LODI UNIFIED SCHOOL DISTRICT

MILLSWOOD MIDDLE SCHOOL
PORTABLES RELOCATION

DSA APP NO. 02-121945

FILE NO. 39-50

PROJECT TRACKING NO. 68585-261

AGENCY APPROVAL DSA# 02-121945
39-50

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

196 ARCHITECTS
1715 R STREET, SUITE 200
SACRMENTO, CA 95811
TEL (916) 786-8178

SYMBOLS

DRAFTING ITEMS

- DATUM - CONTROL POINT
- DIMENSION LINE AND TICK
- MATCHLINE - SEE: 1 / A101
- BREAK LINE
- 01.23.A KEYNOTE
- Name Elevation PROJECT LEVEL MARKER
- 0 COLUMN GRID MARKER
- REVISION CLOUD
- 1 CMNT # REVISION TAG
- PROJECT NORTH — PROJECT NORTH ARROW

VIEW REFERENCES

- 1 A101 SIM — VIEW REFERENCE / SHEET REFERENCE
- 1 A101 SIM — DETAIL VIEW
- 1 A101 TYP. — SECTION VIEW
- 1 A101 SIM — ENLARGED VIEW
- 1A A-101 1A 1A — INTERIOR ELEVATION; VIEW REFERENCE / SHEET REFERENCE
- 99 A1-100 — EXTERIOR ELEVATION

APPLICABLE CODES AND STANDARDS

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2023

ALL PARTS OF THE TITLE 24 CODE SHOWN BELOW HAVE AN EFFECTIVE DATE OF **JANUARY 1, 2023**, EXCEPT:

- CALIFORNIA ADMINISTRATIVE CODE - EFFECTIVE **MARCH 5, 2022**

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

CALIFORNIA BUILDING CODE (CBC) - CCR, TITLE 24, PART 2
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)

CALIFORNIA ELECTRICAL CODE (CEC) - CCR, TITLE 24, PART 3
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)

CALIFORNIA MECHANICAL CODE (CMC) - CCR, TITLE 24, PART 4
(2021 IAPMO UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS

CALIFORNIA PLUMBING CODE (CPC) - CCR, TITLE 24, PART 5
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)

CALIFORNIA ENERGY CODE (CEC) - CCR, TITLE 24, PART 6

CALIFORNIA FIRE CODE (CFC) - CCR, TITLE 24, PART 9
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)

CALIFORNIA EXISTING BUILDING CODE (CEBC) - CCR, TITLE 24, PART 10

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

CALIFORNIA REFERENCED STANDARDS CODE - CCR, TITLE 24, PART 12
(PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS)

ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS *PER 2022 CBC PART 2 CH 35) - CAL/OSHA ELEVATOR UNIT ENFORCES CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION*

PARTIAL LIST OF APPLICABLE STANDARDS AS OF JANUARY 1, 2023*

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

NFPA 10-21 - STANDARD FOR PORTABLE FIRE EXTINGUISHERS

NFPA 12-15 - STANDARD ON CARBON DIOXIDE EXTINGUISHING SYSTEMS

NFPA 12A-18 - STANDARD ON HALON 1301 FIRE EXTINGUISHING SYSTEMS

NFPA 13-22 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (AS AMENDED)

NFPA 14-19 - STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS

NFPA 17-21 - STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS

NFPA 17A-21 - STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS

NFPA 20-19 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION

NFPA 24-19 - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES (AS AMENDED)

NFPA 72-22 - NATIONAL FIRE ALARM AND SIGNALING CODE (AS AMENDED)

NFPA 80-19 - STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES

ICC 300-17 - STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS

UL 300-2005(R2010) - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT

UL 464-03 - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES

UL 521-99 - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS

UL 1971-2002(R2010) - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED

GENERAL PROJECT NOTES - K12

1. ALL WORK SHALL CONFORM TO 2022 TITLE 24 CALIFORNIA CODE OF REGULATIONS (CCR).
2. THE PROJECT MANUAL AND SPECIFICATIONS IN CONJUNCTION WITH THESE DRAWINGS AND REFERENCES SHALL FORM A PART OF THE CONTRACT AND SHALL BE REFERRED TO AS THE "DOCUMENTS." THE DOCUMENTS DEFINE THE WORK TO BE PERFORMED AS AGREED TO IN THE CONTRACT
3. CHANGES TO 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, T24 CCR.
4. A DSA CERTIFIED **INSPECTOR CLASS 3** SHALL BE EMPLOYED BY THE DISTRICT AND SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTION ARE DEFINED IN SECTION 4-342, PART 1, T24, CCR.
5. APPARENT DISCREPANCIES ON DRAWINGS AND/OR SPECIFICATIONS SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
6. ANY DIFFERENCE BETWEEN THE EXISTING CONSTRUCTION AS OBSERVED IN THE FIELD AND AS SHOWN ON THE DRAWING SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
7. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND COORDINATING DIMENSIONS.
8. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ENSURE THAT ALL APPLICABLE SAFETY LAWS ARE STRICTLY ENFORCED AND TO MAINTAIN A SAFE CONSTRUCTION PROJECT.
9. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PROVIDE SUPERVISION OF THE CONSTRUCTION WORK TO ENSURE THAT IT IS BUILT IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. THE ARCHITECT WILL PROVIDE ONLY PERIODIC OBSERVATION OF THE WORK. SEE NOTE 4 FOR DSA INSPECTION REQUIREMENTS.
10. ANY DAMAGE DONE TO THE EXISTING CONSTRUCTION DURING THE COURSE OF THIS WORK SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE WITH NO ADDITIONAL COST TO THE OWNER.
11. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD & ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
12. THE SEISMIC ANCHORAGE OF MECHANICAL AND ELECTRICAL EQUIPMENT SHALL CONFORM TO CCR TITLE 24, 2022 CBC SECTION 1616A.1.18 AND ASCE-7-16 SECTION 13.6 ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT SHALL BE SHOWN ON PLANS.
13. CUTTING, BORING, SAW CUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE ARCHITECT AND THE STRUCTURAL ENGINEER WITH THE APPROVAL OF DSA REPRESENTATIVE. ALL WELDING SHALL BE SPECIALLY INSPECTED BY AN AWS-CWI QUALIFIED INSPECTOR APPROVED BY DSA. ALL BRACING OF DUCTS AND PIPING SHALL BE INSTALLED AS APPROVED BY DSA. WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, MECHANICAL ENGINEER AND FIELD ENGINEER. A COPY OF THE DRAWINGS APPROVED BY DSA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.
14. 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, CALIFORNIA CODE OF REGULATIONS. 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, CALIFORNIA CODE OF REGULATIONS, A CONSTRUCTION CHANGE DOCUMENT, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
15. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE SCHOOL DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
16. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COMPLY WITH CFC CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.
17. DO NOT SCALE DRAWINGS, DIMENSIONS SHOWN SHALL TAKE PRECEDENCE OVER DRAWING SCALE. WHENEVER DSA FINDS ANY CONSTRUCTION WORK IS BEING PERFORMED IN A MANNER CONTRARY TO THE PROVISIONS OF THE CALIFORNIA BUILDING CODE AND THAT WOULD COMPROMISE THE STRUCTURAL INTEGRITY OF THE BUILDING, THE DEPARTMENT OF GENERAL SERVICES, STATE OF CALIFORNIA, IS AUTHORIZED TO ISSUE A STOP WORK ORDER PER SECTION 4-334.1 CALIFORNIA ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR).
18. TITLE 24 PARTS 1-5 AND 9 MUST BE KEPT ON SITE DURING CONSTRUCTION
19. ALL STRUCTURAL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING MATERIALS INSTALLATION TO COMPLY WITH APPLICABLE CODES, STANDARDS, AND MANUFACTURER'S RECOMMENDATIONS.
20. PROJECT INSPECTION (PI) SHALL WITNESS AND VERIFY GROUNDING.
21. **DETERIORATION OR EXISTING NON-COMPLIANT CONSTRUCTION:** IF ANY CONDITION IS DISCOVERED WHICH, IF LEFT UNCORRECTED, WOULD MAKE THE BUILDING NON-COMPLIANT WITH THE REQUIREMENTS OF THE EDITION OF CBC IN FORCE AT THE TIME OF ORIGINAL CONSTRUCTION, THE CONDITION MUST BE CORRECTED IN ACCORDANCE WITH CURRENT CODE REQUIREMENTS. A CONSTRUCTION CHANGE DOCUMENT (CCD-TYPE A), 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.
22. NEW BUILDINGS SHALL BE PROVIDED WITH EMERGENCY RESPONDER RADIO COVERAGE IN ACCORDANCE WITH CALIFORNIA FIRE CODE SECTION 510. THE PROJECT ARCHITECT (AOR) SHALL CONTACT THE LOCAL FIRE DEPARTMENT AND/OR EMERGENCY COMMUNICATIONS AUTHORITY TO OBTAIN DESIGN, EQUIPMENT SPECIFICATIONS, TESTING AND ACCEPTANCE CRITERIA. PLANS AND REQUESTED DOCUMENTATION SHALL BE SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL. UPON COMPLETION, COPIES OF THE APPROVED PLANS, EQUIPMENT DATE SHEETS, TESTING AND ACCEPTANCE DOCUMENTATION SHALL BE PROVIDED TO THE SCHOOL DISTRICT.

PROJECT DESCRIPTION

- RELOCATION OF (2) 24'X40' PORTABLE BUILDINGS ON WOOD FOUNDATIONS:
  AMS PC RELOCATABLE BUILDING, DSA #68145, SERIAL #97-R286-017A, 97-R286-017B, AND
  MODTECH PC RELOCATABLE BUILDING, DSA #02-106169, SERIAL #51268-51267

- REMOVAL, PROTECTION AND TRANSPORTATION OF PORTABLE BUILDINGS FROM M&O YARD LOCATED AT 880 N. GUILD AVE., LODI, CA 95240 TO THE MILLSWOOD CAMPUS

- ASSOCIATED SITE WORK CORRESPONDING TO PORTABLE RELOCATION INCLUDING BUT NOT LIMITED TO NEW/PATCH CONCRETE, NEW/PATCH AC PAVING, ELECTRICAL AND FIRE ALARM CONNECTIONS TO EXISTING SITE.

DEFERRED APPROVALS

NONE

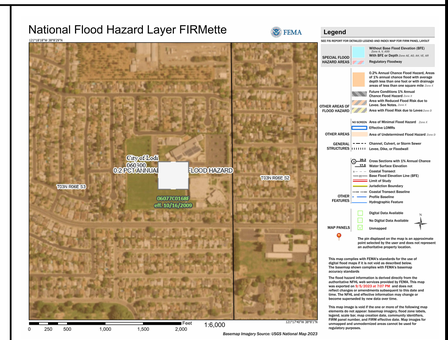
ABBREVIATIONS

@	AT		
℄	CENTER LINE	ID	INSIDE DIAMETER
¢	PENNY	INSUL	INSULATION OR INSULATED
0#	POUND	INV	INVERT
⊥	PERPENDICULAR	LAV	LAVATORY
∠	ANGLE	MATL	MATERIAL
AB	ANCHOR BOLT	MAX	MAXIMUM
AC	ASPHALTIC CONCRETE	MB	MACHINE BOLT
ACT	ACOUSTICAL CEILING TILE	MECH	MECHANICAL
AFF	ABOVE FINISH FLOOR	MFR	MANUFACTURE OR MANUFACTURER
ALT	ALTERNATE	MH	MAN HOLE
ALUM	ALUMINUM	MIN	MINIMUM
ANOD APPROX	ANODIZED APPROXIMATE	MISC	MISCELLANEOUS
ARCH	ARCHITECT OR ARCHITECTURAL	MO	MASONRY OPENING
BD	BOARD	N	NORTH
BLDG	BUILDING	(N)	NEW
BLK(G)	BLOCK(ING)	NIC	NOT IN CONTRACT
BOB	BOTTOM OF BEAM	NO OR #	NUMBER
BM	BEAM	NTS	NOT TO SCALE
CB	CATCH BASIN	OC	ON CENTER
CI	CAST IRON	OD	OUTSIDE DIAMETER
CJ	CONSTRUCTION JOINT	OPNG	OPENING
CLG	CEILING	PL	PLATE OR PROPERTY LINE
CLR	CLEAR	PLAM	PLASTIC LAMINATE
CMU	CONCRETE MASONRY UNIT	PLAS	PLASTER (NUMBER - SEE SPECS)
CO	CLEAN OUT	PLYWD	PLYWOOD
COL	COLUMN	PNT	PAINT (NUMBER - SEE SPECS)
CONC	CONCRETE	PTDF	PRESSURE TREATED DOUGLAS FUR
CONT	CONTINUOUS	QT	QUARRY TILE
CSK	COUNTERSINK	RD	ROOF DRAIN
CW	COLD WATER	REF	REFRIGERATOR
⊏	CHANNEL	REINF	REINFORCE OR REINFORCING
DBL	DOUBLE	RH	ROUND HEAD
DEPT	DEPARTMENT	RM	ROOM
DET	DETAIL	RO	ROUGH OPENING
DF	DRINKING FOUNTAIN	RWD	REDWOOD
DIA	DIAMETER	S	SOUTH
DIAG	DIAGONAL	SCH	SCHEDULE
DN	DOWN	SD	STORM DRAIN
DS	DOWNSPOUT	SHR	SHOWER
DWG	DRAWING	SHT	SHEET
E	EAST	SHTHG	SHEATHING
(E)	EXISTING	SIM	SIMILAR
EB	EXPANSION BOLT	SMACNA SPEC	THE ARCH SHEET METAL MANUAL SPEC
EJ	EXPANSION JOINT	SQ	SQUARE
ELEV	ELEVATION	SSTL	STAINLESS STEEL
ELEC	ELECTRIC(AL)	STD	STANDARD
EP	EDGE OF PAVING	STL	STEEL
EQ	EQUAL	SUSP	SUSPENDED
EQUIP	EQUIPMENT	SYM	SYMMETRICAL
FD	FLOOR DRAIN	TOB	TOP OF BEAM
FE(C)	FIRE EXTINGUISHER (& CABINET)	TOC	TOP OF CURB OR TOP OF CONCRETE
FF	FINISHED FLOOR	TCB	TOP OF CATCH BASIN
FG	FINISHED GRADE	TEL	TELEPHONE
FH	FLAT HEAD OR FIRE HYDRANT	TEMP	TEMPERATURE OR TEMPERED
FIN	FINISH	T&G	TONGUE & GROOVE
FL	FLOW LINE	TP	TOP OF PAVING
FLG	FLASHING	TS	STRUCTURAL TUBING
FLR	FLOOR	TV	TELEVISION
FOC	FACE OF CONCRETE	TOW	TOP OF WALL
FOF	FACE OF FINISH	TYP	TYPICAL (ITEMS TYPICAL UNLESS SHOWN OR NOTED OTHERWISE)
FOM	FACE OF MASONRY		UNLESS OTHERWISE NOTED
FOS	FACE OF STUD	UON	VINYL COMPOSITION TILE
FRP	FIBERGLASS REINFORCED PANEL	VCT	VERTICAL
FT	FOOT OR FEET	VERT	VERTICAL GRAIN DOUGLAS FIR
FTG	FOOTING	VGDF	VENT THRU ROOF
GA	GAUGE	VTR	WEST
GALV	GALVANIZED	W	WATER CLOSET
GB	GRAB BAR, GRADE BREAK	WC	WHEELCHAIR ACCESSIBLE
GL	GLASS	W.C.	WOOD
GLB	GLUE LAMINATED BEAM	WD	WIDE FLANGE
GYP	GYPSUM	WF	WATER HEATER
GWB	GYPSUM WALL BOARD	WH	WATERPROOF
HB	HOSE BIBB	WP	WOOD SCREW
HDR	HEADER	WS	WAINSCOT
HGT	HEIGHT	WSCT	WELDED WIRE FABRIC
HORIZ	HORIZONTAL	WWF	WITH
HTR	HEATER	W/	WITHOUT
HVAC	HEATING/VENTILATING/AIR CONDITIONING	W/O	

SHEET INDEX

SHEET #	SHEET NAME	REV #	DATE
1. OVERALL GENERAL INFORMATION			
G-001	TITLE SHEET		
G-002	FIRE AUTHORITY SITE PLAN		
GENERAL SHEETS TOTAL: 2			
2. CIVIL ENGINEERING			
C-0.0	GENERAL NOTES AND ABREVIATIONS		
C-0.1	TOPOGRAPHIC SURVEY		
C-1.1	DEMOLITION PLAN		
C-2.1	GRADING, PAVING, AND DRAINAGE PLAN		
CIVIL SHEETS TOTAL: 4			
3. ARCHITECTURAL DRAWINGS			
A-101	OVERALL SITE PLAN		
A-102	ENLARGED SITE PLAN AND CODE ANALYSIS		
A-301	EXTERIOR ELEVATIONS		
ARCHITECTURAL SHEETS TOTAL: 3			
4. ELECTRICAL ENGINEERING			
E0.1	SYMBOLS & SHEET INDEX		
E0.2	POWER ONE-LINE DIAGRAM, RISERS & SCHEDULES		
E1.1	OVERALL ELECTRICAL SITE PLAN		
E2.1	POWER AND SIGNAL PLAN		
E3.1	FIRE ALARM DETAILS, SCHEDULES & NOTES		
E3.2	FIRE ALARM RISER DIAGRAM & CALCULATIONS		
E4.1	ELECTRICAL DETAILS		
ELECTRICAL SHEETS TOTAL: 7			
5. PC RELOCATABLE BUILDING AMS #68145 DRAWINGS - FOR REFERENCE ONLY			
TS-1.1	TITLE AND BUILDING DATA NOTES		
N-1	GENERAL NOTES		
1	FLOOR PLAN AND NOTES		
2	EXTERIOR ELEVATIONS		
3	CEILING GRID, DETAILS, AND NOTES		
S1	FOUNDATION PLAN WOOD, DETAILS & NOTES 50#		
S2	FLOOR FRAMING PLAN & BUILDING SECTIONS		
S2B	BUILDING SECTIONS AND WALL DETAILS		
S3	ROOF FRAMING PLAN & DETAILS		
S4	FRAMING ELEVATIONS & DETAILS		
SSR.1	RAMP PLAN, ELEVATION & DETAILS		
M1	MECHANICAL PLAN, DETAILS & NOTES		
E1	ELECTRICAL PLAN, DETAILS & NOTES		
PC RELOCATABLE BUILDING AMS #68145 DRAWINGS SHEETS TOTAL: 13			
6. PC RELOCATABLE BUILDING MODTECH #02-106169 DRAWINGS - FOR REFERENCE ONLY			
A.0	TITLE SHEET		
A1.0	FLOOR PLAN 24'X40'		
A2.0	ROOF PLAN (DUAL PITCH) 24'X40'		
A3.01	EXTERIOR ELEVATIONS (DUAL PITCH) 24'X40' W/O FASCIA		
A4.0	INTERIOR ELEVATIONS - (NOTE. SHEET TITLE DIFFERES FROM PC TITLE SHEET)		
A5.0	SCHEDULE SHEET - (NOTE. SHEET TITLE DIFFERES FROM PC TITLE SHEET)		
A6.0	ARCHITECTURAL DETAILS (WOOD STUDS)		
A6.1	ARCHITECTURAL DETAILS (WOOD STUDS)		
A6.0M	ARCHITECTURAL DETAILS (METAL STUDS)		
A6.1M	ARCHITECTURAL DETAILS (METAL STUDS)		
A7.01	REFLECTED CEILING PLAN (24'X40') (10 LIGHTS)		
A7.1	REFLECTED CEILING DETAILS		
A8.0	SPECIFICATIONS		
A8.1	SPECIFICATIONS		
F1.0	FOUNDATION PLAN (24'X40') 50 PSF LL (WOOD)		
F2.01	FOUNDATION DETAILS (WOOD)		
S1.0	FLOOR FRAMING PLAN 50 PSF LL		
S1.2	STRUCTURAL DETAILS - (NOTE. SHEET TITLE DIFFERES FROM PC TITLE SHEET)		
S2.01	FLOOR FRAMING PLAN		
S2.1	STRUCTURAL DETAILS - (NOTE. SHEET TITLE DIFFERES FROM PC TITLE SHEET)		
S3.0	STRUCTURAL ELEVATIONS & DETAILS (DUAL PITCH)		
S4.0	WALL FRAMING (WOOD)		
S4.0M	WALL FRAMING (METAL)		
S5.0	WALL FRAMING DETAILS (WOOD)		
S5.1	WALL FRAMING DETAILS (WOOD)		
S5.0M	WALL FRAMING DETAILS (METAL)		
S5.1M	WALL FRAMING DETAILS (METAL)		
M1.01	MECHANICAL (HVAC) PLAN 24'X40' - 5 TON		
E1.01	ELECTRICAL PLAN 24'X40'		
R1.01	RAMP/LANDING PLAN W/ 12' RAMP		
R1.02	RAMP/STAIRS DETAILS		
PC RELOCATABLE BUILDING MODTECH #02-106169 DRAWINGS SHEETS TOTAL: 31			
7. PC 04-122029 ACCESSIBLE RAMP LANDING STAIR PC			
R-1	COVER SHEET		
R-2	DSA 103 TEST & SPECIAL INSPECTIONS SAMPLE		
R-3	CONSTRUCTION SPECIFICATIONS & NOTES		
R-4	STANDARD RAMP & LANDING (ATATCHED HANDRAIL TO BUILDING)		
R-9	RAMP & LANDING DETAILS		
PC 04-122029 ACCESSIBLE RAMP LANDING STAIR PC SHEETS TOTAL: 5			
OVERALL SHEET TOTAL: 65			

National Flood Hazard Layer FIRMette



VICINITY MAP

PROJECT LOCATION

MILLSWOOD MIDDLE SCHOOL

STATEMENT OF GENERAL CONFORMANCE

THE PC DRAWINGS SHEETS LISTED BELOW ON THE SHEET INDEX OF THIS COVER 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 IT APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS, AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
2) COORDINATION WITH MY PLANS AND SPECIFICATIONS, AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF EDUCATION CODE, AND SECTIONS 4-336, 4-341 AND 4-334 OF TITLE 24, PART 1 (*TITLE 24, PART 1, SECTION 4-317 (B)*).

I FIND THAT: ■ ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET

■ THIS DRAWING OR PAGE

■ IS/ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN, AND

■ HAS/HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

SIGNATURE — DATE 12/05/23

ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE

MARIANA ALVAREZ-PARGA
PRINT NAME

C-36107 — 01-31-25
LICENSE NUMBER — EXPIRATION DATE

CONSULTANTS

CIVIL ENGINEER
Warren Consulting Engineers, Inc
1117 Windfield Way, Suite 110
El Dorado Hills, CA 95762
TEL (916) 985-1870

ELECTRICAL ENGINEER
The Engineering Enterprise
1125 High Street
Auburn, CA 95603
TEL (530) 886-8556

PROFESSIONAL STAMP

LICENSED ARCHITECT — MARIANA ALVAREZ PARGA — C-36107 — REN. 01-31-25 — STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION
1		
-		
-		
-		
-		
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-		
-		

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL
PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE

TITLE SHEET

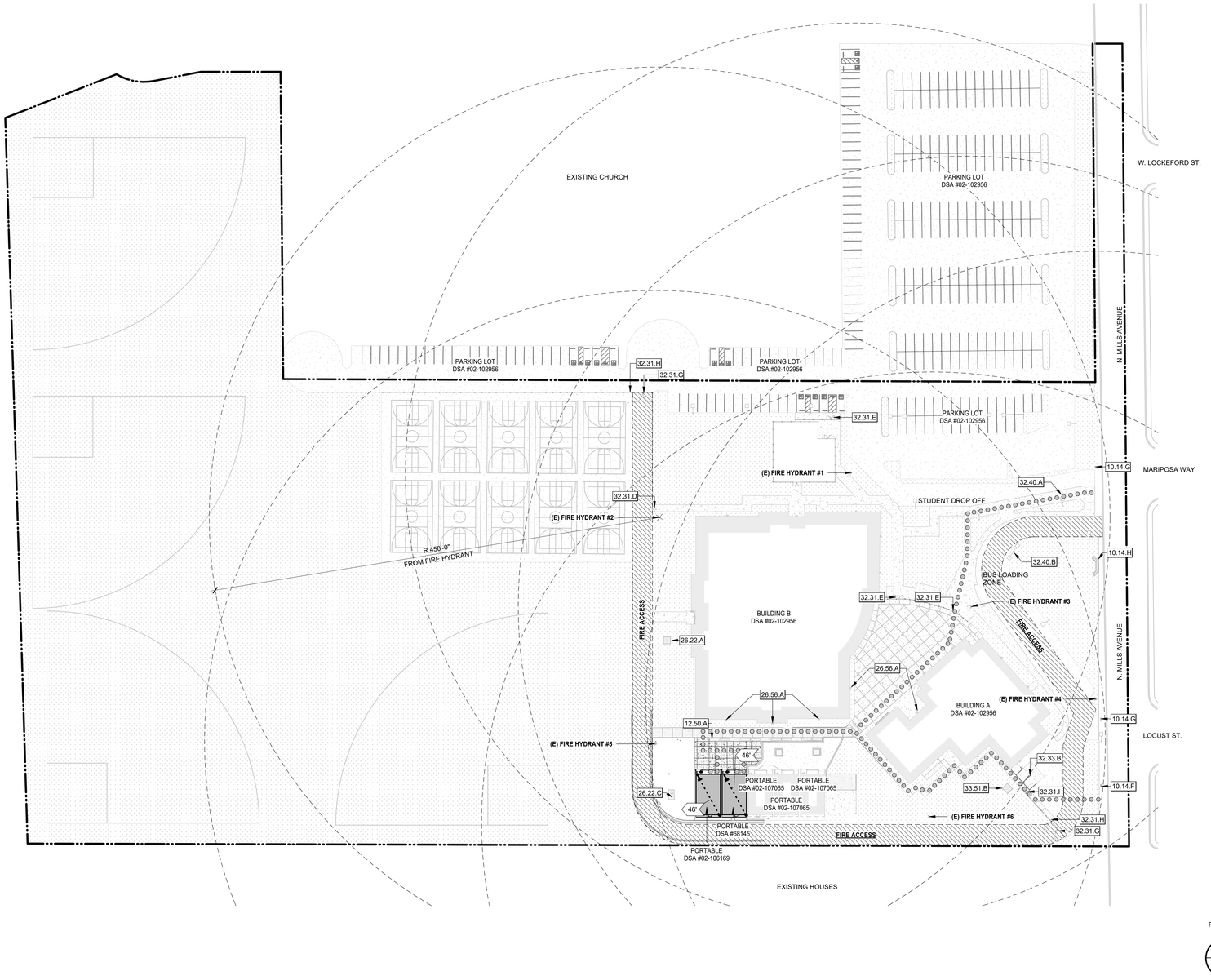
DRAWN BY: CV, BI JOB NUMBER: 23219

SHEET NO.
G-001

DATE: DECEMBER 12, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 12/12/2023 11:05:42 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK8V.rvt



FIRE AUTHORITY SITE PLAN

1" = 50'-0" | 1

KEYNOTES

NOTE: NOT ALL KEYNOTES ARE USED ON EVERYSHEET

10.14.F	(E) SCHOOL SPEED LIMIT SIGN
10.14.G	(E) ACCESS SIGN
10.14.H	(E) SCHOOL SIGN
12.50.A	(E) SITE BENCH
26.22.A	(E) ELECTRICAL TRANSFORMER
26.22.C	(E) DISTRIBUTOR PANEL
26.56.A	(E) EXTERIOR LIGHT FIXTURE
32.31.D	(E) SINGLE 3'-0" WIDE CHAIN LINK GATE WITH PANIC HARDWARE
32.31.E	(E) DOUBLE 3'-6" WIDE CHAIN LINK GATE WITH PANIC HARDWARE
32.31.G	(E) 20' WIDE DOUBLE SWING GATES
32.31.H	(E) KNOX BOX
32.31.I	(E) 4' WIDE MAN GATE WITH PANIC HARDWARE
32.33.B	(E) TRASH ENCLOSURE
32.40.A	(E) SINGLE FIXTURE LIGHT STANDARD
32.40.B	(E) DOUBLE FIXTURE LIGHT STANDARD
33.51.B	(E) GAS METER

FIRE ACCESS LEGEND

- ASSUMED PROPERTY LINE
- PROJECT BUILDING
- (E) BUILDING
- X——X——X——X FENCE LINE
- EGRESS PATH TO PUBLIC RIGHT OF WAY AND/OR SAFE DISPERSAL AREA
- (E) FIRE HYDRANT
- FDC (E) FIRE DEPARTMENT CONNECTION
- FIRE ACCESS ROUTE-ALL WEATHER SURFACE (OR BETTER) MAINTAINED TO SUPPORT FIRE APPARATUS WEIGHING 60,000 LBS, HAVING A 15% MAXIMUM GRADE 20'-0" MIN WIDTH PER 2019 CFC 505.2.1
- (E) EXTERIOR LIGHT FIXTURE
- (E) SINGLE FIXTURE LIGHT STANDARD
- (E) DOUBLE FIXTURE LIGHT STANDARD
- FIRE EXTINGUISHER
- FIRE SPRINKLER RISER
- BUILDING ENTRANCE
- 0' EGRESS DISTANCE
- OVERHANG

DATE PLOTTED: 12/12/2023 11:05:44 AM FILE LOCATION: C:\Users\bimhof\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhofCZK8V.rvt

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:	Lodi Unified School District
Project Name/School:	Millswood Middle School Portable Relocation
Project Address:	233 N. Mills Ave., Lodi, CA 95242

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 ☐

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

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

School District Acceptance of Acceptable Design Alternates

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

Accepted by: _____ Title: _____

Signature: _____ Date: _____

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

LFA Reviewer's Signature: _____ Date: _____

DSA 810

LODI FIRE DEPARTMENT

210 W. Elm Street, Lodi, CA 95240
209-333-6739
Fire@Lodi.gov

October 13, 2023

Fire Hydrant Readings for Millswood Middle School, 233 N. Mills Ave., Lodi, CA 95240.

Eastern Hydrant
60 # static
52# Residual
42# flow with approximately 1100 GPM

Western Hydrant
60# static
54# residual
45# flow with approximately 1130 GPM

*NOTE: # = PSI

Brad Doell,
Battalion Chief/Fire Marshal
City of Lodi Fire Department
210 W. Elm St. Lodi, CA 95240
209.333.6739
bdoell@lodi.gov

G-002_FIRE FLOW TEST

AGENCY APPROVAL DSA# 02-121945
29-50

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

196 ARCHITECTS
1715 R STREET, SUITE 200
SACRMENTO, CA 95811
TEL (916) 786-8178

CONSULTANTS

CIVIL ENGINEER
Warren Consulting Engineers, Inc
1117 Windfield Way, Suite 110
El Dorado Hills, CA 95762
TEL (916) 985-1870

ELECTRICAL ENGINEER
The Engineering Enterprise
1125 High Street
Auburn, CA 95603
TEL (530) 886-8556

PROFESSIONAL STAMP

LICENSED ARCHITECT
MARIANA ALVAREZ BERGA
C-36107
REN. 01 - 31 - 25
STATE OF CALIFORNIA

REVISIONS

#	NO.	DATE	DESCRIPTION
	-		
	-		

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
FIRE AUTHORITY SITE PLAN

DRAWN BY: CV, BI JOB NUMBER: 23219

SHEET NO.
G-002

DATE: DECEMBER 12, 2023

CONSTRUCTION DOCUMENTS

ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED ON THESE PLANS.

AB	AGGREGATE BASE
AC	ASPHALTIC CONCRETE
AD	AREA DRAIN
APN	ASSESSOR'S PARCEL NUMBER
ARV	AIR RELEASE VALVE
ASB	AGGREGATE SUB-BASE
BO	BLOW-OFF VALVE
BV	BUTTERFLY VALVE
BW	BACK OF WALK
C/L	CENTERLINE
CB	ATCH BASIN
CL	CLASS
CMP	CORRUGATED METAL PIPE
CATV	CABLE TELEVISION
CO	CLEANOUT
COMM	COMMUNICATION
CONC.	CONCRETE
CONST.	CONSTRUCT
CR	CURB RETURN
CS	CONCRETE SURFACE
DC	DOUBLE CHECK VALVE
DDC	DOUBLE DETECTOR CHECK VALVE
DG	DECOMPOSED GRANITE
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DWG	DRAWING
DS	DOWNSPOUT
E	ELECTRIC
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
EX	EXISTING
FS	FIRE SERVICE LINE
FDC	FIRE DEPARTMENT CONNECTION
FL	FLOWLINE
FM	SANITARY SEWER FORCE MAIN
FF	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
G	GAS
GR	GRATE ELEVATION
GRD	GRADE ELEVATION
GV	GATE VALVE
HB	HOSE BIBB
HBD	HEADER BOARD
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HP	HIGH POINT
INV	PIPE INVERT ELEVATION
JP	JOINT UTILITY POLE
LF	LINEAL FEET
LIP	LIP OF GUTTER
LT	LEFT
MS	MOWSTRIP
NTS	NOT TO SCALE
OH	OVERHEAD
PCC	PORTLAND CEMENT CONCRETE
PD	PLANTER DRAIN
PIV	POST INDICATOR VALVE
P/L	PROPERTY LINE
PP	POWER POLE
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
R	RADIUS
RIM	MANHOLE RIM ELEVATION (SOLID COVER)
RP	REDUCED PRESSURE BACKFLOW PREVENTER
RW	RIGHT OF WAY
SCH	SCHEDULE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SG	SUBGRADE ELEVATION
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
STD	STANDARD
S/W	SIDEWALK
T	TELEPHONE
TC	TOP OF CURB
TD	TRENCH DRAIN
TDCB	TRENCH DRAIN CATCH BASIN
TP	TELEPHONE POLE
TRW	TOP OF RETAINING WALL
TSW	TOP OF SEAT WALL
TW	TOP OF WALK ELEVATION
U	UTILITY
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
VCP	VITRIFIED CLAY PIPE
W	WATER
W/	WITH
W/O	WITHOUT
WV	WATER VALVE

LEGEND

NOTE: NOT ALL SYMBOLS MAY BE USED ON THESE PLANS.

PROPOSED GRADING & DRAINAGE SYMBOLS:

8" SD	STORM DRAIN LINE (SIZE AND FLOW SHOWN)
	STORM DRAIN MANHOLE (SDMH)
	CATCH BASIN (CB)
	DROP INLET (DI)
	AREA DRAIN (AD)
	PLANTER DRAIN (PD) OR FLOOR DRAIN (FD)
CO	STORM DRAIN CLEANOUT
99.99	ELEVATION
FF=100.00	FINISHED FLOOR ELEVATION
PAD=99.33	BUILDING PAD ELEVATION
	CONCRETE SIDEWALK
	GRADED DIRECTION FOR DRAINAGE FLOW
	SWALE
	SLOPE
	TREE TO BE REMOVED
	RETAINING WALL

PROPOSED SANITARY SEWER SYMBOLS:

8" SS	SANITARY SEWER LINE (SIZE AND FLOW SHOWN)
	SANITARY SEWER MANHOLE (SSMH)
CO	SEWER CLEANOUT FLUSHER BRANCH

PROPOSED WATER SYMBOLS:

8" W	WATER LINE & SIZE
8" FS	FIRE LINE & SIZE
8" DW	DOMESTIC WATER LINE & SIZE
8" RW	RECLAIMED WATER LINE & SIZE
8" IRR	IRRIGATION SERVICE LINE & SIZE
8" NP	NON POTABLE WATER LINE & SIZE
8" SP	FIRE SPRINKLER SERVICE LINE & SIZE
	GATE VALVE
M	WATER METER
FH	FIRE HYDRANT ASSEMBLY
FDC	FIRE DEPARTMENT CONNECTION
DC	DETECTOR CHECK VALVE
DDC	DOUBLE DETECTOR CHECK VALVE
RP	REDUCED PRESSURE BACKFLOW PREVENTER
N	BUTTERFLY VALVE
1"	AIR RELEASE VALVE + SIZE
1"	BLOW-OFF VALVE + SIZE
PIV	POST INDICATOR VALVE

GENERAL NOTES:

1. THE TYPES, LOCATIONS, SIZES, AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBERS OF UNDERGROUND SERVICE ALERT (USA) TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING TOLL FREE 1-800-227-2600, OR 811.

Know what's below. Call before you dig.

2. WARREN CONSULTING ENGINEERS, INC. (WCE) ASSUMES NO RESPONSIBILITY FOR ERRORS IN PHYSICAL LOCATION OF IMPROVEMENTS, HORIZONTAL OR VERTICAL, IF STAKED BY OTHERS. IN ADDITION, ANY SUCH ERRORS IN PHYSICAL LOCATION MAY AFFECT THE INTENDED DESIGN OF SUCH IMPROVEMENTS AND WCE CANNOT BE HELD RESPONSIBLE FOR SUCH CONDITIONS WHICH ARE A RESULT OF ERRORS IN SURVEYING, OR IMPROPER CONSTRUCTION.

3. IF SUBSURFACE CULTURAL RESOURCES, REMAINS, AND/OR ARTIFACTS ARE UNCOVERED DURING PROJECT CONSTRUCTION, ALL WORK IN THE VICINITY SHALL BE STOPPED UNTIL SUCH ITEMS CAN BE ASSESSED BY AN APPROPRIATE MEMBER OF THE COUNTY ENVIRONMENTAL IMPACT SECTION STAFF.

4. CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

5. THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY FOR ALL EXCAVATIONS OF 5 FEET OR MORE IN DEPTH.

6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY PRE-BID AND PRE-CONSTRUCTION SITE INSPECTION, AND/OR OBSERVATIONS ON THE SITE TO PRE-DETERMINE ALL HIS/HER MEANS AND METHODS NECESSARY TO COMPLETE THE IMPROVEMENTS SHOWN ON THESE PLANS AND PER THE PROJECT SPECIFICATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE, AND INCLUDE IN HIS/HER CONTRACT, ALL MEANS AND METHODS NECESSARY TO PERFORM A COMPLETE AND ACCEPTABLE JOB.

7. WHERE IMPROVEMENTS LIE WITHIN AN EXISTING DEVELOPED AREA, CONTRACTOR SHALL USE CAUTION WHEN ACCESSING THE SITE THROUGH THESE EXISTING IMPROVEMENTS. IT IS THE CONTRACTORS RESPONSIBILITY TO PROTECT ANY SUCH EXISTING IMPROVEMENTS OUTSIDE THE PROJECT BOUNDARY, OR EXISTING IMPROVEMENTS WITHIN THE BOUNDARY WHICH ARE TO REMAIN. PROPER PRECAUTIONS SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER.

8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP DETAILED RECORDS OF MINOR CHANGES OR ADJUSTMENTS MADE DURING CONSTRUCTION (WHICH WERE NOT FORMALLY ISSUED). UPON PROJECT COMPLETION, THESE RECORDS AND/OR INFORMATION SHALL BE PROVIDED TO THE OWNER AND WARREN CONSULTING ENGINEERS, INC. UNLESS AN OFFICIAL "AS-BUILT" SET OF PLANS IS A REQUIREMENT OF THE CONTRACT. IF AS-BUILT PLANS ARE A REQUIREMENT OF THE CONTRACT, REFER TO SPECIFICATIONS FOR AS-BUILT DELIVERABLE REQUIREMENTS.

9. IN VEHICULAR PATHWAYS, EXISTING ASPHALTIC AND/OR CONCRETE SURFACES SHALL BE CUT TO A NEAT AND STRAIGHT LINE, PARALLEL OR PERPENDICULAR TO THE VEHICULAR TRAVELED PATH. THIS IS TYPICALLY THE ROADWAY CENTERLINE, BUT MAY VARY. THAT SAWCUT EDGE SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION SO A CLEAN EDGE REMAINS FOR PATCH BACK.. IF EDGE IS DAMAGED, A NEW SAW CUT WILL BE REQUIRED. THE EXPOSED EDGE SHALL BE "TACKED" WITH EMULSION PRIOR TO PAVING.

10. NO BURNING OR BLASTING SHALL BE ALLOWED ONSITE UNLESS SPECIFICALLY ADDRESSED ON PLANS, OR SPECIFICALLY APPROVED AND COORDINATED WITH THE ARCHITECT, ENGINEER, AND LOCAL AGENCY OR OTHER ADMINISTRATIVE AUTHORITY.

11. SUBGRADE AND RESULTING FINISHED GRADE SHALL BE CONSTRUCTED SMOOTH AND UNIFORM BETWEEN SPOT ELEVATIONS, CONTOURS OR OTHER STRUCTURE ELEVATIONS SHOWN ON GRADING OR OTHER PLANS. NO MOUNDS, RUTS, DEPRESSIONS OR OTHER GRADING DEFICIENCIES WILL BE ALLOWED UNLESS SPECIFICALLY SHOWN ON PLANS.

12. ON NEW WATER SYSTEMS, SERVICE LATERALS SHALL BE MADE USING APPROPRIATE "TEE" AND "WYE" FITTINGS. SADDLE TAPS WILL ONLY BE ALLOWED WHEN MAKING CONNECTIONS TO EXISTING WATER MAINS.

13. CURING COMPOUND SHALL BE APPLIED IN A CONTINUOUS SOLID WET FLOWING COAT. ANY "SPOTTY" APPLICATIONS SHALL BE RECOATED IMMEDIATELY. APPLICATION SHALL BE INSPECTED BY PROJECT INSPECTOR DURING APPLICATION.

14. EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE ADDITIONAL SCORE OR EXPANSION JOINTS TO PREVENT UNCONTROLLED CRACKING. THOSE ADDITIONAL JOINTS MAY OR MAY NOT BE SPECIFICALLY SHOWN ON PLANS BUT SHALL BE PROVIDED BY THE CONTRACTOR.

15. EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE A MINOR ADJUSTMENT OF REBAR WITHIN CONCRETE TO ALLOW FOR SUCH STRUCTURE. THAT REBAR ADJUSTMENT MAY NOT BE SPECIFICALLY SHOWN ON PLANS.

16. NO MORE THAN 1 GALLON OF WATER PER YARD OF CONCRETE CAN BE ADDED TO THE TRUCK AFTER ARRIVAL TO PROJECT SITE. THE ADDITION OF WATER CAN ONLY BE ADDED UNDER THE SUPERVISION OF THE CONCRETE INSPECTOR OR LABORATORY TECHNICIAN.

17. WHEN PUMPING CONCRETE FOR PLACEMENT, ABSOLUTELY NO WATER IS TO BE ADDED TO PUMP HOPPER. ANY WATER ADDED TO HOPPER WILL BE REASON FOR CONCRETE REJECTION AT THE CONTRACTORS EXPENSE.

18. ALL CONTRACTION/CONSTRUCTION JOINTS "CJ" SHALL BE 1/4 THE SLAB THICKNESS DEEP, BUT NO LESS THAN 1" FOR CONTROLLING OF CRACKING. CONTRACTOR SHALL EXERCISE CAUTION WHEN FINAL TROWELING OF CONCRETE SO AS NOT TO FILL IN THESE JOINTS WITH CONCRETE CREAM. ANY CRACKS OUTSIDE OF JOINTS WHICH WERE CONSTRUCTED LESS THAN 1" DEEP, SHALL BE CAUSE FOR CONCRETE SLAB(S) TO BE REMOVED AND REPLACE AT CONTRACTORS EXPENSE.

19. ANY SCREED BOARDS SET WITHIN CONCRETE SLABS SHALL BE AN "OVERHEAD SCREED" SO THERE IS NO INTERFERENCE WITH THE PLACEMENT AND ALIGNMENT OF SLAB REINFORCING.

20. 3-1/2" FELT JOINTS WILL NOT BE ACCEPTED. PROVIDE A FULL 4" FELT JOINT FOR 4" SLAB CONSTRUCTION, AND A 6" FELT JOINT FOR A 6" SLAB SLAB CONSTRUCTION.

21. SHOULD ANY SHRINKAGE CRACKS OCCUR OUTSIDE OF EITHER THE EXPANSION JOINTS OR CRACK CONTROL JOINTS, THEN THE CONCRETE SLAB SHALL BE SAWCUT AT THE NEAREST JOINTS ON EACH SIDE OF THE CRACK AND THE CONCRETE SECTION SHALL BE, REMOVED AND REPLACED. NEW CONCRETE SHALL BE DOWELED INTO EXISTING CONCRETE PER DRAWING DETAIL.

22. ALL AREAS DISTURBED BY GRADING OPERATIONS WHETHER SHOWN ON THE DRAWINGS OR NOT SHALL BE HYDRO SEEDED UNLESS OTHERWISE NOTED. HYDRO SEEDING SHALL CONFORM TO LOCAL CITY/COUNTY STANDARDS.

23. REPAIR OR PATCHING OF GALVANIZED METALS, SUCH AS AFTER WELDING GALVANIZED COMPONENTS, SHALL BE MADE USING A ZINC COMPOSITION "HOT STICK" APPLICATION PER ASTM A 780-01. GALVANIZING PAINTS WILL NOT BE ALLOWED.

GENERAL PAVING SURFACE NOTES:

1. PROVIDE EQUIVALENT OF MEDIUM BROOM FINISH AT SLOPES UP TO 5.99%, TYPICAL. PROVIDE EQUIVALENT OF HEAVY BROOM FINISH AT SLOPES 6% AND GREATER. REFER TO SPECIFICATIONS.

2. ALL NEW PEDESTRIAN WALKWAYS (NON-RAMP) SHALL BE SLOPED NO GREATER THAN 2.0%, AND NO LESS THAN 0.75% IN ANY DIRECTION, UNLESS SPECIFICALLY LABELED OTHERWISE. ALL CONCRETE SHALL MEET THE FOLLOWING SLOPE REQUIREMENTS:
   - NO GREATER THAN 5% SLOPE IN THE DIRECTION OF TRAVEL.
   - NO GREATER THAN 2% SLOPE CROSSING THE DIRECTION OF TRAVEL.
   - NO GREATER THAN 2% SLOPE IN ANY DIRECTION IN COURTYARD OR PLAZA AREAS.

SHEET INDEX

C0.0	GENERAL NOTES AND ABBREVIATIONS
C0.1	TOPOGRAPHIC SURVEY
C1.1	DEMOLITION PLAN
C2.1	GRADING, PAVING AND DRAINAGE PLAN

AGENCY APPROVAL DSA# 02-121945
19-50

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

196 ARCHITECTS
1715 R STREET, SUITE 200
SACRMENTO, CA 95811
TEL (916) 786-8178

CONSULTANTS

CIVIL ENGINEER
Warren Consulting Engineers, Inc
1117 Windfield Way, Suite 110
El Dorado Hills, CA 95762
TEL (916) 985-1870

ELECTRICAL ENGINEER
The Engineering Enterprise
1125 High Street
Auburn, CA 95603
TEL (530) 886-8556

WCE
WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
ANTHONY J. TASSANO
NO. C74606
OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION
-		
-		

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE

LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE

GENERAL NOTES AND ABBREVIATIONS

DRAWN BY: GV JOB NUMBER: 23219

SHEET NO.

