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

6

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

.
.
.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — PATRICK C. HOUGH — No. C12631 Ren. 3-31-23 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — MANNY D. FRUTOS — No. 33380 — STRUCTURAL — STATE OF CALIFORNIA

08/06/2021

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

REVISIONS

1	
2	
3	
4	

DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

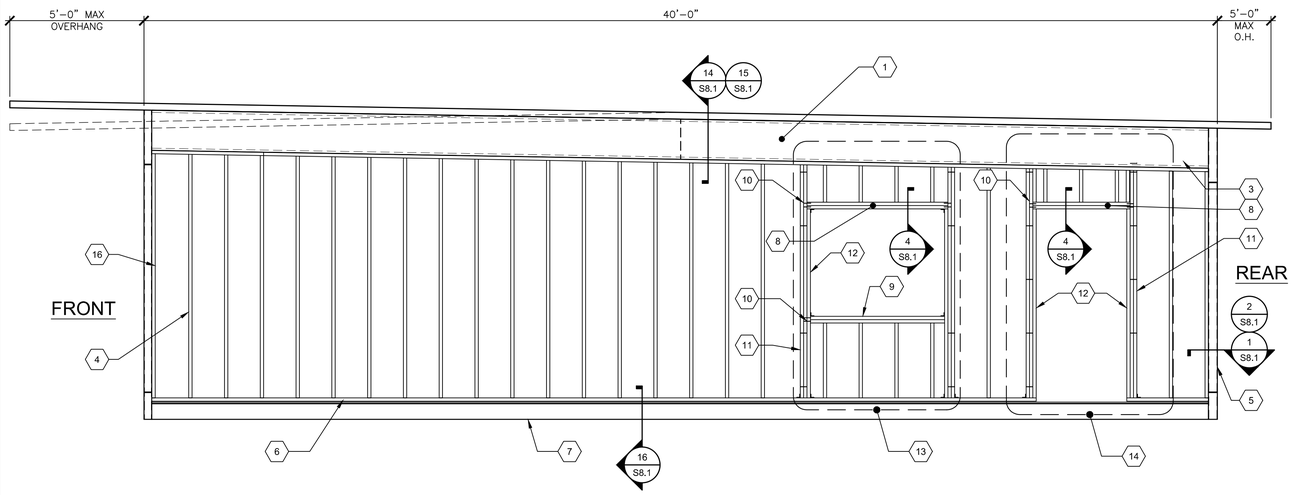
SHEET TITLE:

MOMENT FRAME CONNECTION DETAILS

SHEET NUMBER:

S5.1

D:\XXXX\ 2a4c4a8b7858d0c8c3dc1b6c3f3f2f9f3f3f7f8f7f8f7f8



1. ROOF BEAM PER SHEET S5.0
2. 2x6 MIN. TOP PLATE - NO SPLICE
3. 2x6 MIN. TOP PLATE
4. 2x6 MIN. STUDS SPACED PER SCHEDULE W/(3) 0.131"Ø x3" END NAILS OR (4) 0.131"Ø x3" TOE NAILS T&B TO PLATES TYP.
5. HSS COLUMN PER SHEET S5.0
6. 2x6 MIN. BOTTOM PLATE - NO SPLICE (P.T. AT CONCRETE FLOORS)
6A. 2x6 MIN. BOTTOM PLATE (P.T. AT CONCRETE FLOORS)
7. PERIMETER FLOOR BEAM PER SHEET S5.0
8. HEADER PER OPENING SCHEDULE
9. WINDOW SILL PER OPENING SCHEDULE
10. END NAILS THROUGH KING STUD TO HEADER SILL PER OPENING SCHEDULE
11. KING STUDS PER OPENING SCHEDULE
12. 2x6 MIN. TRIMMER
13. OPTIONAL WINDOW OPENING FRAMING PER SCHEDULE (REFER TO 4/S8.0 FOR DETAILS AND FLOOR PLANS FOR LOCATIONS)
14. OPTIONAL DOOR OPENING FRAMING PER SCHEDULE (REFER TO 5/S8.0 FOR DETAILS AND FLOOR PLANS FOR LOCATIONS)
15. HVAC OPENING @ EXTERIOR WALL (600#MAX WT.) SEE DETAIL 3/S8.1 FOR HVAC ATTACHMENT - SEE DETAIL 3/S8.1 FOR HVAC ATTACHMENT
16. 2x DOUBLE NAILER

NOTE: SEE CARPENTRY NOTES SHEET N1.0 SECTION 6 FOR WOOD SPECIES & GRADE

KEY NOTES

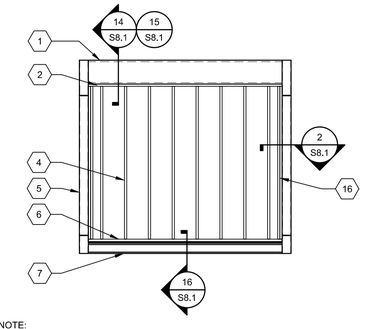
EXTERIOR WALL SCHEDULE			
FINISH TYPE	WALL FINISH COMMENTS	STUD TYPE	STUD SPACING
7/16" PLYWOOD SHEATHING 303 CONFORMING TO PS1-09. VERTICAL GROOVES @ 8" O.C.	WALL FINISH PER A5.0 & A5.1	HEM FIR #2 OR DOUG FIR #2	16" O.C. MAX
3/8" HARDI-BOARD w/ SYNTHETIC STUCCO OR 3/8" HARDI-LAP SIDING	WALL FINISH PER A5.4, A5.5, A5.6 & A5.7	HEM FIR #2 OR DOUG FIR #2	16" O.C. MAX
7/16" PLYWOOD SHEATHING CONFORMING TO PS1-09, APA RATED, 5 PLY 32/16", OR 7/16" OSB PANELS EXPOSURE 1 w/ 7/8" STUCCO	WALL FINISH PER A5.2 & A5.3; NAILING PER BLDG SECTIONS[1,2]	HEM FIR #2 OR DOUG FIR #2	16" O.C. MAX

FOOTNOTES

1. ALL NAILS IN EXTERIOR APPLICATIONS SHALL BE GALVANIZED.
2. TYPICAL PLYWOOD NAILING WHERE OCCURS: 0.131"Ø x2¼" GALV. NAILS @ 6" O.C. E.N. & 12" O.C. F.N. (ALL EDGES BLOCKED).

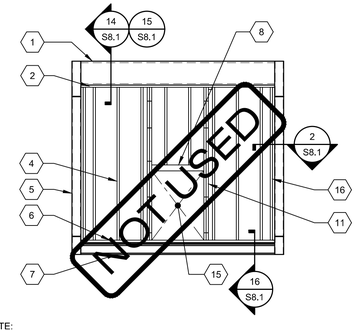
TYPICAL SIDE WALL FRAMING (MONO/DUAL PITCH)

SCALE: 3/8"=1'-0" A



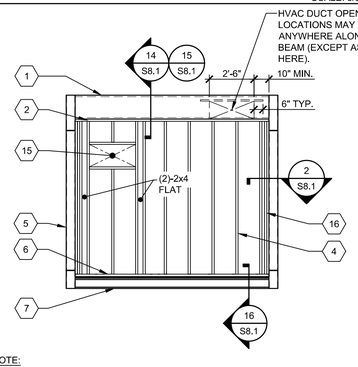
NOTE:
SEE S9.0 FOR ALTERNATE STEEL STUD WALL FRAMING.

TYP. END WALL FRAMING w/ NO OPENINGS SCALE: 1/4"=1'-0" 1



NOTE:
SEE S9.0 FOR ALTERNATE STEEL STUD WALL FRAMING.

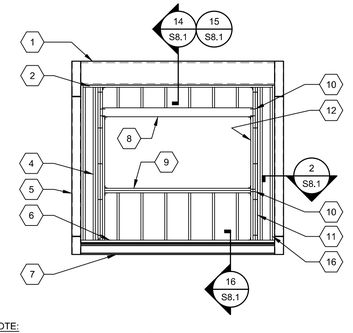
TYP. END WALL FRAMING w/ INDOOR HVAC UNIT (OPTIONAL) SCALE: 1/4"=1'-0" 2



NOTE:
SEE S9.0 FOR ALTERNATE STEEL STUD WALL FRAMING.

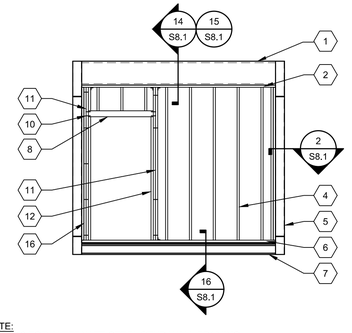
TYP. END WALL FRAMING w/ WALL HUNG HVAC UNIT (OPTIONAL) SCALE: 1/4"=1'-0" 3

EXTERIOR WALL FINISH/WALL STUD SCHEDULE



NOTE:
SEE S9.0 FOR ALTERNATE STEEL STUD WALL FRAMING.

TYPICAL END WALL FRAMING WINDOW SCALE: 1/4"=1'-0" 4



NOTE:
SEE S9.0 FOR ALTERNATE STEEL STUD WALL FRAMING.

TYPICAL END WALL FRAMING w/ DOOR SCALE: 1/4"=1'-0" 5

DOOR/WINDOW OPENING AT TYPICAL WALL (NO STUCCO)								
OPENING SIZE	HEADER	WINDOW SILL[2] (AS APPLICABLE)	KING STUDS[1]	KING STUD INTERNAIL SPACING	HEADER TO KING STUD NAILING		WINDOW SILL TO KING STUD NAILING	
					# END NAILS 1ST KING STUD TO HEADER[3] (0.131"Øx3" NAILS)	# FACE NAILS KING STUD TO KING STUD @ HEADER (0.131"Øx3" NAILS)	# END NAILS 1ST KING STUD TO WINDOW SILL[3] (0.131"Øx3" NAILS)	# FACE NAILS KING STUD TO KING STUD @ WINDOW SILL (0.131"Øx3" NAILS)
>8'-0" TO 10'-0"	6x6	(2) 2x6	(3) 2x6	0.131"Øx3" NAILS @ 12" O.C. MAX STAGGERED	6	3	4	2
>6'-0" TO 8'-0"	6x6	(1) 2x6	(2) 2x6		5	3	3	2
>4'-0" TO 6'-0"	4x6 FLAT	(1) 2x6	(2) 2x6		4	2	3	2
4'-0" OR LESS	4x6 FLAT	(1) 2x6	(2) 2x6		4	2	3	2

DOOR/WINDOW OPENING AT STUCCO WALL								
OPENING SIZE	HEADER	WINDOW SILL[2] (AS APPLICABLE)	KING STUDS[1]	KING STUD INTERNAIL SPACING	HEADER TO KING STUD NAILING		WINDOW SILL TO KING STUD NAILING	
					# END NAILS 1ST KING STUD TO HEADER[3] (0.131"Øx3" NAILS)	# FACE NAILS KING STUD TO KING STUD @ HEADER (0.131"Øx3" NAILS)	# END NAILS 1ST KING STUD TO WINDOW SILL[3] (0.131"Øx3" NAILS)	# FACE NAILS KING STUD TO KING STUD @ WINDOW SILL (0.131"Øx3" NAILS)
>8'-0" TO 10'-0"	6x6	(2) 2x6	(3) 2x6	0.131"Øx3" NAILS @ 12" O.C. MAX STAGGERED	6	3	4	2
>6'-0" TO 8'-0"	6x6	(2) 2x6	(3) 2x6		5	3	4	2
>4'-0" TO 6'-0"	4x6 FLAT	(1) 2x6	(2) 2x6		4	2	3	2
4'-0" OR LESS	4x6 FLAT	(1) 2x6	(2) 2x6		4	2	3	2

FOOTNOTES

1. PROVIDE (2) SIMPSON A34 T&B OF KING STUDS TO PLATES FOR OPENINGS GREATER THAN 4'-0". PROVIDE (1) SIMPSON A34 T&B OF KING STUDS TO PLATES FOR OPENINGS 4'-0" OR LESS.
2. WHEN MORE THAN A SINGLE SILL PLATE IS REQUIRED, INTERNAIL w/ 0.131"Øx3" NAILS @ 12" O.C. STAGGERED.
3. TWO (2) END NAILS PER LAMINATION MINIMUM.

OPENING SCHEDULE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)
2GO®

SITE SPECIFIC PROJECT NAME

.
.
.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — TIMOTHY PATRICK HUGHES — No. C12631 Ren. 8-31-23 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — MANNY D. FRANCISCO — No. 51380 — STRUCTURAL — STATE OF CALIFORNIA

08/06/2021

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

REVISIONS

DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

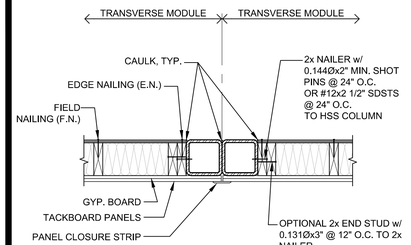
SHEET TITLE:

WALL FRAMING
ELEVATIONS & SCHEDULES
- WOOD STUDS

SHEET NUMBER:

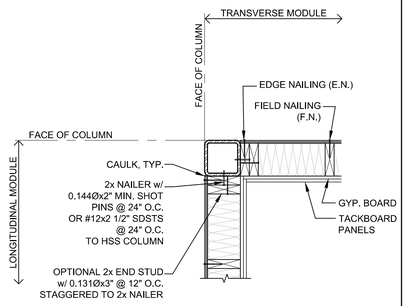
S8.0

D:\XXXX_jjh-ajg&ASB\Models\jjh-3dm-20130103-758 RevTrim\S8.0 ELEVATIONS & SCHEDULES - WOOD STUDS.dwg, 3/9/2021 8:47:56 PM, JJH



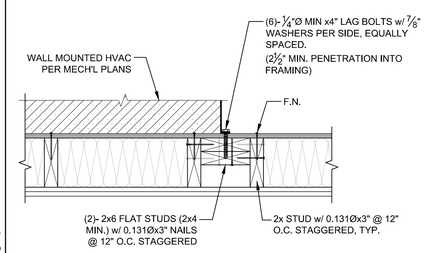
WALL TO COLUMN TYP. DETAIL @ MODLINES 1

FOR COLUMN LOCATION REFER TO ARCH. DETAILS — SCALE: 1-1/2" = 1'-0"



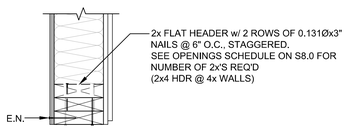
WALL TO COLUMN TYP. DETAIL @ CORNER 2

FOR COLUMN LOCATION REFER TO ARCH. DETAILS — SCALE: 1-1/2" = 1'-0"



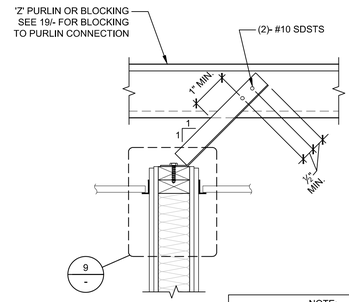
WALL HUNG HVAC ATTACHMENT DETAIL 3

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



WALL HEADER DETAIL 4

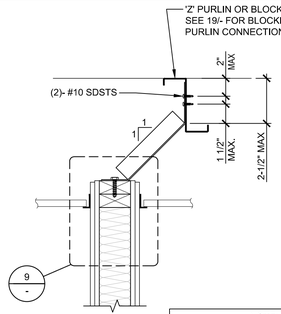
SCALE: 1-1/2" = 1'-0"



NOTE:
WALL MUST BE BRACED @ 8'-0" MAX BY EITHER AN INTERSECTING WALL OR WITH TOP PLATE BRACING TO ROOF FRAMING.

TYP. INTERIOR WALL BRACING 5

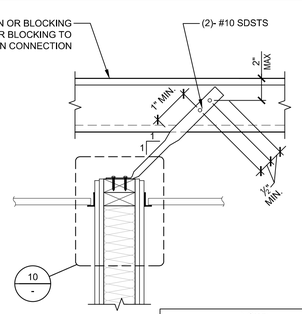
BRACE PARALLEL TO PURLINS — SCALE: 1-1/2" = 1'-0"



NOTE:
WALL MUST BE BRACED @ 8'-0" MAX BY EITHER AN INTERSECTING WALL OR WITH TOP PLATE BRACING TO ROOF FRAMING.

TYP. INTERIOR WALL BRACING 6

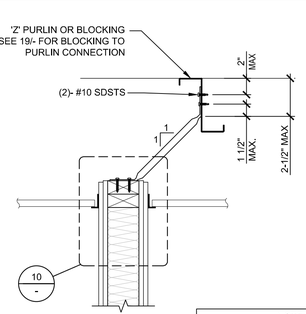
BRACE PERPENDICULAR TO PURLINS — SCALE: 1-1/2" = 1'-0"



NOTE:
WALL MUST BE BRACED @ 8'-0" MAX BY EITHER AN INTERSECTING WALL OR WITH TOP PLATE BRACING TO ROOF FRAMING.

ALT. INTERIOR WALL BRACING w/ EMT BRACE 7

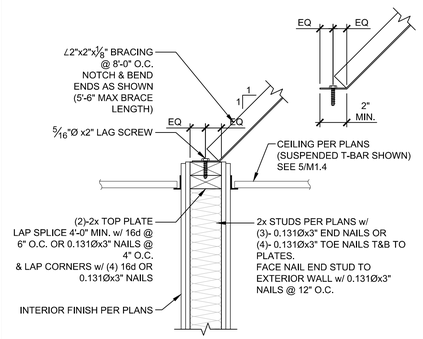
BRACE PARALLEL TO PURLINS — SCALE: 1-1/2" = 1'-0"



NOTE:
WALL MUST BE BRACED @ 8'-0" MAX BY EITHER AN INTERSECTING WALL OR WITH TOP PLATE BRACING TO ROOF FRAMING.

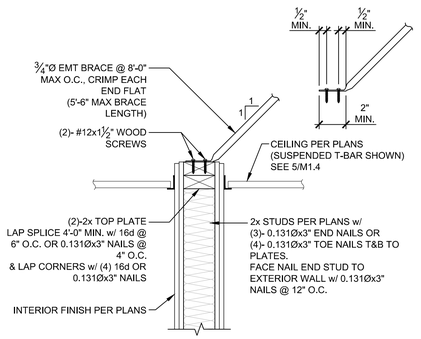
ALT. INTERIOR WALL BRACING w/ EMT BRACE 8

BRACE PERPENDICULAR TO PURLINS — SCALE: 1-1/2" = 1'-0"



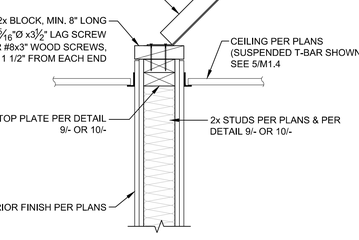
TYP. INTERIOR WALL BRACING 9

INTERIOR PARTITION BRACING — SCALE: 1-1/2" = 1'-0"



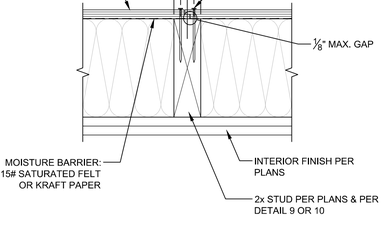
ALT. INTERIOR WALL BRACING 10

INTERIOR PARTITION BRACING w/ EMT BRACE — SCALE: 1-1/2" = 1'-0"



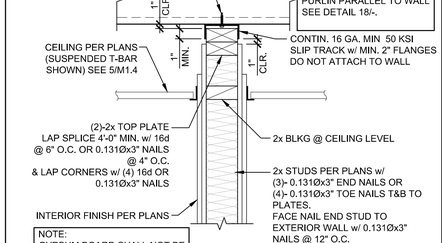
ALT. BLOCKING @ INT. WALL BRACING 11

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



TYP. SHEATHING JOINT 12

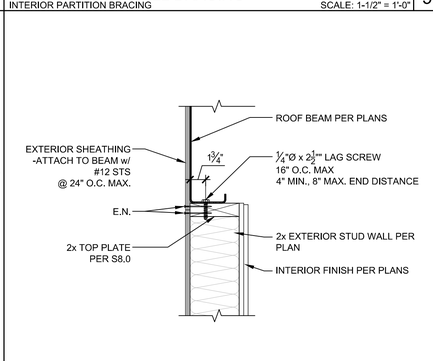
SCALE: 1-1/2" = 1'-0"



NOTE:
GYPSUM BOARD SHALL NOT BE ATTACHED TO THE SLIP TRACK

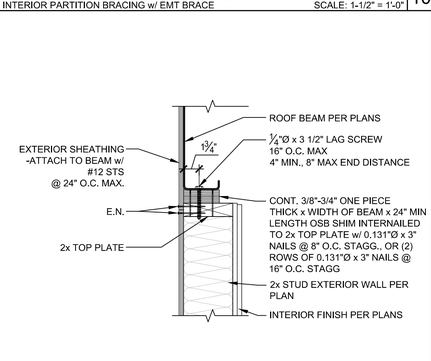
ALT. INTERIOR WALL ATTACHMENT 13

TO PURLINS OR BLOCKING PERPENDICULAR TO WALL — SCALE: 1-1/2" = 1'-0"



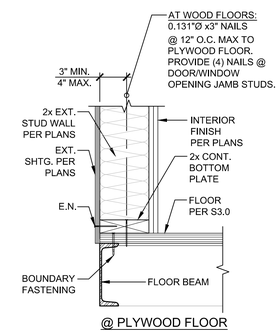
EXTERIOR WALL TO ROOF BEAM DETAIL 14

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



EXTERIOR WALL TO ROOF BEAM DETAIL 15

AT SHIM CONDITION — SCALE: 1-1/2" = 1'-0"

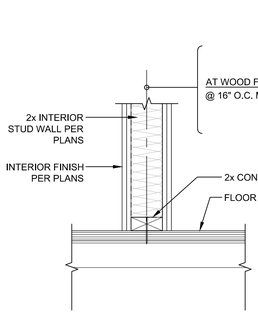


@ PLYWOOD FLOOR

FASTENER END DISTANCE: 2" MIN - 1/2" OF SPACING MAX. FROM ENDS OF PLATES, TYP.

TYP. EXTERIOR WALL TO FLOOR DETAIL 16

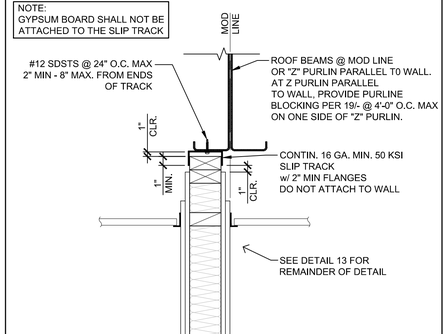
SCALE: 1-1/2" = 1'-0"



FASTENER END DISTANCE: 2" MIN - 1/2" OF SPACING MAX. FROM ENDS OF PLATES, TYP.

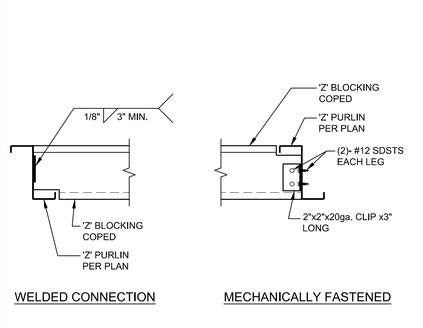
TYP. INTERIOR NON-BEARING WALL ATTACHMENT 17

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



TYP. INTERIOR NON-BEARING WALL ATTACHMENT 18

TO ROOF BEAMS @ MODLINE OR 'Z' PURLINS PARALLEL TO WALL — SCALE: 1-1/2" = 1'-0"



PURLIN BLOCKING DETAILS 19

TYPICAL INTERIOR NON-BEARING PARTITION WALL NOTES:

1. STUD SIZE: 2x4 MIN.
2. STUD SPACING: 16" O.C. MAX
3. WOOD SPECIES & GRADE: PER CARPENTRY NOTES SHEET N1.0 SECTION 6.
4. STUD NAILING TO T&B PLATES: (3)-0.131"Ø x 3" END NAILS OR (4)-0.131"Ø x 3" TOE NAILS.
5. DOUBLE 2x TOP PLATES: 0.131"Ø x 3" NAILS @ 16" O.C. TYP. LAP SPLICE 4'-0" MIN. w/0.131"Ø x 3" NAILS @ 4" O.C. & LAP CORNERS w/(4)-0.131"Ø x 3" NAILS.
6. INTERSECTIONS: FACE NAIL END STUD TO CROSS WALL (INCLUDING EXTERIOR WALLS) w/0.131"Ø x 3" NAILS @ 12" O.C. (ATTACH PER 2/- @ HSS COLUMNS).
7. DOOR, WINDOW, & HVAC OPENINGS: PER REQUIREMENTS FOR EXTERIOR WALLS PER SHEET S8.0 EXCEPT FRAMING MAY BE 2x4 MIN.
8. PROVIDE (1) SIMPSON A35 T&B OF KING STUDS TO PLATES @ ALL INTERIOR OPENINGS.

PURLIN BLOCKING CONNECTIONS 20

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — ANTHONY PATRICK GIANNETTA — No. C12631 Ren. 3-31-23 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — MANNY D. FRIAS — No. 33380 — STRUCTURAL — STATE OF CALIFORNIA

08/06/2021

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

REVISIONS

DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

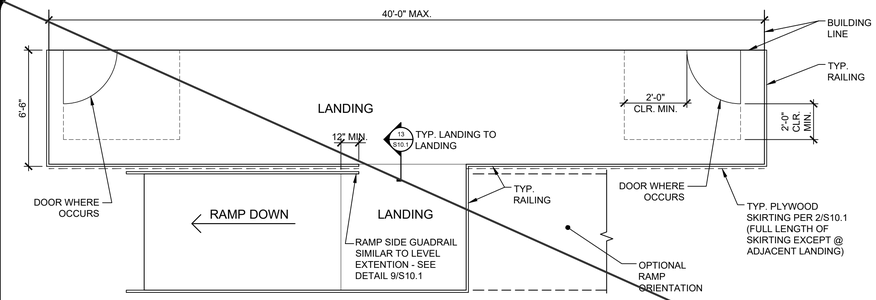
SHEET TITLE:

WALL FRAMING DETAILS - WOOD STUDS

SHEET NUMBER:

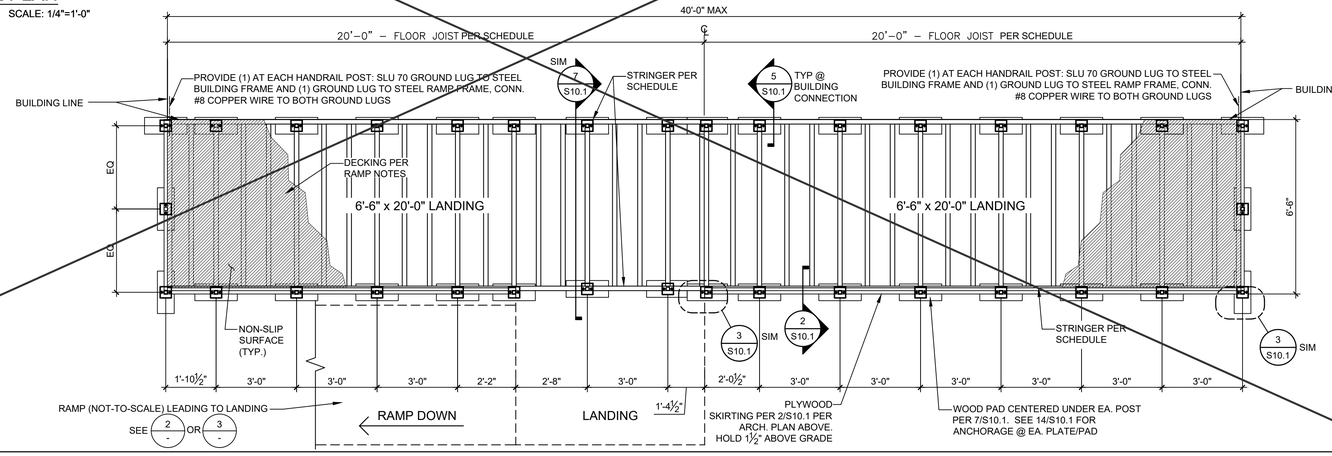
S8.1

S:\XXXX_SHOP DRAWINGS\S8.0-S8.2 WALL FRAMING DETAILS - WOOD STUDS.DWG 3/2/2021 2:57:08 PM ADS



TYPICAL ARCHITECTURAL PLAN

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



RAMP AND LANDING DATA

OCCUPANCY	TO MATCH BUILDING
SNOW AND ICE LOAD	NOT CONSIDERED
RAMP LIVE LOAD (MAX. PSF)	100 (1,000# CONCENTRATED LD)
DESIGN DEAD LOADS (MAX PSF)	12.0
ALLOWABLE SOIL PRESSURE (PSF)	1,000 FOR WOOD FOUNDATION
LATERAL LOADS	TO MATCH MAX BUILDING REQUIREMENTS
LANDING - PERPENDICULAR TO RAMP DIRECTION & RAMP	OTHER SELF-SUPPORTING STRUCTURE (SEE FRAMES - 7/S10.1) R=1.25 I = 1.0 Ω0 = 2.0
LANDING - PARALLEL TO RAMP DIRECTION	PLYWOOD SKIRTING (SHEARWALL)* (SEE DETAIL 2/S10.1)

* NOTE:
LANDING SECTIONS BUILT-UP AGAINST THE BUILDING ARE NOT REQUIRED TO HAVE SKIRTING PER DETAIL 2/S10.1.
THE LANDING IS DESIGNED AS AN OPEN FRONT DIAPHRAGM TO BE LATERALLY CANTILEVERED OFF THE FRONT SKIRTING AND THE FRAMES DETAILED ON 7/S10.1.

1. ENTRY RAMP AND LANDING SPECIFICATIONS

EACH BUILDING SHALL HAVE A RAMP AND LANDING TO CONFORM TO TITLE 24 C.C.R. SECTIONS 11B-405, 1010 AND 1012. THE RAMP AND LANDING STRUCTURES INCLUDING HANDRAILS AND WHEEL GUIDE RAILS ARE TO BE PREFABRICATED METAL IN SECTIONS THAT ARE DEMOUNTABLE FOR MOVING AND REINSTALLATION AT A NEW SITE. HANDRAILS AND WHEEL GUIDE RAILS SHALL BE CONTINUOUS AND SMOOTH WITH NO GAPS AT JOINTS. DESIGN SHALL BE SUCH THAT HEIGHT ADJUSTMENT CAN BE MADE AT THE INSTALLATION SITE. THE RAMP AND LANDING SURFACE SHALL BE ¾" MARINE GRADE PLYWOOD OR 11GA SHEET METAL. RAMP AND LANDING SHALL HAVE A NON-SLIP SURFACE FINISH APPLIED. NON-SLIP FINISH SHALL BE AMCOE GRIP II MANUFACTURED BY AMERICAN ABRASIVE METALS OR COMPARABLE. ALL RAMP SURFACES SHALL BE PAINTED AS INDICATED IN SECTION 9B ON SHEET N1.0. RAMPS SHALL HAVE HANDRAILS ON BOTH SIDES. WALL MOUNTED HANDRAILS SHALL BE OF SIMILAR CONSTRUCTION TO THE INTEGRAL RAMP HANDRAIL AND MOUNTED AT THE SAME HEIGHT. RAMP AND LANDING SHALL BE FULLY SKIRTED WITH THE SAME MATERIAL USED FOR BUILDING SKIRT. SIDES OF RAMP AND LANDING THAT DO NOT ADJOIN BUILDING WALL SHALL BE SKIRTED. ALL EDGES OF THE PLYWOOD SKIRT SHALL BE SUPPORTED AND PROTECTED FROM WEATHER. FOUNDATION MEMBERS SHALL BE AS FOR BUILDING FOUNDATION, ONLY THE FOUNDATION PAD RESTING ON GRADE MAY EXTEND BEYOND THE OUTSIDE FACE OF THE SKIRT 1" MAXIMUM.

2. FLOOR DECKING

¾" MARINE EXTERIOR A.P.A. 48/24 PLYWOOD w/ NON-SLIP SURFACE. DECK SURFACES SHALL BE SEALED ON ALL SIDES. FASTENED TO STEEL FRAMING WITH #10 SELF DRILLING BUGLE HEAD 1" GALV. SCREWS OR 0.144"Ø x1 ¾" MIN. GALV ET&F PINS (IAPMO REPORT ER-335) OR EQUIV. @ 6" O.C. EDGES AND 12" O.C. FIELD, TYP. PROVIDE ATTACHMENT @ 6" O.C. TO JOISTS BETWEEN HANDRAIL POST AS SHOWN ON DETAIL 7/S10.1.

3. ALT. FLOOR DECKING

10 GA. SHEET METAL WITH NON-SLIP SURFACE (0.8 MIN COEFFICIENT OF FRICTION) ATTACHED TO STEEL FRAMING WITH #12x1" STS @ 6" O.C. E.N. & 12" O.C. F.N. PROVIDE ATTACHMENT @ 6" O.C. TO JOISTS BETWEEN HANDRAIL POST AS SHOWN ON DETAIL 7/S10.1. MATERIAL STRENGTH SHALL BE 36 KSI MIN. w/ A MODULUS OF ELASTICITY OF 29,500 KSI ± 3%. ACCEPTABLE STEEL MATERIALS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: ASTM A1011 SS GRADE 36 (Fy=36 KSI) ASTM A653 SS GRADE 37 (Fy=37 KSI) ASTM A1008 SS GRADE 40 (Fy=40 KSI).

4. GROUNDING OF BUILDING COMPONENT

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING NECESSARY CONNECTORS TO GROUND THE METAL PORTIONS OF THE BUILDING (I.E. FRAME, RAMP, ETC.) GROUNDING ROD, WIRES AND TESTING SHALL BE PROVIDED BY OTHER AND MEET THE REQUIREMENTS OF I.R. E-1 ISSUED BY D.S.A.

5. RAMP SLOPE

RAMPS SHALL NOT SLOPE MORE THAN 1" RISE OVER A 12" RUN (1:12). CROSS SLOPE SHALL NOT EXCEED 1:48.

6. HANDRAILS

HANDRAILS SHALL BE INSTALLED ON BOTH SIDES OF RAMP AT 34" HIGH. HANDRAILS SHALL BE AT A CONSISTENT VERTICAL HEIGHT FOR THE ENTIRE STRUCTURE.

7. RAMP PLANNING

DUE TO VARYING SITE CONDITIONS, THE MAXIMUM HEIGHT OF FINISH FLOOR FROM GRADE IS 24", THEREFORE IT IS POSSIBLE THAT THE ACCESS RAMP ATTACHED TO THE BUILDING COULD BE 24'-0" LONG AT A SLOPE OF 1:12. ARCHITECT MUST TAKE INTO ACCOUNT THAT THE RAMP SUPPLIED BY AMS, INC. IS 12'-0" LONG AT A SLOPE OF 1:12. THEREFORE THE ARCHITECT WILL HAVE TO DESIGN AND PROVIDE SUFFICIENT DETAILS OF RAMP EXTENSIONS AND BOTTOM LANDING DEPENDING ON PARTICULAR SITE CONDITIONS. IN NO WAY IS AMS, INC. RESPONSIBLE FOR ANY RAMP EXTENSION EXCEEDING THE ORIGINAL PLAN AS SHOWN ON THIS SHEET.

8. LANDINGS

OVERALL LENGTH OF A LANDING MAY VARY FROM 60" UP TO 40'-0". LENGTH MUST CONFORM TO APPROVED LANDING. SLOPE LANDING NOT TO EXCEED 1:48 TO PREVENT WATER PONDING.

9. FASTENERS

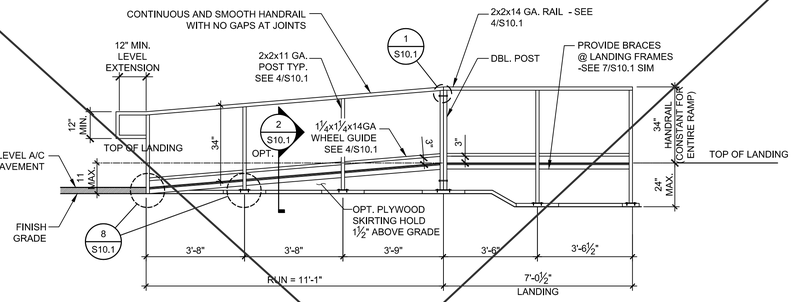
ALL EXTERIOR USE FASTENERS SHALL BE GALVANIZED OR STAINLESS STEEL.

10. WELDING

THE DESIGN PROFESSIONAL HAS EXEMPTED THIS RAMP FROM SPECIAL INSPECTION REQUIREMENTS FOR MATERIAL IDENTIFICATION AND STRUCTURAL WELDING. RAMP SHALL NOT BE MODIFIED NOR HAVE SHIMS ADDED CAUSING THE DISTANCE BETWEEN THE HIGHEST RAMP WALKING SURFACE AND THE ADJACENT GRADE TO BE MORE THAN 30 INCHES. IF THIS CONDITION IS NOT MET, STRUCTURAL TESTING AND/OR INSPECTION WILL BE REQUIRED TO VERIFY MATERIALS AND STRUCTURAL WELDING. THIS APPLIES TO SCOPES OF WORK INCLUDING NEW CONSTRUCTION, ALTERATION, OR RELOCATION OF THE RAMP.

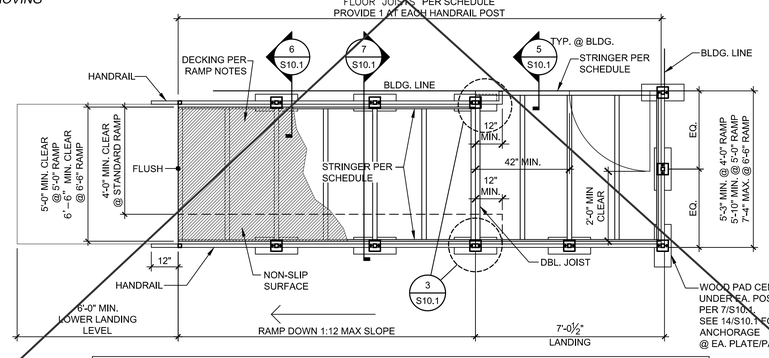
LANDING PLAN OPTION

SCALE: 3/8" = 1'-0" | 1



RAMP ELEVATION

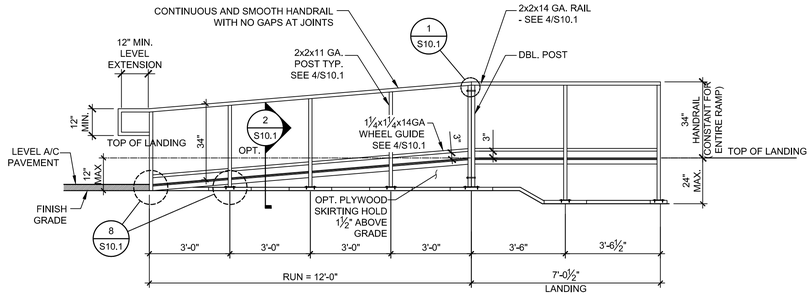
NOTE: RAMP & LANDING TO BE FABRICATED IN SECTIONS (2 MIN.) FOR MOVING



NOTE: FOR RAMP & LANDING MINIMUM REQUIREMENTS, SEE DETAIL 16/A1.0

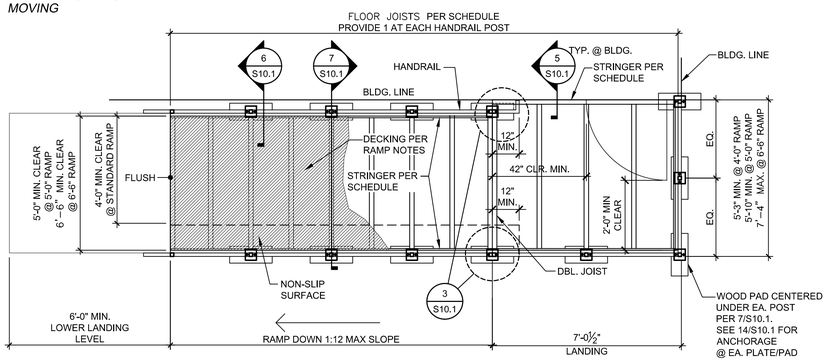
11-FOOT TYPICAL RAMP

SCALE: 3/8" = 1'-0" | 2



RAMP ELEVATION

NOTE: RAMP & LANDING TO BE FABRICATED IN SECTIONS (2 MIN.) FOR MOVING



NOTE: FOR RAMP & LANDING MINIMUM REQUIREMENTS, SEE DETAIL 16/A1.0

12-FOOT TYPICAL RAMP

SCALE: 3/8" = 1'-0" | 3

RAMP NOTES

RAMP/LANDING WIDTH	STRINGER SCHEDULE(1) MAX STRINGER SPANS (FT)		
	3'-0"	3'-6"	3'-9"
4'-0"	2x2x11 GA	2x2x11 GA	HSS 2x2x3/16
5'-0"	2x2x11 GA	2x2x11 GA	HSS 2x2x3/16
5'-10"	2x2x11 GA	2x2x11 GA	HSS 2x2x3/16
6'-6"	2x2x11 GA	2x2x11 GA	HSS 2x2x3/16
7'-4"	2x2x11 GA	2x2x11 GA	HSS 2x2x3/16

(1) SEE 4/S10.1 FOR LIGHT GAUGE STEEL TUBE PROPERTIES, SIZES INDICATED ARE MINIMUM, THICKER TUBES MAY BE USED, HSS 2x2x1/8 OR LARGER PER 11/S10.1 MAY BE SUBSTITUTED FOR LIGHT GAUGE TUBES.

RAMP/ LANDING WIDTH	JOIST SCHEDULE(1) MAX JOIST SPACING									
	2x2x14 GA. DECKING		2x2x11 GA. DECKING		HSS 2x2x3/16 DECKING		HSS 2x2x3/16 DECKING		HSS 2x2x1/4 DECKING	
	PLY	10 GA.	PLY	10 GA.	PLY	10 GA.	PLY	10 GA.	PLY	10 GA.
4'-0"	16"	11"	16"	14"	16"	14"	16"	14"	16"	14"
5'-0"	14"	11"	16"	14"	16"	14"	16"	14"	16"	14"
5'-5½"	-	-	12"	12"	12"	12"	16"	14"	16"	14"
5'-10"	-	-	12"	12"	12"	12"	15"	14"	16"	14"
6'-6"	-	-	-	-	-	-	12"	12"	14"	14"
7'-4"	-	-	-	-	-	-	9"	9"	11"	11"

(1) SEE 4/S10.1 FOR LIGHT GAUGE STEEL TUBE PROPERTIES, AND 11/S10.1 FOR HSS PROPERTIES

RAMP/ LANDING MEMBER SCHEDULE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT — MANUEL PATRICK DE LA CRUZ — No. C12631 Ren. 3-31-23 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — MANNY D. FRUCTUOSO — No. 33380 — STRUCTURAL — STATE OF CALIFORNIA

08/06/2021

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

REVISIONS
1
2
3
4

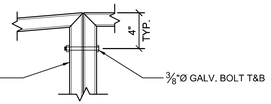
DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

SHEET TITLE:

TYPICAL RAMP PLANS & NOTES

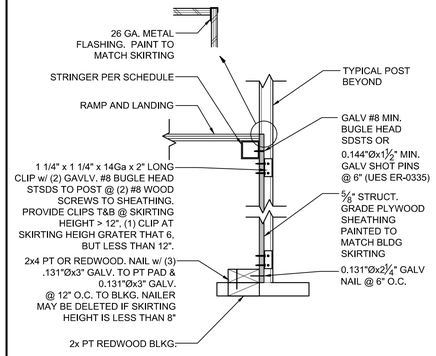
SHEET NUMBER:

S10.0



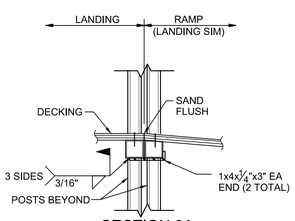
DETAIL

SCALE: 3/8"=1'-0" | 1

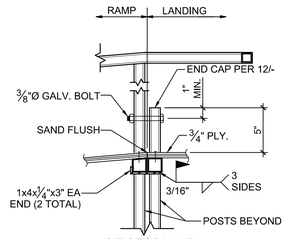


RAMP SKIRT DETAIL

SCALE: 3/8"=1'-0" | 2



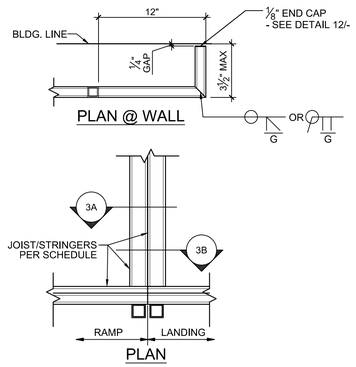
SECTION 3A

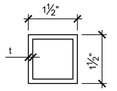


SECTION 3B

RAMP TO LANDING CONNECTION DETAIL

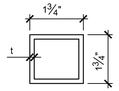
SCALE: 3/8"=1'-0" | 3





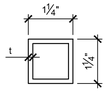
1½"x1½"x11 GA. TUBE

A = 0.602 IN^2
Sx = 0.244 IN^3
Ix = 0.183 IN^4
t = 0.112" MIN.
(0.1175" DESIGN)



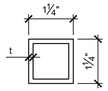
1¾"x1¾"x11 GA. TUBE

A = 0.725 IN^2
Sx = 0.356 IN^3
Ix = 0.312 IN^4
t = 0.112" MIN.
(0.1175" DESIGN)



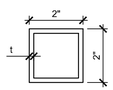
1¼"x1¼"x14 GA. TUBE

A = 0.319 IN^2
Sx = 0.114 IN^3
Ix = 0.072 IN^4
t = 0.068" MIN.
(0.0713" DESIGN)



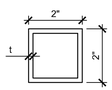
1¼"x1¼"x11 GA. TUBE

A = 0.497 IN^2
Sx = 0.163 IN^3
Ix = 0.102 IN^4
t = 0.112" MIN.
(0.1175" DESIGN)



2"x2"x11 GA TUBE

A = 0,837 IN^2
Sx = .479 IN^3
Ix = .479 IN^4
t = 0.112" MIN.
(0.1175" DESIGN)



2"x2"x14 GA TUBE

A = 0.533 IN^2
Sx = 0.324 IN^3
Ix = 0.324 IN^4
t = 0.068" MIN.
(0.0713" DESIGN)

MATERIAL STRENGTH SHALL BE 36 KSI MIN. w/ A MODULUS OF ELASTICITY OF 29,500 KSI ± 3%. ACCEPTABLE STEEL MATERIALS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

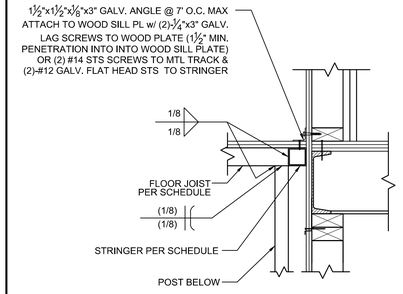
ASTM A1011 SS GRADE 36 (Fy=36 KSI)
ASTM A653 SS GRADE 37 (Fy=37 KSI)
ASTM A1008 SS GRADE 40 (Fy=40 KSI)

MATERIAL SHALL BE GIVEN A RUST INHIBITIVE COATING.

THE MATERIAL THICKNESS OF LIGHT GAUGE STEEL MEMBERS, IN THEIR END US, SHALL MEET OR EXCEED THE MINIMUM BASE METAL THICKNESS SPECIFIED ABOVE. THE MATERIAL GAUGE DESIGNATION SHALL BE USED AS REFERENCE ONLY. SPECIFIED STEEL TUBE THICKNESSES ARE MINIMUM. THICKER TUBES MAY BE USED.

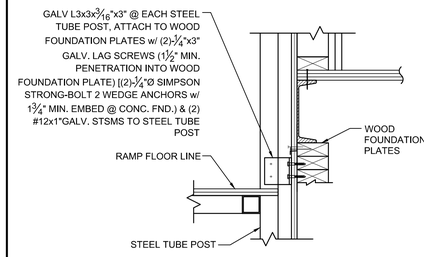
LIGHT GAUGE STEEL TUBE PROPERTIES

SCALE: 3/8"=1'-0" | 4



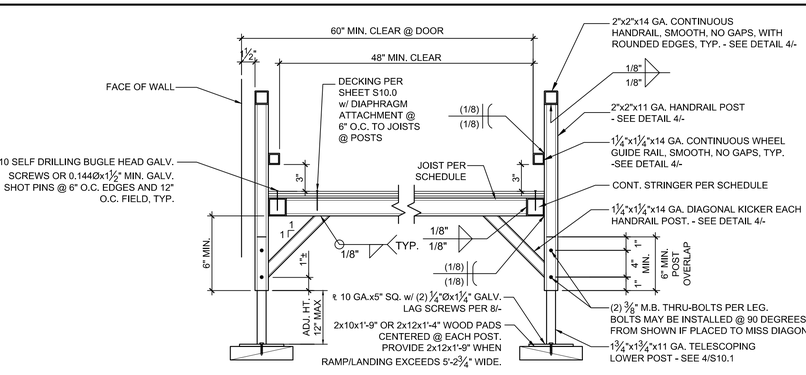
LANDING ATTACHMENT DETAIL

SCALE: 3/8"=1'-0" | 5



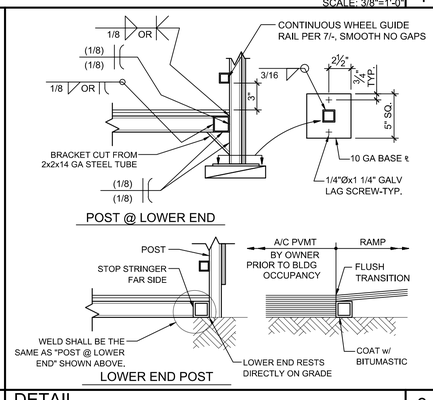
RAMP CONNECTION DETAIL

SCALE: 3/8"=1'-0" | 6



HANDRAIL & RAMP SECTION

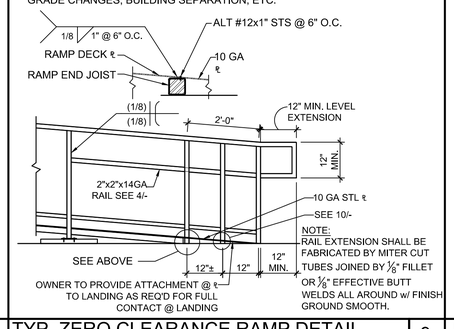
SCALE: 3/8"=1'-0" | 7



DETAIL

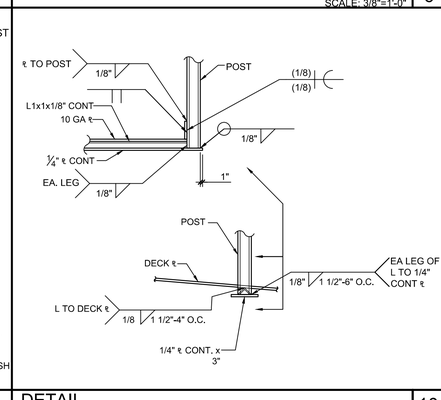
SCALE: 3/8"=1'-0" | 8

NOTE:
THE ZERO CLEARANCE RAMP LAYOUT IS AN OPTIONAL METHOD ONLY. IT MUST BE APPROVED IN WRITING, IF AMS IS TO PROVIDE THIS OPTION. ARCHITECT/OWNER MUST TAKE INTO ACCOUNT VARYING SITE CONDITIONS, GRADE CHANGES, BUILDING SEPARATION, ETC.



TYP. ZERO CLEARANCE RAMP DETAIL

SCALE: 3/8"=1'-0" | 9

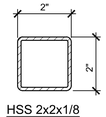


DETAIL

SCALE: 3/8"=1'-0" | 10

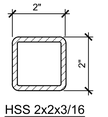
1. STEEL IN CONTACT WITH GROUND OR PT WOOD FOUNDATION PLATE SHOULD BE GALVANIZED.

GENERAL CONNECTION NOTES



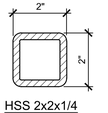
HSS 2x2x1/8

ASTM A500 GRADE B
Fy = 46 KSI
A = 0.840 IN^2
Sx = 0.4863 IN^3
Ix = 0.486 IN^4



HSS 2x2x3/16

ASTM A500 GRADE B
Fy = 46 KSI
A = 1.19 IN^2
Sx = 0.641 IN^3
Ix = 0.641 IN^4



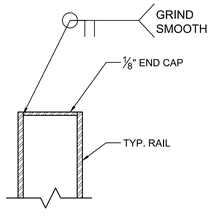
HSS 2x2x1/4

ASTM A500 GRADE B
Fy = 46 KSI
A = 1.51 IN^2
Sx = 0.747 IN^3
Ix = 0.747 IN^4

MATERIAL SHALL BE GIVEN A RUST INHIBITIVE COATING

HSS PROPERTIES

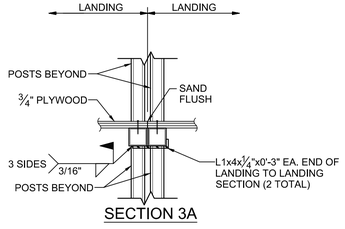
11



NOTE: END CAP MAY ALSO BE PLASTIC SNAP-ON CAP

END CAP DETAIL

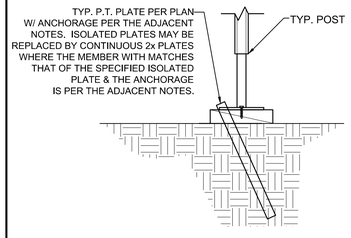
SCALE: N.T.S. | 12



SECTION 3A

LANDING TO LANDING CONNECTION

SCALE: 3/8" = 1'-0" | 13



P.T. PLATE ANCHORAGE (ISOLATED PLATES)
ON SOIL, A/C OR CONCRETE PAVING
1"Ø STANDARD WEIGHT (1.315 ACTUAL O.D.) HOT DIPPED GALV. PIPE PER PLATE w/ 12" MIN. PENETRATION MEASURED VERTICALLY BELOW SOIL OR PAVING SURFACE. DRILL PLATE 1 ⅜"Ø MAX. PIPE MAY BE DRIVEN MAX. PIPE MAY BE DRIVEN MAX 45° ANGLE TO VERTICAL.

ALTERNATE ON CONC. PAVING ONLY:
(2) SIMPSON SS (STAINLESS STEEL) STRONG-BOLT 2 THRU EA. PLATE w/ 3 ½" MIN. CONC. EMBEDMENT. SEE SHTS. S2.0-S2.3 FOR INSTALLATION REQUIREMENTS.

P.T. PLATE ANCHORAGE (CONTINUOUS PLATES)
ON SOIL, A/C OR CONCRETE PAVING
1"Ø STANDARD WEIGHT (1.315 ACTUAL O.C.) HOT DIPPED GALV. PIPE @ 4'-0" O.C. MAX. w/ 12" MIN. PENETRATION MEASURED VERTICALLY BELOW SOIL OR PAVING SURFACE. PROVIDE A MIN. OF (2) PIPE ANCHORS FOR ANY SECTION OF PLATE. DRILL PLATE 1 ⅜"Ø MAX. PIPE MAY BE DRIVEN MAX 45° ANGLE TO VERTICAL.

ALTERNATE ON CONC. PAVING ONLY:
SIMPSON SS (STAINLESS STEEL) STRONG-BOLT 2 THRU PLATE @ 3'-0" O.C. MAX. w/ 3 ½" MIN. CONC. EMBEDMENT. PROVIDE A MIN. OF (2) ANCHORS FOR ANY SECTION OF PLATE. SEE SHTS. S2.0-S2.3 FOR INSTALLATION REQUIREMENTS.

P.T PLATE ANCHORAGE

SCALE: 3/8" = 1'-0" | 14

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
ANTHONY PATRICK HIGH
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
MANNY D. FRIAS
No. 23380
STRUCTURAL
STATE OF CALIFORNIA

08/06/2021

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

REVISIONS

1	
2	
3	
4	

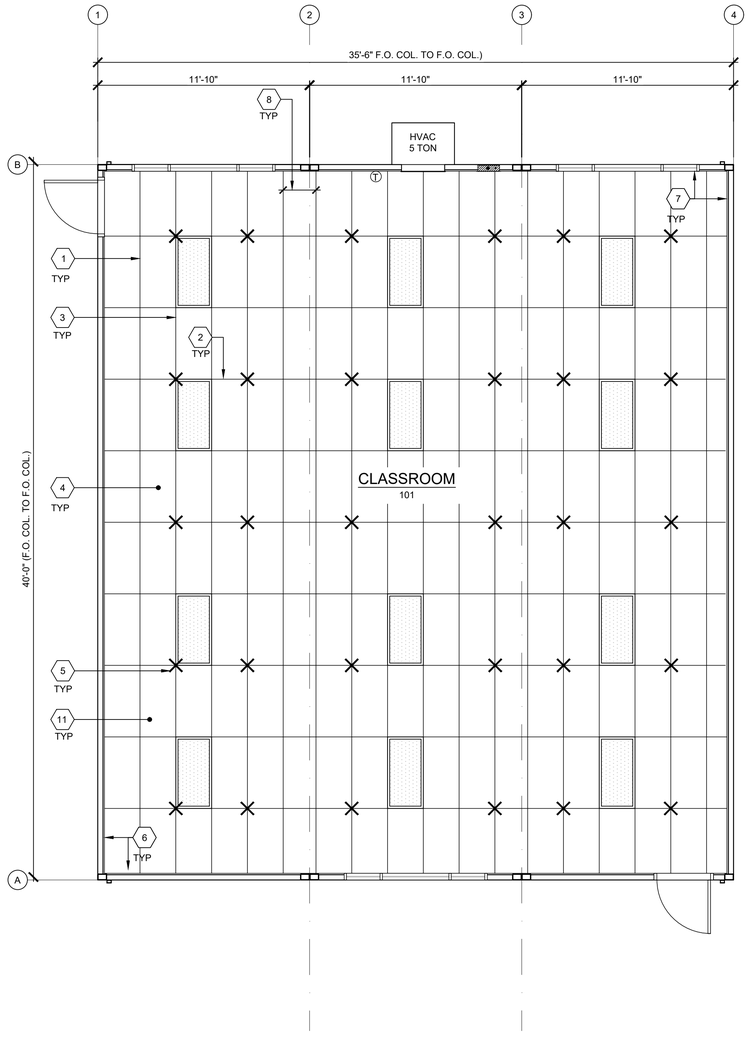
DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

SHEET TITLE:

RAMP DETAILS

SHEET NUMBER:

S10.1

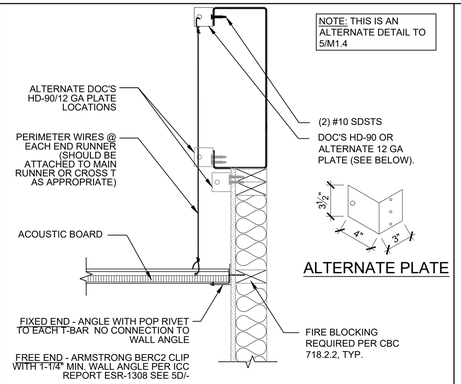


TYPICAL REFLECTED CEILING PLAN - BUILDING 'A'

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

NOT USED

NOT USED



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

SUSPENDED CEILING ATTACHMENT DETAIL | 2

BUILDING SIZE SCHEDULE			
BUILDING SIZE (FT)	TOTAL # OF 12'-0" WIDE MODULES	TOTAL # OF CENTER MODULES	OVERALL BUILDING WIDTH[1]
☐ 24'x40'	2	0	23'-8½"
☒ 36'x40'	3	1	35'-6¾"
☐ 48'x40'	4	2	47'-5"

NOTES:

1. TOTAL BUILDING WIDTH INCLUDES ¼" PER MODULE CONSTRUCTION TOLERANCE PER FOUNDATION SHEET, S1.1.

1. MAIN TEE RUNNER TYP. PER TABLE A, SHEET M1.7
2. CROSS TEE RUNNER TYP. PER TABLE A, SHEET M1.7
3. INTERIOR LIGHT FIXTURE, REFER TO SHEET SHEET E1.0 FOR SPEC'S ATTACHMENT PER DETAIL 7/M1.4
4. CEILING HEIGHT @ 8'-6"
5. STRUT/SPLAY WIRE ASSEMBLY, SEE 2/M1.4 FOR DETAILS
6. FIXED CEILING END, SEE DETAIL 5A/M1.4
7. FREE CEILING END, SEE DETAIL 5B/M1.4
8. CENTER SECTION THAT CROSSES MODULE LINE TO BE FIELD INSTALLED, SEE DETAIL 5C/M1.4
9. TYP. HVAC UNIT
10. NOT USED
11. T-BAR SUSPENDED CEILING TYP.

KEY NOTES

1. WHERE TWO OR MORE HVAC UNITS SERVE A COMMON SPACE, UNITS SHALL BE EQUIPPED WITH A DUCT SMOKE DETECTOR FOR AUTO SHUTDOWN. INTERCONNECT WITH FIRE ALARM SYSTEM.
2. AUTOMATIC SHUT-OFF IS NOT REQUIRED WHEN ALL OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE DIRECT ACCESS TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FT. PER C.M.C. 608.1 EXCEPTION #2.
3. LIGHT FIXTURES MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-GRID.
4. PC TITLE 24 HAS BEEN RUN FOR WORSE CASE OUTDOOR VENTILATION REQUIREMENTS (SEE OUTDOOR VENTILATION ON SHEET N2.0 FOR OUR OUTDOOR VENTILATION DESIGN REQUIREMENT NOTES)
5. ACCEPTANCE TESTING PER ENERGY CODE SECTION 10-103

GENERAL NOTES

MEP COMPONENT ANCHORAGE NOTES

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

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR110/220 VOLT RECEPTACLES HAVING A FLEXBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

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

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

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

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

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES

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

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

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

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

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

MMM
(20) BUILDINGS

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
RANDOLF PATRICK CHAVEZ
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

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

REVISIONS

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	06/07/2023
PROJECT NO:	1791-23

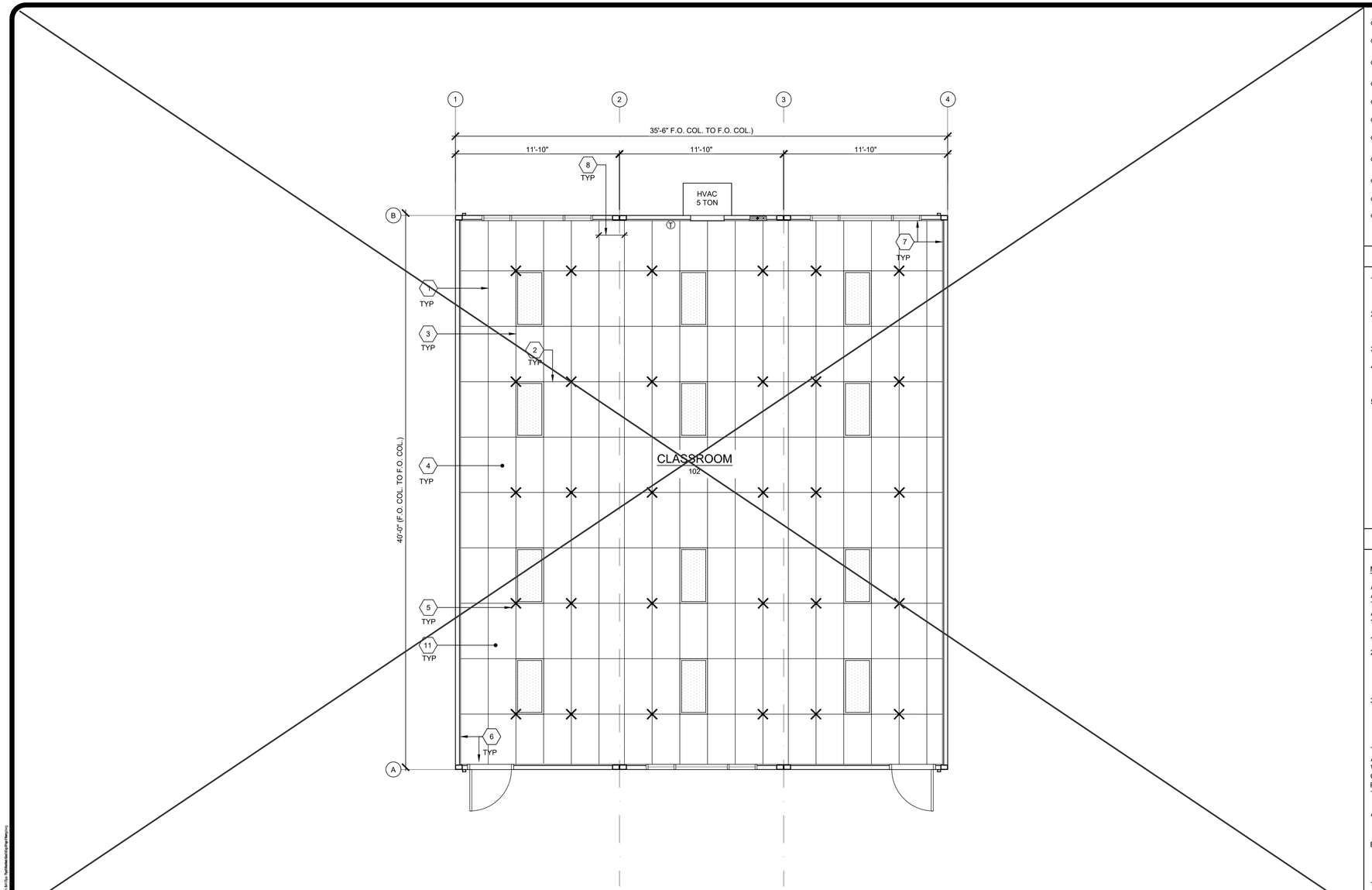
SHEET TITLE:

TYPICAL
REFLECTED CEILING
PLAN

SHEET NUMBER:

M1.0A

D:\XXXX_{94c40a4f3d0d2fc2fe3db5c83c3f3f2b}\M\M1.0A.dwg 6/7/2023 8:57:33 AM jhe



TYPICAL REFLECTED CEILING PLAN - BUILDING 'A'

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

1. MAIN TEE RUNNER TYP. PER TABLE A, SHEET M1.7
2. CROSS TEE RUNNER TYP. PER TABLE A, SHEET M1.7
3. INTERIOR LIGHT FIXTURE, REFER TO SHEET SHEET E1.0 FOR SPEC'S ATTACHMENT PER DETAIL 7/M1.4
4. CEILING HEIGHT @ 8'-6"
5. STRUT/SPLAY WIRE ASSEMBLY, SEE 2/M1.4 FOR DETAILS
6. FIXED CEILING END, SEE DETAIL 5A/M1.4
7. FREE CEILING END, SEE DETAIL 5B/M1.4
8. CENTER SECTION THAT CROSSES MODULE LINE TO BE FIELD INSTALLED, SEE DETAIL 5C/M1.4
9. TYP. HVAC UNIT
10. NOT USED
11. T-BAR SUSPENDED CEILING TYP.