C0.0

DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED:Tuesday, November 28, 2023 FILE LOCATION: I:\23-107\CIVIL\DWG\23-107 C0.0.DWG

EXISTING TOPOGRAPHY

- PROPERTY LINE
- CENTERLINE
- EASEMENT
- PROPERTY CORNER FOUND AS NOTED
- PROPERTY CORNER NOTHING FOUND OR SET
- TEMPORARY BENCHMARK (SEE TBM LIST FOR INFO)
- SWALE OR DRAINAGE FLOW
- DRAINAGE FLOW
- FENCE (TYPE NOTED)
- TREE (SIZE/TYPE INDICATED)
- SLOPE
- CONTOUR
- CONCRETE SURFACE
- EDGE OF ASPHALT
- EDGE OF BUILDING
- SIGN
- POST OR BOLLARD
- GROUND ELEVATION
- HARD SURFACE ELEVATION

EXISTING UTILITIES

- STORM DRAIN LINE (SIZE + DIRECTION OF FLOW)
- STORM DRAIN LINE (RECORD INFORMATION)
- STORM DRAIN LINE (UNDERGROUND LOCATING)
- STORM DRAIN MANHOLE
- STORM DRAIN CLEANOUT
- DROP INLET
- AREA DRAIN
- RAIN WATER LEADER
- DOWNSPOUT
- SANITARY SEWER LINE (SIZE + DIRECTION OF FLOW)
- SANITARY SEWER LINE (RECORD INFORMATION)
- SANITARY SEWER LINE (UNDERGROUND LOCATING)
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- WATER LINE (SIZE INDICATED)
- WATER LINE (RECORD INFORMATION)
- WATER LINE (UNDERGROUND LOCATING)
- WATER MANHOLE
- WATER VALVE
- WATER METER
- WATER BOX
- IRRIGATION CONTROL VALVE
- FIRE HYDRANT
- BACKFLOW PREVENTER
- SPRINKLER
- HOSE BIBB
- OVERHEAD ELECTRIC LINE
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND ELECTRIC LINE (RECORD INFORMATION)
- UNDERGROUND ELECTRIC LINE (UNDERGROUND LOCATING)
- ELECTRIC MANHOLE
- UTILITY POLE (WITH GUY WIRE)
- ELECTRIC METER
- ELECTRIC BOX
- STREET LIGHTING BOX
- LIGHT STANDARD
- SIGNAL LIGHT
- FLOOD LIGHT
- ELECTRICAL OUTLET
- GAS LINE (SIZE INDICATED)
- GAS LINE (RECORD INFORMATION)
- GAS LINE (UNDERGROUND LOCATING)
- GAS MANHOLE
- GAS VALVE
- GAS METER
- TELEPHONE LINE
- TELEPHONE LINE (RECORD INFORMATION)
- TELEPHONE LINE (UNDERGROUND LOCATING)
- STORM DRAIN BOX
- TRAFFIC SIGNAL BOX

ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED ON THESE PLANS.

??	UNKNOWN
AC	ASPHALTIC CONCRETE
ACC	ACCESSIBLE
ACU	AIR CONDITIONING UNIT
AD	AREA DRAIN
APN	ASSESSOR'S PARCEL NUMBER
ARV	AIR RELEASE VALVE
BBALL	BASKETBALL POLE
BCM	BRASS CAP MONUMENT
BFP	BACK FLOW PREVENTER
BL	BLOCK
BLDG	BUILDING
BOL	BOLLARD
BOV	BLOW-OFF VALVE
BR	BRICK
BWF	BARBED WIRE FENCE
C	COMMUNICATION
CATV	CABLE TELEVISION
CIP	CAPPED IRON PIPE
CLF	CHAIN LINK FENCE
C/L	CENTERLINE
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
COND	CONDENSATE
CPF	CONTROL POINT FOUND
CPS	CONTROL POINT SET
CS	CONCRETE SURFACE
DF	DRINKING FOUNTAIN
DG	DECOMPOSED GRANITE
DI	DROP INLET
DRWY	DRIVEWAY
DS	DOWNSPOUT
DWG	DRAWING
E	ELECTRIC
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
FA	FIRE ALARM
FDC	FIRE DEPARTMENT CONNECTION
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FL	FLOWLINE
FO	FIBER OPTIC
FS	FIRE SERVICE
G	GAS
GB	GRADE BREAK
GR	GRATE
GRD	GROUND ROD BOX
GROD	GROUND ROD
GV	GAS VALVE
HB	HOSE BIBB
HBB	HOSE BIBB BOX
HBD	HEADER BOARD
HP	HIGH PRESSURE
HR	HANDRAIL
HVE	HIGH VOLTAGE ELECTRIC
IC	IN CONCRETE
ICP	IRRIGATION CONTROL PANEL
ICV	IRRIGATION CONTROL VALVE
INV	PIPE INVERT ELEVATION
IRR	IRRIGATION
JP	JOINT UTILITY POLE
JT	JOINT TRENCH
LNDG	LANDING
LVE	LOW VOLTAGE ELECTRIC
M	METAL
MH	MANHOLE
MS	MOW STRIP
MSC	METAL STORAGE CONTAINER
NTS	NOT TO SCALE
OH	OVERHEAD
OHANG	OVERHANG
OIP	OPEN IRON PIPE
PA	PLANTER AREA
PH	POSTHOLE
PIV	POST INDICATOR VALVE
P/L	PROPERTY LINE
PP	POWER POLE
PR1	PER RECORD INFORMATION
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE
R	RUBBER
RIM	MANHOLE RIM ELEVATION
ROW	RIGHT OF WAY
RW	RETAINING WALL
RWD	REDWOOD TREE
RWL	RAIN WATER LEADER
SB	SIGNAL BOX
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SIG	SIGNAL
SL	STREET LIGHT
SLB	STREET LIGHT BOX
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
SSMH	SANITARY SEWER MANHOLE
STL	STEEL
T	TELEPHONE
TBALL	TETHER BALL POLE
TBM	TEMPORARY BENCHMARK
TC	TOP OF CURB
TD	TRENCH DRAIN
TP	TELEPHONE POLE
TRW	TOP OF RETAINING WALL
UG	UNDERGROUND
UNK	UNKNOWN
UON	UNLESS OTHERWISE NOTED
VBALL	VOLLEYBALL
W	WATER
W/	WITH
WD	WOOD
WF	WOOD FENCE
W.I.F.	WROUGHT IRON FENCE
XF	TRANSFORMER
XWALK	CROSSWALK
YD	YARD DRAIN

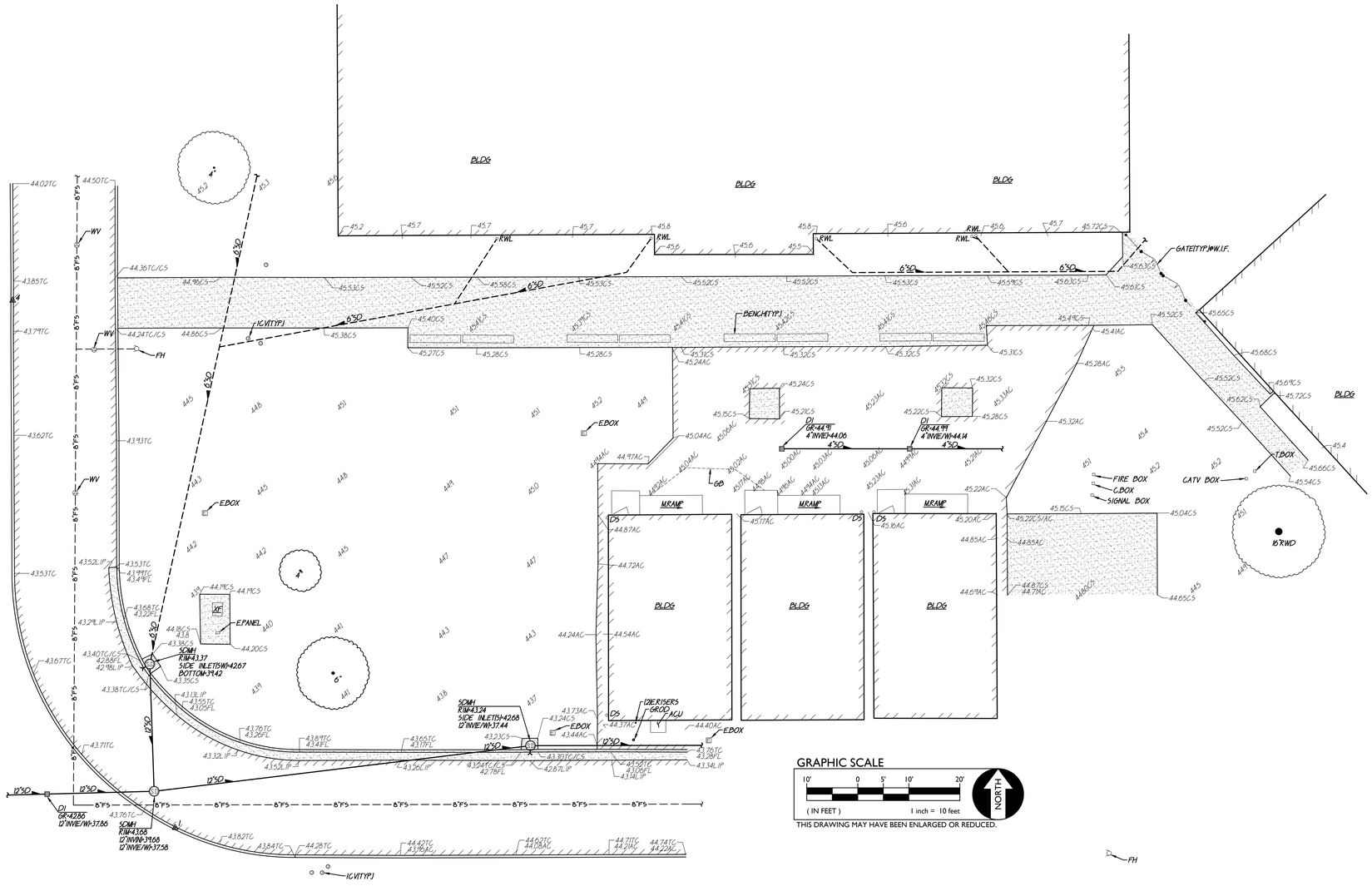
TBM LIST

NUMBER	DESCRIPTION	NORTHING	EASTING	ELEVATION
1	CPS CHISELED "+"	10000.46	9999.72	43.81
2	CPS CHISELED "+"	9991.25	10487.64	43.44
4	CPS CHISELED "+"	10103.81	9967.87	43.82
5	CPS CHISELED "+"	10332.85	9963.94	43.80
6	CPS CHISELED "+"	10432.80	9964.26	43.76
7	CPF BM1207 EL.43.328	9803.54	10428.34	43.33
1000	CPS CHISELED "+"	9991.11	10494.45	43.74

BASIS OF BEARINGS:
ASSUMED

F.E.M.A. INFORMATION:
THE SUBJECT PROPERTY IS LOCATED IN ZONE X (SHADED) - AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD" PER FLOOD INSURANCE RATE MAP 06077C0168F DATED OCTOBER 16, 2009.

NOTE:
EXISTING UTILITIES BASED ON VISIBLE SURFACE STRUCTURES AND RECORD INFORMATION.



GRAPHIC SCALE

10' 0 5' 10' 20'

(IN FEET) 1 inch = 10 feet

NORTH

THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.

A.P.N.	029-400-040
BENCHMARK NO. BM 1207	ELEV. 43.328
SOUTHWEST CORNER ELM ST. + MILLS AVE. 10.2' W/ CL OF CURB RETURN ON ELM ST., 0.5' BEHIND BOC	

AGENCY APPROVAL DSA# 02-121945 19-50

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

196 ARCHITECTS
1715 R STREET, SUITE 200
SACRMENTO, CA 95811
TEL (916) 786-8178

CONSULTANTS

CIVIL ENGINEER
Warren Consulting Engineers, Inc
1117 Windfield Way, Suite 110
El Dorado Hills, CA 95762
TEL (916) 985-1870

ELECTRICAL ENGINEER
The Engineering Enterprise
1125 High Street
Auburn, CA 95603
TEL (530) 886-8556

WCE
WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
ANTHONY J. TASSANO
NO. 074696
OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION
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PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
TOPOGRAPHIC SURVEY

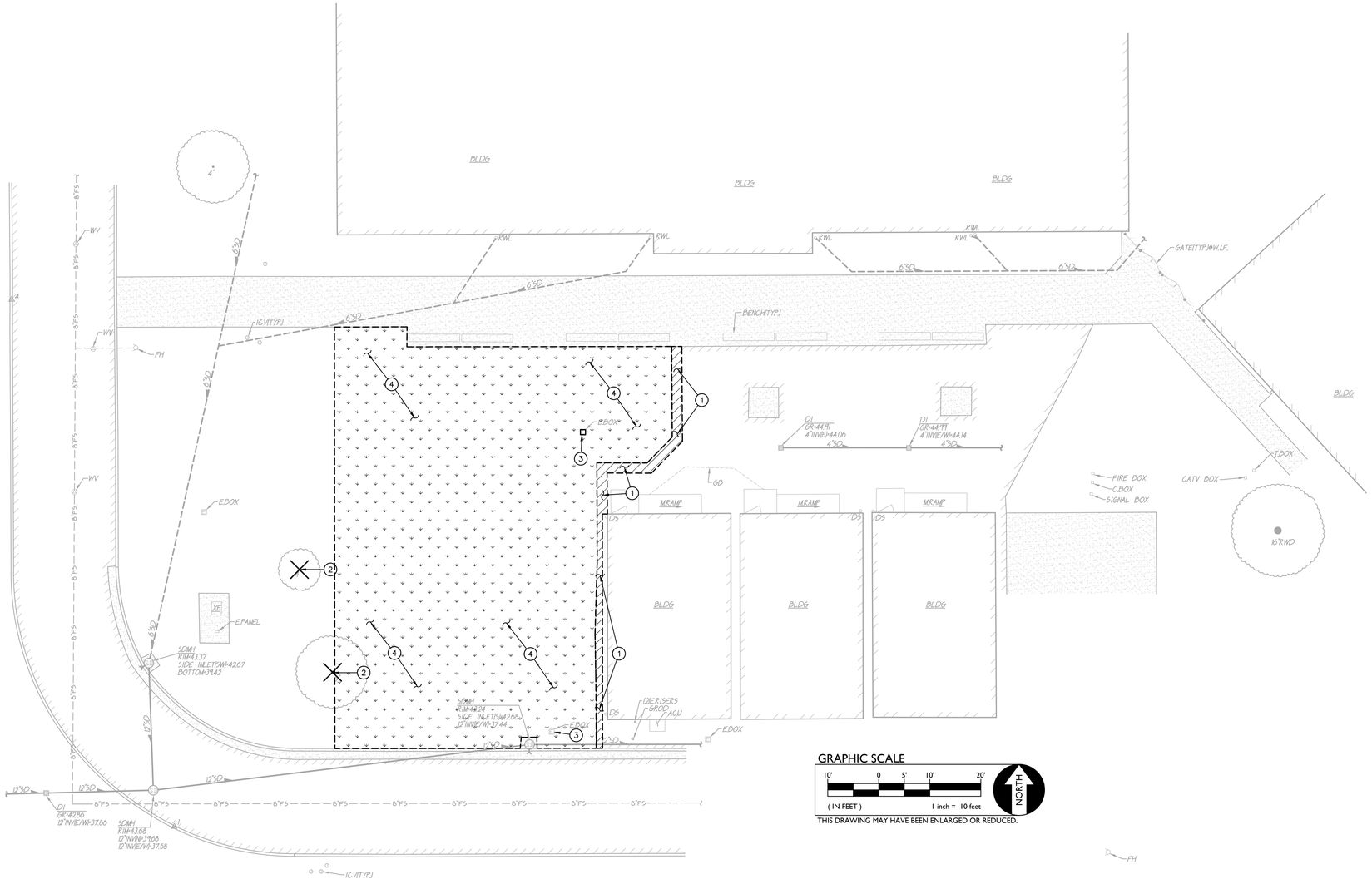
DRAWN BY: GV JOB NUMBER: 23219

SHEET NO.
C0.1

DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: Tuesday, November 28, 2023 FILE LOCATION: I:\23-107\CIVIL\DWG\23-107 C0.1.DWG



GRAPHIC SCALE

10' 0 5' 10' 20'

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DEMOLITION NOTES

1. SAWCUT, REMOVE AND DISPOSE OF EXISTING ASPHALT PAVING AND ASSOCIATED AGGREGATE BASE.
2. REMOVE AND DISPOSE OF EXISTING TREE/STUMP, TRUNK AND ROOTS.
3. EXISTING ELECTRICAL BOX TO REMAIN AND BE PROTECTED.
4. REMOVE AND DISPOSE OF TURF/VEGETATION AS REQUIRED TO ALLOW FOR PROPOSED CONSTRUCTION. IRRIGATION PIPING AND SPRINKLER HEADS IN CONFLICT WITH PROPOSED CONSTRUCTION SHALL BE REMOVED.

DEMOLITION GENERAL NOTES

1. IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THE GEOTECHNICAL INVESTIGATION REPORT OR ARE ENCOUNTERED DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER AND THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.
2. NO BURNING OR BLASTING SHALL BE PERMITTED.
3. ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.
4. ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.
5. ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.
6. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN IN THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY THE DISTRICT TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK IN ORDER TO VERIFY TO THE GREATEST EXTENT POSSIBLE THE EXISTING UTILITY LINES, CONFLICTS AND PROPOSED UTILITY CONNECTION POINTS.
7. THE SCHOOL DISTRICT SHALL HAVE SALVAGE RIGHTS TO ANY DEMOLISHED ITEMS SHOWN HEREON. THE CONTRACTOR SHALL GIVE THE DISTRICT NOTICE 7 DAYS PRIOR TO THE START OF DEMOLITION. THE DISTRICT SHALL MOVE ANY RETAINED ITEMS OUT OF THE CONTRACTORS WORK AREA, UNLESS ANOTHER ARRANGEMENT IS MADE WITH THE CONTRACTOR. ANY REMAINING ITEMS BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. ANY ITEMS NOT SHOWN FOR REMOVAL SHALL REMAIN AND SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION TO A REASONABLE EXTEND.
8. EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED, REPLACED AND REINSTALLED AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
9. ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
10. CONTRACTOR SHALL COMPLY WITH CHAPTER 33 OF THE 2022 CFC, "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION" AT ALL TIMES DURING CONSTRUCTION.
11. CONTRACTOR SHALL HIRE A UTILITY LOCATING COMPANY AND SHALL SCAN THE ENTIRE AREA WITHIN THE LIMITS OF NEW WORK. ALL UTILITIES LOCATED SHALL BE MARKED AND PROTECTED DURING THE LIMING OPERATIONS AS WELL AS ANY EXCAVATING TASKS. ANY UTILITY DAMAGED WITHIN THE LIMITS OF WORK WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR.
12. ALL DEMOLITION SHALL BE APPROPRIATELY SUPPORTED AND REINFORCED DURING REMOVAL TO PREVENT INJURY FROM FALLING, PROJECTILE, OR OTHERWISE MOVING DEBRIS OR OTHER DELETERIOUS MATERIAL. ONSITE SAFETY WITHIN THE LIMITS OF WORK IS THE CONTRACTORS SOLE RESPONSIBILITY.
13. SAWCUTS AND SUBSEQUENT PATCH BACK OF CONCRETE WALKS, SHALL BE TO THE EXISTING CONCRETE JOINT BEYOND NEAREST THE LOCATION OF DEMOLITION AS SHOWN. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE, SHOW AND COORDINATE WITH EXISTING JOINTS, HOWEVER IF FIELD CONDITIONS ARE OTHERWISE, IT IS UNDERSTOOD TO REMOVE AND PATCH BACK TO THE NEAREST JOINTS BEYOND DEMOLITION.
14. CONTRACTOR SHALL AVOID DAMAGE TO EXISTING PLANTING AND IRRIGATION ALONG EDGES OF DEMOLITION AND NEW PAVEMENT. CONTRACTOR SHALL REPAIR ANY DAMAGE, TO INCLUDE NEW IRRIGATION LINES, NEW HEADS, NEW BARK/MULCH AND NEW SOD TURF WHERE NECESSARY.

AGENCY APPROVAL DSA# 02-121945
39-50

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DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

196 ARCHITECTS
1715 R STREET, SUITE 200
SACRMENTO, CA 95811
TEL (916) 786-8178

CONSULTANTS

CIVIL ENGINEER
Warren Consulting Engineers, Inc
1117 Windfield Way, Suite 110
El Dorado Hills, CA 95762
TEL (916) 985-1870

ELECTRICAL ENGINEER
The Engineering Enterprise
1125 High Street
Auburn, CA 95603
TEL (530) 886-8556

WCE
WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
ANTHONY J. TASSANO
NO. C74698
STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION
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PROJECT OWNER & TITLE

LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE

DEMOLITION PLAN

DRAWN BY: GV JOB NUMBER: 23219

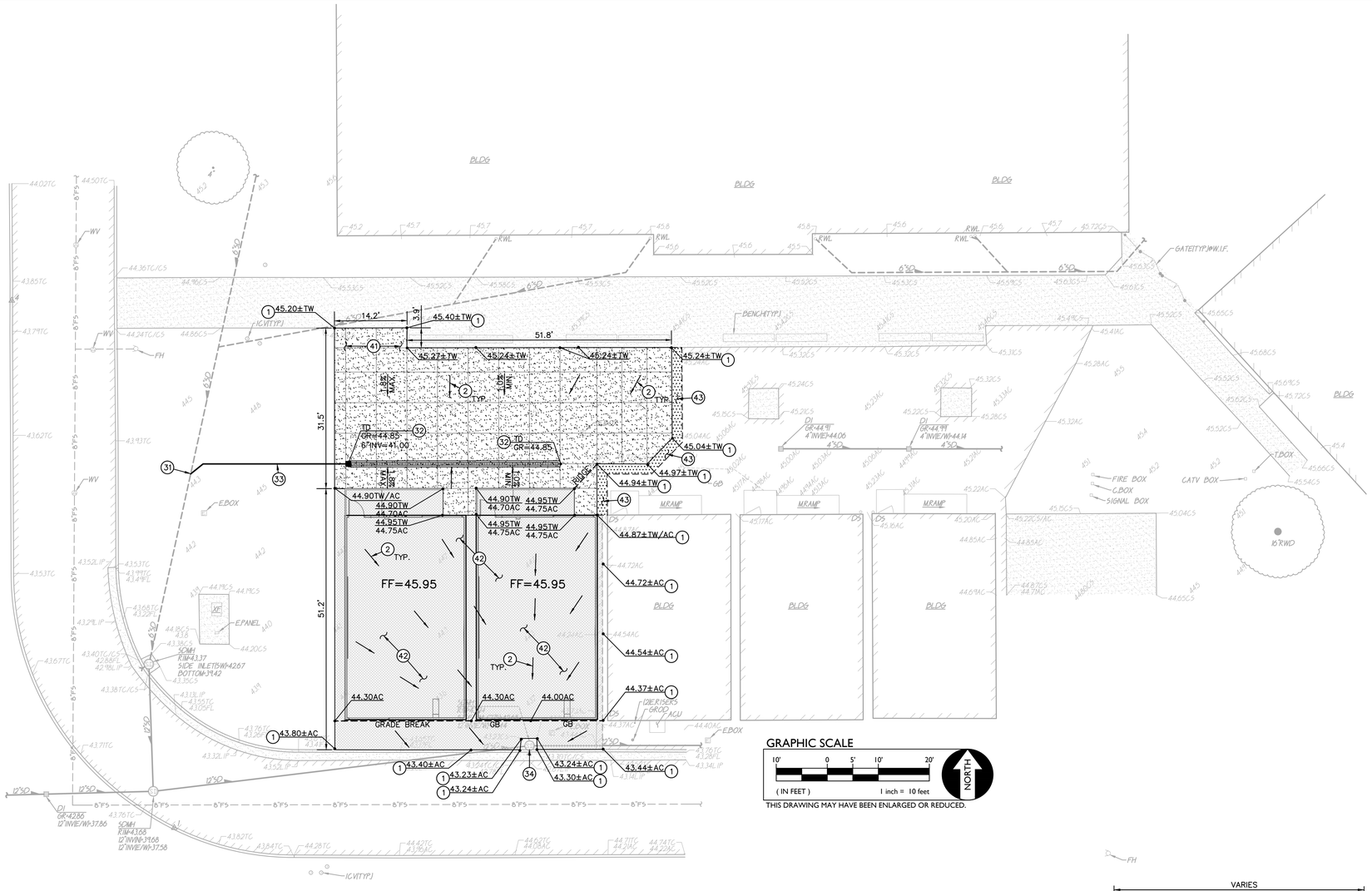
SHEET NO.

C1.1

DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: Tuesday, November 28, 2023 FILE LOCATION: I:\23-107\CIVIL\DWG\23-107 C1.1.DWG



GRADING NOTES

1. MATCH EXISTING GRADE/ELEVATION.
2. UNIFORMLY GRADE TOWARDS INLET/SWALE

DRAINAGE NOTES:

31. CONNECT TO EXISTING STORM DRAIN LINE OR STRUCTURE. POTHOLE TO VERIFY DEPTH AND LOCATION PRIOR TO TRENCHING.
32. CONSTRUCT TRENCH DRAIN PER (3/C2.1)
33. PLACE 6" STORM DRAIN PER (2/C2.1)
34. REPLACE MANHOLE COVER WITH GRATED TOP.

PAVING LEGEND

(41) TYPE 1 PAVING
PLACE 5" PCC WITH #4 REBAR @ 24" O.C.E.W. OVER 12" CLASS II AB ON COMPACTED SUBGRADE PER SPECIFICATIONS. (1/C2.1)

(42) TYPE 2 PAVING
PLACE 3" AC OVER 12" CLASS II AB COMPACTED WITH HEADER BOARD PER, ON COMPACTED SUBGRADE, COMPACTION TO BE PER SPECIFICATIONS. (4/C2.1)

(43) TYPE 3 PAVING
PATCH BACK AC PAVING. MATCH EXISTING SECTION.

GRAPHIC SCALE
10' 0 5' 10' 20'
(IN FEET) 1 inch = 10 feet
NORTH
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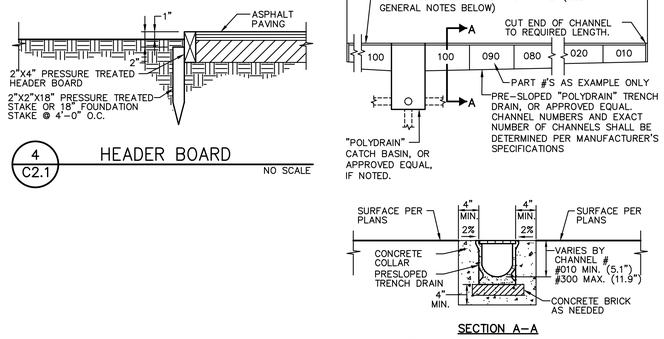


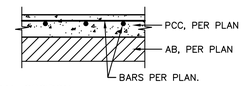
SECTION A–A

GENERAL NOTES:

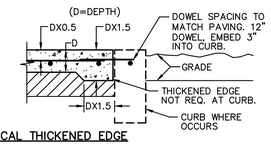
1. GRATE SHALL ADA ACCESSIBLE, POLYDRAIN MODEL 2410 OR APPROVED EQUAL. IF PLACED IN FIRE LANE OR AREA DESIGNATED FOR VEHICLE TRAFFIC PROVIDE POLYDRAIN MODEL 2506.
2. IF TRENCH DRAIN IS PLACED IN FIRE LANE OR AREA DESIGNATED FOR VEHICLE TRAFFIC PROVIDE GALVANIZED STEEL "OVERLAY RAILS" AS SUPPLIED BY POLYDRAIN, OR APPROVED EQUAL.
3. CONTRACTOR SHALL FURNISH AND INSTALL A MODEL 2811B LOCKING DEVICE, OR APPROVED EQUAL, FOR ALL TRENCH DRAIN GRATES.
4. CONTRACTOR SHALL FURNISH AND INSTALL A TRASH BUCKET, MODEL 2900, IN ALL TRENCH DRAIN CATCH BASINS.
5. CONTRACTOR SHALL PURCHASE AND FURNISH THE MAINTINANCE/OPERATIONS DEPARTMENT OF THE SCHOOL WITH 2 MODEL 2231 TRENCH DRAIN SHOVEL HEADS, WITH STANDARD WOOD, OR COMPOSITE HANDLES.
6. ALL MITERED JOINTS SHALL BE SEALED WITH POLYDRAIN "POLYSEAL" CAULKING OR APPROVED EQUAL.

(3/C2.1) TRENCH DRAIN DETAIL
NO SCALE

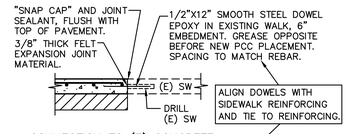
(4/C2.1) HEADER BOARD
NO SCALE



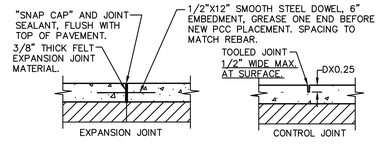
TYPICAL SECTION



TYPICAL THICKENED EDGE



CONNECTION TO (E) CONCRETE

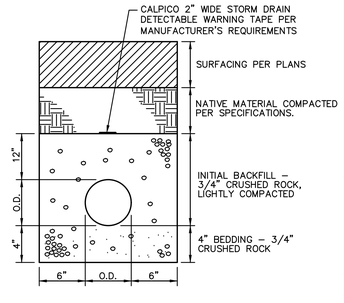


TYPICAL JOINTS

NOTES:

1. PROVIDE FELT EXPANSION JOINTS AT 20 FEET O.C. MAX. SEE PLAN FOR LAYOUT.
2. PROVIDE CONTROL JOINTS AT 10 FEET O.C. MAX. SEE PLAN FOR LAYOUT.
3. EXPANSION OR CONTROL JOINTS SHALL NOT EXCEED 1/2" IN SURFACE WIDTH.

(1/C2.1) CONCRETE SIDEWALK
NO SCALE



(2/C2.1) STORM DRAIN TRENCH
NO SCALE

AGENCY APPROVAL DSA# 02-121945
19-50

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SACRMENTO, CA 95811
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PROFESSIONAL STAMP
REGISTERED PROFESSIONAL ENGINEER ANTHONY J. TASSANO NO. 074696 OF CALIFORNIA

REVISIONS

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LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
GRADING, PAVING, AND DRAINAGE PLAN

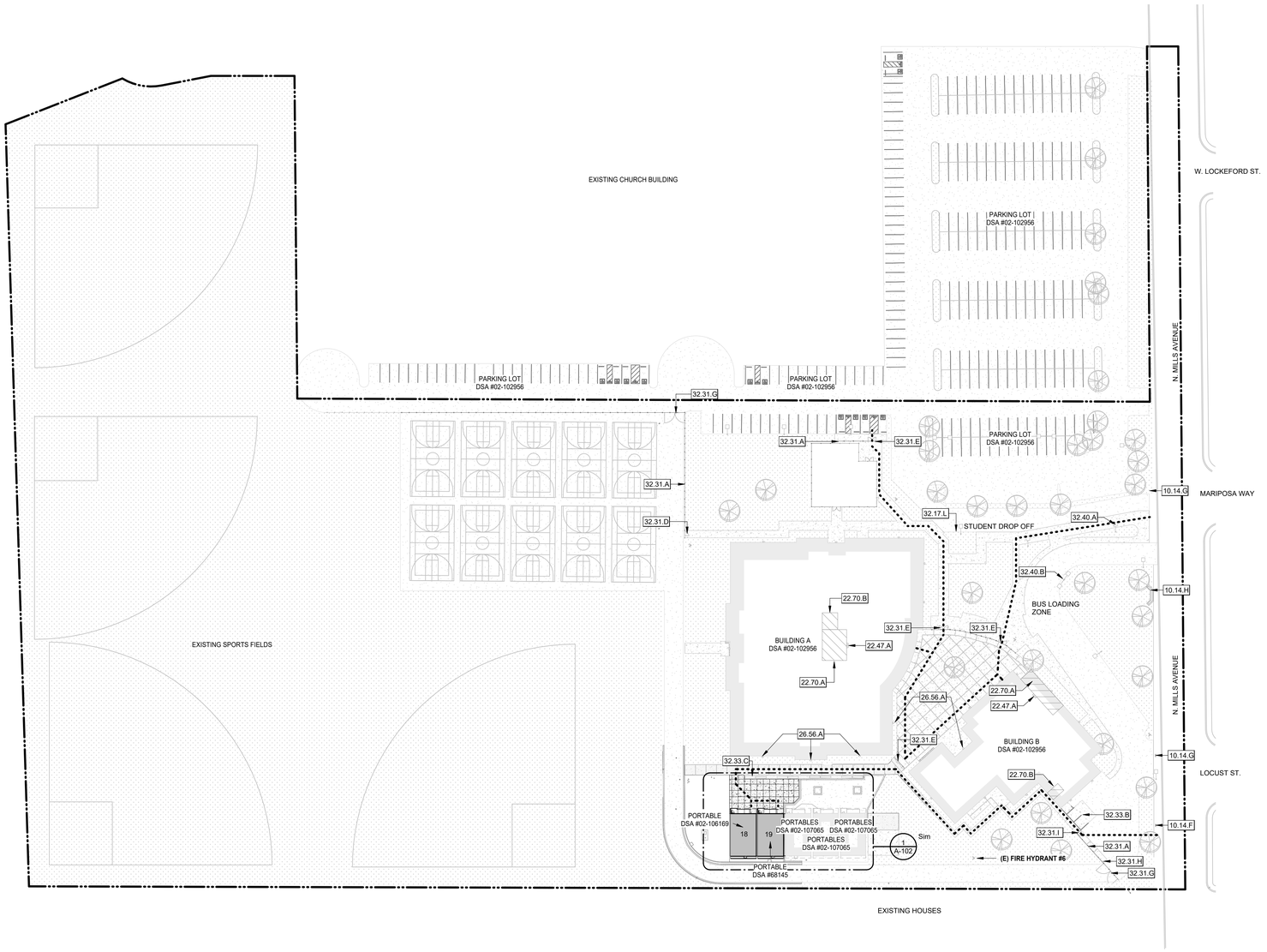
DRAWN BY: GV JOB NUMBER: 23219

SHEET NO.
C2.1

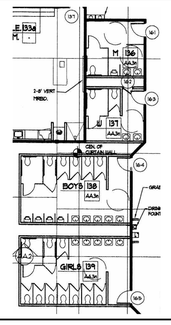
DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

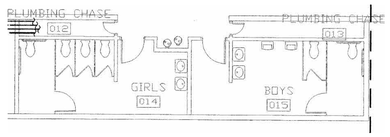
DATE PLOTTED: Tuesday, November 28, 2023 FILE LOCATION: I:\23-107\CIVIL\DWG\23-107 C2.1.DWG



SITE PLAN | 1" = 50'-0" | 1



REFERENCE **BUILDING A RESTROOMS**



REFERENCE **BUILDING B RESTROOMS**

KEYNOTES

NOTE: NOT ALL KEYNOTES ARE USED ON EVERYSHEET

10.14.F	(E) SCHOOL SPEED LIMIT SIGN
10.14.G	(E) ACCESS SIGN
10.14.H	(E) SCHOOL SIGN
22.47.A	HI-LOW DRINKING FOUNTAIN
22.70.A	(E) STUDENT RESTROOM LOCATED WITHIN (E) BUILDING DSA #02-102956
22.70.B	(E) STAFF RESTROOM LOCATED WITHIN (E) BUILDING DSA #02-102956
26.56.A	(E) EXTERIOR LIGHT FIXTURE
32.17.L	VERIY (E) STRIPING AT STUDENT DROP OFF. IF NOT, STRIPE AREA
32.31.A	(E) 6'-0" TALL CHAIN LINK FENCE
32.31.D	(E) SINGLE 3'-0" WIDE CHAIN LINK GATE WITH PANIC HARDWARE
32.31.E	(E) DOUBLE 3'-6" WIDE CHAIN LINK GATE WITH PANIC HARDWARE
32.31.G	(E) 20' WIDE DOUBLE SWING GATES
32.31.H	(E) KNOX BOX
32.31.I	(E) 4' WIDE MAN GATE WITH PANIC HARDWARE
32.33.B	(E) TRASH ENCLOSURE
32.33.C	(E) FIXED BENCH WITH METAL LEGS
32.40.A	(E) SINGLE FIXTURE LIGHT STANDARD
32.40.B	(E) DOUBLE FIXTURE LIGHT STANDARD

LEGEND -

1. SEE ELECTRICAL AND CIVIL DRAWINGS FOR UTILITIES.

CODE SITE GENERAL NOTES

1. ALL NEW CONCRETE AND AC PAVING IN P.O.T. SHALL HAVE 2% MAX. SLOPE IN ALL DIRECTIONS U.N.O. AND SHALL HAVE FLUSH TRANSITIONS TO ALL ADJACENT NEW AND EXISTING WALK SURFACES IN P.O.T .
2. ALL LANDSCAPE EDGES ALONG ALL NEW OR EXISTING WALK SURFACES IN P.O.T. SHALL BE PER CIVIL DRAWINGS.
3. FOR GRATINGS OR STRAINERS LOCATED IN THE SURFACE OF ANY PEDESTRIAN WAY OR IN P.O.T., THE MAXIMUM GRATE OR STRAINER OPENINGS SHALL NOT EXCEED 1/2" IN THE DIRECTION OF TRAFFIC FLOW.
4. THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR THE PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS, AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE NON-COMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NON-COMPLIANT ELEMENTS, COMPONENTS, OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS. DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NON-CONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

SITE PLAN LEGEND

- ASSUMED PROPERTY LINE
- LIMITS OF WORK
- PROJECT BUILDING
- (N) CONCRETE PAVING
  - EXPANSION JOINT PER
  - CONTROL JOINT PER
- (E) CONCRETE PAVING
- (E) BUILDING
- (E) LANDSCAPING
- (E) ASPHALT
- X——X——X——X (E) CHAIN LINK FENCE LINE
- FH (E) FIRE HYDRANT
- (E) EXTERIOR LIGHT FIXTURE
- (E) SINGLE FIXTURE LIGHT STANDARD
- (E) DOUBLE FIXTURE LIGHT STANDARD
- OVERHANG

PATH OF TRAVEL (P.O.T.)

- AS INDICATED, IS A COMMON BARRIER FREE ACCESS ROUTE
- IS AT LEAST 48" WIDE.
- NO ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL.
- THE PATH SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH.
- PASSING SPACES (11B-403.2) AT LEAST 60"x60" ARE LOCATED NOT MORE THAN 200' APART.
- PARTS OF P.O.T. WITH CONTINUOUS GRADIENTS HAVE 60" LEVEL AREAS (11B-403.7) NOT MORE THAN 400' APART.
- THE CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED.
- (POT) SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (11B-307).
- ARCHITECT SHALL VERIFY PATH OF TRAVEL CONFORMS WITH THE ABOVE.

AGENCY APPROVAL DSA# 02-121945
29-50

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

196 ARCHITECTS
1715 R STREET, SUITE 200
SACRMENTO, CA 95811
TEL (916) 786-8178

CONSULTANTS

CIVIL ENGINEER
Warren Consulting Engineers, Inc
1117 Windfield Way, Suite 110
El Dorado Hills, CA 95762
TEL (916) 985-1870

ELECTRICAL ENGINEER
The Engineering Enterprise
1125 High Street
Auburn, CA 95603
TEL (530) 886-8556

PROFESSIONAL STAMP

LICENSED ARCHITECT
MARINA ALVAREZ MARCY
C-36107
REN. 01 - 31 - 25
STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION
-		-
-		-

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

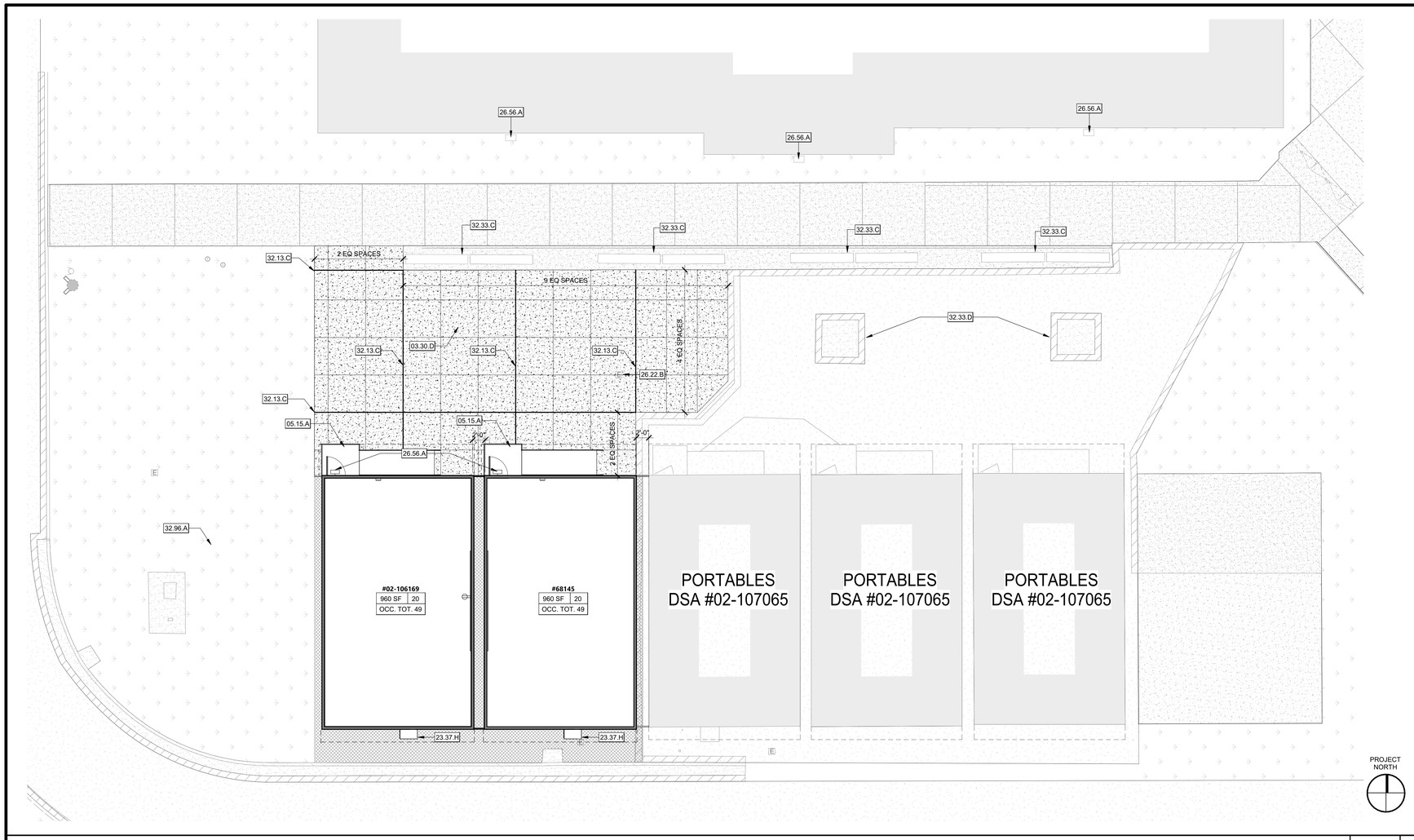
SHEET TITLE
OVERALL SITE PLAN

DRAWN BY: CV, BI JOB NUMBER: 23219

SHEET NO.
A-101
DATE: DECEMBER 12, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 12/12/2023 11:05:40 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK8V.rvt



ENLARGED SITE PLAN 1/8" = 1'-0" **1**

OCCUPANT CHART PER 2022 CBC TABLE 1004.5

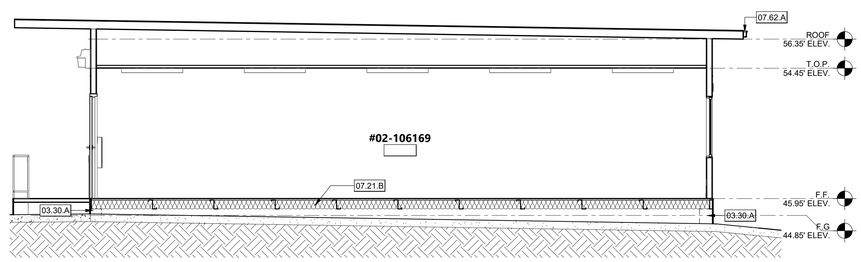
DSA APP. #	FUNCTION	N SF	SF/OCC.	OCC. #	OCCUPANCY TYPE	MAXIMUM OCCUPANT LOAD W/ 1 EXIT TABLE 1006.2.1	MIN. CLR. DOOR EXIT WIDTH	# EXITS REQUIRED	# EXITS PROVIDED
#02-106169	EDUCATIONAL CLASSROOM AREA	960 SF	20 SF	49	E	49	2'-8"	1	1
#68145	EDUCATIONAL CLASSROOM AREA	960 SF	20 SF	49	E	49	2'-8"	1	1
#02-107065	EDUCATIONAL CLASSROOM AREA	960 SF	20 SF	49	E	49	2'-8"	1	1
#02-107065	EDUCATIONAL CLASSROOM AREA	960 SF	20 SF	49	E	49	2'-8"	1	1
#02-107065	EDUCATIONAL CLASSROOM AREA	960 SF	20 SF	49	E	49	2'-8"	1	1
OCCUPANT TOTAL:				245					

602 CONSTRUCTION TYPE:

■ TYPE V-B

TOTAL AREA OF FIVE PORTABLES INCLUDING OVERHANG AND PROJECTIONS EQUALS 4,920 SF

ALLOWABLE AREA: 9,500 SF



SECTION 1/4" = 1'-0" **2**

KEYNOTES

NOTE: NOT ALL KEYNOTES ARE USED ON EVERYSHEET

03.30.A	(N) WOOD FOOTING PER PC STRUCTURAL DRAWINGS. SEE AMS S1 AND MODTECH F2.01.
03.30.D	(N) CONCRETE PAVING. S.C.D.
05.15.A	(N) METAL RAMP PC #04-122029
07.21.B	(N) R-11 INSULATION TO BE INSTALLED. SEE SECTION A/S2B AND B/S2B FOR AMS PORTABLE. SEE A8.1 FOR MODTECH.
07.62.A	(E) 5" BOX GALV. PRE-FINISHED GUTTER
23.37.H	(E) WALL MOUNTED HVAC UNIT
26.22.B	(E) ELECTRICAL BOX
26.56.A	(E) EXTERIOR LIGHT FIXTURE
32.13.C	EXPANSION JOINTS
32.33.C	(E) FIXED BENCH WITH METAL LEGS
32.33.D	(E) TREE PLANTERS
32.96.A	PATCH AND REPAIR GRASS, LANDSCAPE, AND IRRIGATION SURROUNDING (N) PORTABLES

LEGEND -

1. SEE ELECTRICAL AND CIVIL DRAWINGS FOR UTILITIES.

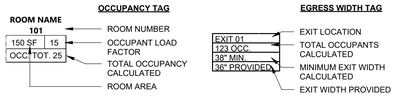
SITE PLAN LEGEND

- ASSUMED PROPERTY LINE
- LIMITS OF WORK
- PROJECT BUILDING
- (N) CONCRETE PAVING
  - EXPANSION JOINT PER
  - CONTROL JOINT PER
- (E) CONCRETE PAVING
- (E) BUILDING
- LANDSCAPING
- (E) ASPHALT
- X—X—X—X CHAIN LINK FENCE LINE
- OVERHANG
- FH EXISTING FIRE HYDRANT
- (E) EXTERIOR LIGHT FIXTURE
- (E) SINGLE FIXTURE LIGHT STANDARD
- (E) DOUBLE FIXTURE LIGHT STANDARD

OCCUPANCY TYPE

E

LEGEND - CODE ANALYSIS



AGENCY APPROVAL DSA# 02-121945
29-50

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

196 ARCHITECTS
1715 R STREET, SUITE 200
SACRMENTO, CA 95811
TEL (916) 786-8178

CONSULTANTS

CIVIL ENGINEER
Warren Consulting Engineers, Inc
1117 Windfield Way, Suite 110
El Dorado Hills, CA 95762
TEL (916) 985-1870

ELECTRICAL ENGINEER
The Engineering Enterprise
1125 High Street
Auburn, CA 95603
TEL (530) 886-8556

PROFESSIONAL STAMP

LICENSED ARCHITECT
MARIANA ALVAREZ BARGA
C-36107
EXP. 01-31-25
STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION
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PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
ENLARGED SITE PLAN AND CODE ANALYSIS

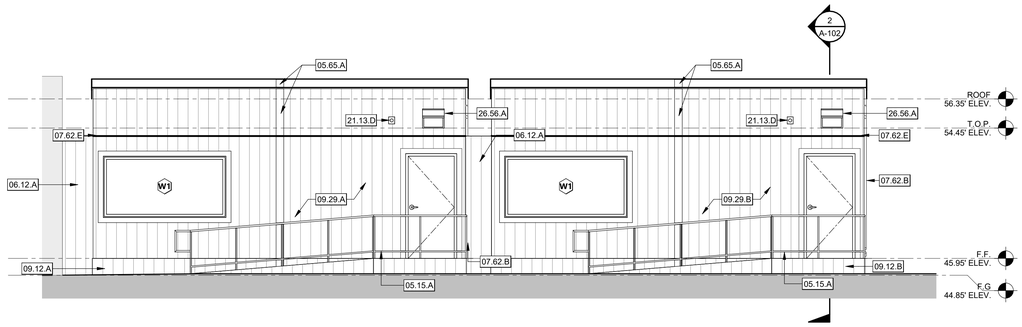
DRAWN BY: CV, BI JOB NUMBER: 23219

SHEET NO.
A-102

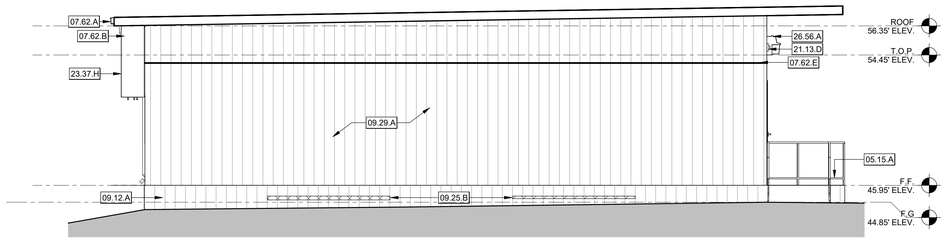
DATE: DECEMBER 12, 2023

CONSTRUCTION DOCUMENTS

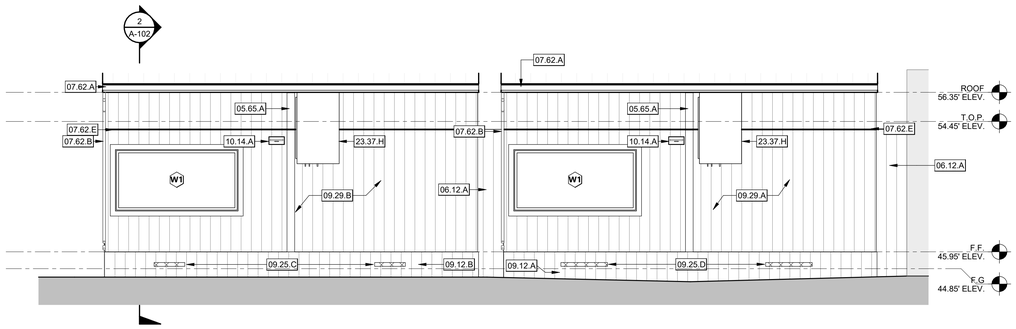
DATE PLOTTED: 12/12/2023 11:05:41 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK8V.rvt



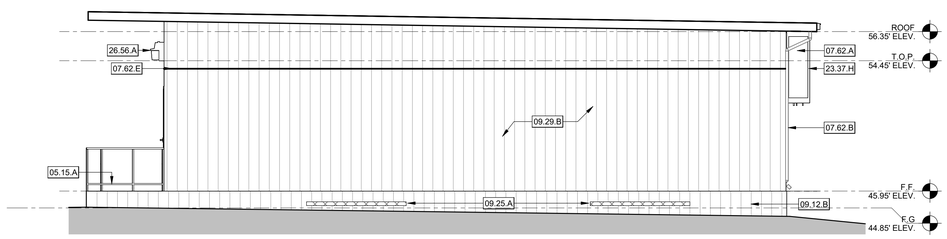
NORTH ELEVATION 1/4" = 1'-0" **1**



EAST ELEVATION 1/4" = 1'-0" **2**



SOUTH ELEVATION 1/4" = 1'-0" **3**



WEST ELEVATION 1/4" = 1'-0" **4**

KEYNOTES

NOTE: NOT ALL KEYNOTES ARE USED ON EVERYSHEET

05.15.A	(N) METAL RAMP PC #04-122029
05.65.A	SHEET METAL CLOSURE ANGLE, TYPICAL AT MOD-LINE TO BE INSTALLED BY CONTRACTOR PER AMS DRAWINGS SHEET 2 DETAILS A AND D AND DETAIL 2/S5
06.12.A	(N) 5/8" 303 SIDING CLOSURE PANEL. SEE AMS B/2. ADJUST OR REPLACE GALVANIZED Z FLASHING AS NECESSARY
07.62.A	(E) 5" BOX GALV. PRE-FINISHED GUTTER
07.62.B	(E) 2" DIA. SCHEDULE 40 DOWNSPOUT
07.62.E	(E) Z BAR FLASHING
09.12.A	(N) 5/8" 303 SIDING BUILDING SKIRT TO BE INSTALLED. SEE AMS B/2. ADJUST OR REPLACE GALVANIZED Z FLASHING AS NECESSARY
09.12.B	(N) BUILDING SKIRT TO BE INSTALLED. SEE MODTECH A8.0.
09.25.A	(E) 2 @ 3"x78" VENT ON SKIRT @ BOTH SIDEWALLS OF MODTECH PORTABLE #02-106169. SEE KEYNOTE 15 F2.01
09.25.B	(E) 1 @ 3"x96" VENT (REAR) AND 1 @ 2"x96" VENT (FRONT) ON SKIRT @ BOTH SIDEWALLS OF AMS PORTABLE #68145. SEE VENT DETAIL 3/2.
09.25.C	(E) 2 @ 3"x24" VENT ON SKIRT @ ENDWALL OF MODTECH PORTABLE #02-106169. SEE KEYNOTE 15 F2.01
09.25.D	(E) 2 @ 3"x36 3/8" VENT ON SKIRT @ ENDWALL OF AMS PORTABLE #68145. SEE VENT DETAIL 3/2.
09.29.A	(E) 5/8" A.P.A. PLYWOOD 303 SIDING. SEE AMS B/2
09.29.B	(E) PLYWOOD SIDING. SEE MODTECH A8.0.
10.14.A	(E) MODULAR IDENTIFICATION TAG
21.13.D	(E) FIRE ALARM HORN.
23.37.H	(E) WALL MOUNTED HVAC UNIT
26.56.A	(E) EXTERIOR LIGHT FIXTURE

EXTERIOR ELEVATION GENERAL NOTES

1. REPAIR DAMAGED AREAS, TOUCH UP PAINT AS REQUIRED TO COVER ALL REPAIRED DAMAGE, SCRATCHES, AND SCRAPES CAUSED BY THE RELOCATION PROCESS. MATCH EXISTING COLORS UNLESS DIRECTED TO USE NEW COLORS.

AGENCY APPROVAL DSA# 02-121945
29-50

IDENTIFICATION STAMP
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SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

196 ARCHITECTS
1715 R STREET, SUITE 200
SACRMENTO, CA 95811
TEL (916) 786-8178

CONSULTANTS

CIVIL ENGINEER
Warren Consulting Engineers, Inc
1117 Windfield Way, Suite 110
El Dorado Hills, CA 95762
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ELECTRICAL ENGINEER
The Engineering Enterprise
1125 High Street
Auburn, CA 95603
TEL (530) 886-8556

PROFESSIONAL STAMP

LICENSED ARCHITECT
MARIA ALVAREZ MARCA
C-36107
REN. 01-31-25
STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION
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LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
EXTERIOR ELEVATIONS

DRAWN BY: CV, BI JOB NUMBER: 23219

SHEET NO.
A-301
DATE: DECEMBER 12, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 12/12/2023 11:05:42 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK8V.rvt

SYMBOLS LIST

SOME OF THESE SYMBOLS SHOWN MAY NOT BE USED ON THIS PROJECT

POWER DISTRIBUTION

- SWITCHGEAR, SWITCHBOARD, DISTRIBUTION BOARD, SUBSTATION OR MOTOR CONTROL CENTER, FLOOR MOUNTED ON CONCRETE HOUSEKEEPING PAD WHERE INDICATED ON DRAWINGS. DOUBLE LINE INDICATES FRONT FACE OF GEAR.
- DISTRIBUTION BOARD, SURFACE MOUNTED ON WALL.
- PANELBOARD, 277/480V, SURFACE MOUNTED ON WALL.
- PANELBOARD, 277/480V, FLUSH MOUNTED IN WALL.
- PANELBOARD, 120/208V, SURFACE MOUNTED ON WALL.
- PANELBOARD, 120/208V, FLUSH MOUNTED IN WALL.
- DRY-TYPE STEP-DOWN TRANSFORMER, FLOOR MOUNTED 480-120/208V 3Ø, UON. DOUBLE LINE INDICATES FRONT FACE OF TRANSFORMER.
- ELECTRIC MOTOR, NIEC. MAKE POWER CONNECTIONS ONLY AS NOTED ON PLANS.
- (F) MOTOR OPERATED FIRE/SMOKE DAMPER 'FSD', NIEC. SYMBOL DENOTES INTERFACE FOR POWER CONNECTIONS WITH LOCAL DISCONNECT MEANS. ADJACENT NUMBER INDICATES QUANTITY OF ACTUATORS PER FSD, EACH REQUIRING A POWER CONNECTION. IF MORE THAN 1. FOR FIRE ALARM REQUIREMENTS AT FSD, REFER TO FIRE ALARM SYMBOLS.
- P PULLBOX OR HANDHOLE, SIZE AND TYPE AS NOTED ON PLANS.
- A AF SAFETY DISCONNECT SWITCH, 3 POLE, UON. ADJACENT NUMBER INDICATES FUSE SIZE WHEN APPLICABLE. LABELING CONVENTION AS FOLLOWS:

A: 30A, NON-FUSED	AF: 30A, FUSED
B: 60A, NON-FUSED	BF: 60A, FUSED
C: 100A, NON-FUSED	CF: 100A, FUSED
D: 200A, NON-FUSED	DF: 200A, FUSED
E: 400A, NON-FUSED	EF: 400A, FUSED
F: 600A, NON-FUSED	FF: 600A, FUSED
G: 800A, NON-FUSED	GF: 800A, FUSED

- DRIVEN GROUND ROD.
- DRIVEN GROUND ROD IN GROUND WELL WITH COVER.
- GROUP MOUNTED MOLDED CASE CIRCUIT BREAKER.
- TRANSFORMER.
- CONNECTION TO GROUND.
- CONCRETE VAULT, IN-GRADE, FOR EXTERIOR APPLICATIONS. SIZE AND TYPE AS NOTED ON THE PLANS.
- CONCRETE MANHOLE, IN-GRADE, FOR EXTERIOR APPLICATIONS. SIZE AND TYPE AS NOTED ON THE PLANS.

LINESTYLES

- EXISTING TO REMAIN
- EXISTING TO BE REMOVED (R) OR RELOCATED (RR)
- NEW CONSTRUCTION
- FUTURE CONSTRUCTION

WIRING DEVICES

- JUNCTION BOX, WALL MOUNTED, +18" UON.
- JUNCTION BOX, MOUNTED IN FLUSH FLOOR BOX.
- J JUNCTION BOX, MOUNTED FLUSH IN CEILING.
- JUNCTION BOX, SURFACE OR PENDANT MOUNTED TO BOTTOM OF STRUCTURE IN ACCESSIBLE CEILING SPACE OR EXPOSED IN OPEN CEILING AREAS.
- JUNCTION BOX, MOUNTED ON CONDUIT STANCHION FLOOR PENETRATION, +12" UON.
- SINGLE-PLEX CONVENIENCE RECEPTACLE DEVICE, WALL MOUNTED, +18" UON.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, WALL MOUNTED, +18" UON. LETTERING ADJACENT TO THE DEVICE ON THE PLANS INDICATE THE FOLLOWING FOR THOSE RECEPTACLES.
  - A: ARC FAULT CURRENT INTERRUPTER (AFCI)
  - G: GROUND FAULT CURRENT INTERRUPTER (GFCI)
  - IG: ISOLATED GROUND
  - TR: TAMPER RESISTANT
  - U: INTEGRAL USB PORTS
  - WP: WEATHER-RESISTANT, GROUND FAULT CURRENT INTERRUPTER (GFCI) WITH WEATHERPROOF "IN USE" COVER
- DOUBLE DUPLEX CONVENIENCE RECEPTACLE DEVICE, WALL MOUNTED, +18" UON.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, WALL MOUNTED OVER COUNTER, 6" ABOVE BACK SPLASH UON, BUT NO HIGHER THAN ADA REQUIREMENTS.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, SPLIT-WIRED, WALL MOUNTED, +18" UON.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, ON BACK-UP POWER SYSTEM, WALL MOUNTED, +18" UON.
- DUPLEX, OR DOUBLE DUPLEX, CONVENIENCE RECEPTACLE DEVICE, CONTROLLED PER T24, WALL MOUNTED, +18" UON.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, HORIZONTALLY WALL MOUNTED, +18" UON.
- SPECIALTY OUTLET DEVICE, NEMA CONFIGURATION TYPE AS NOTED ON PLANS, WALL MOUNTED, +18" UON.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED IN FLUSH FLOOR BOX.
- DOUBLE DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED IN FLUSH FLOOR BOX.
- COMBINATION POWER/TELECOMMUNICATION DEVICE, MOUNTED IN FLUSH FLOOR BOX. TYPE AS NOTED ON PLANS OR IN SPECIFICATIONS.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED IN FIRE-RATED POKE-THRU FLOOR FITTING.
- DOUBLE DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED IN FIRE-RATED POKE-THRU FLOOR FITTING.
- COMBINATION POWER/TELECOMMUNICATION DEVICE, MOUNTED IN FIRE-RATED POKE-THRU FLOOR FITTING. TYPE AS NOTED ON PLANS OR IN SPECIFICATIONS.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED FLUSH IN CEILING.
- DOUBLE DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED FLUSH IN CEILING.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, MOUNTED ON CONDUIT STANCHION FLOOR PENETRATION, +12" UON.
- DUPLEX CONVENIENCE RECEPTACLE DEVICE, CORD OR REEL HUNG FROM STRUCTURE ABOVE. TYPE AS NOTED ON PLANS.

CONVENTIONS

- (1) NUMBERED NOTE, APPLIES TO ALL DRAWINGS.
- 1 NUMBERED SHEET NOTE, APPLIES TO DRAWING CONTAINING NOTES ONLY.
- (1) OVERCURRENT PROTECTIVE DEVICE NUMBER IDENTIFICATION TAG. REFERS TO LOCATION OF PROTECTIVE OR CONTROL DEVICE WITHIN SWITCHBOARDS, DISTRIBUTION BOARDS, MOTOR CONTROL CENTERS, ETC.
- EQ / ## EQUIPMENT IDENTIFICATION TAG: ITEM FURNISHED AND INSTALLED UNDER ANOTHER DIVISION AND WIRED UNDER THIS DIVISION.
- 2004 FEEDER TAG. REFER TO FEEDER SCHEDULE.
- 1 / E-801 DETAIL REFERENCE:
  - DETAIL DESIGNATION
  - SHEET NUMBER
- 2 - F3 LUMINAIRE IDENTIFICATION TAG:
  - FIXTURE TYPE
  - QUANTITY

FIRE ALARM

- C SMOKE DETECTOR INITIATING DEVICE, CEILING MOUNTED IN FLUSH OR SURFACE JUNCTION BOX. "C" DENOTES MULTI-CRITERIA CARBON MONOXIDE AND SMOKE DETECTOR.
- SMOKE DETECTOR INITIATING DEVICE, WALL MOUNTED IN FLUSH JUNCTION BOX, MAXIMUM 6" BELOW CEILING.
- HEAT DETECTOR INITIATING DEVICE, CEILING MOUNTED IN FLUSH OR SURFACE JUNCTION BOX.
- HEAT DETECTOR INITIATING DEVICE, WALL MOUNTED IN FLUSH JUNCTION BOX, MAXIMUM 6" BELOW CEILING.
- HEAT DETECTOR INITIATING DEVICE, MOUNTED TO STRUCTURE ABOVE SUSPENDED CEILING IN SURFACE JUNCTION BOX.
- F MANUAL PULL STATION INITIATING DEVICE, WALL MOUNTED AT +48" UON.
- SM REMOTE MOUNTED SINGLE INPUT, ADDRESSABLE, MONITORING MODULE FOR INITIATING CIRCUIT CONNECTION.
- DM REMOTE MOUNTED DUAL INPUT, ADDRESSABLE, MONITORING MODULE FOR INITIATING CIRCUIT CONNECTION.
- CR REMOTE MOUNTED PROGRAMMABLE CONTROL RELAY MODULE FOR ADDRESSABLE CONTROL.
- EOL END-OF-LINE RESISTOR.
- CT CURRENT TRANSFORMER FOR MONITORING AVAILABLE POWER.
- FRAP FIREMANS REMOTE ANNUNCIATOR PANEL FRAP, FLUSH WALL MOUNTED, +42" UON.
- AUDIBLE NOTIFICATION APPLIANCE, WALL MOUNTED, 6" BELOW CEILING OR +80" AFF, WHICHEVER IS LOWER.
- VISIBLE NOTIFICATION APPLIANCE, WALL MOUNTED, 6" BELOW CEILING OR +80" AFF, WHICHEVER IS LOWER. NUMBER ASSOCIATED WITH 'cd' REPRESENTS CANDELA RATING OF STROBE.
- AUDIBLE/VISIBLE NOTIFICATION APPLIANCE, WALL MOUNTED, 6" BELOW CEILING OR +80" AFF, WHICHEVER IS LOWER. NUMBER ASSOCIATED WITH 'cd' REPRESENTS CANDELA RATING OF STROBE.
- AUDIBLE NOTIFICATION APPLIANCE, CEILING MOUNTED IN FLUSH BACK BOX.
- VISIBLE NOTIFICATION APPLIANCE, CEILING MOUNTED IN FLUSH BACK BOX. NUMBER ASSOCIATED WITH 'cd' REPRESENTS CANDELA RATING OF STROBE.
- AUDIBLE/VISIBLE NOTIFICATION APPLIANCE, CEILING MOUNTED IN FLUSH BACK BOX. NUMBER ASSOCIATED WITH 'cd' REPRESENTS CANDELA RATING OF STROBE.
- (D) 2 MOTOR OPERATED FIRE/SMOKE DAMPER "FSD", NIEC. SYMBOL DENOTES FIRE ALARM INTERFACE WITH PROGRAMMABLE CONTROL RELAY FOR FSD CONTROL AND DUAL INPUT ADDRESSABLE MONITORING MODULE FOR POSITION MONITORING VIA END SWITCHES.

TELECOMMUNICATIONS

- TELECOMMUNICATION DEVICE, WALL MOUNTED, +18" UON.
- TELECOMMUNICATION DEVICE, WALL MOUNTED, 6" ABOVE BACK SPLASH UON, BUT NO HIGHER THAN ADA REQUIREMENTS.
- W TELEPHONE DEVICE, WALL MOUNTED, +42" UON.
- TELECOMMUNICATION DEVICE, CEILING MOUNTED.
- COMBINATION POWER/TELECOMMUNICATION DEVICES, MOUNTED IN FLUSH FLOOR BOX. TYPE AS NOTED ON PLANS OR IN SPECIFICATIONS.
- COMBINATION POWER/TELECOMMUNICATION DEVICES, MOUNTED IN FIRE-RATED POKE-THRU FLOOR FITTINGS. TYPE AS NOTED ON PLANS OR IN SPECIFICATIONS.
- WAP WIRELESS ACCESS POINT, WALL MOUNTED, 8" BELOW FINISHED CEILING, UON.
- WAP WIRELESS ACCESS POINT, CEILING MOUNTED.
- #D/#V QUANTITY OF DATA AND/OR VOICE TELECOMMUNICATIONS DEVICES.

AUDIO/VISUAL

- PA LOUDSPEAKER, WALL MOUNTED, 12" BELOW CEILING OR +96" AFF, WHICHEVER IS LOWER. 25V, 70V, 100V, OR IP AS INDICATED ON DRAWINGS AND SPECS.
- PA LOUDSPEAKER, CEILING MOUNTED IN FLUSH BACK BOX. 25V, 70V, 100V OR IP AS INDICATED ON DRAWINGS AND SPECS.
- SP AV PROGRAM SPEAKER, WALL MOUNTED.
- SP AV PROGRAM SPEAKER, CEILING OR STRUCTURE MOUNTED.
- AV AUDIO AND VIDEO INTERFACE PLATE, WALL MOUNTED, +18" UON OR AS OTHERWISE NOTED.
- AV AUDIO AND VIDEO INTERFACE PLATE, MOUNTED IN FLUSH FLOOR BOX.
- AV AUDIO AND VIDEO CABLE DISPLAY PLATE, WALL MOUNTED, 4 11/16" BOX WITH 1 1/4" CONDUIT TO ACCESSIBLE CEILING. HEIGHT AS NOTED.
- AV AUDIO AND VIDEO CABLE AT PROJECTOR THROUGH SUPPORT, DIRECT CONNECT TO PROJECTOR.
- PR PROJECTOR WITH PROJECTOR MOUNT, 1.5"-2" NPT COLUMN AND CEILING SUPPORT HARDWARE.
- PROJECTION SCREEN, SIZE AND TYPE AS NOTED.
- PS PROJECTION SCREEN 3 WAY POWER SWITCH, WALL MOUNTED, +42" UON.
- INDICATING CLOCK WITH CLOCK OUTLET, WALL MOUNTED, 12" BELOW CEILING OR + 96" AFF, WHICHEVER IS LOWER.
- COMBINATION LOUDSPEAKER/INDICATING CLOCK WITH CLOCK OUTLET, WALL MOUNTED IN COMBINATION BACK BOX, 12" BELOW CEILING OR +96" AFF, WHICHEVER IS LOWER.

SECURITY

- A ALARM MONITORING CONTACT, MOUNTED AS NOTED ON PLANS.
- M AREA MOTION SENSOR, CEILING MOUNTED, UON.
- M AREA MOTION SENSOR, WALL MOUNTED, +84" UON.
- GB GLASS BREAK DETECTOR, CEILING MOUNTED, UON.
- CR CARD READER CONTROLLER, WALL MOUNTED, +36" UON.
- K KEY PAD CONTROLLER, WALL MOUNTED, +42" UON.
- 90, 180, 270, 360 DEGREE CCTV CAMERA, CEILING OR PENDANT MOUNTED AS NOTED ON PLANS.
- 90, 180, 270 DEGREE CCTV CAMERA, WALL MOUNTED.

RACEWAYS

- CONDUIT RUN EXPOSED ON WALL OR CEILING.
- CONDUIT RUN CONCEALED IN SLAB, UNDER SLAB OR UNDERGROUND.
- CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING.
- CONDUIT HOMERUN, CONTINUOUS RUN TO PANEL OR EQUIPMENT CABINET. HOMERUN CAN OCCUR ON ANY OF THE ABOVE ROUTING CONDITIONS.
- CONDUIT TURNED UP, CAN OCCUR ON ANY OF THE ABOVE ROUTING CONDITIONS.
- CONDUIT TURNED DOWN, CAN OCCUR ON ANY OF THE ABOVE ROUTING CONDITIONS.
- CONDUIT CAPPED OR STUBBED WITH INSULATED BUSHINGS, CAN OCCUR ON ANY OF THE ABOVE ROUTING CONDITIONS.
- CONDUIT SLEEVE, WITH INSULATING BUSHINGS.
- FLEXIBLE METALLIC CONDUIT, EQUIPMENT CONNECTION.
- CROSSMARKS ON BRANCH CIRCUIT CONDUIT RUNS INDICATE THE QUANTITY OF CONDUCTORS AS FOLLOWS (GROUND CONDUCTORS ARE NOT NOTED, BUT SHOULD BE INCLUDED IN EVERY CONDUIT WITH POWER CONDUCTORS):
  1. NO CROSSMARKS INDICATES TWO #12 AWG CONDUCTORS, UON.
  2. THREE TO SIX CROSSMARKS INDICATES THE QUANTITY OF #12 AWG CONDUCTORS, UON.
  3. SEVEN OR MORE CROSSMARKS INDICATES THE QUANTITY OF #10 AWG CONDUCTORS, UON.
- SURFACE RACEWAY; TYPE, DEVICE SPACING AND MOUNTING AS NOTED ON PLANS.
- CABLE TRAYS/RUNWAYS, REFER TO PLANS AND/OR SPECS FOR SIZE AND MOUNTING.

ABBREVIATIONS

A	AMPERES	KO	CONDUIT KNOCKOUT
AFI	ARC FAULT CIRCUIT INTERRUPTER	LCP	LIGHTING CONTROL PANEL
AF	AMPERE OVERCURRENT FRAME SIZE (WHEN APPLIED TO CIRCUIT BREAKERS) OR AMPERE FUSE SIZE (WHEN APPLIED TO FUSES)	MBGB	MAIN BUILDING GROUND BUS
		MCB	MAIN CIRCUIT BREAKER
		MCC	MOTOR CONTROL CENTER
AFF	ABOVE FINISHED FLOOR	MDF	MAIN DISTRIBUTION FRAME
AIC	ASYMMETRIC INTERRUPTING CURRENT	MLO	MAIN LUGS ONLY
AL	ALUMINUM	MTC	EMPTY CONDUIT
AT	AMPERE OVERCURRENT TRIP (WHEN APPLIED TO CIRCUIT BREAKERS)	MTS	MANUAL TRANSFER SWITCH
AV	AUDIO / VIDEO	(N)	NEW
ATS	AUTOMATIC TRANSFER SWITCH	NC	NORMALLY CLOSED
BAS	BUILDING AUTOMATION SYSTEM	NF	NON-FUSED
BPS	BOLTED PRESSURE CONTACT SWITCH	NIEC	NOT IN ELECTRICAL CONTRACT
C	CONDUIT	NL	NIGHT LIGHT, UNSWITCHED
CCTV	CLOSED CIRCUIT TELEVISION	NO	NORMALLY OPEN
CEC	CALIFORNIA ELECTRICAL CODE	NTS	NOT TO SCALE
CL	CURRENT LIMITING CIRCUIT BREAKER OR FUSE	OC	ON CENTER
		OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CP	CIRCULATION PUMP		
CT	CURRENT TRANSFORMER	PA	PUBLIC ADDRESS
CU	COPPER	PDZ	PRIMARY DAYLIGHT ZONE
DF	DRINKING FOUNTAIN	PNL	PANEL
(E)	EXISTING TO REMAIN	PQM	POWER QUALITY METER
EC	ELECTRICAL CONTRACTOR	PT	POTENTIAL TRANSFORMER
EF	EXHAUST FAN	PVC	POLYVINYL CHLORIDE
EP	EXPLOSION PROOF	(R)	EXISTING TO BE REMOVED
EPO	EMERGENCY POWER OFF	(RR)	REMOVE AND RELOCATE
EMT	ELECTRICAL METALLIC TUBING	SAD	SEE ARCHITECTURAL DRAWINGS
EWH	ELECTRIC WATER HEATER	TC	TIME CLOCK
F	FUSED	TP	TWISTED-PAIR
(F)	FUTURE	SDZ	SECONDARY DAYLIGHT ZONE
FACP	FIRE ALARM CONTROL PANEL	SPD	SURGE PROTECTION DEVICE
FFCP	FIREMAN'S FAN CONTROL PANEL	TX	TRANSFORMER
FLA	FULL LOAD AMPERES	TYP	TYPICAL
FMC	FLEXIBLE METAL CONDUIT	UON	UNLESS OTHERWISE NOTED
FSD	FIRE/SMOKE DAMPER	UPS	UNINTERRUPTIBLE POWER SUPPLY
FRAP	FIREMAN'S REMOTE ANNUNCIATOR PANEL	V	VOLTS
		VA	VOLTS-AMPS
G	GROUND	VFD	VARIABLE FREQUENCY DRIVE
GB	GROUND BUS	VM	VENDING MACHINE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	WAP	WIRELESS ACCESS POINT
GND	GROUND	WP	WEATHERPROOF
GRAP	GENERATOR REMOTE ANNUNCIATOR PANEL	2SP	TWO SPEED
		1Ø	1-PHASE
GRC	GALVANIZED RIGID CONDUIT	3Ø	3-PHASE
HNC	HOME NETWORK CABINET	1P	1-POLE
HPC	HIGH PRESSURE CONTACT SWITCH	2P	2-POLE
IDF	INTERMEDIATE DISTRIBUTION FRAME	3P	3-POLE
IG	ISOLATED GROUND	3W	3-WIRE
INV	INVERTER	4W	4-WIRE
IMC	INTERMEDIATE METAL CONDUIT		

ELECTRICAL SHEET INDEX

SHEET NO.	SHEET NAME	2023-10-20 50% CD	DESIGN DEVELOPMENT	CONSTRUCTION DOCUMENTS	DSA SUBMITTAL
E0.1	SYMBOLS & SHEET INDEX	•			
E0.2	POWER ONE-LINE DIAGRAM, RISERS & SCHEDULES	•			
E1.1	OVERALL ELECTRICAL SITE PLAN	•			
E2.1	POWER & SIGNAL PLAN	•			
E3.1	FIRE ALARM DETAILS, SCHEDULES & NOTES	•			
E3.2	FIRE ALARM RISER DIAGRAM & CALCULATIONS	•			
E4.1	ELECTRICAL DETAILS	•			

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

196 ARCHITECTS
1715 R STREET, SUITE 200
SACRMENTO, CA 95811
TEL TEL (916) 786-8178

CONSULTANTS

The Engineering Enterprise
CONSULTING ENGINEERS
ALAMEDA | AUBURN | LOS ANGELES
NEOSHO | SAN DIEGO | SANTA BARBARA
https://www.engent.com

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
#E015451
Exp. 06/30/24
SCOTT WHEELER
ELECTRICAL
STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION
-		
-		

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE

LODI UNIFIED SCHOOL DISTRICT

1305 E. Vine St
Lodi, CA 95240

233 N Mills Ave
Lodi, CA 95242

SHEET TITLE

SYMBOLS & SHEET INDEX

DRAWN BY: Author JOB NUMBER: 23219

SHEET NO.

E0.1

DATE: DECEMBER 12, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 12/12/2023 11:16:40 AM FILE LOCATION: C:\Users\morgan.sheehy\Documents\23219_LUSD_Millswood Middle School Portables Relocation_E22_Morgan.Sheehy.rvt

FEEDER SCHEDULE

FEEDER SCHEDULE GENERAL NOTES

1. COPPER FEEDER SIZES SHOWN IN THIS SCHEDULE ARE BASED ON CONDUCTORS WITH THHN/THWN-2 INSULATION IN EMT CONDUIT.
2. ALUMINUM FEEDER SIZES SHOWN IN THIS SCHEDULE ARE BASED ON CONDUCTORS WITH XHHW-2 INSULATION IN EMT CONDUIT.
3. FEEDER SIZES SHOWN IN THIS SCHEDULE ARE BASED ON AN AMBIENT TEMPERATURE OF 30 DEGREES C (86 DEGREES F).
4. FEEDERS CONSISTING OF MULTIPLE SETS OF CONDUCTORS AND CONDUITS ARE TO BE PROVIDED WITH THE INDICATED SIZE GROUND CONDUCTOR IN EACH CONDUIT.
5. PER CEC ARTICLE 110.14, ALL FEEDERS SIZED AT #2 AWG OR LESS ARE CALCULATED PER 60 DEGREE TABLE. FEEDERS GREATER THAN #2 AWG ARE RATED 75 DEGREE.

FEEDER SCHEDULE REMARKS

A. OVERSIZED 150% NEUTRAL, SUITABLE FOR SERVICE FROM K-13 RATED TRANSFORMERS.
B. FEEDER APPROVED FOR USE WITH SEPARATELY DERIVED SYSTEM; GROUNDING AS REQUIRED BY CEC ARTICLES 240 AND 250.
C. FEEDER GROUND AND BONDING JUMPER SHALL HAVE AN AREA NOT LESS THAN 12.5% OF THE AREA OF THE LARGEST PHASE CONDUCTOR.
D. INCREASE CONDUIT TO THE NEXT LARGER TRADE SIZE WHEN USING SCHEDULE 40 OR 80 PVC CONDUIT.
E. PER CEC SECTION 240.4(B), FOR OVERCURRENT DEVICES RATED 800A OR LESS, THE NEXT HIGHER STANDARD OVERCURRENT DEVICE RATING (ABOVE THE AMPACITY OF THE CONDUCTORS) CAN BE USED. RULE CAN NOT BE APPLIED IF 100% RATED BREAKERS ARE USED.
F. PER CEC 240.21(C), THE PROVISIONS OF 240.4(B) SHALL NOT BE PERMITTED FOR TRANSFORMER SECONDARY CONDUCTORS.

FEEDER TAG	FEEDER DESCRIPTION	CONDUIT	CONDUCTORS		SEPARATELY DERIVED SYSTEM		REMARKS
			PHASE/NEUTRAL	GROUND	GROUNDING ELECTRODE	BONDING JUMPER	
1503	150 AMP, 3 WIRE	1-1.50"	3 #1/0 CU	1 #6 CU	-	-	-

DSA ANCHORAGE SCHEDULE

APPLICABLE CODE: 2022 CBC

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

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

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

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

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

APPLICABLE CODE: 2022 CBC

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.5.6, 13.6.5, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26. THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., HCAI OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

ELECTRICAL DISTRIBUTION SYSTEMS, OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

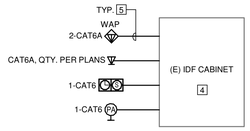
NUMBERED SHEET NOTES

1. PROVIDE NEW CIRCUIT BREAKER IN EXISTING PREPARED SPACE AT EXISTING DISTRIBUTION PANELBOARD. NEW BREAKER TO MATCH MANUFACTURER, TYPE, AIC RATING OF EXISTING BREAKERS. PROVIDE ALL REQUIRED MOUNTING HARDWARE AND FILLER PLATES. PROVIDE ENGRAVED NAMEPLATE.
2. POWER PANEL PROVIDED BY MODULAR BUILDING MANUFACTURER, PROVIDE CONNECTION PER 1/E4.1. REFER TO 5/E4.1 FOR PANELBOARD GROUNDING.
3. ROUTE (6) 1/0 CU AWG (3 PER PORTABLE) WITH (2) #6 CU GROUND WIRE IN EXISTING 2"C TO EXISTING PULLBOX.
4. PROVIDE PANDUIT MINI-COM PATCH PANEL AND PANDUIT DOUBLE-SIDED 2U WIRE MANAGER PER DISTRICT IT STANDARDS FOR NEW HORIZONTAL CABLING.
5. ROUTE NEW STATION HORIZONTAL CABLING PER DISTRICT STANDARDS TO NEW PORTABLE BUILDINGS. USE EXISTING SPARE CONDUIT SLEEVES BETWEEN EXISTING PORTABLE BUILDINGS, AND PROVIDE NEW SLEEVES TO NEW BUILDINGS PER 1/E2.1.

PROJECT GENERAL NOTES

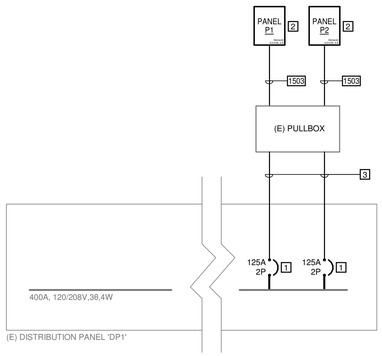
1. ELECTRICAL SCOPE SHALL COMPLY WITH THE LATEST ADOPTED EDITIONS OF THE CALIFORNIA ELECTRIC CODE (CEC), CALIFORNIA BUILDING CODE (CBC), CALIFORNIA FIRE CODE (CFC), CALIFORNIA MECHANICAL CODE (CMC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 72) AND THE CALIFORNIA ENERGY CODE.
2. THE CONTRACTOR SHALL VISIT THE JOBSITE AND VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING THE PROJECT AND SHALL INCLUDE IN THEIR BID THE NECESSARY COSTS TO CONSTRUCT THIS PROJECT IN ACCORDANCE WITH THE ELECTRICAL DRAWINGS, SPECIFICATIONS, AND ALL APPLICABLE CODES.
3. DRAWINGS INDICATE GENERAL ARRANGEMENT OF ELECTRICAL SYSTEMS AND WORK. FOLLOW THE DRAWINGS IN LAYING OUT WORK AND VERIFY EXACT LOCATIONS WITH ARCHITECTURAL FLOOR PLAN AND RCP DRAWINGS. ALSO, CHECK DRAWINGS OF OTHER TRADES TO VERIFY LOCATIONS OF EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AND COORDINATE SPACE CONDITIONS WITH THEIR INSTALLATION. FINAL LOCATIONS SHALL BE ADJUSTED TO MEET FIELD CONDITIONS.
4. NOT EVERY ELECTRICAL RACEWAY, BOX, CONDUCTOR, ETC., FOR A COMPLETE ELECTRICAL INSTALLATION, IS SHOWN ON THESE DRAWINGS. THIS IS DONE FOR CLARITY PURPOSES AND EASE OF INTERPRETING DRAWINGS. PROVIDE ALL ADDITIONAL ITEMS REQUIRED TO MAKE THE ELECTRICAL SYSTEMS COMPLETE AND OPERATIONAL.
5. WORK PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THESE DRAWINGS AND SHALL ALSO COMPLY WITH THE ELECTRICAL SPECIFICATIONS. IN THE EVENT THAT THERE IS A DISCREPANCY BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT OF THE REQUIREMENTS SHALL TAKE PRECEDENT.
6. ALL NEW ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE UNDERWRITER'S LABORATORIES (UL) LISTED OR ELECTRICAL TESTING LABORATORIES (ETL) LISTED AND BEAR THEIR LABELS.
7. ALL ELECTRICAL MATERIALS SHALL BE NEW AND UNUSED, AND OF THE SAME MANUFACTURER OF LIKE EQUIPMENT AND/OR SYSTEMS.
8. CONTRACTOR SHALL REMOVE ALL LEFTOVER CONDUIT, WIRE, SCRAPS, ETC. AND LEAVE PREMISES CLEAN AND FREE OF TRASH AND DEBRIS RESULTING FROM THEIR WORK.
9. PRIOR TO COMMENCING ANY TRENCHING SCOPE ON-SITE, CONTACT THE UTILITIES UNDERGROUND SERVICE ALERT TO DETERMINE THE EXACT LOATIONS OF ANY EXISTING UNDERGROUND UTILITY LINES, WHICH MIGHT GET DAMAGED DURING EXCAVATION. WHERE INTERFERENCE IS POSSIBLE, TRENCHING SHALL BE DONE MANUALLY.
10. MINIMUM CONDUIT TRADE SIZE FOR EXTERIOR APPLICATIONS SHALL BE 1.0", UNLESS OTHERWISE NOTED.
11. ALL UNDERGROUND FEEDER CONDUITS SHALL HAVE A MINIMUM COVER OF 24". WHERE FEEDER CONDUITS ARE INSTALLED UNDER ROADS OR PAVED SURFACE WITH VEHICLE TRAFFIC, THE MINIMUM COVER SHALL INCREASE TO 36". INCLUDE A MINIMUM 12" HORIZONTAL SEPARATION BETWEEN LOW-VOLTAGE AND LINE-VOLTAGE CONDUITS INSTALLED IN SAME TRENCH. INSTALL A WARNING/MARKER TAPE 12" OVER THE CONDUITS.
12. ALL UNDERGROUND CONDUITS ORIGINATING FROM BUILDING EXTERIOR AND TERMINATING IN ELECTRICAL EQUIPMENT WITHIN THE BUILDING INTERIOR SHALL BE SEALED AT BOTH ENDS AFTER CONDUCTORS ARE INSTALLED, TO PREVENT MOISTURE FROM COMING IN CONTACT WITH LIVE PARTS.
13. SITE PULLBOXES FOR BRANCH CIRCUITING SHALL BE SIZED TO CODE MINIMUM REQUIREMENTS. OBTAIN APPROVAL FROM LANDSCAPE ARCHITECT FOR ANY PULLBOXES NEEDED TO FACILITATE SITE CONDUIT REQUIREMENTS.
14. ALL GROUNDING ELECTRODES WITHIN BUILDING OR STRUCTURE SHALL BE BONDED TOGETHER TO FORM A SINGLE GROUNDING ELECTRODE SYSTEM.
15. ALL SEPARATELY DERIVED SYSTEMS SHALL COMPLY WITH CODE, CEC 250.104, FOR BONDING TO METAL WATER PIPING AND STRUCTURAL METAL.
16. FURNISH, INSTALL, AND CONNECT A CODE SIZED INSULATED OR BARE COPPER GROUND CONDUCTOR IN ALL BRANCH CIRCUITS AND FEEDER CONDUITS.
17. WHERE UNGROUNDED CONDUCTORS ARE INCREASED IN SIZE TO ACCOMMODATE VOLTAGE DROP, THE EQUIPMENT GROUND CONDUCTOR SHALL ALSO BE INCREASED IN SIZE PROPORTIONATELY, ACCORDING TO THE CIRCULAR MIL AREA OF UNGROUNDED CONDUCTORS.
18. ALL EQUIPMENT CONNECTED BY PERMANENT WIRING METHODS SHALL BE GROUNDED.
19. BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED TO PREVENT VOLTAGE DROP EXCEEDING 3% AT THE FARTHEST OUTLET OR DEVICE. THE MAXIMUM VOLTAGE DROP ALLOWED ON COMBINED FEEDERS AND BRANCH CIRCUITS SHALL NOT EXCEED 5% TO THE FARTHEST OUTLET OR DEVICE.
20. ALL CONDUCTORS ON THIS PROJECT SHALL BE STRANDED COPPER.
21. MULTIWIRE BRANCH CIRCUITS SHALL BE PROVIDED WITH A MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIDINATES, I.E. HANDLE TIES OR MULTIPOLE CIRCUIT BREAKERS.
22. CONDUIT ROUTING ON DRAWINGS IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR SHALL LAYOUT RUNS TO SUIT FIELD CONDITIONS, LIMITING BENDS AND BOXES, AND SHALL COORDINATE INSTALLATION WITH WORK OF OTHER TRADES.
23. PROVIDE INSULATING BUSHINGS OR INSULATED THROAT CONNECTORS AT BOTH ENDS OF ALL CONDUIT SLEEVES.
24. ALL JUNCTION AND PULL BOXES SHALL BE SIZED PER CODE TO ACCOMMODATE NUMBER OF CONDUITS AND/OR CONDUCTORS ROUTED TO AND FROM BOXES.
25. PROVIDE A PULL WIRE/TAPE IN ALL EMPTY CONDUIT RUNS OVER 15' IN LENGTH.
26. NO PIPING, DUCTWORK, OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE ALLOWED WITHIN THE DEDICATED SPACE ABOVE ELECTRICAL EQUIPMENT.
27. PROVIDE ENGRAVED NAMEPLATES FOR ALL ELECTRICAL PANELBOARDS, SWITCHBOARDS, SWITCHGEAR, TRANSFORMERS, AND DISCONNECT SWITCHES, AS DESCRIBED IN THE SPECIFICATIONS.
28. CONTRACTOR SHALL ENSURE THAT THE ELECTRICAL EQUIPMENT PROVIDED UNDER THEIR CONTRACTOR WILL FIT WITHIN THE SPACES PROVIDED IN THE BID DOCUMENTS, WHETHER PROVIDED BY THE SPECIFIED EQUIPMENT MANUFACTURER OR NOT. NO ADDITIONAL COMPENSATION WILL BE CONSIDERED IF CONTRACTOR NEEDS TO ADJUST EQUIPMENT PACKAGE TO OBTAIN REDUCED DIMENISONS.
29. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING REVISED LAYOUTS OF DISTRIBUTION EQUIPMENT IN SPACES, FOR APPROVAL BY ENGINEER, IF PROPOSED INSTALLATION DIFFERS FROM CONSTRUCTION DOCUMENTS. SUBMISSION MUST BE REVIEWED PRIOR TO RELEASE OF EQUIPMENT AND PRIOR TO INSTALLATION.
30. ALL FLOOR AND/OR FREE-STANDING ELECTRICAL EQUIPMENT SHALL BE MOUNTED ON A 4" HIGH CONCRETE HOUSEKEEPING PAD, U.O.N.
31. ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE WEATHERPROOF (NEMA 3R RATED, MINIMUM) AND LISTED FOR EXTERIOR APPLICATIONS.
32. ALL CIRCUIT BREAKERS SERVING THE FIRE ALARM CONTROL PANEL AND FIRE ALARM SYSTEM COMPONENTS SHALL HAVE LOCKABLE HANDLES AND SHALL BE RED IN COLOR, FOR EASE IN IDENTIFICATION.
33. MOUNTING HEIGHTS OF ALL WIRING DEVICES ARE DIMENSIONED TO THE CENTER OF THE DEVICE, UNLESS OTHERWISE NOTED.
34. PROVIDE GFCI TYPE RECEPTACLES WITH WEATHERPROOF "WHILE-IN-USE" COVERPLATES WITHIN 25' OF ALL EXTERIOR HVAC AND PLUMBING EQUIPMENT.
35. WHERE RECEPTACLES ARE LOCATED OUTSIDE OR IN WET/DAMP LOCATIONS, PROVIDE WEATHERPROOF WHILE-IN-USE COVERPLATES.
36. ALL WIRING DEVICES AND JUNCTION BOX COVERS SHALL HAVE TYPE-ON-TAPE LABELS INDICATING THE PANELBOARD AND CIRCUIT NUMBER(S) SERVING EACH DEVICE.
37. CONTRACTOR SHALL SIZE ALL JUNCTION AND PULL BOXES PER THE MINIMUM CODE REQUIREMENTS OF CEC ARTICLE 314, UNLESS OTHERWISE NOTED ON DRAWINGS.

NOTE: REFER TO DISTRICT IT STANDARDS FOR CABLING REQUIREMENTS, JACK COLORS, ETC.



2 PARTIAL TELECOMMUNICATIONS RISER DIAGRAM

SCALE:NTS



1 PARTIAL POWER ONE-LINE DIAGRAM

SCALE: 12" = 1'-0"

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

196 ARCHITECTS
1715 R STREET, SUITE 200
SACRMENTO, CA 95811
TEL TEL (916) 786-8178

CONSULTANTS

The Engineering Enterprise
CONSULTING ENGINEERS
ALAMEDA | AUBURN | LOS ANGELES
NEOSHO | SAN DIEGO | SANTA BARBARA
https://www.engent.com

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
#E015481
Exp. 06/30/25
SCOTT WHEELER
ELECTRICAL
STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION
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PROJECT OWNER & TITLE

LODI UNIFIED SCHOOL DISTRICT

1305 E. Vine St
Lodi, CA 95240

233 N Mills Ave
Lodi, CA 95242

SHEET TITLE

POWER ONE-LINE DIAGRAM, RISERS & SCHEDULES

DRAWN BY: Author JOB NUMBER: 23219

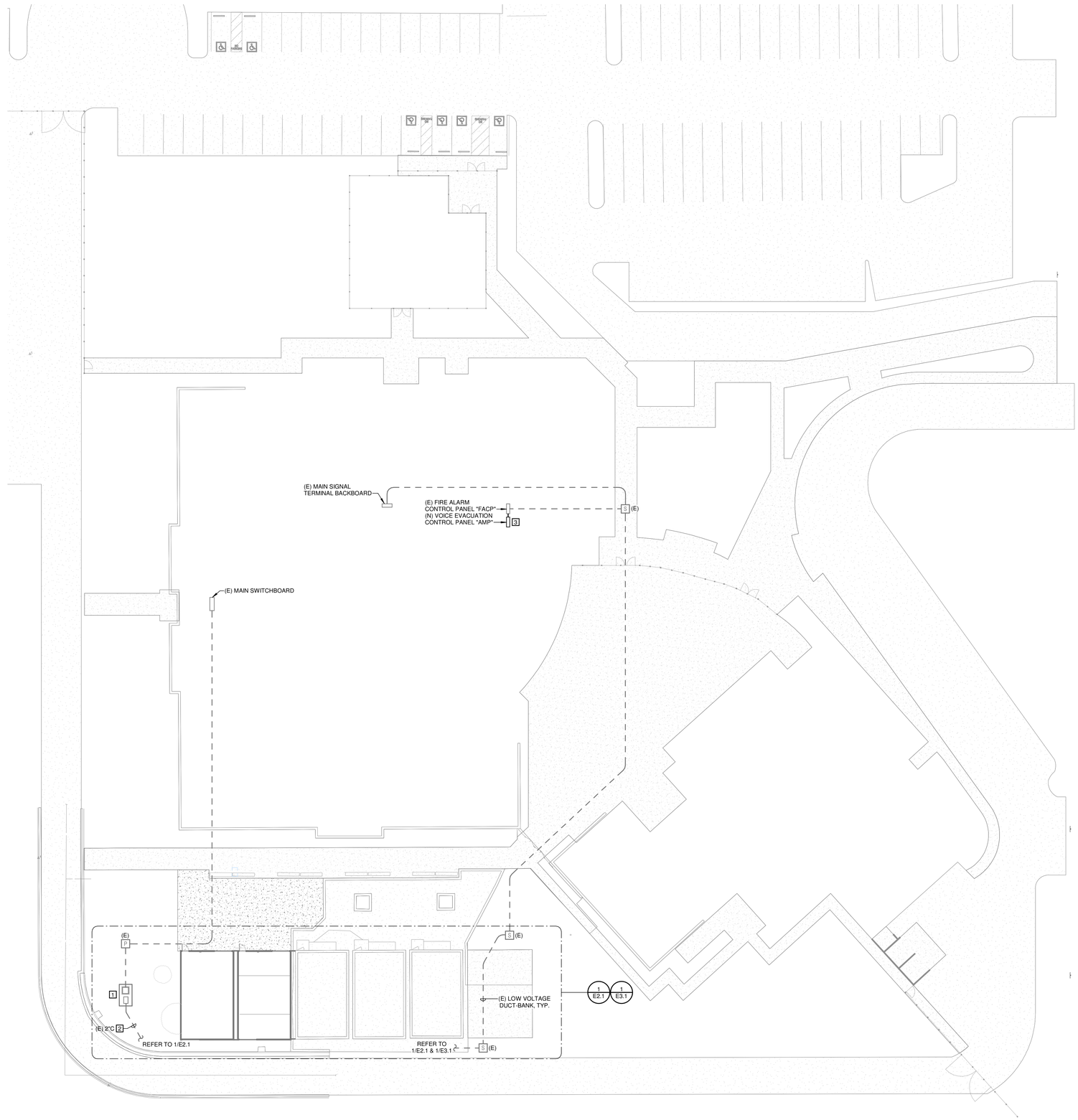
SHEET NO.