KEY NOTES

1. WHERE TWO OR MORE HVAC UNITS SERVE A COMMON SPACE, UNITS SHALL BE EQUIPPED WITH A DUCT SMOKE DETECTOR FOR AUTO SHUTDOWN. INTERCONNECT WITH FIRE ALARM SYSTEM.
2. AUTOMATIC SHUT-OFF IS NOT REQUIRED WHEN ALL OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE DIRECT ACCESS TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FT. PER C.M.C. 608.1 EXCEPTION #2.
3. LIGHT FIXTURES MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-GRID.
4. PC TITLE 24 HAS BEEN RUN FOR WORSE CASE OUTDOOR VENTILATION REQUIREMENTS (SEE OUTDOOR VENTILATION ON SHEET N2.0 FOR OUR OUTDOOR VENTILATION DESIGN REQUIREMENT NOTES)
5. ACCEPTANCE TESTING PER ENERGY CODE SECTION 10-103

GENERAL NOTES

MEP COMPONENT ANCHORAGE NOTES

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

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR110/220 VOLT RECEPTACLES HAVING A FLEXBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

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

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

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

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

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTES

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

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

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

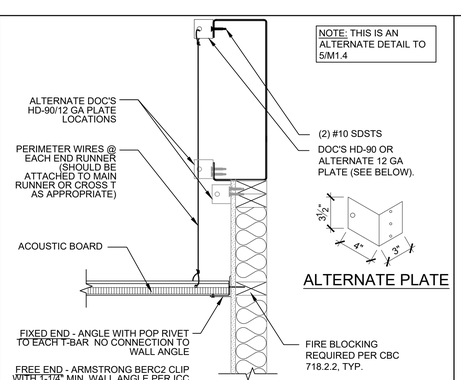
MP☒ MD☒ PP☒ E☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

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

MEP COMPONENT ANCHORAGE NOTES

NOT USED

NOT USED



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

SUSPENDED CEILING ATTACHMENT DETAIL | 2

BUILDING SIZE SCHEDULE			
BUILDING SIZE (FT)	TOTAL # OF 12'-0" WIDE MODULES	TOTAL # OF CENTER MODULES	OVERALL BUILDING WIDTH[1]
☐ 24'x40'	2	0	23'-8½"
☒ 36'x40'	3	1	35'-6¾"
☐ 48'x40'	4	2	47'-5"

NOTES:

1. TOTAL BUILDING WIDTH INCLUDES ¼" PER MODULE CONSTRUCTION TOLERANCE PER FOUNDATION SHEET, S1.1.

BUILDING SIZE SCHEDULE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

MMM
(20) BUILDINGS

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
TIMOTHY PATRICK CONNOR
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

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

REVISIONS

1	
2	
3	
4	

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	06/07/2023
PROJECT NO:	1791-23

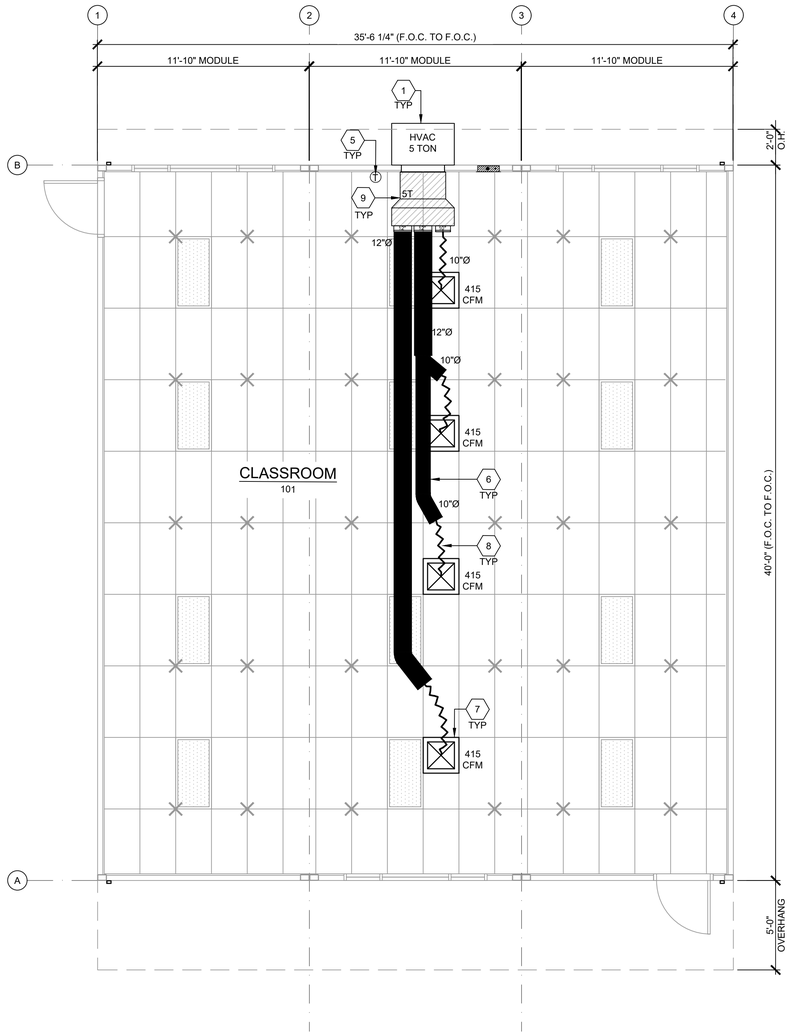
SHEET TITLE:

TYPICAL
REFLECTED CEILING
PLAN

SHEET NUMBER:

M1.0B

G:\XXXXX_(ams)\ARCHIVE\20-CB-4(a)-SD\SD\SHEETS\M\ 24/7/2023 8:57:20/2023/AM /M /mcmahon/documents/1791/1791-23/sheets/1791-23-sheet-plan(p)SHEET-M1.0B.dwg 23/1/2023/Mahon (LAYTo_Tp/Model/Sp/Pg/Pw/Pm/)



WALL HUNG OPTION

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

1

NOT USED

SHEET NOTES

1. WHERE TWO OR MORE HVAC UNITS SERVE A COMMON SPACE, UNITS SHALL BE EQUIPPED WITH A DUCT SMOKE DETECTOR FOR AUTOMATIC SHUTDOWN. INTERCONNECT WITH FIRE ALARM SYSTEM.
2. AIR-MOVING SYSTEMS SUPPLYING AIR IN EXCESS OF 2000 CUBIC FEET PER MINUTE TO ENCLOSED SPACES WITHIN THE BUILDING SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF.
3. AUTOMATIC SHUT-OFF IS NOT REQUIRED WHEN OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE A DIRECT EXIT TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FT. (PER C.M.C. 608.1 EXCEPTION #2.)
4. LIGHTING FIXTURE MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-GRID.
5. FOR T-BAR CEILING SPECIFICATIONS, SEE M1.7.

KEY NOTES

1. WALL HUNG HVAC UNIT - SEE 10/M1.4.
2. NOT USED.
3. NOT USED.
4. NOT USED.
5. THERMOSTAT - 48" A.F.F, MAX TO TOP OF BOX
6. CONCEALED SUPPLY AIR DUCT ABOVE T-BAR CEILING - SEE 1/M1.4.
7. TYPICAL 4-WAY SUPPLY AIR REGISTER LOCATION AND SIZE MAY VARY PER CEILING LAYOUT AND BUILDING SIZE - SEE 7/M1.5.
8. FLEX DUCT - NOMINAL 10" MIN. (MAY VARY) - SEE 8/M1.5.
9. RETURN AIR AS PART OF UNIT.

NOTE: 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 AND CMC 603.4.1

BUILDING SIZE SCHEDULE

BUILDING SIZE (FT)	TOTAL # OF 12'-0" WIDE MODULES	TOTAL # OF CENTER MODULES	OVERALL BUILDING WIDTH[1]
☐ 24'x40'	2	0	23'-6½"
☒ 36'x40'	3	1	35'-6¼"
☐ 48'x40'	4	2	47'-5"

NOTES:

1. TOTAL BUILDING WIDTH INCLUDES ¼" PER MODULE CONSTRUCTION TOLERANCE PER FOUNDATION SHEET, S1.1.
2. REFER TO SHEET M1.7 FOR TYPICAL NOTES AND CALL OUTS.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

MMM
(20) BUILDINGS

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
PATRICK CHANG
No. C12631
Ren. 8-31-25
STATE OF CALIFORNIA

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

REVISIONS

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	06/07/2023
PROJECT NO:	1791-23

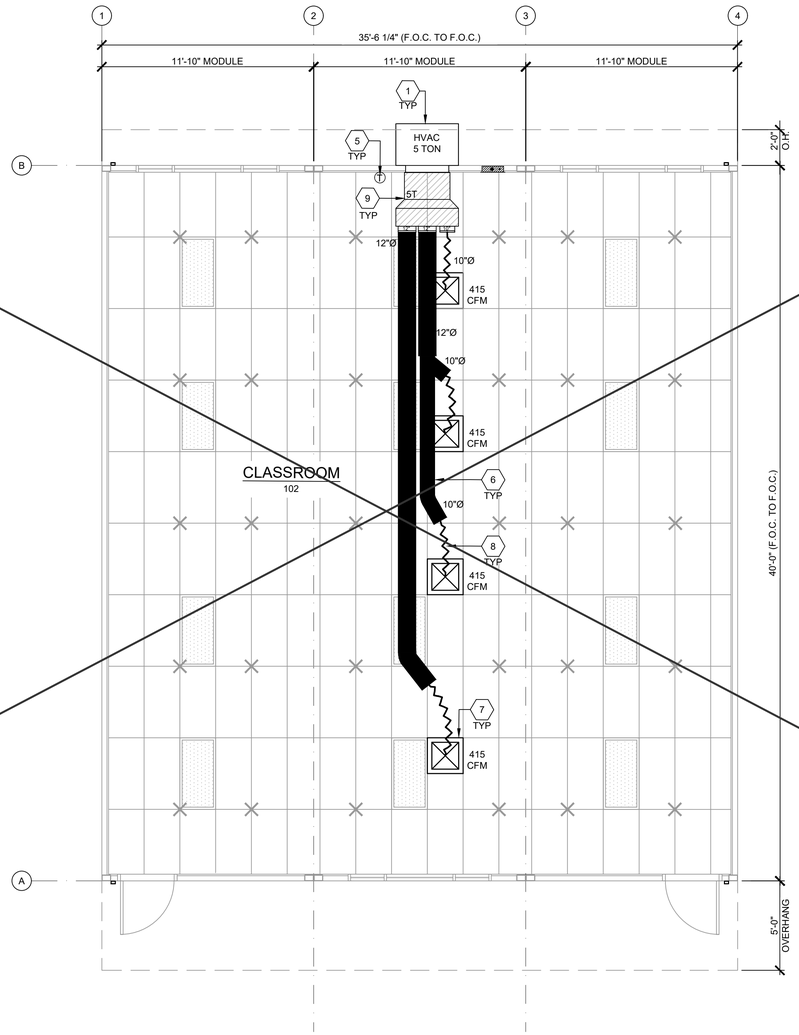
SHEET TITLE:

TYPICAL MECHANICAL PLAN

SHEET NUMBER:

M1.1A

D:\XXXXX_[plan]\[SUB]\Dv3\[SUB]_[SUB]v[R].[SUB] AM_1[Plan][SUB][SUB][SUB



WALL HUNG OPTION

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

1

NOT USED

SHEET NOTES

1. WHERE TWO OR MORE HVAC UNITS SERVE A COMMON SPACE, UNITS SHALL BE EQUIPPED WITH A DUCT SMOKE DETECTOR FOR AUTOMATIC SHUTDOWN. INTERCONNECT WITH FIRE ALARM SYSTEM.
2. AIR-MOVING SYSTEMS SUPPLYING AIR IN EXCESS OF 2000 CUBIC FEET PER MINUTE TO ENCLOSED SPACES WITHIN THE BUILDING SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF.
3. AUTOMATIC SHUT-OFF IS NOT REQUIRED WHEN OCCUPIED ROOMS SERVED BY THE AIR HANDLING EQUIPMENT HAVE A DIRECT EXIT TO THE EXTERIOR AND THE TRAVEL DISTANCE DOES NOT EXCEED 100 FT. (PER C.M.C. 608.1 EXCEPTION #2.)
4. LIGHTING FIXTURE MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-GRID.
5. FOR T-BAR CEILING SPECIFICATIONS, SEE M1.7.

KEY NOTES

1. WALL HUNG HVAC UNIT - SEE 10/M1.4.
2. NOT USED.
3. NOT USED.
4. NOT USED.
5. THERMOSTAT - 48" A.F.F, MAX TO TOP OF BOX
6. CONCEALED SUPPLY AIR DUCT ABOVE T-BAR CEILING - SEE 1/M1.4.
7. TYPICAL 4-WAY SUPPLY AIR REGISTER LOCATION AND SIZE MAY VARY PER CEILING LAYOUT AND BUILDING SIZE - SEE 7/M1.5.
8. FLEX DUCT - NOMINAL 10" MIN. (MAY VARY) - SEE 8/M1.5.
9. RETURN AIR AS PART OF UNIT.

NOTE: 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 AND CMC 603.4.1

BUILDING SIZE SCHEDULE

BUILDING SIZE (FT)	TOTAL # OF 12'-0" WIDE MODULES	TOTAL # OF CENTER MODULES	OVERALL BUILDING WIDTH[1]
☐ 24'x40'	2	0	23'-8½"
☒ 36'x40'	3	1	35'-6¼"
☐ 48'x40'	4	2	47'-5"

NOTES:

1. TOTAL BUILDING WIDTH INCLUDES ¼" PER MODULE CONSTRUCTION TOLERANCE PER FOUNDATION SHEET, S1.1.
2. REFER TO SHEET M1.7 FOR TYPICAL NOTES AND CALL OUTS.

BUILDING SIZE SCHEDULE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

MMM
(20) BUILDINGS

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
PATRICK CHAN
No. C12631
Ren. 3-31-25
STATE OF CALIFORNIA

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

REVISIONS

1	
2	
3	
4	

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	06/07/2023
PROJECT NO:	1791-23

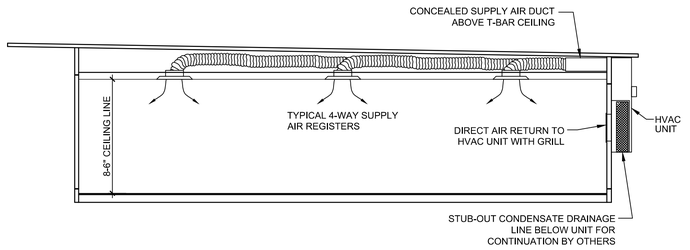
SHEET TITLE:

TYPICAL MECHANICAL PLAN

SHEET NUMBER:

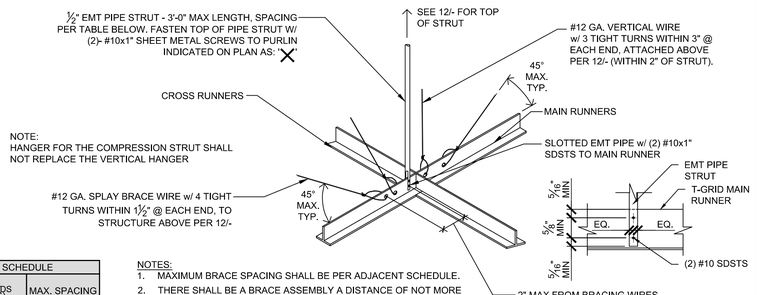
M1.1B

©XXXXX. jcwAnQAAT0SAOh-QB-1MVB1:S5F2E5K1H0 AN:C7ZE7SZ:S5F2E5K1H0 AN:C7ZE7SZ:S5F2E5K1H0 AN:C7ZE7SZ



TYPICAL MECHANICAL SECTION

SCALE: 3/16" = 1'-0" | 1

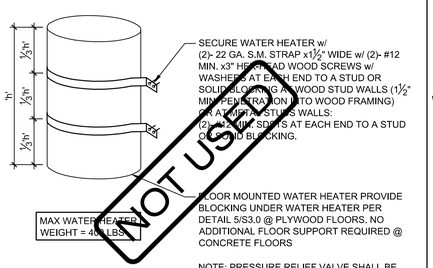


BRACING SCHEDULE	
SITE SPECIFIC S_{DS} (PER SHEET TS)	MAX. SPACING
☐ $S_{DS} \le 1.15$	12'x12'
☒ $1.15 \le S_{DS} \le 1.73$	8'x12'
☐ $S_{DS} > 1.73$	8'x8'

NOTES:
1. MAXIMUM BRACE SPACING SHALL BE PER ADJACENT SCHEDULE.
2. THERE SHALL BE A BRACE ASSEMBLY A DISTANCE OF NOT MORE THAN ONE HALF OF THE ABOVE SPACING FROM EACH SURROUNDING WALL, EXPANSION JOINT AND AT THE EDGES OF ANY CEILING VERTICAL OFFSET. FOR EXAMPLE, WHERE THE BRACE SPACING IS 8'x12", THE DISTANCE SHALL BE 4 FEET IN THE DIRECTION OF THE 8 FOOT SPACING AND 6 FEET IN THE DIRECTION OF THE 12 FOOT SPACING. FOR FURTHER INFORMATION REFER TO SPECIFICATIONS ON SHEET M1.7.

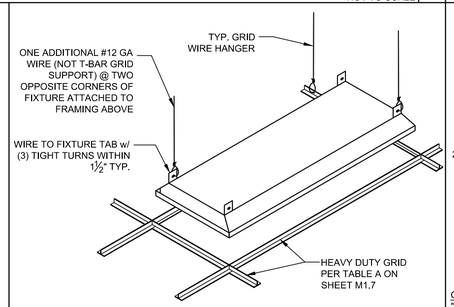
STRUT/SPLAY WIRE ASSEMBLY DETAIL

NOT TO SCALE | 2



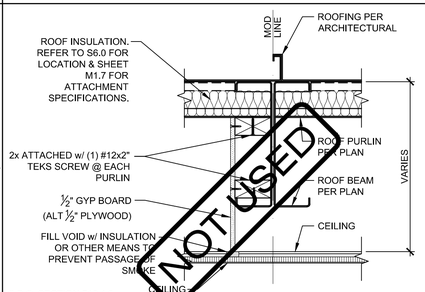
WATER HEATER STRAP DETAIL

NOT TO SCALE | 6



LIGHT FIXTURE ATTACHMENT

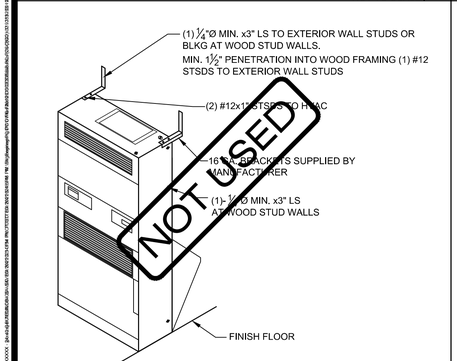
NOT TO SCALE | 7



C.B.C. SECTION 718.4.3:
"DRAFTSTOPPING SHALL BE INSTALLED IN ATTICS AND CONCEALED ROOF SPACES, SUCH THAT ANY HORIZONTAL AREA DOES NOT EXCEED 3,000 SQUARE FEET."
NOTE EXCEPTION #2:
IN GROUP A, E, H, I, L OCCUPANCIES, WHERE AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 IS INSTALLED, THE AREA BETWEEN DRAFT STOPS MAY BE 9,000 SQUARE FEET AND THE GREATEST HORIZONTAL DISTANCE MAY BE 100 FEET.

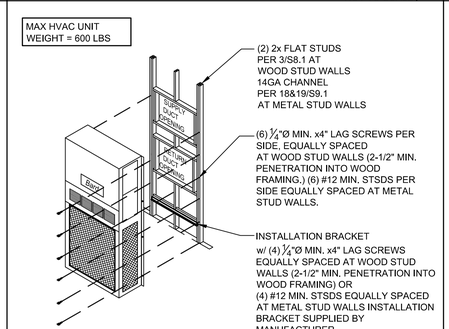
CEILING DRAFT STOP DETAIL

SCALE: 1-1/2" = 1'-0" | 8



INTERIOR HVAC ANCHORAGE

9

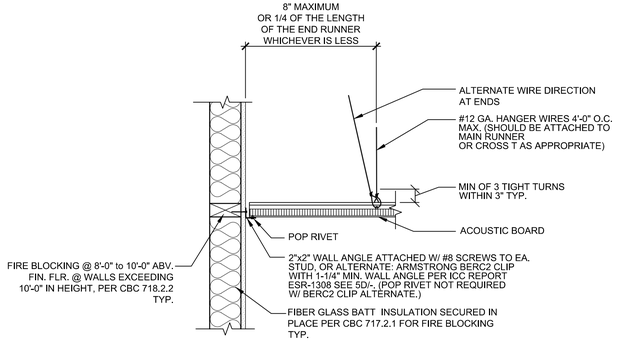


WALL MOUNT HVAC ANCHORAGE

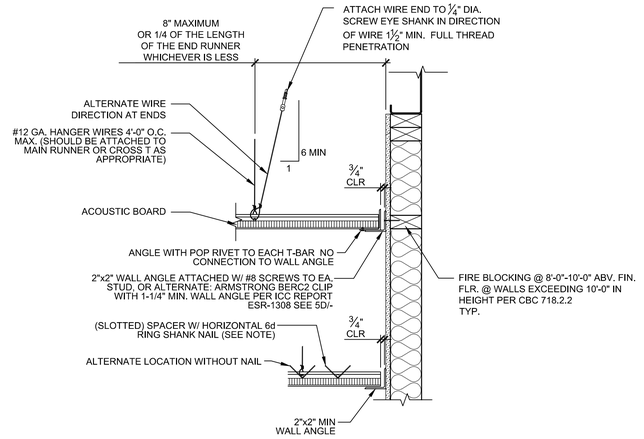
NOT TO SCALE | 10

NOT USED

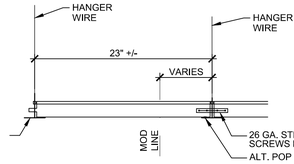
11



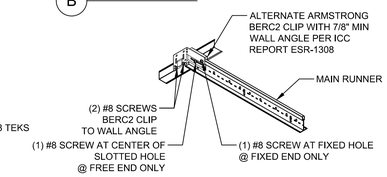
A FIXED END



B FREE END



C RUNNER SPLICE AND CEILING CONNECTION @ MODULE LINE

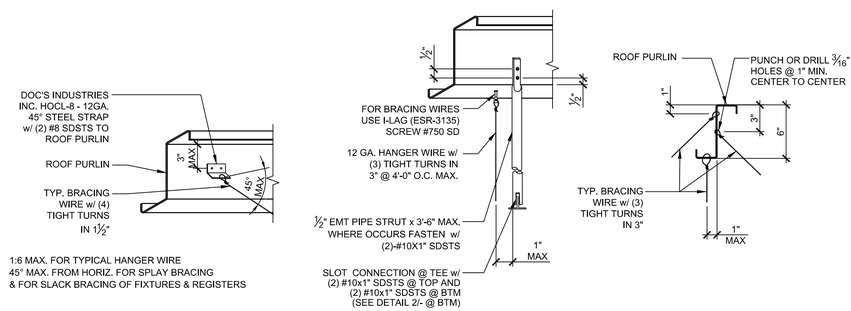


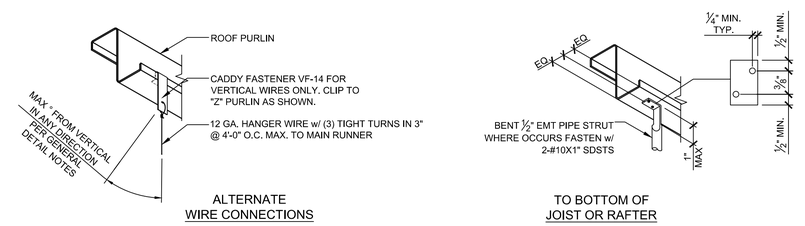
D ALTERNATE BERC2 CLIP DETAIL

NOTE:
NAILS AT THE END OF HORIZONTAL STRUTS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTERLINE OF SPAN OF STRUT.

SUSPENDED CEILING ATTACHMENT DETAILS

SCALE: 1-1/2" = 1'-0" | 5





GENERAL DETAIL NOTES:
1. TYPICAL HANGER WIRES & VERTICAL STRUTS SHALL BE INSTALLED AT A MAXIMUM 1:6 ANGLE FROM VERTICAL.
2. TYPICAL SPLAY BRACING WIRES & WIRES FOR SLACK BRACING OF FIXTURES OR REGISTERS SHALL BE INSTALLED AT A MAXIMUM 45° ANGLE FROM THE SURFACE TO WHICH THEY ARE ATTACHED.

SUSPENDED CEILING TO PURLIN CONNECTION DETAILS

NOT TO SCALE | 12

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
RAYMOND PATRICK CHRISTY
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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

REVISIONS

DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

SHEET TITLE:

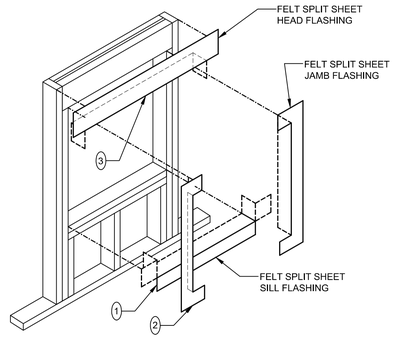
MECHANICAL
AND CEILING
DETAILS

SHEET NUMBER:

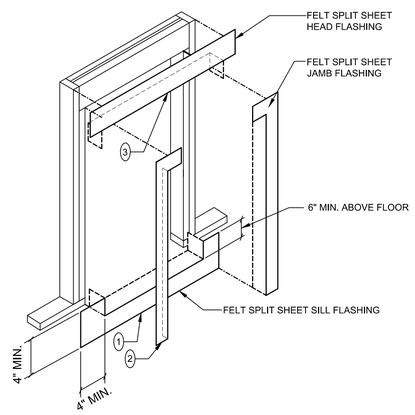
M1.4

NOT USED

1



WINDOW CONDITION

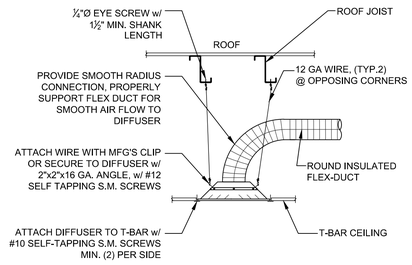


DOOR CONDITION

(#) = SEQUENCE OF ORDER

FLASHING @ WALL OPENINGS

NOT TO SCALE | 2



FLEX DUCTING SUPPORT DETAIL

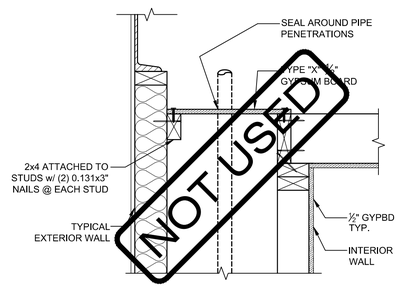
NOT TO SCALE | 8

NOT USED

3

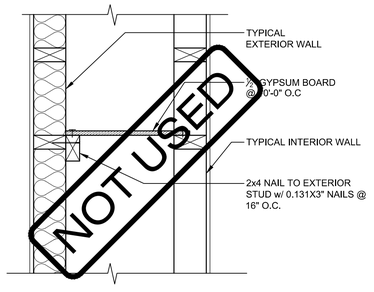
DRAFT STOP @ PLUMBING CHASE

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



SECTION VIEW

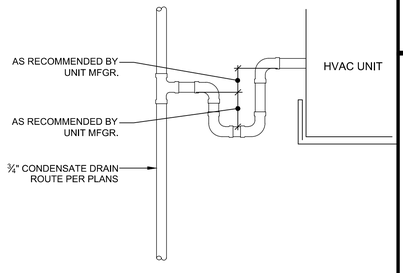
NOTE:
REFER TO DETAILS 8/M1.6 AND 13/M1.6 FOR ADDITIONAL FRAMING DETAILS



PLAN VIEW

DRAFT STOP @ PLUMBING CHASE

SCALE: 1" = 1'-0" | 5

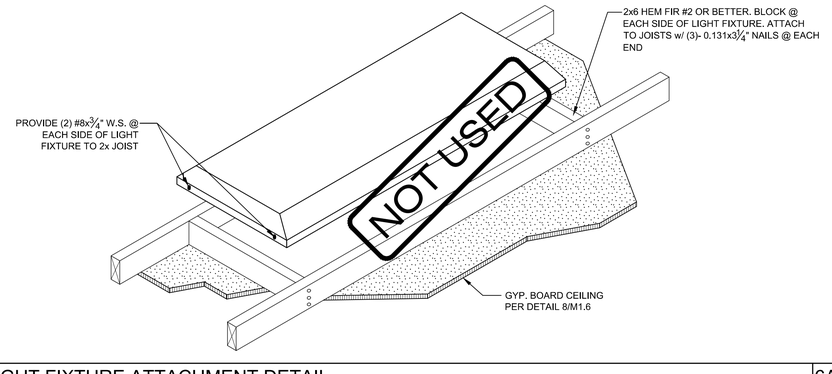


CONDENSATE DETAIL

NOT TO SCALE | 9

NOT USED

3

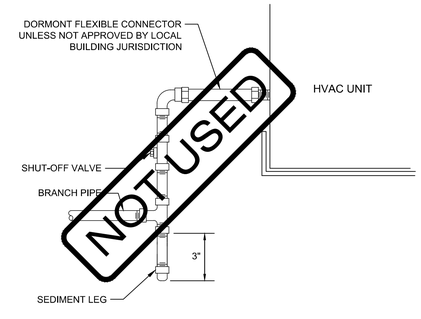


LIGHT FIXTURE ATTACHMENT DETAIL

NOT TO SCALE | 6A

NOT USED

6B



GAS CONNECTION DETAIL

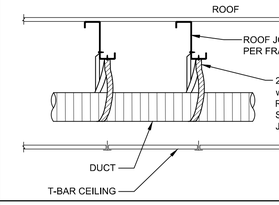
NOT TO SCALE | 10

REGISTER MOUNTING DETAIL

NOT TO SCALE | 7

NOTES:

1. DUCTWORK SHALL BE SUPPORTED FROM ROOF JOISTS AT 4'-0" O.C.MAX TO ELIMINATE SAGGING.
2. FLEX DUCT (5'-0" MAX LENGTH) SHALL BE PULLED TIGHT TO ELIMINATE SAGGING.
3. DUCT TO PLENUM ATTACHMENT SHALL BE (3) #8 SCREWS & COVERED WITH 367-17 TAPE (UL181B-FX).
4. FOR DUCT ATTACHMENT TO DIFFUSER - SEE DETAIL 7/-.
5. ALL DUCTS TO BE SEALED WITH 367 MASTIC TAPE, OUTSIDE OF THE INSULATING LINER ON THE FLEX DUCT TO BE SEALED WITH 558CA CODE APPROVED DUCT TAPE.



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

.
.
.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
ANDREW PATRICK O'HEARN
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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

REVISIONS

1	
2	
3	
4	

DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

SHEET TITLE:

MECHANICAL & CEILING DETAILS

SHEET NUMBER:

M1.5

D:\XXXX_jjh-kyl\ARCHIVE\Dwl\jjh-dpb-09-29\20200106 PK\20191183 20200106 PK.dwg,Thursday,[JHK]\PM\Plotted\20200106\M1.5 - 20191183 1:1 by rfeliciano\Auto\jjh\jjh\jjh

1. CEILING GRID SYSTEMS IN SEISMIC ZONES D, E, F, MUST BE RATED "HEAVY DUTY", AS DEFINED BY ASTM C635. PROVIDE GRID COMPONENTS AS SPECIFIED IN TABLE A BELOW, OR APPROVED EQUAL. GRID METAL FRAMING PIECES SHALL BE DESIGNED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOT LESS THAN 180 LBS. IN COMPRESSION AND TENSION, PER ASTM E580.

2. SUSPENSION WIRE SHALL BE CLASS 1 ZINC-COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641, WIRE SHALL BE #12 GAGE WITH SOFT TEMPER AND A MINIMUM TENSILE STRENGTH OF 70 KSI.

3. WHEN HANGER AND BRACING WIRES ARE ATTACHED TO CONCRETE ABOVE, TESTS PER D.S.A. IR 25-2.13 SECTION 6.8 MUST BE PERFORMED. POWER ACTUATED FASTENERS IN CONCRETE ARE NOT ALLOWED FOR BRACING WIRE.

4. 12 GA. (MINIMUM) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4'-0" x 4'-0 GRID SPACING, ATTACH TO MAIN RUNNER. SPLICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED BY D.S.A.

5. PROVIDE 12 GA. HANGER WIRES WITHIN 8" OF THE ENDS OF ALL MAIN AND CROSS RUNNERS OR AT 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, AT THE PERIMETER OF THE CEILING AREA.

6. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAINTAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1:6 OUT OF PLUMB ARE TO HAVE COUNTER-BRACED WIRES.

7. CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 3/4 INCH CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE AND A MINIMUM OF 3/4 INCH CLEAR OF WALL.

8. PERIMETER SUPPORT ANGLES SHALL BE AT LEAST 2 INCHES WIDE, OR USE PROPRIETARY ANGLES & SEISMIC CLIPS THAT HAVE A VALID EVALUATION REPORT.

9. AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16 GA. WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNERS MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNERS IS 8" OR LESS, THIS INTERLOCK IS NOT REQUIRED.

10. CEILING AREAS EXCEEDING 2,500 SQUARE FEET SHALL HAVE A SEISMIC SEPARATION JOINT.

11. EXPANSION JOINTS SHALL BE PROVIDED AT INTERSECTIONS OF CORRIDORS, LOBBIES AND OTHER SIMILAR AREAS.

12. PENETRATIONS THROUGH THE CEILING, SUCH AS FIRE SPRINKLERS, SHALL HAVE A 2 INCH OVERSIZED RING, SLEEVE OR ADAPTER TO ALLOW FREE MOVEMENT INDEPENDENT OF THE CEILING. ALTERNATE: A FLEXIBLE SPRINKLER FITTING THAT ALLOWS 1 INCH OF MOVEMENT CAN BE USED.

13. LATERAL FORCE BRACING IS REQUIRED FOR ALL CEILINGS, EXCEPT CEILING AREAS OF 144 SQUARE FEET OR LESS WITH PERIMETER WALLS THAT ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES. SPACING OF BRACING ASSEMBLIES MUST BE SHOWN ON THE PLANS.

14. LATERAL FORCE BRACING CONSISTS OF A SET OF 1 COMPRESSION STRUT AND FOUR #12 GA. SPLAYED BRACING WIRES, ORIENTED 90 DEGREES FROM EACH OTHER AT THE FOLLOWING SPACING:
    (A) FOR SCHOOL BUILDINGS, PLACE SETS OF SPLAY WIRES AT A SPACING NOT MORE THAN 12 FEET BY 12 FEET ON CENTER.
    (B) PROVIDE SPLAY WIRES AT LOCATIONS NOT MORE THAN 1/2 THE ABOVE SPACING FROM EACH PERIMETER WALL OR AT THE EDGE OF VERTICAL CEILING OFFSETS. THE SLOPE OF THESE WIRES SHOULD NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND SHOULD BE TAUT WITHOUT CAUSING THE CEILING TO LIFT. SPLICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL D.S.A. APPROVAL.

15. COMPRESSION STRUTS SHALL BE ABLE TO RESIST THE VERTICAL PULL INDUCED BY BRACING WIRES, AND SHALL NOT BE MORE THAN 1:6 OUT OF PLUMB.

16. FASTEN HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS WITHIN A DISTANCE OF 3 INCHES. FASTEN SPLAY WIRES WITH 4 TIGHT TURNS WITHIN A DISTANCE OF 1-1/2 INCHES. HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.

17. SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT ETC.

18. ATTACH ALL LIGHT FIXTURES AND AIR TERMINALS TO THE CEILING GRID RUNNERS WITH SCREWS OR APPROVED FASTENERS AS REQUIRED TO RESIST A HORIZONTAL FORCE EQUAL TO THE FIXTURES' WEIGHT. MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH LIGHT FIXTURE.

19. FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM, BUT THEY MUST HAVE A MINIMUM OF TWO #12 GA. SLACK SAFETY WIRES ATTACHED AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. FIXTURES WEIGHING LESS THAN 10 POUNDS MAY HAVE AT LEAST ONE #12 GA. SLACK SAFETY WIRE.

20. LIGHT FIXTURES AND OTHER CEILING DEVICES WEIGHING MORE THAN 56 POUNDS SHALL BE INDEPENDENTLY SUPPORTED BY NO LESS THAN FOUR (4) TAUT #12 GAGE WIRES, ATTACHED TO THE STRUCTURE ABOVE. WIRES MUST BE ABLE TO SUPPORT FOUR (4) TIMES THE WEIGHT OF THE UNIT.

21. ALL LIGHT-WEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, ETC., SHALL BE ATTACHED TO THE CEILING GRID PER SECTION 2.6.3 OF D.S.A. IR 25-2.13. IN ADDITION, DEVICES WEIGHING MORE THAN 10 LBS SHALL HAVE A #12 GAUGE SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE PER SECTION 7.2.2 OF D.S.A. IR 25-2.13. DEVICES WEIGHING MORE THAN 20 LBS. SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE PER SECTION 7.3.4 OF D.S.A. IR 25-2.13.

22. PANELS THAT WEIGH MORE THAN 0.5 LBS/SQ.FT. (PSF), OTHER THAN MINERAL FIBER ACOUSTIC TILES, SHALL BE POSITIVELY ATTACHED TO CEILING SUSPENSION RUNNERS.

23. ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL-FACED FIBERGLASS, LAY-IN PANELS, SQUARE EDGE, ASTM FLAME SPREAD CLASS T, 24"x48" MODULAR SIZE, LIGHT REFLECTION 75% MINIMUM, NOISE REDUCTION COEFFICIENT OF 0.65 MINIMUM, MAXIMUM SMOKE DENSITY NOT TO EXCEED 450. FLAME SPREAD RATING MAXIMUM OF 200. PANELS ARE NOT ALLOWED TO SUPPORT ANY FIXTURE, TERMINAL OR DEVICE.

24. THERMOSTAT SHALL BE PROGRAMMED TO PREVENT SUPPLEMENTARY HEATER OPERATION WHEN THE HEATING LOAD CAN BE MET BY THE HEAT PUMP ALONE. THE CUT-ON TEMPERATURE FOR COMPRESSION HEATING MUST BE HIGHER THAN THE CUT-ON TEMPERATURE FOR SUPPLEMENTARY HEATING, AND THE CUT-OFF TEMPERATURE FOR COMPRESSION HEATING MUST BE HIGHER THAN THE CUT-OFF TEMPERATURE FOR SUPPLEMENTARY HEATING PER CEC 2019 SECTION 110.2(b).

TABLE A - HEAVY DUTY GRID COMPONENTS

MANUFACTURER	MAIN TEE	H.D. 4' CROSS TEE	H.D. 2' CROSS TEE	RUNNER SPLICE DETAIL	ICBO ER REPORT
DONN/USG	DX-26	DX-424	DX-216	N/A	ICC-ESR-1222
ARMSTRONG	7301	XL7341	XL8320	N/A	ICC-ESR-1308
CHICAGO/ROCKFON	200.01	1274.01	1202.01	N/A	ICC-ESR-2631

NOTE: ALL GRID COMPONENTS SHALL BE BY THE SAME MANUFACTURER

METAL SUSPENSION SYSTEMS FOR LAY IN PANEL CEILING

HVAC CFM CHART

	MODEL #	DESCRIPTION	MAX. CFM	UNIT WEIGHT (LBS)	EER	COP	CLIMATE ZONE(S)
BARD WALL HUNG	~~W42HA-A~~	~~3½ TON HEAT PUMP~~	~~1260~~	~~471~~	~~10.2~~	~~3.0~~	~~1-16~~
	~~W48HA-A~~	~~4 TON HEAT PUMP~~	~~1400~~	~~480~~	~~10.0~~	~~3.0~~	~~1-16~~
	W60HA-A	5 TON HEAT PUMP	1450	525	10.4	3.0	1-16

HVAC SCHEDULE

BUILDING SIZE	# OF HVAC		
	3½ TON HVAC	4 TON HVAC	5 TON HVAC
☐ 24'x40'	1		
☒ 36'x40'		1	
☐ 48'x40'	2		

MINIMUM INSULATION SCHEDULE

ZONE	WALL	ROOF		FLOORS (NON-CONCRETE)	CONCRETE FLOORS
		BATTS	RIGID		
1-16	*R-13	**R-19	***R-1	R-13	N/A

* IN ADDITION TO R-13 BATT INSULATION, R-4 RIGID INSULATION TO BE USED OVER METAL FRAMED WALLS
** SECURED w/ 22 GA WIRE @ 16" O.C.
*** R-1 MAY BE ACHEIVED w/ POLYSTYRENE OR INSULATION TAPE APLLIED TO THE TOP FLANGE OF PURLINS, TYP.

ADDITIONAL HVAC NOTES:
MANUAL OVERRIDE CONTROLS ARE A MANDATORY MEASURE UNDER ENERGY CODE SECTION 120.2(e).
ALL HVAC SYSTEMS SHALL HAVE A MANUAL OVERRIDE ACCESSIBLE TO THE OCCUPANTS THAT ALLOWS THEM TO TURN ON THE HVAC SYSTEM DURING NORMAL UNOCCUPIED TIMES. THIS CAN BE A MANUAL OVERRIDE FOR UP TO 4 HOURS, OCCUPANCY SENSOR, OR A 4 HOUR MANUALLY OPERATED TIMER.

HVAC SCHEDULES

HEATING VENTILATING AND AIR CONDITIONING (HVAC)

1. HEAT PUMP: SINGLE PACKAGE WALL-MOUNTED AIR-TO-AIR ELECTRIC HEAT PUMP UNIT SHALL BE RATED IN ACCORDANCE WITH A.R.I. STANDARD 240-77. MAXIMUM AC SIZE FOR THIS BUILDING WILL BE A 5-TON UNIT. ALL UNITS SHALL BE 230/208 VOLT, 1 PHASE SYSTEM, UL TESTED & APPROVED OR COMPARABLE, AND MEET CURRENT ENERGY STANDARDS.
   A. THE SYSTEM SHALL MAINTAIN AN AUTOMATICALLY CONTROLLED INDOOR CLASSROOM TEMPERATURE OF 78 DEGREES F. WHEN THE OUTDOOR DRY BULB TEMPERATURE VARIES BETWEEN 100 DEGREES F. IN THE SUMMER.
   B. THE SYSTEM MUST MAINTAIN THE ABOVE TEMPERATURE WHEN THE DAMPER IS ADJUSTED TO USE APPROXIMATELY ONE-THIRD FRESH AIR.
2. DUCTWORK
   A. CONSTRUCT ALL DUCTWORK OF GALVANIZED SHEET METAL IN ACCORDANCE WITH C.M.C., ASHRAE GUIDE EQUIPMENT VOLUME, AND SMACNA LOW VELOCITY DUCT CONSTRUCTION MANUAL, LATEST EDITIONS. ALL DUCTWORK SHALL BE INSULATED WITH 1" THICK FIBERGLASS DUCT WRAP WITH VAPOR BARRIER. PROVIDE 1" DUCT ATTENUATION AT ALL DUCTWORK WITHIN 2'-0" OF HVAC UNIT.
   B. NON-METALLIC DUCTWORK OPTION: IN ACCESSIBLE CONCEALED PORTIONS OF DUCT SYSTEM, RIGID 1" FIBERGLASS OR INSULATED FLEX-DUCT WITH VAPOR BARRIER MAY BE SUBSTITUTED FOR SHEET METAL DUCTWORK. ALL DUCTWORK WITHIN 2'-0" OF THE HVAC UNIT AND ALL INTERFACE CONNECTIONS SHALL BE METAL. DUCTWORK AND REINFORCEMENT SHALL BE DESIGNED FOR 2" STATIC PRESSURE. REFERENCE BRANDS: OWENS-CORNING FIBERGLASS DUCTBOARD, 1" THICK, AND MICRO-AIRE TYPE 475. NON-METALLIC DUCTWORK SHALL CONFORM TO NFPA 90-A AND SMACNA CLASS 1 RATING.
   C. DUCT INSTALLATION AND PLENUMS SHALL MEET THE REQUIREMENTS OF ENERGY CODE SECTION 120.4 AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. HORIZONTAL FLEX DUCT SHALL BE SUPPORTED AT A MAXIMUM 4' INTERVALS, WITH HANGING STRAPS A MINIMUM 1-1/2" WIDE. DUCTS MUST BE PULLED TIGHTS WITH A MAXIMUM SAG OF 1/2" PER FOOT OF HORIZONTAL RUN. DUCTS SHALL NOT BE KINKED OR CRUSHED. BEND/RADIUS EQUAL TO THE DUCT DIAMETER OR GREATER.
   D. SIZES OF SUPPLY AND RETURN DUCTS SHALL BE SPECIFIED ON PLANS. HVAC CURB SUPPLY AND RETURN DUCTS SHALL BE THE SAME SIZE AND ALLIGN WITH THE HVAC UNIT.
3. AIR DUCT INSULATION AND LININGS SHALL COMPLY WITH FLAME SPREAD LESS THAN OR EQUAL TO 25, SMOKE GENERATION LESS THAN OR EQUAL TO 50.
4. SUPPLY AIR DIFFUSERS SHALL BE 675 CFM MAXIMUM, 12" ROUND. 1" FIBERGLASS OR FLEXDUCT DUCTWORK SPECIFICALLY DESIGNED TO PROVIDE AIR THERMAL COOLING SYSTEMS. 24"x8"x1" MICRO-AIRE TYPE #475 OWENS-CORNING, KNAUF, CERTAINTEED, OR EQUAL AND 90-B: UL #131 TEST, CLASS 1 RATING WITH "SMACNA".
5. REGISTERS AND DIFFUSERS: PROVIDE THREE (MINIMUM) 4-WAY THROW AIR DIFFUSERS AS MANUFACTURED BY CARNES, TITUS, HART AND COOLEY, METALAIRE, SHOEMAKER, BARBER-COLEMAN OR KRUEGER COMMERCIAL GRADE GRILLS AND REGISTERS.
6. AIR CONDITIONING CONTROLS: PROVIDE ELECTRONIC PROGRAMMABLE THERMOSTAT. THERMOSTAT SHALL BE PROGRAMMED WITH EXPECTED OCCUPIED TIMERS. AIR HANDLER FAN WILL BE PROGRAMMED TO RUN DURING ALL OCCUPIED TIMES. PRE-OCCUPANCY PURGE SHALL BE PROGRAMMED ONE HOUR PRIOR TO THE MODULAR BUILDING BEING NORMALLY OCCUPIED.
   THERMOSTAT SHALL HAVE THE FOLLOWING FUNCTIONS:
   A. 5 AND 2 WEEKDAY/WEEKEND PROGRAMMING DAYS WITH 4 SEPARATE TIME/TEMPERATURE SETTINGS FOR A 24-HOUR PERIOD.
   B. KEY BOARD LOCKOUT SWITCH.
   C. PROGRAMMABLE DISPLAY.
   D. 2-HOUR OVERRIDE MINIMUM.
   E. STATUS INDICATED LED'S.
   F. BATTERY BACK-UP.
   G. PROVIDE LOCKING CLEAR THERMOSTAT COVER WITH THERMOSTAT COVER WITH ACCESS HOLE FOR PROGRAM OVERRIDE. WHITE RODGERS IF92-371. MOUNT TOP OF BOX @ 48" A.F.F. MAX. (WHERE SEALED, SETTINGS & ADJUSTMENTS CAN BE DONE BY SERVICE PERSONNEL ONLY.)
7. THERMAL INSULATION
   A. ROOF INSULATION: R-19 WITH 22 GA. WIRE @ 16" O.C. & R-1 TOP OF PURLINS.
   B. WALLS INSULATION: R-13 KRAFT FACED. (R-4 INSULATION OVER METAL FRAMED WALLS)
   C. NON-CONCRETE FLOORS INSULATION: R-13
   D. CONCRETE FLOORS INSULATION: N/A
   E. FLAME SPREAD AND SMOKE DEVELOPMENT SHALL CONFORM TO CALIFORNIA BUILDING CODE SEC. 720.
8. FACTORY-MADE AIR DUCTS
   A. FACTORY-MADE AIR DUCTS SHALL BE APPROVED FOR THE USE INTENDED OR SHALL CONFORM TO THE REQUIREMENTS OF C.M.C. SECTION 601.0.
   B. EACH PORTION OF A FACTORY-MADE AIR DUCT SYSTEM SHALL BE IDENTIFIED BY THE MANUFACTURER WITH A LABEL OR OTHER SUITABLE IDENTIFICATION INDICATING COMPLIANCE WITH C.M.C. SECTION 601.0 AND ITS CLASS DESIGNATION. THESE DUCTS SHALL BE LISTED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF THEIR LISTING AND THE REQUIREMENTS OF C.M.C. SECTION 601.0.
   C. DUCT SUPPORT FLEX DUCT TO BE SUPPORTED WITH 1-1/2" WIDE x26 GA. GALV. STRAP @ MAX 4'-0" O.C. ATTACH TO RAFTER WITH TWO #8 S.M.S. @ EACH END.
   D. SUPPLY AIR PLENUM TO BE SUPPORTED WITH 1-1/2" WIDE x26 GA. GALV. STRAPS MINIMUM 2 PER PLENUM.
   E. SUPPLY AIR BOX AND DIFFUSERS TO BE SUPPORTED WITH (2) 12 GA. HANGER WIRES TO BOX @ OPPOSITE CORNERS.
   F. SUPPLY AIR BOX AND DIFFUSERS TO BE BRACED WITH (2) 12 GA. SLACK WIRES TO BOX @ OPPOSITE CORNERS. ATTACH SUPPLY AIR DIFFUSERS TO CEILING GRID TO RESIST A LATERAL LOAD EQUAL TO THE WEIGHT OF THE DIFFUSER AND SUPPLY AIR BOX WITH TWO #8 S.M.S.
9. FIREBLOCKING SHALL BE PROVIDED IN THE FOLLOWING LOCATIONS:
   A. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES;
   B. AT THE CEILING AND FLOOR LEVELS;
   C. AND AT 10-FOOT (3048mm) INTERVALS BOTH VERTICAL AND HORIZONTAL.
   REFERENCE 2019 CBC SECTION 718.
10. THE INTERIOR ENVIRONMENT SHALL BE ASSEMBLED WITH PRODUCTS THAT CONTRIBUTE TO A HEALTHY INDOOR AIR QUALITY (IAQ). THE FOLLOWING SHALL COMPLY TITLE 24, PART 11 ("CAL-GREEN"), SECTION 5.504.4. (SEE SHEET N1.0, SECTION 9C "INTERIOR AIR QUALITY CONTROL")
11. HVAC FILTER
    A. FILTERS SHALL HAVE A "MINIMUM EFFICIENCY REPORTING VALUE" OF 13 WITH 2" DEPTH MIN. (MERV 13) AND SHALL BE INSTALLED PRIOR TO OCCUPANCY AND RECOMMENDATIONS FOR MAINTENANCE WITH FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL, PER 2019 CEC SECTION 5.504.5.3.
    B. INSTALLED FILTERS SHALL BE CLEARLY LABELED BY THE MANUFACTURER INCLUDING THE MERV RATING, PER 2019 CBC SECTION 5.504.5.3.1
12. ROOF MOUNTED HVAC
    A. 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 DUCTS.
13. HVAC CONTROLS
    A. THERMOSTAT (BY OTHERS) WILL BE PROGRAMMED WHEN THE MODULAR BUILDING IS PLACED ON A SITE TO ENSURE THE MINIMUM AIR RATE WILL BE SUPPLIED TO THE SPACE AT ALL USUALLY OCCUPIED TIMES AND PROGRAMMED TO PROVIDE A PRE-OCCUPANCY PURGE ONE HOUR PRIOR TO THE MODULAR BUILDING BEING NORMALLY OCCUPIED PER ENERGY CODE 120.1(c)1.
14. UPON SITE PLACEMENT OR SITE CONSTRUCTION, THE OPERATION AND MAINTENANCE DOCUMENTATION FOR ALL MECHANICAL AND LIGHTING SYSTEMS AND CONTROLS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR FOR THE PERMANENT MODULAR RELOCATABLE BUILDING AND DELIVERED TO THE OWNER.

HVAC NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME
24' x 40' THRU 48' x 40'
(HIGH SEISMIC)
2GO®

SITE SPECIFIC PROJECT NAME
.
.
.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
ANDREW PATRICK CARNEY
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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

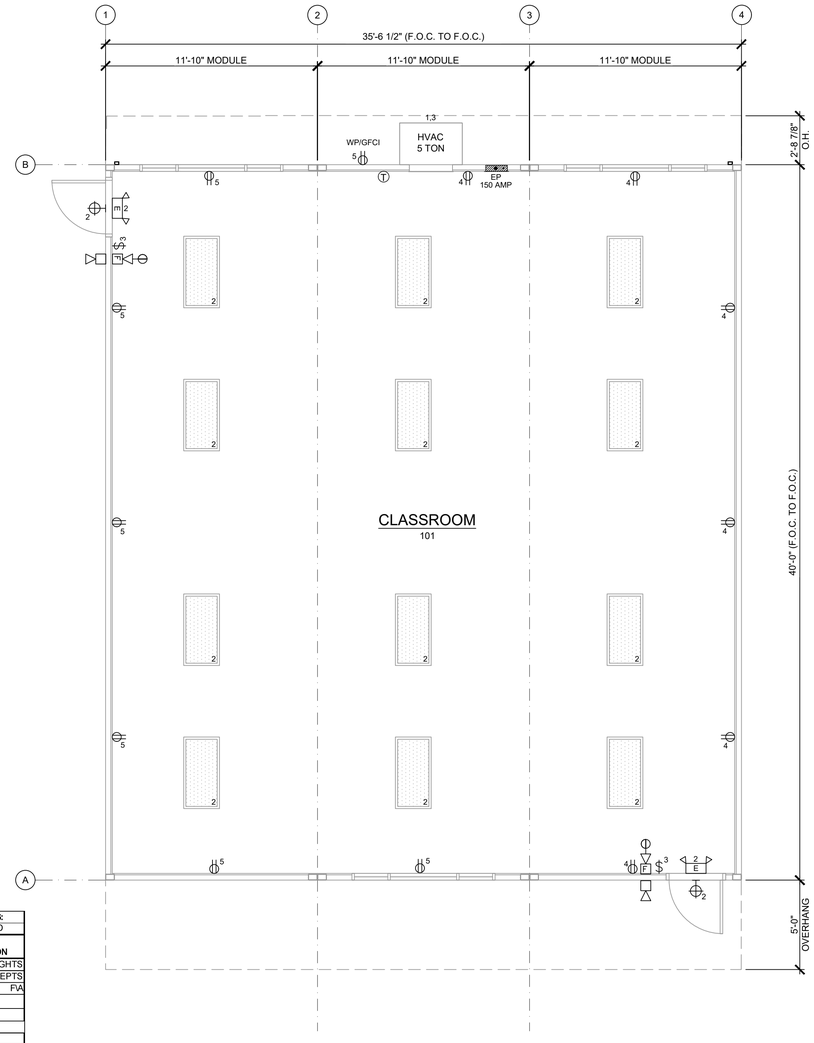
REVISIONS
1
2
3
4

DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

SHEET TITLE:
CEILING & MECHANICAL NOTES & SCHEDULES

SHEET NUMBER:
M1.7

D:\XXXX_{84A1AB4B-B5BC-4B1A-9B1-B6C3B7B3E4A8}.dwg 3/12/2024 8:38:19 AM ANDREW PATRICK CARNEY



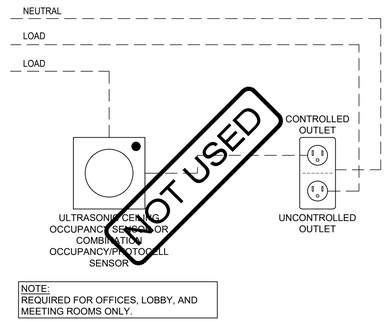
Panel:	EP			PHASE: SINGLE		VOLTS: 120/240		MAIN (AMPS): 150			BUSS (AMPS): 150			LOCATION: INTERIOR		FEED: OUT BACK - ABOVE FLOOR			MOUNTING: RECESSED		
OBJECT DESCRIPTION	WATTS PER	QTY	LCL	WATTS A	WATTS B	BRK	POLE	WIRE SIZE	CKT #	LEG A	LEG B	CKT #	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	LCL	QTY	WATTS PER	OBJECT DESCRIPTION
HVAC	8640	1	X	*7680*		80	2	#2	1	X		2	#12	1	20	*4320*			6	720	CLASSROOM LIGHTS
-	8640	-	X		*7680*	-	-	-	3		X	4	#12	1	20		*1080*		6	180	RECEPTS
RECEPTS	180	7		*1260*		20	1	#12	5	X		6	#12	1	20	*400*			1	400	F/A
					0				7		X	8					*0*				
				0					9	X		10				*0*					
					0				11		X	12					*0*				
				0					13	X		14				*0*					
					0				15		X	16					*0*				
				0					17	X		18				*0*					
					0				19		X	20					*0*				
				0					21	X		22				*0*					
					0				23		X	24					*0*				
				0					25	X		26				*0*					
					0				27		X	28					*0*				
				0					29	X		30				*0*					
	LEG TOTALS			*8940*	*7680*											*4720*	*1080*	LEG TOTALS			

LCL=3840+22420=26260

TOTAL WATTS: 26260 | LEG BALANCE: 21.9% | TOTAL AMPS: 109.42

TYPICAL ELECTRICAL PLAN - 'A' LIVERMORE

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



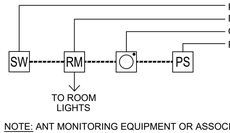
NOTE:
REQUIRED FOR OFFICES, LOBBY, AND MEETING ROOMS ONLY.

TYP. CONTROLED/UNCONTROLED RECEPTACLE WIRING DIAGRAM

N.T.S. | 2

ENERGY CONTROLS

1. AUTOMATIC DAYLIGHTING CONTROLS:
   NOT REQUIRED IN ROOMS WHERE COMBINED INSTALLED LIGHTING POWER IN COMBINED SKYLIT & PRIMARY DAYLIT ZONES ARE <120 WATTS. INSTALLED WATTAGE IN PRIMARY SIDELIT DAY LIT ZONE IS 90 WATTS (2x 45w, AS SHOWN IN THE SHADED AREAS). THEREFORE, AUTOMATIC DAYLIGHTING CONTROLS ARE ONLY REQUIRED WHEN "SOLATUBES" ARE INSTALLED. SEE A1.1. WHEN DAYLIT CONTROLS ARE REQUIRED, PROVIDE COMBINATION OCCUPANCY/PHOTOCELL SENSOR.
2. ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) CONNECTION:
   PER TITLE 24 CODE, "AN EMCS MAY BE INSTALLED TO COMPLY WITH THE REQUIREMENTS OF ONE OR MORE LIGHTING CONTROLS IF IT MEETS THE MINIMUM REQUIREMENTS". PC MAY CONTAIN OCCUPANCY SENSORS AND PHOTOCELL CONTROL LIGHTING, IN THAT CASE, AN EMCS IS NOT REQUIRED FOR THIS PC.
3. SOLAR-READY ZONE REQUIREMENTS:
   REQUIREMENTS & TABLE CAN BE FOUND ON SHEET A2.0
4. SUGGESTED CONTROLS DIAGRAM FOR TYPICAL DAYLIT ZONE:



NOTE: ANT MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED IN THE BASE PC.

ENERGY NOTES

GENERAL NOTES

1. THE PROJECT ARCHITECT SHALL BE RESPONSIBLE FOR THE PLACEMENT OF HEAT & SMOKE DETECTORS, EVACS AND PULL STATIONS, AND COMPLETE FIRE ALARM SYSTEM WHEN THE SITE SPECIFIC PROJECT IS REQUIRED TO MEET THE PROVISIONS OF SB 575 & CBC 907.2.3.
2. ANY MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED IN THIS BASE PC.
3. PULL STATIONS ARE REQUIRED AT EVERY EXIT. AT ANY SPACE REQUIRING 2 OR MORE EXITS, PROVIDE EXIT SIGNS (CBC 1013) AND EMERGENCY EXIT ILLUMINATION (CBC 1008).
4. SEE PLANS FOR LOCATIONS OF ALL DEVICES.
5. STUB-OUT LOCATIONS FOR ELECTRICAL PANEL, FIRE ALARM, AND DATA BOXES ARE SHOWN DIAGRAMMATICAL ONLY. EXACT LOCATIONS MAY VARY +/- SEVERAL FEET. PLEASE CONTACT AMERICAN MODULAR SYSTEMS FOR EXACT LOCATIONS. POINT OF CONNECTION WILL BE AT FACE OF BUILDING.
6. STUB-UP ALL FIRE ALARM JUNCTION BOXES TO ACCESSIBLE ATTIC SPACE WITH 1/2" MIN. GALV. THIN WALL TUBING (EMT). DO NOT CONNECT FIRE ALARM CONDUIT WITH ANY OTHER ELECTRICAL CONDUIT.
7. THE LIGHTS FOR EACH ROOM OVER 250 SQ FT SHALL BE CONTROLLED BY ULTRASONIC OCCUPANCY SENSOR: WATT STOPPER W-500A, W-1000A, OR W-2000A (OR EQUAL) BASED ON THE ROOM SIZE, IN CONJUNCTION WITH BI-LEVEL SWITCHING.
8. FIXTURE MOUNTING SHALL COMPLY WITH CALIFORNIA SEISMIC REGULATIONS.
9. LIGHTING FIXTURES MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-BAR GRID LAYOUT.

DEMAND RESPONSE CONTROLS

1. DEMAND RESPONSE CONTROLS ARE REQUIRED IN BUILDINGS LARGER THAN 10,000 S.F.
2. DEMAND RESPONSE CONTROLS, WHERE REQUIRED, ARE TO BE PROVIDED BY OTHERS.
3. DEMAND RESPONSE CONTROLS AND EQUIPMENT SHALL BE CAPABLE OF RECEIVING AND AUTOMATICALLY RESPONDING TO AT LEAST ONE STANDARD-BASED MESSAGING PROTOCOL WHICH ENABLES DEMAND RESPONSE AFTER RECEIVING A DEMAND SIGNAL.
4. SITE-SPECIFIC PROJECTS WHICH REQUIRE DEMAND RESPONSE CONTROLS MUST INCLUDE THE SUBMITTAL OF FORM NRCC-ELC-O1-E TO DSA (BY OTHERS).