E0.2

DATE: DECEMBER 12, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 12/12/2023 11:16:40 AM FILE LOCATION: C:\Users\morgan.sheehy\Documents\23219_LUSD_Millswood Middle School Portables Relocation_E22_Morgan.Sheehy.rvt



1 OVERALL ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"

GENERAL SHEET NOTES

A. CALL U.S.A. PRIOR TO UNDERGROUND WORK, 1-800-227-2600.

B. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF NEW WORK.

C. PROVIDE A 1/2" MULE TAPE IN ALL EMPTY CONDUITS.

D. PROVIDE 6-INCH WIDE UNDERGROUND WARNING TAPE ABOVE ALL NEW UNDERGROUND CONDUITS/CABLES. INSTALL AT 12-INCHES ABOVE THE CONDUITS/CABLES. PROVIDE RED TAPE FOR POWER APPLICATIONS. PROVIDE ORANGE TAPE FOR LOW VOLTAGE APPLICATIONS. PROVIDE BOTH RED AND ORANGE TAPES FOR JOINT TRENCH APPLICATIONS.

NUMBERED SHEET NOTES

1. (E) DISTRIBUTION CENTER "DO1" WITH TOTALLY ENCLOSED NON-VENTILATED 112.5KVA TRANSFORMER "T1" AND DISTRIBUTION PANEL "DP1".
2. POWER FEEDERS, REFER TO POWER ONE-LINE DIAGRAM FOR CONDUIT AND WIRING REQUIREMENTS.
3. MOUNT (N) VOICE EVACUATION CONTROL PANEL "AMP" ADJACENT TO (E) FACP. ROUTE CABLING THROUGH EXISTING SITE PATHWAY TO NEW PORTABLES. PROVIDE 120V CONNECTION TO "AMP" FROM EXISTING DEDICATED 120V CIRCUIT USE FOR EXISTING FACP. CONTRACTOR TO PROVIDE LOCKING HARDWARE AND PAINT CIRCUIT BREAKER TRIP HANDLE RED AS REQUIRED.

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196 ARCHITECTS
1715 R STREET, SUITE 200
SACRMENTO, CA 95811
TEL TEL (916) 786-8178

CONSULTANTS

The Engineering Enterprise
CONSULTING ENGINEERS
ALAMEDA | AUBURN | LOS ANGELES
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https://www.engent.com

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
E6045483
Exp. 06/30/25
SCOTT WHEELER
ELECTRICAL
STATE OF CALIFORNIA

REVISIONS

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PROJECT OWNER & TITLE

LODI UNIFIED SCHOOL DISTRICT

1305 E. Vine St
Lodi, CA 95240

233 N Mills Ave
Lodi, CA 95242

SHEET TITLE

OVERALL ELECTRICAL SITE PLAN

DRAWN BY: Author JOB NUMBER: 23219

SHEET NO.

E1.1

DATE: DECEMBER 12, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 12/12/2023 11:16:41 AM FILE LOCATION: C:\Users\morgan.sheehy\Documents\23219_LUSD_Millswood Middle School Portables Relocation_E22_Morgan.Sheehy.rvt

GENERAL SHEET NOTES

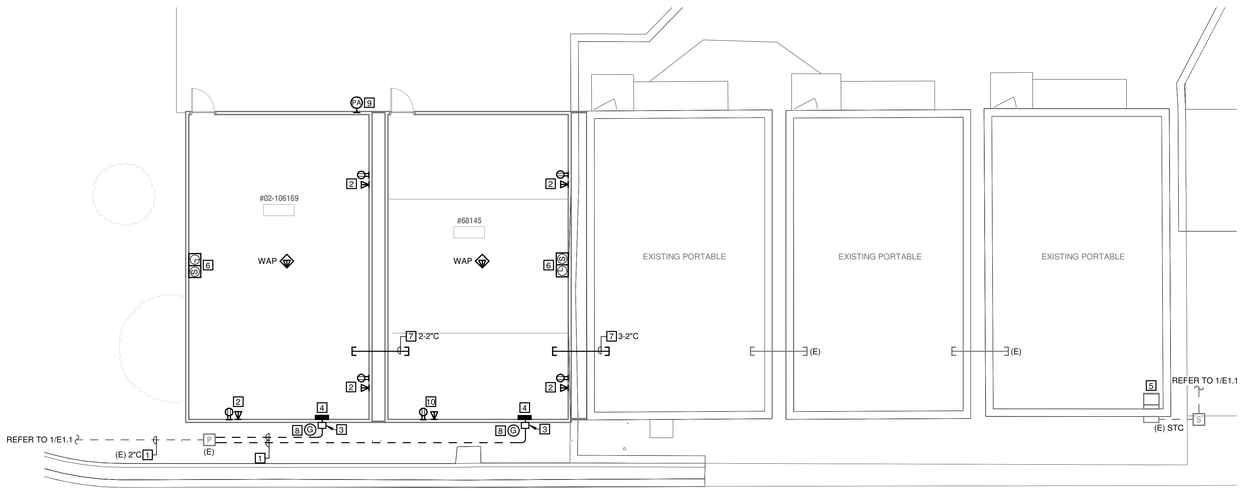
A. EXISTING MODULAR BUILDINGS TO BE RELOCATED FROM ANOTHER CAMPUS, REFER TO ARCHITECTURAL AND CIVIL PLANS. EXISTING PANELBOARD, BRANCH CIRCUIT POWER, LIGHTING AND LIGHTING CONTROL TO REMAIN. EXISTING LOW VOLTAGE EQUIPMENT, CABLING, AND DEVICES TO BE REMOVED, PROVIDE NEW DEVICES AND CABLING PER PLANS.

B. PROVIDE NEW TELECOMMUNICATIONS INFRASTRUCTURE SYSTEM PER DISTRICT STANDARDS AND THE SPECIFICATIONS. COORDINATE WITH THE DISTRICT IT REPRESENTATIVE.

C. INTRUSION ALARM SYSTEM TO BE INSTALLED BY THE OWNER'S CONTRACTED VENDOR, PROVIDE CONDUIT PATHWAY TO THE NEW PORTABLE BUILDINGS AND COORDINATE AS REQUIRED.

NUMBERED SHEET NOTES

1. POWER FEEDERS, REFER TO POWER ONE-LINE DIAGRAM FOR CONDUIT AND WIRING REQUIREMENTS.
2. AT TYPICAL WORKSTATION, PROVIDE PANDUIT T-70 SURFACE RACEWAY WITH DIVIDER TO ACCESSIBLE CEILING. PROVIDE PANDUIT WORKSTATION OUTLET CENTER OFFSET BOX, T70WC2IW. CONNECT POWER RECEPTACLE TO SPARE 20A CIRCUIT AT EXISTING MODULAR BUILDING LOAD CENTER. TELECOM OUTLET WITH 2-BEIGE JACKS AND 1 BLUE JACK (COMPUTER & PHONE).
3. AT MODULAR BUILDING WITH FLUSH ,INTERIOR LOAD CENTER; PROVIDE A N3R PULL CAN AT EXTERIOR OF BUILDING AND NIPPLE INTO LOAD CENTER.
4. POWER PANEL PROVIDED BY MODULAR BUILDING MANUFACTURER, PROVIDE CONNECTION PER 1/E4.1.
5. EXISTING WALL MOUNTED IDF CABINET.
6. PROVIDE CABLING AND INFRASTRUCTURE FOR OWNER FURNISHED CLOCK/PA SPEAKER.
7. SLEEVES BETWEEN BUILDINGS FOR LOW VOLTAGE CABLING REFER TO DETAIL 4/E4.1. FOR INSTALLATION.
8. GROUND ROD IN GROUND WELL, INSTALL PER 3/E4.1 AND BOND TO MODULAR BUILDING PER 5/E4.1.
9. PROVIDE CABLING AND INFRASTRUCTURE FOR OWNER FURNISHED OUTDOOR PA SPEAKER.



1 POWER & SIGNAL PLAN

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

AGENCY APPROVAL

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PROJECT OWNER & TITLE

LODI UNIFIED SCHOOL DISTRICT

1305 E. Vine St
Lodi, CA 95240

233 N Mills Ave
Lodi, CA 95242

SHEET TITLE

POWER & SIGNAL PLAN

DRAWN BY: Author JOB NUMBER: 23219

SHEET NO.

E2.1

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FIRE ALARM SYSTEM MATRIX

	SMOKE DETECTOR	HEAT DETECTOR	OPEN/SHORT CIRCUIT	GROUND FAULT	A/C LOSS	BATTERY TROUBLE	SYSTEM SILENCE	SYSTEM RESET
ALARM AT FACP & REMOTE ANNUNCIATOR(S)	X	X						
SUPERVISORY AT FACP & REMOTE ANNUNCIATOR(S)								
TROUBLE AT FACP & REMOTE ANNUNCIATOR(S)			X	X	X	X		
REPORT EVENT TO OFFSITE SUPERVISING STATION	X	X	X	X	X	X		
ACTIVATE EVACUATION SIGNALS	X	X						
DEACTIVATE VOICE MESSAGES							X	X
DEACTIVATE VISUAL SIGNALS								X
RESET FACP TO NORMAL CONDITION								X

FIRE ALARM SYSTEM COMPONENT SCHEDULE

SYMBOL	EQUIPMENT DESCRIPTION	MODEL NO.	MANUFACTURER	CSFM LISTING
(E) FACP	FIRE ALARM CONTROL PANEL	QS4	EDWARDS	----------
(N) AMP	SPEAKER AMPLIFIER PANEL	EVAX25	POTTER	6912-1446:0100
(E) BPS	NOTIFICATION BOOSTER PANEL	FCPS-24S6	EDWARDS	----------
IM	ISOLATOR MODULE	SIGA-IM	EDWARDS	7300-1657:0121
SM	SINGLE INPUT MONITOR MODULE	SIGA-CT1	EDWARDS	7300-1657:0121
	ADDRESSABLE SMOKE DETECTOR	SIGA-PS	EDWARDS	7272-1657:0331
AH	CONVENTIONAL HEAT DETECTOR AH = ATTIC HEAT (ie. ABOVE CEILING)	5604	SYSTEM SENSOR	7270-1653:0167
cd 15/30/75/110	CEILING MOUNTED SPEAKER/STROBE	SPSCRL	SYSTEM SENSOR	7320-1653:0505
WP	WEATHERPROOF WALL MOUNTED SPEAKER	SPRK	SYSTEM SENSOR	7320-1653:0201

NOTE: CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF COMPONENTS SHOWN ON THE FLOOR PLANS. REFER TO SPECIFICATION FOR SPARE DEVICE QUANTITY REQUIREMENTS

FIRE ALARM SYSTEM CABLE SCHEDULE

CABLE TAG	CIRCUIT DESCRIPTION	CABLE TYPE	GAUGE	CONDUCTORS	COLOR
A	SIGNAL LINE CIRCUIT (SLC)	FPL	#18	2	RED JACKET
B	NOTIFICATION APPLIANCE CIRCUIT (NAC)	FPL	#12	2	RED JACKET
C	CONVENTIONAL SUPERVISED CIRCUIT / 24VDC	FPL	#14	2	RED JACKET
F	UNDERGROUND SLC	WATER TIGHT	#14	2	BLACK JACKET
G	UNDERGROUND NAC	WATER TIGHT	#12	2	BLACK JACKET
H	UNDERGROUND SPEAKER CIRCUIT	WATER TIGHT SHIELDED	#14	2	BLACK JACKET
S	SPEAKER CIRCUIT	FPL OVERALL SHIELDED	#14	2	RED JACKET

FIRE ALARM NOTES

1. WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS,INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

   STATE CALIFORNIA CODE OF REGULATIONS (CCR) 2022 TITLE 24 CALIFORNIA BUILDING CODE

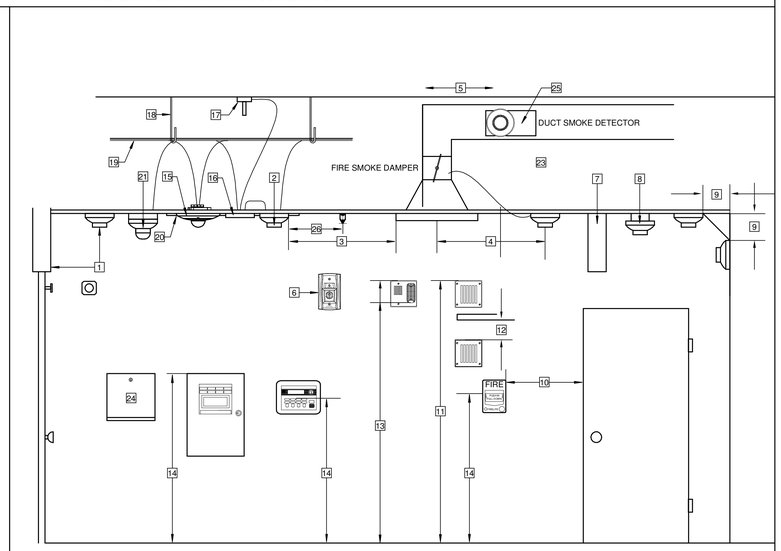
   PART 2, 2022 CALIFORNIA BUILDING CODE (CBC)
   PART 3, 2022 CALIFORNIA ELECTRICAL CODE (CEC)
   PART 4, 2022 CALIFORNIA MECHANICAL CODE (CMC)
   PART 5, 2022 CALIFORNIA PLUMBING CODE (CPC)
   PART 9, 2022 CALIFORNIA FIRE CODE (CFC)

   2022 NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 13 &72. 2019 NFPA 80. 2018 NFPA 90A. 2021 NFPA 99 & 101.
2. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTATION AND SPECIFICATION, INCLUDING STATE FIRE MARSHALL LISTING SHEETS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY DSA.
3. UPON COMPLETION OF INSTALLATION OF THE SYSTEMS, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.
4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF RECORD.
6. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/ OR TESTING.
7. ALL PENETRATIONS THROUGH RATED ASSEMBLIES, REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITHIN THE SPECIFICATION WITHIN THE FIRE ALARM SECTION.
8. AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBLES (Dba) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 Dba ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPIED SPACE WITHIN THE BUILDING.
9. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
10. THE CONTRACTOR SHALL ADJUST/INSTALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
11. VISUAL DEVICES SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISUAL DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
12. UNDERGROUND AND EXTERIOR CONDUIT SHALL HAVE WATERTIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
13. ALL FIRE ALARM WIRING SHALL BE FPL (FIRE POWER LIMITED) OR FPLP (FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THHN OR THWN.
14. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.
15. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION OF NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL AREA IS READY TO BE TURNED OVER TO THE OWNER.
16. ALL FIRE ALARM CIRCUITS ARE TO BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE THE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON THE DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
17. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO DEVICE SHALL EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
18. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM A COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXPANDERS.
19. THE INSTALLER CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION PER NFPA 72, FIGURE 10.18.2.1.1.
20. CONTROL PANELS, REMOTE ANNUNCIATORS SHALL BE MOUNTED WITH THE TOP OF THE CONTROL DEVICE OR KEYPAD TO BE A MAXIMUM OF 48".
21. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
22. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
23. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
24. THE FIRE ALARM SYSTEM SHALL CONFORM TO 2022 CALIFORNIA ELECTRICAL CODE (CEC) ARTICLE 760 AND 2022 CALIFORNIA FIRE CODE (CFC) SECTION 907.
25. BEFORE REQUESTING FINAL APPROVAL OF THE INSTALLATION THE INSTALLING CONTRACTOR SHALL FURNISH A WRITTEN STATEMENT TO THE DSA PROJECT INSPECTOR TO THE EFFECT THAT THE SYSTEM HAS BEEN INSTALLED AND TESTED IN ACCORDANCE WITH THE 2019 NFPA 72 SECTION 14.4.1
26. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE DSA PROJECT INSPECTOR.
27. PROVIDE A RECORD OF COMPLETION PER NFPA 72 CHAPTER 7.5.6.
28. AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AND CBC 907.6.5.2. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUIS BY UL OR SHALL MEET THE REQUIREMENTS OF FM STANDARDS 3011.
29. TEST, INSPECTION AND MAINTENANCE SHALL COMPLY WITH NFPA 72 CHAPTER 14 REQUIREMENTS.
30. EACH BUILDING TO BE A SEPARATE SPEAKER ZONE. (CFC 907.63).

FIRE ALARM DEVICE MOUNTING DETAIL NOTES

#

1. MOUNT DOOR HOLDER SMOKE DETECTOR MAXIMUM 3' FROM DOOR AND A MINIMUM OF 1' FROM DOOR.
2. NFPA 72 17.7.3.2.3.1 ON SMOOTH CEILINGS, SPACING FOR SMOKE DETECTORS SHALL BE IN ACCORDANCE WITH ONE OF THE FOLLOWING REQUIREMENTS:
   1. THE DISTANCE BETWEEN SMOKE DETECTORS SHALL NOT EXCEED SPACING OF 30'.
   2. ALL POINTS ON THE CEILING SHALL HAVE A DETECTOR WITHIN A DISTANCE EQUAL TO OR LESS THAN 21'.
3. NFPA 72 17.7.4.1 MOUNT SMOKE DETECTOR MINIMUM OF 3' AWAY FROM DIFFUSER VENT.
4. MOUNT SMOKE DETECTOR FOR FIRE SMOKE DAMPER (FSD) WITHIN 3' OF SUPPLY VENT.
5. DUCT SMOKE DETECTOR SHALL BE MOUNTED 6 TO 10 TIMES THE DIAMETER OF DUCT FROM BEND OR OBSTRUCTION.
6. NFPA 72 17.4.7 WHERE FIRE DETECTORS ARE INSTALLED IN CONCEALED LOCATIONS MORE THAN 10' AFF OR IN ARRANGMENTS WHERE THE DETECTOR'S ALARM OR SUPERVISORY INDICATOR IS NOT VISIBLE TO RESPONDING PERSONNEL. DETECTORS SHALL BE PROVIDED WITH A REMOTE INDICATOR OR SUPERVISORY INDICATION ACCEPTABLE WITH AUTHORITY HAVING JURISDICTION (AHJ).
7. NFPA 72 17.7.3.2.4.2 BEAM POCKET SPOT DETECTOR ARE REQUIRED FOR BEAMS GREATER THAN 18" BELOW CEILING AND SPACED MORE THAN 8' ON CENTER. EACH BAY FORMED BY BEAM SHALL BE TREATED AS A SEPARATE AREA. BEAMS LESS THAN 12" IN DEPTH AND SPACED LESS THAN 8' ON CENTER SHALL HAVE DETECTORS INSTALLED ON THE BOTTOM OF THE BEAM. OR, CEILINGS WITH BEAM DEPTHS LESS THAN 10 PERCENT OF THE CEILING HEIGHT, SMOOTH CEILING SPACING IS PERMITTED AND DETECTORS PLACED ON THE BOTTOM OF THE BEAM. BEAMS EQUAL TO OR GREATER THAN 10 PERCENT OF CEILING HEIGHT WITH BEAM SPACING GREATER THAN 40 PERCENT OF CEILING HEIGHT, SPOT DETECTORS SHALL BE LOCATED IN EACH CELL.
8. NFPA 72 17.6.3.3.1.1 BEAMS PROJECTING LESS THAN 4" SHALL BE TREATED AS A SMOOTH CEILING.
9. NFPA 72 17.6.3.1.3.1 SMOKE DETECTORS SHALL BE MOUNTED ON THE CEILING MINIMUM 4" FROM WALL, AND 4" MINIMUM TO 12" MAXIMUM FROM CEILING MOUNTED ON WALL.
10. NFPA 72 17.14.5 THE OPERABLE PART OF A MANUALLY ACTUATED ALARM-INITIATING DEVICE SHALL NOT BE LESS THAN 42" AFF AND NOT MORE THAN 48" AFF. NFPA 72 17.14.8.4 MANUAL FIRE ALARM BOXES SHALL BE LOCATED WITHIN 5' OF EACH EXIT DOORWAY ON EACH FLOOR.
11. NFPA 72 18.4.8.1 MOUNT EXTERIOR HORN AT 90" MINIMUM AND 100" MAXIMUM TO THE TOP OF THE DEVICE.
12. NFPA 72 18.5.5.2 WHERE LOW CEILING HEIGHTS DO NOT PERMIT WALL MOUNTING AT A MINIMUM OF 80", WALL MOUNTED VISIBLE APPLIANCES SHALL BE MOUNTED WITHIN 6" OF THE CEILING.
13. NFPA 72 18.5.5.1 INTERIOR WALL MOUNTED APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AFF AND NOT GREATER THAN 96" AFF.
14. CBC 1117B.0 (3) MOUNT FIRE ALARM CONTROL PANELS AND ANNUNCIATORS AT A MAXIMUM OF 48" TO THE TOP OF THE CONTROL PANEL OR KEY BOARDS.
15. CEILING MOUNTED HORN / SPEAKER STROBE
16. MONITOR MODULE
17. RATE OF RISE HEAT DETECTOR, MOUNTED IN ABOVE CEILING / ATTIC SPACE.
18. APPROVED WIRE MANAGEMENT, ie J-HOOK OR D-RING.
19. ABOVE CEILING CIRCUITS ROUTING IN AN ACCESSIBLE ATTIC SPACE.
20. NON-ACCESSIBLE CEILINGS MUST USE EITHER EMT OR APPROVED WIREMOLD RACEWAY, AS SHOWN ON PLANS.
21. MULTI-CRITERIA PHOTOELECTRIC SMOKE / CO DETECTOR WITH SOUNDER BASE. MOUNT IN AREAS WHERE FOSSIL FUEL IS USED.
22. NFPA 72 17.5.3.1.4 DETECTION FOR CONCEALED ACCESSIBLE SPACES ABOVE SUSPENDED CEILING USED AS A RETURN PLENUM SHALL BE PROVIDED AT EACH CONNECTION FROM RETURN AIR PLENUM AT CENTRAL AIR HANDLING UNIT.
23. NFPA 72 7.7.2 WITH EVERY NEW FIRE ALARM SYSTEM A DOCUMENTATION CABINET SHALL BE INSTALLED AT THE FIRE ALARM CONTROL PANEL OR AT ANOTHER LOCATION APPROVED BY AHJ. THE CABINET SHALL BE PROMINENTLY LABELED "SYSTEM RECORD DOCUMENTS".
24. NFPA 90A 6.4.2.1 SMOKE DETECTORS LISTED FOR USE IN AIR DISTRIBUTION SYSTEMS SHALL BE LOCATED AS FOLLOWS: DOWNSTREAM OF THE AIR FILTERS AND AHEAD OF ANY BRANCH CONNECTIONS IN AIR SUPPLY SYSTEMS HAVING A CAPACITY GREATER THAN 2000 CFM.
25. SMOKE DETECTORS SHALL NOT BE CLOSER THAN 1' FROM SPRINKLERS.



FIRE ALARM SYSTEM DESCRIPTION

SCOPE OF THIS PROJECT IS TO EXTEND EXISTING FIRE ALARM SYSTEM TO NEW CLASSROOM BUILDINGS. PROVIDE NEW VOICE EVACUATION, NOTIFICATION APPLIANCES, INITATION DEVICES, WIRING, AND BACK BOXES.

FIRE ALARM SYSTEM: CLASS B
IDC: CLASS B
SLC CIRCUIT: CLASS B
NOTIFICATION CIRCUIT: CLASS B

GENERAL SHEET NOTES

A. FIRE ALARM CIRCUITS AND CIRCUIT ROUTING ARE SHOW SCHEMATICALLY FOR CLARITY ILLUSTRATING THE WIRING CONFIGURATION NECESSARY FOR PROPER SUPERVISION.

B. FIRE ALARM STROBES SHALL BE SYNCHRONIZED PER NFPA 72.

C. ALL OUTDOOR FIRE ALARM EQUIPMENT SHALL BE LISTED FOR EXTERIOR USE.

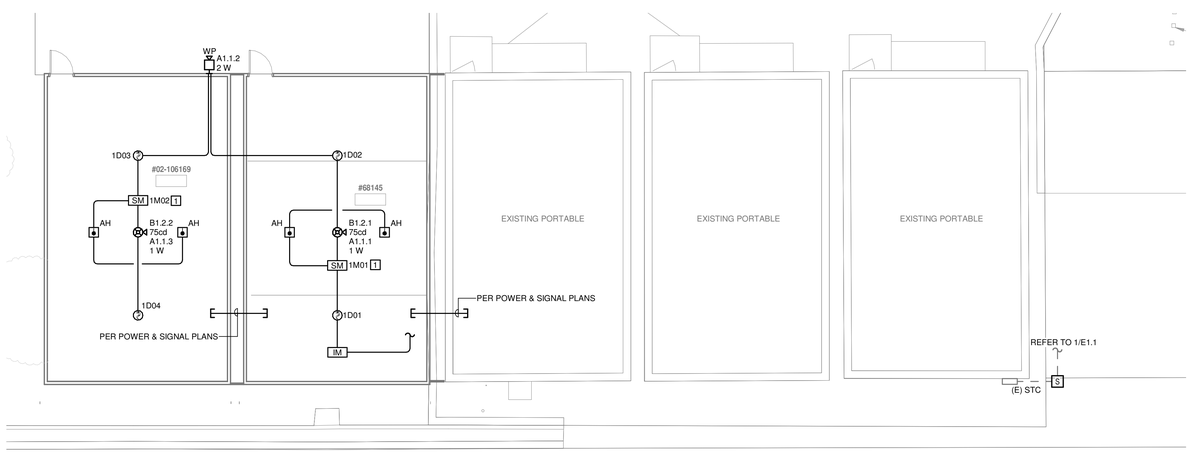
D. DO NOT INSTALL FIRE ALARM DEVICES BACK TO BACK IN STUD WALLS.

E. IN AREAS WHERE DEVICES ARE TO BE CEILING MOUNTED COORDINATE LOCATIONS TO AVOID CONFLICTS WITH EXISTING LIGHT FIXTURES.

F. FIRE ALARM INSTALLATION SHALL COMPLY WITH ALL REQUIREMENTS OF APPLICABLE CODES, STANDARDS AND STATE REGULATIONS.

NUMBERED SHEET NOTES

1. PROVIDE MONITOR MODULE TO SUPERVISE ATTIC HEAT DETECTORS (TYP).



1 FIRE ALARM PLAN

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

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

196 ARCHITECTS
1715 R STREET, SUITE 200
SACRMENTO, CA 95811
TEL TEL (916) 786-8178

CONSULTANTS

The Engineering Enterprise
CONSULTING ENGINEERS
ALAMEDA | AUBURN | LOS ANGELES
NEOSHO | SAN DIEGO | SANTA BARBARA
https://www.engent.com

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
SCOTT WHEELER
ELECTRICAL
STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION
-		
-		

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
FIRE ALARM DETAILS, SCHEDULES & NOTES

DRAWN BY: Author JOB NUMBER: 23219

SHEET NO.
E3.1

DATE: DECEMBER 12, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 12/12/2023 11:16:42 AM FILE LOCATION: C:\Users\morgan.sheehy\Documents\23219_LUSD_Millswood Middle School Portables Relocation_E22_Morgan.Sheehy.rvt

MILLSWOOD AMP A1

Device Type	QTY	Standby Current (amps) Watts		Current Draw		Total	Alarm Current (amps) Qty		Current Draw		Total
1. System											
EVAX 25	1	25	X	0.0860	=	0.0860	0	X	2.2060	=	2.2060
			X		=		0	X		=	0.0000
			X		=		0	X		=	0.0000
2. Speakers											
Total Speaker Watts @ 25Vrms		0							0.0000	=	0.0000
Total Speaker Watts @ 70.7Vrms		4							0.0566	=	0.0566
				Total Standby Load		**0.0860**			**Total Alarm Load**		**2.2626**
				0							

			Required Standby Time in Hours		
Standby Load Current (Amps)	**0.0860 Amps**	X	24	=	2.064 AH
			Required Alarm Time in Hours		
Alarm Load Current (Amps)	**2.2626 Amps**	X	15	=	0.566 AH
			Total Current Load		**2.63 AH**
			*Multiply by the Derating Factor	=	x 0.25
			Total Ampere Hours Required		3.29 AH
			Recommended Batteries:		**7AH BATTERIES**

*Derating Factor required to compensate for the non-linear discharge characteristic of a battery.

(E) FACP CALCULATIONS

Signaling Line Circuit Loading

Qty	Device	DEVICE Standby	DEVICE Alarm	SUBTOTAL Standby	SUBTOTAL Alarm
1	FIRE ALARM CONTROL PANEL	0.081000	0.150000	0.081000	0.150000
5	MONITOR MODULE	0.012000	0.002000	0.060000	0.010000
8	SMOKE DETECTOR	0.000300	0.000080	0.002400	0.000640
1	ISOLATION MODULE	0.000300	0.000080	0.000300	0.000080
			Signaling Line Circuit Load:	0.143700	0.160720

Notification Circuit Loading

DEVICE	CD	DRAW (EA)	NAC1	NAC2	NAC3	NAC4	NAC5	NAC6	TOTAL
SPEAKER STROBE									
SPEAKER STROBE									
SPEAKER STROBE									
SPEAKER STROBE									
STROBE									
STROBE									
STROBE									
STROBE									
SPEAKER									
SOUNDER									
Notification Appliance Circuit Loading:									

Notification Circuit Voltage Drop

CIRCUIT ID	TOTAL A	LENGTH FT.	AWG	%VD	VD
NAC1			12		
NAC2			12		
NAC3			12		
NAC4			12		
NAC5			12		
NAC6			12		

Battery Calculation

	Standby	Alarm
Totals Panel Current:	0.144	0.161
Hours in Standby:	24	
Standby Ah:	3.45	
Minutes in Alarm:		15
Alarm Ah		0.04
Spare/Future Capacity - 20%:		0.70
Minumum Battery Capacity Required - Ah:		7.00

Provide next largest capacity battery

Panel Loading

Panel Capacity (Amps): 6.00
Panel Load (Amps): 0.30

ALL LOADS ARE EXPRESSED IN AMPS

MILLSWOOD PORTABLES BPS-1

Signaling Line Circuit Loading

Qty	Device	DEVICE Standby	DEVICE Alarm	SUBTOTAL Standby	SUBTOTAL Alarm
1	BPS6-A	0.091000	0.145000	0.091000	0.145000
			Panel Load:	0.091000	0.145000

Notification Circuit Loading

DEVICE	CD	DRAW (EA)	B1.1	B1.2	B1.3	B1.4			TOTAL
SPEAKER STROBE	15	0.041							
SPEAKER STROBE	30	0.063							
SPEAKER STROBE	75	0.111	3	2					0.555
HORN		0.041	1						0.041
Notification Appliance Circuit Loading:			0.374	0.222					0.596

Notification Circuit Voltage Drop

CIRCUIT ID	TOTAL A	LENGTH FT.	AWG	%VD	VD
B1.1	0.374	125	12	0.88%	0.18
B1.2	0.222	200	12	0.84%	0.17
B1.3			12		
B1.4			12		
			12		
			12		

Battery Calculation

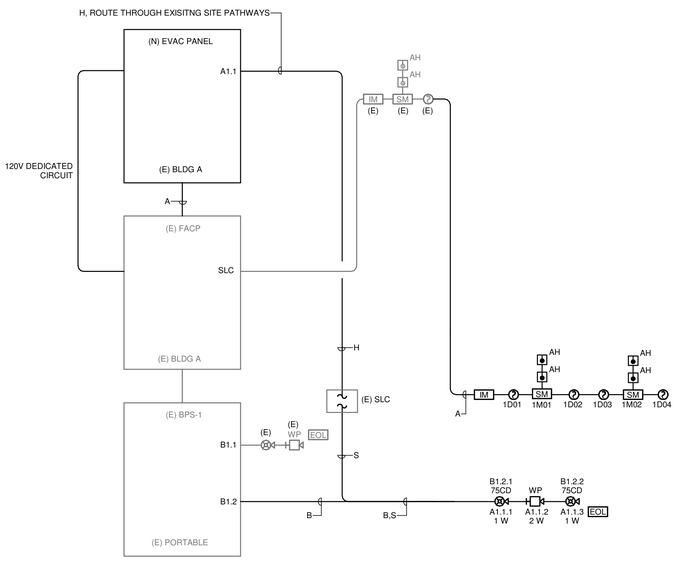
	Standby	Alarm
Totals Panel Current:	0.091	0.741
Hours in Standby:	24	
Standby Ah:	2.18	
Minutes in Alarm:		15
Alarm Ah		0.19
Spare/Future Capacity - 25%:		0.59
Minumum Battery Capacity Required - Ah:		7.00

Provide next largest capacity battery

Panel Loading

Panel Capacity (Amps): 8.00
Panel Load (Amps): 0.83

ALL LOADS ARE EXPRESSED IN AMPS



1 FIRE ALARM RISER DIAGRAM

SCALE:NTS

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

196 ARCHITECTS
1715 R STREET, SUITE 200
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https://www.engent.com

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
E6015481
Exp. 06/30/23
SCOTT WHEELER
ELECTRICAL
STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION
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-		

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PROJECT OWNER & TITLE

LODI UNIFIED SCHOOL DISTRICT

1305 E. Vine St
Lodi, CA 95240

233 N Mills Ave
Lodi, CA 95242

SHEET TITLE

FIRE ALARM RISER DIAGRAM & CALCULATIONS

DRAWN BY: Author JOB NUMBER: 23219

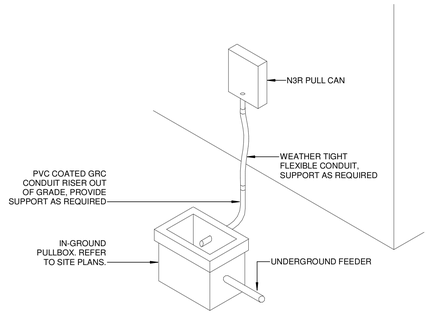
SHEET NO.

E3.2

DATE: DECEMBER 12, 2023

CONSTRUCTION DOCUMENTS

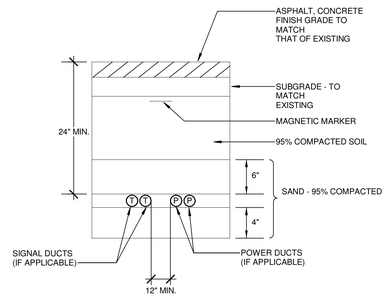
DATE PLOTTED: 12/12/2023 11:16:43 AM FILE LOCATION: C:\Users\morgan.sheehy\Documents\23219_LUSD_Millswood Middle School Portables Relocation_E22_Morgan.Sheehy.rvt



NOTE: COORDINATE PANEL LOCATION WITH EXISTING CONDITIONS FOR PLACEMENT OF IN-GROUND PULLBOX TO ENSURE MINIMAL ABOVE-GROUND RISER.

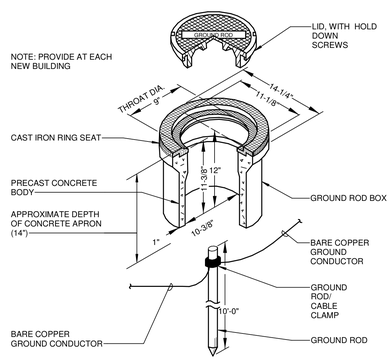
1 MODULAR BUILDING FEEDERS

SCALE: NTS



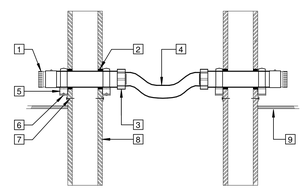
2 JOINT TRENCH

SCALE: NTS



3 GROUND ROD INSTALLATION

SCALE: NTS

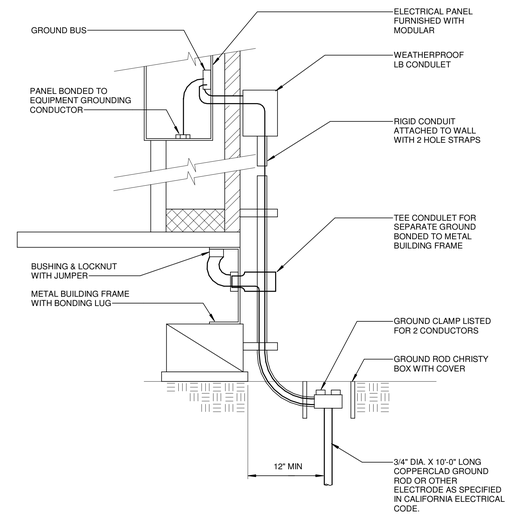


DETAIL NOTES:

1. PLASTIC BUSHING ON SET-SCREW CONNECTOR
2. CAULKING ACCORDING TO FIRE RATING, TYPICAL. PACK 1-HOUR RATED MINERAL WOOL IN CONDUIT SLEEVE.
3. WATER-TIGHT CONNECTORS IN ACCORDANCE WITH SPECIFICATIONS
4. WATER-TIGHT FLEXIBLE CONDUIT WITH ENOUGH SLACK TO ALLOW BUILDING TO MOVE 12" WITHOUT OVER STRESSING CONDUIT. REFER TO PLANS FOR CONDUIT SIZES AND QUANTITY.
5. CHANNEL STRUT BOLTED TO HEAVY ELL BRACKET
6. 3/8" X 1-1/2" MACHINE BOLT WITH WASHERS BOTH SIDES AND HEX NUT
7. 3/8" LAG SCREW, MIN. 2-1/2" EMBED
8. EXTERIOR OF BUILDING
9. DROP CEILING INSIDE BUILDING

4 CONDUIT PENETRATION BETWEEN PORTABLES

SCALE: 12" = 1'-0"



NOTES:

1. SIZE OF CONDUCTORS SHALL COMPLY WITH C.E.C. TABLE 250-66.
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO GROUNDING POINT IN ELECTRICAL PANEL AND TO METAL BUILDING FRAME IF APPLICABLE. BOND THE ELECTRICAL GROUND TO THE METAL WATER PIPE EMBEDDED AT LEAST 10 FT. INTO THE SOIL (C.E.C. 250-52)
3. ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE). USING #8 AWG CU.
4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN, SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (C.E.C. 250-53).
5. TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE PROJECT INSPECTOR.

5 TYP. GROUNDING FOR MODULAR CLASSROOMS

SCALE: NTS

AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

196 ARCHITECTS
1715 R STREET, SUITE 200
SACRMENTO, CA 95811
TEL TEL (916) 786-8178

CONSULTANTS

The Engineering Enterprise
CONSULTING ENGINEERS
ALAMEDA | AUBURN | LOS ANGELES
NEOSHO | SAN DIEGO | SANTA BARBARA
https://www.engent.com

PROFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
#E035487
FOR ACCESS ONLY
SCOTT WHEELER
ELECTRICAL
STATE OF CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION
-		
-		

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PROJECT OWNER & TITLE

LODI UNIFIED SCHOOL DISTRICT

1305 E. Vine St
Lodi, CA 95240

233 N Mills Ave
Lodi, CA 95242

SHEET TITLE

ELECTRICAL DETAILS

DRAWN BY: Author JOB NUMBER: 23219

SHEET NO.

E4.1

DATE: DECEMBER 12, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 12/12/2023 11:16:43 AM FILE LOCATION: C:\Users\morgan.sheehy\Documents\23219_LUSD_Millswood Middle School Portables Relocation_E22_Morgan.Sheehy.rvt

American Modular Systems

24 X 40 RELOCATABLE CLASSROOMS

TEST AND INSPECTION LIST

TESTING LABORATORY: _____ DATE: _____

NAME: _____

DISTRICT/OWNER: _____

DIVISION–FILE NO. _____ APPLICATION NO. _____

ARCHITECT: _____

STRUCTURAL ENGINEER: _____

STATE OF CALFORNIA
DEPT. OF GENERAL SERVICES
DIVISION OF THE
STATE ARCHITECT

STRUCTURAL
TESTS
AND
INSPECTIONS

DRS 103-1 (R 11/85)

he following tests and inspections, as checked, will be required and detailed in

COMPACTED FILL	CONCRETE	GUNITE	GROUT	MORTAR	
					Test of aggregates for mix design only
					Suitability tests of aggregates as detailed below
					Mix designs
					Continuous batch plant inspection
REINFORCING STEEL					Inspect shoring
X Sample and test bar steel					Sample
	X				Compressive tests
					Pick up samples at job
					Samples delivered to laboratory
					Deliver samples forms to jobsite
					Sample and test cement
STRUCTURAL STEEL					
X Sample and test as detailed below					
X Inspection of welds – Shop					
X Inspection of welds – Field					
BRICK AND BLOCK					
GLUED LAMINATED STRUCTURAL LUMBER					

SUITABILITY TESTS	CONCRETE MATERIALS	GUNITE	MORTAR	GROUT
Sodium sulphate				
Structural strength				
Los Angeles rattler				
Clay (Hydrometer method)				
Reactivity tests				
Volume change				

MIX DESIGNS: CONCRETE, GROUT, MORTAR OR GUNITE

MATERIAL	MAXIMUM SIZE	COMPRESSIVE STRENGTH, PSI, MINIMUM 28 DAYS					
CONCRETE	1 1/2"	3000					

List of structural steel members to be tested:

C7X9.8
C12X20.7
6 3/4"X14 GA. JOISTS
2"x18 ga. STRAPS

TESTING MAY BE WAIVED IF STEEL HAS BEEN PROPERLY IDENTIFIED BY MFR'S MILL ANALYSIS AND TEST REPORTS PER TITLE 24, C.C.R., SECTION 2212.A.1

Other Tests and Inspections, together with special instructions:

GROUNDING TEST
EXPANSION ANCHORS

Copies of Reports to:
DSA/ORS
AMERICAN MODULAR SYSTEMS, INC.
SCHOOL DISTRICT
ARCHITECT

By: _____
AUTHORIZED REPRESENTATIVE

INDEX

SHEET No.	DESCRIPTION
TS-1.1	TITLE & BUILDING DATA NOTES
N-1	GENERAL NOTES
1	FLOOR PLAN & NOTES
2	EXTERIOR ELEVATIONS
3	CEILING GRID, DETAILS & NOTES
S1	FOUNDATION PLAN WOOD, DETAILS & NOTES 50# (APPLIES TO UNITS 97-R286-017 AND 97-R286-018 ONLY)
~~S1A~~	~~FOUNDATION PLAN WOOD, DETAILS & NOTES 125#~~
~~S1B~~	~~FOUNDATION PLAN CONCRETE, DETAILS & NOTE 50#~~
~~S1C~~	~~FOUNDATION PLAN CONCRETE, DETAILS & NOTE 125#S~~
~~S1D~~	~~FOUNDATION BELOW GR. CONCRETE, DETAILS & NOTES 50#~~
~~S1E~~	~~FOUNDATION BELOW GR. CONCRETE, DETAILS & NOTES 125#~~
S2	FLOOR FRAMING PLAN & BUILDING SECTIONS
~~S2A~~	~~FLOOR FRAMING PLAN & BUILDING SECTIONS 125#~~
S2B	BUILDING SECTIONS AND WALL DETAILS
S3	ROOF FRAMING PLAN & DETAILS
S4	FRAMING ELEVATIONS & DETAILS
S5R.1	RAMP PLAN, ELEVATION & DETAILS
M1	MECHANICAL PLAN, DETAILS & NOTES
E1	ELECTRICAL PLAN, DETAILS & NOTES

BUILDING DATA

CLASSROOMS

OCCUPANCY	E-2
TYPE OF CONSTRUCTION	V – NON-RATED
WIND LOAD (80 MPH EXPOSURE C)	21 LBS/SQ FT
FLOOR LIVE LOAD	50 LBS/SQ FT OR 125 LBS./SQ. FT.
ROOF LIVE LOAD	20 LBS/SQ FT (REDUCIBLE)
RAMP LIVE LOAD	100 LBS/SQ FT
BUILDING AREA	960 SQ FT

FIRE MARSHAL– CALIFORNIA BUILDING CODE (CBC)
TITLE 24, PART 2, CCR (1994 UBC W/ CAL. AMENDS)
TITLE 24, PART 3, CCR (1993 NEC W/ CAL. AMENDS)
TITLE 24, PART 4, CCR (1994 UMC W/ CAL. AMENDS)
TITLE 24, PART 5, CCR (1994 UPC W/ CAL. AMENDS)
TITLE 24, PART 9, CCR (1994 UFC W/ CAL. AMENDS)
TITLE 24, PART 12, CCR (1994 STD. W/ CAL. AMENDS)
TITLE 19

STRUCTURAL – 1995 CALIFORNIA BUILDING CODE (CBC)
TITLES 24 PARTS 1 AND 2

MODULES	MOMENT–RESISTANT
SYSTEM	(2) 12' X 40' MODULES
FOUNDATION	PRESSURE TREATED WOOD OR CONCRETE
SEISMIC	ZONE 4

3" STANDING SEAM ROOF

39-50
APPROVED
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
AC _____ FLS _____ SS 2 of 5
APPL. NO. 8945 DATE 5/12/98

FILE NO.
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL. NO. 128
AC 12 FLS 12 SS 06
DATE 4/9/97

REGISTERED PROFESSIONAL ENGINEER
DAVID D. SCHLUETER
No. 2569
STRUCTURAL
STATE OF CALIFORNIA

JOB NO.
DATE: APRIL 8,1997
SHEET NUMBER
TS-1.1
BINDING ORDER 1

AGENCY APPROVAL DSA# 02-121945
39-50
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION
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PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
TITLE & BUILDING DATA NOTES

DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.
TS-1.1
DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 11/28/2023 9:11:51 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK8V.rvt

GENERAL NOTES AND SPECIFICATIONS

SECTION 1A — 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 ARCHITECT.

C. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF TITLES 19 AND 24 CALIFORNIA CODE OF REGULATIONS. NO CHANGES SHALL BE MADE FROM D.S.A. APPROVED DRAWINGS OR SPECIFICATIONS WITHOUT PRIOR WRITTEN APPROVAL OF D.S.A. AND THE ARCHITECT.