STANDARD ELECTRICAL SYMBOLS

- ELECTRICAL PANEL - MOUNT FLUSH WITH WALL FINISH, U.O.N.
- INCANDESCENT WALL MOUNTED INTERIOR LIGHT FIXTURE MODEL: LEVITON 9850-LED, 10W MAX
- EXTERIOR LIGHT FIXTURE @ EACH DOOR, LED OR EQUAL (MAX 40W) - WHERE THERE ARE TWO OR MORE EXITS, A MINIMUM 90 MIN. BATTERY BACK-UP IS REQUIRED
- EXTERIOR SOFFIT MOUNTED LIGHT FIXTURE ENERTRON MODEL 110BSH2X7LED-50 LOW PROFILE CANOPY, LED OR EQUAL (MAX 16W)
- UNCONTROLLED-DUPLEX WALL CONVENIENCE OUTLET - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N.
- CONTROLLED-DUPLEX WALL CONVENIENCE OUTLET - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N. - TO BE CONTROLLED BY OCCUPANCY SENSOR.
- COMBO-DUPLEX WALL CONVENIENCE OUTLET - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N.
- FOURPLEX WALL OUTLET - MOUNT @ +18" A.F.F. TO CENTER LINE - U.O.N.
- WP/GFCI WEATHER-PROOF GROUND FAULT CIRCUIT INTERRUPT OUTLET - MOUNT @ 18" A.F.F. TO CENTERLINE - U.O.N.
- GFCI GROUND FAULT CIRCUIT INTERRUPT OUTLET - MOUNT @ 18" A.F.F. TO CENTERLINE - U.O.N.
- $ CONTROLLED-SINGLE POLE LIGHT SWITCHES - MOUNT @ +48" A.F.F. MAX TO TOP OF BOX - HUBBELL PREMIUM, BRYANT HEAVY DUTY, OR LEVITON SPECIFICATIONS GRADE.
- $a SINGLE POLE SOLA-TUBE SWITCH - MOUNT @ +48" A.F.F. MAX TO TOP OF BOX.
- $T SPRING WOUND COUNTDOWN TIMER, 125-277 VAC, 50/60 Hz, DSPT, 60 MINUTE MAX, ITEM FD460MW OR EQUAL. - MOUNT @ +48" A.F.F. MAX TO TOP OF BOX.
- :a SWITCH SUBSCRIPTS - a=DEVICE CONTROLLED.
- T THERMOSTAT - TOP OF BOX MOUNTED @ +48" A.F.F.
- J JUNCTION BOX - SIZE / LOCATION A.F.F. / TYPE AS NOTED
- J ELECTRICAL CROSSOVER - J-BOX - ABOVE CEILING - #1- 4"x1", #22- 4"x2"
- CLOCK/SPEAKER COMBO - MOUNT @ +90" A.F.F. TO CENTERLINE - U.O.N. - DEVICE BY OTHERS
- DATA/COMMUNICATION - OUTLET ONLY - 4" SQ BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N., AND PROVIDE A 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- CATV CATV OUTLET - OUTLET ONLY - PROVIDE (1) 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER - (1) 3/4" DIA CONDUIT - STUBBED ABOVE CEILING - DEVICES BY OTHERS
- INTERCOM/TELEPHONE - OUTLET ONLY - 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER - MOUNT TOP OF BOX @ +48" A.F.F. U.O.N. AND PROVIDE A 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- S SECURITY/INTRUSION KEY PAD - OUTLET ONLY - 4" SQ. BOX w/ SINGLE DEVICE RING AND COVER, MOUNT TOP OF BOX @ +48" A.F.F., AND ONE 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- ULTRASONIC OCCUPANCY SENSOR - MOUNTED TO FINISH CEILING
- F FIRE ALARM PULL STATION - OUTLET ONLY - PROVIDE (1) 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER - TOP OF OPERATING HANDLE MOUNTED BETWEEN +42" TO +48" A.F.F. - DEVICE BY OTHERS
- M MINI HORN BOX - OUTLET ONLY - SINGLE DEVICE RING AND COVER - MOUNTED +80" A.F.F. TO CENTERLINE BUT NO GREATER THAN +96" - DEVICE BY OTHERS
- VISUAL FIRE ALARM ALARM - OUTLET ONLY - 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER - MOUNT SO THAT LENS IS BETWEEN 80"-96" A.F.F. (CEILING MOUNT PER NFPA72 TABLE 6-4.4.1(b)) DEVICE BY OTHERS.
- 2'x4' LED EDGE FIT FIXTURE, MODEL: LSI, SFP24 5601K LUMENS - 45 WATTS MAX OR EQUAL
- 2'x2' LED EDGE FIT FIXTURE, MODEL: LSI, SFP22 3163K LUMENS - 30 WATTS MAX OR EQUAL
- 24 HOUR EMERGENCY LIGHTING WITH MINIMUM 90-MINUTE BATTERY BACK-UP - WHERE TWO OR MORE EXITS ARE REQUIRED
- E EMERGENCY EXIT LIGHT, - WHERE THERE ARE TWO OR MORE EXITS, AN EXIT SIGN WITH INTEGRAL EMERGENCY LIGHTING W/MINIMUM 90-MINUTE BATTERY BACK-UP IS REQUIRED.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

AMS®
American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

MMM
(20) BUILDINGS

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
ANTHONY PATRICK MUNOZ
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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

REVISIONS

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	05/04/2023
PROJECT NO:	1791-23

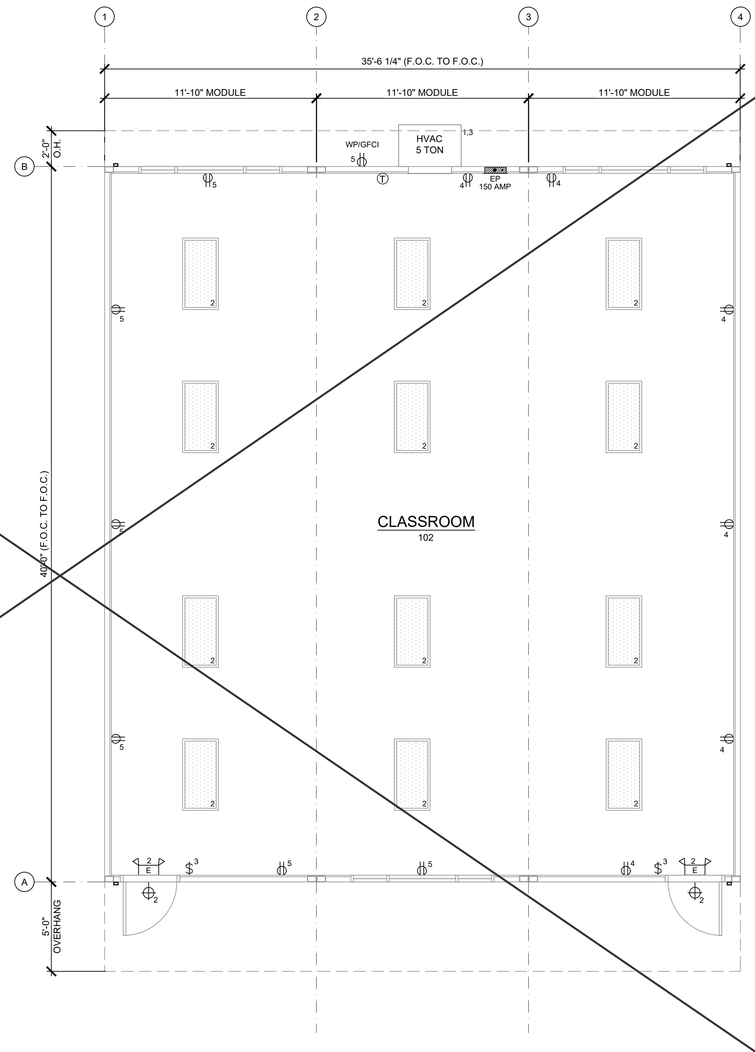
SHEET TITLE:

ELECTRICAL PLAN A

SHEET NUMBER:

E1.0A

02-XXXXX - [e-mail] [GUID] [Job] [Job] [Job



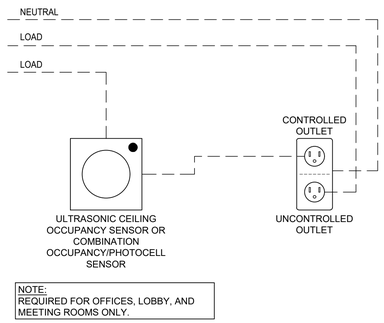
Panel:	EP			PHASE: SINGLE		VOLTS: 120/240		MAIN (AMPS): 250			BUSS (AMPS): 150			LOCATION: INTERIOR		FEED: OUT BACK - ABOVE FLOOR			MOUNTING: RECESSED	
OBJECT DESCRIPTION	WATTS PER	QTY	LCL	WATTS A	WATTS B	BRK	POLE	WIRE SIZE	CKT #	LEG A	LEG B	CKT #	WIRE SIZE	POLE	BRK	WATTS A	WATTS B	LCL	QTY	WATTS PER	OBJECT DESCRIPTION
HVAC	8640	1	X	7680		80	2	#2	1	X		2	#12	1	20	4320			6	720	CLASSROOM LIGHTS
-	8640	-	X		7680	-	-	-	3		X	4	#12	1	20		1080		6	180	RECEPTS
RECEPTS	180	7		1260		20	1	#12	5	X		6	#12	1	20	400			1	400	FA
					0				7		X	8					0				
				0					9	X		10				0					
					0				11		X	12					0				
				0					13	X		14				0					
					0				15		X	16					0				
				0					17	X		18				0					
					0				19		X	20					0				
				0					21	X		22				0					
					0				23		X	24					0				
				0					25	X		26				0					
					0				27		X	28					0				
				0					29	X		30				0					
	LEG TOTALS			8940	7680											4720	1080	LEG TOTALS			

LCL=3640+22420=26260

TOTAL WATTS: 26260 | LEG BALANCE: 21.9% | TOTAL AMPS: 109.42

TYPICAL ELECTRICAL PLAN - 'B'

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



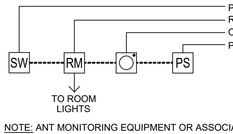
NOTE:
REQUIRED FOR OFFICES, LOBBY, AND MEETING ROOMS ONLY.

TYP. CONTROLED/UNCONTROLED RECEPTACLE WIRING DIAGRAM

N.T.S. | 2

ENERGY CONTROLS

1. AUTOMATIC DAYLIGHTING CONTROLS:
   NOT REQUIRED IN ROOMS WHERE COMBINED INSTALLED LIGHTING POWER IN COMBINED SKYLIT & PRIMARY DAYLIT ZONES ARE <120 WATTS. INSTALLED WATTAGE IN PRIMARY SIDELIT DAY LIT ZONE IS 90 WATTS (2x 45w, AS SHOWN IN THE SHADED AREAS). THEREFORE, AUTOMATIC DAYLIGHTING CONTROLS ARE ONLY REQUIRED WHEN "SOLATUBES" ARE INSTALLED. SEE A1.1. WHEN DAYLIT CONTROLS ARE REQUIRED, PROVIDE COMBINATION OCCUPANCY/PHOTOCELL SENSOR.
2. ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) CONNECTION:
   PER TITLE 24 CODE, "AN EMCS MAY BE INSTALLED TO COMPLY WITH THE REQUIREMENTS OF ONE OR MORE LIGHTING CONTROLS IF IT MEETS THE MINIMUM REQUIREMENTS". PC MAY CONTAIN OCCUPANCY SENSORS AND PHOTOCELL CONTROL LIGHTING, IN THAT CASE, AN EMCS IS NOT REQUIRED FOR THIS PC.
3. SOLAR-READY ZONE REQUIREMENTS:
   REQUIREMENTS & TABLE CAN BE FOUND ON SHEET A2.0
4. SUGGESTED CONTROLS DIAGRAM FOR TYPICAL DAYLIT ZONE:



NOTE: ANT MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED IN THE BASE PC.

ENERGY NOTES

GENERAL NOTES

1. THE PROJECT ARCHITECT SHALL BE RESPONSIBLE FOR THE PLACEMENT OF HEAT & SMOKE DETECTORS, EVACS AND PULL STATIONS, AND COMPLETE FIRE ALARM SYSTEM WHEN THE SITE SPECIFIC PROJECT IS REQUIRED TO MEET THE PROVISIONS OF SB 575 & CBC 907.2.3.
2. ANY MONITORING EQUIPMENT OR ASSOCIATED SENSORS ARE SITE SPECIFIC AND ARE NOT INCLUDED IN THIS BASE PC.
3. PULL STATIONS ARE REQUIRED AT EVERY EXIT. AT ANY SPACE REQUIRING 2 OR MORE EXITS, PROVIDE EXIT SIGNS (CBC 1013) AND EMERGENCY EXIT ILLUMINATION (CBC 1008).
4. SEE PLANS FOR LOCATIONS OF ALL DEVICES.
5. STUB-OUT LOCATIONS FOR ELECTRICAL PANEL, FIRE ALARM, AND DATA BOXES ARE SHOWN DIAGRAMMATICAL ONLY. EXACT LOCATIONS MAY VARY +/- SEVERAL FEET. PLEASE CONTACT AMERICAN MODULAR SYSTEMS FOR EXACT LOCATIONS. POINT OF CONNECTION WILL BE AT FACE OF BUILDING.
6. STUB-UP ALL FIRE ALARM JUNCTION BOXES TO ACCESSIBLE ATTIC SPACE WITH 1/2" MIN. GALV. THIN WALL TUBING (EMT). DO NOT CONNECT FIRE ALARM CONDUIT WITH ANY OTHER ELECTRICAL CONDUIT.
7. THE LIGHTS FOR EACH ROOM OVER 250 SQ FT SHALL BE CONTROLLED BY ULTRASONIC OCCUPANCY SENSOR: WATT STOPPER W-500A, W-1000A, OR W-2000A (OR EQUAL) BASED ON THE ROOM SIZE, IN CONJUNCTION WITH BI-LEVEL SWITCHING.
8. FIXTURE MOUNTING SHALL COMPLY WITH CALIFORNIA SEISMIC REGULATIONS.
9. LIGHTING FIXTURES MAY BE INSTALLED ROTATED 90° FROM SHOWN TO MATCH T-BAR GRID LAYOUT.

DEMAND RESPONSE CONTROLS

1. DEMAND RESPONSE CONTROLS ARE REQUIRED IN BUILDINGS LARGER THAN 10,000 S.F.
2. DEMAND RESPONSE CONTROLS, WHERE REQUIRED, ARE TO BE PROVIDED BY OTHERS.
3. DEMAND RESPONSE CONTROLS AND EQUIPMENT SHALL BE CAPABLE OF RECEIVING AND AUTOMATICALLY RESPONDING TO AT LEAST ONE STANDARD-BASED MESSAGING PROTOCOL WHICH ENABLES DEMAND RESPONSE AFTER RECEIVING A DEMAND SIGNAL.
4. SITE-SPECIFIC PROJECTS WHICH REQUIRE DEMAND RESPONSE CONTROLS MUST INCLUDE THE SUBMITTAL OF FORM NRCC-ELC-O1-E TO DSA (BY OTHERS).

STANDARD ELECTRICAL SYMBOLS

- ELECTRICAL PANEL - MOUNT FLUSH WITH WALL FINISH, U.O.N.
- INCANDESCENT WALL MOUNTED INTERIOR LIGHT FIXTURE MODEL: LEVITON 9850-LED, 10W MAX
- EXTERIOR LIGHT FIXTURE @ EACH DOOR, LED OR EQUAL (MAX 40W) - WHERE THERE ARE TWO OR MORE EXITS, A MINIMUM 90 MIN. BATTERY BACK-UP IS REQUIRED
- EXTERIOR SOFFIT MOUNTED LIGHT FIXTURE ENERTRON MODEL 110BSH2X/LED-50 LOW PROFILE CANOPY, LED OR EQUAL (MAX 16W)
- UNCONTROLLED-DUPLEX WALL CONVENIENCE OUTLET - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N.
- CONTROLLED-DUPLEX WALL CONVENIENCE OUTLET - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N. - TO BE CONTROLLED BY OCCUPANCY SENSOR.
- COMBO-DUPLEX WALL CONVENIENCE OUTLET - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N.
- FOURPLEX WALL OUTLET - MOUNT @ +18" A.F.F. TO CENTER LINE - U.O.N.
- WP/GFCI WEATHER-PROOF GROUND FAULT CIRCUIT INTERRUPT OUTLET - MOUNT @ 18" A.F.F. TO CENTERLINE - U.O.N.
- GFCI GROUND FAULT CIRCUIT INTERRUPT OUTLET - MOUNT @ 18" A.F.F. TO CENTERLINE - U.O.N.
- CONTROLLED-SINGLE POLE LIGHT SWITCHES - MOUNT @ +48" A.F.F. MAX TO TOP OF BOX - HUBBELL PREMIUM, BRYANT HEAVY DUTY, OR LEVITON SPECIFICATIONS GRADE.
- THERMOSTAT - TOP OF BOX MOUNTED @ +48" A.F.F.
- JUNCTION BOX - SIZE / LOCATION A.F.F. / TYPE AS NOTED
- ELECTRICAL CROSSOVER - J-BOX - ABOVE CEILING - #1- 4"x1", #22- 4"x2"
- CLOCK/SPEAKER COMBO - MOUNT @ +90" A.F.F. TO CENTERLINE - U.O.N. - DEVICE BY OTHERS
- SPEAKER - OUTLET ONLY - 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +84" A.F.F. TO CENTERLINE - DEVICE BY OTHERS
- DATA/COMMUNICATION - OUTLET ONLY - 4" SQ BOX WITH SINGLE DEVICE RING AND COVER - MOUNT @ +18" A.F.F. TO CENTERLINE, U.O.N., AND PROVIDE A 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- CATV CATV OUTLET - OUTLET ONLY - PROVIDE (1) 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER - (1) 3/4" DIA CONDUIT - STUBBED ABOVE CEILING - DEVICES BY OTHERS
- INTERCOM/TELEPHONE - OUTLET ONLY - 4" SQ. BOX WITH SINGLE DEVICE RING AND COVER - MOUNT TOP OF BOX @ +48" A.F.F. U.O.N. AND PROVIDE A 3/4" CONDUIT STUBBED ABOVE CEILING - DEVICE BY OTHERS
- ULTRASONIC OCCUPANCY SENSOR - MOUNTED TO FINISH CEILING
- 2'x4' LED EDGE FIT FIXTURE, MODEL: LSI, SFP24 5601K LUMENS - 45 WATTS MAX OR EQUAL
- E EMERGENCY EXIT LIGHT, - WHERE THERE ARE TWO OR MORE EXITS, AN EXIT SIGN WITH INTEGRAL EMERGENCY LIGHTING W/MINIMUM 90-MINUTE BATTERY BACK-UP IS REQUIRED.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

MMM
(20) BUILDINGS

MANUFACTURER PROFESSIONAL OF RECORD

LICENSED ARCHITECT
ROBERT PATRICK DUNLAVEY
No. C12631
Ren 3-31-25
STATE OF CALIFORNIA

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

REVISIONS

DRAWN BY:	AA
SCALE:	AS NOTED
DATE:	06/07/2023
PROJECT NO:	1791-23

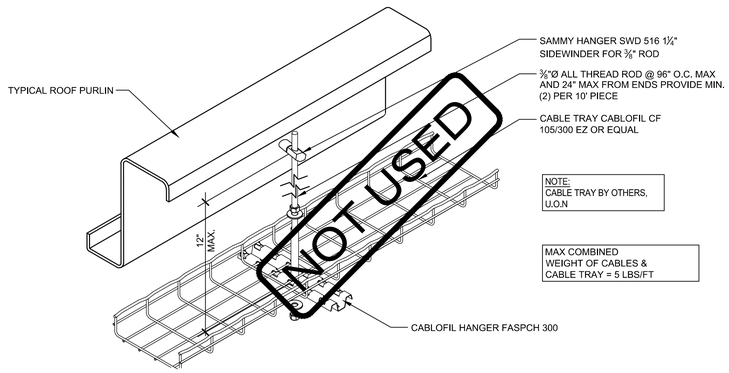
SHEET TITLE:

TYPICAL
ELECTRICAL PLAN

SHEET NUMBER:

E1.0B

03-XXXX_[draft-dwh]-[SolarZone]-[Bldg-Qty]-[Bldg-SF]-[20231031-0]-AM_PLOTTED:[10/31/2023 8:08 AM]-[PLOTTED BY:[dwh]]-[C:\Projects\[2023-03-XXXX]\[Drawings]\[Arch]\[03-XXXX_[draft-dwh]-[SolarZone]-[Bldg-Qty]-[Bldg-SF]-[20231031-0].rvt]

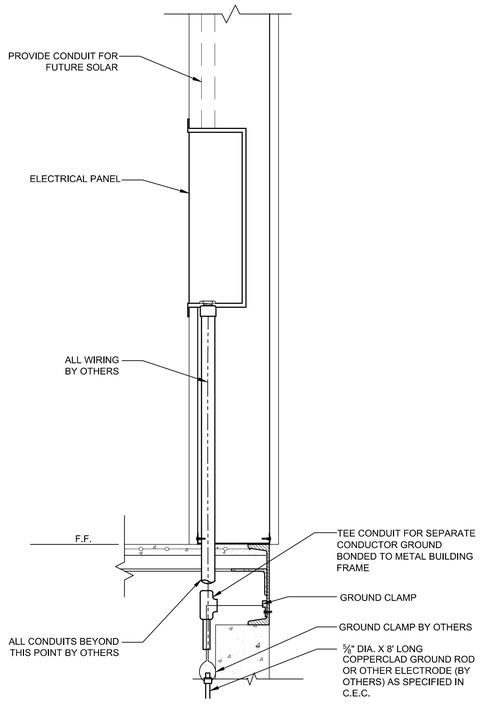


CABLE TRAY DETAIL

SCALE: N.T.S. | 1

NOT USED

2



1. SIZE OF CONDUCTORS SHALL COMPLY w/CEC.A
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL & METAL BUILDING FRAME (CEC). IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10' INTO THE SOIL IF AVAILABLE (CEC).
3. ELECTRICAL BOND MODULES TOGETHER W/#8 CU @ MODLINE. BY MANUFACTURER. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS (CEC) AS REQUIRED. GROUNDING DETAIL PER DSA IR E-1. INSPECTOR TO WITNESS GROUNDING TEST.

ELECTRICAL PANEL CONNECTION DETAIL - UNDERFLOOR OPTION

SCALE: 1-1/2" = 1' - 0" | 3

VOLTS:120/240 SINGLE PHASE | PANEL: "EP-A" | FEED: EXTERIOR
MAIN: 100 AMP MAIN BKR. | LOCATION: INTERIOR | MOUNTING: RECESS

LOAD	WATTS A	WATTS B	BRK. AMP	P	CKT A	CKT B	CKT	BRK. AMP	P	WATTS A	WATTS B	LOAD
LIGHTS	360		20	1	1		2	80	2	7680		HVAC
EXTERIOR LIGHTS		100	20	1	3		4				7680	HVAC
EMERG. EXIT LIGHTS	100		20	1	5		6					SPACE
CLOCK		100	20	1	7		8					FUTURE SOLAR*
RECEPTS	1080		20	1	9		10					
RECEPTS		720	20	1	11		12					
GFI RECEPTS	180		20	1	13		14					
SPARE					15		16					
					17		18					
					19		20					
					21		22					
					23		24					
					25		26					
					27		28					
					29		30					
PHASE WATTAGE	1720	920								7680	7680	PHASE WATTAGE
TOTAL WATTS "A" LEG = 9400			TOTAL WATTS A+B= 18000							TOTAL WATTS "B" LEG = 8600		
TOTAL WATTS = 18000			75 AMPS		120/240V					SINGLE PHASE		125 AMP BUS.

FEEDERS: 3-#2 & 1-#8 CU. TO BE RUN BY THE DISTRICT EITHER UNDERGROUND OR OVERHEAD, SEE SITE ELEC. PLAN.

NOT USED

LOAD PANEL CALCULATIONS

NOTES:
FIRE ALARM DEDICATED CIRCUIT SHALL BE IDENTIFIED WITH A RED MARKED DISCONNECT WITH LOCK-ON CAPABILITY (NFPA 72 10.6.5.2)

* PROVIDE CONDUIT OUT OF PANEL FOR FUTURE SOLAR.

FIRE ALARM SYSTEM

1. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE, CALIFORNIA FIRE CODE AND THE CALIFORNIA BUILDING CODE.
2. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTINGS FOR EACH COMPONENT OF THE SYSTEM, HAVE BEEN APPROVED BY DSA.
3. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCY.
4. JUNCTION BOXES - GALVANIZED SHEET METAL, SQUARE OR RECTANGULAR WITH BLANK COVERS. LOCATE ONE BOX AT REAR OF BUILDING NEAR MAIN ELECTRICAL PANEL @ +18" ABOVE FINISH FLOOR FOR FUTURE CONNECTION.
5. COVERS - INSTALL GASKETED, METAL, WATERPROOF, FINISH COVERS AT EXTERIOR LOCATIONS. INSTALL FINISH COVERS AT INTERIOR LOCATIONS.
6. THE AUTOMATIC ALARM SYSTEM SHALL BE INSTALLED, TESTED, AND MAINTAINED IN ACCORDANCE WITH THE STATE FIRE MARSHALL'S REGULATIONS (CBC SEC. 907.2.3) AND THE 2016 EDITION OF NFPA 72.
7. THE LOCATION OF AUTOMATIC DETECTORS, MANUAL STATIONS AND OTHER FIRE ALARM EQUIPMENT AND DEVICES, AS SHOWN ON PLAN, ARE FOR REFERENCE ONLY AND DO NOT CONSTITUTE SHOP DRAWINGS WHICH ARE REQUIRED FOR REVIEW AND APPROVAL.
8. ALARM-INDICATING DEVICES OF A FIRE ALARM SYSTEM INTENDED TO ALERT ALL OCCUPANTS SHALL CAUSE A LEVEL OF AUDIBILITY OF NOT LESS THAN 15 dBA ABOVE THE AVERAGE AMBIENT NOISE LEVELS OR 5dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS, WHICHEVER IS GREATER, MEASURED 5' ABOVE THE FLOOR. AMBIENT NOISE LEVELS MEANS THE LEVEL WHICH CAN NORMALLY BE EXPECTED WHEN THE FACILITY, BUILDING, ROOM, OR AREA IS FUNCTIONING UNDER NORMAL OPERATING OR WORKING CONDITIONS (NFPA 72, SEC. 18.4.1).
9. THE ALARM SYSTEM SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED, FLASHING VISUAL WARNINGS SHALL HAVE A FLASH RATE NOT EXCEEDING TWO FLASHES PER SECOND (2 HZ), NOR BE LESS THAN ONE FLASH EVERY SECOND (1 HZ). STROBE SIGNALING DEVICES FOR THE HEARING IMPAIRED SHALL BE STATE FIRE MARSHALL APPROVED AND LISTED (NFPA 72, SEC. 18.5.3).
10. AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 CHAPTER 26 AS AMENDED BY ARTICLE 91. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER. IF TESTING RESULTS DETERMINE FIRE ALARM AUDIBILITY DOES NOT MEET 15db OVER AMBIENT NOISE LEVELS, ADDITIONAL FIRE ALARM SIGNALING DEVICES MAY BE REQUIRED BY THE ENFORCING AGENCY.

GENERAL NOTES

1. GROUNDING ELECTRODE CONDUCTOR SIZED PER CEC.
2. PROVIDE BONDS TO BLDG. STEEL & PANEL (#8 CU)
3. PANEL TO LISTED FOR USE AS SERVICE EQUIPMENT.
4. ALL PANELS, SWITCHES, DISCONNECTS, BREAKERS, METERS, AND OTHER ELECTRICAL ELEMENTS SHALL BE PLACED ABOVE THE ELEVATION REQUIRED BY ASCE 24-14, SECTION 7.2.

FIXTURE NOTES:

1. ALL FLUORESCENT LIGHT FIXTURES SHALL HAVE ENERGY SAVING LAMPS AND BALLASTS.
2. LUMINARIES/BALLASTS SHALL BE CERTIFIED PER CALIFORNIA BUILDING CODE, TITLE 24.
3. FLUORESCENT LIGHT FIXTURE TYPE "A" SHALL BE CONTROLLED TO PROVIDE TWO LEVELS OF LIGHTING. SWITCH (SA) SHALL CONTROL THE TWO OUTER LAMPS AND SWITCH (SB) SHALL CONTROL THE TWO INNER LAMPS.
4. ELECTRICAL SERVICE DROP AND CONNECTIONS SUPPLIED BY OTHERS.
5. MANUFACTURER TO PROVIDE STUB-OUT FROM BACK OF ELECTRICAL PANEL THROUGH THE EXTERIOR WALL OR TO BELOW FLOOR FOR RECEIVING EITHER UNDERGROUND OR OVERHEAD SERVICE & FITTING FOR GROUNDING CABLE.
6. ELECTRICAL PANEL BOARD SHALL BE RECESS MOUNTED INSIDE THE BUILDING, SIZED TO ACCOMMODATE ALL CONNECTED LOADS INCLUDING SPACES AS SHOWN. OVERCURRENT PROTECTIVE DEVICES IN THE PANEL BOARDS SHALL HAVE ADEQUATE SHORT CIRCUIT INTERRUPTING CAPACITY. ALL BUSES INCLUDING BUS SHALL BE COPPER OR ALUMINUM.
7. 2X4 FLUORESCENT FIXTURES SHALL HAVE A STEEL FRAME, LENS SHALL BE HINGED AND LOCKED IN PLACE BY TWO LOCKING DEVICES. THE LENS DIFFUSERS SHALL BE KHS, INC. #KSH-2, CAROLITE, INC. #C-12 OR PLASKOLITE, INC. #PL21A. MINIMUM LENS THICKNESS SHALL BE 0.125 INCHES.
8. FLUORESCENT BALLAST SHALL BE ENERGY SAVER WHILE MAINTAINING FULL LIGHT OUTPUT, CLASS "P" EQUIPPED WITH THERMAL PROTECTORS, GUARANTEED AGAINST FAILURE FOR (2) YEARS AND BE REPLACEABLE FROM INSIDE THE FIXTURE.
9. CLOCK - 12" DIAL CLOCK ON CLOCK OUTLET.
   A. CLOCK SHALL BE GENERAL ELECTRIC MODEL 2912 129V 60 CYCLE
   B. CLOCK OUTLET SHALL BE BRYANT #2828 OR EQUAL WITH SEPARABLE HANGING CLIP & APPD RECEPT. THE H.V.A.C. UNIT FEEDER CIRCUIT - PANEL CIRCUIT BREAKER, FEEDER WIRE, UNIT DISCONNECT AND FUSES (WHERE USED) - IS TO BE COORDINATED WITH THE NAME PLATE DATA AT THE TIME OF MANUFACTURE. H.V.A.C. UNITS HAVING KVA RATINGS LARGER THAN THAT INDICATED ON THIS PANEL SCHEDULE WILL NOT BE ALLOWED TO BE INSTALLED ON THIS BUILDING.
   C. IF 60 DEGREES WIRE IS TO BE USED IN THIS INSTALLATION, CALCULATIONS DEMONSTRATING AMPACITY SHALL BE PROVIDED ON THE DRAWING.

GENERAL NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME
24' x 40' THRU 48' x 40'
(HIGH SEISMIC)
2GO®

SITE SPECIFIC PROJECT NAME
.
.
.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
PATRICK G. [illegible]
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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

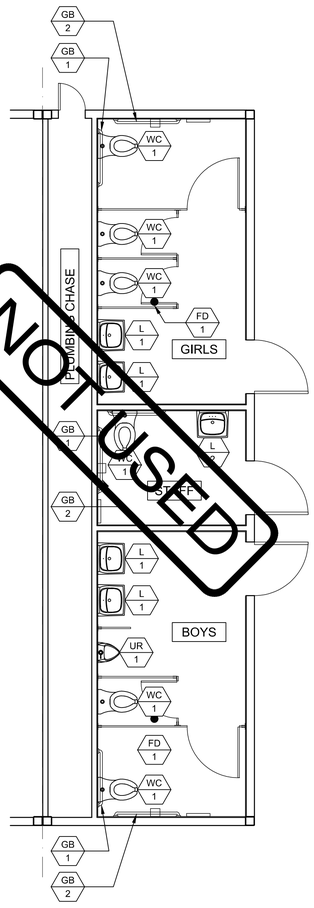
REVISIONS
1
2
3
4

DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

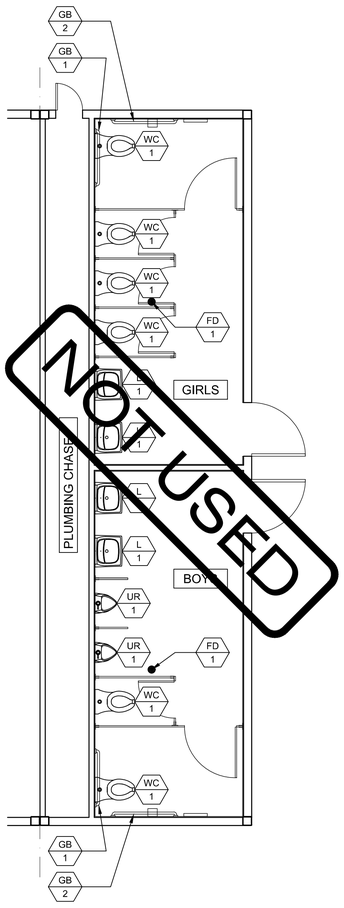
SHEET TITLE:
ELECTRICAL NOTES & DETAILS

SHEET NUMBER:
E1.2

S:\XXXX-21\Arch\DWG\Plot Files\E1.2.dwg 9/20/2021 3:50:23 PM PLOTTED BY ADS/AH



BOYS, GIRLS & STAFF R.R. PLAN SCALE: 1/4" = 1'-0" | 1

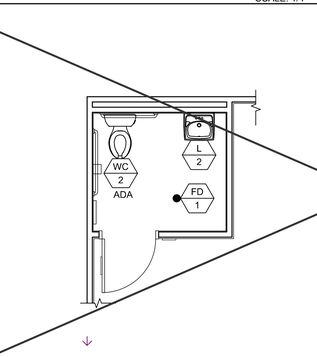


BOYS & GIRLS R.R. PLAN SCALE: 1/4" = 1'-0" | 2

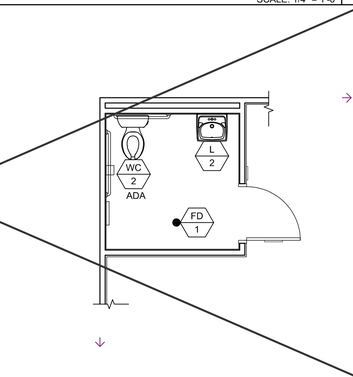
MARK	FIXTURE[1]	TYPE AT KINDERGARTEN (AGES 3-4)	TYPE AT ELEMENTARY (AGES 5-8)	TYPE AT MIDDLE SCHOOL (AGES 9-12)	TYPE AT HIGH SCHOOL (AGES 13-ADULT)	REMARKS
WC 2 / 1 ADA	WATER CLOSET	CANNOT USE	WALL MOUNT TYPE KOHLER 'KINGSTON' MODEL K-4325 OR EQUAL. LOWEST AT 12" A.F.F. - FLOW RATE OF 1.28 G.P.F.	WALL MOUNT TYPE KOHLER 'KINGSTON' MODEL K-4325 OR EQUAL. LOWEST AT 15" A.F.F. - FLOW RATE OF 1.28 G.P.F.	WALL MOUNT TYPE KOHLER 'KINGSTON' MODEL K-4325 OR EQUAL. LOWEST AT 17" A.F.F. - FLOW RATE OF 1.28 G.P.F.	FLUSH VALVE ZURN MODEL Z6000AV-HET - 1.28 G.P.F OR EQUAL. LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0.
WC 2	WATER CLOSET	FLOOR MOUNT TANK TYPE AMERICAN STANDARD #3128.001 FOR BOWL #4019.228 LEFT TANK #4019.828 RIGHT TANK	FLOOR MOUNT TANK TYPE AMERICAN STANDARD w/2.2050T SEAT (2" THICK) #3128.001 FOR BOWL #4019.228 LEFT TANK #4019.828 RIGHT TANK	FLOOR MOUNT TANK TYPE KOHLER 'WELLWORTH' MODEL K-3998 OR EQUAL	FLOOR MOUNT TANK TYPE KOHLER 'WELLWORTH' MODEL K-3999 OR EQUAL ADA COMPLIANT	WC/2 FIXTURE MAX FLOW RATE OF 1.28 G.P.F - LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0
WC 3 OPTIONAL ADA	WATER CLOSET	FLOOR MOUNT FLUSH VALVE TYPE KOHLER 'PRIMARY' MODEL K-96064 OR EQUAL. FLOW RATE OF 1.28 G.P.F.	FLOOR MOUNT FLUSH VALVE TYPE KOHLER 'JUVENILE ULTRA' MODEL K-96059 OR EQUAL - FLOW RATE OF 1.28 G.P.F.	FLOOR MOUNT FLUSH VALVE TYPE KOHLER 'WELLCOMME ULTRA' MODEL K-96053 OR EQUAL - FLOW RATE OF 1.28 G.P.F.	FLOOR MOUNT FLUSH VALVE TYPE KOHLER 'HIGHCLIFF ULTRA' MODEL K-96057 OR EQUAL - FLOW RATE OF 1.28 G.P.F.	FLUSH VALVE ZURN MODEL Z6000AV-HET - 1.28 G.P.F OR EQUAL. LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0.
L 1	BOYS/GIRLS LAVATORY	KOHLER 'KINGSTON' MODEL K-2007-0				BOY/GIRL RESTROOM - ZURN MODEL 86100-XL-3M - COLD WATER ONLY - SINGLE SPOUT MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0 - FLOW RATE OF 0.5 G.P.M. METER FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MIN.
L 2	ADULT LAVATORY	KOHLER 'KINGSTON' MODEL K-2005-0				ADULT RESTROOM - ZURN MODEL Z7440-XL-FC HOT/COLD WATER - 4" ON CENTER HOLE. MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0 - FLOW RATE OF 0.5 G.P.M.
UR 1	URINAL	~~WALL MOUNT TYPE KOHLER MODEL DEXTER K-5452-ET-0 OR EQUAL FLOW RATE = 0.125 gpf~~				~~FLUSH VALVE ZURN MODEL Z6003-ULF (0.125gpf) OR EQUAL. MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0~~
M 1	MIRROR	WALL MOUNT TYPE BOBRICK MODEL B165 18X30 OR EQUAL				MOUNT AS SPECIFIED IN FLOOR PLANS. MOUNT ACCESSIBLE MIRROR PER SCHEDULE 10/P2.0
GB 1	36" GRAB BARS	WALL MOUNT TYPE CREATIVE SPECIALTIES INTERNATIONAL MODEL 8736 & 8748 (1 1/4" CONCEALED SCREW 36"& 48") OR EQUAL				18 GA. 304 STAINLESS STEEL SATIN FINISH MOUNT AS SPECIFIED IN FLOOR PLANS AND PER SCHEDULE 10/P2.0. (STRUCTURAL STRENGTH OF GRAB BARS 250# MIN.)
GB 2	48" GRAB BARS					
WH 1	WATER HEATER	~~RHEEM 20 GALLON ELECTRIC WATER HEATER MODEL PROE20-1-RH-POU 240 VOLT SINGLE PHASE~~				~~AVAILABLE IN 6, 10, 20 AND 30 GALLON MODELS (MAX WATER HEATER WEIGHT) PER 6/M1.4 OR 1/P.20~~
TWH 1	INSTANT-TEMP WATER HEATER	CHRONOMITE INSTANT-TEMP WATER HEATER MODEL M20L/240 INSTANT SINGLE PHASE 104"				CHRONOMITE MODEL M20L/208 OR EQUAL SEE DETAIL 7/P2.0
FS 1	CUSTODIAN SINK	FLORESTONE FLOOR SINK MOLDED MOP RECEPTORS MODEL MSR-2424 W/ 3" DRAIN OR EQUAL				ZURN 843-MI-RC OR EQUAL
ULS 1	UTILITY SINK	WALL MOUNT TYPE FLORESTONE-FM OR EQUAL				CAITLIN CBK110CP OR EQUAL
FD 1	FLOOR DRAIN	WOOD FLOOR DRAIN SIOUIX CHIEF MODEL MODEL 822-2DNRV OR EQUAL				LOCATE AS SPECIFIED ON FLOOR PLANS.
FD 2	FLOOR DRAIN	CONCRETE FLOOR DRAIN ZURN MODEL P415-CC W/ STANDARD GRATE ZURN 33160-002 OR EQUAL				LOCATE AS SPECIFIED ON FLOOR PLANS. (FLOOR DRAIN TO BE USED ON CONCRETE ONLY!)
CS 1	CLASSROOM SINK	ROC MODEL 25103 25X22 SINGLE BOWL SINK OR EQUAL				FAUCET - ZORN MODEL Z2871-LC-XL W/WRIST BLADES. LOCATE AS SPECIFIED ON FLOOR PLANS. MOUNT ACCESSIBLE FIXTURES PER SCHEDULE 10/P2.0
DF 1	DRINKING FOUNTAIN	ELKAY MODEL EDFP217C WALL MOUNT WATER FOUNTAIN OR EQUAL				
HB 1	HOSE BIBB	STANDARD HOSE BIBB ARROWHEAD MODEL 353LKLF OR EQUAL				LOCATE AS SPECIFIED ON FLOOR PLANS.

NOTES:
1. ALL WATER FIXTURES MUST MEET REQUIREMENTS OF CAL-GREEN TITLE 24, PART 11, SECTION 5.303.3 "WATER CONSERVING PLUMBING FIXTURES & FITTINGS".
2. FOR OPTIONAL ACCESSIBLE FLOOR-MOUNT WATER CLOSET, SEE PLUMBING SCHEDULE MARK WC/3 (NOT SHOWN ON PLAN).
3. NOT ALL ITEMS LISTED MAY OCCUR IN THIS PROJECT.

PLUMBING FIXTURE SCHEDULE



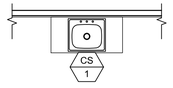
SINGLE TOILET PLAN
FRONT WALL APPROACH SCALE: 1/4" = 1'-0" | 6



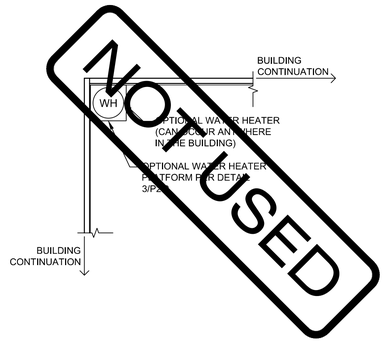
SINGLE TOILET PLAN
SIDE WALL APPROACH SCALE: 1/4" = 1'-0" | 7

A 1 = PLUMBING FIXTURE I.D. - SEE SCHEDULE ABOVE

SYMBOLS LEGEND



CLASSROOM SINK PLAN SCALE: 1/4" = 1'-0" | 8



OPTIONAL WATER HEATER SCALE: 1/4" = 1'-0" | 9

PLUMBING NOTE

MODULAR MFR. TO STUB THROUGH FLOOR ALL PLUMBING LINES. BUILDING PERIMETER POC'S SHOWN ARE FOR COORDINATION PURPOSES ONLY. ALL UNDER-FLOOR CONNECTIONS ARE BY SITE CONTRACTOR, U.O.N.

1. DIMENSIONS ARE TO FACE OF FINISH (F.O.F.) UNLESS NOTED OTHERWISE (i.e. F.O.C., ℄)
2. RESTROOM CONFIGURATION MAY VARY PER BUILDING CONFIGURATION.
3. RESTROOM MODULE OCCURS ONLY AT END OF BUILDING. SINGLE RESTROOMS MAY OCCUR IN ANY PART OF A BUILDING.
4. RESTROOM MODULE CANNOT STAND ALONE AND SHALL BE ASSEMBLED TOGETHER WITH AT LEAST ONE OTHER 12'x40' MODULE.
5. INTERIOR WALLS MAY OCCUR THROUGHOUT BUILDING. REFER TO SHEET S8.1 OR S9.1 FOR ATTACHMENTS.
6. REFER TO SCHEDULE 10/P2.0 FOR ACCESSIBLE HEIGHTS AT TOILETS.
7. REFER TO DETAILS 1, 3, & 4, SHEET A7.1 FOR TOILET PARTITION ANCHORAGE BLOCKING.
8. SEWER AND WATER STUB OUTS SHALL BE LOCATED WITHIN THE ALLOWABLE AREA AS SHOWN ON FLOOR PLAN AND CONNECTIONS SHALL BE EASILY ACCESSIBLE FOR FUTURE RELOCATION. STUB OUT HEIGHT SHALL BE COORDINATED BY THE MANUFACTURER.
9. PIPING MATERIAL
   a. WATER: COPPER TYPE "L", 95/5 SOLDER.
   b. WASTE DRAIN AND VENT: ABS.

GENERAL NOTES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME
24' x 40' THRU 48' x 40'
(HIGH SEISMIC)
2GO®

SITE SPECIFIC PROJECT NAME
.
.
.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
REGINALD PATRICK CRUMLEY
No. C12631
Ren. 3-31-23
STATE OF CALIFORNIA

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

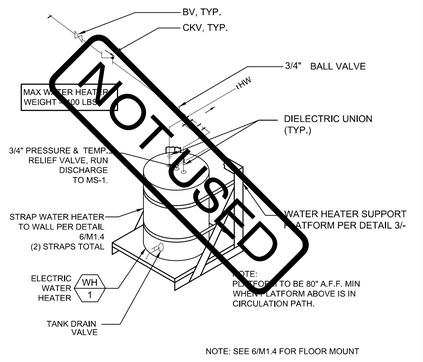
REVISIONS
1
2
3
4

DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

SHEET TITLE:
RESTROOM OPTIONS
PLUMBING PLANS
& FIXTURE SCHEDULE

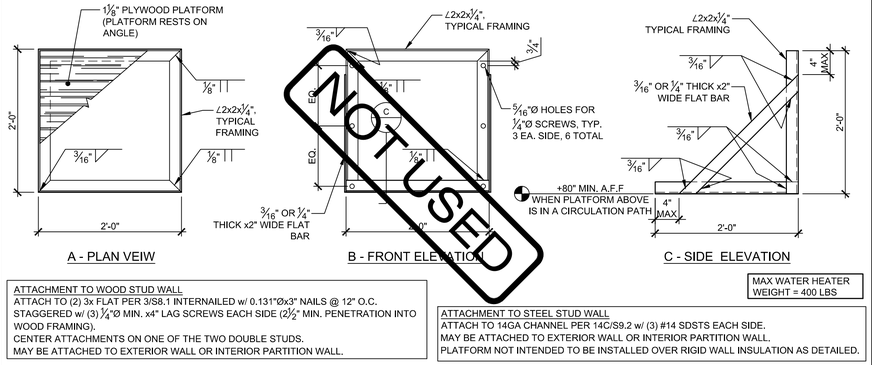
SHEET NUMBER:
P1.0

01XXXXX 2nd-Gen/R1B/Multi-Site-SB/SB/SB/SB/SB_ARCHIVED/SB/SB/SB/SB



NOTE: SEE 6/M1.4 FOR FLOOR MOUNT

WATER HEATER SUPPORT DETAIL — NOT TO SCALE — 1



ATTACHMENT TO WOOD STUD WALL
ATTACH TO (2) 3x FLAT PER 3/S8.1 INTERNAILED w/ 0.131"Øx3" NAILS @ 12" O.C. STAGGERED w/ (3) ¾"Ø MIN. x4" LAG SCREWS EACH SIDE (2½" MIN. PENETRATION INTO WOOD FRAMING).
CENTER ATTACHMENTS ON ONE OF THE TWO DOUBLE STUDS.
MAY BE ATTACHED TO EXTERIOR WALL OR INTERIOR PARTITION WALL.

ATTACHMENT TO STEEL STUD WALL
ATTACH TO 14GA CHANNEL PER 14C/S9.2 w/ (3) #14 SDSTS EACH SIDE.
MAY BE ATTACHED TO EXTERIOR WALL OR INTERIOR PARTITION WALL.
PLATFORM NOT INTENDED TO BE INSTALLED OVER RIGID WALL INSULATION AS DETAILED.

MAX WATER HEATER WEIGHT = 400 LBS

WATER HEATER PLATFORM DETAIL — NOT TO SCALE — 3

HEIGHTS FOR ACCESSIBLE FEATURES IN TOILET FACILITIES

	FIXTURE & MEASUREMENT POINT	PRIMARY USERS				NOTES
		AGES 3-4	AGES 5-8	AGES 9-12	AGES 13 -ADULT	
A	TOILET, CENTERLINE FROM FACE OF WALL	12" SUGGESTED	12" TO 15" SUGGESTED	15" TO 18" SUGGESTED	17" MIN. TO 18" MAX.	
B	TOILET, TOP OF SEAT HEIGHT	11" TO 12" SUGGESTED	12" TO 15" SUGGESTED	15" TO 17" SUGGESTED	17" MIN. TO 19" MAX.	
C	TOILET, TOP OF FLUSH CONTROLS	36" MAX.	36" MAX.	36" MAX.	44" MAX.	FLUSH CONTROLS SHALL BE LOCATED ON OPEN SIDE OF TOILET.
D	GRAB BAR, TOP OF BAR	18" TO 20" SUGGESTED	20" TO 25" SUGGESTED	25" TO 27" SUGGESTED	33" MIN. TO 36" MAX.	
E	TOILET PAPER DISPENSER, HEIGHT TO OUTLET	14" SUGGESTED	14" TO 17" SUGGESTED	17" TO 19" SUGGESTED	19" MIN.	CENTERLINE OF DISPENSER OUTLET SHALL BE BETWEEN 7" TO 9" IN FRONT OF THE TOILET. OUTLET OF DISPENSER MUST BE BELOW GRAB BAR. DISPENSER (INCLUDING FULL TOILET PAPER ROLL) MUST NOT ENCROACH INTO REQ'D GRAB BAR CLEARANCE.
F	TOILET SEAT COVER, HEIGHT TO TOP OF OUTLET	24" TO 32" SUGGESTED	30" TO 32" SUGGESTED	32" TO 36" SUGGESTED	40" MAX.	
G	URINAL, LIP HEIGHT	12" TO 13" SUGGESTED	13" TO 15" SUGGESTED	15" TO 17" SUGGESTED	17" MAX.	
H	URINAL, HEIGHT OF FLUSH HANDLE	36" MAX.	36" MAX.	36" MAX.	44" MAX.	
I	LAVATORY, HEIGHT TO HIGHEST POINT AT FRONT OF LAV. OR COUNTER	24" TO 28" SUGGESTED	31" MAX.	31" MAX.	34" MAX.	
J	LAVATORY, VERTICAL KNEE CLEARANCE		24" MIN.	24" MIN.	29"-27" OVER THE 8" DEPTH SHOWN	29" MIN TO BOTTOM FRONT EDGE OF LAV; 27" MIN @ 8" DEEP
K	MIRROR (ABOVE LAVATORY OR COUNTERTOP), LOWEST POINT OF REFLECTIVE SURFACE	24" TO 32" SUGGESTED	30" TO 32" SUGGESTED	32" TO 36" SUGGESTED	40" MAX.	MIRROR NOT LOCATED ABOVE LAVATORY OR COUNTERTOP SHALL BE MOUNTED SO THAT LOWEST EDGE OF REFLECTING SURFACE IS 35" MAX. ABOVE FINISH FLOOR.
L	DISPENSERS, DRYERS, HEIGHT TO TOP OF OUTLET, HANDLE OR OPERATING MECHANISM (WHICHEVER IS HIGHEST)	24" TO 32" SUGGESTED	30" TO 32" SUGGESTED	32" TO 36" SUGGESTED	40" MAX	ACCESSORIES SHALL COMPLY WITH 11B-307.2
M	LO DRINKING FOUNTAIN, HEIGHT TO BUBBLER	24" TO 30" * SUGGESTED	30" TO 32" * SUGGESTED	32" TO 36" SUGGESTED	36" MAX.	KNEE CLEARANCE 27" H. AT 8" DEEP IS REQ'D IF HIGHER THAN 30" A.F.F.
N	HI DRINKING FOUNTAIN, HEIGHT TO BUBBLER	same as ADULT	same as ADULT	same as ADULT	38" MIN. TO 43" MAX.	

NOTES:
1. THIS TABLE AND RELATED DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF CALIF. TITLE 24 (2019 C.B.C. SECTION 11B-601) AND IS SHOWN HERE ONLY AS AN AID FOR CONSTRUCTION AND INSTALLATION.
2. ACCESSORIES ARE NOT IN MANUFACTURER'S SCOPE OF WORK.
3. DIMENSIONS GIVEN ARE FROM FACE OF FINISH, UNLESS OTHERWISE NOTED.
4. NOT ALL ITEMS LISTED MAY OCCUR IN THE PROJECT.
5. HEIGHTS CHOSEN FOR CHILDREN'S WATER CLOSETS & ACCESSORIES D & E SHALL BE CONSISTENTLY APPLIED FOR THE AGE GROUP.

M* WHERE A D.F. FOR CHILDREN IS MOUNTED MAXIMUM 30" A.F.F., THE SPOUT SHALL BE MAXIMUM 3-1/2" FROM THE FRONT EDGE OF THE UNIT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

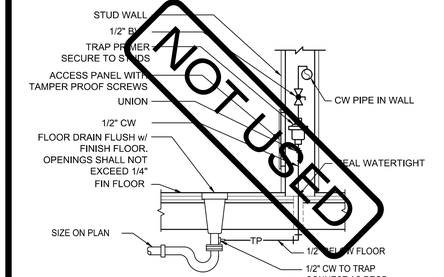
INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

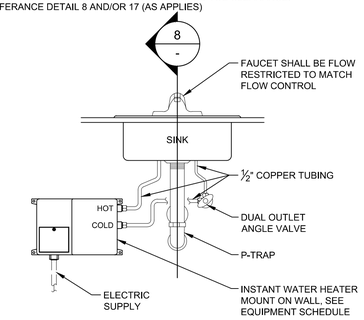
2GO®

SITE SPECIFIC PROJECT NAME



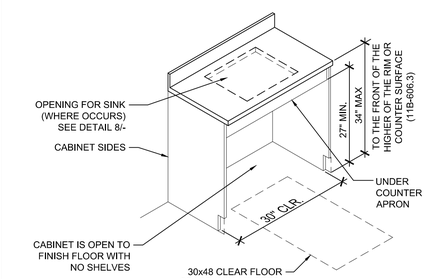
TRAP PRIMER DETAIL — NOT TO SCALE — 6

NOTE:
INSULATE WATER SUPPLY AND DRAIN PIPING AT ACCESSIBLE SINKS OR LAVS WITH "TRUEBRO® LAV GUARD 2" OR "TRUEBRO® SOFT GUARD PLUS" SHIELDS
IWH SHALL NOT BE LOCATED IN THE REQUIRED TOE CLEARANCE.
REFERANCE DETAIL 8 AND/OR 17 (AS APPLIES)

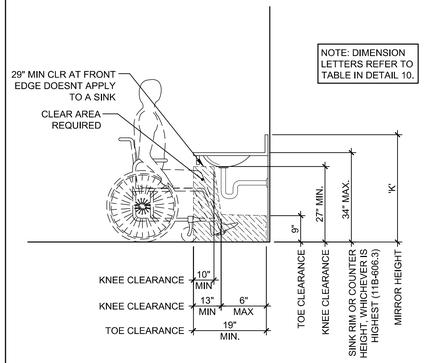


INSTANT WATER HEATER DETAIL — NOT TO SCALE — 7

NOTES:
1. MODIFY BASE AS SHOWN FOR ADULT WHEELCHAIR ACCESS.
2. CABINET IS FOR ADULT USE ONLY.
3. ALL EXTERIOR SURFACES TO BE PLASTIC LAMINATE.
4. CABINET DOORS ARE NOT ALLOWED @ SINKS.



ACCESSIBLE CLASSROOM SINK — NOT TO SCALE — 8



ACCESSIBLE HEIGHTS TABLE — 10

1. DWV PIPING SHALL BE ABS PLASTIC
2. COLD WATER SUPPLY SHALL BE TYPE L COPPER
3. MIN SLOPE 1/4" PER FOOT MAY SLOPE 4" CI AT 1/8" PER FOOT VENTS SHALL TERMINATE NOT LESS THAN 10 FEET FROM OR AT LEAST 3 FT. ABOVE ANY WINDOW, DOOR, AIR INTAKE OR VENT SHAFT, NOR LESS THAN 3FT. IN EVERY DIRECTION FROM ANY LOT LINE; ALLEY AND STREET EXCEPTED; EXTEND 6" ABOVE THE ROOF

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021
2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

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

REVISIONS

DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

SHEET TITLE:

PLUMBING DETAILS
&
ACCESSIBLE DETAILS

SHEET NUMBER:

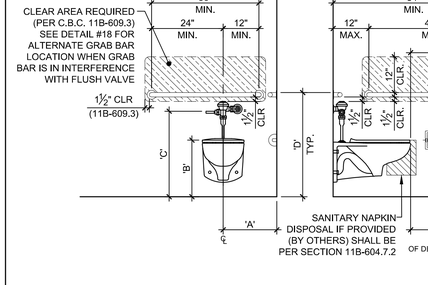
P2.0

NOTE: DIMENSION LETTERS REFER TO TABLE IN DETAIL 10.

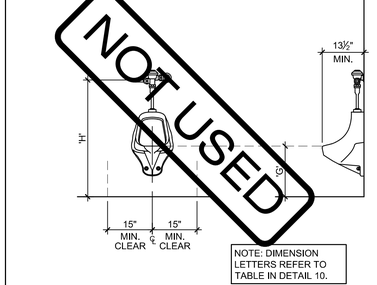
HI-LO DRINKING FOUNTAIN — NOT TO SCALE — 11

NOTES: DIMENSION LETTERS REFER TO TABLE IN DETAIL 10.

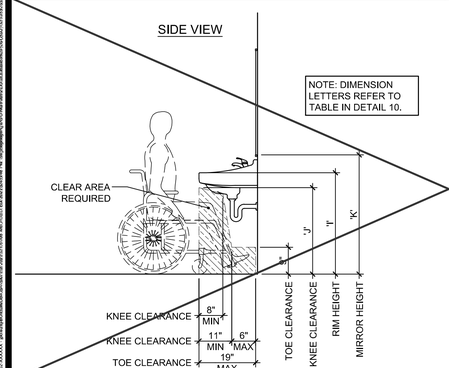
ACCESSIBLE CABINET DETAIL — NOT TO SCALE — 12



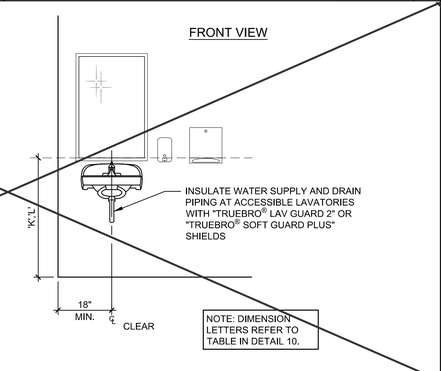
ACCESSIBLE TOILET AND ACCESSORIES — SCALE: 1/2" = 1'-0" — 14



ACCESSIBLE URINAL — SCALE: 1/2" = 1'-0" — 15



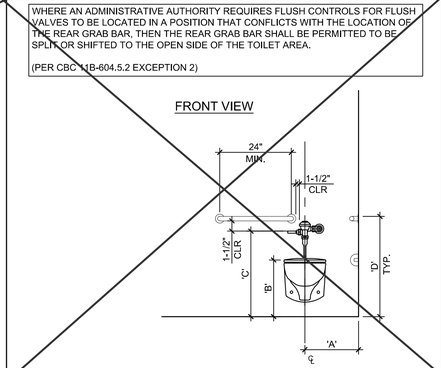
LAVATORY & ACCESSORIES — SCALE: 1/2" = 1'-0" — 17



REAR WALL GRAB BAR SHIFT — SCALE: 1/2" = 1'-0" — 18

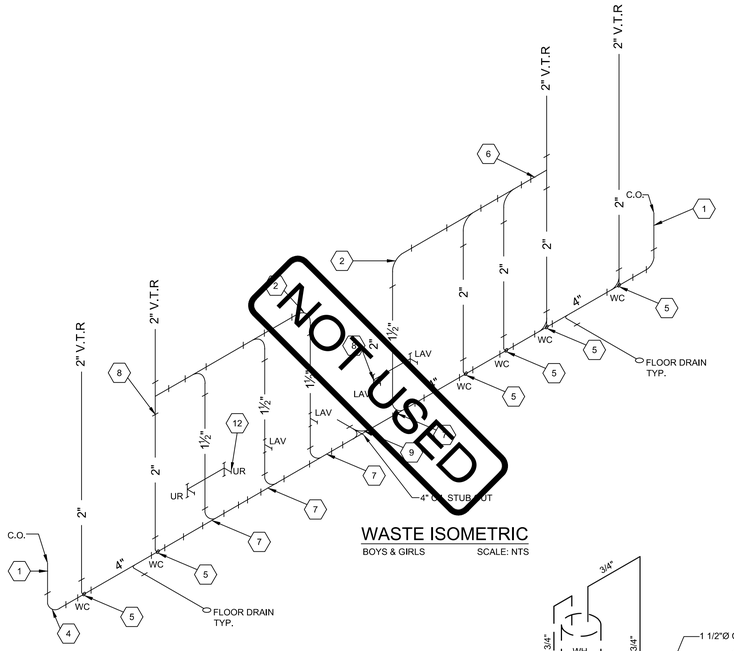
WHERE AN ADMINISTRATIVE AUTHORITY REQUIRES FLUSH CONTROLS FOR FLUSH VALVES TO BE LOCATED IN A POSITION THAT CONFLICTS WITH THE LOCATION OF THE REAR GRAB BAR, THEN THE REAR GRAB BAR SHALL BE PERMITTED TO BE SPLIT OR SHIFTED TO THE OPEN SIDE OF THE TOILET AREA.

(PER CBC 11B-604.5.2 EXCEPTION 2)

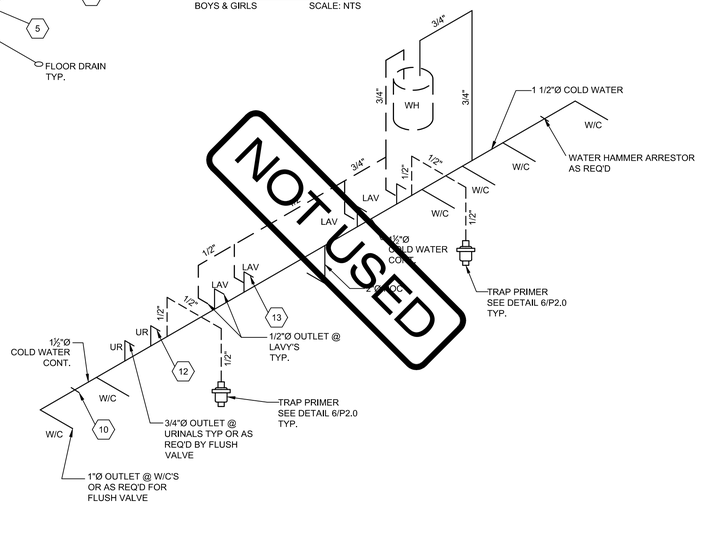


DETAIL — 19

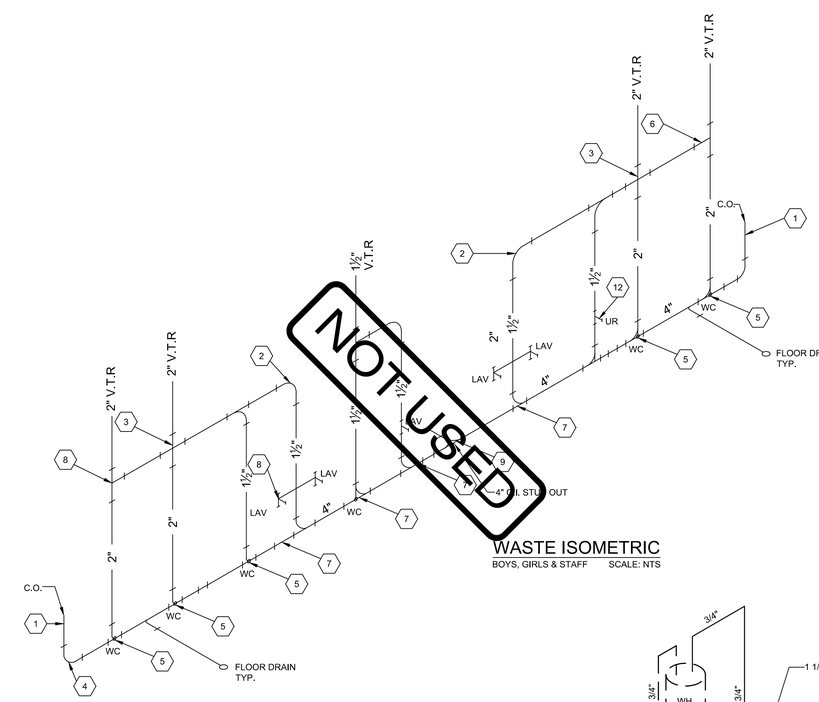
PLUMBING NOTES — 20



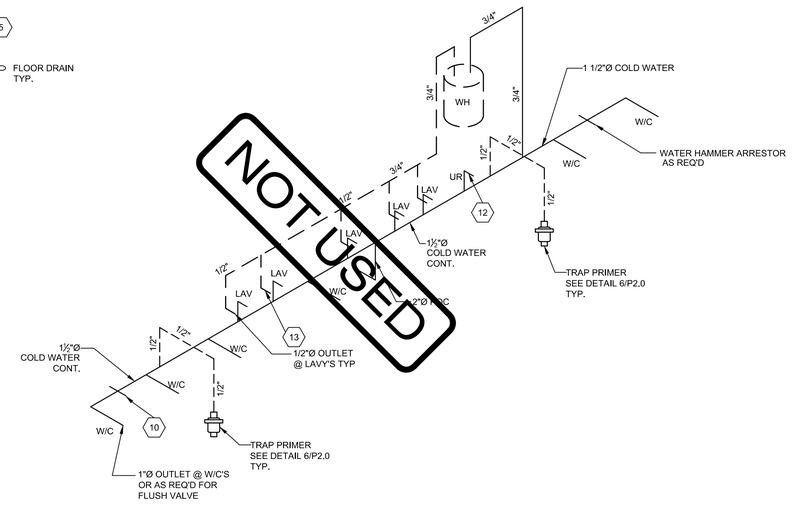
WASTE ISOMETRIC
BOYS & GIRLS SCALE: NTS



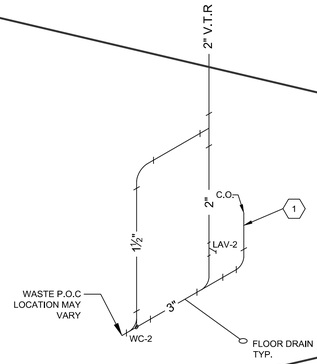
WATER SUPPLY ISOMETRIC
BOYS & GIRLS SCALE: NTS



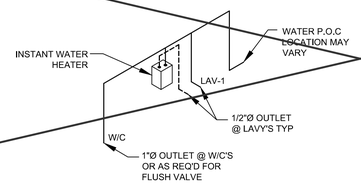
WASTE ISOMETRIC
BOYS, GIRLS & STAFF SCALE: NTS



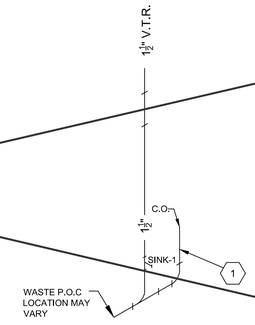
WATER SUPPLY ISOMETRIC
BOYS, GIRLS & STAFF SCALE: NTS



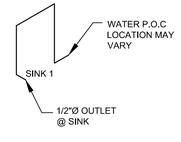
WASTE ISOMETRIC
SINGLE TOILET OPTION SCALE: NTS



WATER SUPPLY ISOMETRIC
SINGLE TOILET OPTION SCALE: NTS



WASTE ISOMETRIC
CLASSROOM SINK OPTION SCALE:NTS



WATER SUPPLY ISOMETRIC
CLASSROOM SINK OPTION SCALE: NTS

KEY NOTES

1	4" CLEAN OUT
2	VENT 90
3	VENT CROSS
4	4" QUARTER BEND
5	SMITH#0600 CARRIER
6	2" SANITARY TAP TEE
7	4x4x2 COMBINATION WYE 1/8 BEND
8	2x2x1 1/2 SANITARY TEE
9	4" DOUBLE COMBINATION
10	2"x18" LONG CU AIR CHAMBER
11	1" CW STUB AT WATER CLOSETS
12	3/4" CW STUB AT URINALS
13	1/2 CW STUB AT LAVATORIES

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

American Modular Systems
787 Spreckels Ave., Manteca, CA 95336
Phone (209) 825-1921 Fax (209) 825-7018
www.americanmodular.com

INTELLECTUAL-PROPERTY & PROPRIETARY RIGHTS STATEMENT
COPYRIGHT © AMERICAN MODULAR SYSTEMS (AMS)
AMS OWNS ALL COPYRIGHT AND OTHER INTELLECTUAL-PROPERTY AND PROPRIETARY RIGHTS IN THESE DRAWINGS, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN. CERTAIN ELEMENTS SHOWN IN THESE DOCUMENTS ARE REGISTERED TRADEMARKS OF AMS. ALL PATENTABLE MATERIALS CONTAINED IN THESE DOCUMENTS AND ORIGINATING WITH AMS WILL REMAIN THE SOLE PROPERTY OF AMS. THESE DRAWING, SPECIFICATIONS, AND THE MATERIAL CONTAINED HEREIN MAY NOT BE REPRODUCED, TRANSMITTED, COPIED, DISTRIBUTED, MODIFIED, OR OTHERWISE DISPOSED OF (DIRECTLY OR INDIRECTLY) AND MAY NOT BE USED (IN WHOLE OR IN PART) TO ASSIST IN THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE CONSTRUCTION, DESIGN, OR OTHER MAKING OF, ANY BUILDINGS (MODULAR OR OTHERWISE), DRAWINGS, SPECIFICATIONS, PRINTS, APPARATUS, OR PARTS THEREOF, EXCEPT AS EXPRESSLY PERMITTED BY WRITTEN CONSENT OF, OR IN A WRITTEN AGREEMENT WITH, AMS. SUBMITTAL OR DISTRIBUTION TO MEET OFFICIAL REGULATORY REQUIREMENTS WILL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF AMS'S COPYRIGHT OR OTHER INTELLECTUAL-PROPERTY OR PROPRIETARY RIGHTS.