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 TITLES 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 BY THE ARCHITECT OF RECORD.
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 ARCHITECT & APPROVED BY D.S.A.
6. CHANGE ORDERS SHALL BE SIGNED BY THE OWNER & ARCHITECT & APPROVED BY D.S.A.
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 DESIGNER/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 A PERMANENT METAL IDENTIFICATION LABEL ON EACH MODULE, MECHANICALLY FASTENED TO THE FRAME AND VISIBLE FROM THE EXTERIOR OF THE END OF THE MODULE. SEE "GENERAL DESIGN REQUIREMENTS", THIS PAGE. 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 REQ. BY FIRE AND LIFE SAFETY REGULATIONS SHALL BE BY A NATIONALY RECOGNIZED TESTING LABORATORY.

FOUNDATION

1. ASSUMED ALLOWABLE SOIL BEARING: 1000 PSF.
2. FOOTINGS SHALL BE LOCATED ON UNDISTURBED FIRM NATURAL SOIL, APPROVED COMPACTED FILL OR ON AN APPROVED PAVED SURFACE.

NOTE:THE FOUNDATION SYSTEM PRESENTED HEREIN COMPLIES WITH INTERPRETATION OF REGULATIONS, IR 23-6, ISSUED BY DIVISION OF THE STATE ARCHITECT FOR TEMPORARY BUILDINGS. THIS FOUNDATION SYSTEM IS NON-CONVENTIONAL AND THE STRUCTURAL ENGINEER TAKES NO RESPONSIBILITY FOR ITS CONSTRUCTION OR LONGEVITY.

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.

TRIM/ FINISH NAILING

DESCRIPTION	SET	SIZE	LENGTH	FINISH
SIDING		.131	2 1/4"	GALV
CASING, SILL & INT. CORNER TRIM	X	16g	1 1/4"	N
2X FASCIA		.131	3"	GALV
SOFFIT		.131	2 1/4"	GALV
1X EXT. TRIM, WINDOWS, EXT. DOORS, EXT. TRIM		.113	2"	GALV

SECTION 6 WORKMANSHIP

A. GENERAL - ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC STANDARD SPECIFICATIONS,TITLE 24 OF CALIFORNIA CODE OF REGULATIONS 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.

B. 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, SECTION 2212.A.5 WELDING ELECTRODE SHALL BE E70XX.
1. STRUCTURAL STEEL SHALL CONFORM TO A.S.T.M. A-36 & A-570 GR.36.
2. PIPE COLUMNS SHALL COMFORM TO A.S.T.M. A-53 WITH SULFUR CONTENT NOT EXCEEDING 0.05%.
3. STEEL TUBING SHALL CONFORM TO A.S.T.M. A-500 GRADE B OR A.S.T.M. A579 GRADE 50 FOR GAUGE TUBING-TYP. U.N.O.
4. STRUCTURAL WELDS ARE DESIGNED FOR FULL ALLOWABLE STRESS UNLESS OTHERWISE NOTED.

C. ERECTION - STRUCTURAL STEEL ERECTED TRUE,STRAIGHT, PLUMB AND TO ITS DESIGNATED LOCATIONS. FIELD CONNECTIONS BOLTED OR WELDED AS INDICATED ON THE DRAWINGS.

D. NAILS,BOLTS, SCREWS AND NUTS ETC.- FOR EXTERIOR WORK SHALL BE CADMIUM PLATED OR GALVANIZED.
1. BOLTS FOR STRUCTURAL STEEL JOINTS SHALL CONFORM TO A.S.T.M. A-307 UNLESS OTHERWISE NOTED. ALL HOLES FOR MACHINE AND CARRIAGE BOLTS THROUGH STEEL TO BE DRILLED, OR TORCH PILOT HOLE AND REAM MIN. 1/16" TO CORRECT SIZE. NELSON STUDS (WELDED TO STEEL) MAY BE SUBSTITUTED FOR BOLTS SAME LENGTH AND DIAMETER EXCEPT AT SIMPSON MTT28B.

E. HANDRAILS - FABRICATED, AS DETAILED, WELDS GROUND SMOOTH.

F. SHOP PAINT
1. EXPOSED STEEL COATED WITH ONE SHOP COAT OF RED OXIDE PRIMER.
2. NON-EXPOSED STEEL COATED WITH ONE SHOP COAT OF RED OXIDE PRIMER.
3. ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO APPLICATION OF SHOP COATS.PRIME ALL EXPOSED STEEL SURFACES AFTER FIELD WELDING.

G. TESTS
1. PROVIDE MILL CERTIFICATES OR TEST ALL STEEL MEMBERS PER T-24 PART 2,CCR SECTION 2212.A.1.

SECTION 6A — CARPENTRY

1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR,MATERIALS AND SERVICES TO INSTALL CARPENTRY

2. MATERIALS
LUMBER GRADE MARKED IN ACCORDANCE WITH "STANDARD GRADING AND DRESSING RULE NO. 17 OF WEST COAST LUMBER INSPECTION BUREAU, OR "GRADING RULES FOR LUMBER,3RD EDITION OF WESTERN WOOD PRODUCTS ASSOCIATION OR W.C.L.I.B.. PLYWOOD GRADE MARKED IN ACCORDANCE WITH PRODUCT STANDARD PS 1-95 FOR SOFTWOOD PLYWOOD,OF AMERICAN PLYWOOD ASSOCIATION, COMPLYING WITH CBC EACH SHEET SHALL BEAR THE STAMP OF APA, PITTSBURGH TESTING, OR TECO.

A. JOISTS, RAFTERS, PLATES, STUDS-DOUGLAS FIR OR HEM FIR S4S #2 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. HEADERS,POSTS AND TIMBERS-DOUGLAS FIR S4S #1
C. BLOCKING - DOUG FIR #3,OR HEM FIR #3,OR STD. & BET.
D. SILLS AND LUMBER & SHIM PLATES IN CONTACT WITH CONCRETE,MASONRY OR EARTH, DOUG FIR #2 PRESSURE TREATED IN ACCORDANCE WITH CBC 1811.7. EACH PIECE SHALL BEAR AWPB STAMP. LP-22 GROUND CONTACT,D.F.#2 ABOVE GROUND.
E. PLYWOOD ROOF DECKING - NOT USED.
F. PLYWOOD FLOOR DECKING - APA STURD-I-FLOOR 2-4-1 OR UNI-FLOOR BY PITTSBURGH TESTING LAB, 1-1/8"NOM. TONGUE AND GROOVE FLOOR SHEATHING, WITH EXTERIOR GLUE.
G. EXTERIOR SIDING/SHEATHING - APA TYPE 303,EXTERIOR.
H. MOISTURE BARRIER - KRAFT WATERPROOF BUILDING PAPER, OR 15 LB. FELT, UBC STANDARD 14-1 FOR KRAFT, 15-1 FOR FELT.
J. STUDS - DOUG FIR #2. OR HEM FIR #2.
K. FASTENERS - ALL NAILS SHALL BE CORROSION RESISTANT PER UBC STANDARD 25-17. ELECTROGALVANIZED COMMON NAILS U.N.O.
L. BUILDING TRIM - 2X RESAWN SELECT D.F.,H.F.,OR CEDAR
M. DOOR/WINDOW TRIM - 1X4 REWAWN D.F.,H.F.,OR CEDAR.
N. FRAMING CONNECTORS SHALL BE FROM SIMPSON CATALOG LATEST ED.
O. FIRE BLOCKS SHALL CONFORM TO CBC SECTION 708.
P. ALL NAILS SHALL BE COMMON NAILS UNLESS OTHERWISE NOTED.
Q. FOUNDATION LUMBER: ALL CUT ENDS AND HOLES IN PRESSURE TREATED LUMBER SHALL BE TREATED WITH "CUPRINOL".

3. WORKMANSHIP

A. FRAMING - SECURELY NAILED,BRIDGED AND BLOCKED TO FORM RIGID STRUCTURE. WORK CUT, FITTED AND ASSEMBELED 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,PART 2, CALIFORNIA CODE OF REGULATIONS,TABLE 23-I-Q
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. MACHINE APPLIED NAILING: USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD. 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.
E. MOISTURE BARRIER - APPLIED TO STUDS WEATHER-BOARD FASHION, HORIZONTAL JOINTS LAPPED MIN 6" INCLUDING BUILDING CORNERS. SHEATHING APPLIED OVER MOISTURE BARRIER.
F. TRIM SEALED AT ALL EDGES. SEALANT PAINTED TO MATCH TRIM OR SIDING UNLESS TRANSPARENT TYPE.

SECTION 7B — SHEET METAL

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 A526. MINIMUM 26 GA. UNLESS OTHERWISE NOTED ON THE DRAWINGS.
B. SOLDER - OF STAND,GRADE "A" OF EQUAL PARTSARD 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

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 7C — METAL ROOFING

1. SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL METAL ROOFING. TEST RESULTS SHOWING THE ROOFING SYSTEM WILL WITHSTAND THE UPLIFT OF A 80 MPH WIND SHALL BE SUBMITTED WITH THE PLANS AND SPECIFICATIONS.

2. MATERIALS
A. ROOFING - 3" INCH STANDING SEAM 22-GAUGE G-90 GALV. INTERLOCKING SHEET STL PANELS (G90).

SECTION 7J — 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.

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 CONCRETE — CONCRETE (IF USED)

1. CONCRETE MORTAR AND RELATED MATERIALS TO CONFORM TO APPLICABLE PROVISIONS OF TITLE 24 EXCEPT AS MODIFED HEREIN.
2. REINFORCEING BARS:ASTM A615 OR ASTM A706 DEFORMED GRADE 40 BILLET STEEL.
3. EXPANSION JOINT FILLER: ASTM D994
4. FORM MATERIALS: SIDE FORMS DOUGLAS FIR, CONSTRUCTION GRADE OR BETTER: OR METAL FORMS.
5. PLACING REINFORCEMENT, PLACING CONCRETE SUFACE FINISHES, CURING AND REMOVAL OF FORMS SHALL BE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF TITLE 24, PART 2.

SECTION 8B — 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 - 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, SHARDP FIT FABRICATED ACCURATELY WITH SQUARE CORNERS, HAIRLINE JOINTS AND SURFACES FREE FROM WARP,WAVE,BUCKLE OR OTHER DEFECTS AFTER FABRICATION,DOORS AND FRAMES CLEANED THOUROUGHLY,ALL WELDS GROUND SMOOTH AND GIVEN PRIME COAT.

SECTION 8D — FINISH HARDWARE

1. SCOPE OF WORK
CONTRACTOR SHALL SUPPLY AND INSTALL FINISH HARDWARE AS SPECIFIED AND AS REQUIRED.
2. SCHEDULE FOR EXTERIOR DOORS
SEE NOTE ON FLOOR PLAN.
3. SPECIAL REQUIREMENTS
A. EXIT DOORS SHALL BE OPENABLE FROM THE INTERIOR WITHOUT KEY OR SPECIAL KNOWLEDGE OR EFFORT.
B. CLOSER SHALL BE SET FOR A MAXIMUM OPENING PRESSURE OF 8.5 LBS. PRESSURE.

SECTION 9E — PAINTING

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

3. WORKMANSHIP
ALL EXPOSED SURFACES SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES AND THRESHOLDS. 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 PRECOATED 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-SKID 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 FOR MAINTENANCE PAINTS 8010-91G-98A DATED JULY 1989. OR EQIAL.
F. SUBMIT ONE SET COLOR SAMPLES TO ARCHITECT FOR EACH PRODUCT TO ASSIST IN SELECTION.

SECTION 13F — 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.

NOTE:

WALL FINISH MATERIAL
FLAME SPREAD MAX = 200
SMOKE DENSITY MAX = 450
BUILDING INSULATION
FLAME SPREAD MAX = 25
SMOKE DENSITY MAX = 450
PIPE INSULATION
FLAME SPREAD MAX = 25
SMOKE DENSITY MAX = 450
DUCT INSULATION
FLAME SPREAD MAX = 25
SMOKE DENSITY MAX = 50

SECTION 15A — AIR CONDITIONING

1. SCOPE OF WORK (SEE SHEET M-1 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 16A — ELECTRICAL

1. SCOPE OF WORK
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.

2. MATERIALS
ALL NEW COMPLYING WITH REQUIREMENTS OF CALIFORNIA ELECTRICAL CODE AND NATIONAL FIRE PROTECTION ASSOCIATION
A. ELECTRIC METALLIC TUBING - COUPLING AND FLEX CONDUIT GALVANIZED OR SHERARDIZED. EXTERIOR FLEX- GALV. STEEL W/ FACTORY APPLIED P.V.C. JACKET.
B. PANELBOARDS - 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. +15" A.F.F. MIN.
E. CLOCK RECEPTACLE - AS NOTED.
F. SWITCHES - AS NOTED. +48" A.F.F. MAX.
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. PANELBOARD CARDS 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 BLDG 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 WHEN 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 SSS-6). 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.

COORDINATION OF WORK

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE 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 AY 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

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.

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 ARCHITECT THAT SUCH IS THE CASE.

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.

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:

TWO (2) APPROXIMATELY 12' X 40' MODULES DESIGNED SO THAT TWO 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.

EACH MODULE SHALL BE PERMANENTLY IDENTIFIED WITH AN IMPRINTED (STAMPED NOT ENGRAVED) METAL IDENTIFICATION TAG 3"X1 -1/2" MINIMUM SIZE WITH THE FOLLOWING INFORMATION:

1. MANUFACTURER'S BUILDING NUMBER.
2. DESIGN WIND LOAD
3. DESIGN ROOF LIVE LOAD
4. D.S.A. APPLICATION NUMBER.

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.

EACH 12' X 40' 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 AGENCY ARCHITECT OR STRUCTURAL ENGINEER, CAUSES EXCESSIVE WORKING AT ANY JOINT OR COMPROMISES THE STRUCTURAL INTEGRITY OF THE MODULE SHALL BE SUFFICIENT REASON FOR REJECTION OF THE MODULE.

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.

DIMENSIONS

THE BUILDINGS SHALL OCCUPY AN AREA OF 960 SQUARE FEET WITH A TOLERANCE OF MINUS 5 SQUARE FEET. THE BUILDINGS SHALL BE 24' X 40'. ALL BUILDINGS SHALL MEET THE SQUARE FOOTAGE REQUIREMENT. LINEAR DIMENSIONS SHALL BE VERTICAL TRIM FINISH LINE TO VERTICAL TRIM FINISH LINE.

FASCIA AND REQUIRED OVERHANGS ARE NOT INCLUDED IN THE CALCULATION OF THE SQUARE FOOTAGE THE BUILDING OCCUPIES. THE ENTRANCE WALL SHALL HAVE A 5' MINIMUM ROOF OVERHANG. THE REAR WALL SHALL HAVE A MINIMUM 2' OVERHANG. FULL LENGTH GUTTERS AND DOWNSPOUTS SHALL BE FURNISHED ON THE SIDES OF EACH OVERHANG AND EACH ROOF EDGE WHERE DRAINAGE OCCURS. THE INTERIOR HEIGHT,FLOOR TO CEILING SHALL BE 8'-6" U.O.N. THE MODULE SHALL BE CLEAR SPAN TYPE EXCEPT AS PROVIDED FOR IN THE BID SPECIFICATIONS NOTHING SHALL PROTRUDE MORE THAN 1" BELOW THE CEILING LEVEL.

ITEMS NOTED AS N.I.C. (NOT IN CONTRACT) OR "BY OTHERS" IS THE RESPONSIBILITY OF THE SCHOOL DISTRICT DEPENDING ON THE AGREEMENT WITH DISTRICT.

IN THE EVENT OF CONFLICT BETWEEN THESE SPECIFICATIONS AND THE DISTRICT BID SPECIFICATIONS, THE DISTRICT SPECIFICATIONS SHALL PREVAIL.

APPROVED DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
AC — F/LS — SS GF
APPL. NO. 60145 DATE 5/13/98

REGISTERED PROFESSIONAL ENGINEER — DAVID O. SCHLUETER — No. 2569 — STRUCTURAL — STATE OF CALIFORNIA
D Schlueter

FILE NO.
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
APPL. PC 328
AC — FLS — SS JR
DATE 4/9/97

3" STANDING SEAM ROOF

24 X 40
RELOCATABLE
CLASSROOMS

American Modular Systems

CUSTOMER:

GENERAL NOTES

DATE: 4-8-97
SCALE: NONE
DRAWN BY: R.S.
CHECKED BY:
CHECKED BY:
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
△			△		
△			△		
△			△		
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PROJECT No.

SHEET No. N-1

AGENCY APPROVAL DSA# 02-121945 39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION
-		
-		

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
GENERAL NOTES

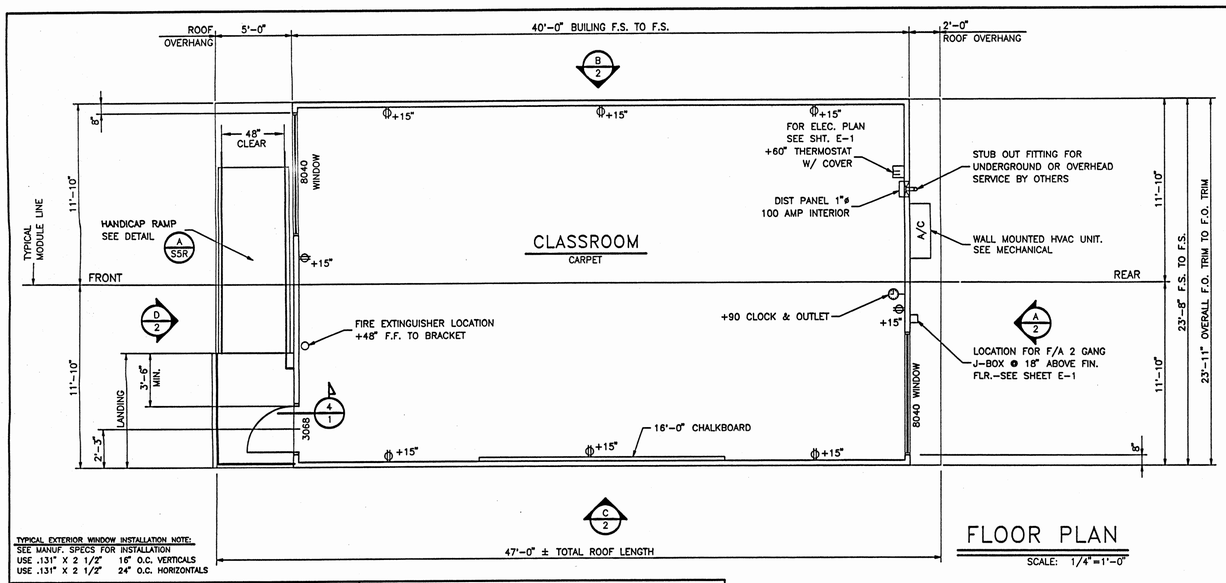
DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.
N-1

DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

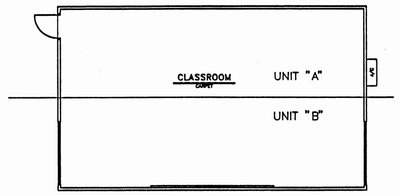
DATE PLOTTED: 11/28/2023 9:11:51 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK8V.rvt



TYPICAL EXTERIOR WINDOW INSTALLATION NOTE:
SEE MANUF. SPECS FOR INSTALLATION
USE .131" X 2 1/2" 16" O.C. VERTICALS
USE .131" X 2 1/2" 24" O.C. HORIZONTALS

FLOOR PLAN

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



OPTIONAL FLOOR PLAN

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

NOTES
INTERIOR

1. Floor: Carpets – Units shall be carpeted as indicated on floor plan with direct glue down type per State of California Specification 7220-XXX-01, Group 1, Type A, Class 26. Color will be selected by District after award of bid. The carpet density shall be 4600 minimum. Pile yarn shall be branded nylon. No cross seams shall be allowed.

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 manufactured by "Johnsonite Co", Flexco, or equal. Apply cove to complete perimeter of classroom.

3. Interior walls shall be vinyl covered tackboard U.N.O. 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 ft. 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 sheating 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 3/8" plywood sheathing. The vinyl wall covered panel shall have a Class III flame spread rating. 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: Suspend T-Bar System, see sheet 3 for details etc. Materials and installation per CCR 2501.A.5 and IR §47-4 inclusive as applicable to classrooms.

DOORS & WINDOWS

Exterior Doors: Metal Doors – 3'0"X6'8" hollow metal door construction of 1 sheet of 18 ga. steel assembled per CS242 min and reinforced with 20 ga. min. continuous vertical steel stiffeners spaced @ 6" O.C. Fill spaces between stiffeners 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 & CS242. Hardware reinforcement shall be 10 ga. plate. Frames shall be designed with integral stop and trim. Provide (3) anchors per jamb.

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 lights of glass and the air space. Glazing material shall be:

Exterior Lite – 3/16" minimum tempered glass or laminated as – 1 glass of solar gray glass reducing type with a light transmission factor of 45% maximum.

Interior Lite – 1/8" minimum clear tempered.

Minimum air space shalle be 1/4".

Space – Bent or sealed corner aluminum with desiccant fill

Sealer – Butyl primary seal and polysulfide of silicone secondary seal.

Certification – All glazing to be certified in accordance with ASTM E-773, E-774.

Header height shall be the same as the door. All operable sash shall have aluminum screens. Windows shall not be mounted to the exterior plywood surface. All windows shall meet the AAMA CS101-88 voluntary spec. For aluminum prime windows and sliding glass (ANS1), commercial grade.

HARDWARE

1. Exterior Door
A) Hinges: HAGER 4-1/2X4-1/2 butts, BB1279 US26D,1-1/2 pair each door with set screw in barrel and ball bearing design, or approved equal.
B) Lockset: Classroom lever handle lockset, mortise or cylindrical type, Schlage D70PD (Rodes) or equal. US26D finish.

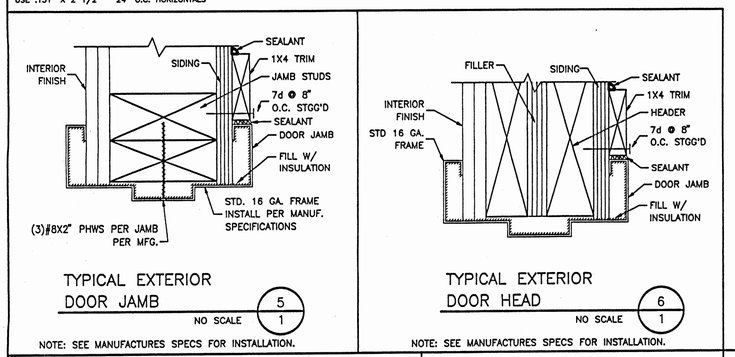
C) Closer: Norton 8500DA or 8500BF series, LCN 1460 Del series or equal.
D) Weatherstripping: All exterior doors shall be weatherstripped with Pemko 299D, Ultra WS007, at door jambs and head or equal.
E) Threshold: Threshold shall be Pemko 271 AV 5" aluminum with Pemko 216 AV Ultra TH042 door bottom.
F) Doorstop: Quality #44, or equal.

FIRE EXTINGUISHER

1. Each portable classroom shall be equipped with pressure type fire extinguishers with 2A10BC UL rating. To be mounted on the interior wall of the building near the doorway(s) at a height of 4 feet to mounting bracket. Fire extinguishers shall be totally charged and have a dial indicating the state of charge.

CHALKBOARD SPECIFICATIONS

Chalkboards(standard) shall have green facing sheet. Markerboards(extra cost option)
Markerboards shall be 5 mil thick melamine facing sheet suitable to accept dry erase felt markers. The facing sheet shall be laminated, using hot melt adhesive, to a medium density particleboard substrate with a minimum density of 45#/c. 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 the panel. A full length map rail shall be provided with cork insert end and stops. The map rail and chalkrail are to incorporate a channel to wrap around the panel. Three (3) map hooks, with clips, personel shall be provided. One flag holder, 1/2" size, shall be provided for each classroom. Each classroom shall be 2 ea. 4x8 panels installed side by side to make a 4x16 panel, centered on one of the long walls. Referenced brand: Chatfield-Clarke Co. series 500. Attach directly to studs and blocking W/#8x2" oval head wood screw @ 32" o.c. horizontally and @ 24" o.c. vertically.

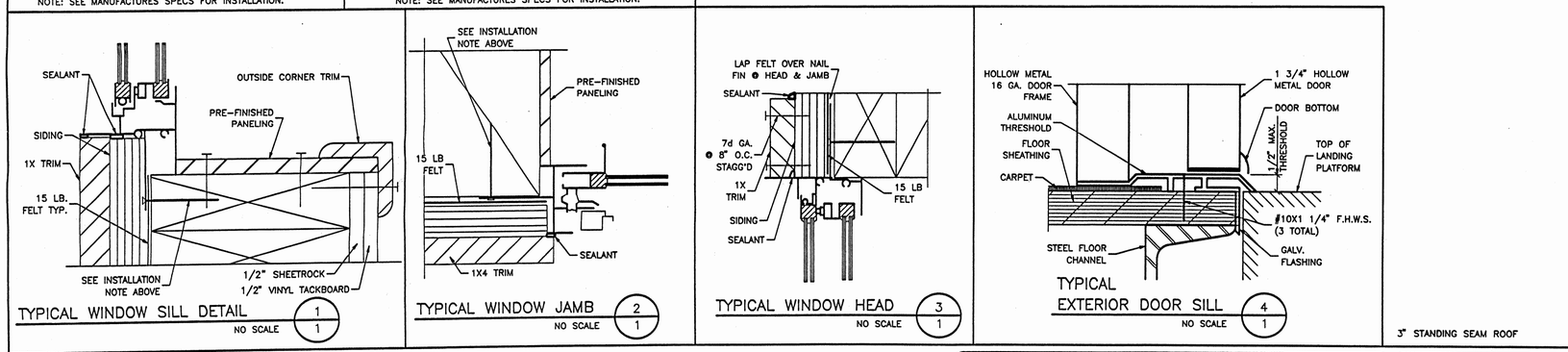


TYPICAL EXTERIOR DOOR JAMB — 5/1 — NO SCALE

NOTE: SEE MANUFACTURES SPECS FOR INSTALLATION.

TYPICAL EXTERIOR DOOR HEAD — 6/1 — NO SCALE

NOTE: SEE MANUFACTURES SPECS FOR INSTALLATION.



TYPICAL WINDOW SILL DETAIL — 1/1 — NO SCALE

TYPICAL WINDOW JAMB — 2/1 — NO SCALE

TYPICAL WINDOW HEAD — 3/1 — NO SCALE

TYPICAL EXTERIOR DOOR SILL — 4/1 — NO SCALE

3" STANDING SEAM ROOF

APPROVED DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES AC ___ FLS ___ SS ___ APPL NO. ___ DATE ___

REGISTERED PROFESSIONAL ENGINEER DAVID O. SCHLUETER No. 2569 STRUCTURAL STATE OF CALIFORNIA

FILE NO.
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
APPL. NO. 328
AC ___ FLS ___ SS ___
DATE 4/9/97

24 X 40
RELOCATABLE
CLASSROOMS

American Modular Systems

CUSTOMER:

FLOOR PLAN & NOTES

DATE: 4-8-97
SCALE: NONE
DRAWN BY: R.S.
CHECKED BY:
CHECKED BY:
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

PROJECT No.

SHEET No. 1

AGENCY APPROVAL DSA# 02-121945 39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

PROFESSIONAL STAMP

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PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
FLOOR PLAN AND NOTES

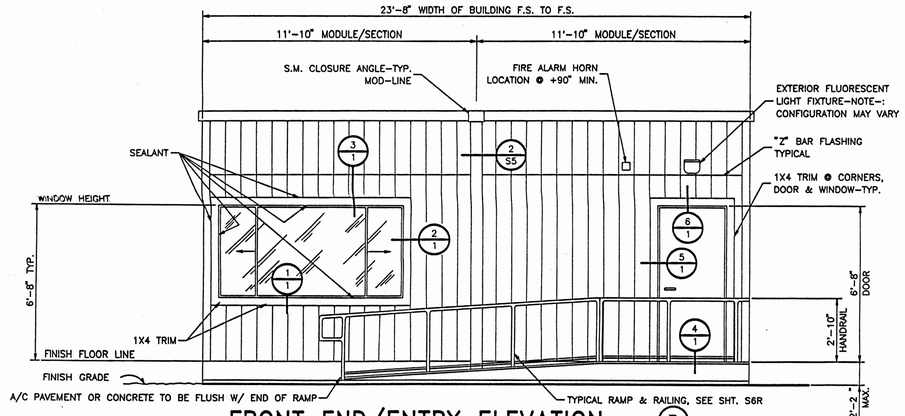
DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.
1

DATE: DECEMBER 5, 2023

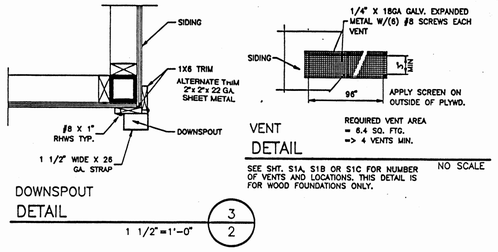
CONSTRUCTION DOCUMENTS

DATE PLOTTED: 11/28/2023 9:11:51 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK8V.rvt



FRONT END/ENTRY ELEVATION (D)

SCALE:3/8"=1'-0"

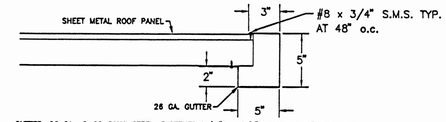


DOWNSPOUT DETAIL (3/2)

1 1/2"=1'-0"

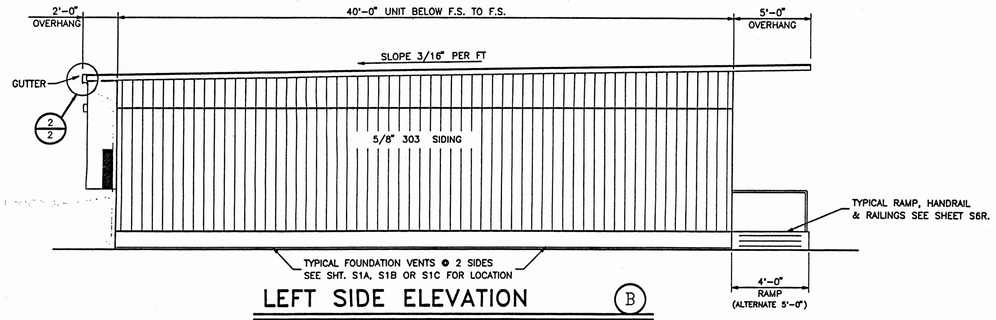
VENT DETAIL

NO SCALE



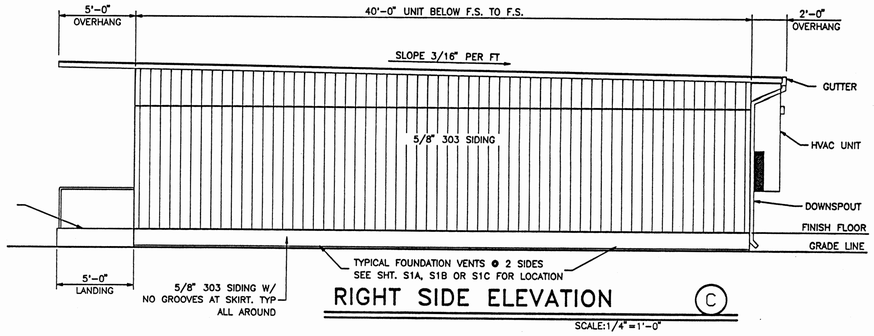
GUTTER: 26 GA., G-90 GALV. STEEL, FASTENED W/ #8 x 3/4" S.M.S. @ 48" O.C. MAX.
DOWNSPOUT: 2"X3" G-90 30 GA. CONVOLUTED GALV. STEEL.
DOWNSPOUT STRAPS: 26 GA. STEEL X 1 1/2" WIDE ATTACHED TO BLDG. MAX. 6'-0" O.C.

GUTTER AT OVERHANG DETAIL (2/2)



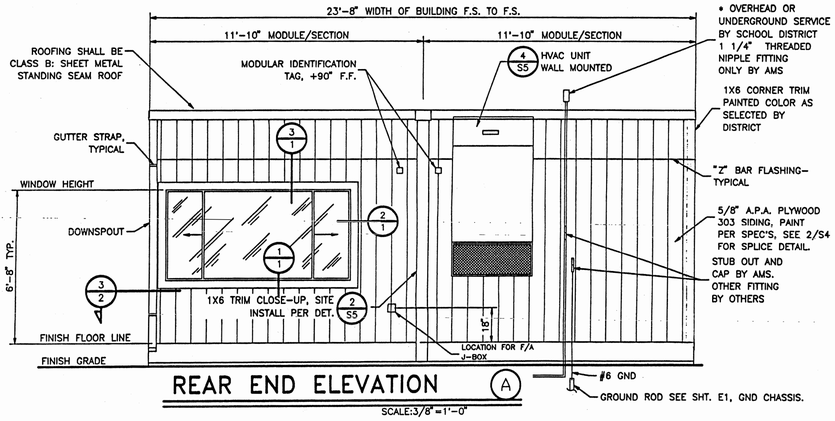
LEFT SIDE ELEVATION (B)

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



RIGHT SIDE ELEVATION (C)

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



REAR END ELEVATION (A)

SCALE:3/8"=1'-0"

APPROVED DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
AC ___ F/S ___ SS ___
APPL. NO. 08145 DATE 2/13/96

REGISTERED PROFESSIONAL ENGINEER DAVID O. SCHLUETER No. 2569 STRUCTURAL STATE OF CALIFORNIA

FILE NO.
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
APPL. NO. 328
AC ___ FLS ___ SS ___
DATE 4/9/97

24 X 40
RELOCATABLE
CLASSROOMS

American Modular Systems

CUSTOMER:

EXTERIOR ELEVATIONS

DATE: 4-8-97
SCALE: NONE
DRAWN BY: R.S.
CHECKED BY:
CHECKED BY:
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

PROJECT No.

SHEET No. 2

AGENCY APPROVAL DSA# 02-121945
39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION
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LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
EXTERIOR ELEVATIONS

DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.
2

DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

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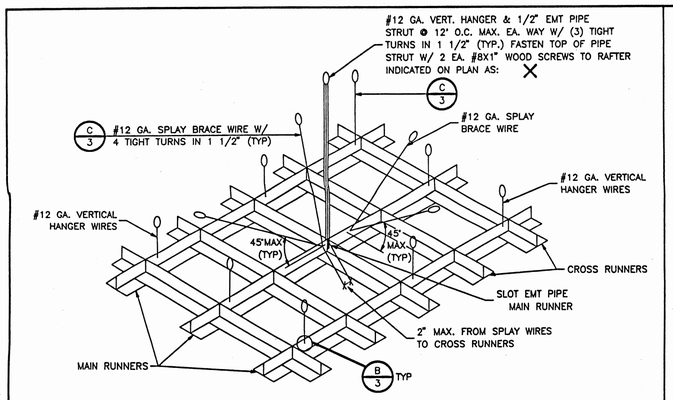
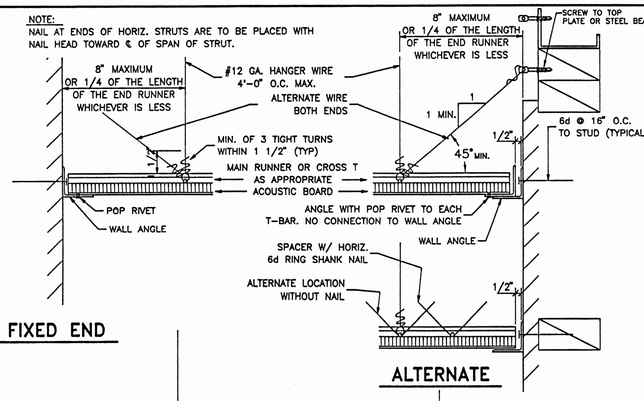
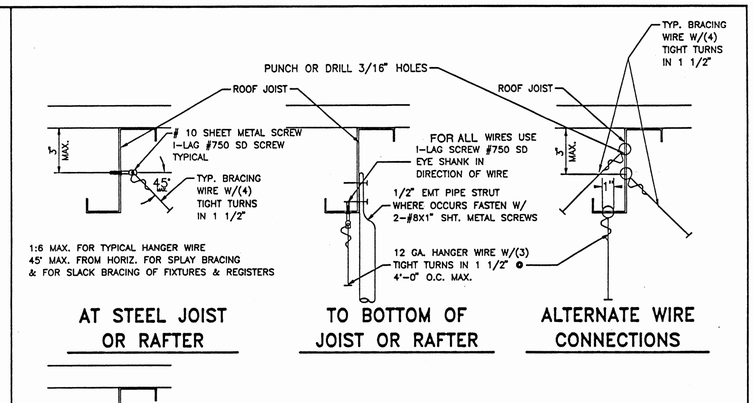


NOTE: SPLAYED BRACING WIRES SHALL BE SPACED NOT MORE THAN 12 FT. ON CENTER.

ATTACHMENT FOR CEILING GRID DETAIL — A/3

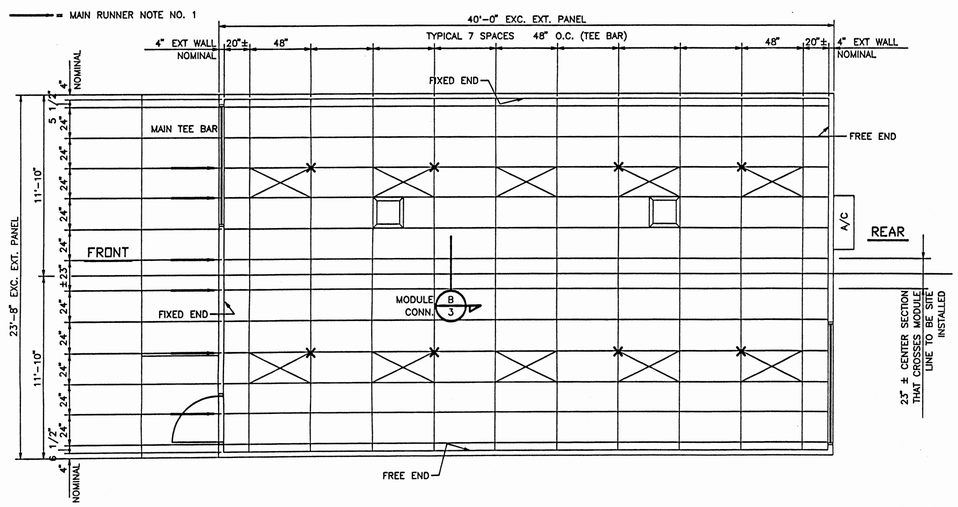
NO SCALE





CONNECTIONS TO STEEL JOISTS OR PURLINS DETAIL — C/3

NO SCALE



CEILING TEE BAR GRID LAYOUT WITH LIGHT FIXTURES

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

METAL SUSPENSION SYSTEMS FOR LAY IN PANEL CEILING

1. 12 GA. (MIN) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4'-0" x 4'-0 GRID SPACING, ALONG MAIN RUNNER. SPLICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED BY DSA/ORS.
2. 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.
3. 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 AREA. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE TO HAVE COUNTERBRACED WIRES.
4. CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN 2 ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 1/2 INCH FREE OF OTHER WALLS. RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM BE FREE AND A MINIMUM OF 1/2 INCH CLEAR OF WALL.
5. 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 12" OR LESS, THIS INTERLOCK IS NOT REQUIRED.
6. PROVIDE SETS OF 4-#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 DSA/ORS APPROVAL.

7. FASTEN HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS. FASTEN SPLAY WIRES WITH 4 TIGHT TURNS. MAKE ALL 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.
8. SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6 INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT ETC., IT IS ACCEPTABLE TO ATTACH LIGHT-WEIGHT ITEMS, SUCH AS SINGLE ELECTRICAL CONDUIT NOT EXCEEDING 3/4" NOMINAL DIAMETER, TO HANGER WIRES USING CONNECTORS ACCEPTABLE TO DSA/ORS.
9. ATTACH ALL LIGHT FIXTURES AND AIR TERMINALS TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES.
10. FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR SERVICES WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM BUT, IN ADDITION, THEY MUST HAVE A MINIMUM OF 2-#12 GA. SLACK SAFETY WIRES ATTACHED AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE.
11. CLASSIFICATION OF CEILING GRID:
    CLASSIFICATION OF CEILING GRID IS "HEAVY DUTY" PER ASTM C635
    MANUFACTURER'S CATALOG NUMBER – MAIN RUNNER HEAVY DUTY MAIN TEE OR EQUAL PER TABLE A.
    MANUFACTURER'S CATALOG NUMBER – CROSS RUNNER PER TABLE A.

    MANUFACTURER'S CATALOG NUMBER OF DETAIL FOR RUNNER SPLICE N/A.
    ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL-FACED FIBERGLASS LAY-IN PANELS SQUARE EDGE ASTM FLAME SPREAD CLASS 1, 24" X 48" MODULAR SIZE, LIGHT REFLECTION 75% MINIMUM, NOISE REDUCTION COEFFICIENT OF 0.65 MINIMUM. MAXIMUM SMOKE DENSITY NOT TO EXCEED 450.

TABLE A HEAVY DUTY GRID COMPONENTS

MANUFACTURER	MAIN TEE	H.D. 4' CROSS TEE	H.D. 2' CROSS TEE
DONN/USG	DX-26	DX-424	DX-216
ARMSTRONG	7301	7341	7323
CHICAGO MET.	200-01	1204-01	1226-01

NOTE: ALL GRID COMPONENTS SHALL BE BY SAME MANUFACTURER

APPROVED DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
AC ____ FLS ____ SS ____
APPL. NO. 25145 DATE 5/3/96

FILE NO.
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APPL. PG. 328
AC ____ FLS ____ SS ____
DATE 4/9/97

REGISTERED PROFESSIONAL ENGINEER DAVID O. SCHLUETER No. 2569 STRUCTURAL STATE OF CALIFORNIA

24 X 40
RELOCATABLE
CLASSROOMS

American Modular Systems

CUSTOMER:

CEILING GRID, DETAILS AND NOTES

DATE: 4-8-97
SCALE: NONE
DRAWN BY: R.S.
CHECKED BY:
CHECKED BY:
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

PROJECT No.

SHEET No. 3

AGENCY APPROVAL DSA# 02-121945 39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION
-		
-		
-		

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
CEILING, GRID, DETAILS, AND NOTES

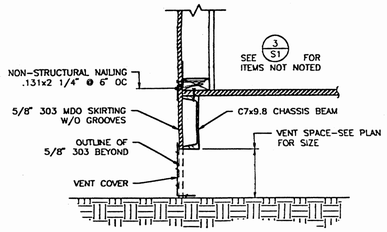
DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO. **3**

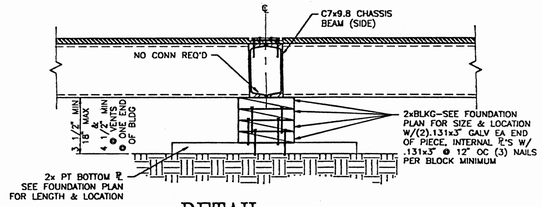
DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

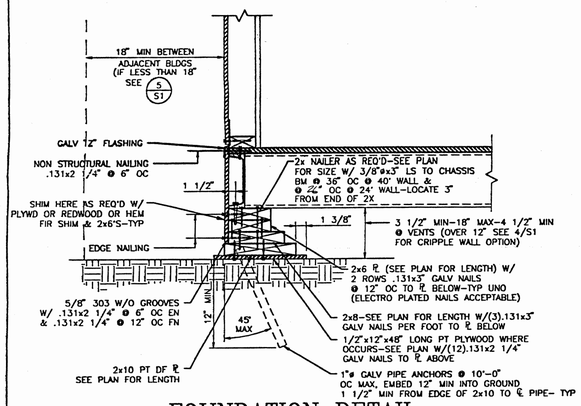
DATE PLOTTED: 11/28/2023 9:11:51 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK6V.rvt



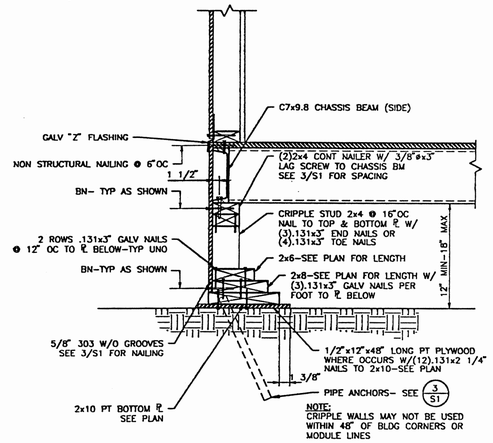
1/S1 FOUNDATION DETAIL
1 1/2" = 1'-0"



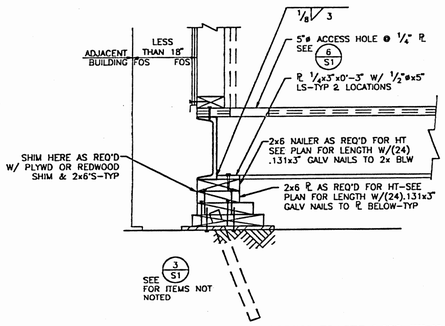
2/S1 DETAIL
1 1/2" = 1'-0"



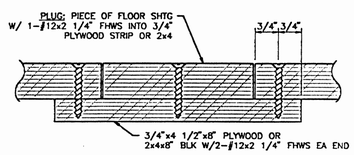
3/S1 FOUNDATION DETAIL
1 1/2" = 1'-0"



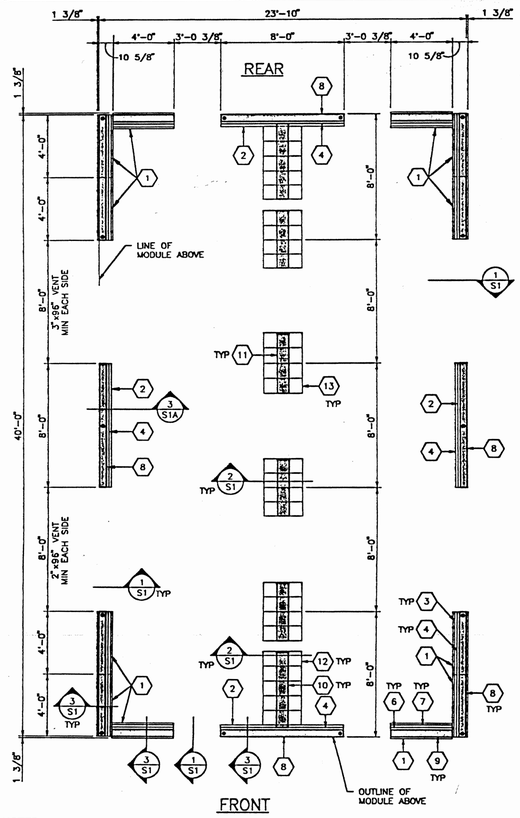
4/S1 FOUNDATION DETAIL
1 1/2" = 1'-0"



OPTIONAL FOR BUILDING PLACES LESS THAN 18" APART
5/S1 FOUNDATION DETAIL
1 1/2"=1'-0"



FILLER ACCESS HOLE
6/S1 DETAIL
NO SCALE



LEGEND

1. 1/2"x12" WIDE x 48" LONG PT STRUCTURAL PLYWOOD (CDX PLYWOOD)
2. 2x10x8'-0" LONG PT ℄
3. 2x10x8'-0" LONG ℄
4. 2x8x8'-0" LONG ℄
5. NOT USED
6. 2x8x4'-0" LONG ℄
7. 2x10x4'-0" LONG ℄
8. MULTIPLE 2x6x8'-0" LONG AS REQ'D FOR HEIGHT
9. MULTIPLE 2x6x4'-0" LONG AS REQ'D FOR HEIGHT
10. 2x10 ℄ W/ SHIM, SEE 2/S1
11. 2x10 BLKG, SEE 2/S1
12. (5)2x12x2'-6" OR (6)2x10x2'-6" OR (7)2x8x2'-6", SEE 2/S1
13. (4)2x12x2'-0" OR (5)2x10x2'-0" OR (6)2x8x2'-0", SEE 2/S1

• 1" ø GALV. PIPE LOCATIONS-TYPICAL

APPROVED
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
AC ____ FLS ____ CS GF
APPL NO 68145 DATE 5/13/96

REGISTERED PROFESSIONAL ENGINEER DAVID C. SCHLUETER No. 2569 STRUCTURAL STATE OF CALIFORNIA

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 PLYWOOD TO BE CUT PERPENDICULAR TO THE FACE GRAIN.
5. VENT AREA REQUIRED = ($\frac{3600}{1500}$)=6.4 SF
   VENT AREA PROVIDED = 6.67 SF
6. PER THE CONTRACT OF THIS PROJECT-THE BUILDING PAD ~~MUST BE A MINIMUM OF 30'x50' AND~~ SHALL NOT EXCEED 6" OUT OF LEVEL IN ANY DIRECTION.