PRE-CHECKED SET NAME

24' x 40' THRU 48' x 40'
(HIGH SEISMIC)

2GO®

SITE SPECIFIC PROJECT NAME

.
.
.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-119283 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☑
DATE: 09/20/2021

2019 CBC PRE-CHECK (PC) DOCUMENT
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

MANUFACTURER PROFESSIONAL OF RECORD ON PC

LICENSED ARCHITECT
ANDREW PATRICK HOWARD
No. C12631
Ren. 8-31-23
STATE OF CALIFORNIA

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

REVISIONS

1	
2	
3	
4	

DRAWN BY:	ADS/AH
SCALE:	AS NOTED
DATE:	03/11/21
PROJECT NO:	XXXX-21

SHEET TITLE:

PLUMBING
ISOMETRICS DRAWINGS

SHEET NUMBER:

P3.0

D:\XXXX - [A-z]\[A-z]\Revit\Central\[A-z]_XXXX_Central.rvt 7/8/2021 8:57:23 PM PLOTTED BY: [A-z] [A-z]

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

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

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

Application Number: 04-122493	School Name: PC	School District: LA
DSA File Number:	Increment Number:	Date Created: 2023-09-01 16:36:29

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).
☐	e. Buckling restrained braces.	Test	LOR	Testing and special inspections in accordance with IR 22-4.

S/A2. HIGH-STRENGTH BOLTS:

	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents.	Periodic	SI	Table 1705A.2.1 Items 1a & 1b, 2202A.1; AISC 360-16 Section A3.3, J3.1, and N3.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9.
☐	b. Test high-strength bolts, nuts and washers.	Test	LOR	Table 1705A.2.1 Item 1c, 2213A.1; RCSC 2014 Section 7.2; DSA IR 17-8.
☐	c. Bearing-type ("snug tight") connections.	Periodic	SI	Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9.
☐	d. Pretensioned and slip-critical connections.	*	SI	Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. *"Continuous" or "Periodic" depends on the tightening method used.

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.

WELDING:

☐	1. Solid-clad and open-mesh fences, gates with maximum leaf span of 10', and gates with a maximum rolling section of 10' all having an apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates/fences are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
☐	2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the 'Exception' language in Section 1705A.2.1); fillet welds shall not be ground flush.
☐	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
☐	4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
☐	5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
☐	6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for sections S/A3, S/A4 and/or S/A5 located in the Steel/Aluminum category of listing above).
☐	7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <4000# and resulting composite center of mass (including component's center of mass) ≤4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.

Name of Architect or Engineer in general responsible charge:

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

Signature of Architect or Structural Engineer: Date:

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

DSA STAMP

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

PLOT DATE: November 1, 2023

ACCESSIBILITY TO PUBLIC BUILDING, PUBLIC ACCOMMODATIONS NOTES

TREADS, RISERS, AND NOSING: CBC SECTION 11B-504

1. INTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND LOWER TREAD MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST. EXTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND ALL TREADS MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST.
2. THE STRIPE SHALL BE A MINIMUM OF 2 INCHES WIDE TO A MAXIMUM OF 4 INCHES WIDE PLACED PARALLEL TO, AND NOT MORE THAN 1 INCH FROM, THE NOSE OF THE STEP OR UPPER APPROACH. THE STRIPE SHALL EXTEND THE FULL WIDTH OF THE STEP OR UPPER APPROACH AND SHALL BE OF MATERIAL THAT IS AT LEAST AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR. A PAINTED STRIPE SHALL BE ACCEPTABLE. GROOVES SHALL NOT BE USED TO SATISFY THIS REQUIREMENT.
3. THE RADIUS OF CURVATURE AT THE LEADING EDGE OF THE TREAD SHALL BE 1/2 INCH MAXIMUM. NOSINGS THAT PROJECT BEYOND RISERS SHALL HAVE THE UNDERSIDE OF THE LEADING EDGE CURVED OR BEVELED. RISERS SHALL BE PERMITTED TO SLOPE UNDER THE TREAD AT AN ANGLE OF 30 DEGREES MAXIMUM FROM VERTICAL. THE PERMITTED PROJECTION OF THE NOSING SHALL EXTEND 11/4 INCHES MAXIMUM OVER THE TREAD BELOW.
4. TREADS SHALL BE 11 INCHES DEEP MINIMUM. RISERS SHALL BE 4 INCHES HIGH MINIMUM AND 7 INCHES HIGH MAXIMUM. ALL STEPS ON A FLIGHT OF STAIRS SHALL HAVE UNIFORM RISER HEIGHTS AND UNIFORM TREAD DEPTHS. OPEN RISERS ARE NOT PERMITTED.

RAILING AND HANDRAILS: CBC SECTION 11B-505

1. TOP OF GRIPPING SURFACES OF HANDRAILS SHALL BE 34 INCHES MINIMUM AND 38 INCHES MAXIMUM VERTICALLY ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES. HANDRAILS SHALL BE AT A CONSISTENT HEIGHT ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES.
2. CLEARANCE BETWEEN HANDRAIL GRIPPING SURFACES AND ADJACENT SURFACES SHALL BE 1.5 INCHES MINIMUM. HANDRAILS MAY BE LOCATED IN A RECESS IF THE RECESS IS 3 INCHES MAXIMUM DEEP AND 18 INCHES MINIMUM CLEAR ABOVE THE TOP OF THE HANDRAIL.
3. HANDRAIL GRIPPING SURFACES SHALL BE CONTINUOUS ALONG THEIR LENGTH AND SHALL NOT BE OBSTRUCTED ALONG THEIR TOPS OR SIDES. THE BOTTOMS OF HANDRAIL GRIPPING SURFACES SHALL NOT BE OBSTRUCTED FOR MORE THAN 20 PERCENT OF THEIR LENGTH. WHERE PROVIDED, HORIZONTAL PROJECTIONS SHALL OCCUR 1.5 INCHES MINIMUM BELOW THE BOTTOM OF THE HANDRAIL GRIPPING SURFACE.
4. HANDRAIL GRIPPING SURFACES WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1.25 INCHES MINIMUM AND 2 INCHES MAXIMUM.
5. HANDRAIL GRIPPING SURFACES WITH A NON-CIRCULAR CROSS SECTION SHALL HAVE A PERIMETER DIMENSION OF 4 INCHES MINIMUM AND 61/4 INCHES MAXIMUM, AND A CROSS-SECTION DIMENSION OF 2.25 INCHES MAXIMUM.
6. HANDRAIL GRIPPING SURFACES AND ANY SURFACES ADJACENT TO THEM SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES.
7. HANDRAIL GRIPPING SURFACES SHALL EXTEND BEYOND AND IN THE SAME DIRECTION OF STAIR FLIGHTS AND RAMP RUNS IN ACCORDANCE WITH CBC SECTION 11B-505.10. EXTENSIONS SHALL NOT BE REQUIRED FOR CONTINUOUS HANDRAILS AT THE INSIDE TURN OF SWITCHBACK OR DOGLEG STAIRS AND RAMPS. THE ORIENTATION OF AT LEAST ONE HANDRAIL SHALL BE IN THE DIRECTION OF THE STAIR RUN, PERPENDICULAR TO THE DIRECTION OF THE STAIR NOSING, AND SHALL NOT REDUCE THE MINIMUM REQUIRED WIDTH OF THE STAIR. CBC SECTION 11B-505.2.1.
8. A 2" MINIMUM HIGH CURB OR BARRIER SHALL BE PROVIDED TO PREVENT THE PASSAGE OF A 4" DIAMETER SPHERE ROLLING OFF THE EDGES ON A RAMP OR LANDING SURFACE. SUCH A CURB OR BARRIER SHALL BE CONTINUOUS AND UNINTERRUPTED ALONG THE LENGTH OF A RAMP. CBC SECTION 11B-405.9.2.

RAMP, LANDING, STAIRS AND GROUND SURFACES: CBC SECTION 11B-302

1. RAMP, LANDING, STAIRS AND GROUND SURFACES SHALL BE STABLE, FIRM, AND SLIP RESISTANT AND SHALL COMPLY WITH 11B-302, CBC SECTION 11B-302.1.

LEGEND:

1. DETAIL REFERENCE BUBBLE
2. DETAIL REFERENCE BUBBLE W/ ARROW
3. SECTION REFERENCE BUBBLE
4. ELEVATION REFERENCE BUBBLE
5. INDICATES 1.25"x 1.25"x 12 GA. CROSS ANGLE BRACING W/ #12 SMS AT EACH END U.N.O.
6. INDICATES 1.25"x 1.25"x 12 GA. DIAGONAL ANGLE BRACING WITH MIN. (1) #12 SMS AT EACH END U.N.O.
7. INDICATES 2x10 P.T. D.F. #1 SILL PLATE
8. INDICATES PSA STAIR ADJUSTER LEG PAD
9. INDICATES 1" DIAMETER STANDARD (1.315"ø O.D.) SCHEDULE 40 GALVANIZED PIPE

ABBREVIATIONS:

AISA	AMERICAN IRON AND STEEL INSTITUTE	MAX.	MAXIMUM
		NTS	NOT TO SCALE
ALT	ALTERNATIVE	O.C.	ON CENTER
ASSY.	ASSEMBLY	EXTEN.	OPPOSITE
ATR	ALL THREADED ROD	PH	PAN HEAD
BTW.	BETWEEN	P.T.	PRESSURE TREATED
CBC	CALIFORNIA BUILDING CODE	PH	PAN HEAD
CFS	COLD FORMED STEEL	RECT.	RECTANGLE
DN	DOWN	S.E.O.R.	STRUCTURAL ENGINEER OF RECORD
EA.	EACH	S.S	STAINLESS STEEL
EXT.	EXTENSION	THK.	THICK
GA.	GAUGE	TL	TWO LINE
GALV.	GALVANIZED	TYP.	TYPICAL
HWH	HEX WASHER HEAD	VP	VERTICAL PICKET
LBS	POUNDS		

STRUCTURAL STEEL NOTES

1. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AISC 360-16.
2. STEEL MEMBERS SHALL CONFORM TO THE FOLLOWING MATERIAL SPECIFICATIONS (U.N.O.):
   A. ANGLES AND CHANNELS – ASTM 36, GRADE 36, F_y=36 KSI
   B. PLATES – ASTM 572, GRADE 50, F_y=50 KSI
   C. WIDE FLANGES – ASTM A992 OR ASTM A572 GRADE 50, F_y=50 KSI
   D. STRUCTURAL TUBES (HSS) – ASTM A500, GRADE B, F_y=46 KSI
   E. STRUCTURAL TUBES (HSS ROUND PIPE) – ASTM A500, GRADE B, F_y=42 KSI
   F. STRUCTURAL BOLTS – ASTM A325-PT (PRE-TENSIONED)
   G. NUTS – ASTM A563 GALV., GRADE DH
   H. WASHERS – ASTM F436 GALV., TYPE 1
3. ALL STAINLESS BOLTS SHALL BE PER ASTM F593 (304) SS, ALLOY GROUP1, CONDITION CW WITH F_u=100 KSI AND F_y=125 KSI MIN. NUTS SHALL BE STAINLESS STEEL PER ASTM F594 AND WASHERS SHALL BE STAINLESS STEEL 304.
4. ALL WELDING SHALL BE PERFORMED BY EXPERIENCED, CERTIFIED WELDERS USING THE ELECTRIC ARC WELDING PROCESS, E70XX SERIES ELECTRODES FOR WELDING STRUCTURAL STEEL. WELDING SHALL CONFORM TO AISC AND AWS STANDARDS.
5. ALL WELDS NOT SPECIFIED SHALL BE CONTINUOUS FILLET WELDS. SIZE OF WELD SHALL BE BASED ON AISC STANDARDS FOR THINNER PART JOINED.
6. HOLES FOR BOLTS IN STRUCTURAL STEEL SHALL BE DRILLED OR PUNCHED. BURNING OF HOLES SHALL NOT BE PERMITTED.
7. ALL COPES SHALL BE SAWCUT, UNLESS OTHERWISE PERMITTED BY THE STRUCTURAL ENGINEER IN WRITING.
8. ALL EXTERIOR EXPOSED STRUCTURAL STEEL AND CONNECTORS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123. WHERE THE HOT DIP GALVANIZING IS DAMAGED OR REMOVED DURING CONSTRUCTION, REPAIR WITH AN APPROVED COLD GALVANIZING PAINTING SYSTEM IN ACCORDANCE WITH ASTM A780 AND MANUFACTURER'S WRITTEN INSTRUCTIONS.
9. SUBMITTALS: STRUCTURAL STEEL SHOP DRAWINGS, WELDING PROCEDURE SPECIFICATIONS (WITH CWI STAMP AND SIGNATURE), MATERIAL MILL CERTIFICATES, AND WELDER QUALIFICATIONS.

WELDING NOTES

1. WELDING SHALL CONFORM TO THE "STRUCTURAL WELDING CODE" ANSI / AWS D1.1-15 AND THE "CALIFORNIA FIRE CODE" CFC 2022 (PART 9 TITLE 24, CCR) CHAPTER 35.
2. WELDS SHALL USE E70 ELECTRODES (EXCEPT REINFORCING STEEL WELDS).
3. SHOP WELDING SHALL BE PERFORMED IN A SHOP THAT IS REGISTERED AND APPROVED BY THE GOVERNING JURISDICTION.
4. FIELD WELDING SHALL BE CONTINUOUSLY INSPECTED BY A REGISTERED INSPECTOR. ALL FIELD WELDING MUST BE INDICATED ON THE SHOP DRAWINGS.
5. ALL EXPOSED WELDED CONNECTIONS SHALL BE FILLED AND GROUND SMOOTH AND SUBJECT TO ARCHITECTURAL APPROVAL.
6. ALL WELDS NOT SPECIFIED SHALL BE CONTINUOUS FILLET WELDS. SIZE OF WELDS SHALL BE BASED ON AISC STANDARDS FOR THICKER MATERIAL CONNECTED.
7. ALL COMPLETE JOINT PENETRATION WELDS SHALL HAVE ULTRASONIC TESTING (U.T.) BY QUALIFY AND APPROVAL TESTING AGENCY.

WOOD FRAMING NOTES

1. WOOD FRAMING SHALL BE DOUGLAS FIR-LARCH NO. 1 PRESSURE TREATED MARKED BY W.W.P.A. OR W.C.L.I.B. AS FOLLOWS, UNLESS NOTED OTHERWISE. EACH PIECE SHALL BE GRADE MARKED. ALL MATERIAL USED IN WOOD FOUNDATION SHALL BE PRESSURE TREATED.
2. FOR ALL TREATED WOOD MEMBERS, ALL CUTS, HOLES AND INJURIES SUCH AS ABRASIONS OR HOLES FROM REMOVAL OF NAILS AND SPIKES WHICH MAY PENETRATE THE TREATED ZONE SHALL BE FIELD TREATED IN ACCORDANCE WITH AWPA U1 AND M4.
3. STRUCTURAL FRAMING SHALL BE DOUGLAS FIR IN ACCORDANCE WITH THE STANDARD GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION OR STANDARD GRADING RULES NO. 16 OF THE WEST COAST LUMBER INSPECTION BUREAU, LATEST EDITIONS.
4. LAG SCREWS SHALL BE STEEL AND CONFORM TO ANSI/ASME STANDARD B18.2.1 AND THE REQUIREMENTS OF THE 2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS). HOLES FOR LAG SCREW SHANKS SHALL BE BORED THE SAME DEPTH AND DIAMETER AS THE SHANK. THE REMAINING DEPTH OF PENETRATION OF THE SCREW SHALL BE BORED TO 70% OF THE SHANK DIAMETER. ONE QUARTER INCH (1/4") DIAMETER AND LARGER LAG SCREWS SHALL HAVE PRE-DRILLED HOLES. PROVIDE FULL DIAMETER BODY LAG SCREWS WITH BENDING YIELD STRENGTHS PER TABLE 12J AND 12K IN THE 2018 NDS.
5. WOOD SCREWS SHALL MEET REQUIREMENTS OF ANSI/ASME STANDARD B18.6.1.
6. ALL NAILS SHALL BE COMMON NAILS PER ALL REQUIREMENTS OF 2018 NDS. NAILING NOT SPECIFICALLY INDICATED SHALL COMPLY WITH CCR TITLE 24, PART 2, TABLE 2304.10.1. ALL NAILS SHALL BE GALVANIZED OR OTHER APPROVED CORROSION RESISTANT COATING WHERE EXPOSED TO WEATHER, IN FOUNDATIONS AND AS NOTED ON PLANS, PER THE REQUIREMENTS OF CCR TITLE 24, PART 2, WITH MINIMUM BENDING YIELDS PER TABLE 12N, 12P, 12Q AND 12R IN NDS.
7. PRESSURE PRESERVATIVE TREATMENT SHALL BE PER SECTION 2303.1.9, CCR TITLE 24, PART 2. PROVIDE QUALITY MARK ON ALL TREATED FOUNDATION MEMBERS. PRESSURE TREATED WOOD AND IDENTIFICATION MUST COMPLY WITH CBC 2303.1.9.1. ALL FOUNDATION MEMBERS SHALL BE MARKED AS "FOR GROUND CONTACT (0C4A)" OR "FOR ABOVE GROUND USE (0C3A OR 0C3B)" AS APPROPRIATE. TREAT ALL CUT ENDS OF PRESSURE TREATED MEMBERS WITH AN APPROVED PRESERVATIVE. (WILLARD W/B COPPER GREEN 2 OR AN APPROVED EQUIVALENT). WHERE NOTED, MEMBERS BELOW THE SUB FLOOR THAT ARE NOT A PART OF THE FOUNDATION SHALL BE PRESSURE TREATED PER AWPA STANDARD UI AND M4.
8. IF MACHINE NAILING IS UTILIZED FOR THIS PROJECT, CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF CCR TITLE 24, PART 2. MACHINE NAILING SHALL BE APPROVED BY THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT PRIOR TO INSTALLATION OF NAILS.
9. MACHINE APPLIED NAILING- SHALL HAVE PRIOR DEMONSTRATION AND APPROVAL BY DSA FIELD INSPECTOR AND THE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUOUS SATISFACTORY PERFORMANCE. PLYWOOD SHALL HAVE A MINIMUM THICKNESS OF 3/8". IF NAIL HEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.
10. FASTENERS FOR PRESSURE-PRESERVATIVE TREATED AND FIRE-RETARDANT TREATED WOOD SHALL COMPLY WITH SEC. 2304.10 OF CBC.

POST-INSTALLED ANCHOR BOLTS

1. ANCHOR BOLTS FOR ATTACHMENT TO CONCRETE SHALL BE SIMPSON STAINLESS STEEL TITEN HD SCREWS AND TO BE INSTALLED PER IAPMO UES ER-493.

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE S.E.O.R. SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES OR OMISSIONS ON THE DRAWINGS OR IN THE SPECIFICATIONS OR ANY VARIATIONS NEEDED IN ORDER TO CONFORM TO CODES, RULES AND REGULATIONS. ANY SUCH DISCREPANCY, OMISSION, OR VARIATION NOT REPORTED SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
2. DIMENSIONS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. TYPICAL DETAILS AND GENERAL NOTES ARE MINIMUM REQUIREMENTS TO BE USED WHEN CONDITIONS ARE NOT SHOWN OTHERWISE. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK.
3. WHERE MEMBER LOCATIONS ARE NOT SPECIFICALLY DIMENSIONED, MEMBERS ARE LOCATED EITHER ON COLUMN LINES OR EQUALLY SPACED BETWEEN MEMBERS ON COLUMN LINES OR BETWEEN MEMBERS OTHERWISE LOCATED.
4. ALL WORK AND MATERIALS SHALL CONFORM TO THE MINIMUM STANDARDS OF THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE (CBC) AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.
5. APPROVAL BY THE FIELD INSPECTOR DOES NOT MEAN COMPLIANCE WITH THE PLANS AND SPECIFICATIONS. ANY DESIGN WHICH IS UNCLEAR OR AMBIGUOUS MUST BE REFERRED TO S.E.O.R. FOR INTERPRETATION OR CLARIFICATION.
6. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, FORMS AND SCAFFOLDING.
7. ALL SHOP DRAWINGS SHALL BE CHECKED AND APPROVED BY THE CONTRACTOR BEFORE SUBMITTAL TO S.E.O.R.
8. UNLESS OTHERWISE SHOWN, ALL TYPICAL DETAILS WHERE APPLICABLE, SHALL BE USED.
9. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL AND STATE SAFETY REQUIREMENTS.
10. FOR ANY OPEN CLEAR AREA GREATER THAN 27" BETWEEN THE PRODUCT AND THE GROUND, A HORIZONTAL BARRIER, FOR THE VISUALLY IMPAIRED, WILL BE PROVIDED.
11. FOR LANDING PLATFORM AND RAMP ELEVATIONS OVER 18", THE LANDING AND RAMP LEGS REQUIRE BRACING.
12. DO NOT SCALE DRAWINGS
13. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
14. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
15. CONTRACTOR OPERATIONS SHALL NOT BLOCK, HINDER, IMPEDE OR OTHERWISE INHIBIT THE USE OF REQUIRED EXISTS AT ANY TIME. CONTRACTOR SHALL MAINTAIN UNOBSTRUCTED ACCESS TO FIRE EXTINGUISHERS, FIRE HYDRANTS, TEMPORARY FIRE PROTECTION FACILITIES, STAIRWAYS AND OTHER ACCESS ROUTES FOR FIRE-FIGHTING EQUIPMENTS AND OR PERSONNEL.
16. ELECTRICAL GROUNDING CONNECTION – SHALL BE PROVIDED FOR EACH POSTION AS REQUIRED BY CODE OR LOCAL REQUIREMENTS.
17. STAIR TREADS – ALL STAIR TREADS TO HAVE A CONTRASTING NOSING MAXIMUM 1" FROM TREAD EDGE AND 2" WIDE.
18. PROVIDE PLASTIC END CAPS FOR ALL OPEN END HANDRAIL, GUARDRAIL, AND POSTS.
19. GUARDS SHALL NOT HAVE OPENINGS THAT ALLOW PASSAGE OF A SPHERE 4" IN DIAMETER

COLD FORMED STEEL

1. ALL WORK SHALL MEET THE REQUIREMENTS OF AMERICAN IRON AND STEEL INSTITUTE (AISI) DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS.
2. DESIGN SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES, INCLUDING:
   a. CBC 2022,
   b. AISI S100-16(2020) W/S2-20: NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, 2016 EDITION (REAFFIRMED 2020), WITH SUPPLEMENT 2, 2020 EDITION
   c. AISI S202-20: CODE OF STANDARD PRACTICE FOR COLD-FORMED STEEL FRAMING, 2020
   d. AISI S220-20: NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL NONSTRUCTURAL FRAMING
   e. AISI S240-20: NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL STRUCTURING FRAMING, 2020
   f. AISI S400-20: NORTH AMERICAN STANDARD FOR SEISMIC DESIGN OF COLD-FORMED STEEL STRUCTURAL SYSTEMS, 2020
3. ALL STRUCTURAL, RAIL AND DECK COMPONENTS WILL BE GALVANIZED STEEL.
4. ALL COLD FORMED STEEL MATERIAL FOR 16 GAUGE AND HEAVIER SHALL CONFORM TO THE FOLLOWING:
   A. 50 KSI MIN. YIELD, 65 KSI MIN. TENSILE STRENGTH
   B. PAINTED STEEL PER ASTM A1011 -GRADE 50
   C. GALVANIZED STEEL PER ASTM A653 -GRADE 50
6. ALL WORK SHALL MEET THE REQUIREMENTS OF AMERICAN WELDING SOCIETY (AWS) D1.1 AND D1.3 SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURE.
7. ALL WELDING TO BE PERFORMED BY CERTIFIED LIGHT GAUGE WELDERS CERTIFIED FOR ALL APPROPRIATE DIRECTION COMPLYING WITH AWS D1.3.
   WELDING RODS TO CONFORM TO THE FOLLOWING:
   A. 18 GAUGE AND LIGHTER E60XX
   B. 16 GAUGE AND HEAVIER E70XX OR E6013
   C. COLD FORMED TO STRUCTURAL STEEL E70XX LOW HYDROGEN
8. WELD SIZES FOR WELDING LIGHT GAUGE MATERIAL SHALL BE AS FOLLOWS:
   A. 18 GAUGE 1/16"
   B. 16 GAUGE 3/32"
   C. 14 GAUGE AND HEAVIER 1/8"
9. HOLES IN MEMBERS SHALL BE DRILLED FOR BOLT DIAMETER PLUS 1/16".

COLD FORMED STEEL FASTENERS

1. ALL SHEET METAL SCREWS (SMS) SHALL BE SELF-DRILLING SCREWS AND SELF-TAPPING ZINC GALVANIZED SCREWS, AND SHALL CONFORM TO I.C.C. ESR-1976, U.N.O.
2. SCREWS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND SHALL HAVE SUFFICIENT LENGTH TO ENSURE PENETRATION INTO STEEL STUD BY AT LEAST 3 FULL DIAMETER THREADS. SEE DETAILS 16/S10 & 20/S10.
3. THE DISTANCE BETWEEN FASTENERS SHALL NOT BE LESS THAN 3 DIAMETERS. THE DISTANCE FROM CENTER OF FASTENER TO THE EDGE OF ANY PART SHALL NOT BE LESS THAN 3 DIAMETERS.

SCOPE OF WORK

1. DESIGN STEEL RAMP, LANDING AND STAIRS

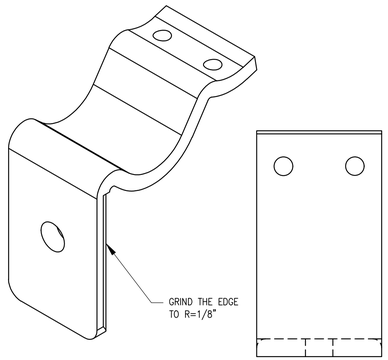
PROJECT DESIGN CRITERIA

1. CODES: 2022 CALIFORNIA BUILDING CODE
2. STRUCTURAL DESIGN INFORMATION:

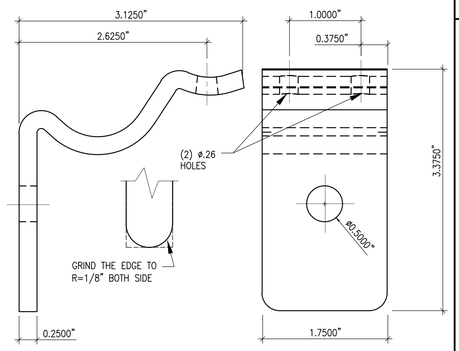
DESIGN LOADS	DATA
LIVE LOAD	100 PSF
SNOW LOAD	0.0 PSF

EARTHQUAKE DESIGN	DATA
RISK CATEGORY	II
SEISMIC IMPORTANCE FACTOR	I_E = 1.0
MAPPED SPECTRAL RESPONSE ACCELERATIONS	S_S = 1.875g, S_1 = 1.0g
SITE CLASS	D (DEFAULT)
SPECIAL RESPONSE COEFFICIENTS	S_{DS}=1.5g, S_{D1}=1.133g
SEISMIC DESIGN CATEGORY	E

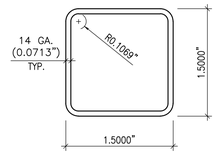
WIND DESIGN	DATA
BASIC WIND SPEED (3-SEC GUST)	V = 105 MPH
WIND EXPOSURE	C
ANALYSIS PROCE



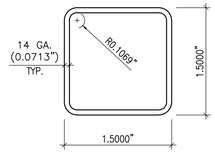
HANDRAIL BRACKET - WAGNER 1970R — 19



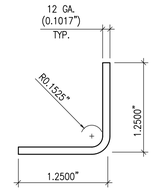
STRINGER CHORDS — 16



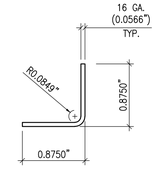
LEG AND TREAD SUPPORT — 12



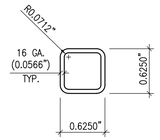
ANGLE BRACE — 8



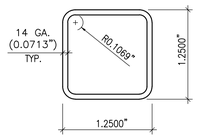
DECK CLOSURE EDGE CONNECTION — 4



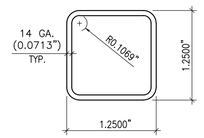
PICKET — 15



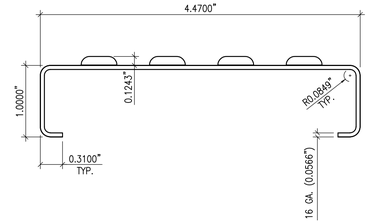
WEDGE STIFFENER — 11



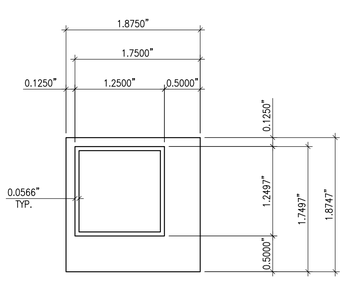
STRINGER TELESCOPIC CONNECTOR — 7

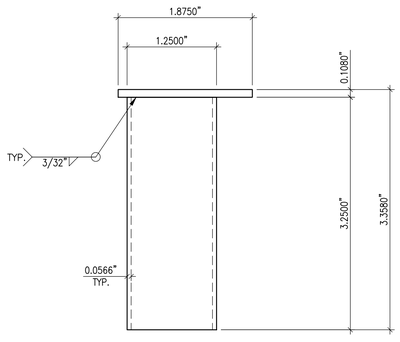


DECK CHANNEL — 3

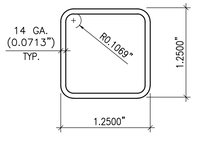


TYP. CORNER COVER POCKET — 14

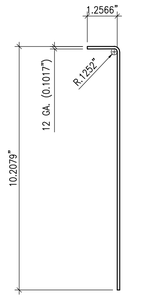




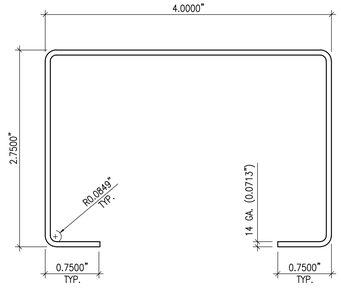
GUARDRAIL, GUARDRAIL POST AND LEG INSERT — 10



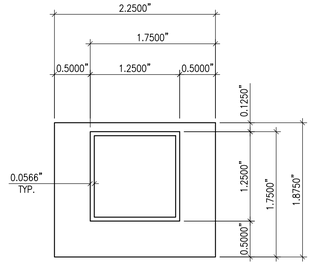
STRINGER ANGLE — 6

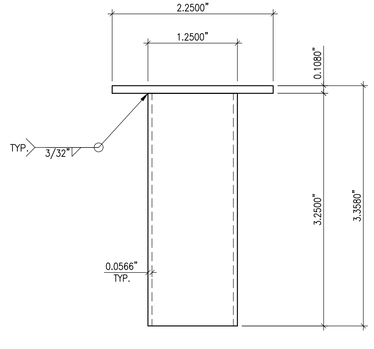


DECK BEAM — 2

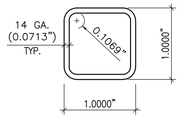


TYP. MIDDLE COVER POCKET — 13

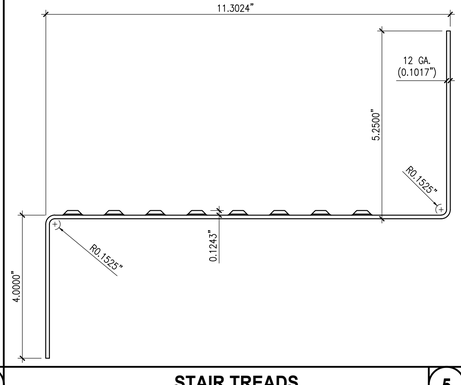




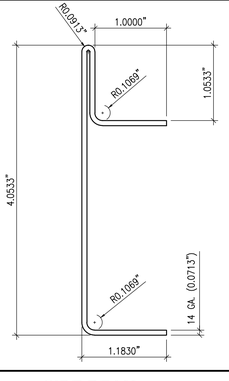
GUARDRAIL TELESCOPIC CONNECTOR — 9



STAIR TREADS — 5



SIDE BEAM — 1



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

NO.	REVISION	DATE
1		
2		
3		

Quick Deck Inc.
LOCUST, NC 28097
PHONE: 1(704)888-0327
EMAIL: drachi@quick-deck.com

REGISTERED PROFESSIONAL ENGINEER
MUHAMMAD R. HAYAT
NO. 3545
STRUCTURAL
STATE OF CALIFORNIA
11/01/2023

M.R.H. STRUCTURAL ENGINEERS
3400 IRVINE AVE., STE. 101
NEWPORT BEACH, CA 92660
(714) 444-8300
MRH@MRHSE.COM

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122493 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 11/01/2023

DIVISION OF THE STATE ARCHITECTS

SHEET TITLE: PROFILE DETAILS

DATE: 05/22/2023
JOB NO.: 23131
FILENAME: DSA 2023 DRAWING (MRH)
REV.:
DRAWN BY:
APPROVED BY: MH
SCALE: N.T.S.
PLOT DATE: 11/01/2023
SHEET NUMBER: S2

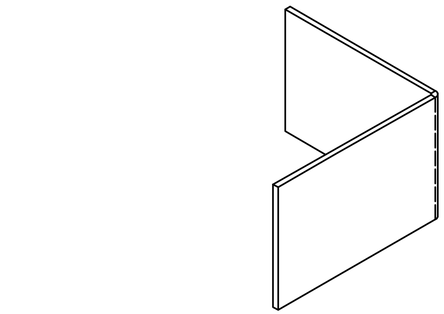
2 of 20

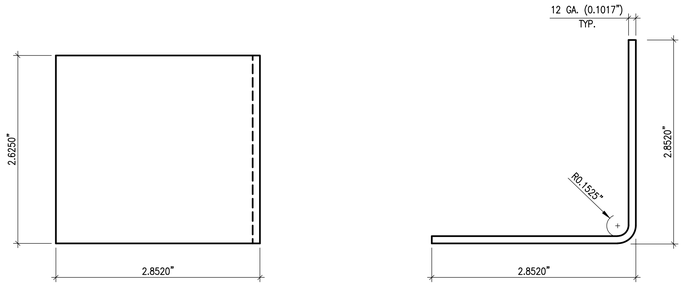
PLOT DATE: November 1, 2023

THESE DRAWINGS AND THE MATERIAL CONTAINED HEREIN ARE PROPERTY OF MRH, STRUCTURAL ENGINEERS AND SHALL NOT BE PRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OR THE FURNISHING OF ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE CONSENT OF MRH, STRUCTURAL ENGINEERS. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATED WITH MRH, STRUCTURAL ENGINEERS, SHALL BE THE PROPERTY OF MRH, STRUCTURAL ENGINEERS.

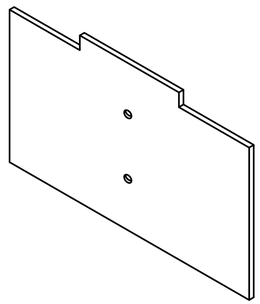
© MRH, STRUCTURAL ENGINEERS, 2023, ALL RIGHTS RESERVED

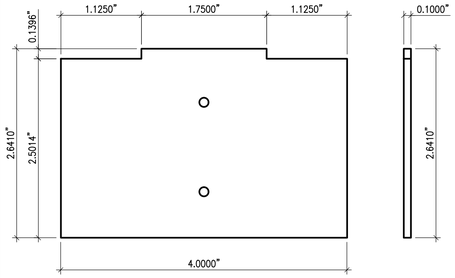
INNER CORNER POCKET — 15



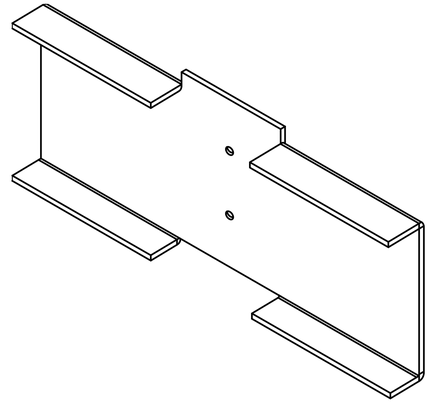


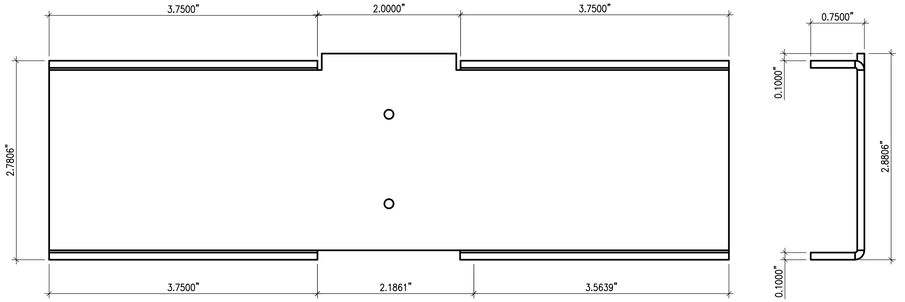
INNER SIDE POCKET — 11



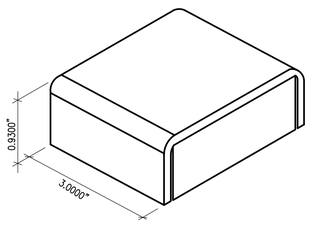


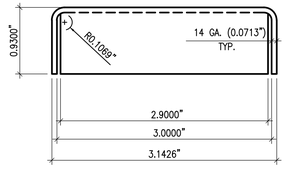
FRAME SIDE POCKET — 3



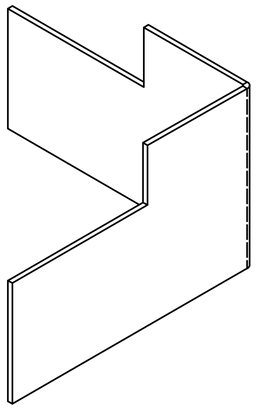


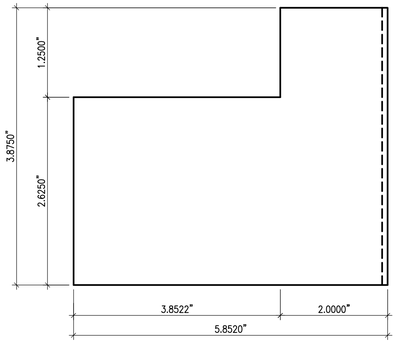
BLOCKING CHAIR CHANNEL — 17

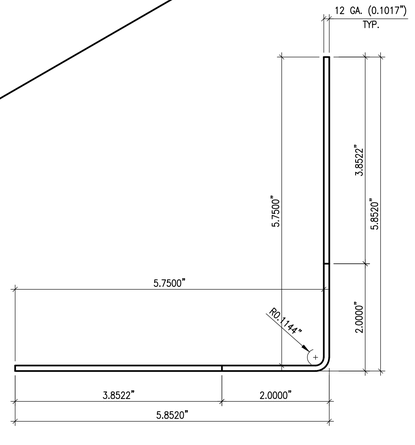




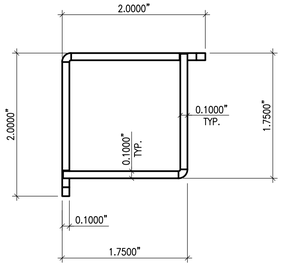
FRAME CORNER POCKET — 9

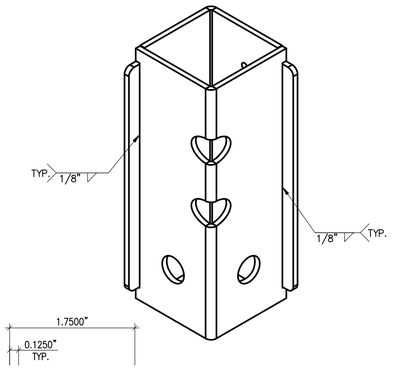


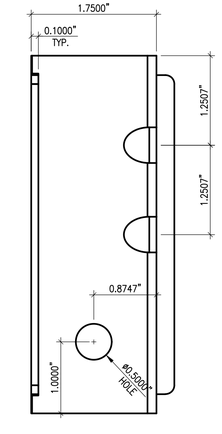


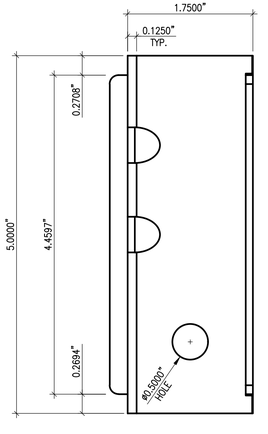


POCKET TUBE — 1









IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

NO.	REVISION	DATE
1		
2		
3		

Quick Deck Inc.
LOCUST, NC 28097
PHONE: 1(704)888-0327
EMAIL: drachi@quick-deck.com

REGISTERED PROFESSIONAL ENGINEER
MUHAMMAD R. HAFIZ
NO. 3545
MRH
STRUCTURAL
STATE OF CALIFORNIA
11/01/2023

M.R.H. STRUCTURAL ENGINEERS
3400 IRVINE AVE., STE. 101
NEWPORT BEACH, CA 92660
(714) 486-8200
MRH@MRHSE.COM

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122493 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 11/01/2023

DIVISION OF THE STATE ARCHITECTS

SHEET TITLE: PROFILE DETAILS

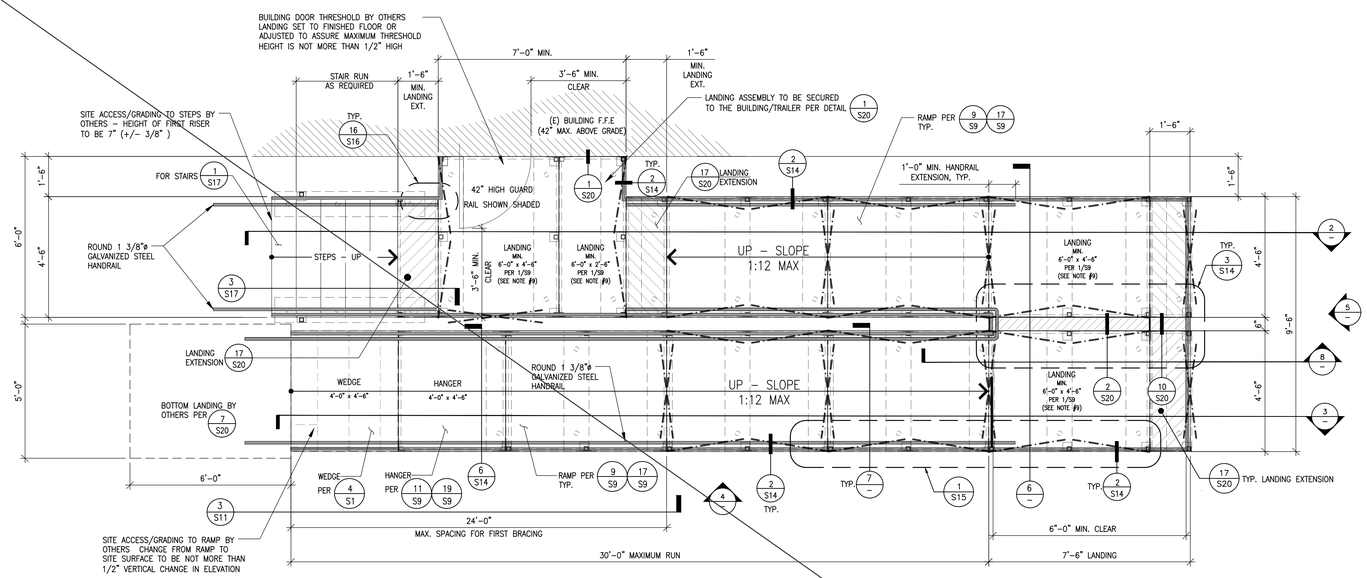
DATE: 05/22/2023
JOB NO.: 23131
FILENAME: DSA 2023 DRAWING (MRH)
REV.:
DRAWN BY:
APPROVED BY: MH
SCALE: N.T.S.
PLOT DATE: 11/01/2023
SHEET NUMBER: **S3**

3 of 20

PLOT DATE: November 1, 2023

THESE DRAWINGS AND THE MATERIAL CONTAINED HEREIN ARE PROPERTY OF MRH, STRUCTURAL ENGINEERS AND SHALL NOT BE PRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OR THE FURNISHING OF ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE CONSENT OF MRH, STRUCTURAL ENGINEERS. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATED WITH MRH, STRUCTURAL ENGINEERS, SHALL BE THE PROPERTY OF MRH, STRUCTURAL ENGINEERS.

© MRH, STRUCTURAL ENGINEERS, 2023, ALL RIGHTS RESERVED



TYPICAL PLAN (W/ FINISH LANDING HEIGHT OVER 30") 1

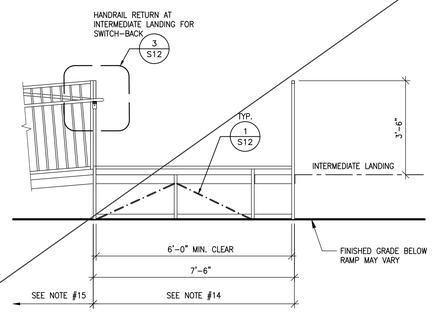
Scale: 3/8"=1'-0"

SILL AND BASE PLATE NOTES

1. WOOD SILL PLATES ARE SHOWN ONLY. SEE ALL APPLICABLE DETAILS ON SHEET 17 FOR ADDITIONAL INFORMATION.
2. SEE DETAILS 1 S19, 2 S19 & 6 S19 FOR BASE PLATE ON CONCRETE BASE.
3. SEE DETAILS 3 S19, 4 S19 & 8 S19 FOR BASE PLATE ON ASPHALT BASE.

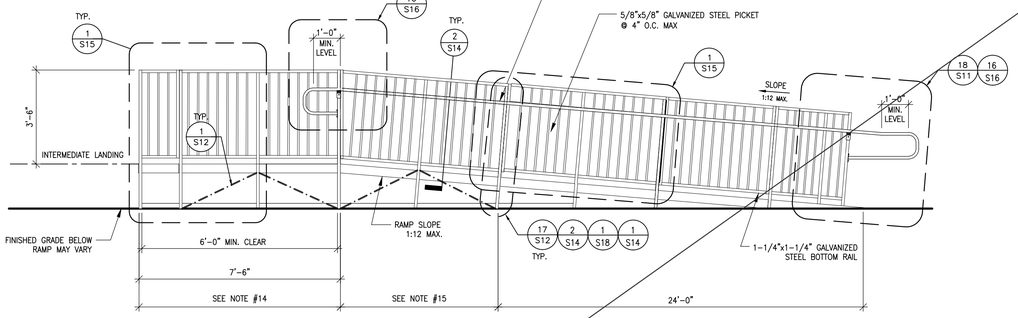
GENERAL NOTES

1. SEE SHEET S-1 FOR NOTES AND LEGEND.
2. SEE SHEETS S-9 THROUGH S-19 FOR TYPICAL & SPECIFIC DETAILS.
3. UNLESS NOTED OTHERWISE, ALL SILL PLATES SHALL BE CONNECTED TO EACH OTHER WITH GALVANIZED NAILS PER DETAILS.
4. UNLESS NOTED OTHERWISE, FOR MINIMUM SILL RESTRAINT: INSTALL 1" DIA. STANDARD (1.315"ø O.D.) SCHEDULE 40 GALVANIZED PIPE AT 10'-0" MAX., PROVIDE MINIMUM OF (2) PIPES PER FOUNDATION SILL PLATE. 12" PENETRATION BELOW SURFACE VERTICALLY. DRILL SILL 1¾" MAX. PIPE MAY BE DRIVEN MAX. OF 45° ANGLE TO VERTICAL. (24" LONG PIPE. REQUIRED FOR PENETRATION AT 45° ANGLE.)
5. ALL FOUNDATION PLATES SHALL BE PRESSURE TREATED D.F. #1 (BY OTHERS).
6. SILL PLATES SHALL NOT BE LESS THAN 2'-0" LONG UNLESS NOTED OTHERWISE.
7. NAILING- IN ACCORDANCE WITH TITLE 24 CCR- TABLE 2304.10.1. NAILS SHALL BE GALVANIZED COMMON NAILS.
8. CONTRACTOR SHALL FILED VERIFY ALL DIMENSIONS AND NOTIFY THE STRUCTURAL IF THERE ARE ANY DISCREPANCIES.
9. ALL DECKS, LANDINGS, AND FLAT SURFACES SHALL HAVE MAXIMUM 1:48 SLOPE IN ALL DIRECTION TO AVOID WATER ACCUMULATION ON TOP OF DECKS, LANDINGS, AND FLAT SURFACES.
10. GUARD RAILS AND/OR WALL ADJACENT TO HANDRAILS SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS OR EDGES.
11. SEE DETAIL 1 S15 & 1 S16 & 3 S16 FOR TYPICAL GUARD RAIL AND HANDRAIL ASSEMBLY.
12. SEE DETAIL 3 S20 FOR CHANGE IN ELEVATION.
13. RAMP, LANDING, STAIRS, AND GROUND SURFACES SHALL BE STABLE, FIRM, AND SLIP RESISTANT AND SHALL COMPLY WITH 11B-302, CBC SECTION 11B-302.1.
14. PROVIDE DIAGONAL BRACING ALL AROUND AND SIDES OF 4'-6" x 6'-0" LANDING PER DETAILS 2 S12 & 3 S12.
15. RAMP BRACING REQUIRED EACH SIDE OF EACH RAMP/LANDING MODULE WHERE RAMP/LANDING HEIGHT EXCEEDS 20" PER DETAILS 1 S12, 2 S12 & 3 S12.
16. GUARDS SHALL NOT HAVE OPENINGS THAT ALLOW PASSAGE OF A SPHERE 4" IN DIAMETER.
17. LANDING ASSEMBLY TO BE SECURED TO THE BUILDING/TRAILER PER DETAIL 1 S20.
18. FOR STAIRS PLAN, SECTION AND DETAILS SEE SHEET S17.



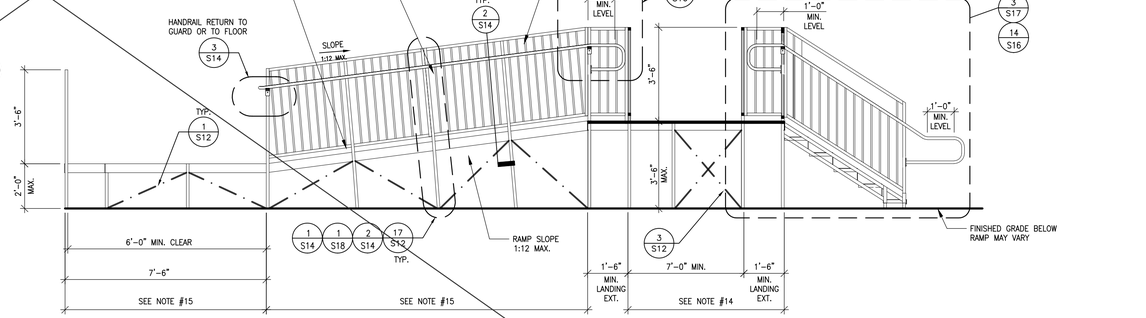
SECTION 8

Scale: N.T.S.



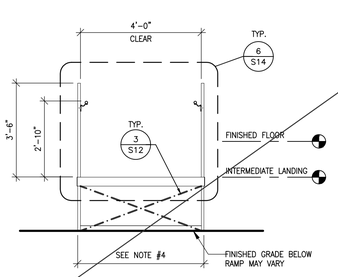
SECTION 3

Scale: N.T.S.



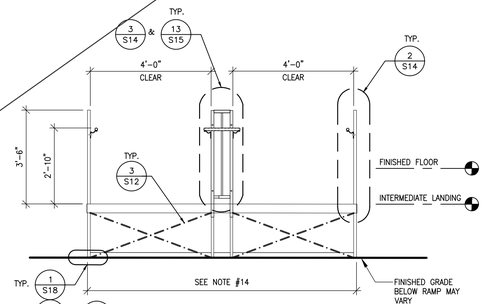
SECTION 2

Scale: N.T.S.



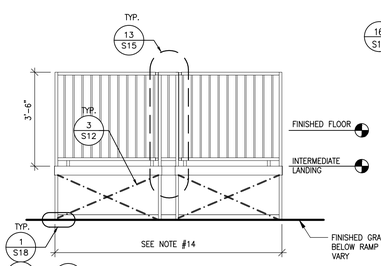
SECTION 7

Scale: N.T.S.



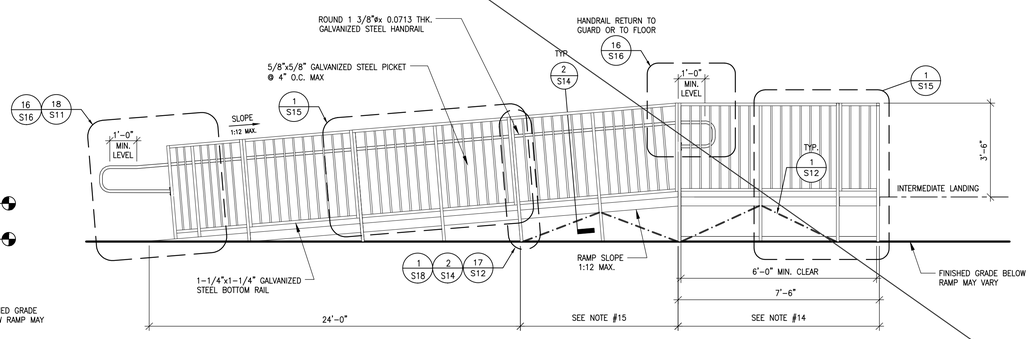
SECTION 6

Scale: N.T.S.



ELEVATION 5

Scale: N.T.S.



ELEVATION 4

Scale: N.T.S.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

NO.	REVISION	DATE
3.		
2.		
1.		

Quick-Deck Inc.
LOCUST, NC 28097
PHONE: 1(704)888-0327
EMAIL: drachi@quick-deck.com

REGISTERED PROFESSIONAL ENGINEER
MUHAMMAD R. HAFIZ
NO. 3545
MRH
STRUCTURAL ENGINEER
STATE OF CALIFORNIA
11/01/2023

M.R.H. STRUCTURAL ENGINEERS
3400 IRVINE AVE., STE. 101
NEWPORT BEACH, CA 92660
(714) 434-8200
MRH@MRHSE.COM

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122493 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 11/01/2023

DIVISION OF THE STATE ARCHITECTS

SHEET TITLE: PLANS, TYPICAL RAMP/LANDING CONFIGURATIONS AND ELEVATIONS (LANDING HEIGHT OVER 30")

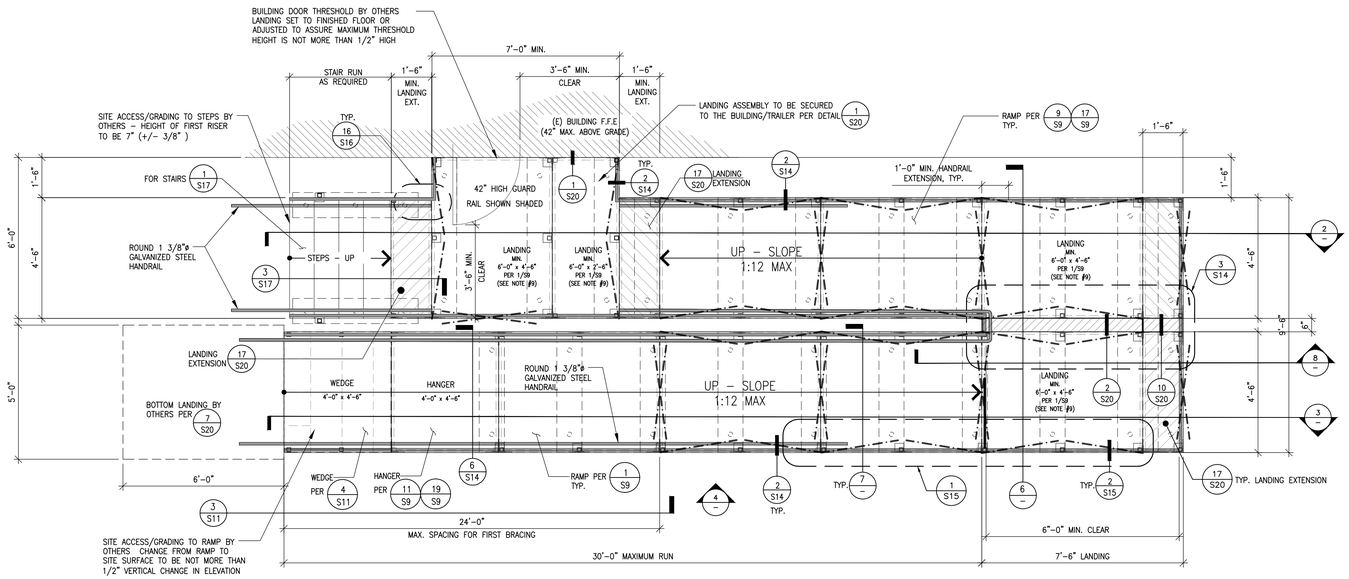
DATE	05/22/2023
JOB NO.	23131
FILENAME	DSA 2023 DRAWING (MRH)
REV.	
DRAWN BY	
APPROVED BY	MH
SCALE	N.T.S.
PLOT DATE	11/01/2023
SHEET NUMBER	**S4**

4 of 20

PLOT DATE: November 1, 2023

THESE DRAWINGS AND THE MATERIAL CONTAINED HEREIN ARE PROPERTY OF MRH, STRUCTURAL ENGINEERS AND SHALL NOT BE PRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OR THE FURNISHING OF ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE CONSENT OF MRH, STRUCTURAL ENGINEERS. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATED WITH MRH, STRUCTURAL ENGINEERS, SHALL BE THE PROPERTY OF MRH, STRUCTURAL ENGINEERS.

© MRH, STRUCTURAL ENGINEERS, 2023, ALL RIGHTS RESERVED



TYPICAL PLAN (W/ FINISH LANDING HEIGHT 30" OR LESS) 1

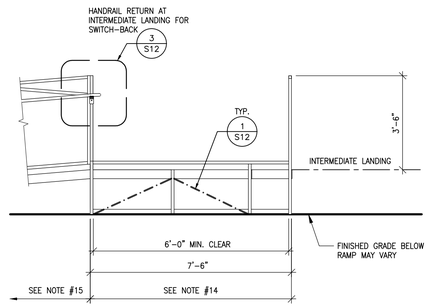
Scale: 3/8"=1'-0"

SILL AND BASE PLATE NOTES

1. WOOD SILL PLATES ARE SHOWN ONLY. SEE ALL APPLICABLE DETAILS ON SHEET 17 FOR ADDITIONAL INFORMATION.
2. SEE DETAILS 1 S19, 2 S19 & 6 S19 FOR BASE PLATE ON CONCRETE BASE.
3. SEE DETAILS 3 S19, 4 S19 & 8 S19 FOR BASE PLATE ON ASPHALT BASE.

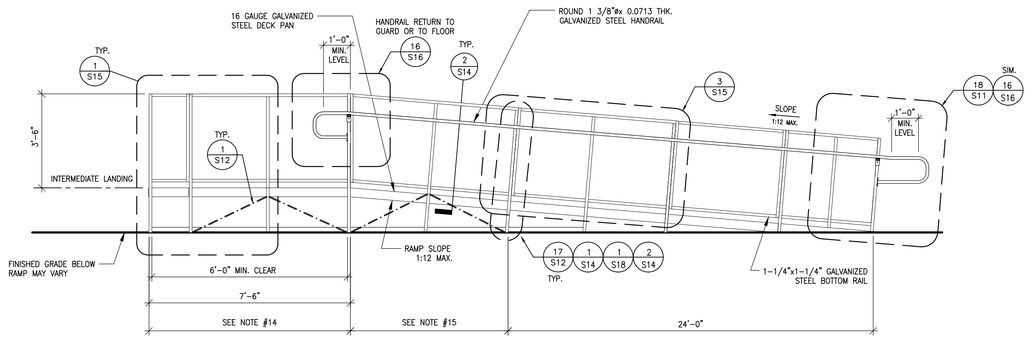
GENERAL NOTES

1. SEE SHEET S-1 FOR NOTES AND LEGEND.
2. SEE SHEETS S-9 THROUGH S-19 FOR TYPICAL & SPECIFIC DETAILS.
3. UNLESS NOTED OTHERWISE, ALL SILL PLATES SHALL BE CONNECTED TO EACH OTHER WITH GALVANIZED NAILS PER DETAILS.
4. UNLESS NOTED OTHERWISE, FOR MINIMUM SILL RESTRAINT: INSTALL 1" DIA. STANDARD (1.315"ø O.D.) SCHEDULE 40 GALVANIZED PIPE AT 10'-0" MAX., PROVIDE MINIMUM OF (2) PIPES PER FOUNDATION SILL PLATE. 12" PENETRATION BELOW SURFACE VERTICALLY. DRILL SILL 1⅛" MAX. PIPE MAY BE DRIVEN MAX. OF 45° ANGLE TO VERTICAL. (24" LONG PIPE. REQUIRED FOR PENETRATION AT 45° ANGLE.)
5. ALL FOUNDATION PLATES SHALL BE PRESSURE TREATED D.F. #1 (BY OTHERS).
6. SILL PLATES SHALL NOT BE LESS THAN 2'-0" LONG UNLESS NOTED OTHERWISE.
7. NAILING- IN ACCORDANCE WITH TITLE 24 CCR- TABLE 2304.10.1. NAILS SHALL BE GALVANIZED COMMON NAILS.
8. CONTRACTOR SHALL FILED VERIFY ALL DIMENSIONS AND NOTIFY THE STRUCTURAL IF THERE ARE ANY DISCREPANCIES.
9. ALL DECKS, LANDINGS, AND FLAT SURFACES SHALL HAVE MAXIMUM 1:48 SLOPE IN ALL DIRECTION TO AVOID WATER ACCUMULATION ON TOP OF DECKS, LANDINGS, AND FLAT SURFACES.
10. GUARD RAILS AND/OR WALL ADJACENT TO HANDRAILS SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS OR EDGES.
11. SEE DETAIL 1 S15 & 1 S16 & 3 S16 FOR TYPICAL GUARD RAIL AND HANDRAIL ASSEMBLY.
12. SEE DETAIL 3 S20 FOR CHANGE IN ELEVATION.
13. RAMP, LANDING, STAIRS, AND GROUND SURFACES SHALL BE STABLE, FIRM, AND SLIP RESISTANT AND SHALL COMPLY WITH 11B-302, CBC SECTION 11B-302.1.
14. PROVIDE DIAGONAL BRACING ALL AROUND AND SIDES OF 4'-6" x 6'-0" LANDING PER DETAILS 2 S12 & 3 S12.
15. RAMP BRACING REQUIRED EACH SIDE OF EACH RAMP/LANDING MODULE WHERE RAMP/LANDING HEIGHT EXCEEDS 20" PER DETAILS 1 S12, 2 S12 & 3 S12.
16. GUARDS SHALL NOT HAVE OPENINGS THAT ALLOW PASSAGE OF A SPHERE 4" IN DIAMETER.
17. LANDING ASSEMBLY TO BE SECURED TO THE BUILDING/TRAILER PER DETAIL 1 S20.
18. FOR STAIRS PLAN, SECTION AND DETAILS SEE SHEET S17.



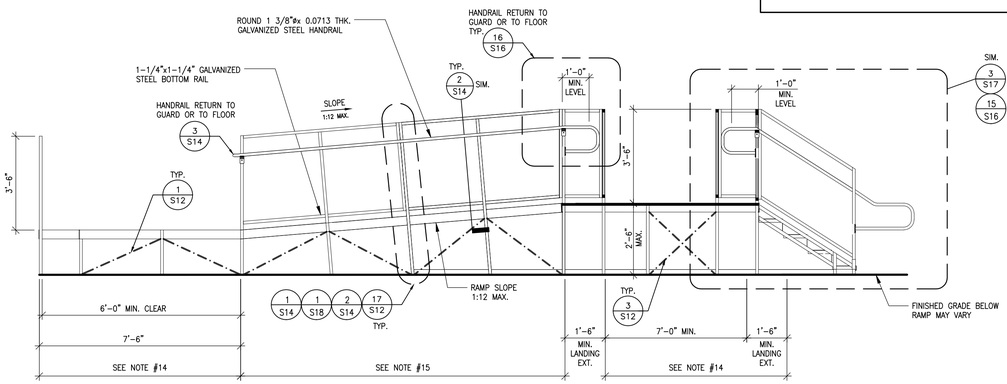
SECTION 8

Scale: N.T.S.



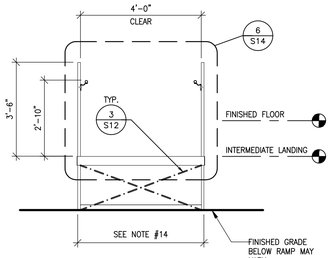
SECTION 3

Scale: N.T.S.



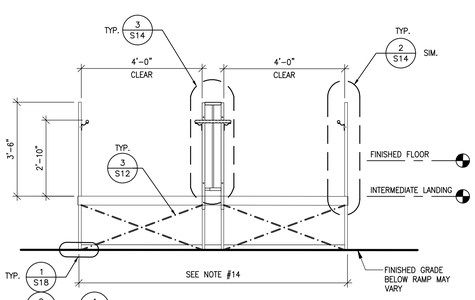
SECTION 2

Scale: N.T.S.



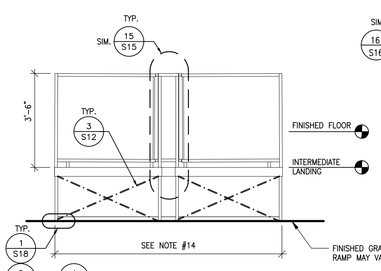
SECTION 7

Scale: N.T.S.



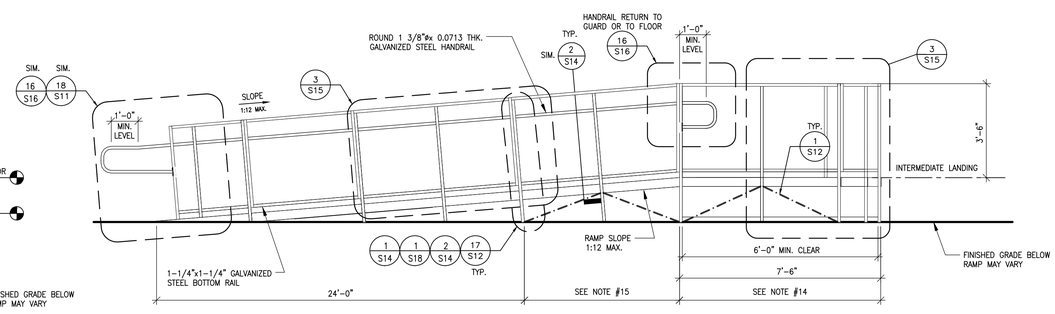
SECTION 6

Scale: N.T.S.



ELEVATION 5

Scale: N.T.S.



ELEVATION 4

Scale: N.T.S.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

NO.	REVISION	DATE
3.		
2.		
1.		

Quick Deck Inc.
LOCUST, NC 28097
PHONE: 1(704)888-0327
EMAIL: drachi@quick-deck.com

REGISTERED PROFESSIONAL ENGINEER
MOHAMMAD R. HAFIR
NO. 3545
MRH STRUCTURAL ENGINEERS
STATE OF CALIFORNIA
11/01/2023

M.R.H. STRUCTURAL ENGINEERS
3400 IRVINE AVE., STE. 101
NEWPORT BEACH, CA 92660
(714) 444-8200
MRH@MRHSE.COM

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122493 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 11/01/2023

DIVISION OF THE STATE ARCHITECTS

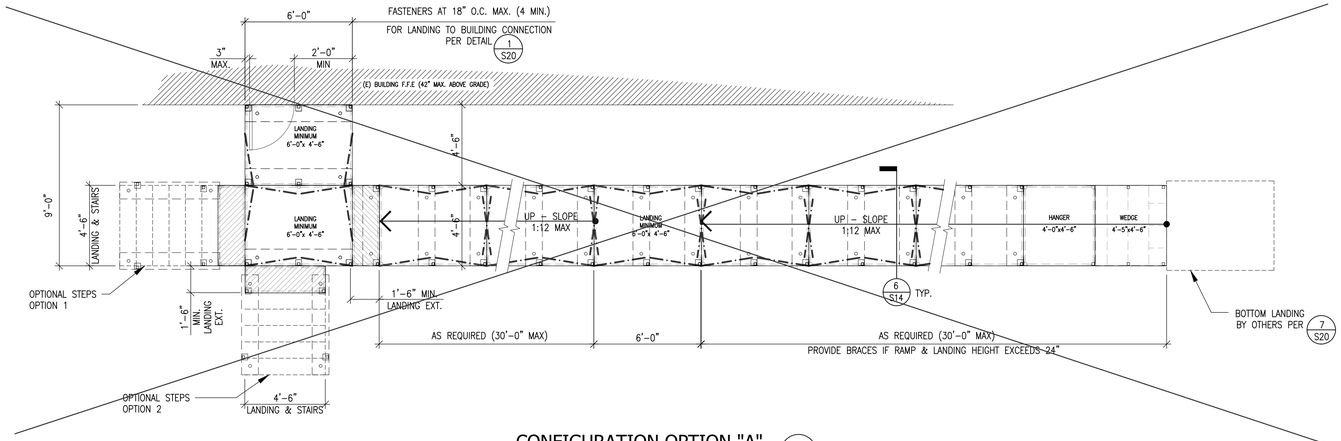
SHEET TITLE: PLANS, TYPICAL RAMP/LANDING CONFIGURATIONS AND ELEVATIONS (LANDING HEIGHT 30" OR LESS)

DATE	05/22/2023
JOB NO.	23131
FILENAME	DSA 2023 DRAWING (MRH)
REV.	
DRAWN BY	
APPROVED BY	MH
SCALE	N.T.S.
PLOT DATE	11/01/2023
SHEET NUMBER	**S5**

PLOT DATE: November 1, 2023

THESE DRAWINGS AND THE MATERIAL CONTAINED HEREIN ARE PROPERTY OF MRH, STRUCTURAL ENGINEERS AND SHALL NOT BE PRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OR THE FURNISHING OF ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE CONSENT OF MRH, STRUCTURAL ENGINEERS. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATED WITH MRH, STRUCTURAL ENGINEERS, SHALL BE THE PROPERTY OF MRH, STRUCTURAL ENGINEERS.

© MRH, STRUCTURAL ENGINEERS, 2023, ALL RIGHTS RESERVED

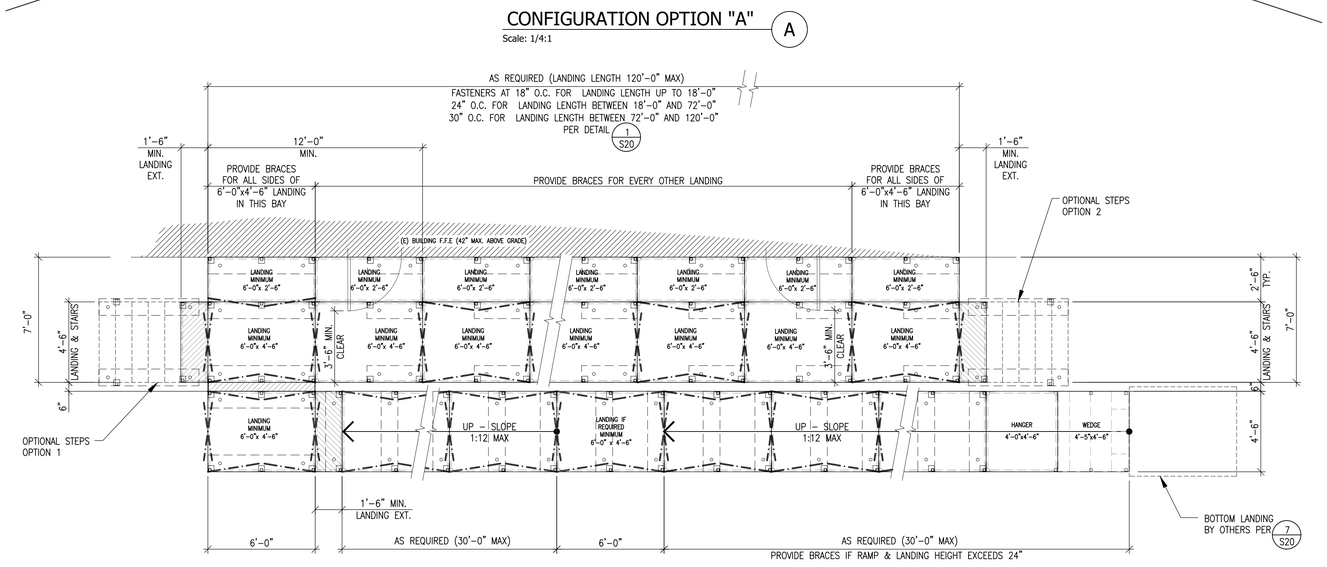


CONFIGURATION OPTION "A" (A)

Scale: 1/4:1

OPTION "A" NOTES

1. SEE SHEET S4 & S5 FOR INFORMATION NOT PROVIDED HERE.
2. SEE PLANS TYPICAL PLANS 1/S4 & 1/S5 FOR PLAN INFORMATION NOT SHOWN HERE.
3. GUARDRAILS AND HANDRAILS ARE NOT SHOWN NOR INDICATED ON THIS PLAN FOR CLARITY. SEE 1/S4 & 1/S5 FOR GUARDRAIL AND HANDRAIL LOCATIONS AND POSITIONS.
4. WOOD SILL PLATES ARE SHOWN ONLY. SEE ALL APPLICABLE DETAILS ON SHEET 17 FOR ADDITIONAL INFORMATION.
5. SEE DETAILS 1/S19 & 2/S19 & 6/S19 FOR BASE PLATE ON CONCRETE BASE.
6. SEE DETAILS 3/S19 & 4/S19 & 8/S19 FOR BASE PLATE ON ASPHALT BASE.
7. SEE GENERAL NOTES #1 AND #15 FOR BRACING INFORMATION.
8. SEE DETAILS 1/S4 , 1/S5 , 1/S17 & 3/S17 FOR LANDING HEIGHT, MINIMUM GUARDRAIL HEIGHT AND STAIRS HEIGHT ABOVE FINISH FLOOR.

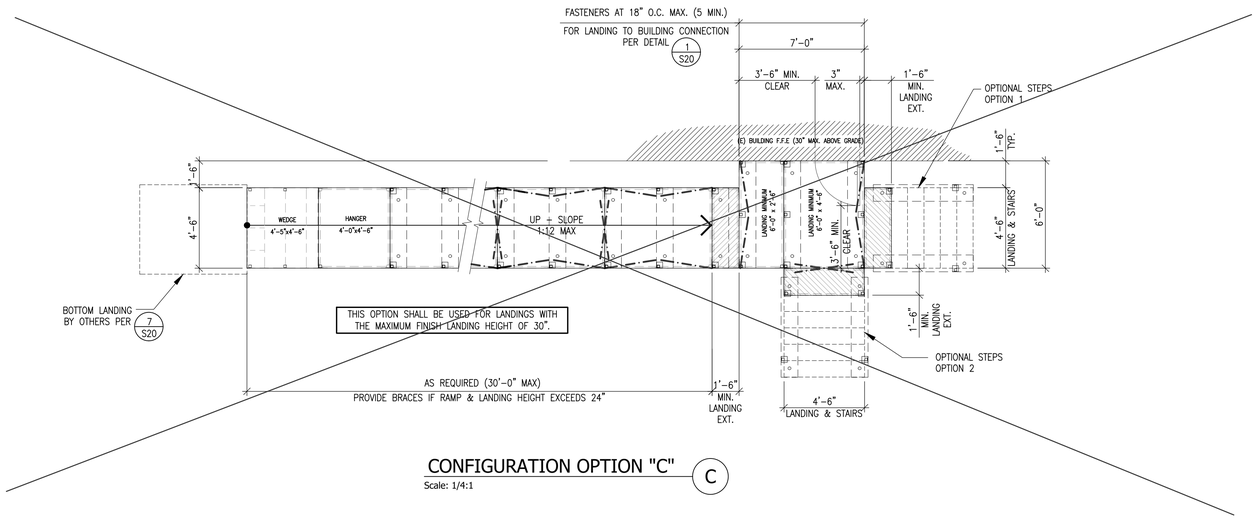


CONFIGURATION OPTION "B" (B)

Scale: 1/4:1

OPTION "B" NOTES

1. SEE SHEET S4 & S5 FOR INFORMATION NOT PROVIDED HERE.
2. SEE PLANS TYPICAL PLANS 1/S4 & 1/S5 FOR PLAN INFORMATION NOT SHOWN HERE.
3. GUARDRAILS AND HANDRAILS ARE NOT SHOWN NOR INDICATED ON THIS PLAN FOR CLARITY. SEE 1/S4 & 1/S5 FOR GUARDRAIL AND HANDRAIL LOCATIONS AND POSITIONS.
4. WOOD SILL PLATES ARE SHOWN ONLY. SEE ALL APPLICABLE DETAILS ON SHEET 17 FOR ADDITIONAL INFORMATION.
5. SEE DETAILS 1/S19 & 2/S19 & 6/S19 FOR BASE PLATE ON CONCRETE BASE.
6. SEE DETAILS 3/S19 & 4/S19 & 8/S19 FOR BASE PLATE ON ASPHALT BASE.
7. SEE GENERAL NOTES #1 AND #15 FOR BRACING INFORMATION.
8. SEE DETAILS 1/S4 , 1/S5 , 1/S17 & 3/S17 FOR LANDING HEIGHT, MINIMUM GUARDRAIL HEIGHT AND STAIRS HEIGHT ABOVE FINISH FLOOR.



CONFIGURATION OPTION "C" (C)

Scale: 1/4:1

OPTION "C" NOTES

1. SEE SHEET S4 & S5 FOR INFORMATION NOT PROVIDED HERE.
2. SEE PLANS TYPICAL PLANS 1/S4 & 1/S5 FOR PLAN INFORMATION NOT SHOWN HERE.
3. GUARDRAILS AND HANDRAILS ARE NOT SHOWN NOR INDICATED ON THIS PLAN FOR CLARITY. SEE 1/S4 & 1/S5 FOR GUARDRAIL AND HANDRAIL LOCATIONS AND POSITIONS.
4. WOOD SILL PLATES ARE SHOWN ONLY. SEE ALL APPLICABLE DETAILS ON SHEET 17 FOR ADDITIONAL INFORMATION.
5. SEE DETAILS 1/S19 & 2/S19 & 6/S19 FOR BASE PLATE ON CONCRETE BASE.
6. SEE DETAILS 3/S19 & 4/S19 & 8/S19 FOR BASE PLATE ON ASPHALT BASE.
7. SEE GENERAL NOTES #1 AND #15 FOR BRACING INFORMATION.
8. SEE DETAILS 1/S4 , 1/S5 , 1/S17 & 3/S17 FOR LANDING HEIGHT, MINIMUM GUARDRAIL HEIGHT AND STAIRS HEIGHT ABOVE FINISH FLOOR.

GENERAL NOTES

1. SEE SHEET S-1 FOR NOTES AND LEGEND.
2. SEE SHEETS S-9 THROUGH S-19 FOR TYPICAL & SPECIFIC DETAILS.
3. UNLESS NOTED OTHERWISE, ALL SILL PLATES SHALL BE CONNECTED TO EACH OTHER WITH GALVANIZED NAILS PER DETAILS.
4. UNLESS NOTED OTHERWISE, FOR MINIMUM SILL RESTRAINT: INSTALL 1" DIA. STANDARD (1.315"ø O.D.) SCHEDULE 40 GALVANIZED PIPE AT 10'-0" MAX., PROVIDE MINIMUM OF (2) PIPES PER FOUNDATION SILL PLATE. 12" PENETRATION BELOW SURFACE VERTICALLY. DRILL SILL 1¼" MAX. PIPE MAY BE DRIVEN MAX. OF 45° ANGLE TO VERTICAL. (24" LONG PIPE. REQUIRED FOR PENETRATION AT 45° ANGLE.)
5. ALL FOUNDATION PLATES SHALL BE PRESSURE TREATED D.F. #1 (BY OTHERS).
6. SILL PLATES SHALL NOT BE LESS THAN 2'-0" LONG UNLESS NOTED OTHERWISE.
7. NAILING- IN ACCORDANCE WITH TITLE 24 CCR- TABLE 2304.10.1. NAILS SHALL BE GALVANIZED COMMON NAILS.
8. CONTRACTOR SHALL FILED VERIFY ALL DIMENSIONS AND NOTIFY THE STRUCTURAL IF THERE ARE ANY DISCREPANCIES.
9. ALL DECKS, LANDINGS, AND FLAT SURFACES SHALL HAVE MAXIMUM 1:48 SLOPE IN ALL DIRECTION TO AVOID WATER ACCUMULATION ON TOP OF DECKS, LANDINGS, AND FLAT SURFACES.
10. GUARD RAILS AND/OR WALL ADJACENT TO HANDRAILS SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS OR EDGES.
11. SEE DETAIL 1/S15 & 1/S16 & 3/S16 FOR TYPICAL GUARD RAIL AND HANDRAIL ASSEMBLY.
12. SEE DETAIL 3/S20 FOR CHANGE IN ELEVATION.
13. RAMP, LANDING, STAIRS, AND GROUND SURFACES SHALL BE STABLE, FIRM, AND SLIP RESISTANT AND SHALL COMPLY WITH 11B-302, CBC SECTION 11B-302.1.
14. PROVIDE DIAGONAL BRACING ALL AROUND AND SIDES OF 4'-6" x 6'-0" LANDING PER DETAILS 2/S12 & 3/S12 .
15. RAMP BRACING REQUIRED EACH SIDE OF EACH RAMP/LANDING MODULE WHERE RAMP/LANDING HEIGHT EXCEEDS 20" PER DETAILS 1/S12 , 2/S12 & 3/S12 .
16. GUARDS SHALL NOT HAVE OPENINGS THAT ALLOW PASSAGE OF A SPHERE 4" IN DIAMETER.
17. LANDING ASSEMBLY TO BE SECURED TO THE BUILDING/TRAILER PER DETAIL 1/S20 .
18. FOR STAIRS PLAN, SECTION AND DETAILS SEE SHEET S17.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

NO.	REVISION	DATE
1		
2		
3		

Quick Deck Inc.
LOCUST, NC 28097
PHONE: 1(704)888-0327
EMAIL: drachi@quick-deck.com

REGISTERED PROFESSIONAL ENGINEER
MUHAMMAD R. HAFIZ
No. 3545
MRH
STRUCTURAL
STATE OF CALIFORNIA
11/01/2023

M.R.H. STRUCTURAL ENGINEERS
3400 IRVINE AVE., STE. 101
NEWPORT BEACH, CA 92660
(714) 444-8200
MRH@MRHSE.COM

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122493 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 11/01/2023

DIVISION OF THE STATE ARCHITECTS

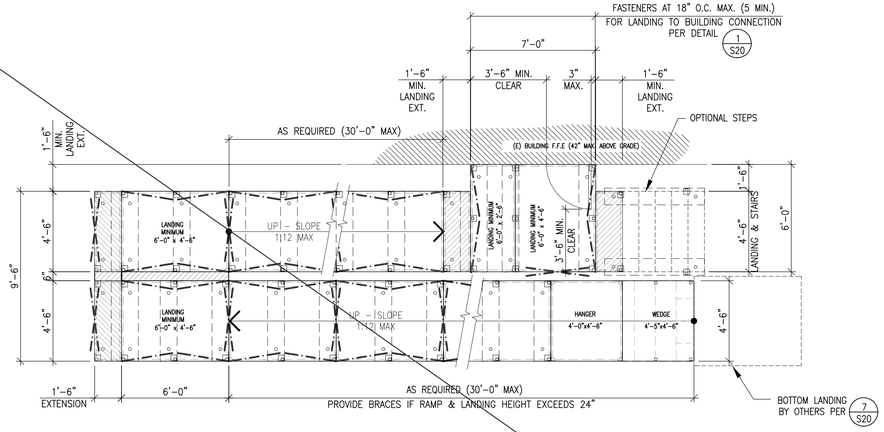
SHEET TITLE: PLANS AND TYPICAL RAMP/LANDING CONFIGURATION OPTIONS

DATE	05/22/2023
JOB NO.	23131
FILENAME	DSA 2023 DRAWING (MRH)
REV.	
DRAWN BY	
APPROVED BY	MH
SCALE	N.T.S.
PLOT DATE	11/01/2023
SHEET NUMBER	S6

6 of 20

PLOT DATE: November 1, 2023

THESE DRAWINGS AND THE MATERIAL CONTAINED HEREIN ARE PROPERTY OF MRH, STRUCTURAL ENGINEERS AND SHALL NOT BE PRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OR THE FURNISHING OF ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE CONSENT OF MRH, STRUCTURAL ENGINEERS. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATED WITH MRH, STRUCTURAL ENGINEERS, SHALL BE THE PROPERTY OF MRH, STRUCTURAL ENGINEERS.
© MRH, STRUCTURAL ENGINEERS, 2023, ALL RIGHTS RESERVED



CONFIGURATION OPTION "E" (D)

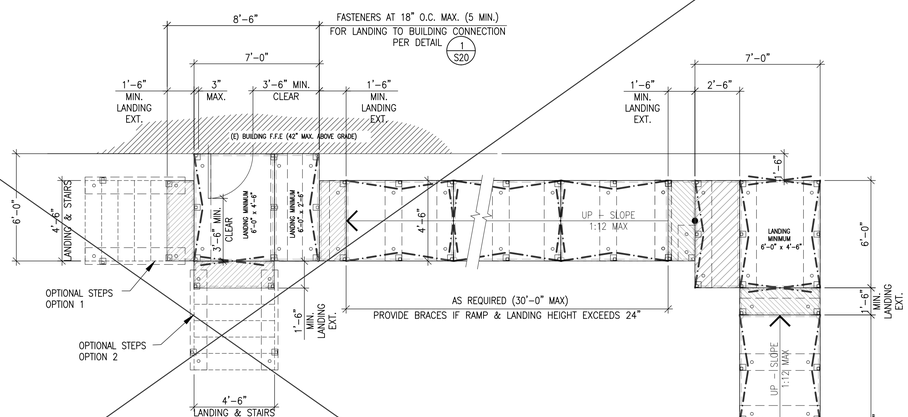
Scale: 1/4:1

OPTION "D" NOTES

1. SEE SHEET S4 & S5 FOR INFORMATION NOT PROVIDED HERE.
2. SEE PLANS TYPICAL PLANS 1/S4 & 1/S5 FOR PLAN INFORMATION NOT SHOWN HERE.
3. GUARDRAILS AND HANDRAILS ARE NOT SHOWN NOR INDICATED ON THIS PLAN FOR CLARITY. SEE 1/S4 & 1/S5 FOR GUARDRAIL AND HANDRAIL LOCATIONS AND POSITIONS.
4. WOOD SILL PLATES ARE SHOWN ONLY. SEE ALL APPLICABLE DETAILS ON SHEET 17 FOR ADDITIONAL INFORMATION.
5. SEE DETAILS 1/S19 & 2/S19 & 6/S19 FOR BASE PLATE ON CONCRETE BASE.
6. SEE DETAILS 3/S19 & 4/S19 & 8/S19 FOR BASE PLATE ON ASPHALT BASE.
7. SEE GENERAL NOTES #1 AND #15 FOR BRACING INFORMATION.
8. SEE DETAILS 1/S4 , 1/S5 , 1/S17 & 3/S17 FOR LANDING HEIGHT, MINIMUM GUARDRAIL HEIGHT AND STAIRS HEIGHT ABOVE FINISH FLOOR.

GENERAL NOTES

1. SEE SHEET S-1 FOR NOTES AND LEGEND.
2. SEE SHEETS S-9 THROUGH S-19 FOR TYPICAL & SPECIFIC DETAILS.
3. UNLESS NOTED OTHERWISE, ALL SILL PLATES SHALL BE CONNECTED TO EACH OTHER WITH GALVANIZED NAILS PER DETAILS.
4. UNLESS NOTED OTHERWISE, FOR MINIMUM SILL RESTRAINT: INSTALL 1" DIA. STANDARD (1.315"ø O.D.) SCHEDULE 40 GALVANIZED PIPE AT 10'-0" MAX., PROVIDE MINIMUM OF (2) PIPES PER FOUNDATION SILL PLATE. 12" PENETRATION BELOW SURFACE VERTICALLY. DRILL SILL 1/4" MAX. PIPE MAY BE DRIVEN MAX. OF 45° ANGLE TO VERTICAL. (24" LONG PIPE. REQUIRED FOR PENETRATION AT 45° ANGLE.)
5. ALL FOUNDATION PLATES SHALL BE PRESSURE TREATED D.F. #1 (BY OTHERS).
6. SILL PLATES SHALL NOT BE LESS THAN 2'-0" LONG UNLESS NOTED OTHERWISE.
7. NAILING- IN ACCORDANCE WITH TITLE 24 CCR- TABLE 2304.10.1. NAILS SHALL BE GALVANIZED COMMON NAILS.
8. CONTRACTOR SHALL FILED VERIFY ALL DIMENSIONS AND NOTIFY THE STRUCTURAL IF THERE ARE ANY DISCREPANCIES.
9. ALL DECKS, LANDINGS, AND FLAT SURFACES SHALL HAVE MAXIMUM 1:48 SLOPE IN ALL DIRECTION TO AVOID WATER ACCUMULATION ON TOP OF DECKS, LANDINGS, AND FLAT SURFACES.
10. GUARD RAILS AND/OR WALL ADJACENT TO HANDRAILS SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS OR EDGES.
11. SEE DETAIL 1/S15 & 1/S16 & 3/S16 FOR TYPICAL GUARD RAIL AND HANDRAIL ASSEMBLY.
12. SEE DETAIL 3/S20 FOR CHANGE IN ELEVATION.
13. RAMP, LANDING, STAIRS, AND GROUND SURFACES SHALL BE STABLE, FIRM, AND SLIP RESISTANT AND SHALL COMPLY WITH 11B-302, CBC SECTION 11B-302.1.
14. PROVIDE DIAGONAL BRACING ALL AROUND AND SIDES OF 4'-6" x 6'-0" LANDING PER DETAILS 2/S12 & 3/S12 .
15. RAMP BRACING REQUIRED EACH SIDE OF EACH RAMP/LANDING MODULE WHERE RAMP/LANDING HEIGHT EXCEEDS 20" PER DETAILS 1/S12 , 2/S12 & 3/S12 .
16. GUARDS SHALL NOT HAVE OPENINGS THAT ALLOW PASSAGE OF A SPHERE 4" IN DIAMETER.
17. LANDING ASSEMBLY TO BE SECURED TO THE BUILDING/TRAILER PER DETAIL 1/S20 .
18. FOR STAIRS PLAN, SECTION AND DETAILS SEE SHEET S17.

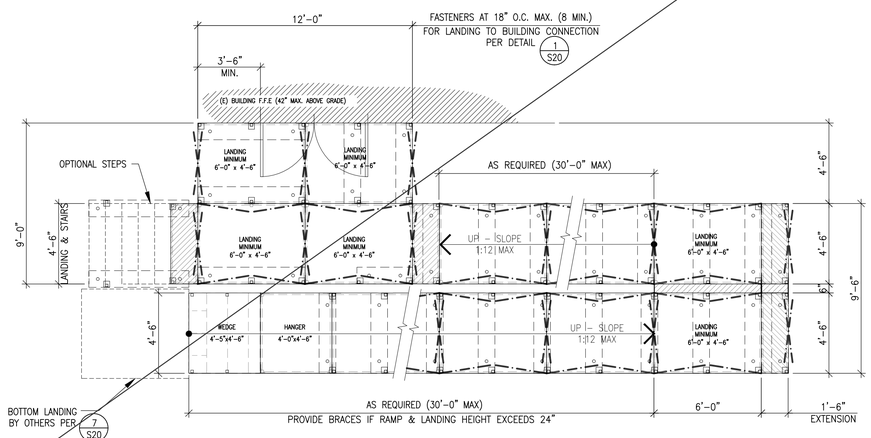


CONFIGURATION OPTION "D" (E)

Scale: 1/4:1

OPTION "E" NOTES

1. SEE SHEET S4 & S5 FOR INFORMATION NOT PROVIDED HERE.
2. SEE PLANS TYPICAL PLANS 1/S4 & 1/S5 FOR PLAN INFORMATION NOT SHOWN HERE.
3. GUARDRAILS AND HANDRAILS ARE NOT SHOWN NOR INDICATED ON THIS PLAN FOR CLARITY. SEE 1/S4 & 1/S5 FOR GUARDRAIL AND HANDRAIL LOCATIONS AND POSITIONS.
4. WOOD SILL PLATES ARE SHOWN ONLY. SEE ALL APPLICABLE DETAILS ON SHEET 17 FOR ADDITIONAL INFORMATION.
5. SEE DETAILS 1/S19 & 2/S19 & 6/S19 FOR BASE PLATE ON CONCRETE BASE.
6. SEE DETAILS 3/S19 & 4/S19 & 8/S19 FOR BASE PLATE ON ASPHALT BASE.
7. SEE GENERAL NOTES #1 AND #15 FOR BRACING INFORMATION.
8. SEE DETAILS 1/S4 , 1/S5 , 1/S17 & 3/S17 FOR LANDING HEIGHT, MINIMUM GUARDRAIL HEIGHT AND STAIRS HEIGHT ABOVE FINISH FLOOR.



CONFIGURATION OPTION "F" (F)

Scale: 1/4:1

OPTION "F" NOTES

1. SEE SHEET S4 & S5 FOR INFORMATION NOT PROVIDED HERE.
2. SEE PLANS TYPICAL PLANS 1/S4 & 1/S5 FOR PLAN INFORMATION NOT SHOWN HERE.
3. GUARDRAILS AND HANDRAILS ARE NOT SHOWN NOR INDICATED ON THIS PLAN FOR CLARITY. SEE 1/S4 & 1/S5 FOR GUARDRAIL AND HANDRAIL LOCATIONS AND POSITIONS.
4. WOOD SILL PLATES ARE SHOWN ONLY. SEE ALL APPLICABLE DETAILS ON SHEET 17 FOR ADDITIONAL INFORMATION.
5. SEE DETAILS 1/S19 & 2/S19 & 6/S19 FOR BASE PLATE ON CONCRETE BASE.
6. SEE DETAILS 3/S19 & 4/S19 & 8/S19 FOR BASE PLATE ON ASPHALT BASE.
7. SEE GENERAL NOTES #1 AND #15 FOR BRACING INFORMATION.
8. SEE DETAILS 1/S4 , 1/S5 , 1/S17 & 3/S17 FOR LANDING HEIGHT, MINIMUM GUARDRAIL HEIGHT AND STAIRS HEIGHT ABOVE FINISH FLOOR.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

NO.	REVISION	DATE
1.		
2.		
3.		

Quick-Deck Inc.
LOCUST, NC 28097
PHONE: 1(704)888-0327
EMAIL: drachi@quick-deck.com

REGISTERED PROFESSIONAL ENGINEER
MUHAMMAD R. HAFIZ
NO. 3545
MRH STRUCTURAL ENGINEERS
STATE OF CALIFORNIA
11/01/2023

M.R.H. STRUCTURAL ENGINEERS
3400 IRVINE AVE., STE. 101
NEWPORT BEACH, CA 92660
(714) 434-8000
MRH@MRHSE.COM

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122493 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 11/01/2023

DIVISION OF THE STATE ARCHITECTS

SHEET TITLE: PLANS AND TYPICAL RAMP/LANDING CONFIGURATION OPTIONS

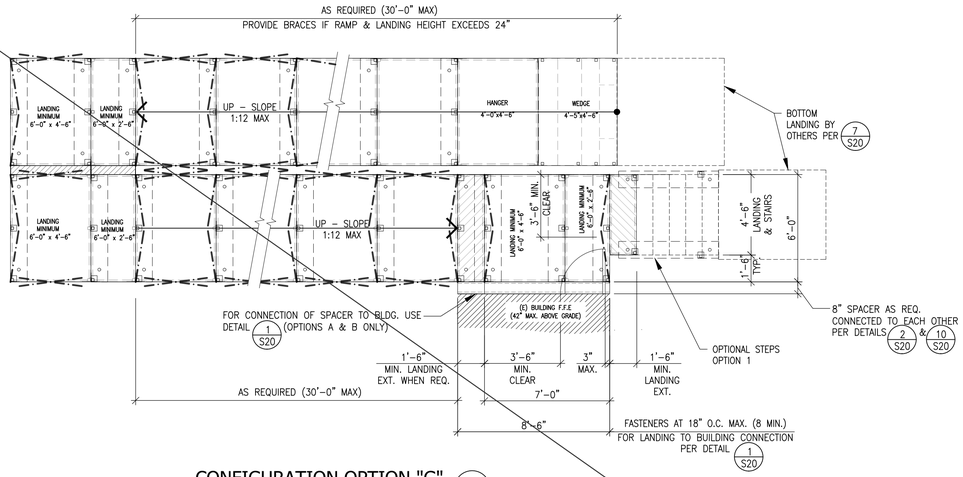
DATE	05/22/2023
JOB NO.	23131
FILENAME	DSA 2023 DRAWING (MRH)
REV.	
DRAWN BY	
APPROVED BY	MH
SCALE	N.T.S.
PLOT DATE	11/01/2023
SHEET NUMBER	S7

7 of 20

PLOT DATE: November 1, 2023

THESE DRAWINGS AND THE MATERIAL CONTAINED HEREIN ARE PROPERTY OF MRH, STRUCTURAL ENGINEERS AND SHALL NOT BE PRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OR THE FURNISHING OF ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE CONSENT OF MRH, STRUCTURAL ENGINEERS. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATED WITH MRH, STRUCTURAL ENGINEERS, SHALL BE THE PROPERTY OF MRH, STRUCTURAL ENGINEERS.

© MRH, STRUCTURAL ENGINEERS, 2023, ALL RIGHTS RESERVED



CONFIGURATION OPTION "G" G

Scale: 1/4:1

OPTION "G" NOTES

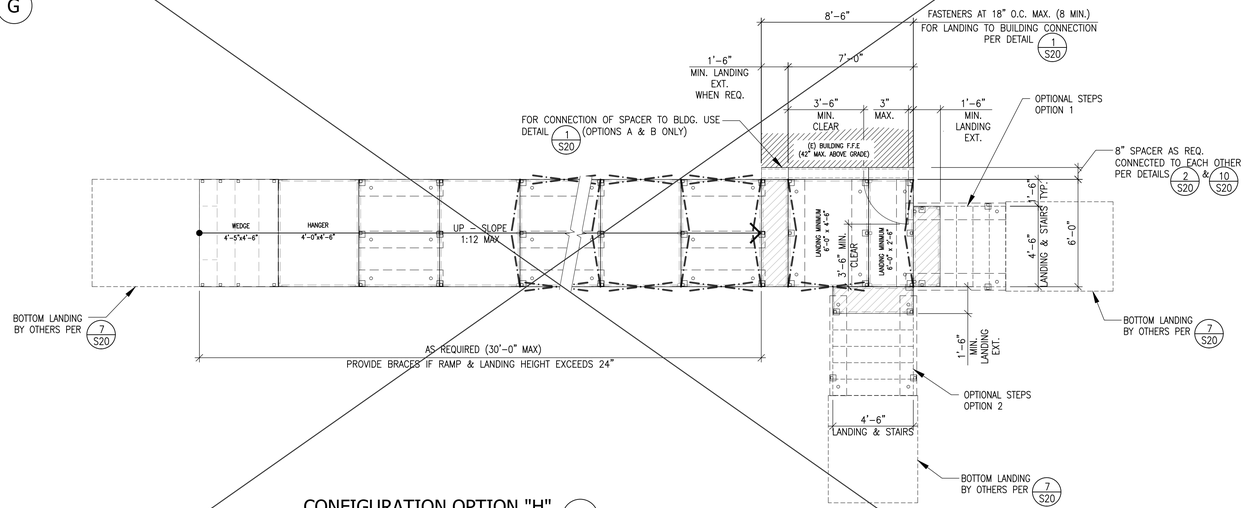
1. SEE SHEET S4 & S5 FOR INFORMATION NOT PROVIDED HERE.
2. SEE PLANS TYPICAL PLANS 1/S4 & 1/S5 FOR PLAN INFORMATION NOT SHOWN HERE.
3. GUARDRAILS AND HANDRAILS ARE NOT SHOWN NOR INDICATED ON THIS PLAN FOR CLARITY. SEE 1/S4 & 1/S5 FOR GUARDRAIL AND HANDRAIL LOCATIONS AND POSITIONS.
4. WOOD SILL PLATES ARE SHOWN ONLY. SEE ALL APPLICABLE DETAILS ON SHEET 17 FOR ADDITIONAL INFORMATION.
5. SEE DETAILS 1/S19 & 2/S19 & 6/S19 FOR BASE PLATE ON CONCRETE BASE.
6. SEE DETAILS 3/S19 & 4/S19 & 8/S19 FOR BASE PLATE ON ASPHALT BASE.
7. SEE GENERAL NOTES #1 AND #15 FOR BRACING INFORMATION.
8. SEE DETAILS 1/S4 , 1/S5 , 1/S17 & 3/S17 FOR LANDING HEIGHT, MINIMUM GUARDRAIL HEIGHT AND STAIRS HEIGHT ABOVE FINISH FLOOR.

GENERAL NOTES

1. SEE SHEET S-1 FOR NOTES AND LEGEND.
2. SEE SHEETS S-9 THROUGH S-19 FOR TYPICAL & SPECIFIC DETAILS.
3. UNLESS NOTED OTHERWISE, ALL SILL PLATES SHALL BE CONNECTED TO EACH OTHER WITH GALVANIZED NAILS PER DETAILS.
4. UNLESS NOTED OTHERWISE, FOR MINIMUM SILL RESTRAINT: INSTALL 1" DIA. STANDARD (1.315"ø O.D.) SCHEDULE 40 GALVANIZED PIPE AT 10'-0" MAX., PROVIDE MINIMUM OF (2) PIPES PER FOUNDATION SILL PLATE. 12" PENETRATION BELOW SURFACE VERTICALLY. DRILL SILL 1¼" MAX. PIPE MAY BE DRIVEN MAX. OF 45° ANGLE TO VERTICAL. (24" LONG PIPE. REQUIRED FOR PENETRATION AT 45° ANGLE.)
5. ALL FOUNDATION PLATES SHALL BE PRESSURE TREATED D.F. #1 (BY OTHERS).
6. SILL PLATES SHALL NOT BE LESS THAN 2'-0" LONG UNLESS NOTED OTHERWISE.
7. NAILING- IN ACCORDANCE WITH TITLE 24 CCR- TABLE 2304.10.1. NAILS SHALL BE GALVANIZED COMMON NAILS.
8. CONTRACTOR SHALL FILED VERIFY ALL DIMENSIONS AND NOTIFY THE STRUCTURAL IF THERE ARE ANY DISCREPANCIES.
9. ALL DECKS, LANDINGS, AND FLAT SURFACES SHALL HAVE MAXIMUM 1:48 SLOPE IN ALL DIRECTION TO AVOID WATER ACCUMULATION ON TOP OF DECKS, LANDINGS, AND FLAT SURFACES.
10. GUARD RAILS AND/OR WALL ADJACENT TO HANDRAILS SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS OR EDGES.
11. SEE DETAIL 1/S15 & 1/S16 & 3/S16 FOR TYPICAL GUARD RAIL AND HANDRAIL ASSEMBLY.
12. SEE DETAIL 3/S20 FOR CHANGE IN ELEVATION.
13. RAMP, LANDING, STAIRS, AND GROUND SURFACES SHALL BE STABLE, FIRM, AND SLIP RESISTANT AND SHALL COMPLY WITH 11B-302, CBC SECTION 11B-302.1.
14. PROVIDE DIAGONAL BRACING ALL AROUND AND SIDES OF 4'-6" x 6'-0" LANDING PER DETAILS 2/S12 & 3/S12 .
15. RAMP BRACING REQUIRED EACH SIDE OF EACH RAMP/LANDING MODULE WHERE RAMP/LANDING HEIGHT EXCEEDS 20" PER DETAILS 1/S12 , 2/S12 & 3/S12 .
16. GUARDS SHALL NOT HAVE OPENINGS THAT ALLOW PASSAGE OF A SPHERE 4" IN DIAMETER.
17. LANDING ASSEMBLY TO BE SECURED TO THE BUILDING/TRAILER PER DETAIL 1/S20 .
18. FOR STAIRS PLAN, SECTION AND DETAILS SEE SHEET S17.

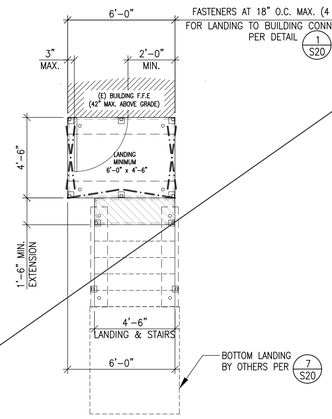
OPTION "H" NOTES

1. SEE SHEET S4 & S5 FOR INFORMATION NOT PROVIDED HERE.
2. SEE PLANS TYPICAL PLANS 1/S4 & 1/S5 FOR PLAN INFORMATION NOT SHOWN HERE.
3. GUARDRAILS AND HANDRAILS ARE NOT SHOWN NOR INDICATED ON THIS PLAN FOR CLARITY. SEE 1/S4 & 1/S5 FOR GUARDRAIL AND HANDRAIL LOCATIONS AND POSITIONS.
4. WOOD SILL PLATES ARE SHOWN ONLY. SEE ALL APPLICABLE DETAILS ON SHEET 17 FOR ADDITIONAL INFORMATION.
5. SEE DETAILS 1/S19 & 2/S19 & 6/S19 FOR BASE PLATE ON CONCRETE BASE.
6. SEE DETAILS 3/S19 & 4/S19 & 8/S19 FOR BASE PLATE ON ASPHALT BASE.
7. SEE GENERAL NOTES #1 AND #15 FOR BRACING INFORMATION.
8. SEE DETAILS 1/S4 , 1/S5 , 1/S17 & 3/S17 FOR LANDING HEIGHT, MINIMUM GUARDRAIL HEIGHT AND STAIRS HEIGHT ABOVE FINISH FLOOR.



CONFIGURATION OPTION "H" H

Scale: 1/4:1



OPTION "I" NOTES

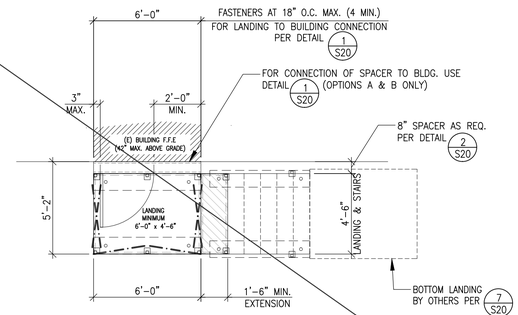
1. SEE SHEET S4 & S5 FOR INFORMATION NOT PROVIDED HERE.
2. SEE PLANS TYPICAL PLANS 1/S4 & 1/S5 FOR PLAN INFORMATION NOT SHOWN HERE.
3. GUARDRAILS AND HANDRAILS ARE NOT SHOWN NOR INDICATED ON THIS PLAN FOR CLARITY. SEE 1/S4 & 1/S5 FOR GUARDRAIL AND HANDRAIL LOCATIONS AND POSITIONS.
4. WOOD SILL PLATES ARE SHOWN ONLY. SEE ALL APPLICABLE DETAILS ON SHEET 17 FOR ADDITIONAL INFORMATION.
5. SEE DETAILS 1/S19 & 2/S19 & 6/S19 FOR BASE PLATE ON CONCRETE BASE.
6. SEE DETAILS 3/S19 & 4/S19 & 8/S19 FOR BASE PLATE ON ASPHALT BASE.
7. SEE GENERAL NOTES #1 AND #15 FOR BRACING INFORMATION.
8. SEE DETAILS 1/S4 , 1/S5 , 1/S17 & 3/S17 FOR LANDING HEIGHT, MINIMUM GUARDRAIL HEIGHT AND STAIRS HEIGHT ABOVE FINISH FLOOR.

CONFIGURATION OPTION "I" I

Scale: 1/4:1

OPTION "J" NOTES

1. SEE SHEET S4 & S5 FOR INFORMATION NOT PROVIDED HERE.
2. SEE PLANS TYPICAL PLANS 1/S4 & 1/S5 FOR PLAN INFORMATION NOT SHOWN HERE.
3. GUARDRAILS AND HANDRAILS ARE NOT SHOWN NOR INDICATED ON THIS PLAN FOR CLARITY. SEE 1/S4 & 1/S5 FOR GUARDRAIL AND HANDRAIL LOCATIONS AND POSITIONS.
4. WOOD SILL PLATES ARE SHOWN ONLY. SEE ALL APPLICABLE DETAILS ON SHEET 17 FOR ADDITIONAL INFORMATION.
5. SEE DETAILS 1/S19 & 2/S19 & 6/S19 FOR BASE PLATE ON CONCRETE BASE.
6. SEE DETAILS 3/S19 & 4/S19 & 8/S19 FOR BASE PLATE ON ASPHALT BASE.
7. SEE GENERAL NOTES #1 AND #15 FOR BRACING INFORMATION.
8. SEE DETAILS 1/S4 , 1/S5 , 1/S17 & 3/S17 FOR LANDING HEIGHT, MINIMUM GUARDRAIL HEIGHT AND STAIRS HEIGHT ABOVE FINISH FLOOR.



CONFIGURATION OPTION "J" J

Scale: 1/4:1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

NO.	REVISION	DATE
1.		
2.		
3.		
4.		

Quick-Deck Inc.
LOCUST, NC 28097
PHONE: 1(704)888-0327
EMAIL: drachi@quick-deck.com

REGISTERED PROFESSIONAL ENGINEER
MUHAMMAD R. HAFIZ
No. 3545
STRUCTURAL
STATE OF CALIFORNIA
11/01/2023

M.R.H. STRUCTURAL ENGINEERS
3400 IRVINE AVE., STE. 101
NEWPORT BEACH, CA 92660
(714) 444-8000
MRH@MRHSE.COM

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122493 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 11/01/2023

DIVISION OF THE STATE ARCHITECTS

SHEET TITLE: PLANS AND TYPICAL RAMP/LANDING CONFIGURATION OPTIONS

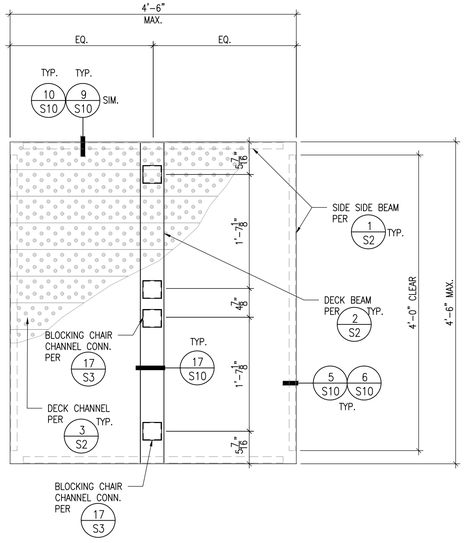
DATE	05/22/2023
JOB NO.	23131
FILENAME	DSA 2023 DRAWING (MRH)
REV.	
DRAWN BY	
APPROVED BY	MH
SCALE	N.T.S.
PLOT DATE	11/01/2023
SHEET NUMBER	S8

8 of 20

PLOT DATE: November 1, 2023

THESE DRAWINGS AND THE MATERIAL CONTAINED HEREIN ARE PROPERTY OF MRH, STRUCTURAL ENGINEERS AND SHALL NOT BE PRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OR THE FURNISHING OF ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE CONSENT OF MRH, STRUCTURAL ENGINEERS. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATED WITH MRH, STRUCTURAL ENGINEERS, SHALL BE THE PROPERTY OF MRH, STRUCTURAL ENGINEERS.

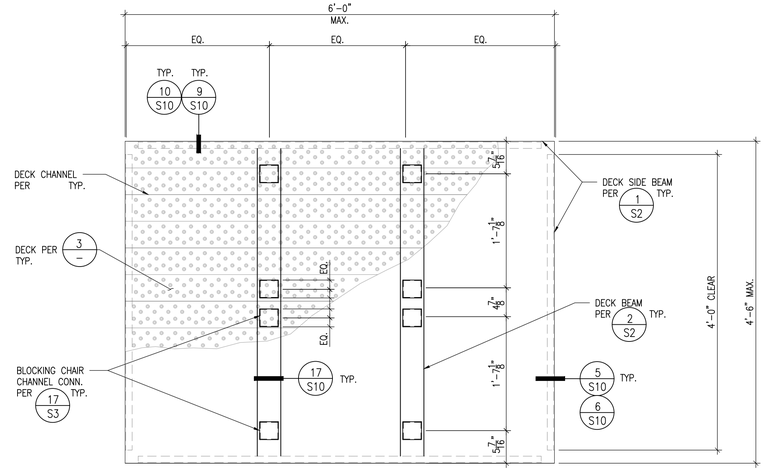
© MRH, STRUCTURAL ENGINEERS, 2023, ALL RIGHTS RESERVED



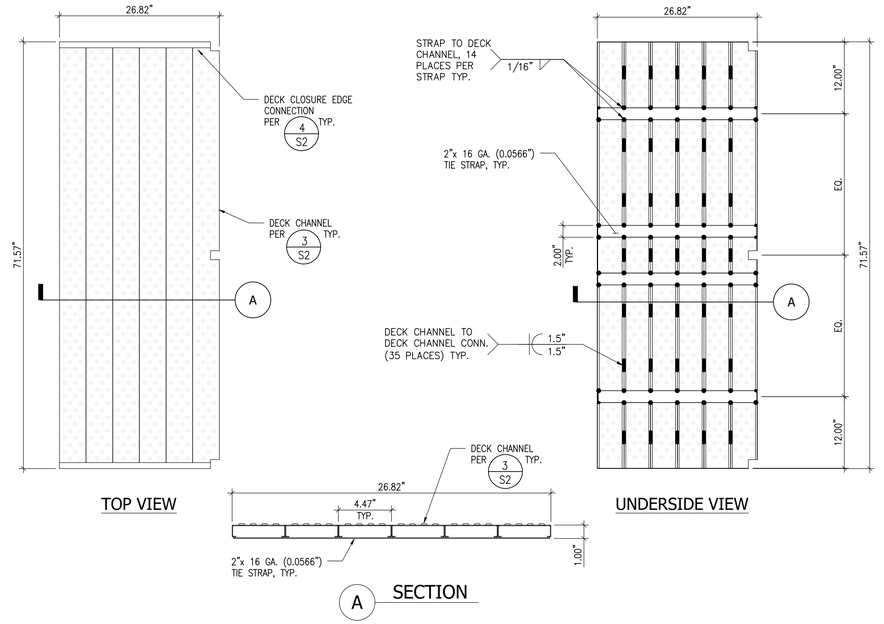
NOTES:

SEE DETAIL 11/– FOR INFORMATION NOT SHOWN.

TYP. HANGER (4'-6" x 4'-6" FRAME) 19



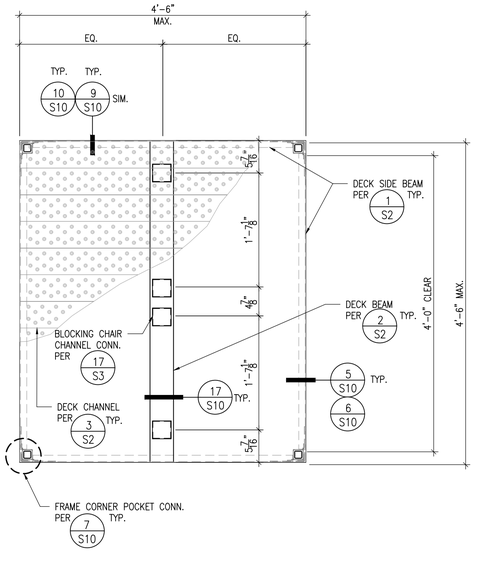
TYP. HANGER (6'-0" x 4'-6" FRAME) 11



NOTE:

1. ALL LANDINGS AND FLAT SURFACES SHALL BE NON–SKID SLOPPED TO DRAIN WATER AND AVOID ACCUMULATION ON TOP OF DECK SURFACE.
2. ALL LANDINGS AND FLAT SURFACES SHALL HAVE MAXIMUM 1:48 SLOPE IN ALL DIRECTION.

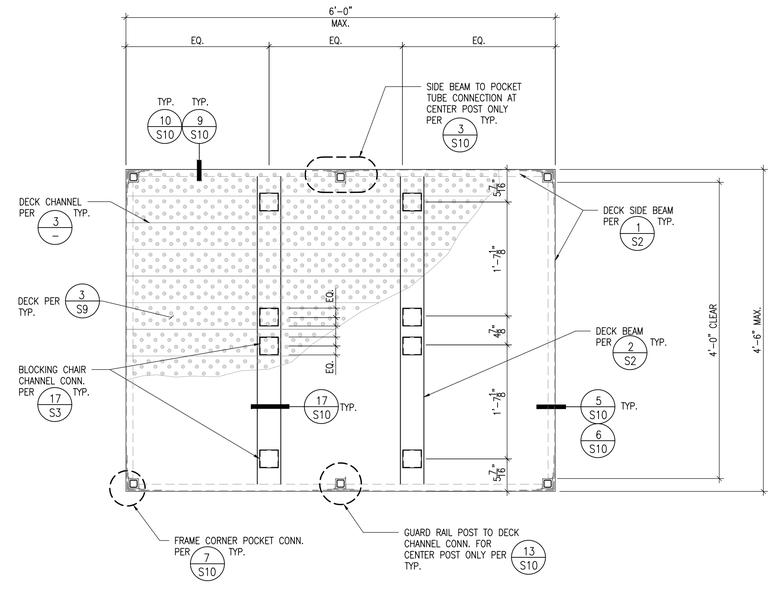
DECK CHANNEL CONNECTION DETAIL 3



NOTES:

SEE DETAIL 9/– FOR INFORMATION NOT SHOWN.

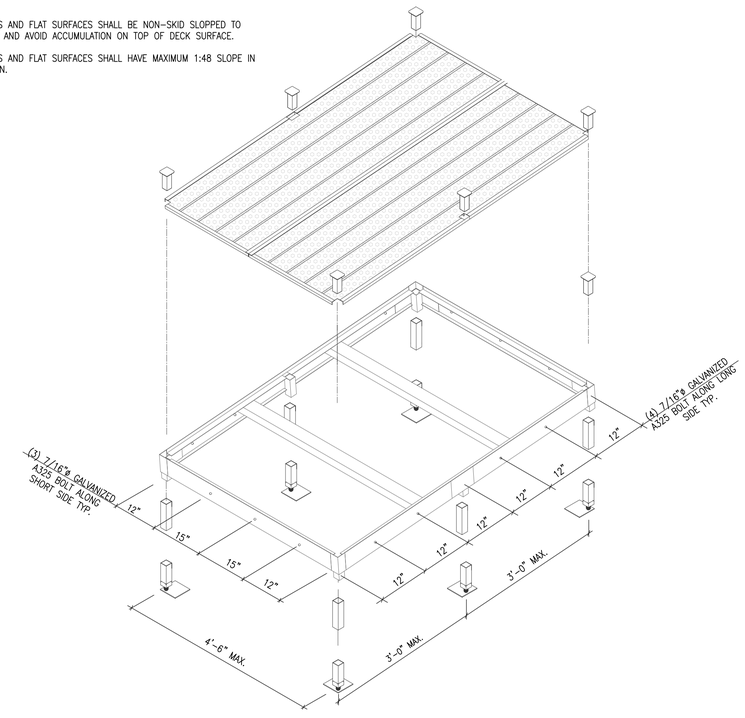
TYP. 4'-6" x 4'-6" FRAME (RAMP AND LANDING) 17



NOTES:

1. ALL LANDINGS AND FLAT SURFACES SHALL BE NON–SKID SLOPPED TO DRAIN WATER AND AVOID ACCUMULATION ON TOP OF DECK SURFACE.
2. ALL LANDINGS AND FLAT SURFACES SHALL HAVE MAXIMUM 1:48 SLOPE IN ALL DIRECTION TO AVOID WATER ACCUMULATION ON TOP OF DECK OR FLAT SURFACE.

TYP. 4'-6" x 6'-0" FRAME (RAMP AND LANDING) 9



RAMP/ LANDING AXONOMETRIC 1

THESE DRAWINGS AND THE MATERIAL CONTAINED HEREIN ARE PROPERTY OF MRH, STRUCTURAL ENGINEERS AND SHALL NOT BE PRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OR THE FURNISHING OF ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE CONSENT OF MRH, STRUCTURAL ENGINEERS. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATED WITH MRH, STRUCTURAL ENGINEERS, SHALL BE THE PROPERTY OF MRH, STRUCTURAL ENGINEERS.
© MRH, STRUCTURAL ENGINEERS, 2023, ALL RIGHTS RESERVED

PLOT DATE: November 1, 2023

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

NO.	REVISION	DATE
1.		
2.		
3.		

Quick Deck Inc.
LOCUST, NC 28097
PHONE: 1(704)888-0327
EMAIL: drachi@quick-deck.com

REGISTERED PROFESSIONAL ENGINEER
MUHAMMAD R. HAFIZ
No. 3545
MRH STRUCTURAL ENGINEERS
STATE OF CALIFORNIA
11/01/2023

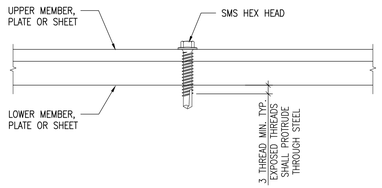
M.R.H. STRUCTURAL ENGINEERS
3400 IRVINE AVE., STE. 101
NEWPORT BEACH, CA 92660
(714) 444-8300
MRH@MRHSE.COM

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122493 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 11/01/2023

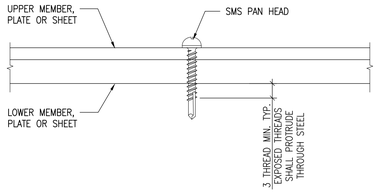
DIVISION OF THE STATE ARCHITECTS

SHEET TITLE: RAMP AND HANGER PLANS AND DECK DETAILS

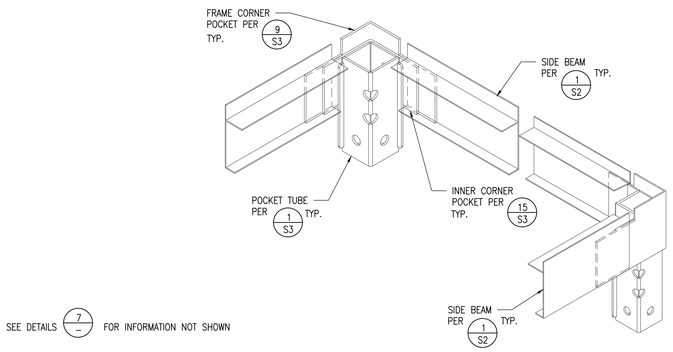
DATE	05/22/2023
JOB NO.	23131
FILENAME	DSA 2023 DRAWING (MRH)
REV.	
DRAWN BY	
APPROVED BY	MH
SCALE	N.T.S.
PLOT DATE	11/01/2023
SHEET NUMBER	S9



TYP. HEX HEAD SCREW MIN. THREAD PROJECTION 20

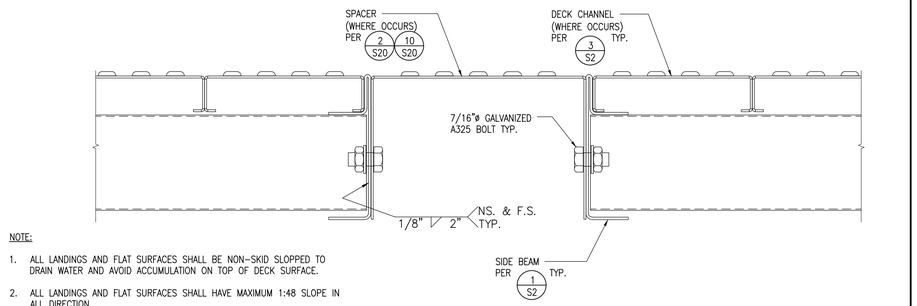


TYP. PAN HEAD SCREW MIN. THREAD PROJECTION 16

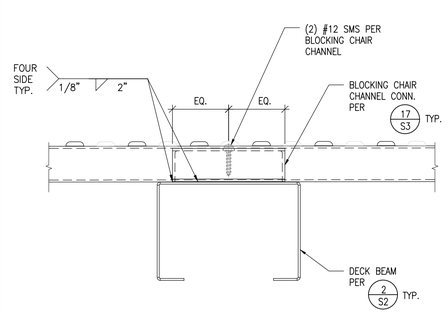


TYP. FRAME CORNER POCKET CONNECTION 8

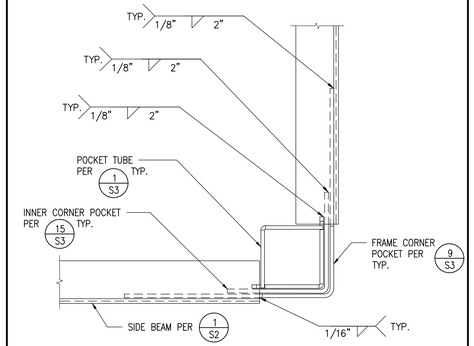
NOT USED 4



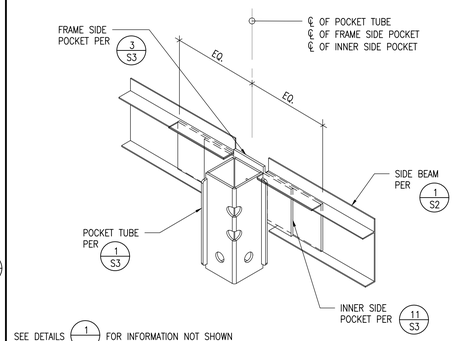
TYP. DECK BM. TO SIDE BM. CONN. W/ SPACER 15



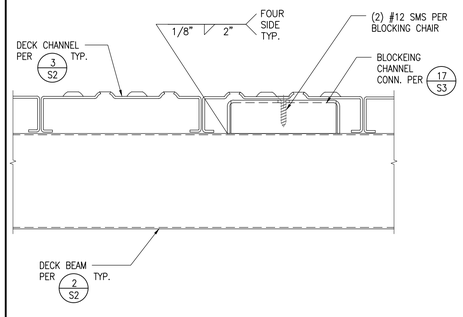
TYP. DECK CHANNEL TO DECK BEAM CONN. 11



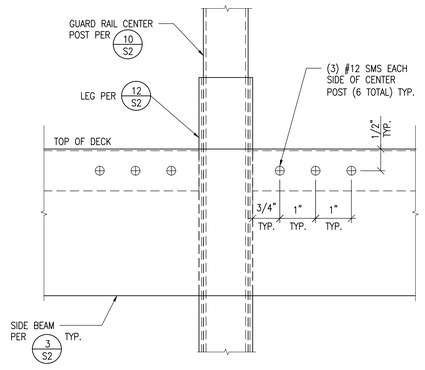
TYP. FRAME CORNER POCKET CONN. 7

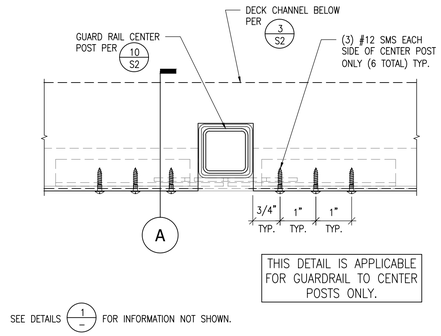


TYP. SIDE BEAM TO POCKET TUBE CONN. 3

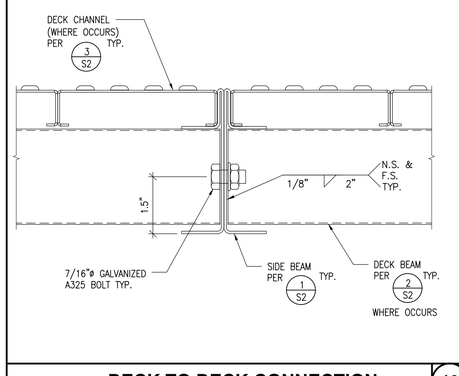


TYP. BLOCKING CHANNEL CONNECTION 18

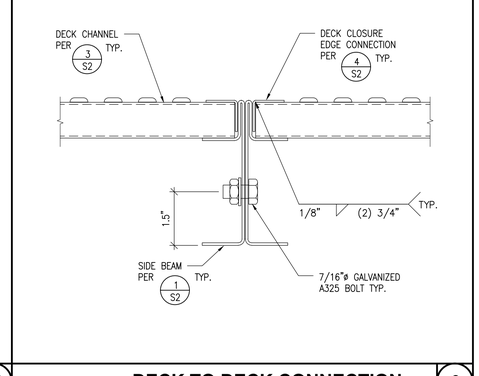




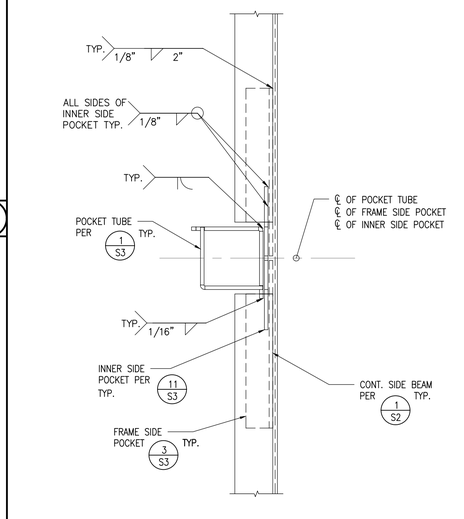
TYP. DECK CHANNEL TO GUARDRAIL POST CONN. 13



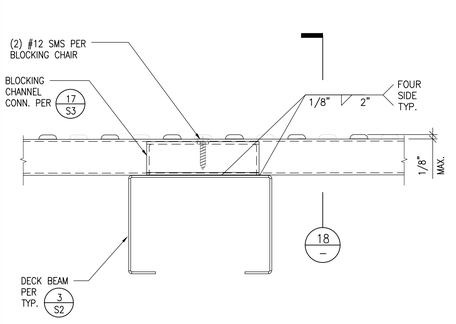
DECK TO DECK CONNECTION 10



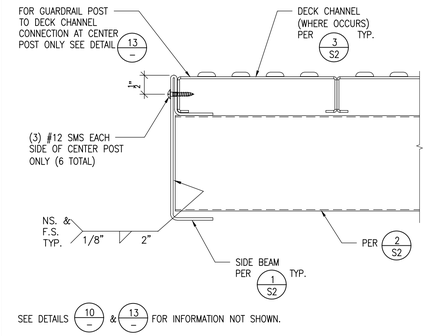
DECK TO DECK CONNECTION 6



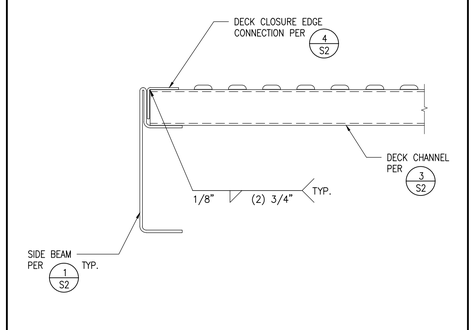
TYP. SIDE BEAM TO POCKET TUBE CONN. 1



TYP. BLOCKING CHANNEL CONNECTION 17



TYP. DECK BEAM TO SIDE BEAM CONN. 9



TYP. DECK CHANNEL TO SIDE BEAM CONN. 5

TYP. SIDE BEAM TO POCKET TUBE CONN. 1

PLOT DATE: November 1, 2023

THESE DRAWINGS AND THE MATERIAL CONTAINED HEREIN ARE PROPERTY OF MRH, STRUCTURAL ENGINEERS AND SHALL NOT BE PRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OR THE FURNISHING OF ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE CONSENT OF MRH, STRUCTURAL ENGINEERS. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATED WITH MRH, STRUCTURAL ENGINEERS, SHALL BE THE PROPERTY OF MRH, STRUCTURAL ENGINEERS.
© MRH, STRUCTURAL ENGINEERS, 2023, ALL RIGHTS RESERVED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

NO.	REVISION	DATE
3		
2		
1		

Quick Deck Inc.
LOCUST, NC 28097
PHONE: 1(704)888-0327
EMAIL: drachi@quick-deck.com

REGISTERED PROFESSIONAL ENGINEER
MUHAMMAD R. HAFIZ
NO. 3545
MRH
STRUCTURAL
STATE OF CALIFORNIA
11/01/2023

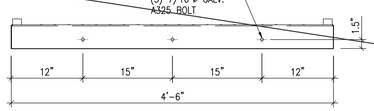
M.R.H. STRUCTURAL ENGINEERS
3400 IRVINE AVE., STE. 101
NEWPORT BEACH, CA 92660
(714) 444-8202
MRH@MRHSE.COM

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122493 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 11/01/2023

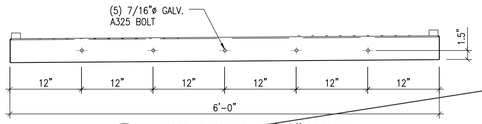
DIVISION OF THE STATE ARCHITECTS

SHEET TITLE: RAMP AND LANDING DETAILS

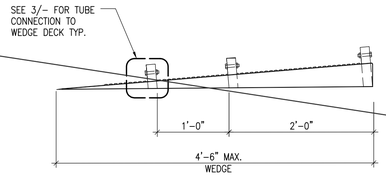
DATE	05/22/2023
JOB NO.	23131
FILENAME	DSA 2023 DRAWING (MRH)
REV.	
DRAWN BY	
APPROVED BY	MH
SCALE	N.T.S.
PLOT DATE	11/01/2023
SHEET NUMBER	S10



C END VIEW - 4'-6" WIDE



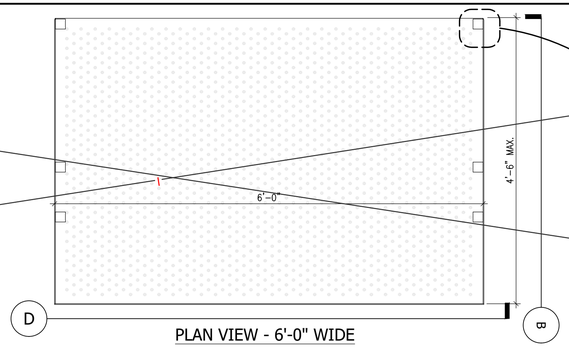
D END VIEW - 6'-0" WIDE



B SIDE VIEW

NOTE:

1. ALL LANDINGS AND FLAT SURFACES SHALL BE NON-SKID SLOPPED TO DRAIN WATER AND AVOID ACCUMULATION ON TOP OF DECK SURFACE.
2. ALL LANDINGS AND FLAT SURFACES SHALL HAVE MAXIMUM 1:48 SLOPE IN ALL DIRECTION.
3. SEE DETAILS 1/– & 2/– FOR INFORMATION NOT SHOWN.