~~NOTE: PER THE CONTACT FOR THIS PROJECT THE BUILDING PAD MUST BE 30' x 50'. THE PAD SHALL NOT BE MORE THAN 6" OUT OF LEVEL IN ANY DIRECTION.~~

SILL RESTRAINT:

ON SOIL: 1"ø GALV PIPE W/ 12" MIN PENETRATION BELOW SOIL SURFACE @ 10'-0" OC. DRILL SILL 1 1/4" MAX. PIPE MAY BE DRIVEN MAX 45° ANGLE TO VERTICAL.

ON A/C PAVING: 1"ø GALV PIPE W/ 12" MIN PENETRATION BELOW PAVING SURFACE @ 10'-0" OC. DRILL SILL 1 1/4" MAX OR 20d NAILS THRU SILL ℄ @ 32" OC

ON CONC PAVING: HILTI DS 82-P10 THRU SILL ℄ @ 4'-0" OC.

A/S1 FOUNDATION PLAN
1/4" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 320
DATE 4/9/97

FOUNDATIONS:

ALL FOUNDATION MATERIALS IN CONTACT WITH THE GROUND SHALL BE PRESSURE TREATED 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 1995 CALIFORNIA BUILDING CODE. ALL MATERIAL FOR USE IN GROUND CONTACT SHALL BE STAMPED "FOR GROUND CONTACT" (LP22). ALL MATERIAL NOT USED IN GROUND CONTACT SHALL BE H.F.#2 OR'D.F.#2 FOR ABOVE GROUND USE. THE IN-PLANT INSPECTOR SHALL VERIFY THAT ALL PRESSURE TREATED FOUNDATION MATERIAL IS CUT FROM AWPB STAMPED STOCK AND THAT ALL CUTS AND HOLES ARE RETREATED PER SPECIFICATIONS. LP-2 AND LP-22 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.

WOOD: 50 PSF FLOOR LIVE LOAD

24 x 40
RELOCATABLE
CLASSROOM

American Modular Systems

REGISTERED PROFESSIONAL ENGINEER DAVID T. ROLFE No. 2837 Exp 6/98 STRUCTURAL STATE OF CALIFORNIA

CUSTOMER:

FOUNDATION PLAN, NOTES, SECTIONS AND DETAILS
WOOD FOUNDATION; 50 PSF

DATE: MARCH 3, 1997
SCALE: AS NOTED
DRAWN BY: KDT
DESIGNED BY: MDB
CHECKED BY: BJR
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
△			△		
△			△		
△			△		
△			△		

PROJECT No. 97023

SHEET No. S1

K:\97023\ACAD\STRUCS1 2-10-97 2:33:20 pm EST

AGENCY APPROVAL DSA# 02-121945
39-50

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION
-		
-		
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PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
DETAILS & NOTES 50#

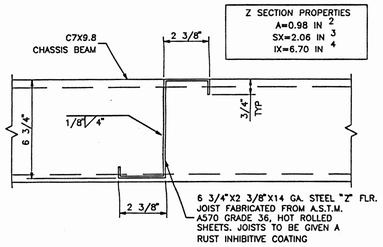
DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.
S1

DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 11/28/2023 9:11:51 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK8V.rvt



1/S2 DETAIL
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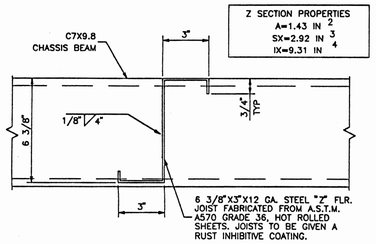

1A/S2 DETAIL
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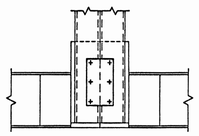
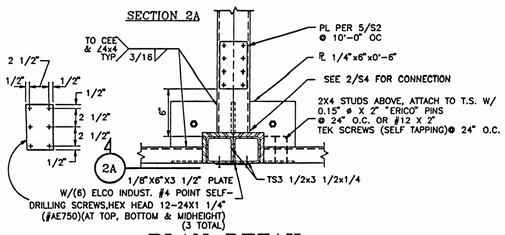
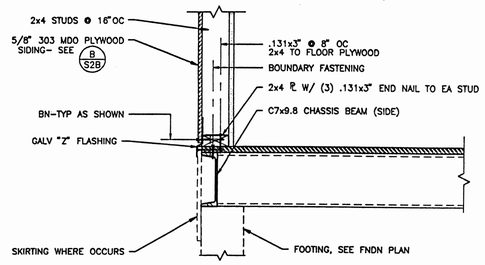


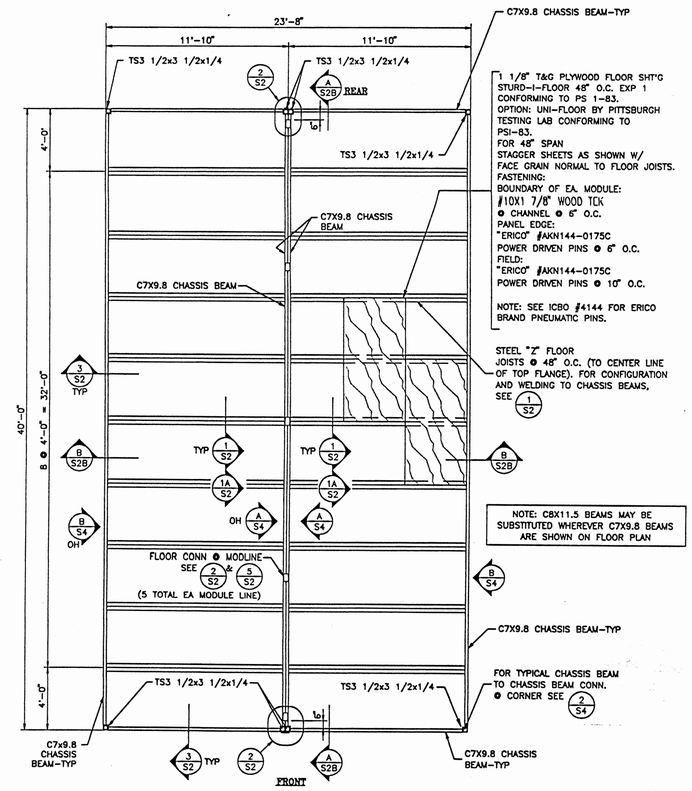
SECTION 2A



2/S2 PLAN DETAIL
NO SCALE

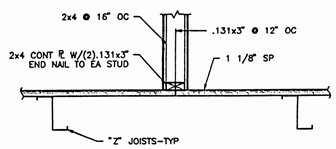


3/S2 DETAIL
1 1/2" = 1'-0"

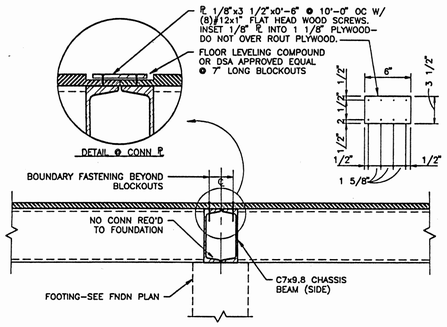


NOTES:
1. SEE SHEET S4 FOR TYPICAL WALL FRAMING.

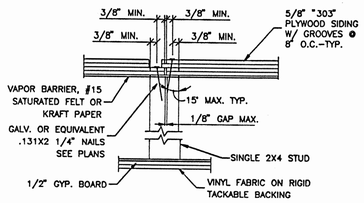
A/S2 FLOOR FRAMING PLAN
1/4" = 1'-0"



TYP INTERIOR NON-BEARING WALL BASE
6/S2 DETAIL
1" = 1'-0"



5/S2 DETAIL
1 1/2" = 1'-0"



TYPICAL SIDING JOINT
4/S2 DETAIL
NO SCALE

APPROVED
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
AC ____ F/LS ____ SS ____
APPL. NO. 68145 DATE 5/13/98

DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
P C 328
SS
DATE 4/9/97

REGISTERED PROFESSIONAL ENGINEER
DAVID Q. SCHLUETER
No. 2569
STRUCTURAL
STATE OF CALIFORNIA

50 PSF FLOOR LIVE LOAD

24 x 40
RELOCATABLE
CLASSROOM

American Modular Systems

REGISTERED PROFESSIONAL ENGINEER
DAVID V. PRAYLINO
No. 2637
Exp: 9/00
STRUCTURAL
STATE OF CALIFORNIA

CUSTOMER:

FLOOR FRAMING PLAN
AND DETAILS
50 PSF FLOOR LOAD

DATE: MARCH 3, 1997
SCALE: AS NOTED
DRAWN BY: KDT
DESIGNED BY: MDB
CHECKED BY: BJR
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
△			△		
△			△		
△			△		
△			△		

PROJECT No. 97023

SHEET No. S2

K:\97023\ACAD\STRUS S2 2-10-97 3:21:18 pm EST

FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK8V.rvt

DATE PLOTTED: 11/28/2023 9:11:51 AM

AGENCY APPROVAL DSA# 02-121945
39-50

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION
-		-
-		-

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PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

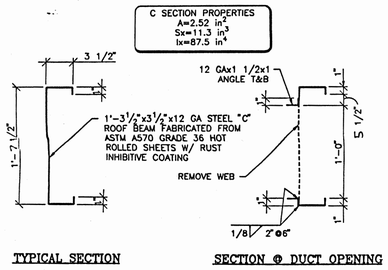
SHEET TITLE
FLOOR FRAMING PLAN & BUILDING SECTIONS

DRAWN BY: XXXXXX JOB NUMBER: 23219

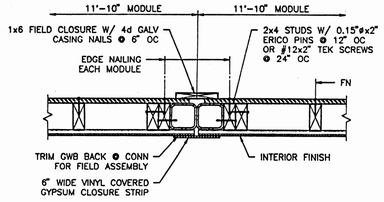
SHEET NO.
S2

DATE: DECEMBER 5, 2023

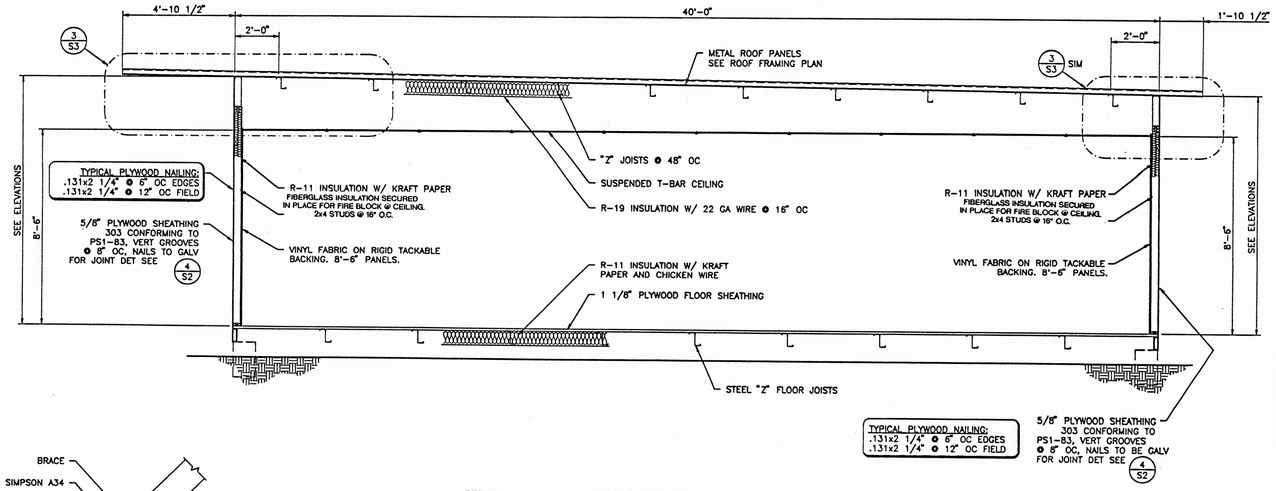
CONSTRUCTION DOCUMENTS



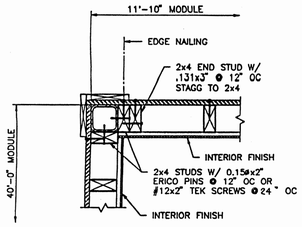
1 S2B DETAIL
1 1/2" = 1'-0"



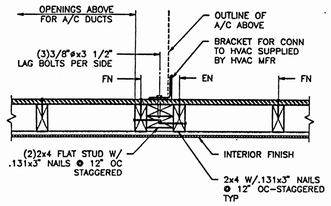
WALL FRAMING
2 S2B PLAN DETAIL
1 1/2" = 1'-0"



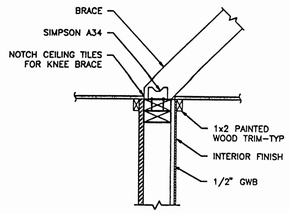
A S2B TYPICAL LONGITUDINAL SECTION
3/8" = 1'-0"



WALL FRAMING
3 S2B PLAN DETAIL
1 1/2" = 1'-0"

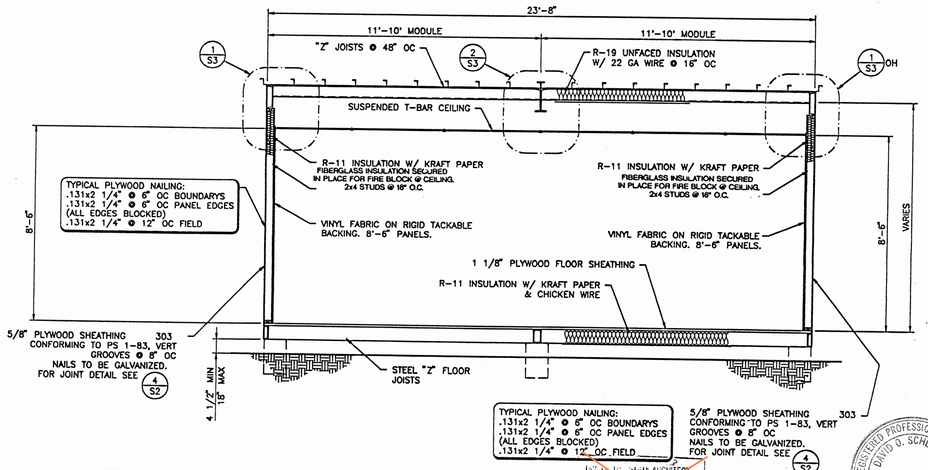


WALL FRAMING
4 S2B PLAN DETAIL
1 1/2" = 1'-0"



WALL FRAMING
7 S2B DETAIL
1 1/2" = 1'-0"

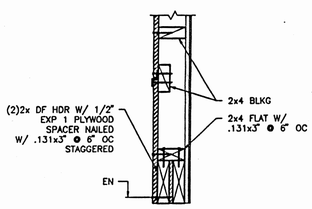
APPROVED
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
AC ___ FLS ___ SS 6
APPL. NO. 68145 DATE 5/13/98



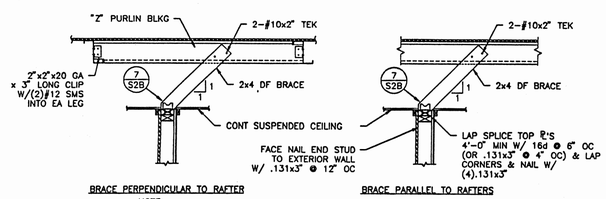
B S2B TYPICAL TRANSVERSE SECTION
3/8" = 1'-0"

APPROVED
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
AC ___ FLS ___ SS PC 28
DATE 4/9/97

REGISTERED PROFESSIONAL ENGINEER DAVID O. SCHLUETER No. 2569 STRUCTURAL STATE OF CALIFORNIA



WALL FRAMING
5 S2B DETAIL
1 1/2" = 1'-0"



NOTE:
TOP ℞ MUST BE BRACED @ 7'-9" MIN BY EITHER AN INTERSECTING WALL OR WITH A 2x4 BRACE TO THE RAFTERS.

WALL FRAMING
6 S2B DETAIL
NO SCALE

24 x 40
RELOCATABLE
CLASSROOM

American Modular Systems

REGISTERED PROFESSIONAL ENGINEER BRIAN J. RIVERS No. 12837 Exp. 9/98 STRUCTURAL STATE OF CALIFORNIA

CUSTOMER:

BUILDING SECTIONS AND WALL DETAILS

DATE: MARCH 3, 1997
SCALE: AS NOTED
DRAWN BY: KDT
DESIGNED BY: MDB
CHECKED BY: BJR
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
△			△		
△			△		
△			△		
△			△		

PROJECT No. 97023

SHEET No. S2B

S2B 2-10-97 4:16:49 pm EST

FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK8V.rvt

DATE PLOTTED: 11/28/2023 9:11:51 AM

AGENCY APPROVAL DSA# 02-121945
39-50

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION
-		
-		

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PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

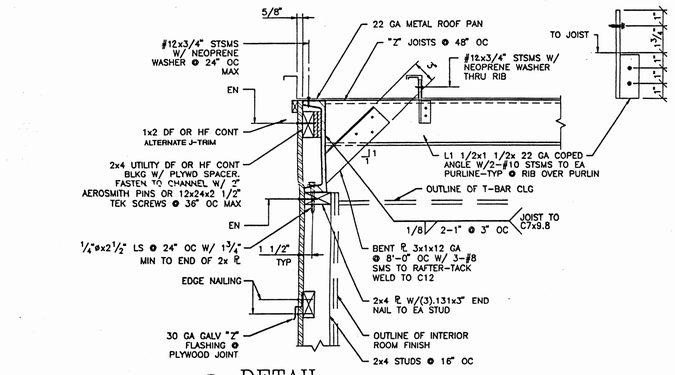
SHEET TITLE
BUILDING SECTIONS AND WALL DETAILS

DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.
S2B

DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS



1 S3 DETAIL
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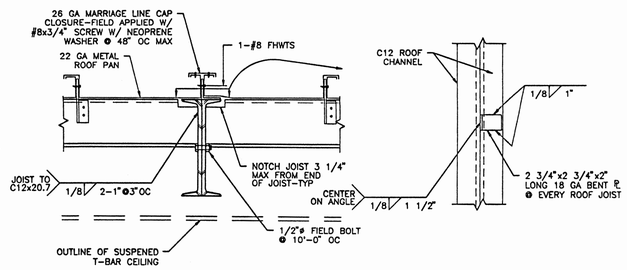
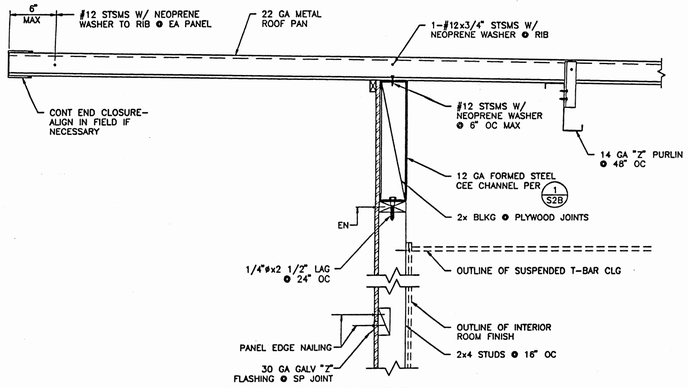
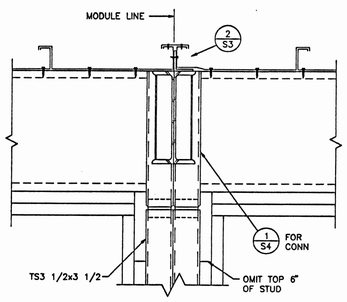


2 S3 DETAIL
NO SCALE



(2'-0" OVERHANG DETAIL SIMILAR)
3 S3 5'-0" OVERHANG DETAIL
NO SCALE



4 S3 DETAIL
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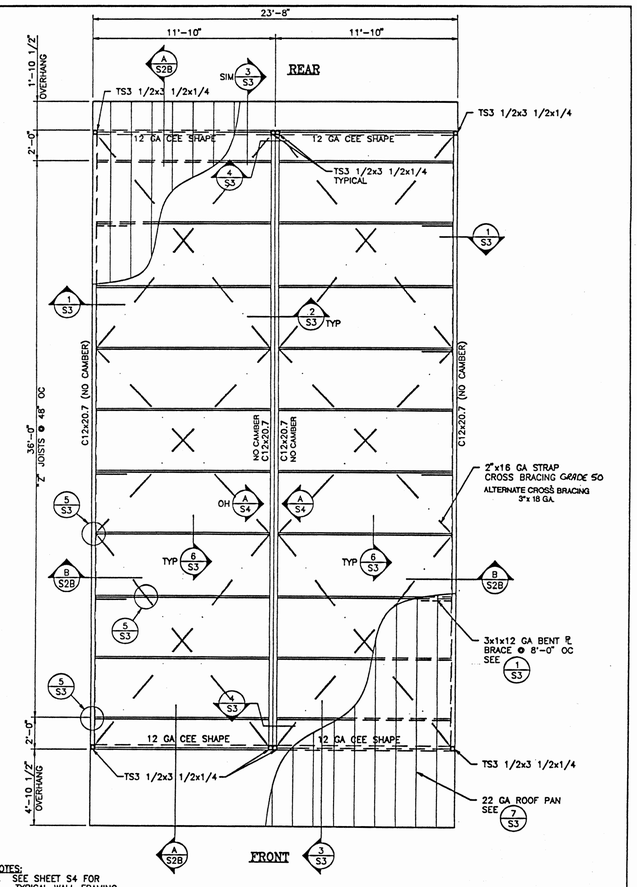
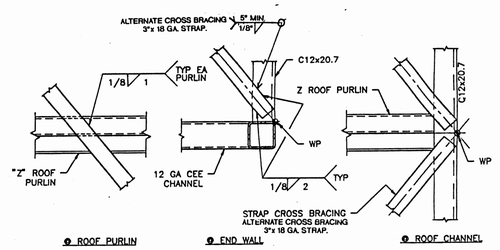
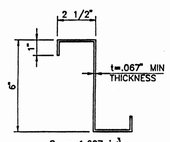


NOTES:
1. SEE SHEET S4 FOR TYPICAL WALL FRAMING.

A S3 ROOF FRAMING PLAN
1/4" = 1'-0"



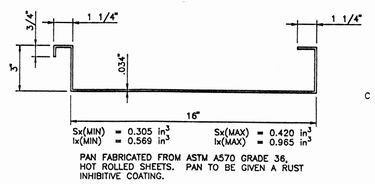
5 S3 CROSS BRACING DETAIL
1 1/2" = 1'-0"



Sx = 1.607 in³
Ix = 4.944 in⁴

JOIST FABRICATED FROM ASTM A570 GRADE 36, HOT ROLLED SHEETS. JOISTS TO BE GIVEN A RUST INHIBITIVE COATING.

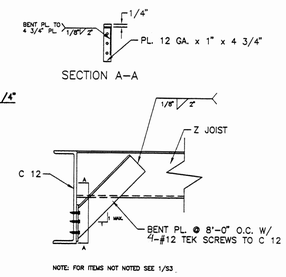
6 S3 14 GA ROOF PURLIN DETAIL
3" = 1'-0"



Sx(MIN) = 0.305 in³ Sx(MAX) = 0.420 in³
Ix(MIN) = 0.569 in⁴ Ix(MAX) = 0.965 in⁴

PAN FABRICATED FROM ASTM A570 GRADE 36, HOT ROLLED SHEETS. PAN TO BE GIVEN A RUST INHIBITIVE COATING.

7 S3 22 GA ROOF PAN DETAIL
3" = 1'-0"



8 S3 ALT. BRACE CONNECTION DETAIL
N.T.S.

APPROVED
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
AC ___ EAB ___ BB GF
APPL. NO. 98145 DATE 5/13/98

APPROVED
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
PC 128
DATE 4/9/97 SS DR

REGISTERED PROFESSIONAL ENGINEER DAVID O. SCHLUETER No. 2569 STRUCTURAL STATE OF CALIFORNIA

24 x 40
RELOCATABLE
CLASSROOM

American Modular Systems

REGISTERED PROFESSIONAL ENGINEER DAVID O. SCHLUETER No. 2637 Exp. 9/96 STRUCTURAL STATE OF CALIFORNIA

CUSTOMER:

ROOF FRAMING PLAN AND DETAILS

DATE: MARCH 3, 1997
SCALE: AS NOTED
DRAWN BY: KDT
DESIGNED BY: MDB
CHECKED BY: BJR
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

PROJECT No. 97023

SHEET No. S3

S3 2-27-97 9:41:11 am EST

FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK6V.rvt

DATE PLOTTED: 11/28/2023 9:11:51 AM

AGENCY APPROVAL DSA# 02-121945
39-50

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION
-		
-		

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LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

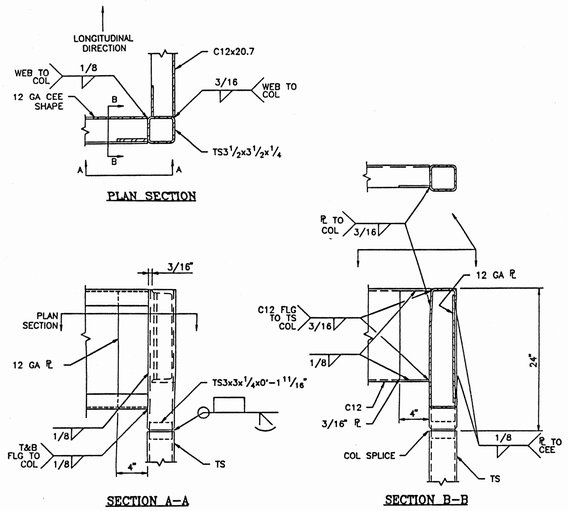
MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
ROOF FRAMING PLAN & DETAILS

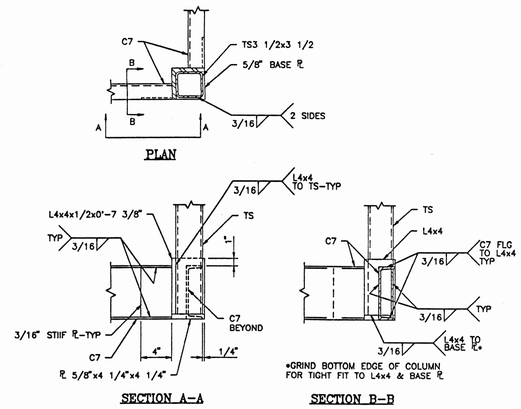
DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.
S3
DATE: DECEMBER 5, 2023

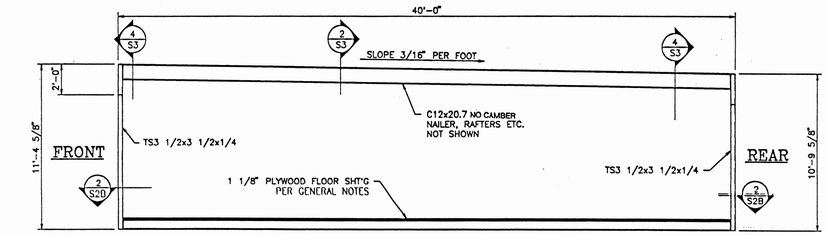
CONSTRUCTION DOCUMENTS



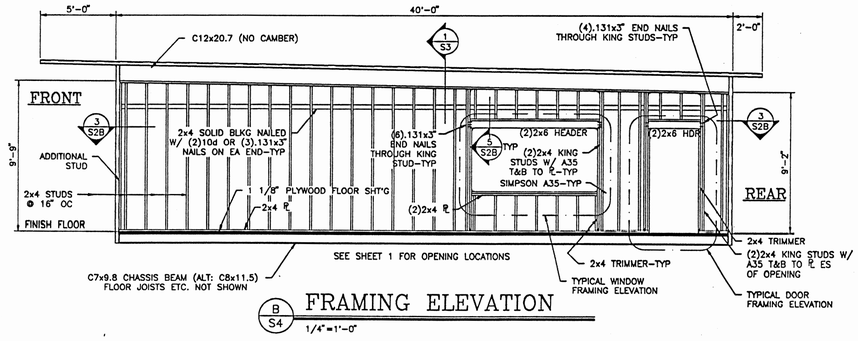
TOP CONNECTION DETAIL
1 / S4 — 1 1/2" = 1'-0"



BOTTOM CONNECTION DETAIL
2 / S4 — 1 1/2" = 1'-0"

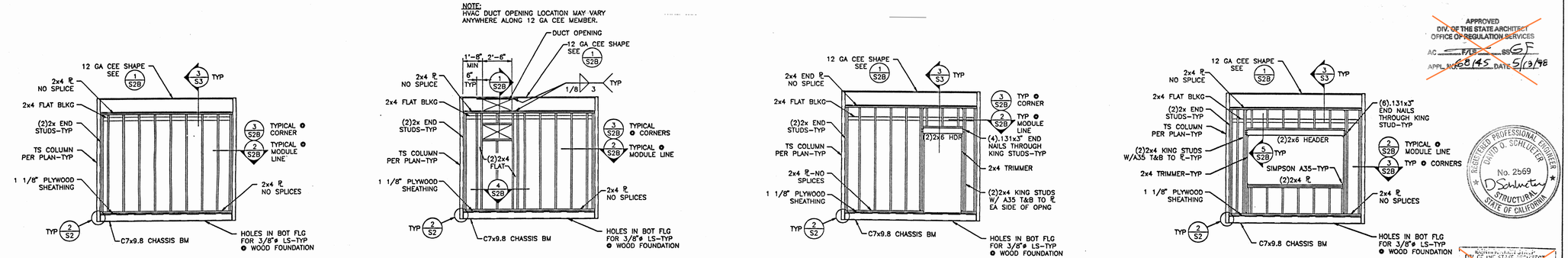


A / S4 FRAMING ELEVATION
1/4" = 1'-0"



B / S4 FRAMING ELEVATION
1/4" = 1'-0"

NOTE:
HVAC DUCT OPENING LOCATION MAY VARY ANYWHERE ALONG 12 GA CEE MEMBER.



C / S4 SOLID END WALL ELEVATION
1/2" = 1'-0"

D / S4 HVAC END WALL ELEVATION
SEE SHEET 1 FOR OPENING LOCATION
1/2" = 1'-0"

E / S4 DOOR END WALL ELEVATION
SEE SHEET 1 FOR OPENING LOCATION
1/4" = 1'-0"

F / S4 WINDOW END WALL ELEVATION
SEE SHEET 1 FOR OPENING LOCATION
1/2" = 1'-0"

24 x 40
RELOCATABLE
CLASSROOM

American Modular Systems

REGISTERED PROFESSIONAL ENGINEER DAVID J. ROTHWELL No. 1837 Exp. 6/99 STRUCTURAL STATE OF CALIFORNIA

CUSTOMER:

FRAMING ELEVATIONS AND DETAILS

DATE: MARCH 3, 1997
SCALE: AS NOTED
DRAWN BY: KDT
DESIGNED BY: MDB
CHECKED BY: BJR
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

PROJECT No. 97023

SHEET No. S4

G:\96187\ACAD\STRU\S4 1-3-97 4:37:19 pm EST

FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK6V.rvt

DATE PLOTTED: 11/28/2023 9:11:51 AM

AGENCY APPROVAL DSA# 02-121945
39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION
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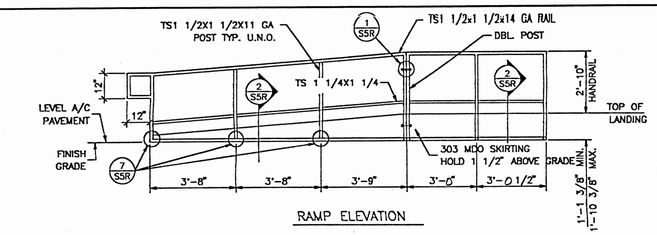
SHEET TITLE
FRAMING ELEVATIONS & DETAILS

DRAWN BY: XXXXXX JOB NUMBER: 23219

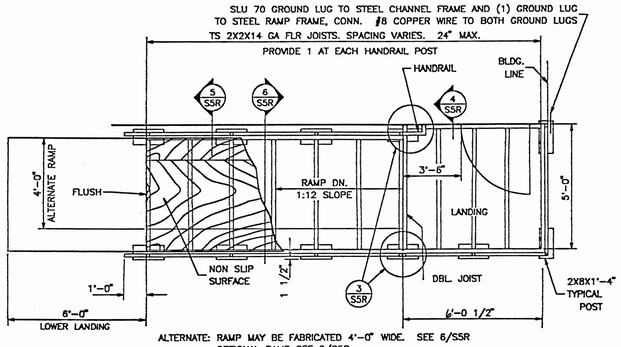
SHEET NO.
S4

DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS



RAMP ELEVATION

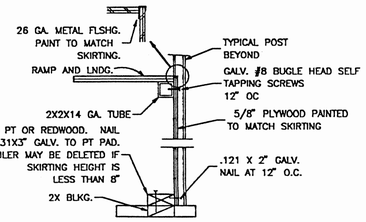


ALTERNATE: RAMP MAY BE FABRICATED 4'-0" WIDE. SEE 6/S5R
OPTIONAL RAMP SEE 8/S5R

RAMP PLAN

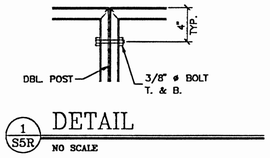
NOTE: RAMP & LANDING TO BE FABRICATED IN SECTIONS (2 MIN) FOR MOVING

A/S5R RAMP
3/8"=1'-0"

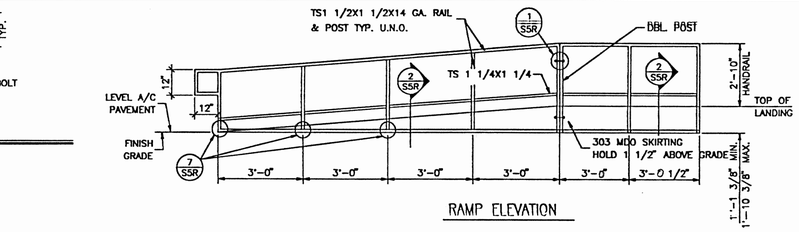


NOTE: FIT PLYWOOD WITHIN 1" MAX OF SOIL_PT PADS AND FRAMING

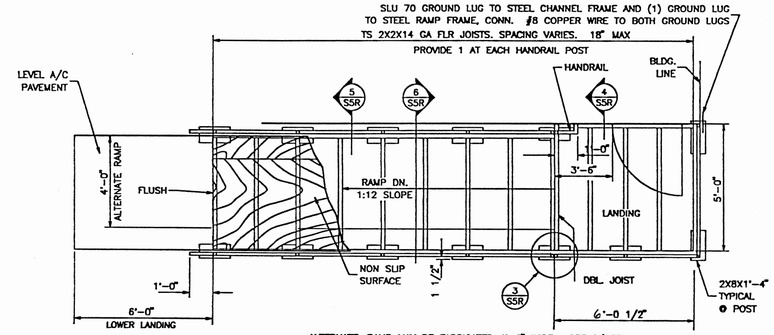
2/S5R RAMP SKIRT DETAIL
NO SCALE



1/S5R DETAIL
NO SCALE



RAMP ELEVATION

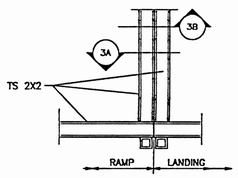


ALTERNATE: RAMP MAY BE FABRICATED 4'-0" WIDE. SEE 6/S5R

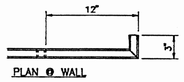
RAMP PLAN

NOTE: RAMP & LANDING TO BE FABRICATED IN SECTIONS (2 MIN) FOR MOVING

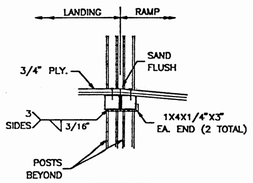
8/S5R RAMP– OPTIONAL (14 GA POSTS)
3/8"=1'-0"



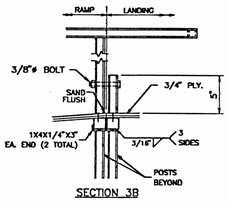
PLAN



PLAN @ WALL



SECTION 3A



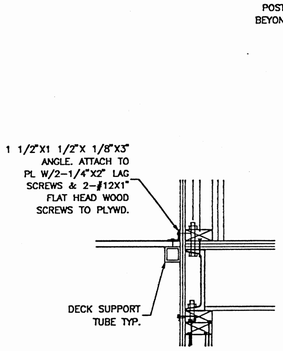
SECTION 3B

ENTRY RAMP AND LANDING SPECIFICATIONS

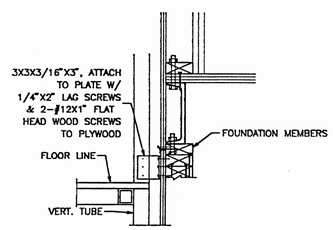
EACH BUILDING SHALL HAVE A RAMP AND LANDING TO CONFORM TO TITLE 24 CCR SECTIONS 1006 AND 1007. THE RAMP AND LANDING STRUCTURES INCLUDING HANDRAIL AND WHEEL GUIDES ARE TO BE PREFABRICATED METAL IN SECTIONS THAT ARE DEMOUNTABLE FOR MOVING AND REINSTALLATION AT A NEW SITE.
DESIGN SHALL BE SUCH THAT HEIGHT ADJUSTMENT CAN BE MADE AT THE INSTALLATION SITE. TUBING SHALL BE STEEL CONFORMING TO ASTM A500 GRADE B. THE RAMP SURFACE SHALL BE 3/4" MARINE GRADE PLYWOOD. RAMP AND LANDING SHALL HAVE A NON-SKID SURFACE FINISH APPLIED. NON-SKID FINISH SHALL BE AMCOE GRIP II MANUFACTURED BY AMERICAN CHEMICAL CO. OR EQUIVALENT. ALL RAMP SURFACES SHALL BE PAINTED AS INDICATED IN SECTION 3.3.19. RAMPS SHALL HAVE HANDRAILS ON BOTH SIDES. WALL MOUNTED HANDRAILS SHALL BE OF SIMILAR CONSTRUCTIONN TO THE INTEGRAL RAMP HANDRAIL.
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

FLOOR DECKING:
3/4" MARINE EXT. APA 48/24 PLYWOOD W/ NON-SKID SURFACE. (SEE ALTERNATE) DECK SURFACES SHALL BE SEALED ON ALL SIDES. FASTENED TO STEEL FLOOR MEMBERS WITH #10-24 X 1 1/4" LONG PLY-METAL TYPE SCREWS @ 12" O.C.
ALT. FLOOR DECKING:
1. 11 GA SHEET METAL WITH NON-SKID SURFACE.

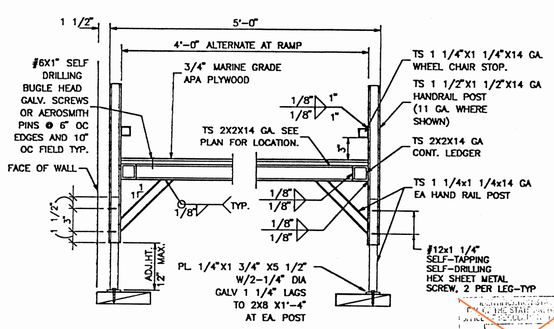
GROUNDING OF BUILDING COMPONENTS:
CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING NECCESSARY CONNECTORS TO GROUND THE METAL PORTIONS OF THE BUILDING (I.E. FRAME, RAMP, ETC.) GROUNDING ROD, WIRES AND TESTING SHALL BE PROVIDED BY OTHERS AND MEET THE REQUIREMENTS OF I.R. #8-1 ISSUED BY DSA.



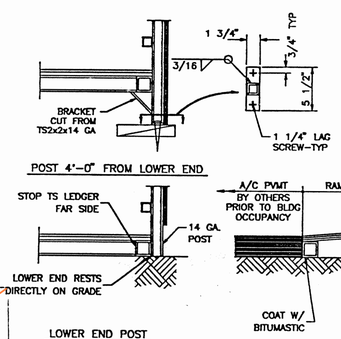
4/S5R LANDING ATTACHMENT DETAIL
NO SCALE



5/S5R RAMP CONNECTION DETAIL
NO SCALE



6/S5R HANDRAIL AND RAMP DETAIL
NO SCALE



LOWER END POST

7/S5R DETAIL
NO SCALE

24 x 40
RELOCATABLE
CLASSROOM

American Modular Systems

CUSTOMER:

RAMP PLAN, ELEVATIONS AND DETAILS

DATE:	MARCH 3, 1997
SCALE:	AS NOTED
DRAWN BY:	KDT
DESIGNED BY:	MDB
CHECKED BY:	BJR
SERIAL NO.	

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

PROJECT No. 97023

SHEET No. S5R.1

K:\97023\ACAD\STRU\SSR 4-7-97 3:02:16 pm EST

AGENCY APPROVAL DSA# 02-121945
39-50

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

PROFESSIONAL STAMP

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MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
RAMP PLAN, ELEVATION & DETAILS

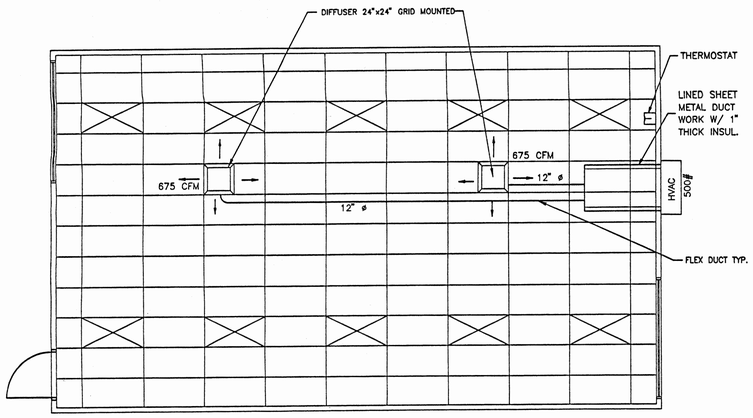
DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.
S5R.1

DATE: DECEMBER 5, 2023

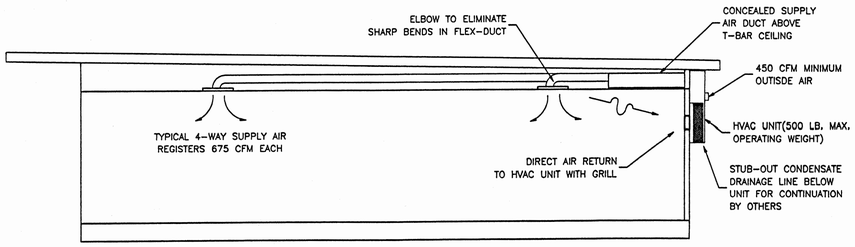
CONSTRUCTION DOCUMENTS

DATE PLOTTED: 11/28/2023 9:11:51 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK6V.rvt



HEAT/SUPPLY AIR DUCT LAYOUT

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



HEAT/SUPPLY AIR DUCT CROSS SECTION

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

DUCT SUPPORT
Flex duct to be supported with 1-1/2" wide x 26 ga. galv. strap @ max 6'-0" o.c. Attach to rafter W/2 #8 SMS @ each end.
Supply air plenum to be supported with 1-1/2" wide x 26 ga. galv. straps min. 2 per plenum.
Supply air box and diffusers to be supported with (2) 12 ga. hanger wires to box @ opposite corners.
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 W/2 #8 SMS.

THESE DRAWINGS COMPLY
WITH THE ENERGY CONSERVATION REQUIREMENTS
OF TITLE 24 OF THE STATE OF CALIFORNIA

GENERAL NOTES
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 ARI Standard 240-77.
   Reference Brands: BARD WH42A-XXXXXX
   MARVAIR AVP 42 HPA-08S

   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. Duckwork.
   A.) Construct all ductwork of galvanized sheet metal in accordance with U.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 5'0" 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 5' 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 ducttboard, 1" thick, and Micro-aire, TYPE 475.
   Non-metallic ductwork shall conform to NFPA 90-A and SMACNA Class 1 rating.
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 max. 15"x15" neck, steel, rigid 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 (Min) 4-way throw air diffusers as manufactured Carnes, Titus, Hart and Cooley, Metalaire, Shoemaker, Barber-Coleman or Krueger commercial grade grills and registers
6. Air conditioning controls.
   Thermostat: Provide electronic programmable thermostat. Thermostat shall have the following functions.
   A.) 5 and 2 weekday/weekend programming with 4 separate time/temperature setting for 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.
   Provide locking clear thermostat cover with thermostat cover with access hole for program override. White Rodgers 1F92.
7. Thermal insulation
   A.) Roof Insulation: R-19 Unfaced.
   B.) Walls Insulation: R-11 Kraft Faced.
   C.) Floors Insulation: R-11 Kraft Faced.
   Flame spread and smoke development shall conform to California Building Code sec. 707.
8. Factory-made air ducts. Factory-made air ducts shall be approved for the use intended or shall conform to the requirements of U.M.C. Standard No. 6-1. Each portion of a factory-made air duct system shall be identified by the manufacturer with a label or other suitable identification indicating compliancewith U.M.C. Standard No. 6-1 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 UMC STD. 6-1.

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DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
AC ____ FLS ____ SS GF
APPL NO. 28145 DATE 3/12/96

T.E.F. NO.
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL PC 328
AC ____ FLS 01 SS 02
DATE 4/9/97
3" STANDING SEAM ROOF

REGISTERED PROFESSIONAL ENGINEER
DIETTO O. SCHNEIDER
No. 2569
D Schneider
STRUCTURAL
STATE OF CALIFORNIA

24 X 40
RELOCATABLE
CLASSROOMS

American Modular Systems

CUSTOMER:

MECHANICAL PLAN & NOTES

DATE: 4-8-97
SCALE: NONE
DRAWN BY: R.S.
CHECKED BY:
CHECKED BY:
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION
1			1		
2			2		
3			3		
4			4		

PROJECT No.

SHEET No. M 1

AGENCY APPROVAL DSA# 02-121945
39-50
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION
1		
2		
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PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
MECHANICAL PLAN, DETAILS & NOTES

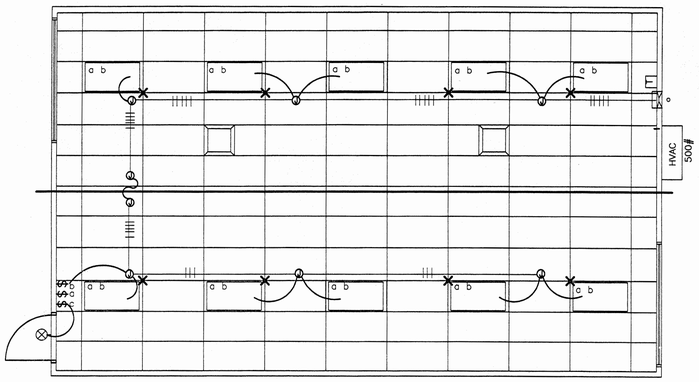
DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.
M1

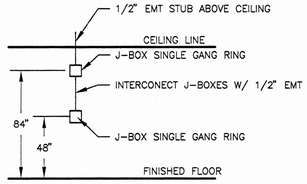
DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 11/28/2023 9:11:51 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK8V.rvt

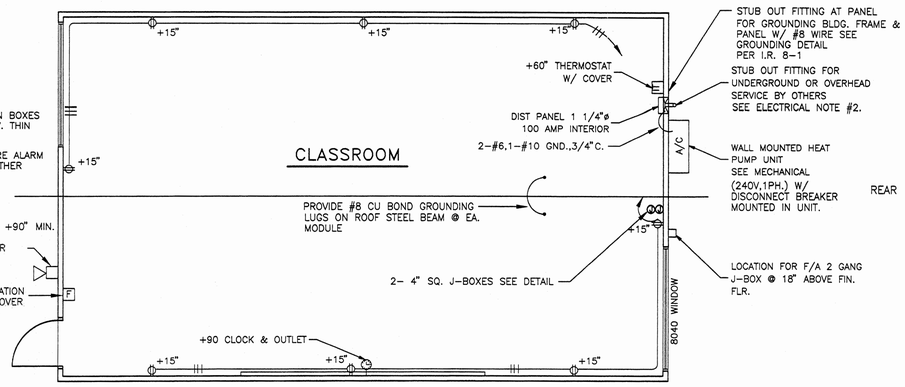


1 / E1 **LIGHT FIXTURE PLAN**
1/4" = 1'-0"



SPECIAL J-BOX INSTALLATION DETAIL

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 ofmanufacture. 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. If 60 degrees C. wire is to be used in this installation, calculations demonstrating ampacity be provided on the drawing.