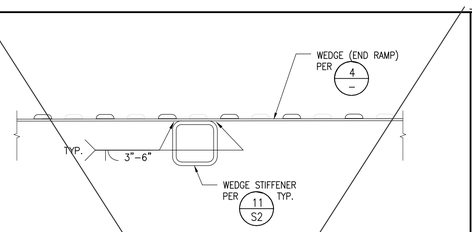


D PLAN VIEW - 6'-0" WIDE

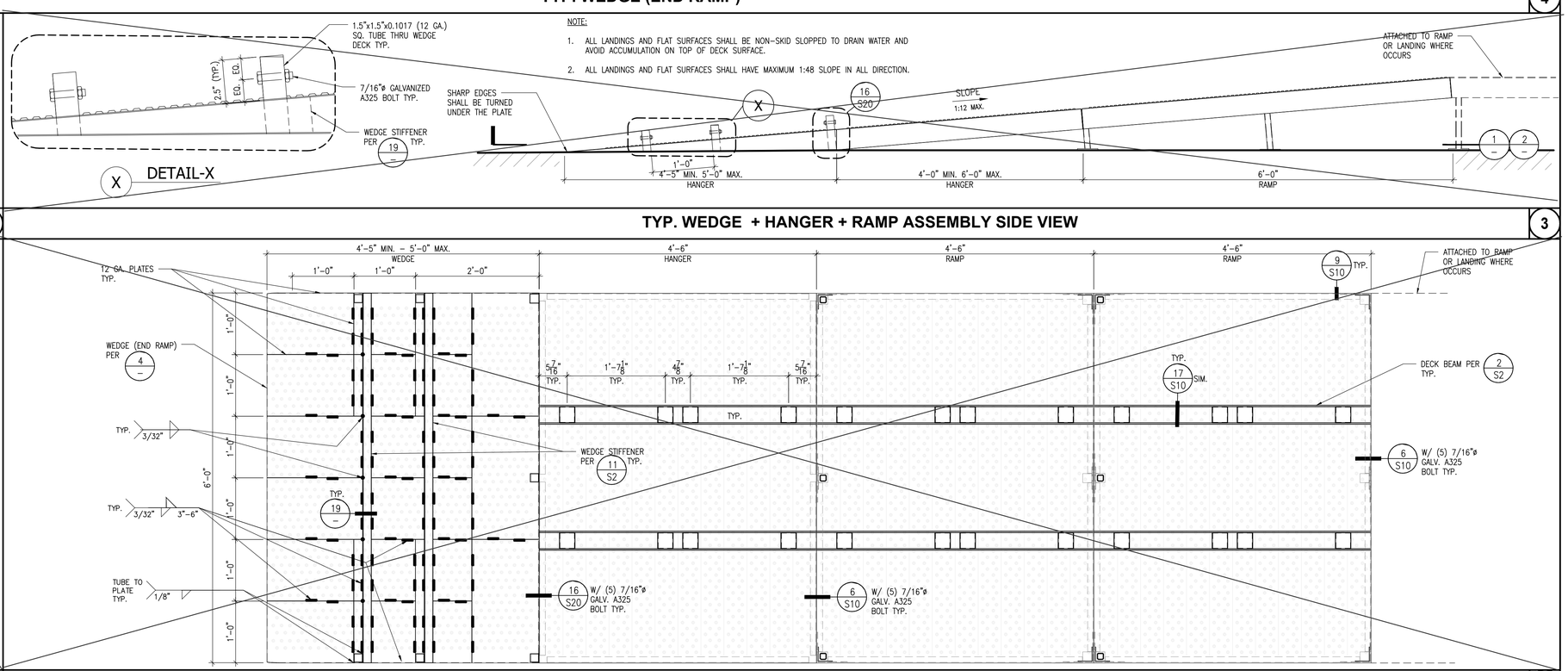
C PLAN VIEW - 4'-6" WIDE

B

TYP. WEDGE (END RAMP) 4



TYP. WEDGE STIFFENER CONNECTION 19

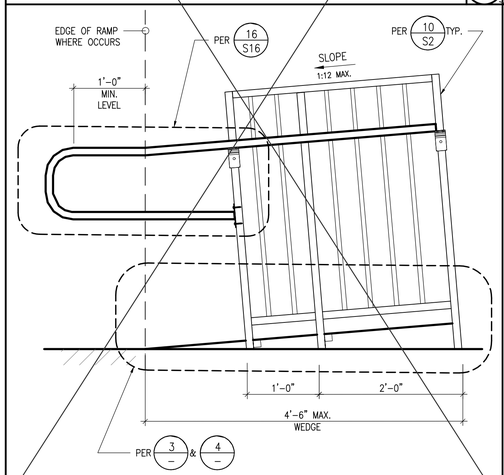


X DETAIL-X

NOTE:

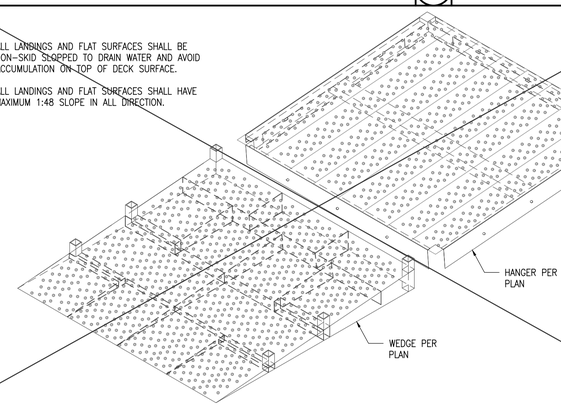
1. ALL LANDINGS AND FLAT SURFACES SHALL BE NON-SKID SLOPPED TO DRAIN WATER AND AVOID ACCUMULATION ON TOP OF DECK SURFACE.
2. ALL LANDINGS AND FLAT SURFACES SHALL HAVE MAXIMUM 1:48 SLOPE IN ALL DIRECTION.

TYP. WEDGE + HANGER + RAMP ASSEMBLY SIDE VIEW 3

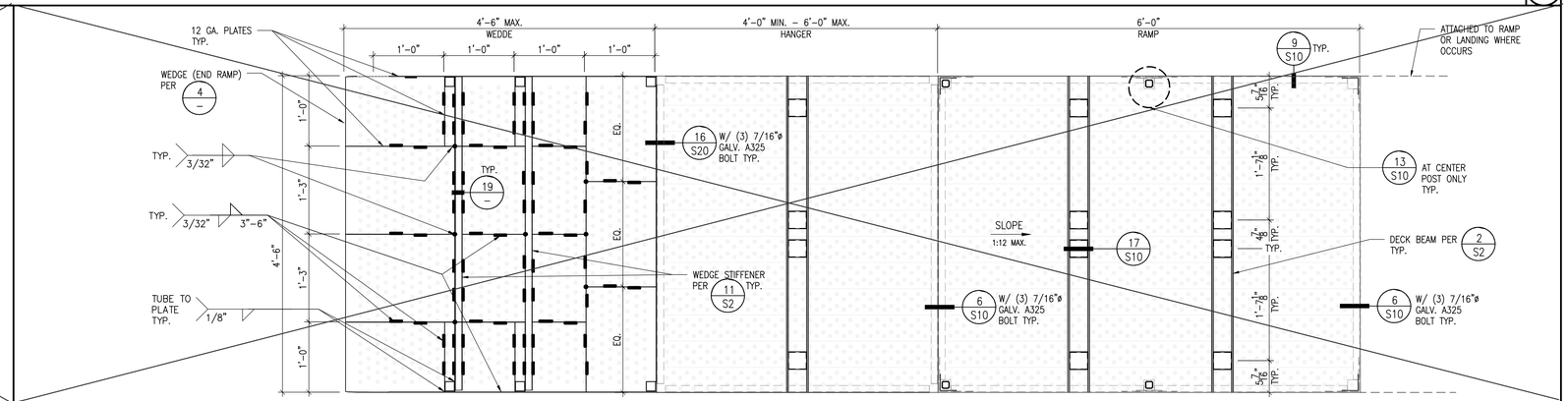


TYP. HANDRAIL ELEVATION AT WEDGE 18

TYP. WEDGE + HANGER + RAMP ASSEMBLY UNDERSIDE VIEW 2



WEDGE + HANGER (END RAMP) ASSEMBLY AXONOMETRIC VIEW 13



TYP. WEDGE + HANGER + RAMP ASSEMBLY UNDERSIDE VIEW 1

PLOT DATE: November 1, 2023

THESE DRAWINGS AND THE MATERIAL CONTAINED HEREIN ARE PROPERTY OF MRH, STRUCTURAL ENGINEERS AND SHALL NOT BE PRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OR THE FURNISHING OF ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE CONSENT OF MRH, STRUCTURAL ENGINEERS. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATED WITH MRH, STRUCTURAL ENGINEERS, SHALL BE THE PROPERTY OF MRH, STRUCTURAL ENGINEERS.

© MRH, STRUCTURAL ENGINEERS, 2023, ALL RIGHTS RESERVED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

NO.	REVISION	DATE
3		
2		
1		

Quick-Deck Inc.
LOCUST, NC 28097
PHONE: 1(704)888-0327
EMAIL: drachi@quick-deck.com

REGISTERED PROFESSIONAL ENGINEER
MUHAMMAD R. HAFIZ
No. 3545
STRUCTURAL
STATE OF CALIFORNIA
11/01/2023

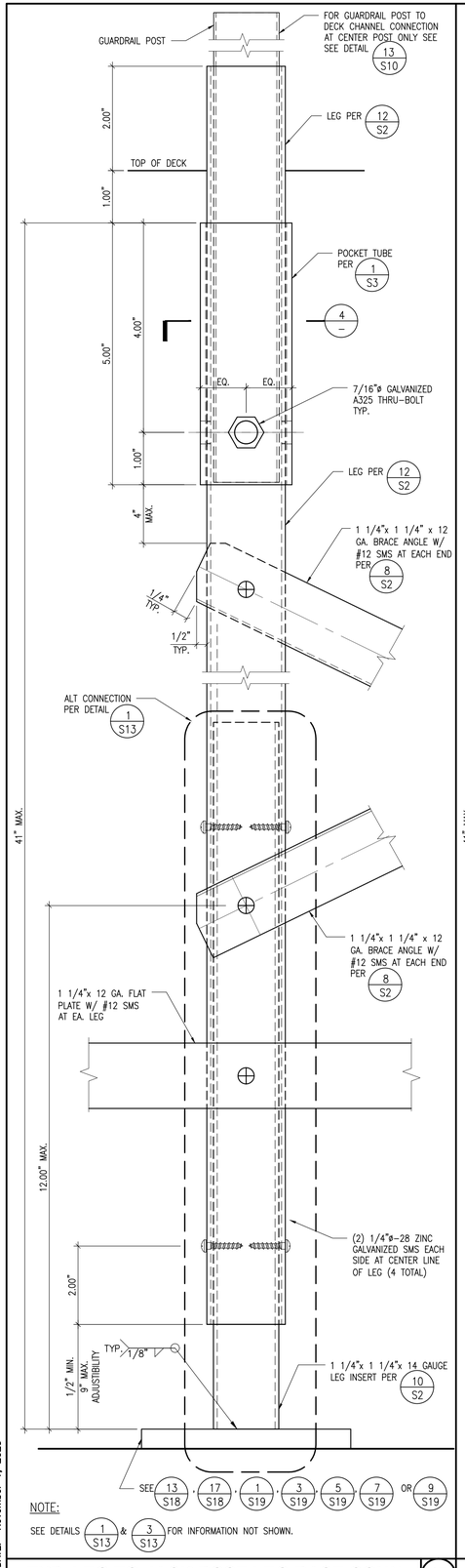
M.R.H. STRUCTURAL ENGINEERS
3400 IRVINE AVE., STE. 101
NEWPORT BEACH, CA 92660
(714) 444-8700
MRH@MRHSE.COM

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122493 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 11/01/2023

DIVISION OF THE STATE ARCHITECTS

SHEET TITLE: WEDGE, HANGER AND RAMP ASSEMBLY PLANS AND DETAILS

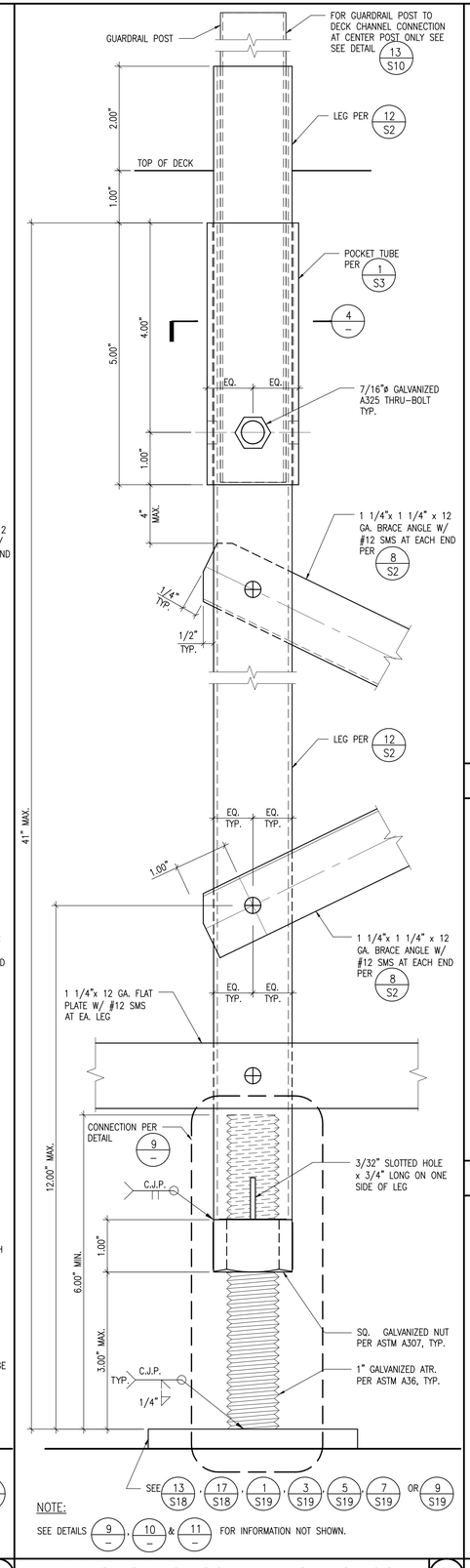
DATE	05/22/2023
JOB NO.	23131
FILENAME	DSA 2023 DRAWING (MRH)
REV.	
DRAWN BY	
APPROVED BY	MH
SCALE	N.T.S.
PLOT DATE	11/01/2023
SHEET NUMBER	S11



NOTE:

SEE DETAILS 1 – S13 & 3 – S13 FOR INFORMATION NOT SHOWN.

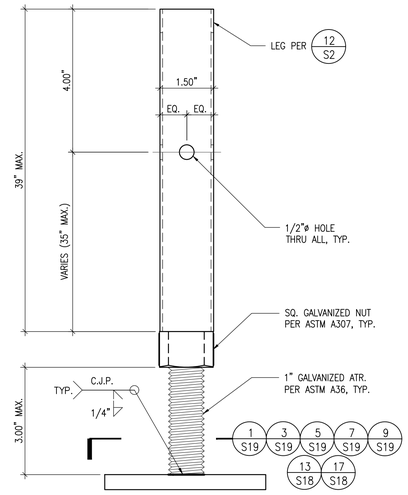
TYP. LEG TO JACK POST LEG BASE CONN. 17



NOTE:

SEE DETAILS 9 – , 10 – & 11 – FOR INFORMATION NOT SHOWN.

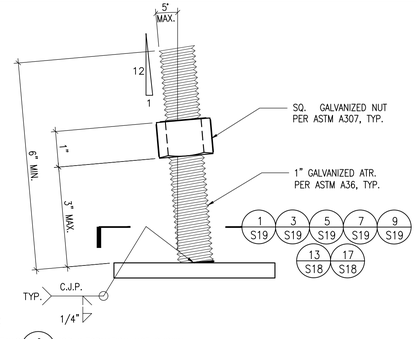
TYP. LEG TO JACK SCREW LEG BASE CONN. 13



NOTE:

SEE DETAILS 9 – , 10 – & 13 – FOR INFORMATION NOT SHOWN.

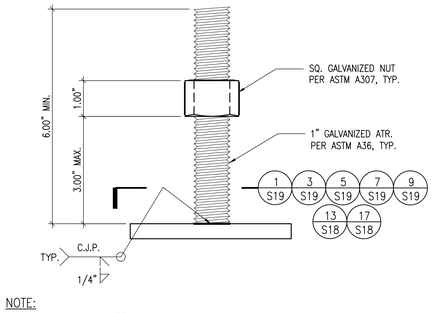
TYP. JACK SCREW LEG DETAIL 11



NOTE:

SEE DETAILS 9 – FOR INFORMATION NOT SHOWN.

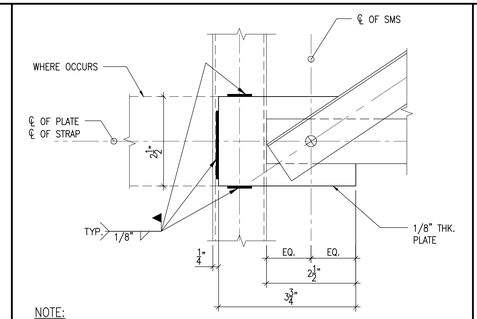
TYP. JACK SCREW LEG BASE DETAIL 10



NOTE:

SEE DETAILS 9 – , 11 – & 13 – FOR INFORMATION NOT SHOWN.

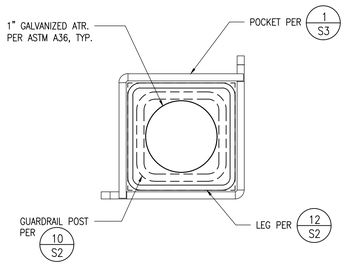
TYP. JACK SCREW LEG BASE DETAIL 9



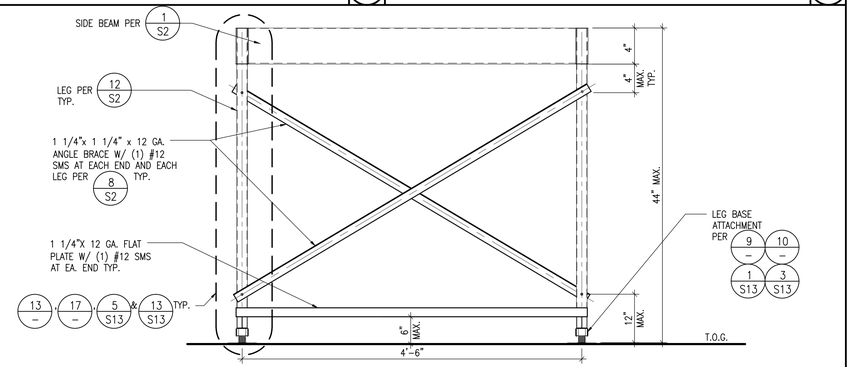
NOTE:

SEE DETAILS 1 – , 2 – & 3 – FOR INFORMATION NOT SHOWN.

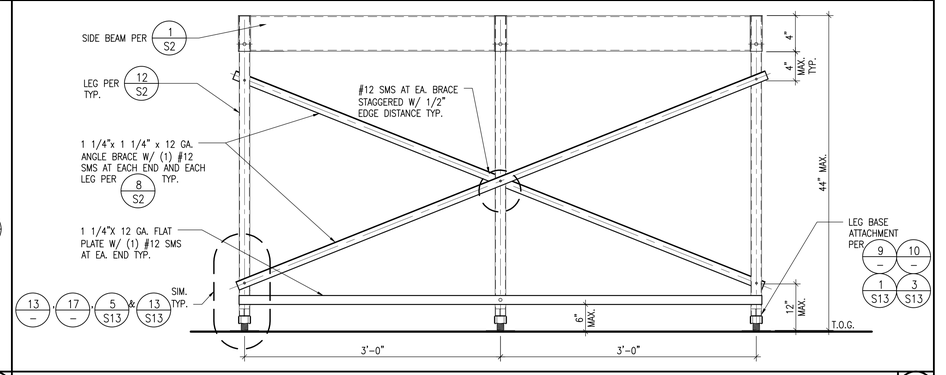
TYP. PLATE TO BRACE/STRAP CONN. 8



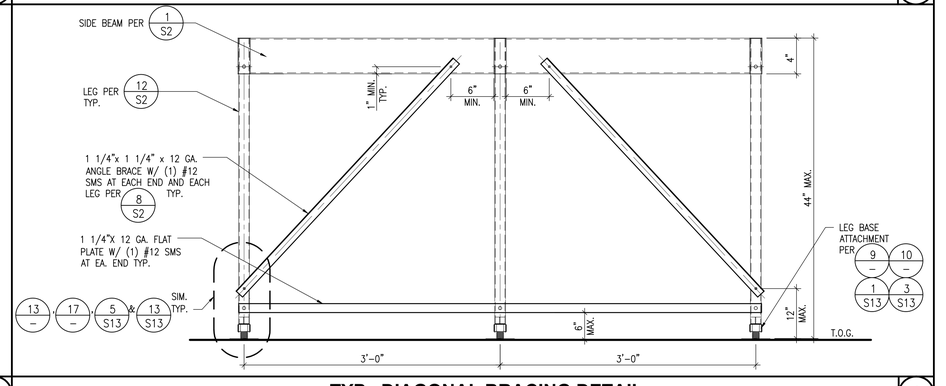
SECTION 4



TYP. CROSS BRACING DETAIL 3



TYP. CROSS BRACING DETAIL (ALT. FOR 6'-0" WIDE RAMP) 2



TYP. DIAGONAL BRACING DETAIL 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

NO.	REVISION	DATE
3		
2		
1		

Quick Deck Inc.
LOCUST, NC 28097
PHONE: 1(704)888-0327
EMAIL: drachi@quick-deck.com

REGISTERED PROFESSIONAL ENGINEER
MUHAMMAD R. HAFIZ
No. 3545
STRUCTURAL
STATE OF CALIFORNIA
11/01/2023

M.R.H. STRUCTURAL ENGINEERS
3400 IRVINE AVE., STE. 101
NEWPORT BEACH, CA 92660
(714) 444-8300
MRH@MRHSE.COM

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122493 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 11/01/2023

DIVISION OF THE STATE ARCHITECTS

SHEET TITLE: LEG AND BRACING DETAILS

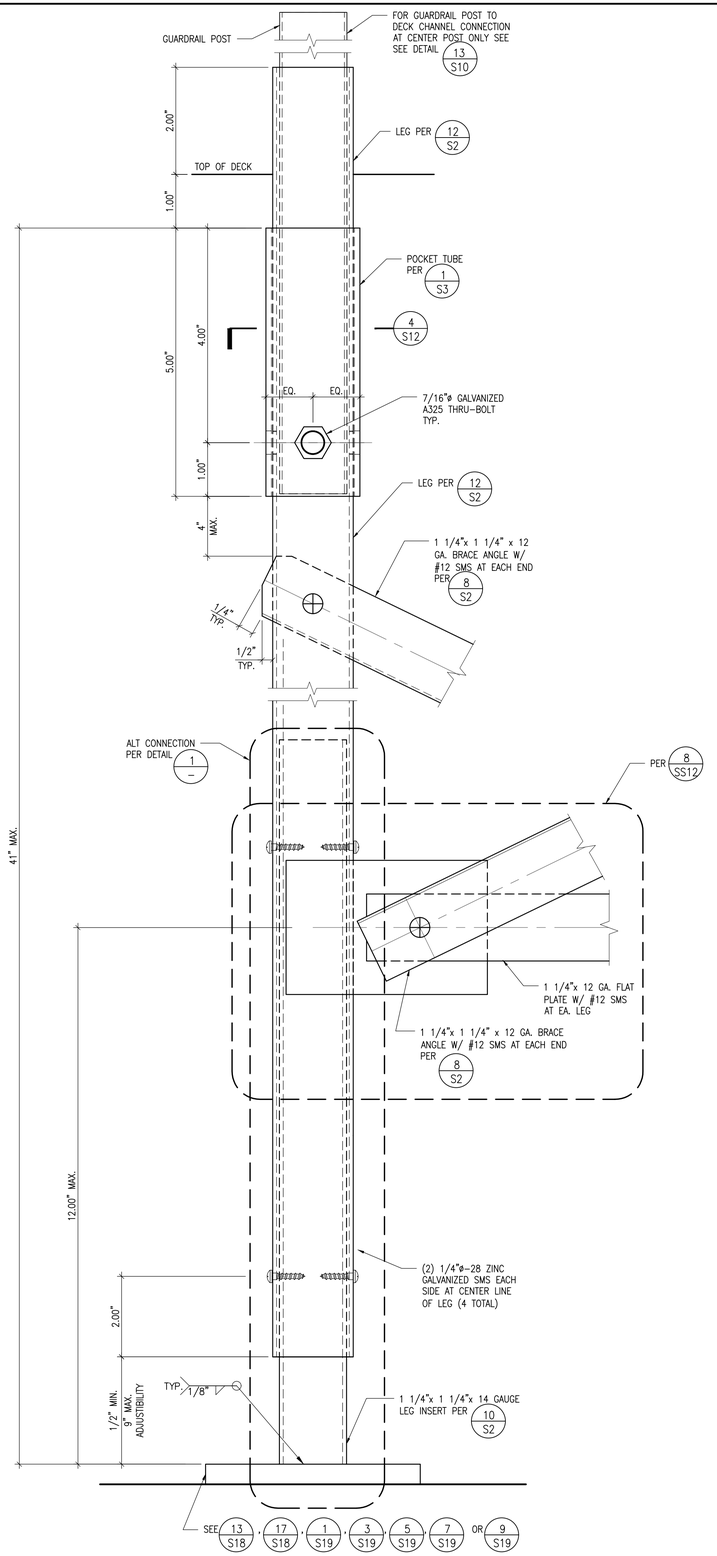
DATE	05/22/2023
JOB NO.	23131
FILENAME	DSA 2023 DRAWING (MRH)
REV.	
DRAWN BY	
APPROVED BY	MH
SCALE	N.T.S.
PLOT DATE	11/01/2023
SHEET NUMBER	S12

12 of 20

PLOT DATE: November 1, 2023

THESE DRAWINGS AND THE MATERIAL CONTAINED HEREIN ARE PROPERTY OF MRH, STRUCTURAL ENGINEERS AND SHALL NOT BE PRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OR THE FURNISHING OF ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE CONSENT OF MRH, STRUCTURAL ENGINEERS. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATED WITH MRH, STRUCTURAL ENGINEERS, SHALL BE THE PROPERTY OF MRH, STRUCTURAL ENGINEERS.

© MRH, STRUCTURAL ENGINEERS, 2023, ALL RIGHTS RESERVED

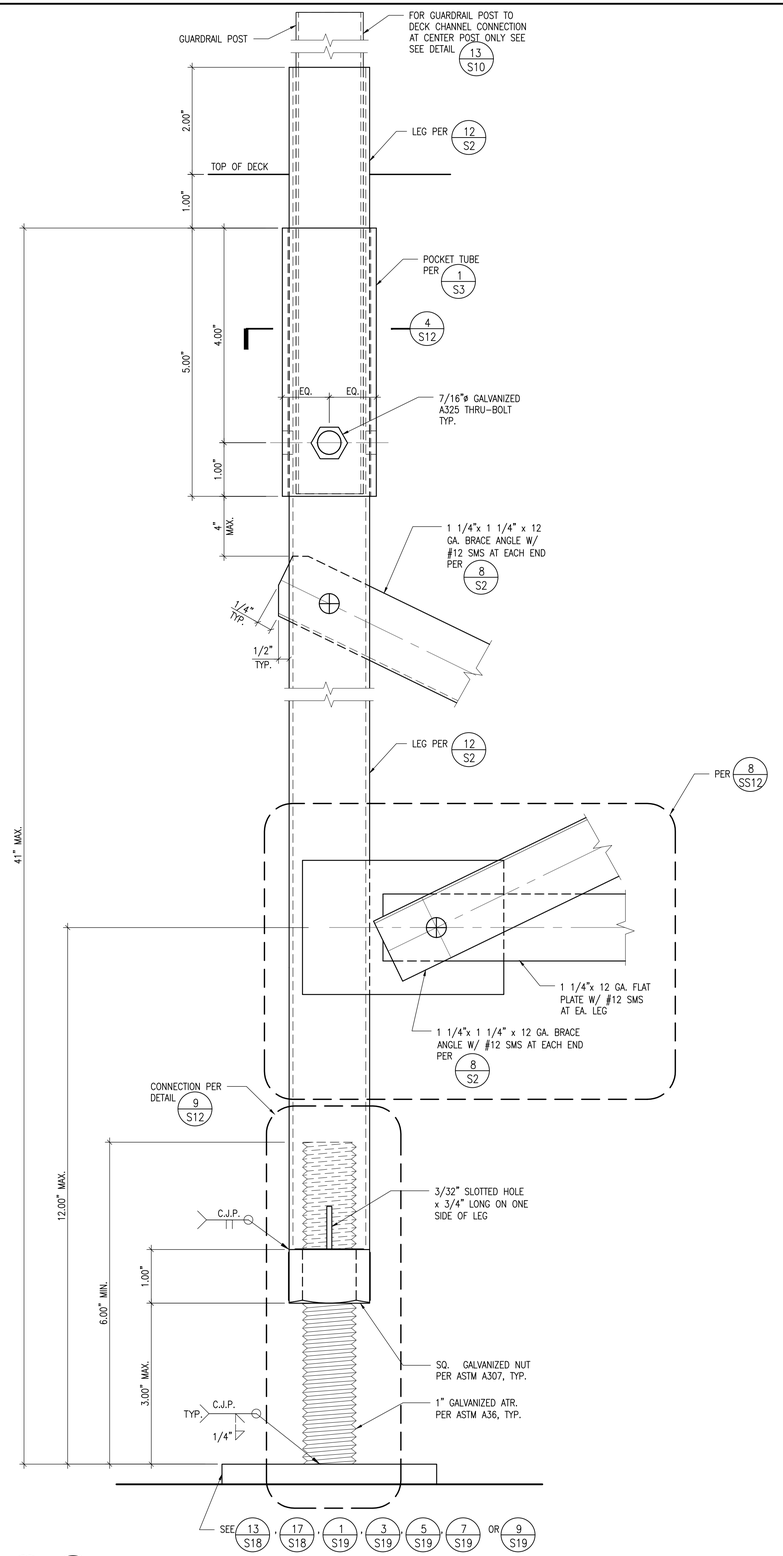


NOTE:

SEE DETAILS 1 – & 3 – FOR INFORMATION NOT SHOWN.

TYP. LEG TO JACK POST LEG BASE CONNECTION - ALT

13

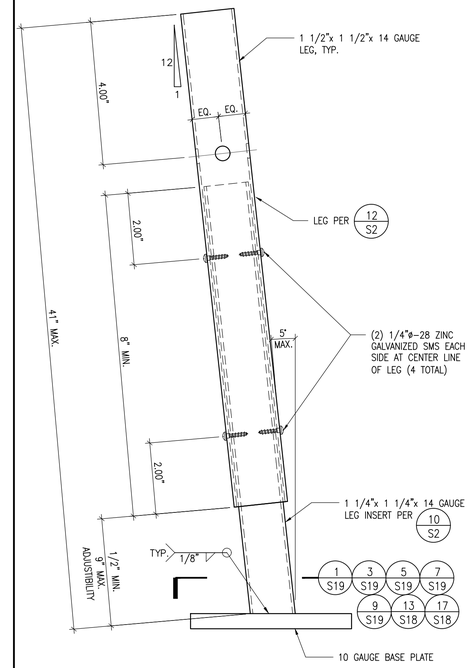


NOTE:

SEE DETAILS 9 S12 , 10 S12 & 11 S12 FOR INFORMATION NOT SHOWN.

TYP. LEG TO JACK SCREW LEG BASE CONNECTION - ALT

5

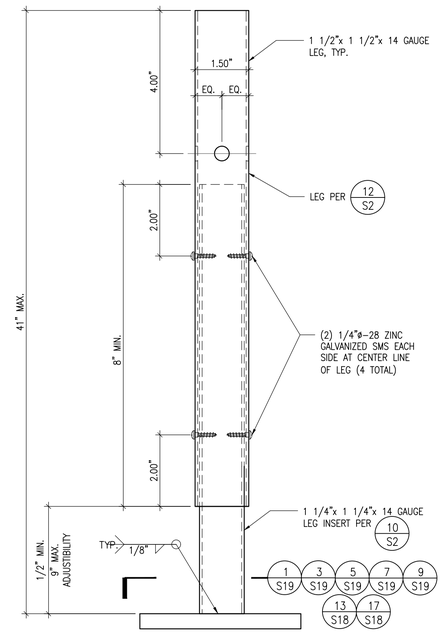


NOTE:

SEE DETAILS 1 – FOR INFORMATION NOT SHOWN.

TYP. JACK POST LEG DETAIL

3



NOTE:

SEE DETAILS 3 – , 13 – & 17 S12 FOR INFORMATION NOT SHOWN.

TYP. JACK POST LEG DETAIL

1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

NO.	REVISION	DATE
3.		
2.		
1.		

Quick-Deck Inc.
LOCUST, NC 28097
PHONE: 1(704)888-0327
EMAIL: drachi@quick-deck.com

REGISTERED PROFESSIONAL ENGINEER
MUHAMMAD R. HAFIZ
No. 3545
STRUCTURAL
STATE OF CALIFORNIA
11/01/2023

M.R.H. STRUCTURAL ENGINEERS
3400 IRVINE AVE., STE. 101
NEWPORT BEACH, CA 92660
(714) 434-8200
MRH@MRHSE.COM

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122493 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 11/01/2023

DIVISION OF THE STATE ARCHITECTS

SHEET TITLE: LEG AND BRACING DETAILS

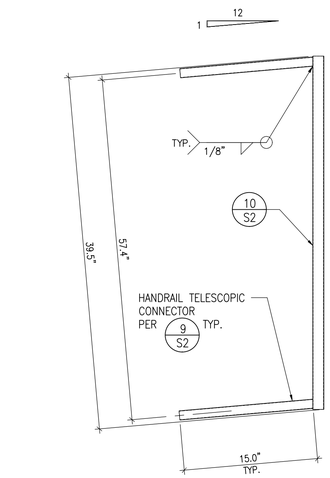
DATE	05/22/2023
JOB NO.	23131
FILENAME	DSA 2023 DRAWING (MRH)
REV.	
DRAWN BY	
APPROVED BY	MH
SCALE	N.T.S.
PLOT DATE	11/01/2023
SHEET NUMBER	S13

13 of 20

PLOT DATE: November 1, 2023

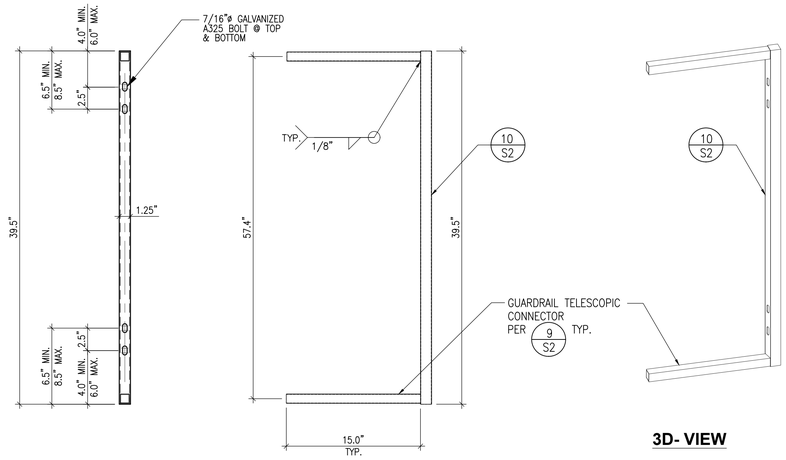
THESE DRAWINGS AND THE MATERIAL CONTAINED HEREIN ARE PROPERTY OF MRH, STRUCTURAL ENGINEERS AND SHALL NOT BE PRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OR THE FURNISHING OF ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE CONSENT OF MRH, STRUCTURAL ENGINEERS. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATED WITH MRH, STRUCTURAL ENGINEERS, SHALL BE THE PROPERTY OF MRH, STRUCTURAL ENGINEERS.

© MRH, STRUCTURAL ENGINEERS, 2023, ALL RIGHTS RESERVED



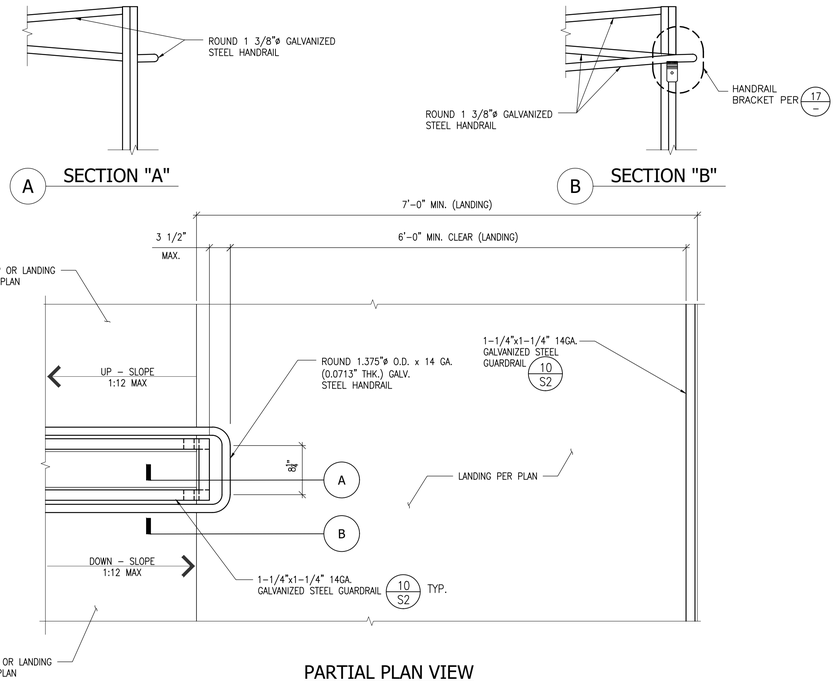
SEE DETAIL 11 – FOR INFORMATION NOT SHOWN.

TYP. SLOPED GUARD RAM 19



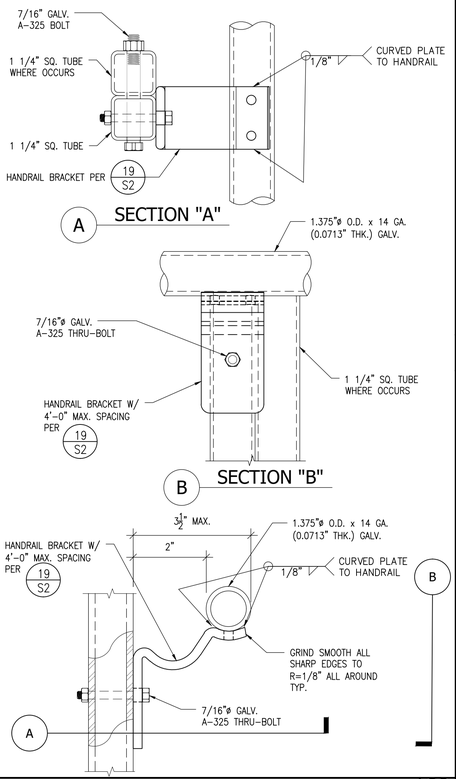
3D- VIEW

TYP. GUARD RAM 11

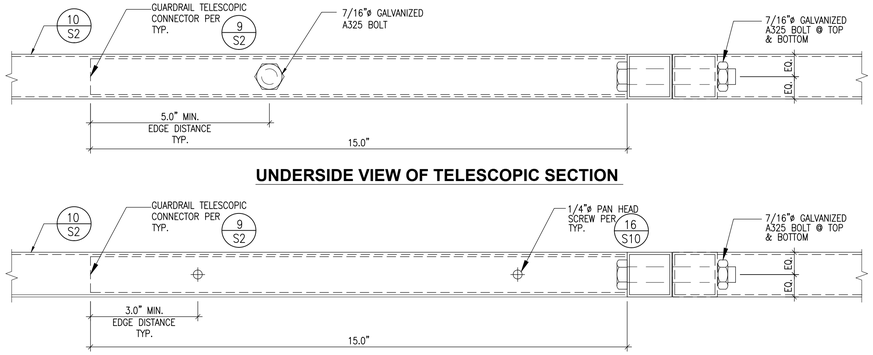


PARTIAL PLAN VIEW

TYP. HANDRAIL RETURN AT INTERMEDIATE LANDING FOR SWITCH-BACK 3



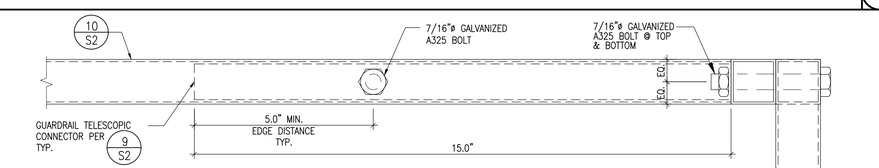
TYP. HANDRAIL BRACKET 17



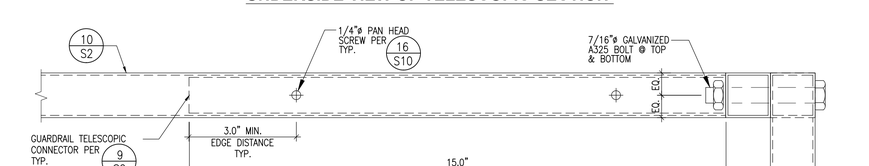
UNDERSIDE VIEW OF TELESCOPIC SECTION

UNDERSIDE VIEW OF TELESCOPIC SECTION - ALT. OPTION

TYP. GUARDRAIL CONNECTION 10

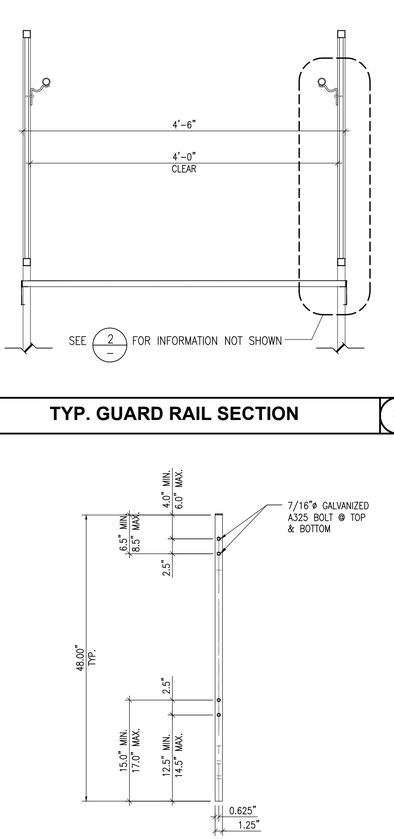


UNDERSIDE VIEW OF TELESCOPIC SECTION

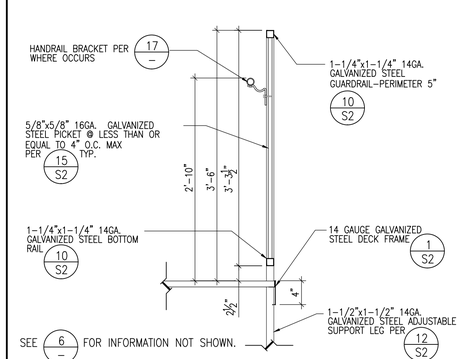


UNDERSIDE VIEW OF TELESCOPIC SECTION - ALT. OPTION

TYP. GUARDRAIL CORNER CONNECTION 9

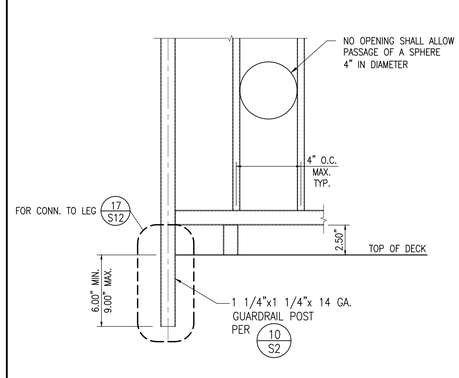


TYP. GUARD RAIL SECTION 6



TYP. GUARD RAIL SECTION 2

TYP. GUARD RAIL SIDE VIEW 5



TYP. HANDRAIL POST AT BASE 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

NO.	REVISION	DATE
3.		
2.		
1.		

Quick Deck Inc.
LOCUST, NC 28097
PHONE: 1(704)888-0327
EMAIL: drachi@quick-deck.com

REGISTERED PROFESSIONAL ENGINEER
MUHAMMAD R. HAFIZ
No. 3545
STRUCTURAL
STATE OF CALIFORNIA
11/01/2023

M.R.H. STRUCTURAL ENGINEERS
3400 IRVINE AVE., STE. 101
NEWPORT BEACH, CA 92660
T: 714.434.2000
MRH@MRHSE.COM

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122493 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 11/01/2023

DIVISION OF THE STATE ARCHITECTS

SHEET TITLE: GUARDRAIL AND HANDRAIL DETAILS

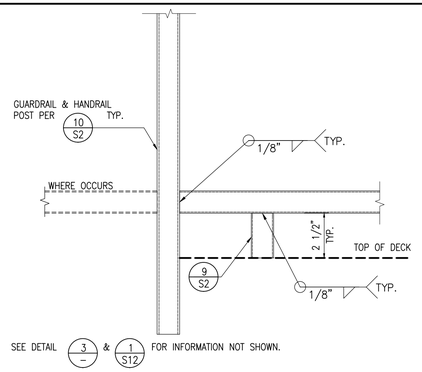
DATE	05/22/2023
JOB NO.	23131
FILENAME	DSA 2023 DRAWING (MRH)
REV.	
DRAWN BY	
APPROVED BY	MH
SCALE	N.T.S.
PLOT DATE	11/01/2023
SHEET NUMBER	S14

14 of 20

PLOT DATE: November 1, 2023

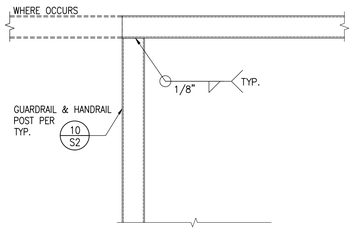
THESE DRAWINGS AND THE MATERIAL CONTAINED HEREIN ARE PROPERTY OF MRH, STRUCTURAL ENGINEERS AND SHALL NOT BE PRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OR THE FURNISHING OF ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE CONSENT OF MRH, STRUCTURAL ENGINEERS. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATED WITH MRH, STRUCTURAL ENGINEERS, SHALL BE THE PROPERTY OF MRH, STRUCTURAL ENGINEERS.

© MRH, STRUCTURAL ENGINEERS, 2023, ALL RIGHTS RESERVED



SEE DETAIL 3/– & 1/S12 FOR INFORMATION NOT SHOWN.

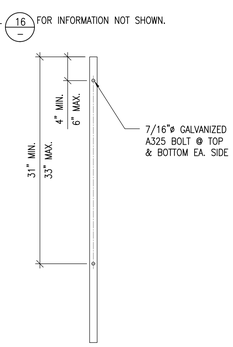
TYP. GUARDRAIL CONNECTION DETAIL 20

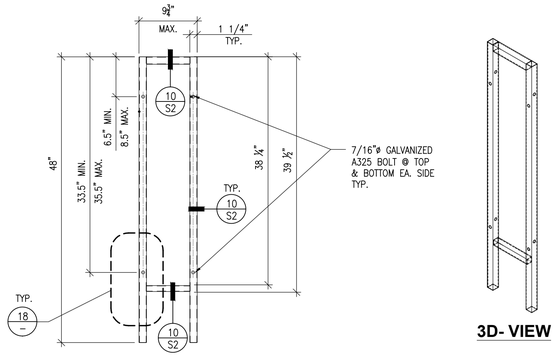


SEE DETAIL 3/– FOR INFORMATION NOT SHOWN.

TYP. GUARDRAIL CONNECTION DETAIL 16

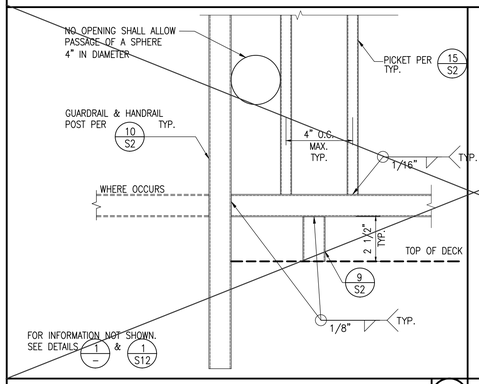
SEE DETAIL 16/– FOR INFORMATION NOT SHOWN.

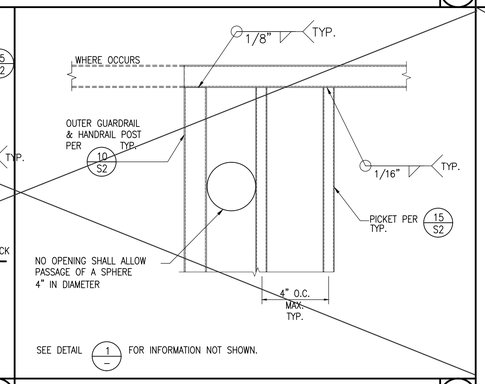




3D- VIEW

TYP. U-POST (W/ FINISH LANDING HEIGHT 30" OR LESS) 15

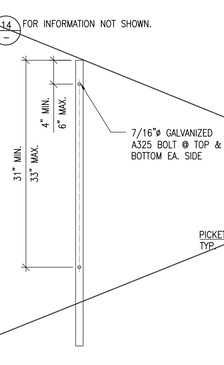


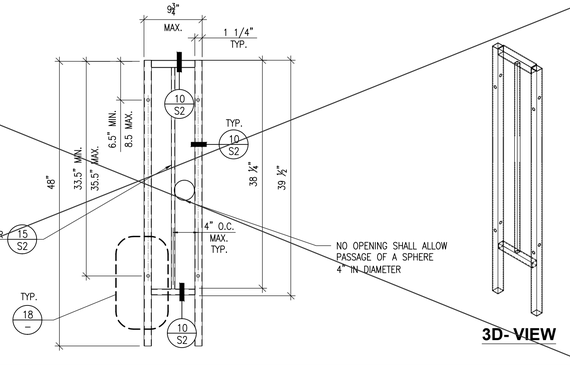


TYP. GUARDRAIL CONNECTION DETAIL 18

TYP. GUARDRAIL CONNECTION DETAIL 14

SEE DETAIL 14/– FOR INFORMATION NOT SHOWN.

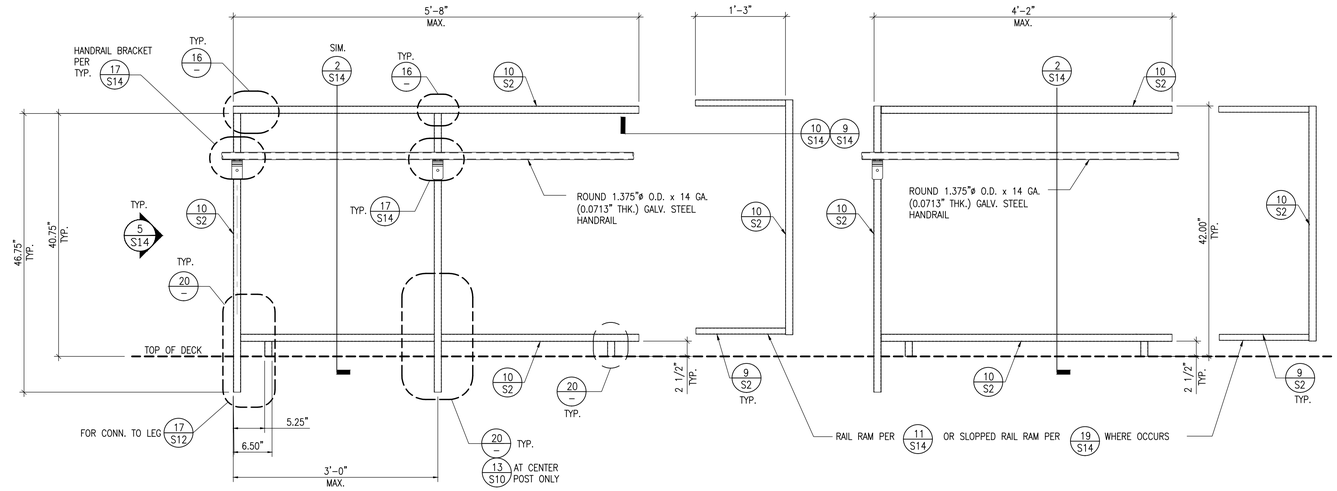




3D- VIEW

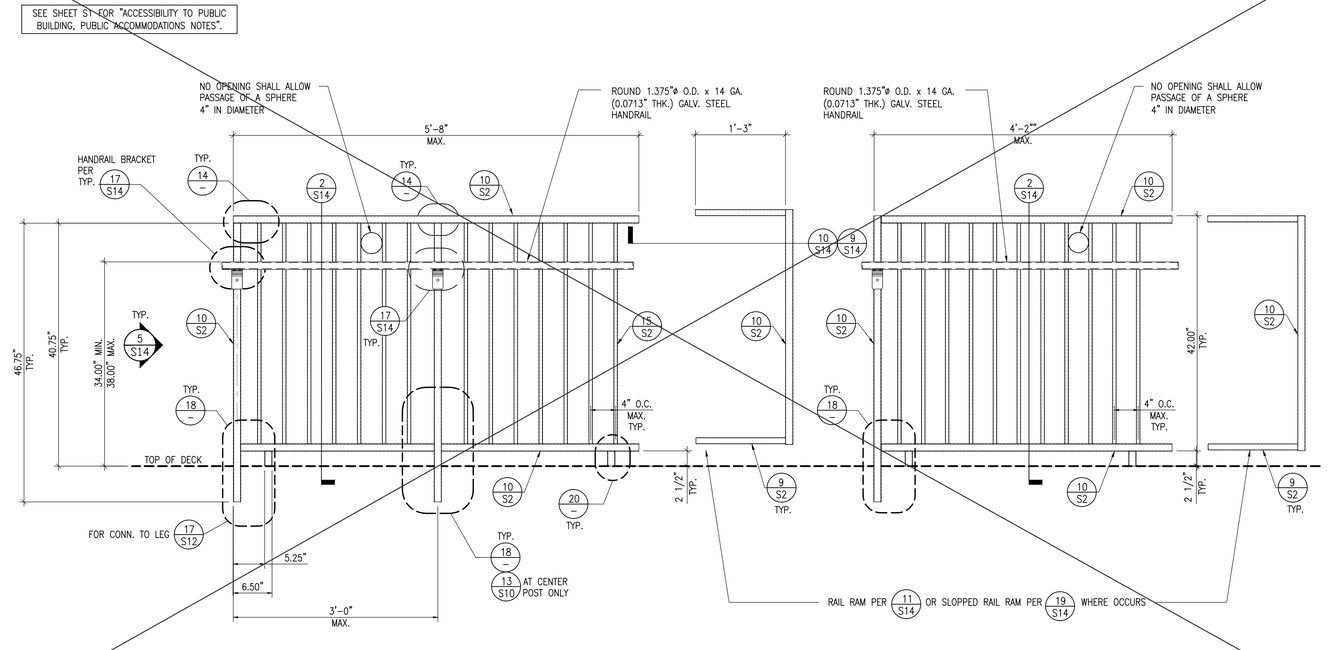
TYP. U-POST (W/ FINISH LANDING HEIGHT OVER 30" HEIGHT) 13

SEE SHEET S1 FOR "ACCESSIBILITY TO PUBLIC BUILDING, PUBLIC ACCOMMODATIONS NOTES".



TYP. GUARDRAIL AND HANDRAIL ASSEMBLY DETAIL (W/ FINISH LANDING HEIGHT 30" OR LESS) 3

SEE SHEET S1 FOR "ACCESSIBILITY TO PUBLIC BUILDING, PUBLIC ACCOMMODATIONS NOTES".



TYP. GUARDRAIL AND HANDRAIL ASSEMBLY DETAIL (W/ FINISH LANDING HEIGHT 0" TO 44" MAX.) - OPTION 1 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

NO.	REVISION	DATE
3		
2		
1		

Quick Deck Inc.
LOCUST, NC 28097
PHONE: 1(704)888-0327
EMAIL: drachi@quick-deck.com

REGISTERED PROFESSIONAL ENGINEER MUHAMMAD R. HAFIZ NO. 3545 STRUCTURAL STATE OF CALIFORNIA
11/01/2023

M.R.H. STRUCTURAL ENGINEERS
3400 IRVINE AVE., STE. 101
NEWPORT BEACH, CA 92660
(714) 444-8200
MRH@MRHSE.COM

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122493 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 11/01/2023

DIVISION OF THE STATE ARCHITECTS

SHEET TITLE: GUARDRAIL AND HANDRAIL DETAILS

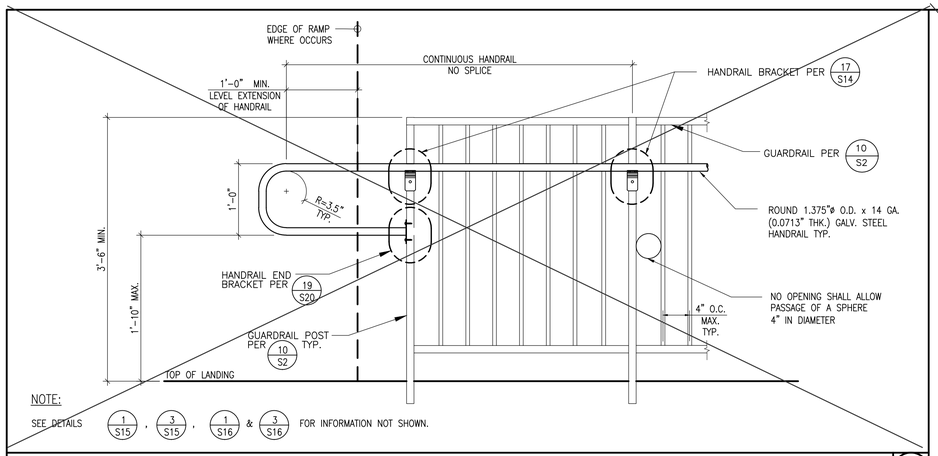
DATE	05/22/2023
JOB NO.	23131
FILENAME	DSA 2023 DRAWING (MRH)
REV.	
DRAWN BY	
APPROVED BY	MH
SCALE	N.T.S.
PLOT DATE	11/01/2023
SHEET NUMBER	S15

15 of 20

PLOT DATE: November 1, 2023

THESE DRAWINGS AND THE MATERIAL CONTAINED HEREIN ARE PROPERTY OF MRH, STRUCTURAL ENGINEERS AND SHALL NOT BE PRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OR THE FURNISHING OF ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE CONSENT OF MRH, STRUCTURAL ENGINEERS. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATED WITH MRH, STRUCTURAL ENGINEERS, SHALL BE THE PROPERTY OF MRH, STRUCTURAL ENGINEERS.

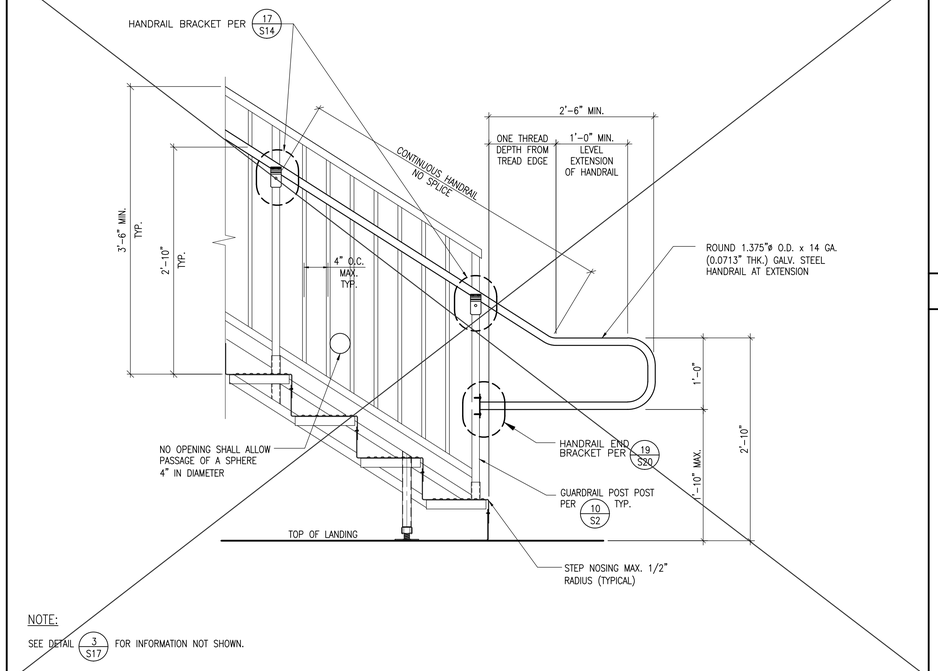
© MRH, STRUCTURAL ENGINEERS, 2023, ALL RIGHTS RESERVED



NOTE:

SEE DETAILS 1 S15 , 3 S15 , 1 S16 & 3 S16 FOR INFORMATION NOT SHOWN.