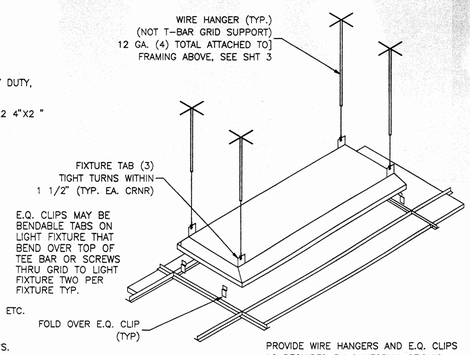
2 / E1 **ELECTRICAL PLAN**
1/4" = 1'-0"

FIRE ALARM
Junction boxes – Galvanized sheet metal, square or rectangular with blank covers. Locate one box at rear of building near main electrical panel at +18– above finish floor for future connection.
Covers – Install gasketed, metal, waterproof, finish covers at exterior locations. Install finish covers at interior locations.

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 anency

STANDARD ELECTRICAL SYMBOLS

- FLUORESCENT LIGHTING FIXTURE – SURFACE MOUNTED.
- FLUORESCENT LIGHTING FIXTURE – RESCESSED.
- FLUORESCENT LIGHTING FIXTURE – WALL MOUNTED (EXTERIOR)
- INCANDESCENT LIGHTING FIXTURE – WALL MOUNTED (INTERIOR).
- DUPLEX WALL CONVENIENCE OUTLETS +15".
- SINGLE POLE LIGHT SWITHCES +48", HUBBELL PREMIUM, BRYANT HEAVY DUTY, OR LEVITON SPECIFICATIONS GRADE.
- LECTRICAL CROSSOVER J–BOXES ABOVE T–BAR CEILING #1–4"X1 ",#22 4"X2 "
- WALL CLOCK OUTLET WITH POWER OUTLET +84".
- a SWITCH SUBSCRIPTS – a=DEVICE CONTROLLED.
- 15 AMP DUPLEX RECEPTACLE +15". HOSPITAL GRADE.
- JUNCTION BOX – SIZE AND TYPE AS REQUIRED.
- PANELBOARD – SEE SCHEDULE.
- TERMINAL CABINET – SIZE AND TYPE AS NOTED.
- CONDUIT CONCEALED IN CEILING OR WALL.
- CONDUIT CONCEALED BELOW FLOOR OR GRADE.
- HOMERUN TO RESPECTIVE PANEL TO TERMINAL.
- INDICATES 1#14 (GREEN) GROUND WIRE, OTHER SIZES AS INDICATED.
- NOTE BRANCH CIRCUIT WITHOUT FURTHER DESIGNATION IS A 2#14 WIRE CIRCUIT, FOR MORE THAN 2#14 WIRES AS FOLLOWS, 3#14, 4#14 ETC. FOR OTHER SIZES AS FOLLOWS, 3#10, 4#6 ETC.
- A FIXTURE IDENTIFICATION – LETTER INDICATES TYPE.
- N.I.E.S. ABBREV. FOR NOT IN ELECTRICAL SECTION OF THESE PLANS AND SPEC'S.
- MT ABBREV. FOR EMPTY CONDUIT WITH POLY PULL CORD.
- FUSED DISCONNECT SWITCH SIZE AS REQUIRED. PROVIDE FUSES AS RECOMMENDED BY EQUIPMENT SUPPLIER.
- [W.E.F.] WALL MOUNTED EXHAUST FAN N.I.E.S. CONNECT AS REQUIRED.
- 50 AMP 250 VOLT RANGE RECEPTACLE.
- F FIRE ALARM STATION – OUTLET ONLY, 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +48"CENTERLINE
- FIRE ALARM HORN – OULET ONLY – 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +90" MIN. AND NOT LESS THAN 6" BELOW FINISHED CEILING.
- FIRE ALARM VISUAL ALARM– OUTLET ONLY – 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER BOTTOM +80". A.F.F. BUT NO GREATER THAN +96". IF CEILING MOUNTED PER NFPA72 TABLE 6–4.4.1(b).
- SPEAKER– OUTLET ONLY – 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +84"
- INTERCOM TELEPHONE– OUTLET ONLY– 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +48"
- M FIRE ALARM MINI HORN – OULET ONLY – 4" SQ. BOX W/ SINGLE DEVICE RING AND COVER +90" MIN. AND NOT LESS THAN 6" BELOW FINISHED CEILING.



SUPPORT DETAIL

PROVIDE WIRE HANGERS AND E.Q. CLIPS AS REQUIRED BY CALIFORNIA SEISMIC REGULATIONS CBC 2501.A.5 & IR. 47–4

SYMBOL	DESCRIPTION	WATTS	MANUFACTURER
	2'X4' FLOURESCENT DROP IN FIXTURE, ACRYLIC PRISMATIC LENS. ENERGY SAVING BALLAST. (4)35 WATT TUBES, WT. 27 LBS.	156 W	CRESCENT 24TF440DLA
	FLOURESCENT SURFACE MOUNTED EXTERIOR LIGHT WITH IMPACT RESISTANT ENCLOSURE. .125 THICK CLEAR PRISMATIC ONE PIECE LENS W/ NEOPRENE GASKET & "POSIGRIP" STAINLESS STEEL SCREWS.	(2) 7W TT 2700 K	KENALL 3714 OR LITHONIA 202 2/7PL LP
	INCANDESCENT WALL MOUNTED	150W	PROGRESS P3011x30"

SEE TYPICAL CLASSROOM LAYOUT FOR LOCATIONS OF ALL DEVICES.
FIXTURE MOUNTING SHALL COMPLY WITH CALIFORNIA SEISMIC REGULATIONS.

FIRE ALARM SYSTEM

1. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE, ARTICLE 760 &CA. FIRE CODE ART. 10.
2. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY THE DIVISION OF THE STAT ARCHITRCT.
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.

GENERAL NOTES

1. GROUNDING ELECTRODE CONDUCTOR SIZED PER CEC 250–94 & 95.
2. ALLOW FOR 12" MOVEMENT IN ANY DIRECTION IF PAD FOUNDATION IS USED.
3. PROVIDE BONDS TO BLDG. STEEL & PANEL (#8 CU)
4. PANEL TO LISTED FOR USE AS SERVICE EQUIPMENT.

FIXTURE NOTES:

1. ALL FLUORESCENT LIGHT FIXTURES SHALL HAVE ENERGY SAVING LAMPS AND BALLASTS.
2. LUMINATES/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.

ELECTRICAL

1. Electrical service drop and connections supplied by others.
2. Manufacturer to provide stub–out from back of electrical panel through the exterior wall for receiving either underground or overhead service & fitting for grounding cable.
3. 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 have adequate short circuit interrupting capacity. All buses including bus shall be copper or aluminum.
4. 2x4 Flourescent fixtures shall be steel frame, lens shall be hinged and locked in place by two locking devices. The lens diffusers shall be KHS, Inc. #KSH–12, Carolite, Inc. #C–12 or Plaskolite, Inc. #PL21A. Minimum lens thickness shall be .125 inch.
5. Flourescent ballast shall be energy saver while maintaining full light output, class "P" equipped with thermal protectors, guaranteed against failure for (2) years and be replaced from inside the fixture.
6. 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 seperable hanging clip & app'd recept.

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OFFICE OF REGULATION SERVICES
AC ____ FLS ____ SS 6F
APPL. NO. 68145 DATE 5/3/98

VOLTS: 120/240 SINGLE PHASE						PANEL: A					FEED: EXTERIOR LB		
MAIN: 100 AMP MAIN BKR.						LOCATION: INTERIOR					MOUNTING: FLUSH		
LOAD	WATTS A	WATTS B	BRK. AMP	BRK. P	CIR	A	B	CIR	BRK. P	BRK. AMP	WATTS A	WATTS B	LOAD
LIGHTS, FLUORESCENT	960		15	1	1			2	2	50	4476		A/C HVAC UNIT
LIGHTS, FLUORESCENT		960	15	1	3			4	2	50		4476	
EXTERIOR LIGHT & CLOCK	100		15	1	5			6					SPACE
DUPLEX RECEPT.		720	15	1	7			8					
DUPLEX RECEPT.	720		15	1	9			10					
SPACE					11			12					
					13			14					
					15			16					
PHASE WATTAGE	1880	1680			17			18			4476	4476	PHASE WATTAGE
TOTAL WATTS "A" LEG: 6556			TOTAL WATTS A+B=2743								TOTAL WATTS "B" LEG 6156		
TOTAL WATTS: 15455			65	AMPS		120/240V		SINGLE PHASE				100AMP BUS.	

FEEDERS: TO BE RUN BY THE DISTRICT EITHER UNDERGROUND OR OVERHEAD, SEE SITE ELEC. PLAN.

3 / E1 **ELECTRICAL DISTRIBUTION PLAN**
1/4" = 1'-0"

NOTE: THIS PAGE IS BASED ON PC264 CHANGES INCLUDE NOTE ON LIGHT DETAIL AND ADDED J–BOXES AT REAR OF CLASSROOM.

FILE NO.
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APPL.
AC____ FLS____ SS____
DATE

24 X 40
RELOCATABLE
CLASSROOMS

American Modular Systems

CUSTOMER:
RELOCATABLE CLASSROOMS AT VARIOUS SITES
LODI UNIFIED SCHOOL DISTRICT
LODI, CALIFORNIA

FLOOR PLAN & NOTES

DATE: 3–6–97
SCALE: NONE
DRAWN BY: R.S.
CHECKED BY:
CHECKED BY:
SERIAL NO.

REVISIONS

NO	DATE	DESCRIPTION	NO	DATE	DESCRIPTION

PROJECT No.

SHEET No. E 1

AGENCY APPROVAL DSA# 02-121945
39-50
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION
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-		

REGISTERED PROFESSIONAL ENGINEER DAVID D. SCHLEETER No. 2569 STRUCTURAL STATE OF CALIFORNIA

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PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
ELECTRICAL PLAN, DETAILS & NOTES

DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.
E1
DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK8V.rvt

DATE PLOTTED: 11/28/2023 9:11:51 AM

MODTECH DESIGN MT-2440-O
PC 04-101419
RELOCATABLE CLASSROOM BUILDINGS
BUILDING SIZE: 24'x40'

OFFICE OF PUBLIC SCHOOL CONSTRUCTION

BUILDING TYPE 1

STOCKPILE

190 **BUILDINGS**

BUILDING DATA

STRUCTURAL DESIGN: RIGID FRAME
TYPE OF CONSTRUCTION: V-N
WIND LOAD (EXP C): 80 MPH
FLOOR LIVE LOAD: 50 PSF
ROOF LIVE LOAD: 20 PSF

OCCUPANCY: 24'x40' CLASSROOM: E-2

BUILDING AREA:
24'x40' BUILDING – 980 SF

APPLICABLE CODES

TITLE 24, CCR, PART 2, 1998 CBC (97 UBC W/98 CA AMENDMENTS)
1997 UBC & 1998 CA AMENDMENTS (98 CBC – PART 2, TITLE 24, CCR)
1998 NEC & 1998 CA AMENDMENTS (98 CEC – PART 3, TITLE 24, CCR)
1997 UMC & 1998 CA AMENDMENTS (98 CMC – PART 4, TITLE 24, CCR)
1997 UPC & 1998 CA AMENDMENTS (98 CPC – PART 5 TITLE 24, CCR)
1997 UFC & 1998 CA AMENDMENTS (98 CFC – PART 9, TITLE 24, CCR)
1998 CA BUILDING STANDARDS CODE
TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS.

LEGEND

SYMBOL	DESCRIPTION
1/1	DETAIL (1) ON SAME SHEET AS SYMBOL
1/2	DETAIL (1) ON SHEET (2)
1	KEY NOTE (1) ON SAME SHEET AS SYMBOL
A/2	SECTION "A" ON SHEET (2)
1	REVISION/CHANGE IN DRAWING. (1) IS FIRST REVISION
CLOUD	HIGHLIGHTS CHANGED AREA
1	DOOR REFERENCE
A	WINDOW REFERENCE
EL	ELECTRICAL ITEM(S) SEE ELECTRICAL DRAWINGS
HV	HEATING/VENTILATING & AIR CONDITIONING ITEM(S) SEE MECHANICAL DRAWINGS
PLG	PLUMBING ITEM(S) SEE MECHANICAL DRAWINGS
STR	STRUCTURAL ITEM(S) SEE STRUCTURAL DRAWINGS
FIN	FINISH ITEM(S) SEE FINISH SCHEDULE
RAMP	RAMP – SEE RAMP DRAWINGS

ABBREVIATIONS

AGC = ABOVE GRADE CONCRETE
BGC = BELOW GRADE CONCRETE
DIA = DIAMETER
CLR = CLEAR
GA = GAUGE
SIM = SIMILAR
MAX = MAXIMUM
MIN = MINIMUM
NIC = NOT IN CONTRACT
NTS = NOT TO SCALE
OC = ON CENTER
OD = OUTSIDE DIAMETER
OSB = ORIENTED STRAND BOARD
ROH = ROOF OVERHANG
SIM = SIMILAR
STS = SELF TAPPING SCREW
STSMS = SELF TAPPING SHEET METAL SCREW
TYP = TYPICAL
UON = UNLESS OTHERWISE NOTED

FILE 39-50
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02 103677
AC FLS SS
DATE OCT 2 3 2001

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

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~~A3.0~~	~~EXTERIOR ELEVATIONS (DUAL PITCH) 24'X40' W/O FASCIA~~
A3.01	EXTERIOR ELEVATIONS (DUAL PITCH) 24'X40' W/O FASCIA
A4.0	INTERIOR ELEVATIONS 24'X40'
A5.0	DOOR, WINDOW, FINISH, HARDWARE SCHEDULES
A6.0	ARCHITECTURAL DETAILS (WOOD STUDS)
A6.1	ARCHITECTURAL DETAILS (WOOD STUDS)
A6.0M	ARCHITECTURAL DETAILS (METAL STUDS)
A6.1M	ARCHITECTURAL DETAILS (METAL STUDS)
~~A7.0~~	~~REFLECTED CEILING PLAN (STANDARD 2x4 LIGHTS)~~
A7.01	REFLECTED CEILING PLAN (24'X40') (10 LIGHTS)
A7.1	REFLECTED CEILING DETAILS
A8.0	SPECIFICATIONS
A8.1	SPECIFICATIONS

STRUCTURAL

F1.0	FOUNDATION PLAN (24 x 40) 50 PSF LL (WOOD)
~~F2.0~~	~~FOUNDATION DETAILS (WOOD)~~
F2.01	FOUNDATION DETAILS (WOOD)
S1.0	FLOOR FRAMING PLAN 50 PSF LL
S1.2	FLOOR FRAMING DETAILS (TYPICAL)
~~S2.0~~	~~ROOF FRAMING PLAN (DUAL PITCH) W/O FASCIA~~
S2.01	ROOF FRAMING PLAN (DUAL PITCH) W/O FASCIA
S2.1	ROOF FRAMING DETAILS (TYP.)
S3.0	STRUCTURAL ELEVATIONS & DETAILS (DUAL PITCH)
~~S4.0~~	~~WALL FRAMING (WOOD)~~
S4.0M	WALL FRAMING (METAL)
~~S5.0~~	~~WALL FRAMING DETAILS (WOOD)~~
S5.1	WALL FRAMING DETAILS (WOOD)
~~S5.0M~~	~~WALL FRAMING DETAILS (METAL)~~
S5.1M	WALL FRAMING DETAILS (METAL)

MECHANICAL

~~M1.0~~	~~MECHANICAL (HVAC) PLAN 24'X40' – 3 1/2 TON~~
M1.01	MECHANICAL (HVAC) PLAN 24'X40' – 6 TON

ELECTRICAL

~~E1.0~~	~~ELECTRICAL PLAN 24'X40'~~
E1.01	ELECTRICAL PLAN 24'X40'

RAMP

~~R1.0~~	~~RAMP/LANDING PLAN W/ 11' RAMP~~
R1.01	RAMP/LANDING PLAN W/ 12' RAMP
R1.02	RAMP/STAIRS DETAILS
~~R2.0~~	~~RAMP/STAIRS DETAILS~~
~~R3.0~~	~~RAMP/STAIRS DETAILS~~
~~R4.0~~	~~GUARDRAIL PLAN~~

FOR PERFORMANCE SPECIFICATION ITEMS

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

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

Items reviewed and accepted are as noted:

Signature of the Architect/Engineer — Date: 7/6/01

Licensee # C17067 — Exp. Date 5/31/01 — Tel. 2-9771

The Historic Building Suite 300 ph: 415-433. 0130 — GORDON H CHONG & Partners — 130 Sutter Street San Francisco CA 94104-4012

FOR PERFORMANCE SPECIFICATION ITEMS

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Signature of the Architect/Engineer — Date

Licensee — Exp. Date — Tel.

The Historic Building Suite 300 ph: 415-433. 0130 — GORDON H CHONG & Partners — 130 Sutter Street San Francisco CA 94104-4012

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MODTECH INC. CERTIFIES THAT NO ASBESTOS CONTAINING PRODUCTS OR MATERIALS WERE USED IN THE CONSTRUCTION OF ANY OF THE BUILDINGS SUPPLIED UNDER THE OFFICE OF PUBLIC SCHOOL CONSTRUCTION CONTRACTS

REVISIONS		
1		
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Electrical Engineer's Seal | Mechanical Engineer's Seal | Structural Engineer's Seal | Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 AC FLS SS DATE 11/14/01 APPROVED FOR: EXPIRES 1/1/03

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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DRAWN BY: JH DATE: 6/6/01
CHECKED BY: GS DATE: 10/22/99
MODTECH Index No.

COVER SHEET

A.0

FILE PATH: 2440-O-A-0.DWG

PROJECT NO. 200019.21
BGH PROJECT NO. 200019.31

AGENCY APPROVAL DSA# 02-121945
FILE 39-50
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION
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PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
TITLE SHEET

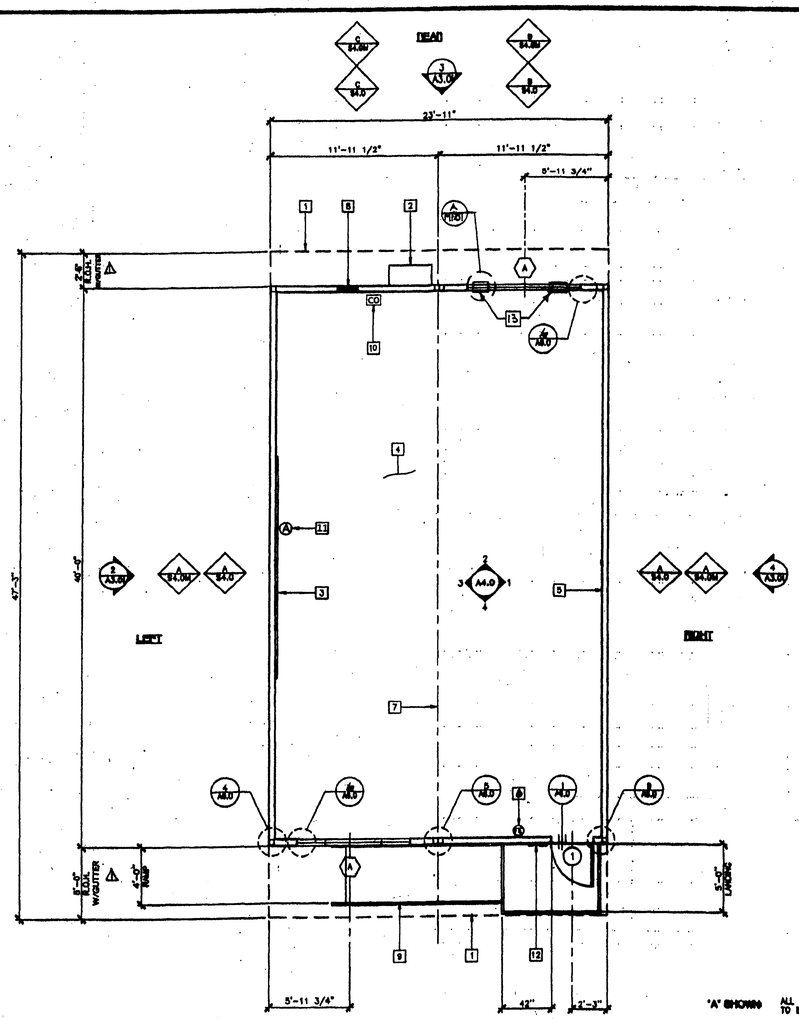
DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.
A.0

DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 11/28/2023 9:11:51 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoff(CZK8V.rvt



'A' SHOWN ALL BUILDING'S UNDER THIS CONTRACT TO BE AS SHOWN
'B' OPPOSITE

FLOOR PLAN

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

24x40

PC

CBC 1998

KEY NOTES

1. ROOF OVERHANG
2. HVAC UNIT (HV)
3. 2 - 8'x4' MARKER BOARDS (SEE SPEC'S FOR TYPE)
4. FINISH FLOORING (FN)
5. INTERIOR FINISH (FN)
6. FIRE EXTINGUISHER - 5 LBS DRY CHEMICAL WITH 2A-10BC UL RATING WALL MOUNTED BRACKET, HANDLE AT 48" AFF
7. MODLINE (M)
8. ELECTRICAL PANEL
9. RAMP/LANDING (RMP)
10. Co2 SENSOR AT +8'-0" AFF (EL)
11. INTRUSION ALARM DETECTOR AT +7'-6" AFF (EL)
12. SIGNAGE PROVIDED AND INSTALLED BY DISTRICT PRIOR TO OCCUPANCY, SEE A5.0.
13. BAROMETRIC RELIEF DAMPER (14"x14") 2:12 TOTAL. BELOW TOP OF HIGH AS POSSIBLE ON WALL. FRAMED OPENING IS 14 1/2" x 14 1/2".

NOTES

1. METAL TAG ON ALL MODULES. MECHANICALLY ATTACHED TO REAR EXTERIOR OF BUILDING SHOW D.S.A. APPLICATION NUMBER, MANUFACTURER'S NAME AND SERIAL NUMBER.
2. METAL TAG MIN. 3 1/2"X1 1/2" STAMPED METAL I.D. W/
   1. OPSC BUILDING NUMBER
   2. DESIGN WIND LOAD
   3. DESIGN ROOF LOAD
3. PROVIDE MIN. 3 1/2"X1 1/2" METAL TAG INSTALLED INSIDE THE ELECTRICAL PANEL SHOWING OPSC NUMBER AND DSA NUMBER.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 103677 AC FLS SS DATE OCT 2 3 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 102210 AC FLS SS DATE 6/14/01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 105169 AC FLS SS DATE 4-14-04

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 104490 AC FLS SS DATE AUG 2 3 2004

REVISIONS

1	11/28/23	CLARIFY OVERHANGS
2		
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Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal

Architects Seal

PC-04 101419 AC FLS SS DATE OCT 2 3 2001

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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FLOOR PLAN

DRAWN BY: dh 11/28/01
DATE:
CHECKED BY: SS
DATE: 10/22/99

A1.0

FILE PATH: 2440-0-A1-0.DWG

PROJECT NO. ~~BGH PROJECT NO. 200019.31~~ BGH PROJECT NO. 200019.31

PC-04-101419

AGENCY APPROVAL DSA# 02-121945 39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION
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PROJECT OWNER & TITLE

LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE

FLOOR PLAN 24'X40

DRAWN BY: XXXXXX JOB NUMBER: 23219

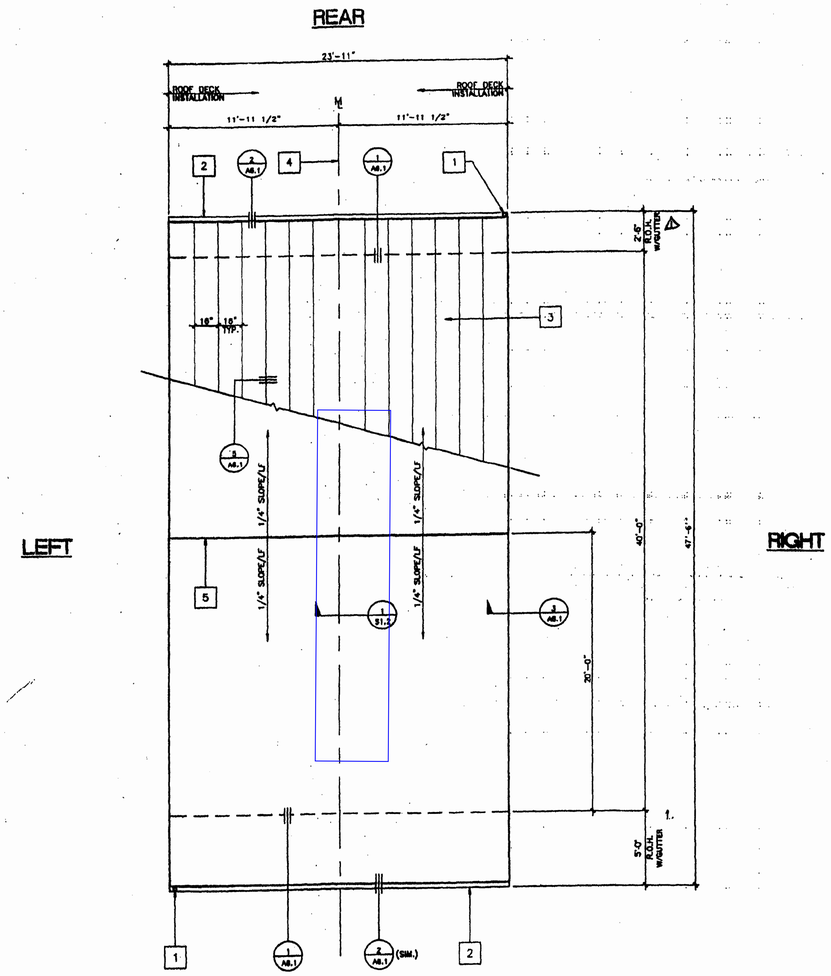
SHEET NO.

A1.0

DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 11/28/2023 9:11:51 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK6V.rvt



ROOF PLAN (DUAL SLOPE) (24'X40')

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

KEY NOTES

1. DOWNSPOUT (TYPICAL 3" X 2" X 26GA)
2. CONTINUOUS GUTTER 26GA.
3. 22GA. MIN. INTERLOCKING ROOF PANELS (TYP)
4. MODLINE
5. RIDGELINE

NOTES

1. BUILDING HOUSING GROUP E OCCUPANCIES SHALL HAVE ROOF COVERINGS AS SPECIFIED IN TABLE 15A. C.B.C. CLASS A

PC
CBC 1998

REVISED DEL. 9 ... 6m

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 105216 FLS SS 6/14/01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 103677 AC FLS SS DATE OCT 2 3 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 106169 AC FLS SS 168 DATE 4-14-04

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 104906 AC FLS SS DATE AUG 2 2006

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 10142 AC FLS SS DATE OCT 1 1 1999

REVISIONS			
1	10/19/99	CLARIFY OVERHANGS	SS
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Electrical Engineer's Seal

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Structural Engineer's Seal

Architects Seal

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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DRAWN BY:
DATE:
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DATE: 10/22/99
MODTECH WORK NO.

ROOF PLAN

A2.0

PC-04-101419 PROJECT NO. BGH PROJECT NO. 200019.31

FILE PATH: 2440-0-A2-0.DWG

AGENCY APPROVAL DSA# 02-121945
39-50

IDENTIFICATION STAMP
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PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

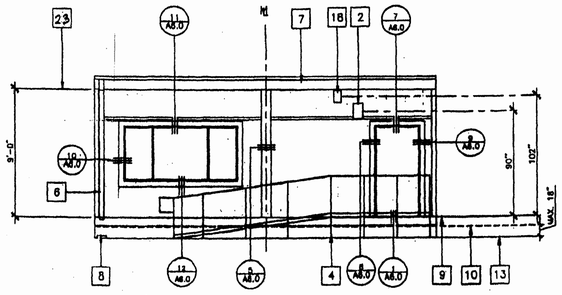
SHEET TITLE
ROOF PLAN (DUAL PITCH) 24'X40'

DRAWN BY: XXXXXX JOB NUMBER: 23219

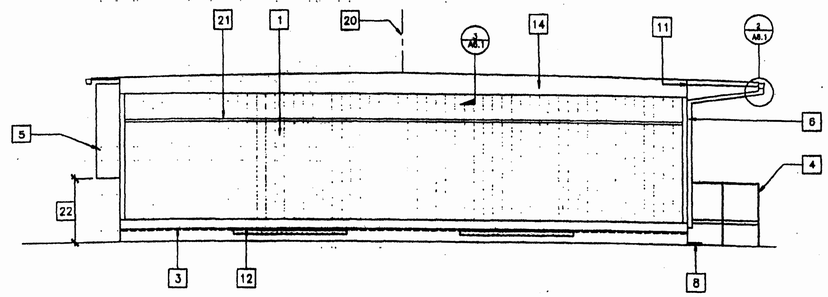
SHEET NO.
A2.0
DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

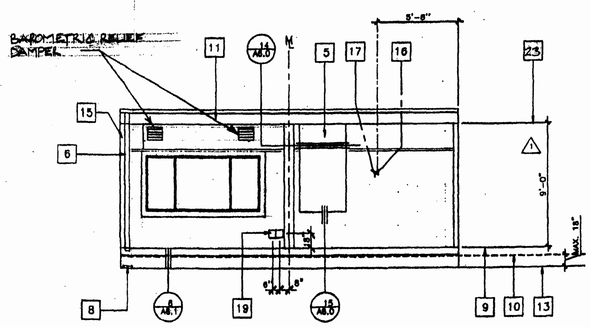
DATE PLOTTED: 11/28/2023 9:11:51 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK8V.rvt



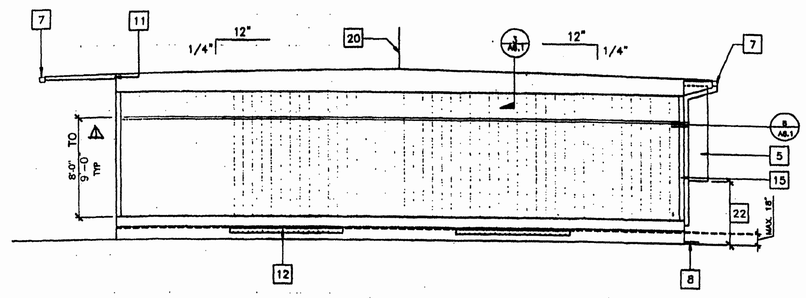
1 FRONT ELEVATION
1/4" = 1'-0"



2 LEFT ELEVATION
1/4" = 1'-0"



3 REAR ELEVATION
1/4" = 1'-0"



4 RIGHT ELEVATION
1/4" = 1'-0"

'A' = SHOWN
'B' = OPPOSITE

PC
CBC 1998

KEY NOTES

1. TYPICAL EXTERIOR SIDING (SEE A5.0)
2. EXTERIOR LIGHT FIXTURE (SEE SPEC'S)
3. TOP OF SKIRTING
4. RAMP AND LANDING SEE SHT. R-1
5. HVAC UNIT. SEE HV
6. DOWNSPOUT (TYP.) FOR (2). FASTEN TO BLD'G. TYP 3 PLACES (SEE 8/A6.1)
7. CONTINUOUS GUTTER WITH DOWNSPOUT (LOCATION OF DOWNSPOUT SHOWN ON ROOF PLAN) SEE A2.0
8. SPLASH BLOCK (BY OTHERS)
9. FINISH FLOOR LINE
10. BOTTOM FLANGE OF FLOOR BEAM
11. ROOF HEADER
12. VENT. SEE FOUNDATION PLAN
13. FINISH GRADE
14. ROOF BEAM SEE STR
15. COLUMN SEE STR
16. ELECTRICAL STUB-OUT SEE EL
17. GROUND STUB-OUT SEE EL
18. J BOX FOR EXT. FA HORN SEE EL
19. NEMA 6" X 6" GUTTER BOX SEE EL
20. RIDGE
21. GI Z FLASHING
22. IF HVAC UNIT IS LOCATED IN ANY PATH OF TRAVEL OR CIRCULATION AREA AND HEIGHT FROM GRADE TO BOTTOM OF UNIT EXCEEDS 27" THEN PROTECTION MUST BE PROVIDED.
23. TOP OF COLUMN

NOTES

1. SEE FOUNDATION PLAN FOR SIZE AND LOCATION OF UNDER FLOOR VENTS.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 103677 AC FLS SS DATE OCT 2 3 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 103216 AC FLS SS DATE 6/14/01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 103169 AC FLS SS DATE 4-14-04

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 102490 AC FLS SS DATE AUG 2 4 2001

REVISIONS

1	11/28/23	ADD DIM	SS
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Electrical Engineer's Seal | Mechanical Engineer's Seal | Structural Engineer's Seal | Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 AC FLS SS DATE OCT 2 3 2001

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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EXTERIOR ELEVATIONS W/O FASCIA

DRAWN BY: DATE:
CHECKED BY: SS DATE: 10/22/99
MODTECH Drawing No.
A3.01

PROJECT NO. PC-04-101419 ~~BGH PROJECT NO. 200019.21~~ BGH PROJECT NO. 200019.31

FILE PATH: 2140-C-A3-01.DWG

AGENCY APPROVAL DSA# 02-121945 39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
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SS ☑ FLS ☑ ACS ☑
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PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
EXTERIOR ELEVATIONS (DUAL PITCH) 24'X40' W/O FASCIA

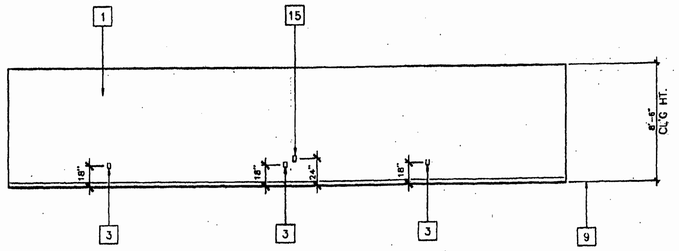
DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.
A3.01
DATE: DECEMBER 5, 2023

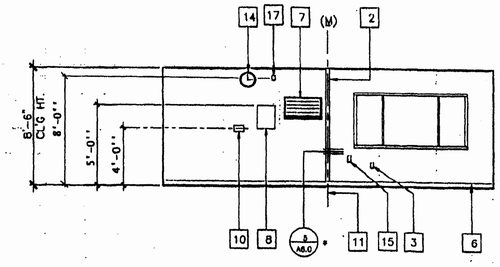
CONSTRUCTION DOCUMENTS

FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK8V.rvt

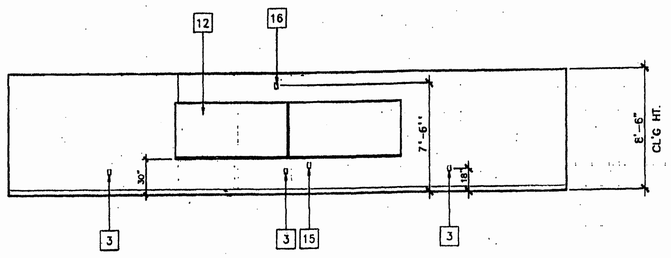
DATE PLOTTED: 11/28/2023 9:11:51 AM



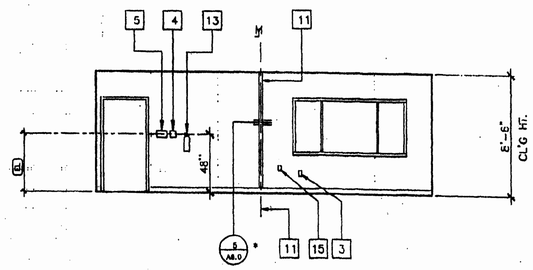
1 RIGHT ELEVATION



2 REAR ELEVATION



3 LEFT ELEVATION



4 FRONT ELEVATION

"A" = SHOWN
"B" = OPPOSITE

PC
CBC 1998

INTERIOR ELEVATIONS

24' X 40'

SCALE 1/4"=1'-0"

KEY NOTES

1. TYPICAL INTERIOR FINISH (SEE A5.0)
2. CLOSURE AT MODULAR JOINT
3. FOURPLEX WALL RECEPTACLE SEE EL
4. J BOX FOR INT FA PULLSTATION SEE EL
5. LIGHT SWITCH SEE EL
6. TOP SET BASE (TYPICAL) SEE FINISH SCHED.
7. RETURN AIR GRILL SEE HV
8. ELECTRICAL PANEL SEE EL
9. LINE OF FINISH FLOOR
10. THERMOSTAT SEE HV
11. MODULAR JOINT
12. 8040 MARKBOARD. TYPICAL FOR (2) SEE SPEC'S
13. FIRE EXTINGUISHER: 5LBS. DRY CHEMICAL WITH 2A-10BC U.L. RATING ON WALL MTD. BRACKET, HANDLE AT 48" A.F.F.
14. 12" DIA. ELECTRIC CLOCK. SEE EL
15. DATA J BOX SEE EL
16. INTRUSION ALARM J BOX SEE EL (OPTIONAL)
17. CO_2 SENSOR SEE HV BC

NOTES

1. FOR MOUNTING HEIGHTS SEE EL.
2. *DETAIL 5/A6.0 FOR WOOD STUDS. SEE ALT. DET. 5/A6.0M FOR USE WITH METAL STUDS.

IDENTIFICATION STAMP DIV. OF STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 102216 AC FLS DATE 6/17/01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 103677 AC FLS SS DATE OCT 23 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 106160 AC FLS SS DATE 4-14-04

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 102490 AC FLS SS DATE AUG 2

LICENSED ARCHITECT 12/3/01 STATE OF CALIFORNIA

LICENSED ARCHITECT 12/3/01 STATE OF CALIFORNIA

REVISIONS

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Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal

LICENSED ARCHITECT 12/3/01 STATE OF CALIFORNIA

Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101410 AC FLS SS DATE NOV 2 3 1999

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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INTERIOR ELEVATIONS

DRAWN BY: JM
DATE: 10/24/01
CHECKED BY: GS
DATE: 10/22/99

MODTECH Index No.

A4.0

PC-2440-0

PROJECT NO. ~~FOR PROJECT NO. 200019.31~~ BGH PROJECT NO. 200019.31

FILE PATH: 2440-0-A4-0.DWG

AGENCY APPROVAL DSA# 02-121945 39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-121945 INC: REVIEWED FOR SS ☑ FLS ☑ ACS ☑ DATE: 12/12/2023

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PROJECT OWNER & TITLE

LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE

EXTERIOR ELEVATIONS 24'X40'

DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.

A4.0

DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 11/28/2023 9:11:51 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK6V.rvt

DOOR SCHEDULE

DOORS							FRAMES					
DOOR NUMBER	FRAME OPENING SIZE	MATERIAL	TYPE	FIRE RATING	HARDWARE SET NO.	QUANTITY	MATERIAL	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	JAMB THROAT	NOTE NO.
1	3'-0" X 6'-8"	HM	A	NA	1		HM	7/A6.0	8/A6.0	1/A6.0	5-1/8"	

HM – HOLLOW METAL
AL – ALUMINUM
SST – STAINLESS STEEL
STL – STEEL
WWF – WINDOW WALL FRAME
SC – SOLID CORE WOOD
HC – HOLLOW CORE WOOD
SCL – SOLID CORE WOOD W/LAMINATED PLASTIC FACES

WINDOW SCHEDULE

AMT.	TYPE	WIDTH	HEIGHT	FINISH	WIN. NO.	GLASS TYPE
2	1	8'-0"	4'-0"	ANODIZED	A	[illegible]
						GLASS OR LAMINATED AS [illegible]
						LOW-E GLASS [illegible] GLASS
						COMPANY, LO-E [illegible]

ROOM FINISH SCHEDULE

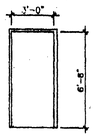
ROOM NUMBER	ROOM NAME	FINISHES								REMARKS
		FLOOR	BASE	WALLS				CEILING	CEILING HEIGHT	
				FRONT	LEFT	REAR	RIGHT			
1	CLASSROOM	A	D	F	F	F	F	L	8'-6"	SEE SIGNAGE

A – CARPET PER STATE OF CALIF SPEC 7220-51E-04 COMPLYING WITH GROUP 1, TYPE A OR TYPE B, CLASS 2, DENSITY 4600, DIRECT GLUE DOWN WITH 4" TOPSET BASE.
B – NOT USED
C – NOT USED
D – 4" BURKE
E – 6" BRIGANTINE OR SANDOVAL
F – 1/2" VINYL TACKBOARD CLASS-1 OVER 1/2" GYP. BOARD BACKING
G – 1/2" W.R. GYP. BOARD TAPE TEXTURE WITH PAINTED FINISH
H – 3/8" W.R. GYP. BOARD TAPE TEXTURE WITH PAINTED FINISH
~~I – 1/2" GYP. BOARD TAPE TEXTURE PAINTED WITH PAINTED FINISH~~
~~J – 3/8" GYP. BOARD TAPE TEXTURE PAINTED WITH PAINTED FINISH~~
~~K – 1/8" MARLITE OVER 1/8" W.R. GYP. BOARD~~
L – ACCOUSTICAL LAY IN GRID CEILING PANELS (SEE SPECIFICATIONS)

NOTES

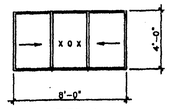
1. ALL FINISHES SHALL COMPLY WITH C.B.C. CHAPTERS 3,6,7,8, & 10 & C.F.C. & TITLE 19 C.C.R.
2. FOR DOOR AND DOOR FRAME DATA SEE SPECIFICATIONS ON SHEET A8.0.

DOOR ELEVATIONS



TYPE A

WINDOW ELEVATIONS



TYPE 1

DOOR NOTES

1. DOOR HANDLES FOR LOCKSETS TO BE CENTERED @ 38" AFF & DEADBOLTS @ 44" AFF.
2. HARDWARE TO BE OPENABLE FROM THE INSIDE WITHOUT ANY SPECIAL KNOWLEDGE OR EFFORT. LEVERS TO RETURN TO WITHIN 1/2" OF DOOR.
3. ALL DOORS SHALL BE 1-3/4" THICK UNO
4. DOUBLE LETTERS IN SCHEDULE, INDICATES A PAIR OF DOORS.
5. SAFETY GLASS, CLEAR
6. WIRE GLASS
7. UNDERCUT DOOR
8. FIXED LOUVER
9. FUSIBLE LINK LOUVER
10. VISION PANEL
11. CLOSURE SHALL BE SET FOR MAXIMUM OPENING PRESSURE OF 8.5 LBS @ EXTERIOR DOORS AND 5.0 LBS @ INTERIOR DOORS.

WINDOW NOTES

1. 8040 XOX ANODIZED ALUMINUM GLAZING: EXTERIOR LITE 3/16" MIN. TEMPERED GLASS OF SOLAR GRAY WITH A LITE TRANSMISSION FACTOR OF 46%. 1/4" ALUMINUM SPACER. INTERIOR LITE – 1/8 MIN. CLEAR TEMPERED. ALL OPERABLE SASH SHALL HAVE ALUMINUM SSCREENS.

FINISH NOTES

1. SUB-FLOOR PREP:

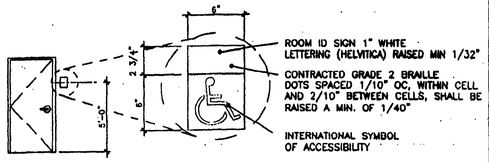
PREPARATION FOR SUB FLOOR TO ACCEPT FINISH FLOORING IS BY FLOORING CONTRACTOR. PLYWOOD SUB FLOOR IS 2.4.1 PLYWOOD. OUTER PLY IS PLUGGED AND TOUCH SANDED, ANY DEFORMATIES DUE TO STANDARD CONSTRUCTION PRACTICES SHALL BE FILLED AND SANDED BY FLOORING CONTRACTER. THE JOINT AT THE MODULEJOINING SHALL NOT BE LARGER THAN 1/8" AND SHALL BE FILLED AND SANDED BY FLOORING CONTRACTOR.