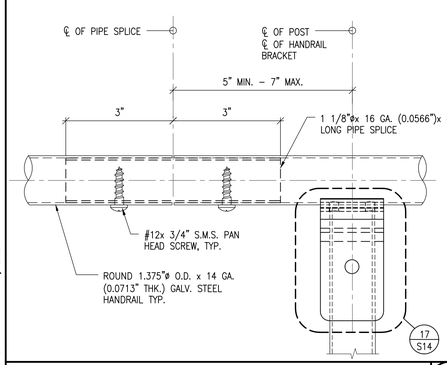
TYP. HANDRAIL RETURN DETAIL AT LANDING OR RAMP 16



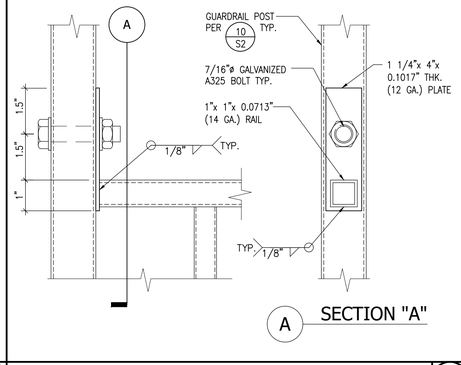
NOTE:

SEE DETAIL 3 S17 FOR INFORMATION NOT SHOWN.

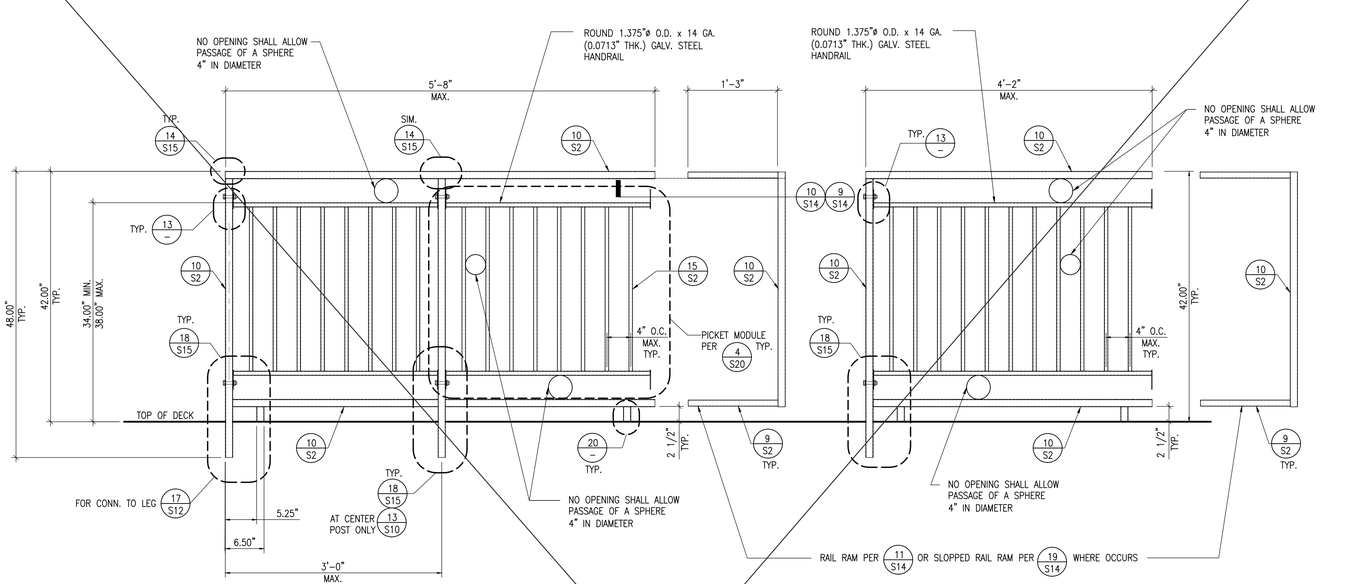
TYP. HANDRAIL RETURN DETAIL AT STAIRS 14



TYP. HANDRAIL SPLICE DETAIL 17



TYP. PICKET ASSEMBLY CONN. DETAIL 13

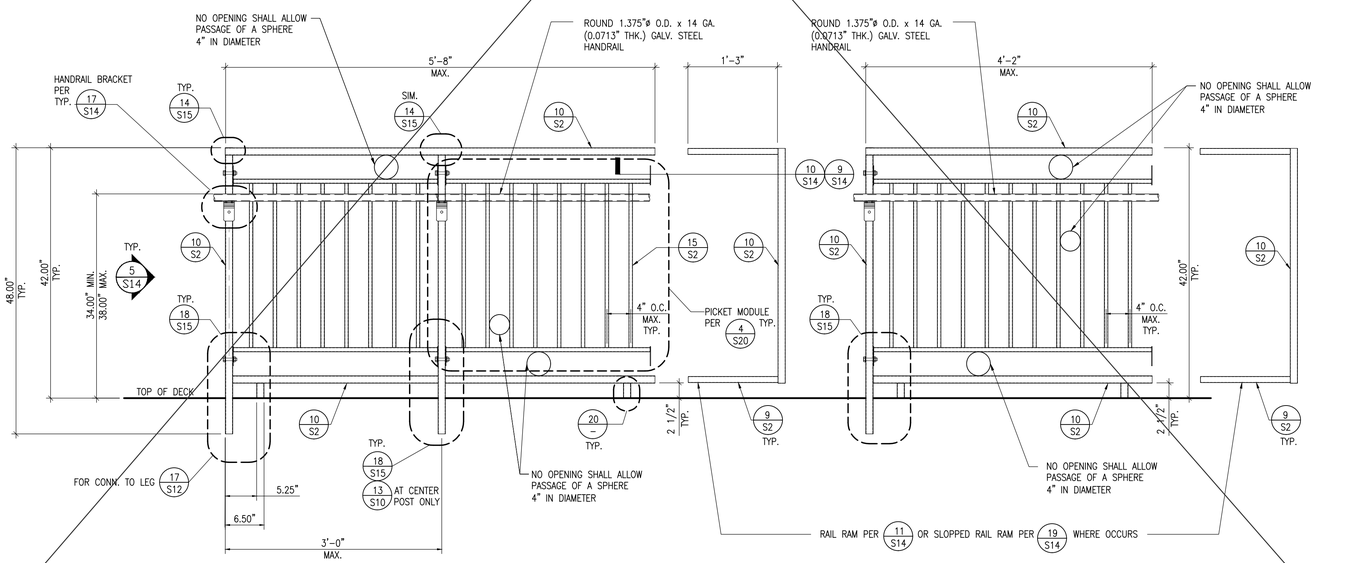


NOTE:

SEE DETAILS 1 – FOR INFORMATION NOT SHOWN.

(LOOKING FROM INSIDE OUT)

TYPICAL GUARDRAIL AND HANDRAIL ASSEMBLY DETAIL (W/ FINISH LANDING HEIGHT 0" TO 42" MAX.) - OPTION 2 3



(LOOKING FROM OUTSIDE IN)

TYPICAL GUARDRAIL AND HANDRAIL ASSEMBLY DETAIL (W/ FINISH LANDING HEIGHT 0" TO 44" MAX.) - OPTION 2 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

NO.	REVISION	DATE
3		
2		
1		

Quick Deck Inc.
LOCUST, NC 28097
PHONE: 1(704)888-0327
EMAIL: drachi@quick-deck.com

REGISTERED PROFESSIONAL ENGINEER MUHAMMAD R. HAFIZ No. 3545 STRUCTURAL STATE OF CALIFORNIA
11/01/2023

M.R.H. STRUCTURAL ENGINEERS
3400 IRVINE AVE., STE. 101
NEWPORT BEACH, CA 92660
(714) 444-8300
MRH@MRHSE.COM

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122493 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 11/01/2023

DIVISION OF THE STATE ARCHITECTS

SHEET TITLE: GUARDRAIL AND HANDRAIL DETAILS

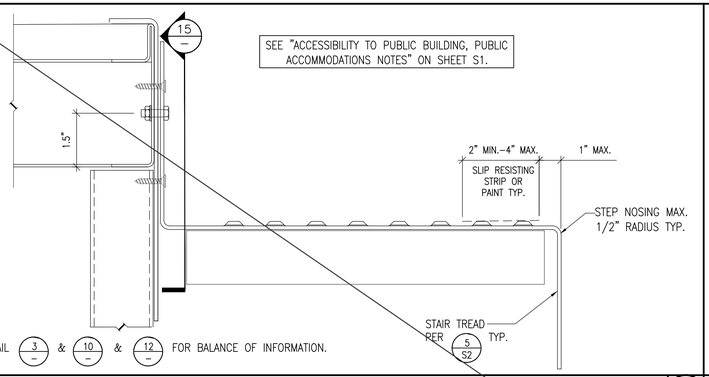
DATE	05/22/2023
JOB NO.	23131
FILENAME	DSA 2023 DRAWING (MRH)
REV.	
DRAWN BY	
APPROVED BY	MH
SCALE	N.T.S.
PLOT DATE	11/01/2023
SHEET NUMBER	S16

16 of 20

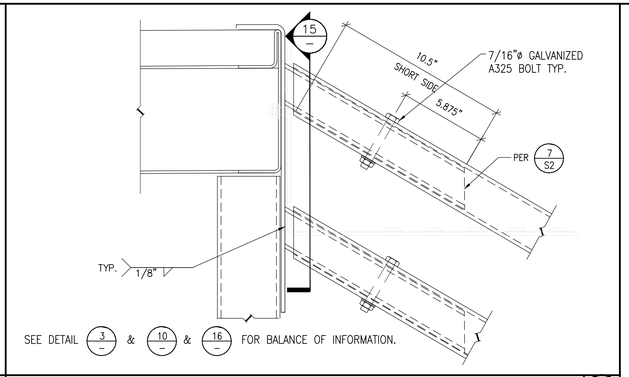
PLOT DATE: November 1, 2023

THESE DRAWINGS AND THE MATERIAL CONTAINED HEREIN ARE PROPERTY OF MRH, STRUCTURAL ENGINEERS AND SHALL NOT BE PRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OR THE FURNISHING OF ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE CONSENT OF MRH, STRUCTURAL ENGINEERS. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATED WITH MRH, STRUCTURAL ENGINEERS, SHALL BE THE PROPERTY OF MRH, STRUCTURAL ENGINEERS.

© MRH, STRUCTURAL ENGINEERS, 2023, ALL RIGHTS RESERVED



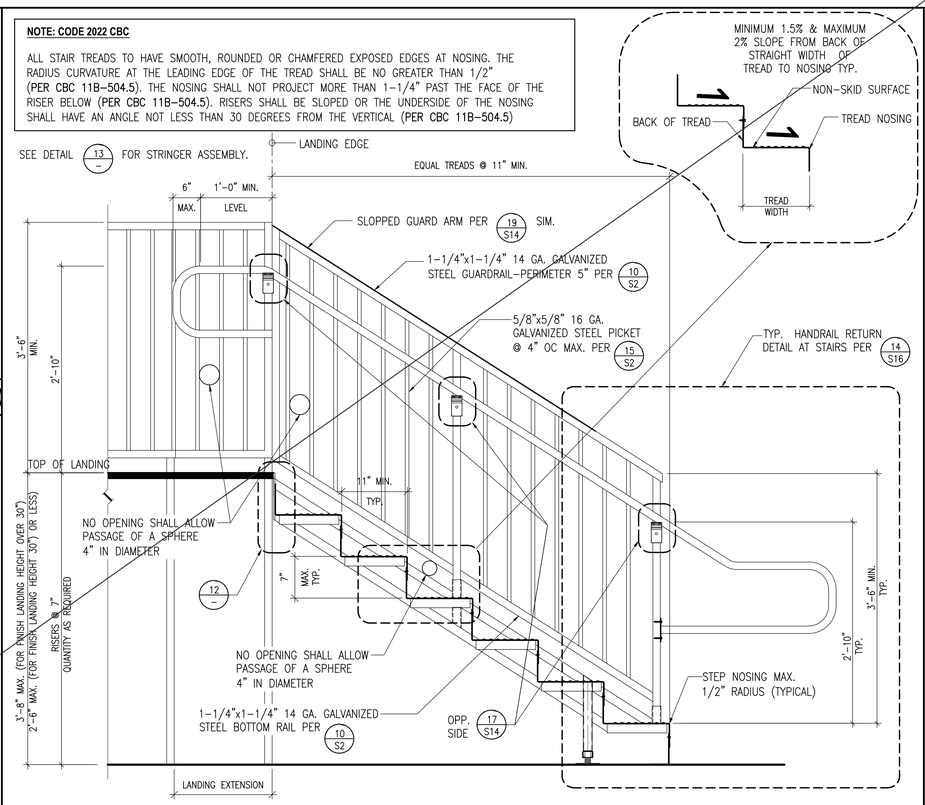
TYP. STAIR TREAD TO LANDING CONNECTION — 16



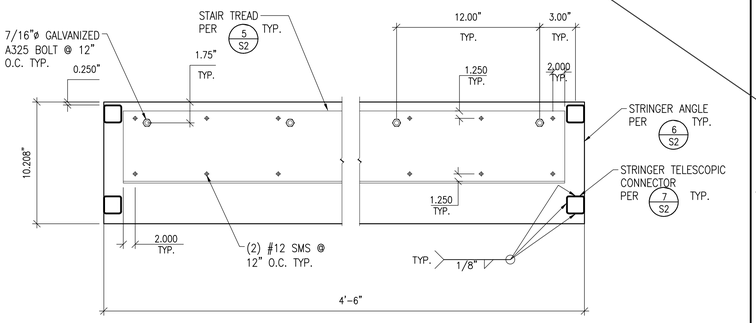
STRINGER TO SIDE BEAM CONNECTION — 12

NOTE: CODE 2022 CBC

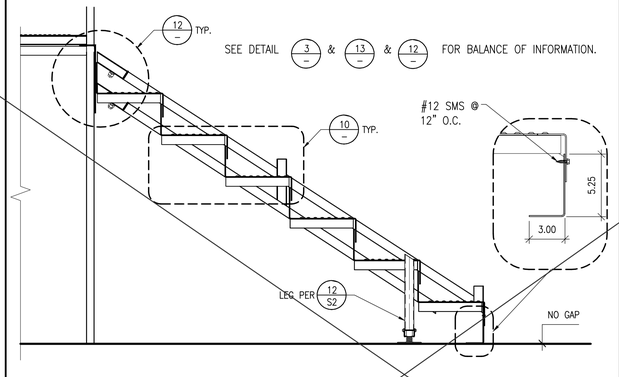
ALL STAIR TREADS TO HAVE SMOOTH, ROUNDED OR CHAMFERED EXPOSED EDGES AT NOSING. THE RADIUS CURVATURE AT THE LEADING EDGE OF THE TREAD SHALL BE NO GREATER THAN 1/2" (PER CBC 11B-504.5). THE NOSING SHALL NOT PROJECT MORE THAN 1-1/4" PAST THE FACE OF THE RISER BELOW (PER CBC 11B-504.5). RISERS SHALL BE SLOPED OR THE UNDERSIDE OF THE NOSING SHALL HAVE AN ANGLE NOT LESS THAN 30 DEGREES FROM THE VERTICAL (PER CBC 11B-504.5)



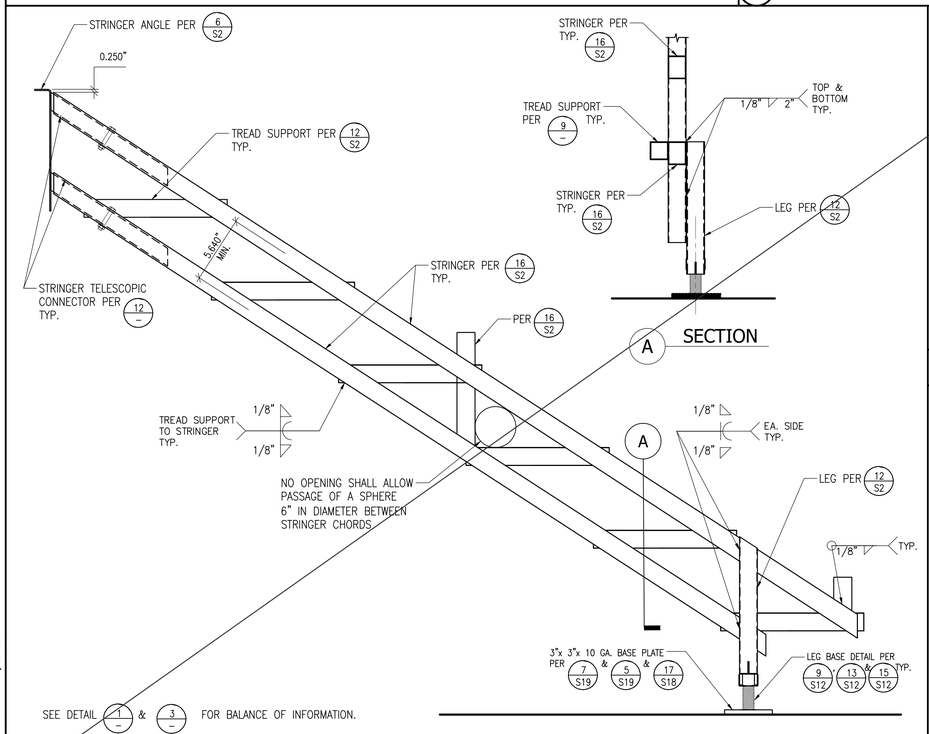
TYPICAL STAIR SECTION — 3



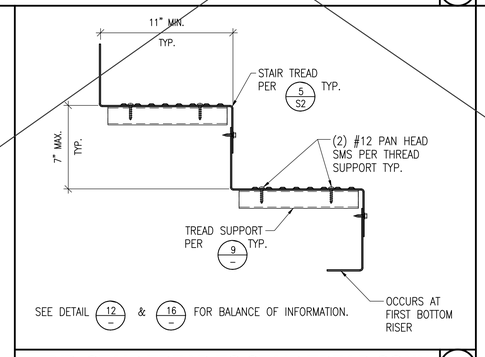
TYP. STRINGER TO SIDE BEAM CONNECTION — 15



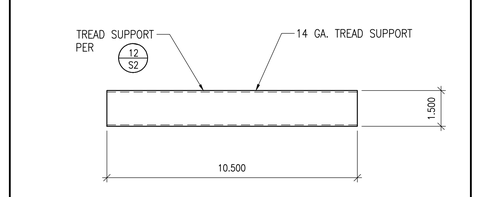
TYPICAL STRINGER ASSEMBLY — 11



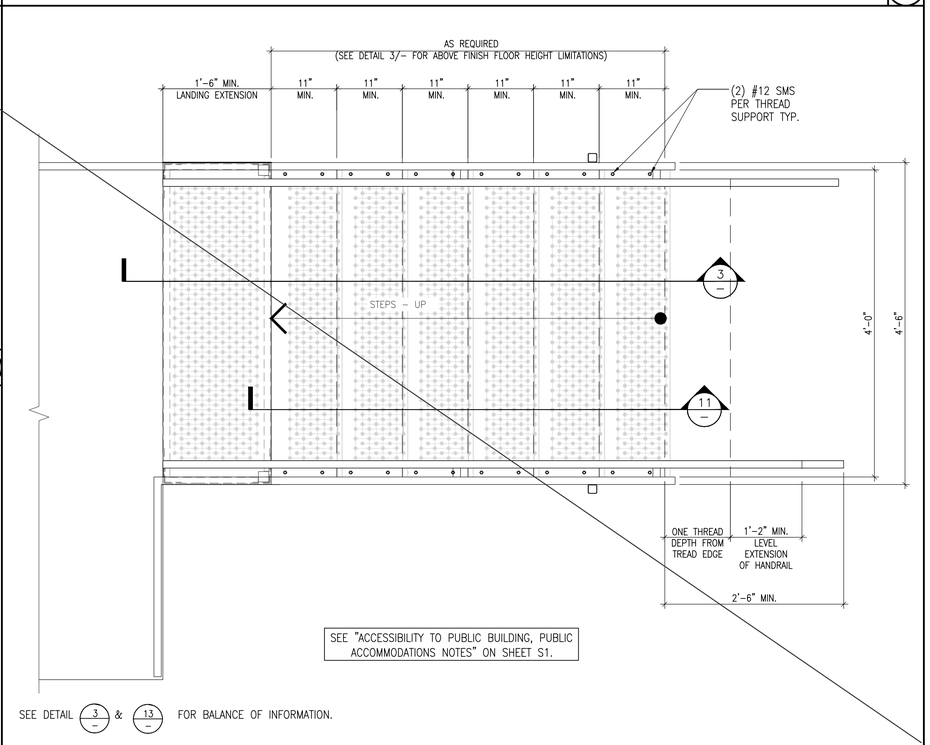
TYPICAL STRINGER ASSEMBLY — 13



TYP. STAIR TREAD TO STAIR TREAD CONN. — 10



TYP. TREAD SUPPORT DETAIL — 9



TYPICAL STAIR PLAN — 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

NO.	REVISION	DATE
3		
2		
1		

Quick-Deck Inc.
LOCUST, NC 28097
PHONE: 1(704)888-0327
EMAIL: drachi@quick-deck.com

REGISTERED PROFESSIONAL ENGINEER
MUHAMMAD R. HAFIZ
NO. 3545
MRH
STRUCTURAL ENGINEER
STATE OF CALIFORNIA
11/01/2023

M.R.H. STRUCTURAL ENGINEERS
3400 IRVINE AVE., STE. 101
NEWPORT BEACH, CA 92660
(714) 434-8000
MRH@MRHSE.COM

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122493 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 11/01/2023

DIVISION OF THE STATE ARCHITECTS

SHEET TITLE: STAIR DETAILS

DATE	05/22/2023
JOB NO.	23131
FILENAME	DSA 2023 DRAWING (MRH)
REV.	
DRAWN BY	
APPROVED BY	MH
SCALE	N.T.S.
PLOT DATE	11/01/2023
SHEET NUMBER	S17

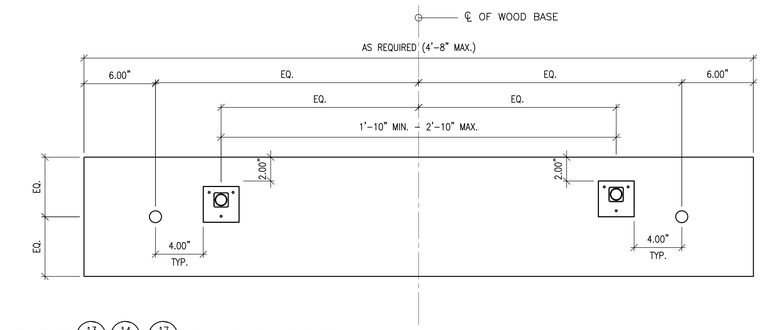
PLOT DATE: November 1, 2023

THESE DRAWINGS AND THE MATERIAL CONTAINED HEREIN ARE PROPERTY OF MRH, STRUCTURAL ENGINEERS AND SHALL NOT BE PRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OR THE FURNISHING OF ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE CONSENT OF MRH, STRUCTURAL ENGINEERS. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATED WITH MRH, STRUCTURAL ENGINEERS, SHALL BE THE PROPERTY OF MRH, STRUCTURAL ENGINEERS.

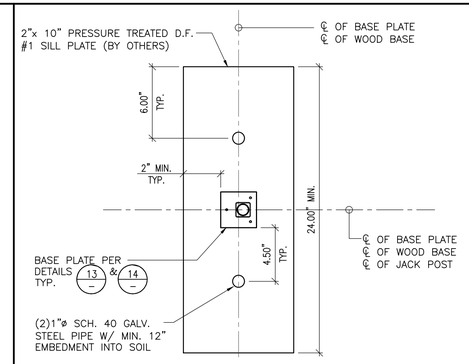
© MRH, STRUCTURAL ENGINEERS, 2023, ALL RIGHTS RESERVED

NOT USED 20

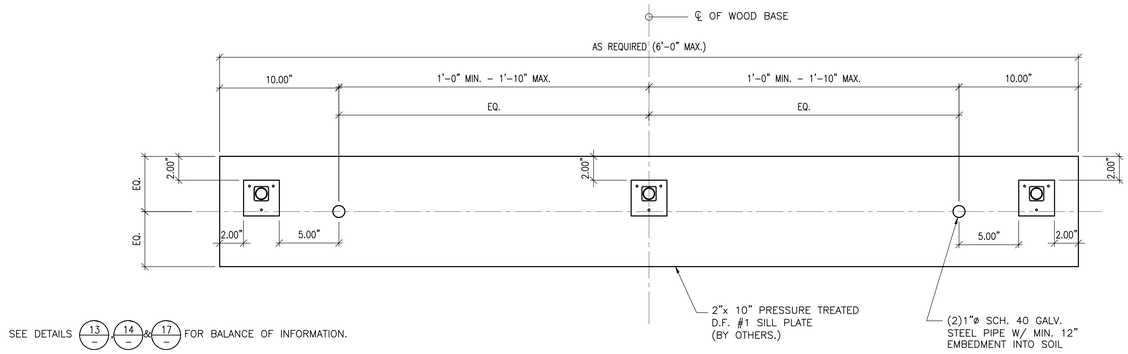
NOT USED 16



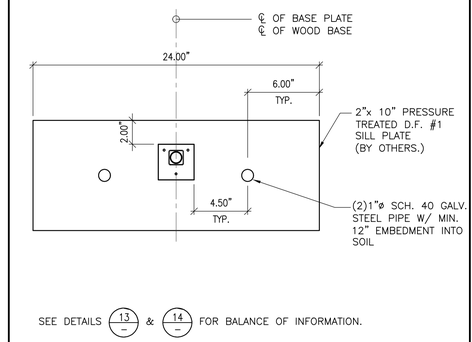
TYP. LEG BASE TO SILL CONN. DETAIL AT STAIRS 8



TYP. LEG BASE TO SILL CONN. DETAIL 4

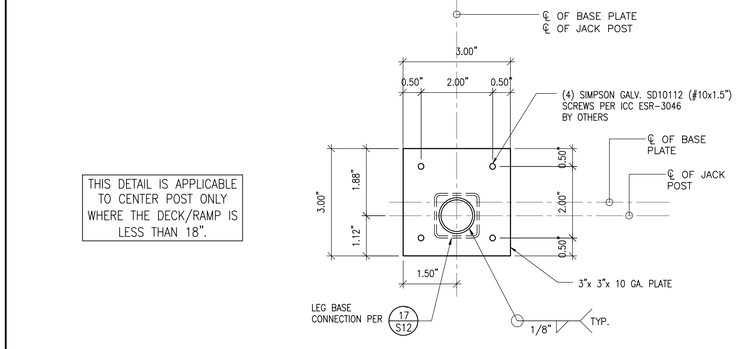


TYP. LEG BASE TO SILL CONN. DETAIL 7

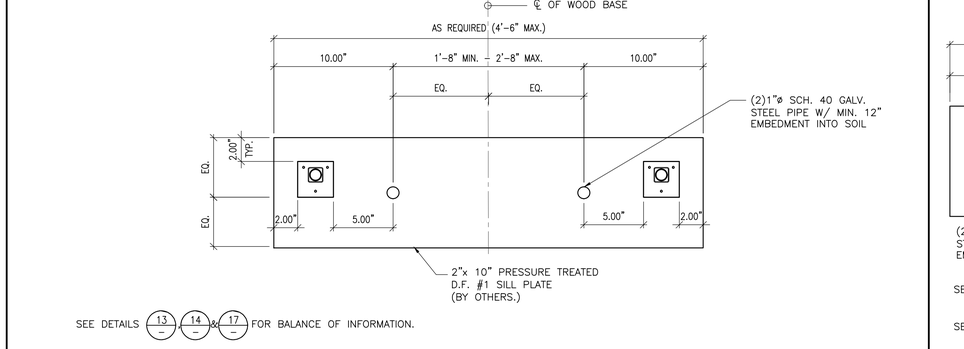


TYP. LEG BASE TO SILL CONN. DETAIL 3

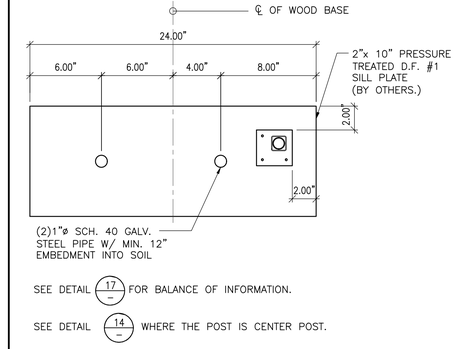
NOT USED 19



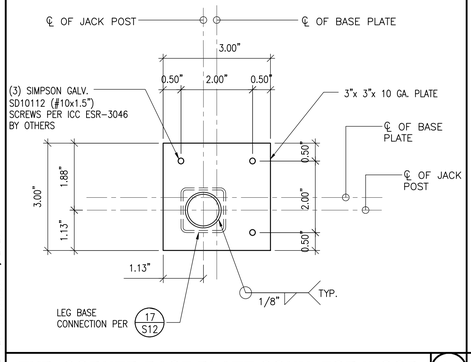
TYP. SIDE BASE PLATE CONN. FOR WOOD 14



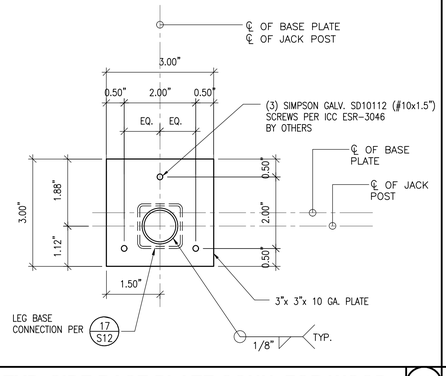
TYP. LEG BASE TO SILL CONN. DETAIL 6



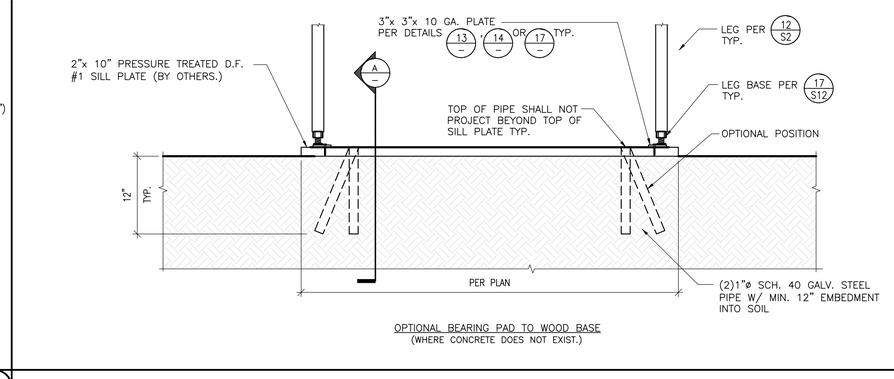
TYP. LEG BASE TO SILL CONN. DETAIL 2



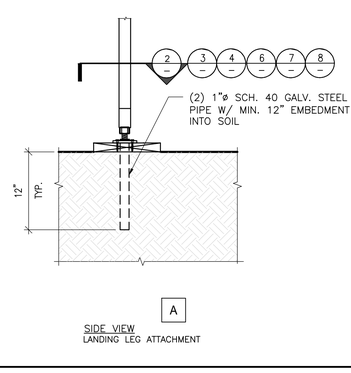
TYP. CORNER BASE PLATE CONN. FOR WOOD 17



TYP. SIDE BASE PLATE CONN. FOR WOOD 13



TYP. WOOD SILL PLATE AT GRADE DETAIL 1



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

NO.	REVISION	DATE
3		
2		
1		

Quick Deck Inc.
LOCUST, NC 28097
PHONE: 1(704)888-0327
EMAIL: drachi@quick-deck.com

REGISTERED PROFESSIONAL ENGINEER
MUHAMMAD R. HAFIZ
No. 3545
MRH STRUCTURAL ENGINEERS
STATE OF CALIFORNIA
11/01/2023

M.R.H. STRUCTURAL ENGINEERS
3400 IRVINE AVE., STE. 101
NEWPORT BEACH, CA 92660
(714) 434-8200
MRH@MRHSE.COM

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122493 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 11/01/2023

DIVISION OF THE STATE ARCHITECTS

SHEET TITLE: BASE PLATE CONNECTION DETAILS FOR WOOD SILL PLATE

DATE	05/22/2023
JOB NO.	23131
FILENAME	DSA 2023 DRAWING (MRH)
REV.	
DRAWN BY	
APPROVED BY	MH
SCALE	N.T.S.
PLOT DATE	11/01/2023
SHEET NUMBER	S18

18 of 20

PLOT DATE: November 1, 2023

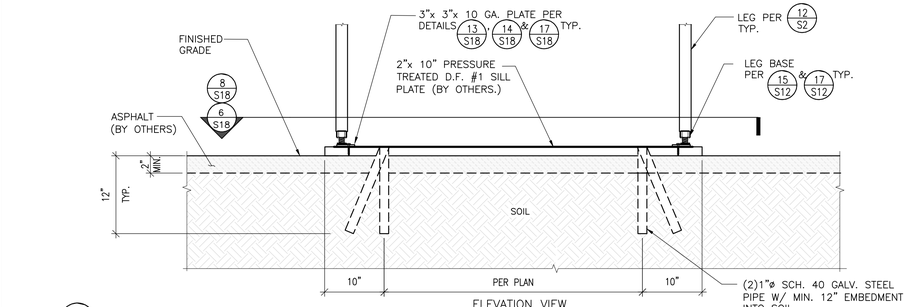
THESE DRAWINGS AND THE MATERIAL CONTAINED HEREIN ARE PROPERTY OF MRH, STRUCTURAL ENGINEERS AND SHALL NOT BE PRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OR THE FURNISHING OF ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE CONSENT OF MRH, STRUCTURAL ENGINEERS. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATED WITH MRH, STRUCTURAL ENGINEERS, SHALL BE THE PROPERTY OF MRH, STRUCTURAL ENGINEERS.

© MRH, STRUCTURAL ENGINEERS, 2023, ALL RIGHTS RESERVED

NOT USED (20)

NOT USED (12)

BASE PLATE ON ASPHALT BASE - ALT (8)

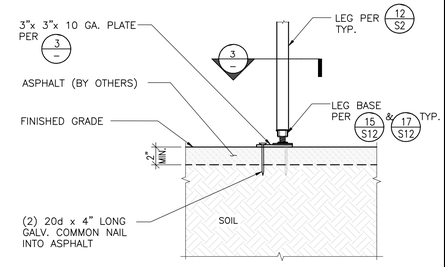


SEE DETAIL 1 S18 FOR INFORMATION. NOT SHOWN.

ELEVATION VIEW

OPTIONAL BEARING PAD ON ASPHALT BASE
LANDING LEG ATTACHMENT

BASE PLATE ON ASPHALT BASE (4)



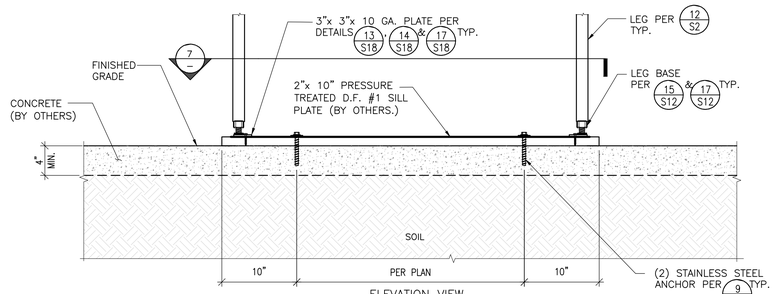
ELEVATION VIEW

OPTIONAL BEARING PAD ON ASPHALT BASE
LANDING LEG ATTACHMENT

NOT USED (19)

NOT USED (15)

BASE PLATE ON SILL PLATE BASE CONCRETE BASE - ALT (7)

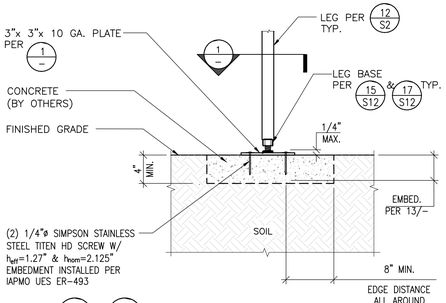


SEE DETAIL 1 S18 & 9 – FOR INFORMATION NOT SHOWN.

ELEVATION VIEW

OPTIONAL BEARING PAD ON CONC. BASE
LANDING LEG ATTACHMENT

CORNER BASE PLATE CONNECTION FOR ASPHALT (3)



SEE DETAIL 1 – & 5 – FOR INFORMATION NOT SHOWN.

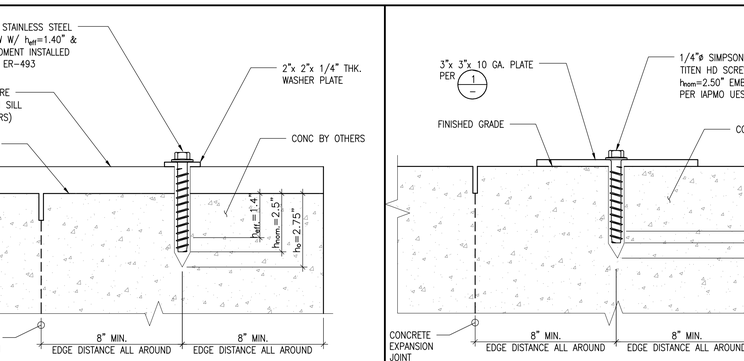
ELEVATION VIEW

EXISTING CONCRETE BASE
LANDING LEG ATTACHMENT

NOT USED (18)

NOT USED (14)

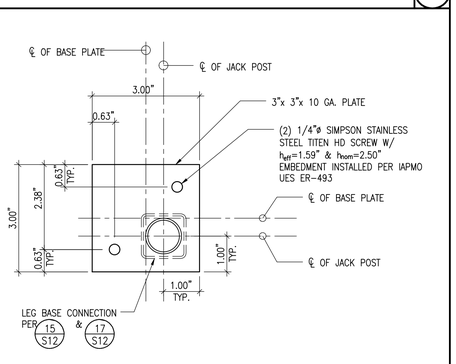
BASE PLATE ON SILL PLATE BASE CONCRETE BASE - ALT (6)



SEE DETAIL 6 –, 9 – & 1 S18 FOR INFORMATION NOT SHOWN.

PLAN VIEW

BASE PLATE ON CONCRETE BASE (2)

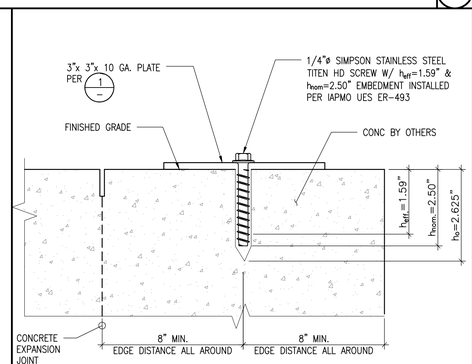


NOT USED (17)

NOT USED (13)

TYP. CONC. ANCHORAGE DETAIL - ALT (9)

TYP. CONC. ANCHORAGE DETAIL (5)



CORNER BASE PLATE FOR CONCRETE (1)

PLOT DATE: November 1, 2023

THESE DRAWINGS AND THE MATERIAL CONTAINED HEREIN ARE PROPERTY OF MRH, STRUCTURAL ENGINEERS AND SHALL NOT BE PRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OR THE FURNISHING OF ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE CONSENT OF MRH, STRUCTURAL ENGINEERS. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATED WITH MRH, STRUCTURAL ENGINEERS, SHALL BE THE PROPERTY OF MRH, STRUCTURAL ENGINEERS.

© MRH, STRUCTURAL ENGINEERS, 2023, ALL RIGHTS RESERVED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

NO.	REVISION	DATE
3		
2		
1		

Quick Deck Inc.
LOCUST, NC 28097
PHONE: 1(704)888-0327
EMAIL: drachi@quick-deck.com

REGISTERED PROFESSIONAL ENGINEER
MUHAMMAD R. HAFIZ
No. 3545
MRH
STRUCTURAL
STATE OF CALIFORNIA
11/01/2023

M.R.H. STRUCTURAL ENGINEERS
3400 IRVINE AVE., STE. 101
NEWPORT BEACH, CA 92660
(714) 434-8001
MRH@MRHSE.COM

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122493 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 11/01/2023

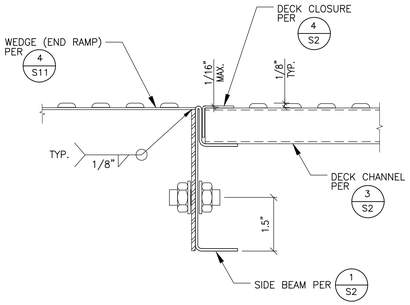
DIVISION OF THE STATE ARCHITECTS

SHEET TITLE: BASE PLATE CONNECTION DETAILS FOR CONCRETE AND ASPHALT

DATE	05/22/2023
JOB NO.	23131
FILENAME	DSA 2023 DRAWING (MRH)
REV.	
DRAWN BY	
APPROVED BY	MH
SCALE	N.T.S.
PLOT DATE	11/01/2023
SHEET NUMBER	S19

NOT USED (20)

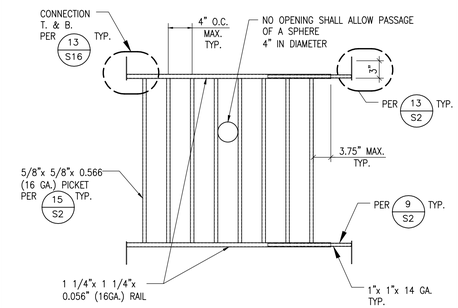
WEDGE TO HANGER (END RAMP) CONCC. DETAIL (16)



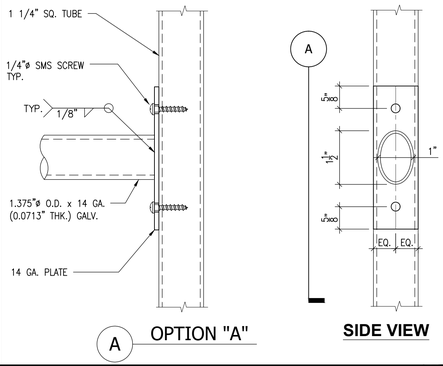
NOT USED (12)

NOT USED (8)

TYP. PICKET MODULE (4)

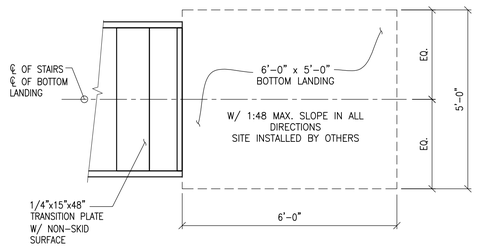


TYP. HANDRAIL END CONNECTION DETAIL (19)



SIDE VIEW

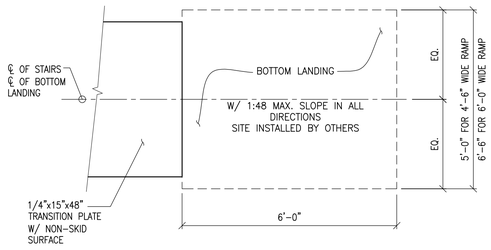
BOTTOM LANDING AT STAIRS



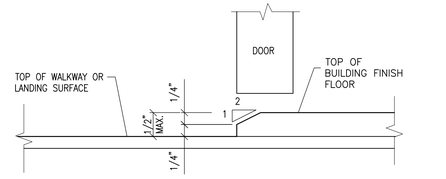
NOTE:

1. BOTTOM LANDING SHALL BE SLOPED 1:48 MAX IN ALL DIRECTIONS.

BOTTOM LANDING AT RAMP



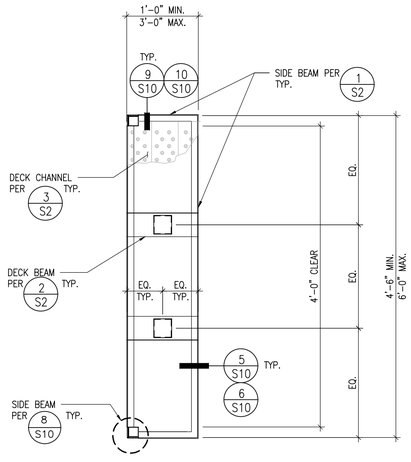
BEVELED CHANGE IN LEVEL (3)



NOTE:

1. CHANGES IN LEVEL BETWEEN 1/4" HIGH AND 1/2" HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAT 1:2.
2. CHANGES IN LEVEL MORE THAN 1/2" NOT ALLOWED.

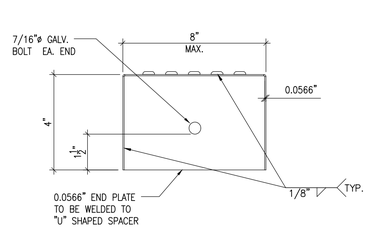
TYP. LANDING EXTENSION FRAME (17)

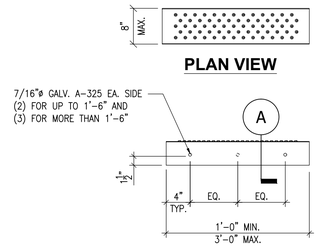


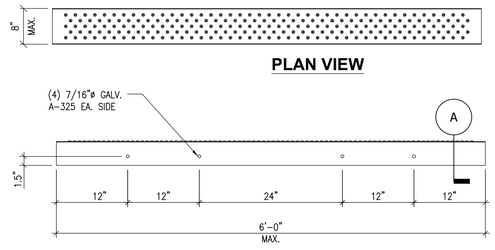
NOTE:

1. ALL LANDINGS AND FLAT SURFACES SHALL BE NON-SKID SLOPPED TO DRAIN WATER AND AVOID ACCUMULATION ON TOP OF DECK SURFACE.
2. ALL LANDINGS AND FLAT SURFACES SHALL HAVE MAXIMUM 1:48 SLOPE IN ALL DIRECTION TO AVOID WATER ACCUMULATION ON TOP OF DECK OR FLAT SURFACE.
3. SEE 9 S9 FOR INFORMATION NOT SHOWN.

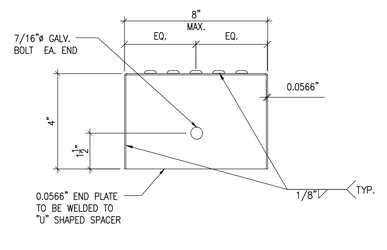
TYP. BOTTOM LANDING DETAIL (7)



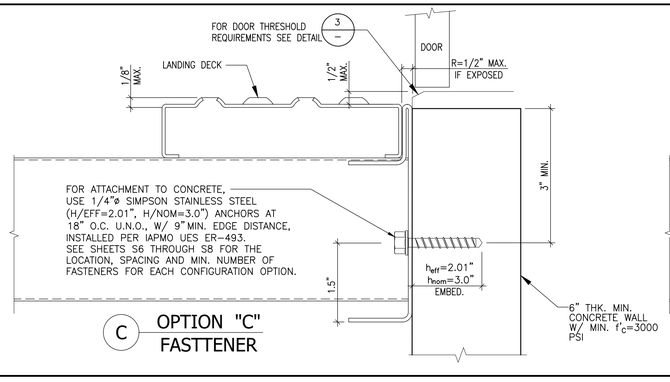


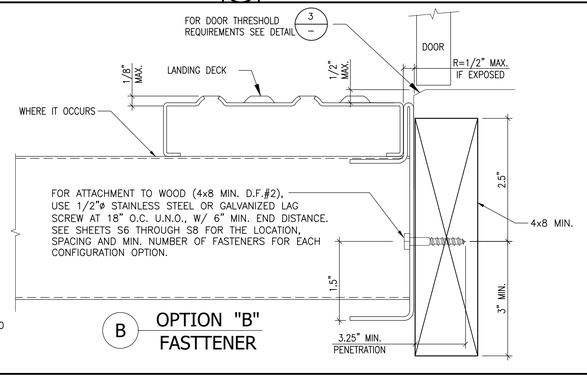


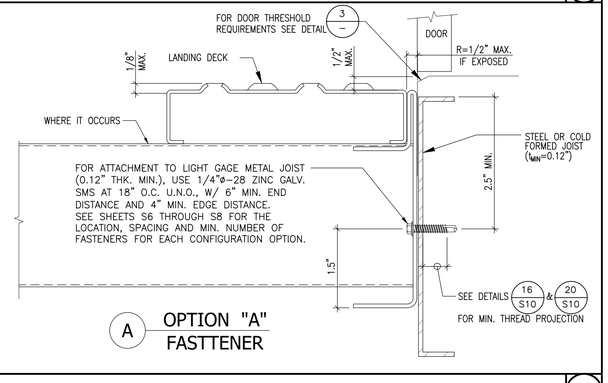
SEE DETAIL 1 — FOR INFORMATION NOT SHOWN.



TYP. SPACER FOR LANDING EXTENSION (10)







TYP. LANDING TO BUILDING CONNECTION DETAILS (DECKING TO SUPPORTS) (1)

PLOT DATE: November 1, 2023

THESE DRAWINGS AND THE MATERIAL CONTAINED HEREIN ARE PROPERTY OF MRH, STRUCTURAL ENGINEERS AND SHALL NOT BE PRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OR THE FURNISHING OF ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE CONSENT OF MRH, STRUCTURAL ENGINEERS. ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATED WITH MRH, STRUCTURAL ENGINEERS, SHALL BE THE PROPERTY OF MRH, STRUCTURAL ENGINEERS.

© MRH, STRUCTURAL ENGINEERS, 2023, ALL RIGHTS RESERVED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

NO.	REVISION	DATE
3		
2		
1		

Quick-Deck Inc.
LOCUST, NC 28097
PHONE: 1(704)888-0327
EMAIL: drachi@quick-deck.com

REGISTERED PROFESSIONAL ENGINEER MUHAMMAD R. HAFIZ
NO. 3545
MRH STRUCTURAL ENGINEERS
STATE OF CALIFORNIA
11/01/2023

M.R.H. STRUCTURAL ENGINEERS
3400 IRVINE AVE., STE. 101
NEWPORT BEACH, CA 92660
(714) 444-8300
MRH@MRHSE.COM

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122493 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 11/01/2023

DIVISION OF THE STATE ARCHITECTS

SHEET TITLE: CONNECTION TO BUILDING, LANDING EXTENSION, BOTTOM LANDING & MISC. DETAILS

DATE	05/22/2023
JOB NO.	23131
FILENAME	DSA 2023 DRAWING (MRH)
REV.	
DRAWN BY	
APPROVED BY	MH
SCALE	N.T.S.
PLOT DATE	11/01/2023
SHEET NUMBER	S20

STANDARD ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
XXXX	FEEDER TAG, SEE FEEDER SCHEDULE.
XX	NUMBERED NOTE.
	ENLARGED PLAN OR DETAIL CALL-OUT.
T	TRANSFORMER.
M	UTILITY METER.
	CIRCUIT BREAKER.
	DISCONNECT SWITCH.
	DISTRIBUTION PANEL/MOTOR CONTROL CENTER.
	TERMINAL CABINET, SURFACE MOUNTED, SIZE AND TYPE AS INDICATED.
	TERMINAL CABINET, FLUSH MOUNTED, SIZE AND TYPE AS INDICATED.
	RACEWAY INSTALLED IN CEILING OR WALL. ROUTE EXPOSED IN ALL UNFINISHED AREAS.
	RACEWAY INSTALLED BELOW FINISHED FLOOR OR GRADE.
	EXISTING CONDUIT RUN, VERIFY ROUTING ON THE JOB.
	ARROW AT END OF RACEWAY INDICATES HOME RUN TO RESPECTIVE PANELBOARD OR SWITCHBOARD.
	BRANCH CIRCUIT WITHOUT FURTHER DESIGNATION INDICATES A 2 #12 AWG CIRCUIT WITH 1 #12 AWG GROUND.
	STRAIGHT CROSS-LINES IN BRANCH CIRCUIT RACEWAY INDICATE NUMBER OF #12 AWG WIRES IN A CIRCUIT. SHORT LINES INDICATE UNGROUNDED CONDUCTORS. LONG LINES INDICATE NEUTRAL CONDUCTORS. WIRES SHOWN ARE IN ADDITION TO 1 #12 AWG GROUNDING CONDUCTOR.
#10	BRANCH CIRCUIT WITH GROUNDING WIRE LARGER THAN #12 AWG. NUMBER ADJACENT TO CURVED CROSS-LINE INDICATES WIRE SIZE.
#10	BRANCH CIRCUIT RACEWAY WITH WIRE OTHER THAN #12 AWG. NUMBER ADJACENT TO STRAIGHT OR CURVED CROSS-LINES INDICATES WIRE SIZE. UNGROUNDED AND NEUTRAL CONDUCTORS SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.
	FLEX CONDUIT.
	INDICATES RACEWAY STUB, TERMINATE W/ BUSHING OR CAP IF UNDERGROUND.
	20 AMP 125V 3W DUPLEX CONVENIENCE RECEPTACLE.
	20 AMP 125V 3W DOUBLE DUPLEX CONVENIENCE RECEPTACLE.

SIGNAL SYSTEMS SYMBOLS

SYMBOL	DESCRIPTION
	DATA OUTLET. NUMBER INDICATES QUANTITY OF ACTIVE NETWORK PORTS/DROPS
C	CHARACTER OUTSIDE DENOTES THE FOLLOWING: = MOUNTED ABOVE COUNTER.
CAM	= LOCATE FOR CAMERA, VERIFY LOCATION AND REQUIREMENTS WITH OWNER.
WAP	= LOCATE FOR WIRELESS ACCESS POINT AT CEILING, INSTALL OWNER FURNISHED WAP.
TV	= LOCATE FOR TV, VERIFY LOCATION AND REQUIREMENTS WITH OWNER.
P	= LOCATE FOR PROJECTOR, VERIFY LOCATION AND REQUIREMENTS WITH OWNER.

FIRE ALARM SYMBOLS

SYMBOL	DESCRIPTION
EOL	FIRE ALARM END OF LINE RESISTOR.
	END OF LINE RESISTOR.
CM	FIRE ALARM CONTROL MODULE.
MM	FIRE ALARM MONITOR MODULE.
SA	FIRE ALARM SYNC ADAPTER MODULE.
F	FIRE ALARM MANUAL PULL STATION.
S	FIRE ALARM PHOTO ELECTRIC SMOKE DETECTOR.
F	FIRE ALARM HORN.
	FIRE ALARM HORN / STROBE COMBINATION.
	FIRE ALARM CEILING MOUNTED STROBE LIGHT.
	FIRE ALARM WALL MOUNTED STROBE LIGHT.
SUBSCRIPTS: AC cd WG WP	FIRE ALARM DEVICE SUBSCRIPTS DESIGNATE THE FOLLOWING: = ABOVE CEILING MOUNTED DEVICE = CANDELA = WIREGUARD = WEATHERPROOF

ABBREVIATIONS

1PH, 3PH	1 PHASE, 3 PHASE
1P, 2P, 3P	1 POLE, 2 POLE, 3 POLE
3W, 4W	3 WIRE, 4 WIRE
(D)	DEMO, DEMOLISH
(E)	EXISTING
(ER)	EXISTING RELOCATED
(N)	NEW
(R)	RELOCATE
	-A-
A, AMPS	AMPERES
AC	ALTERNATING CURRENT
AF	FRAME RATING IN AMPERES
AFF	ABOVE FINISHED FLOOR
AIC	AMPERES INTERRUPTING CAPACITY
AL, ALUM	ALUMINUM
ATS	AUTO TRANSFER SWITCH
AT	TRIP RATING IN AMPERES
AWG	AMERICAN WIRE GAUGE
	-B-
BTR	BUILDING TELECOM ROOM
	-C-
C	CONDUIT
CB,C/B	CIRCUIT BREAKER
CEC	CALIFORNIA ELECTRICAL CODE
CT	CURRENT TRANSFORMER
CU	COPPER
	-D-
DC	DIRECT CURRENT
	-E-
EA	EACH
ELEC	ELECTRICAL
EMT	ELECTRICAL METALLIC TUBING
	-F-
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FLA	FULL LOAD AMPS
FT	FOOT OR FEET
	-G-
G, GND	GROUND
GA	GAUGE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
	-H-
HOA	HAND-OFF-AUTO
HP	HORSE POWER
	-J-
J-BOX	JUNCTION BOX
	-K-
KVA	ONE THOUSAND VOLT-AMPS
KW	ONE THOUSAND WATTS
	-L-
LCP	LIGHTING CONTROL PANEL
LTG	LIGHTING
	-M-
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVER-CURRENT PROTECTION
MT	EMPTY CONDUIT W/ PULL-LINE
	-N-
NC	NORMALLY CLOSED
NCTC	NURSE CALL TERMINAL CABINET
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION
NIES	NOT INCLUDED IN ELECTRICAL SCOPE
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
	-O-
OCP	OVER-CURRENT PROTECTION
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
	-P-
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE CONDUIT
	-R-
RLA	RUNNING LOAD AMP
RSC	RIGID STEEL CONDUIT
	-S-
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
SST	SOLID STATE TRIP
	-T-
TER	TELECOM EQUIPMENT ROOM
TR	TELECOM ROOM
TM	THERMAL MAGNETIC
TTB	TERMINAL BACKBOARD
	-U-
UG	UNDERGROUND
UL	UNDERWRITERS LAB.
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
	-V-
V	VOLTS
VA	VOLT-AMPS
VAC	VOLTS ALTERNATE CURRENT
	-W-
W	WATTS
WCR	WITHSTAND & CLOSING RATING
WP	WEATHERPROOF
	-X-
XFMR	TRANSFORMER
XFER	TRANSFER SWITCH

SHEET INDEX

SHEET	DESCRIPTION
E0.01	ELECTRICAL COVER SHEET
E0.02	ELECTRICAL NOTES
E1.01	ELECTRICAL SITE PLAN
E1.02	SIGNAL SITE PLAN
E1.11	ONE LINE DIAGRAM
E2.01	SIGNAL FLOOR PLAN
E2.02	FIRE ALARM FLOOR PLAN
E3.01	ELECTRICAL DETAILS
E3.02	ELECTRICAL DETAILS
E4.01	FIRE ALARM CALCULATIONS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

aedis architects
www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

SOLANO CCD
SWING SPACE

SOLANO COMMUNITY COLLEGE

SOLANO COMMUNITY COLLEGE DISTRICT

CONSULTANT

EDGE ELECTRICAL ADMINISTRATORS
Project Number K481
Contact CJJ
400 R Street, Ste 333
Sacramento, CA 95811
916.256.2460
Sacramento | Alameda | Irvine

REGISTERED PROFESSIONAL ENGINEER
JAMES DUNN
No. E 017376
ELECTRICAL
STATE OF CALIFORNIA
03/06/2024

STAMP

STATE

DSA FILE NUMBER 48- C1
APPL # 02-122153

REVISIONS

No.	Description	Date
△		

MILESTONES

12.13.2023
01.17.2024
02.09.2024
02.21.2024
03.06.2024

SHEET

ELECTRICAL COVER SHEET

DATE 03/06/24
JOB # 2023052
SHEET # E0.01

WIRE SCHEDULE

TYPE	DESCRIPTION
D	REFER TO SPECIFICATIONS (DATA CABLE)
F	REFER TO SPECIFICATIONS (FIBER OPTIC CABLE)
H	2 #14 THHN/THWN (RED, BLACK) (FIRE ALARM CONVENTIONAL INITIATION WIRING)
HX	2 #12 THHN/THWN (RED, BLACK) (FIRE ALARM CONVENTIONAL INITIATION TRUNK)
I	WEST PENN D980 (FIRE ALARM ADDRESSABLE CABLE)
IX	WEST PENN AQ293 (FIRE ALARM ADDRESSABLE TRUNK)
N	2#12 THHN/THWN (FIRE ALARM NOTIFICATION WIRING)
NX	2#10 THWN (FIRE ALARM NOTIFICATION TRUNK)

NOTES:

1. VERIFY ALL WIRING TYPES AND QUANTITY WITH SYSTEM VENDOR REQUIREMENTS.
2. PROVIDE SPARE CABLES WHERE SHOWN.

FIRE ALARM RECORD DOCUMENTS CABINET

1. THE FIRE ALARM SYSTEM WORK SHALL INCLUDE A DOCUMENTATION CABINET, INSTALLED AT THE SYSTEM CONTROL PANEL OR OTHER APPROVED LOCATION PER NFPA 72, 7.7.2.
2. THE DOCUMENTATION CABINET SHALL BE RED WITH A HINGED, LOCKING DOOR AND SHALL BE PROMINENTLY LABELED "SYSTEM RECORD DOCUMENTS".
3. ALL RECORD AND TESTING DOCUMENTATION SHALL BE STORED INSIDE THE CABINET.
4. CONTENTS SHALL BE ACCESSIBLE BY AUTHORIZED PERSONNEL ONLY.
5. WHERE CABINET IS INSTALLED IN A LOCATION OTHER THAN THE SYSTEM CONTROL UNIT, ITS LOCATION SHALL BE IDENTIFIED AT THE SYSTEM CONTROL UNIT.
6. PROVIDE SYSTEM DOCUMENTS AS APPLICABLE:
   a. RECORD DRAWINGS/AS-BUILTS
   b. EQUIPMENT CUT SHEETS AND CA SFM LISTINGS
   c. ALTERNATIVE MEANS AND METHODS
   d. PERFORMANCE BASED DESIGN DOCUMENTATION (NFPA 72, 7.3.7)
   e. SYSTEM RECORD OF COMPLETION AND ANY SUPPLEMENTAL INSPECTION AND TESTING DOCUMENTATION (NFPA 72, 7.8.2)
   f. EMERGENCY RESPONSE PLAN (NFPA 72, 7.3.8)
   g. EVALUATION DOCUMENTATION (NFPA 72, 7.3.9)
   h. RISK ANALYSIS DOCUMENTATION (NFPA 72, 7.3.6)
   i. SOFTWARE AND FIRMWARE CONTROL DOCUMENTATION (NFPA 72, 23.2.2)

FIRE ALARM GENERAL NOTES

1. FURNISH AND INSTALL EXTENSIONS TO THE EXISTING FIRE ALARM SYSTEM INCLUDING ALL WIRING AND CONNECTIONS AND OTHER MATERIALS AS SHOWN ON PLANS AND SPECIFIED HEREIN. IT IS THE INTENT THAT A COMPLETE OPERATING SYSTEM CONFORMING TO ALL APPLICABLE CODES BE INSTALLED AND THAT ANY POWER SUPPLIES, RELAYS, RESISTORS, CARDS, MODULES, PROGRAMMING, OR OTHER ITEMS REQUIRED TO ACHIEVE THIS END RESULT SHALL BE FURNISHED WHETHER OR NOT SUCH ITEM OR ITEMS ARE SHOWN OR SPECIFIED.
2. THE CONTRACT DRAWINGS AND SPECIFICATIONS INDICATE THE GENERAL SCOPE OF THE FIRE ALARM SYSTEM. THE FIRE ALARM SYSTEM CONTRACTOR SHALL LAYOUT ALL DEVICES, EQUIPMENT, CONDUIT, WIRING, ETC. AND SUBMIT DRAWINGS AS REQUIRED BY THE SPECIFICATIONS. ALL LOCATIONS AND SPACINGS SHALL CONFORM TO APPLICABLE CODES. ANY ADDITIONAL DETECTION AND SIGNALING DEVICES REQUIRED BY CODES AND THE ENFORCING AUTHORITY SHALL BE PROVIDED AS PART OF THIS CONTRACT.
3. THE SYSTEM SHALL BE FULLY AUTOMATIC WITH MANUAL STATIONS AT MAIN OFFICE AND IN ASSEMBLY AREAS.
4. THE SYSTEM SHALL BE ADDRESSABLE WITH CLASS B SIGNALING CIRCUITS (NAC'S) AND CLASS B WIRING FOR NON-ADDRESSABLE PORTIONS OF INITIATION CIRCUITS.
5. INSTALLATION OF THE FIRE ALARM SYSTEM EQUIPMENT SHALL NOT BE STARTED UNTIL SUBMITTAL HAS BEEN APPROVED BY ARCHITECT.
6. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE FOLLOWING CODES:
   CALIFORNIA BUILDING CODE (CBC)
   CALIFORNIA ELECTRICAL CODE (CEC)
   CALIFORNIA FIRE CODE (CFC)
   NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) NFPA 72 WITH CALIFORNIA AMENDMENTS
7. IF FIRE ALARM TESTING RESULTS DETERMINE ALARM AUDIBILITY DOES NOT REACH 15db OVER AMBIENT NOISE LEVELS, ADDITIONAL SIGNALING DEVICES SHALL BE REQUIRED. AUDIBLE DEVICES SHALL PROVIDE A SOUND LEVEL OF NOT LESS THAN 75db AT 10 FT. OR MORE THAN 110db MAXIMUM.
8. AUDIBLE DEVICES SHALL PROVIDE THE CALIFORNIA UNIFORM FIRE ALARM SIGNAL IN TEMPORAL MODE.
9. VISUAL DEVICES SHALL NOT EXCEED 2 FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN 1 FLASH PER SECOND. ALL DEVICES WITHIN THE NORMAL VIEW RANGE SHALL BE SYNCHRONIZED.
10. REFER TO DETAIL FOR DEVICE MOUNTING HEIGHTS.
11. UPON COMPLETION OF THE INSTALLATION OF THE FIRE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE PROJECT INSPECTOR/DSA.
12. POWER SERVICE FOR FIRE ALARM CONTROL PANELS AND/OR REMOTE POWER SUPPLIES SHALL BE ON DEDICATED CIRCUITS. CIRCUIT BREAKER HANDLES FOR SUCH DEDICATED CIRCUITS SHALL BE PAINTED RED AND IDENTIFIED IN DIRECTORY AS "FIRE ALARM CIRCUIT". CIRCUIT BREAKER(S) SERVING CONTROL PANELS AND POWER SUPPLIES SHALL BE EQUIPPED WITH HANDLE LOCKS TO PREVENT BREAKERS FROM BEING OPENED BY UNAUTHORIZED PERSONS.
13. THE LOCATION OF THE DEDICATED CIRCUIT BREAKER SERVING CONTROL PANELS AND POWER SUPPLIES SHALL BE PERMANENTLY IDENTIFIED AT THE CONTROL PANELS AND POWER SUPPLIES. PROVIDE ADHESIVE BACKED NAMEPLATE TO READ "DEDICATED 120V CIRCUIT FROM _____" WITH CIRCUIT NUMBER INCLUDED IN TEXT. ATTACH TO INSIDE OF DOOR.
14. FINAL FIRE TEST SHALL BE MADE WITH PROJECT INSPECTOR AS A MINIMUM. LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL FIRE ALARM TESTING AND SHALL ASSIST/WITNESS SUCH TESTING WHEN ABLE.
15. FIRE ALARM CONTRACTOR SHALL PROVIDE A "RECORD OF COMPLETION" TO THE PROJECT INSPECTOR/ DSA AFTER COMPLETION OF THE OPERATIONAL ACCEPTANCE TESTS. THE RECORD OF COMPLETION MUST BE SIGNED BY CONTRACTOR.

FIRE ALARM MONITORING NOTE

AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011. SUPERVISION OF SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY OWNER.

MEP COMPONENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 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 110/120 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MATTER 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 SUPPORTS THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

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

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 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 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 (OSHPD) PRE-APPROVAL (OPM #) #0052-13.

ELECTRICAL SCOPE NOTE

THESE ELECTRICAL DRAWINGS INDICATE THE GENERAL SCOPE OF THE PROJECT IN TERMS OF ELECTRICAL DESIGN CONCEPT, MAJOR ELECTRICAL ELEMENTS, AND THE TYPE OF ELECTRICAL SYSTEMS. AS SCOPE DOCUMENTS, THESE DRAWINGS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK REQUIRED FOR FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS. ON THE BASIS OF THE GENERAL SCOPE INDICATED OR DESCRIBED, THE CONTRACTOR SHALL FURNISH ALL ITEMS REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.

GENERAL NOTES

1. ALL WORK SHOWN IS NEW UNLESS NOTED AS EXISTING.
2. EXISTING UNDERGROUND UTILITIES ARE PRESENT, BUT THEIR EXACT LOCATIONS ARE NOT KNOWN. CONTRACTOR SHALL LOCATE AND PROTECT BEFORE TRENCHING OR EXCAVATING IN ANY AREA. CONSULT UTILITY COMPANIES, "AS-BUILT" DRAWINGS, AND SCHOOL MAINTENANCE PERSONNEL FOR LOCATION OF EXISTING UNDERGROUND WORK. IF EXISTING PIPING OR UTILITIES ARE DAMAGED DURING CONSTRUCTION, CONTRACTOR SHALL REPAIR IMMEDIATELY AT OWN EXPENSE. NEW UNDERGROUND SHALL BE MODIFIED AS NECESSARY TO CONFORM TO EXISTING CONDITIONS.
3. INFORMATION GIVEN, CONCERNING EXISTING ELECTRICAL INSTALLATION IS AS EXACT AS COULD BE SECURED, BUT EXTREME ACCURACY IS NOT GUARANTEED. CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BIDS AND SATISFY HIMSELF AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED.
4. EXISTING CIRCUITS AND SERVICES SHALL NOT BE INTERRUPTED EXCEPT BY SPECIFIC APPROVAL OF THE SCHOOL. ALL SHUTDOWNS SHALL BE SCHEDULED WITH THE SCHOOL.
5. ALL INTERIOR CONDUIT SHALL BE RUN CONCEALED. FISH FLEX IN EXISTING WALLS AND USE CUT-IN BOXES, UNLESS NOT POSSIBLE. WHERE CONDUIT MUST RUN EXPOSED, PROVIDE WIREMOLD SURFACE NONMETALLIC RACEWAY, SIZE AS REQUIRED (800 SERIES MINIMUM SIZE). ROUTE AS INCONSPICUOUS AS POSSIBLE. MAKE ANGLES CUTS AS REQUIRED. ATTACH TO WALL WITH SCREWS SPACED 48" MAX. SCREWS MUST PENETRATE STRUCTURAL MEMBERS WITH 1" PENETRATION. COORDINATE ROUTING WITH ARCHITECT PRIOR TO INSTALLATION.
6. CONTRACTOR SHALL VISIT SITE PRIOR TO BIDDING AND WALK ROUTES OF NEW UNDERGROUND CONDUITS. NOTE AREAS OF CONCRETE AND ASPHALT BEING CROSSED AND INCLUDE IN BID ALL COSTS FOR CUTTING AND PATCHING AS SHOWN ON DETAILS.
7. PROVIDE TRAFFIC RATED (H/20 LOAD) COVER AND BOXES FOR ALL PULLBOXES UNLESS SPECIFICALLY NOTED OTHERWISE.
8. REFER TO DETAILS ON STRUCTURAL DRAWINGS FOR PENETRATION REQUIREMENTS THROUGH FRAMING TOP PLATES, SILL PLATES, BEAMS, JOIST, RAFTERS, ETC. PROVIDE NOTCHING BORING, DRILLING, ANCHOR BOLTS AND OTHER WORK IN STRICTEST CONFORMANCE TO STRUCTURAL DETAILS.
9. PROVIDE GROUND ROD AND GROUND BOX AT EACH RELOCATABLE CLASSROOM AND CONNECT TO (E) PANEL, METAL WATER PIPING, AND BUILDING STEEL FRAME. SEE "GROUNDING DETAIL".
10. PORTABLE BUILDINGS HAVING NON-PINNED SLIDING FOUNDATIONS SHALL BE CONNECTED USING 10. FLEXIBLE CONDUIT PER DETAILS. PORTABLE BUILDINGS WITH NON-SLIDING PINNED FOUNDATIONS SHALL BE CONNECTED WITH RIGID CONDUIT, TIGHT TO BUILDING (FLEX CONNECTIONS WILL NOT BE ACCEPTABLE). VERIFY FOUNDATION TYPE WITH INSPECTOR OF RECORD OR DISTRICT PRIOR TO INSTALLATION OF ANY CONDUIT ON BACK OF BUILDING.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

aedis architects
www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

SOLANO CCD SWING SPACE

SOLANO COMMUNITY COLLEGE

SOLANO COMMUNITY COLLEGE DISTRICT

CONSULTANT

EDGE ELECTRICAL ADMINISTRATION
Project Number K481
Contact CJJ
400 R Street, Ste 333
Sacramento, CA 95811
916.256.2460
Sacramento | Alameda | Irvine

REGISTERED PROFESSIONAL ENGINEER
No. E 017376
ELECTRICAL
STATE OF CALIFORNIA
03/06/2024

STAMP

STATE

DSA FILE NUMBER 48- C1

APPL # 02-122153

REVISIONS

No.	Description	Date
△		

MILESTONES

12.13.2023
01.17.2024
02.09.2024
02.21.2024
03.06.2024

SHEET

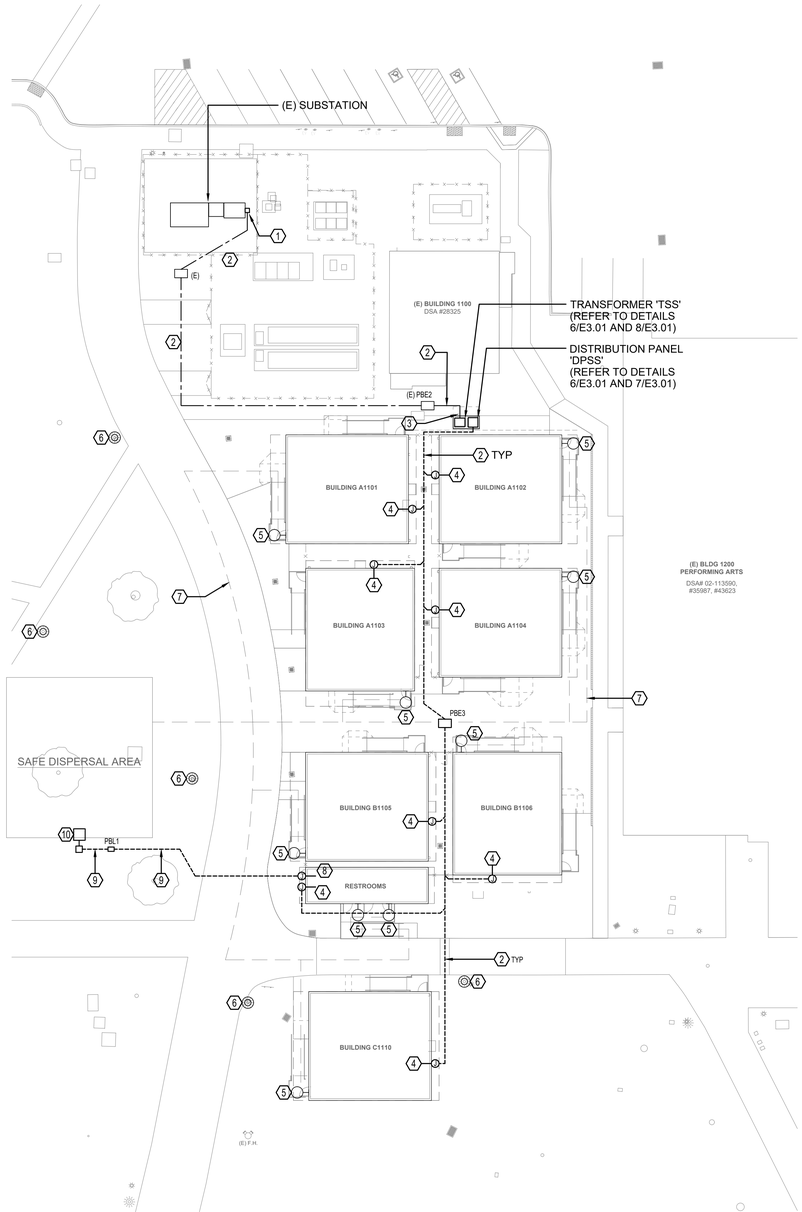
ELECTRICAL NOTES

DATE 03/06/24

JOB # 2023052

SHEET #

E0.02



1 ELECTRICAL SITE PLAN
1" = 20'-0"

NORTH

NUMBERED NOTES

1. CONNECT TO (E) CONDUIT STUBS AND EXTEND UP THE ENCLOSURE EXTERIOR. PROVIDE AN EXTERNAL NEMA 3R BREAKER. FIELD VERIFY EXACT REQUIREMENTS.
2. FEEDER PER ONE LINE.
3. LOCATE (E) CONDUIT STUBS AND EXTEND TO THE TRANSFORMER.
4. CONNECT PANEL PROVIDED WITH BUILDING, TYPICAL.
5. EXTERIOR LIGHT FIXTURE PROVIDED WITH BUILDING PROVIDING LIGHTING FOR THE PATH OF TRAVEL. SHOWN FOR REFERENCE.
6. (E) POST TOP LIGHT FIXTURE PROVIDING LIGHTING FOR THE PATH OF TRAVEL, SHOWN FOR REFERENCE.
7. PATH OF TRAVEL TO THE SAFE DISPERSAL AREA, TYPICAL.
8. EXTEND CIRCUIT TO BUILDING PANEL AND PROVIDE A (N) 20/1 BREAKER.
9. 1"C-2#10, 1#10G.
10. GARDCO LIGHT FIXTURE:
ECF-L-96L-1A-NW-G2-AR-4-120-IMR13-PCB AND A 25' X 4" SQUARE ALUMINUM POLE. ARCHITECT TO SELECT FINISH.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

aedis architects
www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

SOLANO CCD
SWING SPACE

SOLANO COMMUNITY
COLLEGE DISTRICT

CONSULTANT

EDGE ELECTRICAL ADMINISTRATORS
Project Number K481
Contact CJJ
400 R Street, Ste 333
Sacramento, CA 95811
916.256.2460
Sacramento | Alameda | Irvine

REGISTERED PROFESSIONAL ENGINEER
JAMES DUNAY
No. E 017376
ELECTRICAL
STATE OF CALIFORNIA
03/06/2024

STAMP

STATE

DSA FILE NUMBER 48- C1
APPL # 02-122153

REVISIONS

No.	Description	Date
△		

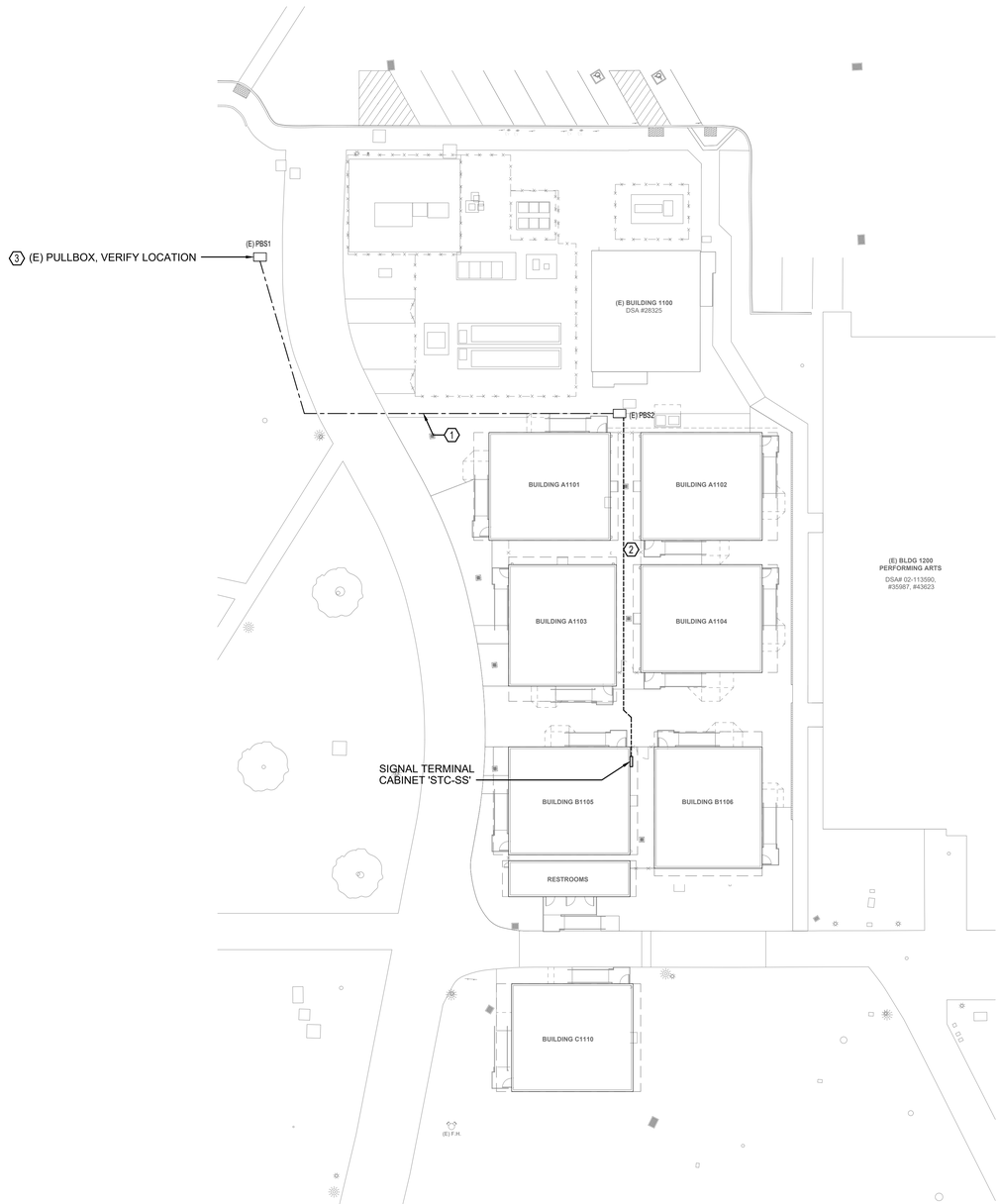
MILESTONES

12.13.2023
01.17.2024
02.09.2024
02.21.2024
03.06.2024

SHEET

ELECTRICAL SITE PLAN

DATE 03/06/24
JOB # 2023052
SHEET # E1.01



1 SIGNAL SITE PLAN
1" = 20'-0"

NORTH

NUMBERED NOTES

1. (E) (2) 3.00"MT. PROVIDE 1F IN (1) 3.00"MT.
2. 3.00"C-1F; 3.00"MT.
3. CONNECT INTO (E) FIBER LOOP FOR DATA AND FIRE ALARM.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

aedis architects
www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

SOLANO CCD
SWING SPACE

SOLANO COMMUNITY
COLLEGE DISTRICT

CONSULTANT

EDGE ELECTRICAL ADMINISTRATORS
Project Number K481
Contact CJJ
400 R Street, Ste 333
Sacramento, CA 95811
916.256.2460
Sacramento | Alameda | Irvine

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER JAMES JOHNS
No. E 017376
ELECTRICAL
STATE OF CALIFORNIA
03/06/2024

STAMP

STATE

DSA FILE NUMBER 48- C1
APPL # 02-122153

REVISIONS

No.	Description	Date
△		

MILESTONES

12.13.2023
01.17.2024
02.09.2024
02.21.2024
03.06.2024

SHEET

SIGNAL SITE PLAN

DATE 03/06/24
JOB # 2023052
SHEET # E1.02

COPPER FEEDER SCHEDULE

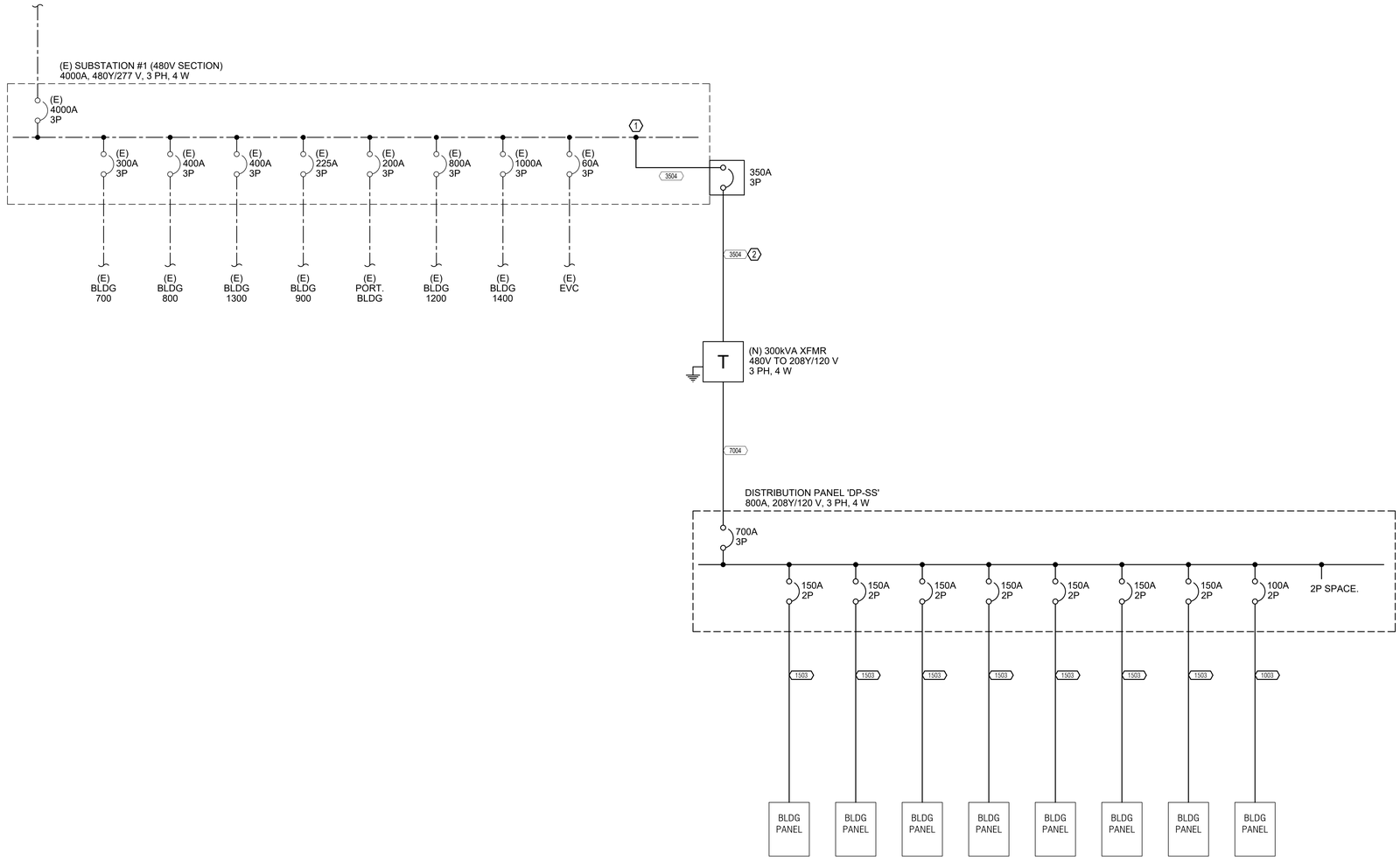
FEEDER TAG	FEEDER DESCRIPTION	CONDUIT	CONDUCTORS		NOTES
			PHASE/NEUTRAL	GROUND	
7004	700 AMP, 3 PHASE, 4 WIRE	2-3.50"	2 SETS OF 4 #500 KCMIL	1 #1/0 AWG PER SET	-
4004	400 AMP, 3 PHASE, 4 WIRE	2-2.50"	2 SETS OF 4 #4/0 AWG	1 #2 AWG PER SET	-
3504	350 AMP, 3 PHASE, 3 WIRE	2-3.00"	2 SETS OF 3 #3/0 AWG	1 #2 AWG	-
1503	150 AMP, 3 PHASE, 3 WIRE	1-1.50"	3 #1/0 AWG	1 #6 AWG	-
1003	100 AMP, 3 PHASE, 3 WIRE	1-1.25"	3 #1 AWG	1 #8 AWG	-

FEEDER SCHEDULE GENERAL NOTES:

1. CONDUCTORS AND CONDUITS SHOWN IN THIS SCHEDULE ARE BASED ON COPPER CONDUCTORS WITH THHN/THWN-2 INSULATION.
2. FEEDERS CONSISTING OF MULTIPLE SETS OF CONDUCTORS AND CONDUITS ARE TO BE PROVIDED WITH THE INDICATED SIZE GROUND CONDUCTOR IN EACH CONDUIT.
3. DO NOT PROVIDE GROUNDED CONDUCTOR FOR SERVICE ENTRANCE FEEDERS.

NUMBERED NOTES

1. TAP (E) BUSSING.
2. INSTALL IN (E) CONDUIT.



1 ONE LINE DIAGRAM
NO SCALE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

aedis architects
www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

SOLANO CCD
SWING SPACE

SOLANO COMMUNITY COLLEGE DISTRICT

CONSULTANT

EDGE ELECTRICAL ADMINISTRATORS
Project Number K481
Contact CJJ
400 R Street, Ste 333
Sacramento, CA 95811
916.256.2460
Sacramento | Alameda | Irvine

LICENSED PROFESSIONAL ENGINEER
JOSHUA DUNAY
No. E 017376
ELECTRICAL
STATE OF CALIFORNIA
03/06/2024

STAMP

STATE
DSA FILE NUMBER 48- C1
APPL # 02-122153

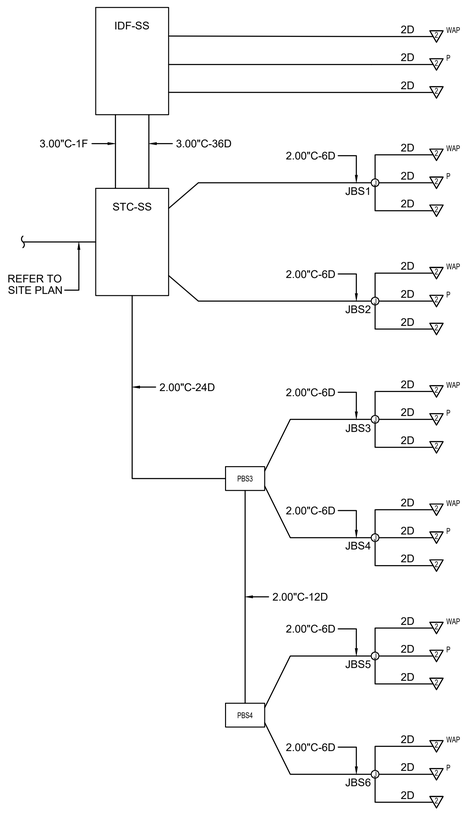
REVISIONS

No.	Description	Date
△		

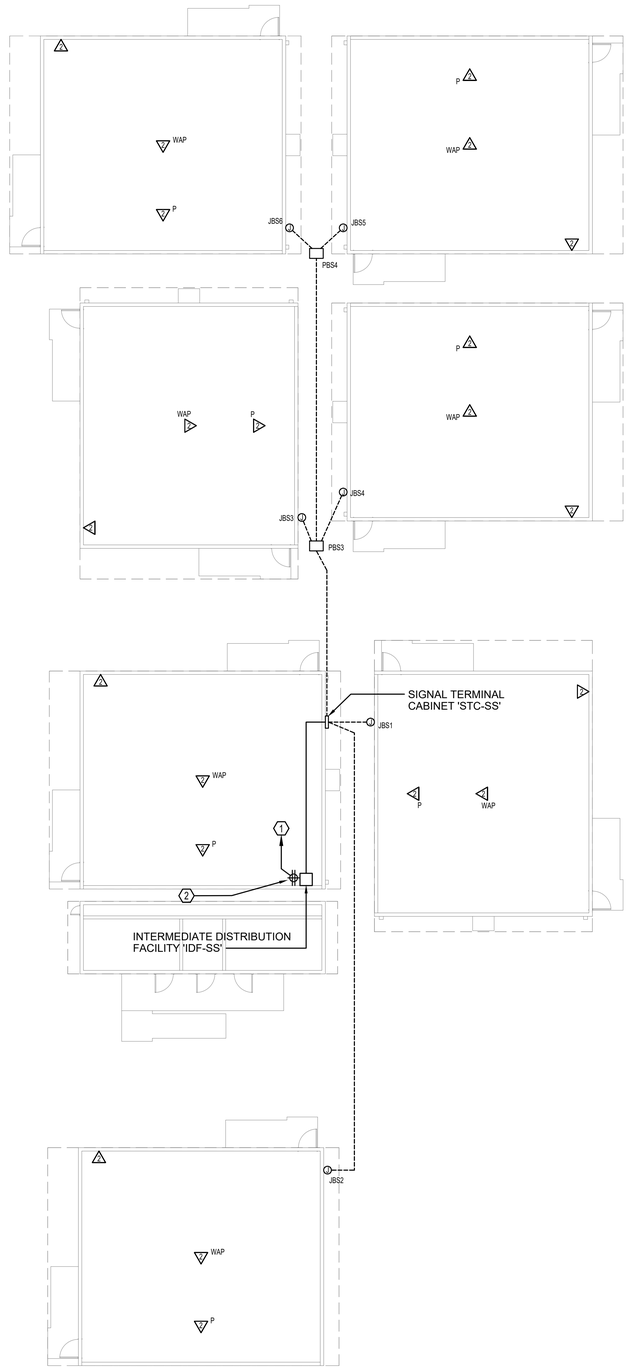
MILESTONES
12.13.2023
01.17.2024
02.09.2024
02.21.2024
03.06.2024

SHEET
ONE LINE DIAGRAM

DATE 03/06/24
JOB # 2023052
SHEET # E1.11



2 SIGNAL RISER DIAGRAM
NO SCALE



NOTES: 1. REFER TO RISER DIAGRAM FOR CONDUIT AND WIRE REQUIREMENTS.

2. VERIFY OUTLET LOCATIONS WITH OWNER.

1 SIGNAL FLOOR PLAN
1" = 10'-0"

NORTH

NUMBERED NOTES

1. 0.75"C-2#12, 1#12G TO BUILDING PANEL. PROVIDE A 20/1 BREAKER. UPDATE CIRCUIT DIRECTORY.
2. LOCATE FOR THE IDF.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

aedis architects
www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

SOLANO CCD
SWING SPACE

SOLANO COMMUNITY
COLLEGE DISTRICT

CONSULTANT

EDGE ELECTRICAL ADMINISTRATORS
Project Number K481
Contact CJJ
400 R Street, Ste 333
Sacramento, CA 95811
916.256.2460
Sacramento | Alameda | Irvine

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER JAMES DUNAY
No. E 017376
ELECTRICAL
STATE OF CALIFORNIA
03/06/2024

STAMP

STATE

DSA FILE NUMBER 48- C1
APPL # 02-122153

REVISIONS

No.	Description	Date
△		

MILESTONES

12.13.2023
01.17.2024
02.09.2024
02.21.2024
03.06.2024

SHEET

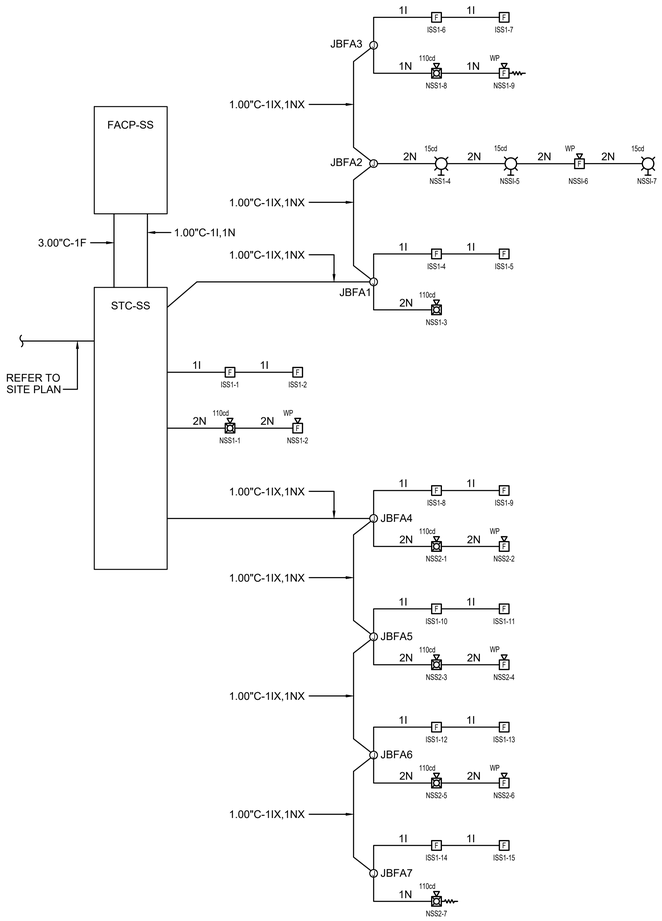
SIGNAL FLOOR PLAN

DATE 03/06/24

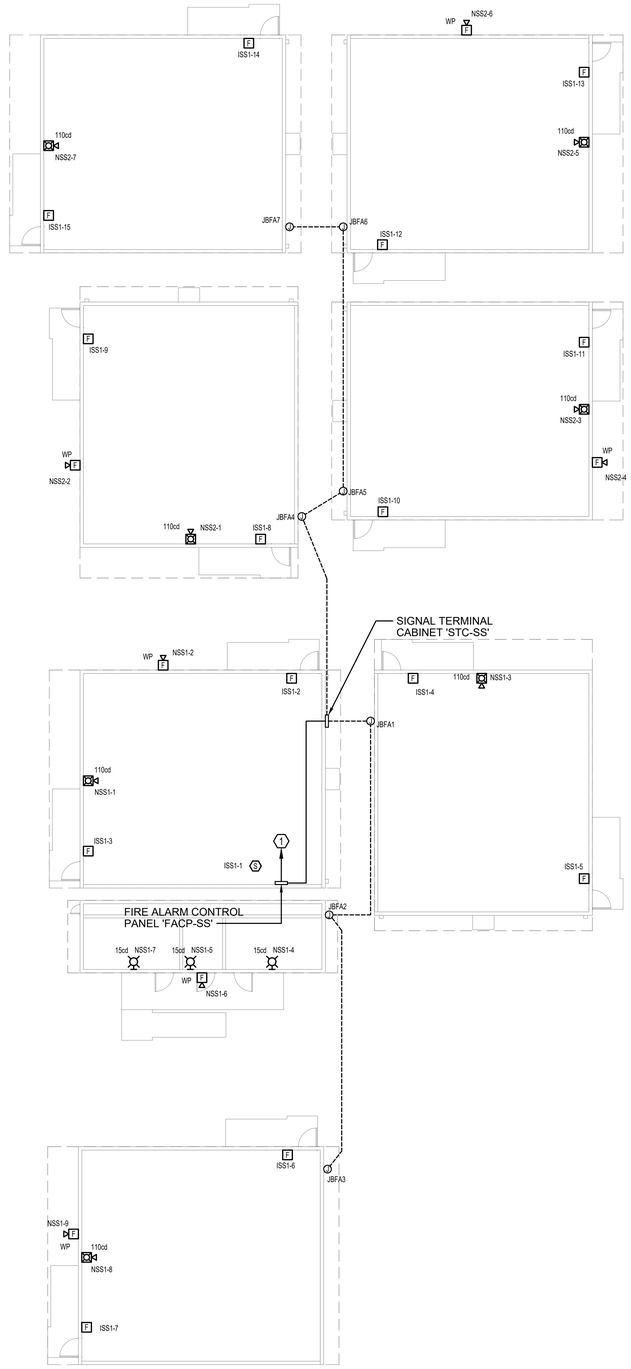
JOB # 2023052

SHEET #

E2.01



2 SIGNAL RISER DIAGRAM
NO SCALE



NOTE: REFER TO RISER DIAGRAM FOR CONDUIT AND WIRE REQUIREMENTS.

1 SIGNAL FLOOR PLAN
1" = 10'-0"

NUMBERED NOTES

1. 0.75"C-2#12, 1#12G TO BUILDING PANEL. PROVIDE A 20/1 BREAKER. UPDATE CIRCUIT DIRECTORY.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

aedis architects
www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

SOLANO CCD
SWING SPACE

SOLANO COMMUNITY COLLEGE DISTRICT

CONSULTANT

EDGE ELECTRICAL ADMINISTRATORS
Project Number K481
Contact CJJ
400 R Street, Ste 333
Sacramento, CA 95811
916.256.2460
Sacramento | Alameda | Irvine

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER JAMES JUNIS DUNAT
No. E 017376
ELECTRICAL
STATE OF CALIFORNIA
03/06/2024

STAMP

STATE

DSA FILE NUMBER 48- C1
APPL # 02-122153

REVISIONS

No.	Description	Date
△		

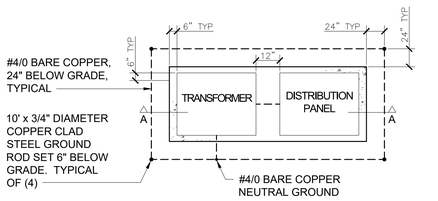
MILESTONES

12.13.2023
01.17.2024
02.09.2024
02.21.2024
03.06.2024

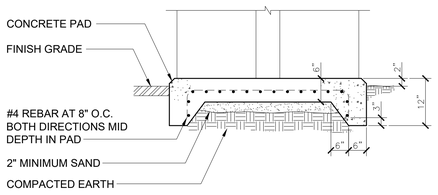
SHEET

FIRE ALARM FLOOR PLAN

DATE 03/06/24
JOB # 2023052
SHEET # E2.02



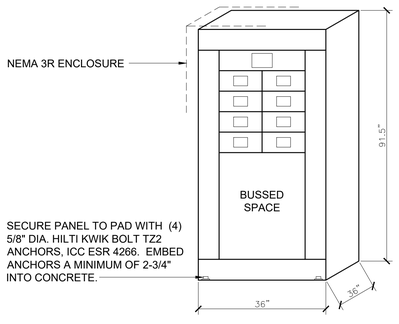
PLAN



SECTION A-A

6 EQUIPMENT PAD DETAIL

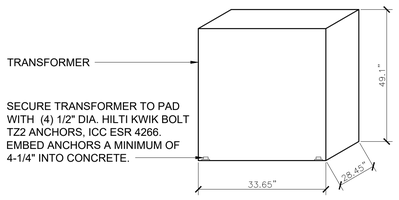
NO SCALE



MAX WEIGHT = 1200 LBS.

7 DISTRIBUTION PANEL ELEVATION

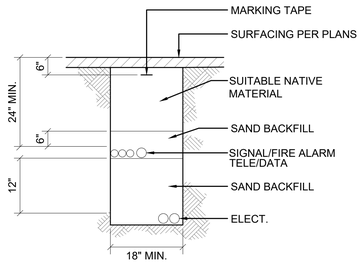
NO SCALE



MAX WEIGHT = 1900 LBS.

8 TRANSFORMER ELEVATION

NO SCALE

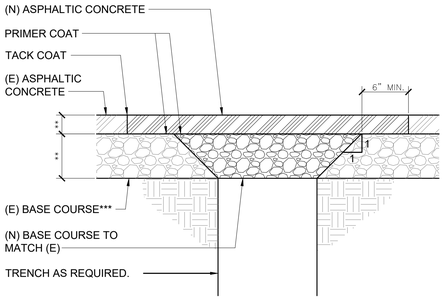


NOTES:

1. BOTTOM OF TRENCH SHALL BE SQUARE AND CLEAN.
2. REFER TO PLANS FOR QUANTITY AND SIZES OF CONDUITS.
3. NATIVE MATERIALS SHALL BE NATIVE TO THE PROJECT SITE, FREE OF WOOD, ORGANICS, AND OTHER DELETERIOUS SUBSTANCES. ROCKS SHALL NOT BE GREATER THAN 3" INCHES.
4. SAND SHALL BE FINE GRANULAR MATERIAL, FREE OF ORGANIC MATTER, MICA, LOAM OR CLAY.

3 JOINT UTILITY TRENCH DETAIL

NO SCALE



NOTE: PROVIDE SEAL COAT OVER NEW WORK AND EXTEND A MINIMUM OF 12" OVER EXISTING ASPHALT.

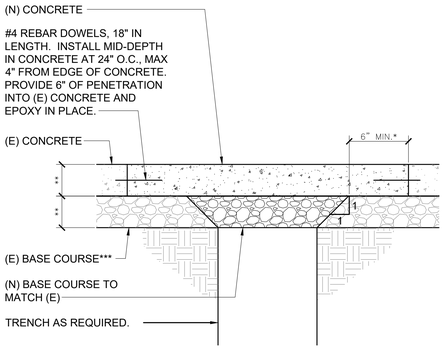
* WHERE JOINT EXISTS WITHIN 18" OF CUT, REMOVE CONCRETE TO (E) JOINT.

** TO MATCH (E).

*** (E) BASE COURSE TO BE PROTECTED AND TO REMAIN UNDISTURBED TO PREVENT LOSS OF DENSITY AND SUPPORT UNDER (E) CONCRETE.

4 ASPHALTIC CONCRETE REPAIR DETAIL

NO SCALE



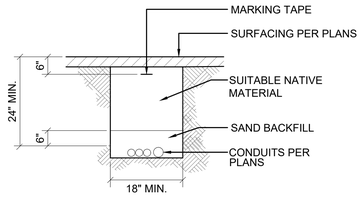
* WHERE JOINT EXISTS WITHIN 18" OF CUT, REMOVE CONCRETE TO (E) JOINT.

** TO MATCH (E).

*** (E) BASE COURSE TO BE PROTECTED AND TO REMAIN UNDISTURBED TO PREVENT LOSS OF DENSITY AND SUPPORT UNDER (E) CONCRETE.

5 CONCRETE REPAIR DETAIL

NO SCALE

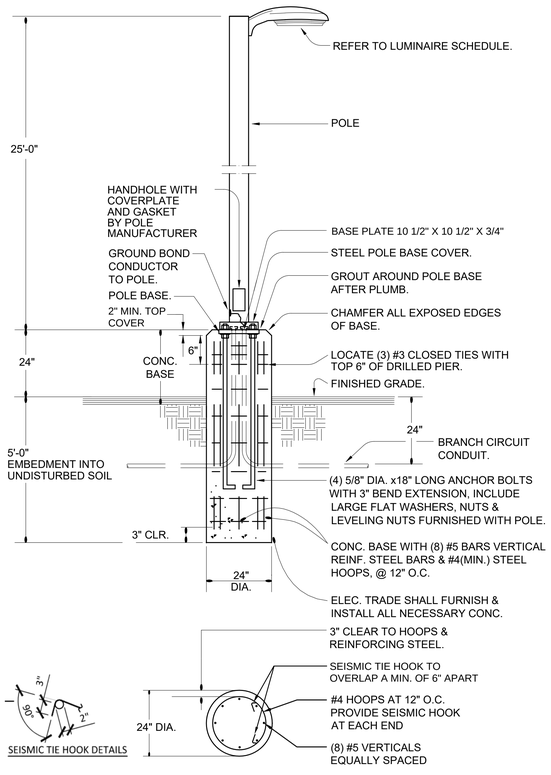


NOTES:

1. BOTTOM OF TRENCH SHALL BE SQUARE AND CLEAN.
2. REFER TO PLANS FOR QUANTITY AND SIZES OF CONDUITS.
3. NATIVE MATERIALS SHALL BE NATIVE TO THE PROJECT SITE, FREE OF WOOD, ORGANICS, AND OTHER DELETERIOUS SUBSTANCES. ROCKS SHALL NOT BE GREATER THAN 3" INCHES.
4. SAND SHALL BE FINE GRANULAR MATERIAL, FREE OF ORGANIC MATTER, MICA, LOAM OR CLAY.

2 UTILITY TRENCH DETAIL

NO SCALE



9 POLE LIGHT DETAIL - RAISED BASE

NO SCALE

PULLBOX INDEX

TYPE	MFGR	INTERIOR DIM.	EXTENSION	LID
N09	CHRISTY	10-1/4" x 16-3/4"	12"	NOTE 1
N16	CHRISTY	11-3/4" x 22-1/4"	12"	NOTE 1
N30	CHRISTY	13-1/4" x 24-1/4"	12"	NOTE 1
N36	CHRISTY	17-1/8" x 30-1/4"	12"	NOTE 1
N40	CHRISTY	24-1/2" x 36"	10"	NOTE 1
N48	CHRISTY	30-1/4" x 48"	10"	NOTE 1
N52	CHRISTY	30" x 60"	10"	NOTE 1
B1017	CHRISTY	11-7/8" x 18-1/2"	12"	NOTE 2
B1324	CHRISTY	14-1/4" x 25"	12"	NOTE 2
B1730	CHRISTY	18-1/4" x 30-1/4"	12"	NOTE 2
B2436	CHRISTY	26-1/2" x 38-1/8"	12"	NOTE 2
B3048	CHRISTY	31" x 49-1/2"	12"	NOTE 2
35TA	JENSEN	36" x 60"	12"	NOTE 3
36TA	JENSEN	36" X 72"	12"	NOTE 3
466TA	JENSEN	48" x 78"	12"	NOTE 3

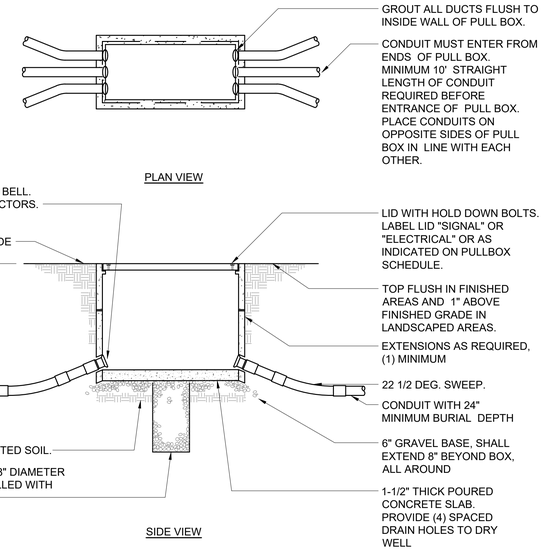
PULLBOX SCHEDULE

TAG	TYPE*	MARKING
PBE1	(E)	ELECTRICAL
PBE2	(E)	ELECTRICAL
PBE3	B3048	ELECTRICAL
PBS1	(E)	SIGNAL
PBS2	(E)	SIGNAL
PBS3	N40	SIGNAL
PBS4	N40	SIGNAL
PBL1	N16	LIGHTING

NOTES:

1. PROVIDE CONCRETE LID AT ASPHALT OR CONCRETE WALKWAY. PROVIDE GALVANIZED STEEL CHECKER PLATE LID IN ALL OTHER NON-VEHICULAR AREAS.
2. PROVIDE GALVANIZED STEEL CHECKER PLATE H20 TRAFFIC RATED LID.
3. PROVIDE SPRING ASSISTED H20 TRAFFIC RATED LID WITH NON-SLIP SURFACE.

* REFER TO PULLBOX INDEX FOR PULLBOX REQUIREMENTS.



NOTES:

1. PROVIDE CONCRETE LID AT ASPHALT OR CONCRETE WALKWAY. PROVIDE GALVANIZED STEEL CHECKER PLATE LID AT ALL OTHER NON-VEHICULAR AREAS.
2. AT VEHICULAR TRAFFIC AREAS, PULLBOXES, EXTENSIONS AND LIDS SHALL BE TRAFFIC (H20) RATED. SLAB SHALL BE REINFORCED CONCRETE.

1 PULLBOX DETAIL

NO SCALE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

aedis architects
www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

SOLANO CCD SWING SPACE

SOLANO COMMUNITY COLLEGE

SOLANO COMMUNITY COLLEGE DISTRICT

CONSULTANT

EDGE ELECTRICAL ADMINISTRATORS
Project Number K481
Contact CJJ
400 R Street, Ste 333
Sacramento, CA 95811
916.256.2460
Sacramento | Alameda | Irvine

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER JAMES DUNN
No. E 017376
ELECTRICAL
STATE OF CALIFORNIA
03/06/2024

STAMP

STATE

DSA FILE NUMBER 48- C1
APPL # 02-122153

REVISIONS

No.	Description	Date
△		

MILESTONES

12.13.2023
01.17.2024
02.09.2024
02.21.2024
03.06.2024

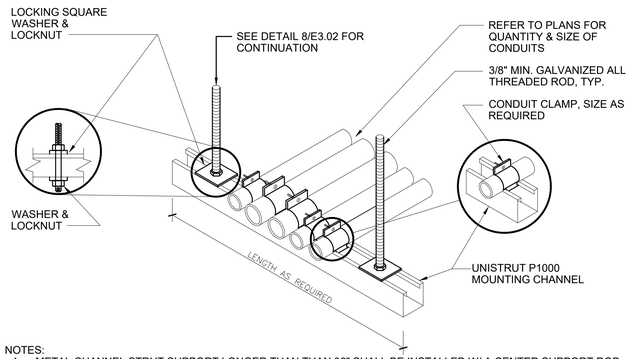
SHEET

ELECTRICAL DETAILS

DATE 03/06/24

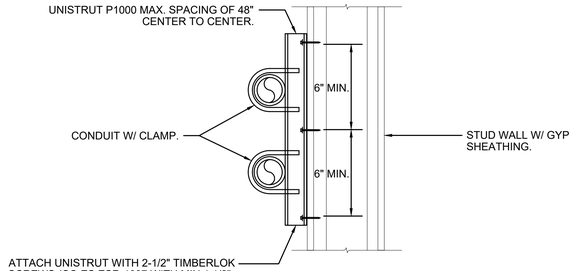
JOB # 2023052

SHEET # E3.01



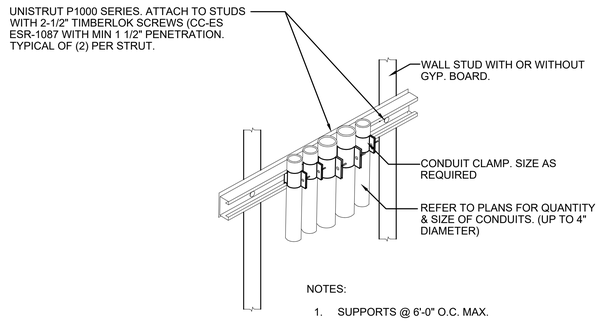
NOTES:
1. METAL CHANNEL STRUT SUPPORT LONGER THAN THAN 36" SHALL BE INSTALLED W/ A CENTER SUPPORT ROD.
2. FOR TRAPEZE INSTALLATIONS IN SEISMIC AREAS, REFER TO STRUCTURAL SPECIFICATION SEISMIC RESTRAINT REQUIREMENTS FOR NON-STRUCTURAL COMPONENTS.
3. THE TOTAL WEIGHT OF THE RACEWAY SUPPORT BY TRAPEZE ASSEMBLIES IS LESS THAN 100LB (10 LBS/FT AT 10'-0" MAXIMUM TRAPEZE SPACING) AND THE LENGTH FROM THE CONDUIT SUPPORT TO THE SUPPORTING STRUCTURE IS 12" OR LESS.
4. FOR WEIGHT MORE THAN 10 LB/FT & LESS THAN 30 LB/FT, REFER TO OPM DETAILS.
5. SPACING BETWEEN SUPPORTS SHALL BE 10' MAX.
6. PLACEMENT OF TRAPEZE SHALL NOT OBSTRUCT THE REMOVAL AND/OR INSTALLATION OF CEILING MATERIALS WHETHER FOR CONSTRUCTION OR MAINTENANCE.

5 DETAIL - CONDUIT TRAPEZE MOUNTING
SCALE: NONE



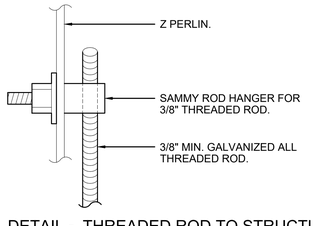
NOTES:
1. FOR 3/4" TO 2" CONDUIT, SUPPORTS @ 10'-0" OC MAX., MAX. WEIGHT PER CONNECTION IS 20 LBS.
2. FOR 3" CONDUIT, SUPPORTS @ 6'-0" OC MAX., MAX. WEIGHT PER CONNECTION IS 50 LBS.
3. FOR 4" CONDUIT, SUPPORTS @ 4'-0" OC MAX., MAX. WEIGHT PER CONNECTION IS 55 LBS.

6 DETAIL - HORIZONTAL CONDUIT TO WALL
SCALE: NONE

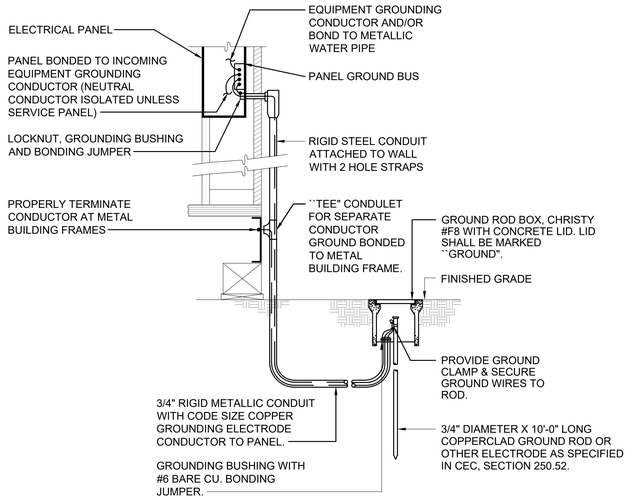


NOTES:
1. SUPPORTS @ 6'-0" O.C. MAX.

7 DETAIL - CONDUIT SUPPORT
SCALE: NONE

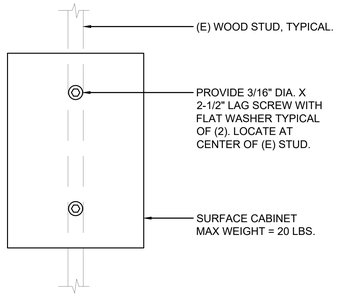


8 DETAIL - THREADED ROD TO STRUCTURE
SCALE: NONE



1. SIZE OF CONDUCTORS SHALL COMPLY CEC TABLE 250.66.
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL 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 (CEC250.52).
3. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND ROD GREATER SIX FEET AWAY (CEC 250.56). ONCE THE SECOND GROUND ROD IS INSTALLED, ADDITIONAL GROUND RESISTANCE TESTING IS NOT REQUIRED.
4. WHERE MODULAR BUILDINGS ARE GROUPED TOGETHER, A GROUND ROD MAY BE INSTALLED AT THE END BUILDINGS AND GROUND RING MAY BE INSTALLED BETWEEN THEM. EACH INTERMEDIATE MODULAR BUILDING MAY BE BONDED TO THAT GROUNDING RING. WHERE THIS METHOD IS USED, GROUND RESISTANCE TESTING SHALL NOT BE REQUIRED.
5. WHERE MODULAR BUILDINGS ARE INSTALLED ON CONCRETE FOUNDATIONS, A UFER GROUND SHALL BE INSTALLED IN THE FOOTING PER [CEC 250.52 (A)(3)].
6. OTHER GROUNDING METHODS IDENTIFIED CEC 250 SHALL BE ACCEPTABLE MEANS TO ACHIEVE ADEQUATE GROUNDING OF METAL BUILDINGS IN COMPLIANCE WITH THE ABOVE.
7. ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER. (BOLTING ONLY IS NOT ACCEPTABLE BONDING). BONDING SHALL INCLUDE METAL RAMP.
8. ELECT. TRADE SHALL CHECK AREA FOR EXIST. CONDUITS, SEWER, GAS & WATER PIPING BEFORE DRIVING GROUND RODS.
9. TESTING FOR GROUNDING SHALL BE WITNESSED AND VERIFIED BY THE PROJECT INSPECTOR.

3 PORTABLE BUILDING GROUNDING DETAIL
NO SCALE

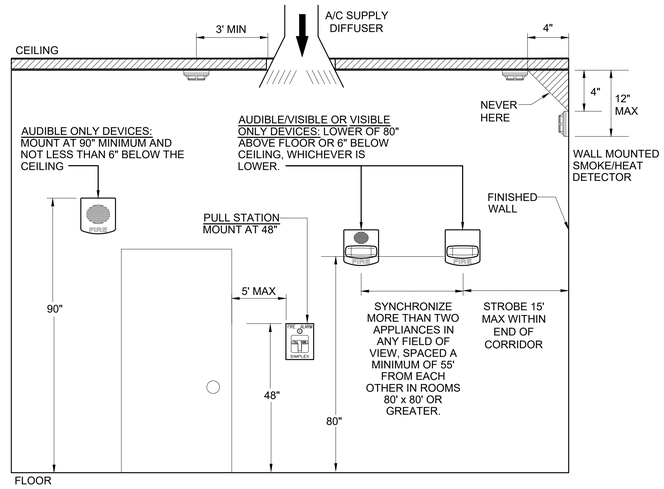


NOTE: THIS DETAIL APPLIES TO EQUIPMENT THAT IS LESS THAN 16" WIDE.

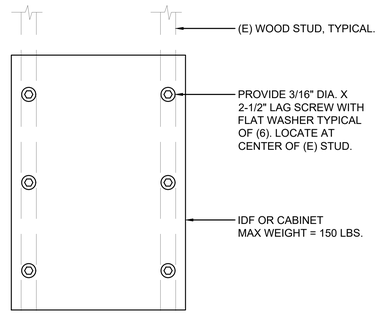
4 SURFACE CABINET OR IDF MOUNTING DETAIL
NO SCALE

FIRE ALARM SYSTEM SEQUENCE OF OPERATION

	CAUSE	EFFECT: ALARM AT FACP	ALARM: ALARM AT OFF-SITE REPORTING	ALARM: ACTIVATE AUDIBLE/VISUAL ALARMS	ALARM: LOCAL ALARM (TEMPORAL SOUNDER BASE)	TROUBLE: TROUBLE AT FACP	TROUBLE: TROUBLE AT OFF-SITE REPORTING	SUPERVISORY: CONDITION AT FACP	SUPERVISORY: SUPERVISORY CONDITION AT OFF-SITE REPORTING	REMARKS
	X = REQUIRED ACTION BLANK MEANS NOT APPLICABLE									
1	SMOKE DETECTOR	X	X	X						
2	HEAT DETECTOR	X	X	X						
3	CARBON MONOXIDE DETECTOR				X	X				
4	MANUAL PULL STATION	X	X	X						
5	DUCT DETECTOR	X	X	X						SHUTDOWN ASSOCIATED MECHANICAL UNIT (BY MECHANICAL)
6	POWER FAILURE					X	X			
7	TAMPER SWITCH AT POST INDICATOR VALVE							X	X	
8	TAMPER SWITCH AT FIRE SPRINKLER RISER							X	X	
9	FLOW SWITCH AT FIRE SPRINKLER RISER	X	X	X						
10	FIRE ALARM TROUBLE (OPEN, SHORTS OR GROUNDS ON INITIATION, NOTIFICATION OR SIGNALING LINE CIRCUITS)					X	X			



1 FIRE ALARM DEVICE ELEVATIONS
NO SCALE



2 SURFACE IDF OR CABINET MOUNTING DETAIL
NO SCALE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

aedis architects
www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT
SOLANO CCD SWING SPACE

SOLANO COMMUNITY COLLEGE DISTRICT

CONSULTANT
EDGE ELECTRICAL ADMINISTRATORS
Project Number K481
Contact CJJ
400 R Street, Ste 333
Sacramento, CA 95811
916.256.2460
Sacramento | Alameda | Irvine

PROFESSIONAL ENGINEER — JOSEPH JAMES JOHNSTON — No. E 017376 — ELECTRICAL — STATE OF CALIFORNIA
03/06/2024

STAMP

STATE
DSA FILE NUMBER 48- C1
APPL # 02-122153

REVISIONS

No.	Description	Date
△		

MILESTONES
12.13.2023
01.17.2024
02.09.2024
02.21.2024
03.06.2024

SHEET
ELECTRICAL DETAILS

DATE 03/06/24
JOB # 2023052
SHEET # E3.02

Manufacturer	Model Number	Description	CSFM Listing
EST	EST3	FIRE ALARM CONTROL PANEL	7165-1657:0186
EST	SIGA-270	MANUAL PULL STATION	7150-1657:0129
EST	SIGA-PD	SMOKE DETECTOR	7272-1657:0331
EST	SIGA-SB	DETECTOR BASE	7300-1657:0120
	AH24WP	HORN, EXTERIOR	7125-0785:0131
WHEELOCK	WBB-R	OUTDOOR BACKBOX	7300-0785:0177
	WFP	WP ADAPTER PLATE	7300-0785:0177
WHEELOCK	ELHSR	HORN/STROBE, WALL	7135-0785:0504
WHEELOCK	ELSTR	STROBE, WALL	7135-0785:0504

Control Panel Designation: FACP-SS

Battery Calculation Standby: 24 hr.
and Alarm: 15 min.

(E) / (N)	Model #	Description		Standby Current	Alarm Current	Qty.	Total Standby Current	Total Alarm Current
Control Panel Modules								
(N)	EST3	Fire Alarm Control Panel		0.625	1.800	1	0.625	1.800
			Control Panel Modules Totals				**0.625**	**1.800**
Notification Appliance Circuits								
			Notification Circuit	NSS1	0.000	0.501	1	0.000	0.501
			Notification Circuit	NSS2	0.000	0.000	1	0.000	0.000
		Spare	Notification Circuit	N3	0.000	0.000	1	0.000	0.000
		Spare	Notification Circuit	N4	0.000	0.000	1	0.000	0.000
			Notification Appliance Circuit Totals				**0.000**	**0.501**
			Overall Totals				0.625	2.301

Summary:

Standby Amps x 24 hrs. = Amp hrs.	15.000
Alarm Current x 0.25 hrs = Amp hrs.	0.575
Total Amp Hour Current	15.575
25% Safety Factor	3.894
TOTAL AMP HOUR BATTERY REQUIRED	**19.469**

AH BATTERY PROVIDED **25.0**

Appliance Circuit Voltage Drop: NSS1

This calculator provided voltage drop calculations in a Point-to-Point format.
Resistance Value: 18=8.08, 16=5.08, 14=3.19, 12=2.01, 10=1.26
18-10 Awg = Solid Conductors — Resistance for copper wire based on NEC Chapter 9, Table 8.
Nominal System Voltage: 24 V — Wire — Ohm's
Minimum Device Voltage: 16 V — Gauge — Per 1000
Value is in Amps. eg.: .100 = 100 mA
Distance is measured in feet.

Model Number	Device Description	Device Number	Device Current	Distance from previous device	Wire Guage	Ohm's Per 1000	Voltage: At Device	Voltage: Drop from source	Voltage: Percent Drop
ELHSRC (90dB,110cd)	Horn/Strobe, Wall, 110cd	NSS1 -1	0.102	95	12	2.01	23.81	0.191	0.80%
AH24WP (95dB)	Horn, Exterior	NSS1 -2	0.043	40	12	2.01	23.74	0.255	1.06%
ELHSRC (90dB,110cd)	Horn/Strobe, Wall, 110cd	NSS1 -3	0.102	140	12	2.01	23.54	0.456	1.90%
ELSTR (15cd)	Strobe, Wall, 15cd	NSS1 -4	0.022	100	12	2.01	23.44	0.558	2.32%
ELSTR (15cd)	Strobe, Wall, 15cd	NSS1 -5	0.022	20	12	2.01	23.42	0.577	2.40%
AH24WP (95dB)	Horn, Exterior	NSS1 -6	0.043	15	12	2.01	23.41	0.589	2.46%
ELSTR (15cd)	Strobe, Wall, 15cd	NSS1 -7	0.022	20	12	2.01	23.40	0.603	2.51%
ELHSRC (90dB,110cd)	Horn/Strobe, Wall, 110cd	NSS1 -8	0.102	165	12	2.01	23.30	0.699	2.91%
AH24WP (95dB)	Horn, Exterior	NSS1 -9	0.043	15	12	2.01	23.30	0.701	2.92%
		Total	**0.501**	**610**			**23.30**	**0.701**	**2.92%**

Summary:

Available Amp on Circuit	6 A	End of Line Voltage	23.30 V
Remaining Amp on Circuit	5.499 A	Total Voltage Drop	0.701 V
Remaining Amp % on Circuit	91.65%	Voltage Drop %	3.44%

Appliance Circuit Voltage Drop: NSS2

This calculator provided voltage drop calculations in a Point-to-Point format.
Resistance Value: 18=8.08, 16=5.08, 14=3.19, 12=2.01, 10=1.26
18-10 Awg = Solid Conductors — Resistance for copper wire based on NEC Chapter 9, Table 8.
Nominal System Voltage: 24 V — Wire — Ohm's
Minimum Device Voltage: 16 V — Gauge — Per 1000
Value is in Amps. eg.: .100 = 100 mA
Distance is measured in feet.

Model Number	Device Description	Device Number	Device Current	Distance from previous device	Wire Guage	Ohm's Per 1000	Voltage: At Device	Voltage: Drop from source	Voltage: Percent Drop
ELHSRC (90dB,110cd)	Horn/Strobe, Wall, 110cd	NSS2 -1	0.102	120	12	2.01	23.74	0.259	1.08%
AH24WP (95dB)	Horn, Exterior	NSS2 -2	0.043	40	12	2.01	23.67	0.329	1.37%
ELHSRC (90dB,110cd)	Horn/Strobe, Wall, 110cd	NSS2 -3	0.102	140	12	2.01	23.45	0.550	2.29%
AH24WP (95dB)	Horn, Exterior	NSS2 -4	0.043	20	12	2.01	23.43	0.573	2.39%
ELHSRC (90dB,110cd)	Horn/Strobe, Wall, 110cd	NSS2 -5	0.102	190	12	2.01	23.24	0.762	3.17%
AH24WP (95dB)	Horn, Exterior	NSS2 -6	0.043	45	12	2.01	23.21	0.788	3.28%
ELHSRC (90dB,110cd)	Horn/Strobe, Wall, 110cd	NSS2 -7	0.102	185	12	2.01	23.14	0.864	3.60%
		Total	**0.537**	**740**			**23.14**	**0.864**	**3.60%**

Summary:

Available Amp on Circuit	6 A	End of Line Voltage	23.14 V
Remaining Amp on Circuit	5.463 A	Total Voltage Drop	0.864 V
Remaining Amp % on Circuit	91.05%	Voltage Drop %	4.23%

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122153 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 3/12/2024

aedis architects
www.aedisarchitects.com
387 S. 1st Street, Suite 300
San Jose, CA 95113
tel: (408)-300-5160
fax: (408)-300-5121

PROJECT

SOLANO CCD
SWING SPACE

SOLANO COMMUNITY
COLLEGE DISTRICT

CONSULTANT

EDGE ELECTRICAL ADMINISTRATORS
Project Number K481
Contact CJJ
400 R Street, Ste 333
Sacramento, CA 95811
916.256.2460
Sacramento | Alameda | Irvine

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER JAMES JOHNS DUNN
No. E 017376
ELECTRICAL
STATE OF CALIFORNIA
03/06/2024

STAMP

STATE

DSA FILE NUMBER 48- C1
APPL # 02-122153

REVISIONS

No.	Description	Date
△		

MILESTONES

12.13.2023
01.17.2024
02.09.2024
02.21.2024
03.06.2024

SHEET

FIRE ALARM CALCULATIONS

DATE 03/06/24

JOB # 2023052

SHEET #

E4.01