HARDWARE SCHEDULE

HARDWARE SET #1

LOCKSET	– SCHLAGE D70PD, RHODES LEVER, OR EQUAL
BUTTS	– 1-1/2 PAIR HAGER BB1191 4-1/2 x 4-1/2 NRP 26D OR EQUAL.
CLOSER	– NORTON 8500 DA / LCN 1460 OR EQUAL.
THRESHOLD	– PEMCO 271A OR EQUAL.
DOOR BOTTOM	– PEMCO 216AV OR EQUAL.
WEATHERSTRIP	– PEMCO 299AV OR EQUAL.
DOOR STOP	– QUALITY #44 OR EQUAL

ACCESSIBILITY SIGNAGE (BY DISTRICT)



ENTRY DOOR FROM EXTERIOR VIEW

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 103677 AC FLS SS DATE OCT 2 3 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 105216 AC FLR SS DATE 2/14/01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 106169 AC FLS SS DATE 4-14-04

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 106490 AC FLS SS DATE AUG 24 2004

PC
CBC 1998

REVISIONS

Electrical Engineer's Seal | Mechanical Engineer's Seal | Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 AC FLS SS DATE OCT 25 1999

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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DRAWN BY: DATE: 4/1/01
CHECKED BY: SS DATE: 10/22/99

SCHEDULE SHEET

MODTECH Index No. A5.0

PC-04-101419 PROJECT NO. ~~BGH PROJECT NO. 200019.01~~ BGH PROJECT NO. 200019.31

FILE PATH: 2440-0-A5-0.DWG

AGENCY APPROVAL DSA# 02-121945 39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-121945 INC: REVIEWED FOR SS FLS ACS DATE: 12/12/2023

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION
-		
-		
-		

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
DOOR, WINDOW, FINISH, HARDWARE SCHEDULES

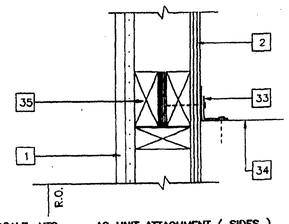
DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.
A5.0
DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK6V.rvt

DATE PLOTTED: 11/28/2023 9:11:51 AM



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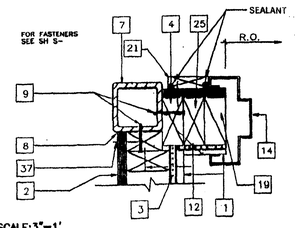
17 UNIT ATTACHMENT



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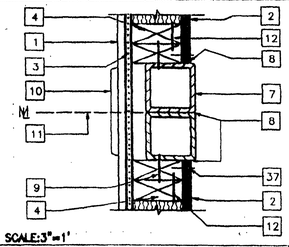
13 DOOR JAMB



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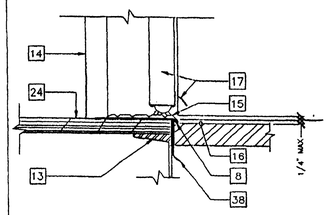
9 COLUMN • DODLINE



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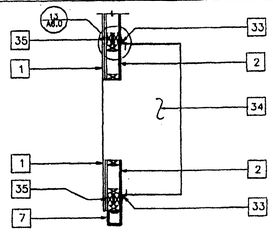
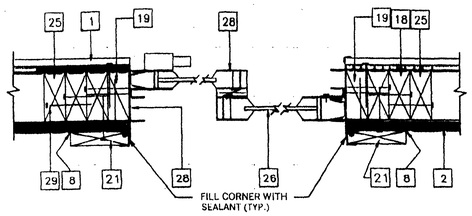
5 THRESHOLD

1



SCALE: NTS

18 A.C. UNIT (PLAN)



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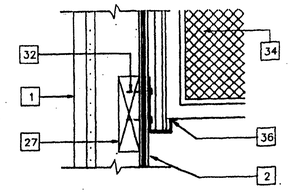
14 WINDOWS SECTION • JAMBS

6

2



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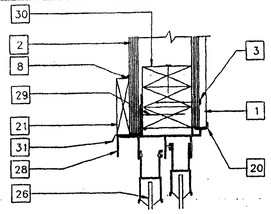
19 A.C. UNIT (BOTTOM)



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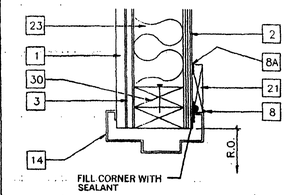
15 WINDOW HEADER



SCALE:3"=1'

11 DOOR HEADER

7

3

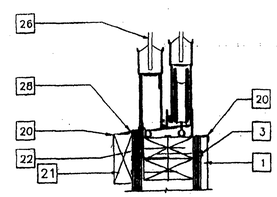
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 106169 AC FLS SS KB DATE 4-14-04

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 103677 AC FLS SS DATE OCT 23 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 103216 FLS SS 6/4/01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 100490 AC FLS SS AUG

20

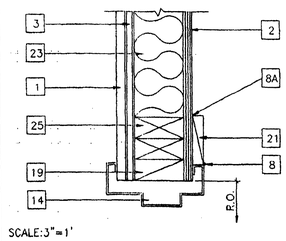


SCALE: 1-1/2"=1'

PC

CBC 1998

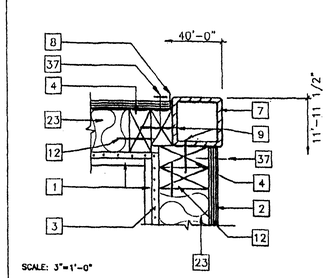
16 SILL PLATE



SCALE:3"=1'

12 DOOR JAMB

8



SCALE: 3"=1'-0"

CORNER COLUMN

4

KEY NOTES

1. TYP. INTERIOR FINISH (SEE FINISH SCHEDULE)
2. TYPICAL EXTERIOR FINISH
3. 1/2" GYPSUM BOARD BACKING W/ 7d COOLER NAILS AT MAX 7" O.C. TYP. AT EA. STUD
4. 2X4 STUD TYP. AT 16" O.C. MAX.
5. CORNER MOLD
6. 26GA SHEET METAL FLASH 2" X 4" X LENGTH
7. TUBE STEEL COLUMN SEE STR
8. SEALANT TYP. (SEE SPECS.) 8A SEALANT BEHIND TRIM
9. #10 S.T.S.M.S. AT MAX. 24" O.C. (ALT. HILTI 0.145 SHOT PIN) 2X FILLER TO COLUMN
10. VINYL CLOSURE
11. MODULE JOINT
12. 16d AT 24" O.C. FACE NAIL OR 16d AT 12" O.C. TOE NAIL (SEE SHEET S5.1)
13. FLOOR BEAM SEE STR
14. PRESSED STEEL FRAME (K.D. TYPE SEE A5.0)
15. ALUMINUM THRESHOLD (SEE HARDWARE SCHEDULE)
16. FINISH LANDING SEE FLOOR PLAN AND FOUNDATION FOR TYPE AND FINISH
17. DOOR AND DOOR BOTTOM (SEE HARDWARE SCHEDULE)
18. (2) 2X4 KING STUD (SEE SHEET S5.0)
19. 2X4 TRIMMER (SEE SHEET S5.0)
20. "Z" MOLD 26GA
21. 1X4 WOOD TRIM W/ 8d ELECTRO GALV. AT 12" O.C.
22. (2) 2X4 SILL PLATE W/ 16d AT 16" O.C.
23. INSULATION (SEE SPECS. FOR SIZE AND TYPE)
24. FINISH FLOORING (SEE FINISH SCHEDULE SHEET A5.0)
25. 2X4 JAMB STUDS (SEE SHEET S5.0) DETAILS FOR NUMBER OF STUDS REQUIRED AND NAILING SCHEDULE FOR NAILING
26. WINDOW GLAZING (SEE WINDOW SCHEDULE SHEET A5.0)
27. 2X6 LET IN (SEE WALL FRAMING SHEET S5.0)
28. ALUMINUM WINDOW FRAME WITH NAIL-ON FINISH. INSTALL W/ MIN. 3" BLDG. PAPER BETWEEN FINISH AND FRAMING. INSTALL WITH 8d AT MAX. 24" O.C.
29. 16d BOX STAGGERED AT MAX 24" O.C.
30. HEADER 12/S5.0
31. 26 GA DRIP FLASH
32. 6-3/8"ø X 2" GALVANIZED LAG SCREWS
33. L 1-1/2"x1-1/2"x1/8"x18" LONG (BY HVAC MFR.) ATTACHED TO A/C W/ 4-#10 SELF TAPPING SHEET METAL SCREWS AND ATTACH TO WALL W/ 3"ø X 2" GALVANIZED LAG SCREWS
34. SIDE OF HVAC UNIT SEE HV
35. (3) 2X4 W/ PLYWOOD SPACER- BUILT- UP POST. 8d AT O.C. STAGGERED SPACER TO FIRST 2X4 16d AT 12" O.C. SECOND 2X4 12d AT 12" O.C. STAGGERED THIRD 2X4 ALTERNATE USE 4X4 POST
36. 11GA. X24" STEEL SUPPORT BRACKET
37. EN - 8d BOX ELECTRO GALV. AT 6" O.C.
    FN - 8d BOX ELECTRO GALV. AT 12" O.C.
38. 26 GA GALVANIZED FLASH AT DOOR SILL

NOTES

1. EN 8d ELECTRO GALV. AT 6" O.C.
2. FN Ed ELECTRO GALV. AT 12" O.C.
3. SEE SHEET S3.0 FOR TYPICAL WALL FRAMING NAILING

INSULATION MATERIALS INSULATED WITHIN FLOOR-CEILING ASSEMBLIES, ROOF-CEILING ASSEMBLIES, WALLS, CRAWL SPACES, OR ATTICS SHALL HAVE A FLAMESPREAD RATING NOT TO EXCEED 25 AND A SMOKE DENSITY NOT TO EXCEED 450. EXCEPTIONS:
A: FOAM PLASTIC INSULATION SHALL COMPLY WITH SEC. 2602

B: WHEN MATERIALS ARE INSULATEDIN CONCEALED SPACES OF TYPES I, II, IV, AND V CONSTRUCTION, THE FLAME SPREAD AND SMOKE-DEVELOPED LIMITATIONS DO NOT APPLY TO FACINGS. IF THE FACING IS INSTALLED IN SUBSTANTIAL CONTACT WITH THE UNEXPOSED SURFACE OF THE CEILING, FLOOR OR WALL FINISH. (SEC. 707.3 CBC)

LICENSED ARCHITECT FRED VINCENT MASSUCCI No. C-24888 12/31/01 RENEWAL DATE STATE OF CALIFORNIA

LICENSED ARCHITECT FRED VINCENT MASSUCCI No. C-24888 12/31/01 RENEWAL DATE STATE OF CALIFORNIA

REVISIONS

1		
2		
3		
4		
5		

Electrical Engineer's Seal

Mechanical Engineer's Seal

LICENSED ARCHITECT FRED VINCENT MASSUCCI No. C-24888 10/31/01 RENEWAL DATE STATE OF CALIFORNIA

Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 AC FLS SS DATE OCT 2 5 1999

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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DRAWN BY: DATE: 4/4/01
CHECKED BY: DATE: 10/22/99
MODTECH Index No.

ARCHITECTURAL DETAILS

A6.0

FILE PATH: 2440-0-A6-0.DWG

PROJECT NO. PC-2440-0

~~BGH PROJECT NO. 200019.21~~ BGH PROJECT NO. 200019.31

AGENCY APPROVAL DSA# 02-121945 39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION
-		
-		

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

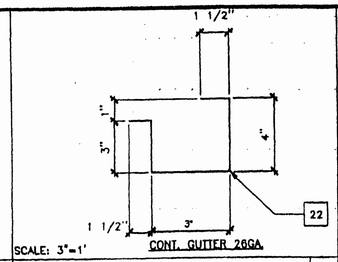
SHEET TITLE
ARCHITECTURAL DETAILS (WOOD STUDS)

DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.
A6.0
DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 11/28/2023 9:11:51 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK6V.rvt



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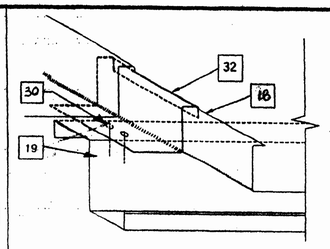
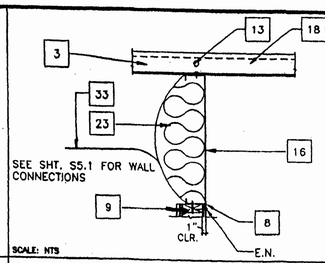
17 | 13 | CONT. GUTTER AND CLOSURE | 9



ROOF STANDING SEAM | 5

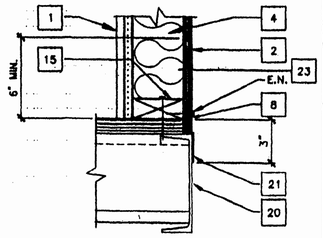


SEE SHT. S5.1 FOR WALL CONNECTIONS

SCALE: NTS

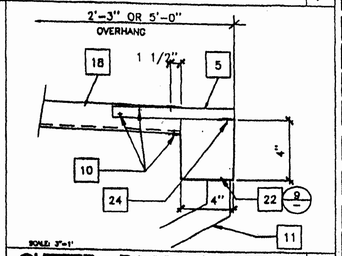
END WALL AT ROOF | 1

18 | 14 | 10



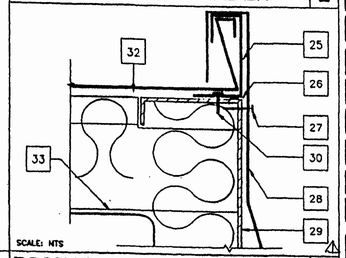
NOTE: FLASHING AS SHOWN SUPPLIED BY MODTECH. SEE NOTE #21 ANY OTHER FLASHING OR EXTENSION IS THE RESPONSIBILITY OF THE SITE CONTRACTOR OR SCHOOL DISTRICT

SCALE: 3"=1'



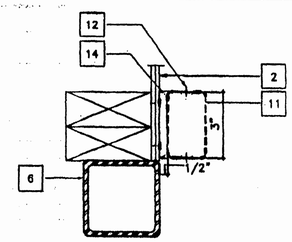
SCALE: 3"=1'

GUTTER • ROOF HEADER | 2



SCALE: NTS

19 | 15 | 11 | TYPICAL SILL • FLOOR | 6 | ROOF FLASHING AT SIDE WALL | 3



SCALE: 4"=1'

20 | 16 | 12 | DOWNSPOUT ATTACHMENT | 8 | 4

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 103677 AC FLS SS DATE OCT 2 3 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 103216 AC FLS DATE 6/18/01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 103169 AC FLS SS DATE 4-14-01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 103490 AC FLS SS DATE AUG 2 4 2000

PC

CBC 1998

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 AC DATE OCT 2 3 1999

KEY NOTES

1. TYP. INTERIOR FINISH
2. TYP. EXTERIOR FINISH
3. #14STSMS X 3/4" W/NEO WASHER 3 PER PAN MAX 6" O.C.
4. 2X4 STUD TYP. 16" O.C.
5. 1 1/2"X1 1/2" X 22GA ∠ CLIP AT 32" O.C.
6. TUBE STEEL SEE STR
7. 1 1/2"X1 1/2" X 20GA COPED ANGLE W/2 #10 STSMS TO PURLIN (TYP) AT 8'-0" O.C.
8. SEALANT TYP. (SEE SPECIFICATIONS)
9. EXTERIOR WALL (SEE S5.1 FOR CONNECTIONS)
10. #14 STSMS AT EA STANDING RIB (16" OC)
11. DOWNSPOUT
12. #8 STSMS- 1 AT EA SIDE OF DOWNSPOUT TO BRACKET
13. (1) - #14 STSMS W/NEOPRENE WASHER THROUGH RIB
14. ATTACHMENT BRACKET(TYP 3 PLACES: TOP, BOTTOM & MIDSPAN W/ 2-#10 STSMS, BRACKET TO STUD)
15. 2 X 4 SILL PLATE PER 4/S5.1
16. ROOF HEADER SEE STR
17. CI FLASHING 22GA
18. STANDING SEAM ROOF (SEE A2.0 FOR GA.)
19. ROOF PURLIN SEE STR
20. FLOOR BEAM SEE STR
21. 22GA GALV. FLASHING (AT BELOW GRADE CONC. FOUNDATION ONLY)
22. CONTINUOUS 26GA. GUTTER (SEE 9/A6.1)
23. INSULATION (SEE SPECS FOR TYPE AND SIZE)
24. #14 STSMS AT EACH CLIP (32" O.C.)
25. 22 GA STARTER/END ROOF CLIP-3/A6.1
26. 1/4" CONTINUOUS BEAD OF SEALANT AROUND ENTIRE PERIMETER OF FRAME
27. #10x3/4" STSMS ~~THRU FLASHING INTO ROOF BEAM W/~~ NEOPRENE WASHER- ~~24" OC~~
28. 26 GA GALVANIZED IRON FLASHING AT SIDE WALL
29. C 14x12 GA HEADER
30. (2) AKN .144 KNURLED DRIVE PINS-ROOF CLIP TO PURLIN ROOF BEAM OR HEADER
31. 6"x2 1/2"x14 GA ROOF PURLIN SEE PLAN FOR SPACING
32. 22 GA STARTER/END ROOF CLIP
33. PROVIDE VAPOR BARRIER OVER INSULATION AT ROOF BEAMS AND CEILING

REVISIONS

1	12/9/99	UPDATE CLIP DETAIL	SS
2			
3			
4			
5			

Electrical Engineer's Seal | Mechanical Engineer's Seal | Architects Seal

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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DRAWN BY: DATE: 4/4/01
CHECKED BY: SS DATE: 10/02/99
MODTECH Index No.

ARCHITECTURAL DETAILS

A6.1

PC-04-101419 PROJECT NO. ~~BGH PROJECT NO. 200018.21~~ BGH PROJECT NO. 200019.31

AGENCY APPROVAL DSA# 02-121945 39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION
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THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE

LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE

ARCHITECTURAL DETAILS (WOOD STUDS)

DRAWN BY: XXXXXX JOB NUMBER: 23219

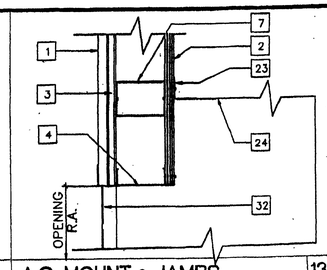
SHEET NO.

A6.1

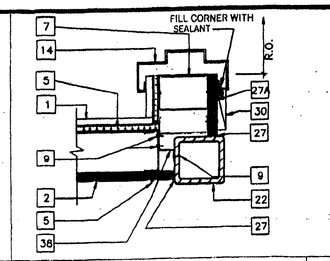
DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

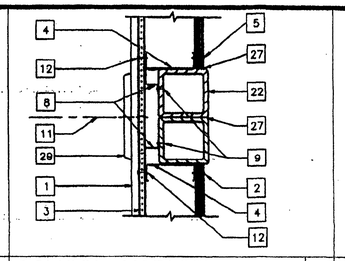
DATE PLOTTED: 11/28/2023 9:11:51 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK6V.rvt



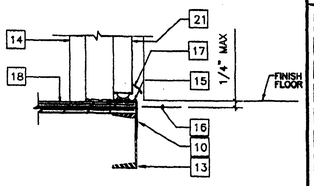
A.C. MOUNT • JAMBS 13



EXT. DOOR JAMB • CORNER 9



COLUMN • MODLINE 5



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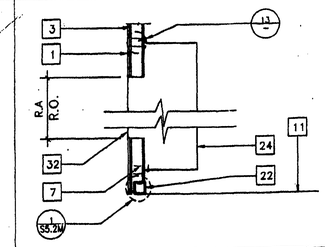

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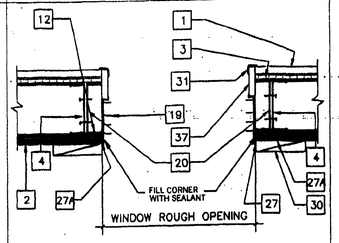
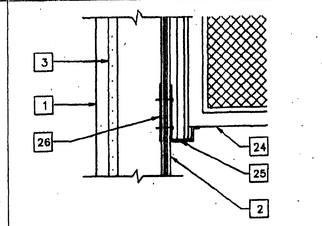


WINDOWS SECT. • JAMBS 10

6

2



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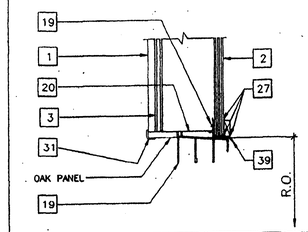
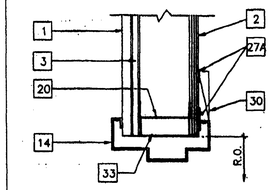


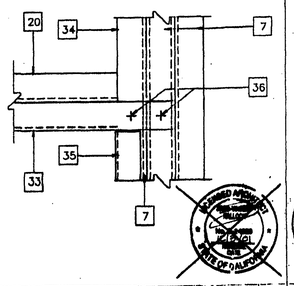
WINDOW HEADER 11



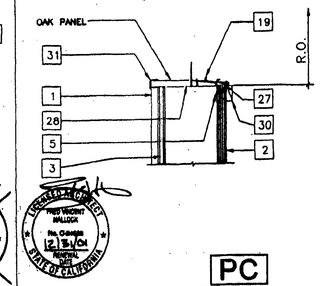
EXT. DOOR HEADER 7

INSULATION MATERIALS INSTALLED WITHIN FLOOR-CEILING ASSEMBLIES, ROOF-CEILING ASSEMBLIES, WALLS, CRAWL SPACES, OR ATTICS SHALL HAVE A FLAMESPREAD RATING NOT TO EXCEED 25 AND A SMOKE DENSITY NOT TO EXCEED 450. EXCEPTIONS: 1. FOAM PLASTIC INSULATION SHALL COMPLY WITH SEC. 2602 2. WHEN MATERIALS ARE INSTALLED IN CONCEALED SPACES OF TYPES I, II, IV, AND V CONSTRUCTION, THE FLAME SPREAD AND SMOKE-DEVELOPED LIMITATIONS DO NOT APPLY TO FACINGS. IF THE FACING IS INSTALLED IN SUBSTANTIAL CONTACT WITH THE UNEXPOSED SURFACE OF THE CEILING, FLOOR, OR WALL FINISH. (SEC. 707.3 CBC)

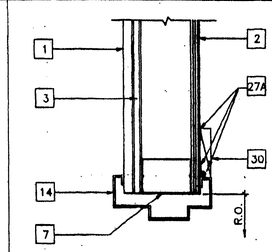
INSULATION SPECS 3



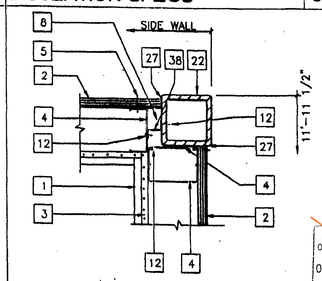
HEADER TO JAMB CONNECT. 16



WINDOW SILL 12



EXTERIOR DOOR JAMB 8



CORNER COLUMN 4

PC

CBC 1998

KEY NOTES

1. TYP. INTERIOR FINISH (SEE FINISH SCHEDULE.)
2. TYP. EXTERIOR FINISH
3. 1/2" GYPSUM BOARD BACKING W/ TYPE 'S' DRYWALL SCREWS @ MAX. 12" O.C EN&FN
4. 1 1/2" X 3 1/2" X 20 GA. MT'L STUD (SEE SCHED. S5.1M)
5. EN #8 STSMS @ 8" O.C. (ZINC PLATED) STD. 25-17 - SEC. 25.1717(a). ALTERNATE FASTENER - BRICO AKNO.100
6. EN #8 STSMS @ 12" O.C. (ZINC PLATED) STD. 25-17 - SEC. 25.1717(a). ALTERNATE FASTENER - BRICO AKNO.100
7. JAMB STUDS (SEE SCHEDULE S5.1/M) & 5/S5.1M
8. S.M. WALL ATTACHMENT (SEE 2/S5.1M)
9. #10 S.T.S.M.S. @ MAX. 24" O.C.
10. SHEET METAL FLASHING 4" X 2" X 26 GA.
11. MODULE JOINT
12. #8 STSMS @ 24" O.C.
13. FLOOR BEAM (SEE STRUCTURAL)
14. PRESSED H.M. ST'L FRAME (SEE A5.0)
15. ALUMINUM THRESHOLD (SEE HARDWARE SCHEDULE)
16. FINISH LANDING SEE FLOOR PLAN & FOUNDATION FOR TYPE AND FINISH
17. DOOR BOTTOM (SEE HARDWARE SCHEDULE)
18. FINISH FLOORING (SEE FINISH SCHEDULE A5.0)
19. ALUMINUM WINDOW FRAME W/NAIL ON FIN INSTALL W/MIN. 3" BLDG. PAPER SHINGLE FASHION & #8 STSMS @ 24" O.C.
20. HEADER TRACK (SEE SCHEDULE S5.1M))
21. DOOR (SEE DOOR SCHEDULE)
22. ST'L TUBE COLUMN (SEE S3.0)
23. (3) 3/8"ø X 2 1/2" LAG SCREWS TO BLD'G FRAME PER MOUNTING BRACKET. 3 BRACKETS TOTAL = 9 LAGS TOTAL PER MANUFACTURERS RECOMMENDATIONS
24. H.V.A.C. UNIT (SEE SHT M-1)
25. 11GA. X24" SUPPORT BRACKET BY HVAC MFG. ATTACH TO WALL W/6-#12 STSMS
26. 20 GA. X 4" LONG S.M. STRAP SEE DETAIL 14 ON SHT. S5.0M
27. SEALANT TYP. (SEE SPEC'S)
27A. SEALANT BEHIND TRIM
28. SILL TRACK (SEE SCHEDULE S5.1M)
29. VINYL CLOSURE
30. 1"X4" WD. TRIM W/#8 STSMS @ 12" O.C. (ZINC PLATED) KBRF SAWN
31. CORNER MOLDING
32. RETURN AIR GRILLE
33. HEADER
34. CRIPPLE
35. TRIMMER STUD TRACK COVER
36. #6 S.T.S.M.S.
37. PREFINISH PANEL W/ PREFINISH TRIM
38. 20 GA. ⊤ CONT.
37. 26 GA GALVANIZED DRIP FLASH

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 106177 AC FLS SS DATE OCT 23 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 105216 AC FLS SS DATE 6/7/01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 106169 AC FLS SS DATE 4-14-01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 105490 AC FLS SS DATE AUG

REVISIONS

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Electrical Engineer's Seal | Mechanical Engineer's Seal | Structural Engineer's Seal | Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 AC FLS SS DATE OCT 25 1999

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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ARCHITECTURAL DETAILS

DRAWN BY: DATE: 4/1/01
CHECKED BY: SS DATE: 10/22/99
MODTECH Index No.

A6.0M

PC-04-101419 PROJECT NO. ~~BGI PROJECT NO. 200019.31~~ BGH PROJECT NO. 200019.31

FILE PATH: 2440-0-A6-0M.DWG

AGENCY APPROVAL DSA# 02-121945 39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-121945 INC: REVIEWED FOR SS FLS ACS DATE: 12/12/2023

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION
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PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
ARCHITECTURAL DETAILS (METAL STUDS)

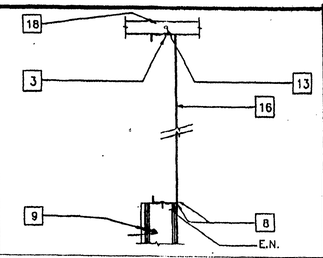
DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.
A6.0M

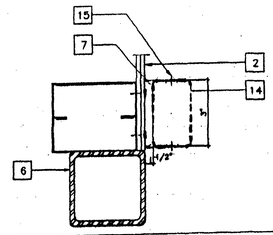
DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 11/28/2023 9:11:51 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK6V.rvt



4 END WALL @ ROOF 1



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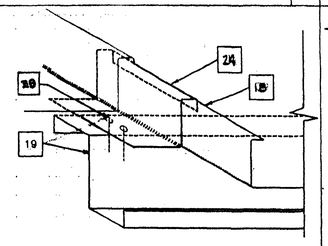
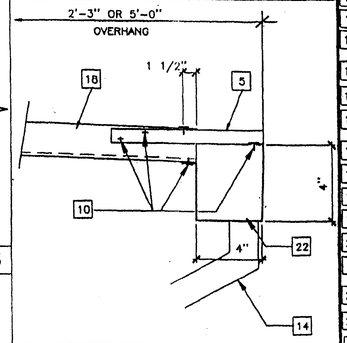
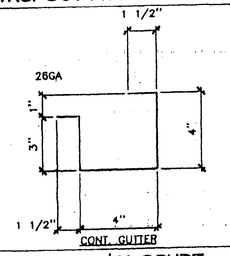


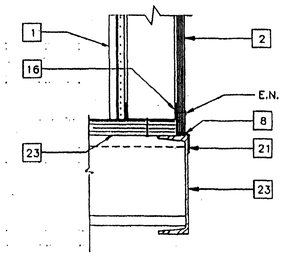
ROOF STANDING SEAM 5



GUTTER @ ROOF HEADER 2

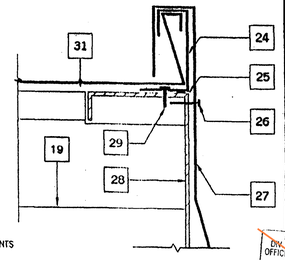


CONT. GUTTER/CLOSURE 9



NOTE: FLASHING AS SHOWN SUPPLIED BY MODTECH. SEE NOTE #21 ANY OTHER FLASHING OR EXTENSION IS THE RESPONSIBILITY OF THE SITE CONTRACTOR OR SCHOOL DISTRICT

SECTION @ FLOOR FRAME 6



SCALE: NTS

ROOF FLASHING AT SIDE WALL 3

KEY NOTES

1. TYP. INTERIOR FINISH (SEE FINISH SCHED.)
2. TYP. EXTERIOR FINISH
3. #14 STSMS X 3/4" W/NEOPRENE WASHER 3 PER PAN MAX.. 6" O.C.
4. 20 GA X 3 1/2" MT'L STUD @ 16" O.C.
5. 1 1/2X1 1/2X22GA ∠ CLIP @ 32" O.C.
6. TUBE STEEL COLUMN (SEE STRUCTURAL)
7. ATTACHMENT BRACKET(TYP-3 PLACES/TOP, BOTTOM & MIDSPAN) W/2-#10 STSMS. BRACKET TO STUD
8. SEALANT TYP. (SEE SPECIFICATIONS)
9. EXTERIOR WALL (SEE S5.2 FOR CONNECTIONS)
10. #14 STSMS @ EA STANDING RIB (16" O.C.)
11. ROOF BEAM (SEE STRUCTURAL)
12. 1 1/2X1 1/2X20GA COPED ANGLE W/2-#10 STSMS TO PURLIN (TYP) @ 8'-0" O.C.
13. 1-#14 X 3/4" STSMS W/NEOPRENE WASHER THRU RIB
14. DOWNSPOUT
15. #8 STSMS 1 @ EA SIDE OF DOWNSPOUT TO BRACKET
16. ROOF HEADER (SEE STRUCTURAL)
17. G.I. FLASHING 26GA
18. STANDING SEAM ROOF (SEE A2.0 FOR GA)
19. ROOF PURLIN (SEE STRUCTURAL)
20. CONT. SILL TRACK
21. 26GA GALV. FLASHING (ONLY AT BELOW GRADE CONC. FOUNDATIONO (Z FLASH)
22. CONTINUOUS 26GA GUTTER (SEE 9/A6.1)
23. FLOOR BEAM (SEE STRUCTURAL)
24. 22 GA STARTER/END ROOF CLIP-3/A6.1
25. 1/4" CONTINUOUS BEAD OF SEALANT AROUND ENTIRE PERIMETER OF FRAME
26. #10x3/4" STSMS THRU FLASHING INTO ROOF BEAM W/ NEOPRENE WASHER-2.4# OC
27. 26 GA GALVANIZED IRON FLASHING AT SIDE WALL
28. C 14x12 GA HEADER
29. (2) AKN .144 KNURLED DRIVE PINS-ROOF CLIP TO PURLIN ROOF BEAM OR HEADER
30. 6"x2 1/2"x14 GA ROOF PURLIN SEE PLAN FOR SPACING
31. 22 GA STANDING SLAM ROOF PAN

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 108077 AC FLS SS DATE OCT 2 3 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 108216 AC FLS SS DATE 6/14/01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 106169 AC FLS SS DATE 4-14-04

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 108460 AC FLS SS DATE AUG

REVISED DEC 9 1999

PC

CBC 1998

REVISIONS		
1	12/1/99	UPDATE CLIP DETAIL SS
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Electrical Engineer's Seal | Mechanical Engineer's Seal | Structural Engineer's Seal | Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 AC FLS SS DATE OCT 2 6 1999

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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DRAWN BY: DH DATE: 12/4/01
CHECKED BY: SS DATE: 10/22/99
MODTECH PROJ. No.

ARCHITECTURAL DETAILS

A6.1M

FILE PATH: 2440-0-A6-1M.DWG

PC-04-101419 PROJECT NO. ~~BGH PROJECT NO. 200019.21~~ BGH PROJECT NO. 200019.31

AGENCY APPROVAL DSA# 02-121945 39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION
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PROJECT OWNER & TITLE

LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE

ARCHITECTURAL DETAILS (METAL STUDS)

DRAWN BY: XXXXXX JOB NUMBER: 23219

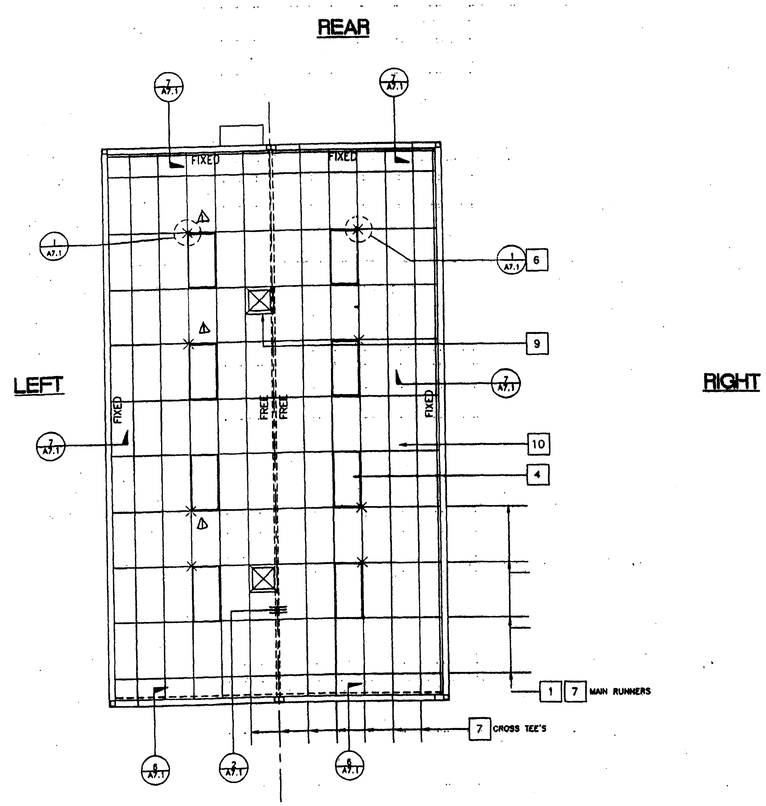
SHEET NO.

A6.1M

DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 11/28/2023 9:11:51 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK8V.rvt



REFLECTED CEILING PLAN (24'X40')

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

KEY NOTES

1. MAIN RUNNERS @ 4'-0" W/12GA. HANGER WIRES @ END OF EACH RUNNER.
2. AT THE END OF ROWS OF RUNNERS A 12GA. HANGER WIRE SHALL BE ATTACHED WITHIN 8" OF WALL OR SOFFIT.
3. VERTICAL WIRES MORE THAN 1-IN-6 OUT OF PLUMB SHALL HAVE COUNTERBRACING WIRES.
4. PROVIDE 2-12GA. SLACK WIRES TO HOUSING OF ALL LIGHT FIXTURES AT DIAGONAL CORNERS. WIRES SHALL BE ATTACHED TO STRUCTURE OF LIGHT FIXTURES: 2 X 4 RECESSED. ATTACH FIXTURE TO GRID W/1-#8 SHEET METAL SCREW AT EACH CORNER.
5. RUNNERS MAY BE ATTACHED TO WALLS OR MOLD AT 2-ADJACENT WALLS. OTHER WALLS NO ATTACHMENT. CLEARANCE OF 1/2" BETWEEN END OF RUNNERS AND FACE OF WALL.
6. CEILING AREAS SHALL HAVE 2/4-WAY SPLAYS PER DETAIL 1 ON SHEET A7.1 IN LOCATIONS INDICATED ON DRAWINGS. WIRES TAUT BUT NOT TO DISTORT GRID.
7. T-BAR PART NUMBERS

	ARMSTRONG PA-041		
RUNNER MAIN	7301D		
4' CROSS TEE	7343		
2' CROSS TEE	7328		
WALL ANGLE	7800D		

8. DUCTWORK SHALL BE RIGIDLY ATTACHED TO BUILDING AND SHALL NOT BE CLOSER THAN 6" TO HANGER WIRES.
9. REGISTERS SHALL BE POSITIVELY ATTACHED W/4-10GA. SHEET METAL SCREWS. (TYP. 1- @ EA. CORNER) **PROVIDE SLACK SAFETY WIRES AT ALL HVAC REGISTERS**
10. CEILING PANELS: 2 X 4 LAY-IN PANELS. ASTM FLAME SPREAD CLASS 1 (0-25). FLAME SPREAD SMOKE DEVELOPMENT DENSITY LESS THAN 450 (TYP.)

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 103677 AC FLS SS DATE OCT 23 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 103216 AC FLS SS DATE 6/14/01

LEGEND

- T & T BAR CEILING
- 2'X 4' ELEC. FIXTURE RECESSED
- SUPPLY AIR DIFFUSER
- RETURN AIR DIFFUSER
- SPLAY WIRE 4 WAY
- INDICATES FIXED SIDE (SEE DETAIL 7/A7.1)
- INDICATES FREE SIDE (SEE DETAIL 6/A7.1)

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 106169 AC FLS SS DATE 4-14-04

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 108490 AC FLS SS DATE AUG 24 2000

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CBC 1998

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Electrical Engineer's Seal | Mechanical Engineer's Seal | Structural Engineer's Seal | Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101412 AC FLS SS DATE OCT 25 1999

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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DRAWN BY: DATE: 1/4/01
CHECKED BY: SS DATE: 10/22/99
MODTECH Index No.

REFLECTED CEILING PLAN 18 LIGHTS

A7.01

PROJECT NO. PC-04-101419

~~BGH PROJECT NO. 200019.21~~
BGH PROJECT NO. 200019.31

FILE PATH: 2440-C-A7-01.DWG

AGENCY APPROVAL DSA# 02-121945 39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-121945 INC: REVIEWED FOR SS ☑ FLS ☑ ACS ☑ DATE: 12/12/2023

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PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

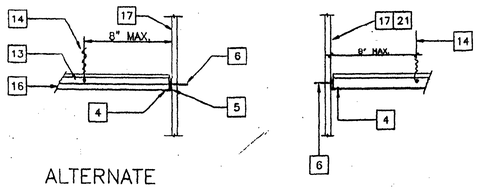
SHEET TITLE
REFLECTED CEILING PLAN (24'X40')

DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.
A7.01

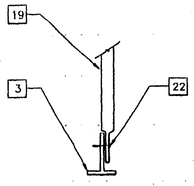
DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS



TYPICAL FIXED SIDE

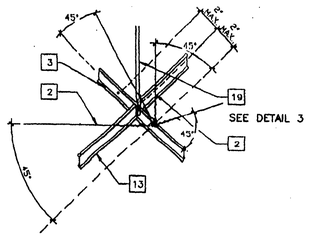
7



NOTE: CONDUIT MAY BE CRIMPED ON EITHER SIDE OF T-BAR, DEPENDING UPON CONDITION & LOCATION

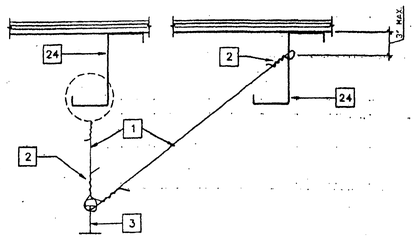
ALT. CONN. AT BOTTOM

4



SIESMIC SPLAY - 4 WAY

1



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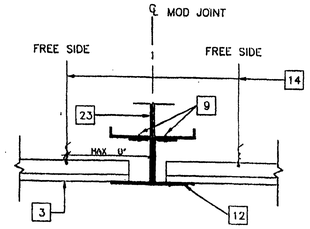
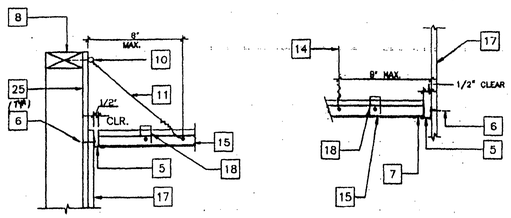


NOTE: LAY-IN CEILING TILE NOT SHOWN FOR CLARITY.

SCALE 3"=1'

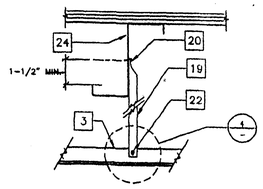
GRID AT MOD LINE

2



TYPICAL FREE SIDE

6



NOTE: CONDUIT MAY BE CRIMPED ON EITHER SIDE OF T-BAR DEPENDING UPON CONDITION & LOCATION

3

KEY NOTES

1. 12GA. HANGER OR DIAGONAL SPLAY WIRE IN PUNCHED OR DRILLED HOLE
2. 12GA. WIRE WITH 4 WRAPS IN 1 1/2" (TYP.) WIRE TO RUN PERPENDICULAR TO MAIN TEE
3. MAIN RUNNER
4. 1/8"ø POP RIVET TO EACH T-BAR
5. WALL ANGLE
6. 6d 16" @ FRAMING TO WALL STUD #8 S.T.S.M.S. WHEN METAL STUDS ARE USED
7. ANGLE WITH 1/8"ø POP RIVET TO EACH T-BAR NO CONNECTION TO WALL ANGLE
8. TOP PLATE
9. #10 S.T.S.M.S. @ 4' O.C.
10. 3" X 1/4" EYED SCREW. 1/8"ø X 2" JIF-E SCREW WHEN METAL STUDS ARE USED
11. HANGER TO WALL WHERE NO RAFTER ABOVE MAX SLOPE 1" IN 6"
12. 28 GA. JETCOAT
13. CROSS TEE
14. 12GA. HANGER WIRE AT THE END ON EACH RUNNER MIN. 4 WRAPS IN MAX 1 1/2" - SEE DETAIL #5 FOR WIRE TO PURLIN ATTACHMENT
15. MAIN RUNNERS OR CROSS TEES
16. ACOUSTICAL BOARD
17. FINISH WALL
18. HORIZONTAL STRUTS SHALL RUN CONTINUOUS AT ALL PERIMETERS, NOT POP RIVETED TO THE WALL ANGLE ARMSTRONG #7425 OR #7445 WITH SPRING STEEL SNAP TO RUNNER PER IR 47-4
19. 3/4" EMT CONDUIT - MAX 5'-2" (COMPRESSION STRUT)
20. CRIMP CONDUIT AND ATTACH TO RAFTER WITH (2) #8 TEK SCREW
21. PROVIDE SPACE AT ALL MEMBERS AT OPPOSITE WALL
22. CRIMP CONDUIT AND ATTACH TO T-BAR GRID WITH #8 TEK SCREW
23. ROOF BEAM SEE STR
24. ROOF PURLIN SEE STR
25. RUN GYP BOARD TO TOP PLATE FOR FIRE BLOCKING

PC

CBC 1998

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Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal

Architects Seal

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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DRAWN BY: dk
DATE: 4/4/01
CHECKED BY: BS
DATE: 10/22/99

REFLECTED CEILING DETAILS

MODTECH Index No.

A7.1

PC- 04-101419 · PROJECT NO. ~~BGH PROJECT NO. 200019.21~~ BGH PROJECT NO. 200019.31

FILE PATH: 2440-0-A7-T.DWG

AGENCY APPROVAL DSA# 02-121945 39-50

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

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PROJECT OWNER & TITLE

LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE

REFLECTED CEILING DETAILS

DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.

A7.1

DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 11/28/2023 9:11:51 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK8V.rvt

STATE OF CALIFORNIA — 5410-OBS-028

Bid Specification — MARCH 2000

Building, Classroom, Prefabricated, Relocatable (General Requirements)

Office of Public School Construction (OPSC)

1.0 **SCOPE:** This specification establishes the general requirements for a prefabricated, relocatable clear span, 2-module classroom building. The building shall be installed on assigned site within the State of California, complete and ready for use. All costs of transportation and installation at the site, together with snow load and wind load requirements shall be included in the bid price. All of the provisions of this specification shall apply except as indicated in the Invitation for Bid (IFB). Not in Contract: The electrical service drop and connection will be supplied by others. The school district will prepare a location on the school site that is cleared and graded. The elevation on the short axis of the 30' x 50' pad will be level. The long axis may be a maximum of 9" from level grade (diagonally)

Definitions:

Agency: The Department of General Services
Agency Architect: Consulting architect retained by the Office of Public School Construction (OPSC). Contact OPSC at (916) 445-3160 for name and address
Contractor: The company responsible for performance on the purchase order (contract) issued by the State. May be the same as the manufacturer.
Manufacturer: The company who manufactures the modules. May be the same as the Contractor.
OPSC: Office of Public School Construction, Department of General Services, State of California
PD: Procurement Division, Department of General Services, State of California
DSA: Division of the State Architect, Department of General Services, State of California
Owner: OPSC
IFB: Invitation for Bid

2.0 **SPECIFICATION AND STANDARDS:** Specifications and standards referenced in this document in effect on the opening of the Invitation for Bid form a part of this specification where referenced

2.1 **SUBSTITUTIONS:** All substitutions for specified items must be approved in writing in advance by PD and OPSC.

3.0 **REQUIREMENTS:**

3.1 **Dimensions:** Building shall consist of two modules designed so that the modules may be joined together to form a complete structure that maintains a positive alignment of floors, walls, and roof and that permits simple non-destructive detachment for future relocation. The building shall occupy an area of 960 square feet with a tolerance of minus 5 square feet. The buildings shall be 24' x 40'. All buildings shall meet the square footage requirement. Linear dimensions shall be vertical trim finish line to vertical trim finish line. Fascia and required overhangs are not included in the calculation of the area the building occupies. The entrance wall shall have a minimum 5'-0" roof overhang. The rear wall shall have a minimum 2' overhang except over rear landings where it shall be minimum 5'-0". Full length gutters and downspouts shall be furnished on the sides of each overhang and each roof edge where drainage occurs. The interior height, floor to ceiling shall be minimum 8'-6". Nothing shall protrude more than 1" below the ceiling level.

3.2 **Load Criteria**

3.2.1 Modules intended for delivery to locations requiring roof live loads or wind loads greater than the minimums required by Title 24, California Code of Regulations (C.C.R.) shall meet the live load criteria established by the IFB. Building shall be clear span type except where roof live loads are 60 pounds or greater, where one column may be included in their design. All buildings must be designed to meet exposure "C" rating (Title 24) and seismic Zone 4.

3.2.2 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 relocation is acceptable. When modules are assembled, joints shall be sealed with removable closing strips or another equivalent method to present a finished appearance and be permanently weatherproof. Each 12' x 40' module shall be sufficiently rigid to be jacked up at the front and back corners for relocation without damage or the module shall have lifting 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 Agency Architect or Structural Engineer, causes excessive working at any joint or compromises the structural integrity of the module shall be sufficient reason for rejection of the module.

3.3 **Foundations:**

3.3.1 All structural members below the subfloor, i.e., girders, joists, headers, blocking, shall be either steel or wood. If wood, it shall be pressure treated as specified below. Markings shall be legible on each pressure treated structural member or certification of treatment shall be supplied for each bundle

3.3.2 All wood foundation materials below subfloor shall be pressure treated Douglas fir, except shims may be redwood or cedar. The building(s) shall be set on pressure treated Douglas fir (PTDF) plywood or pads and PTDF blocks. Pressure treated Douglas fir pads, plywood, etc., shall be verified by a Certificate of Treatment stating, "the material in this unit was treated per Uniform Building Code Standard Section 25-12".

3.3.3 All lumber and plywood for use in ground contact shall be pressure treated with waterborne preservative in accordance with American Wood Preservers' Association (AWPA) Standard C2 (Lumber, Timbers, Bridge Ties and Mine Ties -Preservative Treatment by Pressure Process) or C9 (Plywood - Preservative Treatment by Pressure Process). Inspected in accordance with American Wood Preservers' Bureau (AWPB) Procedure LP-22 (Quality Control and Inspection Procedures for Softwood Lumber, Timber, and Plywood Pressure Treated with Waterborne Preservatives for Ground Contact), and stamped with AWPB quality mark "Ground Contact LP-22"

3.3.4 All lumber and plywood not used in ground contact shall be pressure treated with waterborne preservative in accordance with AWPA Standard C2 or C9, inspected in accordance with AWPB Procedure LP-2 (Quality Control and Inspection Procedures for Softwood Lumber, Timber, and Plywood Treated with Waterborne Preservatives for Above Ground Use), and stamped with AWPB quality mark "Above Ground LP-2"

3.3.5 The in-plant inspector shall verify that all pressure treated foundation material is cut from AWPB stamped stock and that all cuts and holes are retreated per specifications. LP-2 and LP-22 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

3.3.6 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 the tolerance allowed in Section 1.

3.3.7 Installation shall be permitted on soil, concrete or asphalt concrete 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 Agency Architect and DSA. Pads shall be designed for a maximum load of 1000 PSF. Pads shall not be placed on turf

3.4 **Framing:**

3.4.1 Steel frames and steel studs on maximum 16" centers are acceptable. Wood construction and roof and floor sheathing shall meet the following minimum requirements

Roof:

Beam - Press formed tapered cee Roof Beam 14"/19" x 3 5/8" x 10 gauge
Header - Press formed Cee
14" x 3 1/2" x 12 gauge (Dual Slope Roof)
24" x 3 1/2" x 12 gauge (Mono Slope Roof)
Purlins - 8" x 2 1/2" x 14 gauge 'Z' at 48" o.c.
(Optional 4 1/2" x 2 1/2" x 12 gauge 'Z' or 4" x 3" x 12 gauge Cee.)
Plywood Sheathing - 3/4" C-D Plywood, Exposure 1, Rated Sheathing, 48/24 span index, square edge, per PSI 1-95. Roof Sheathing to be attached to steel purlins per drawings.

Wall Framing Studs:

Studs - Douglas Fir/~~Larch or Hem Fir Stud Grade or better~~ NO. 2 GRADE
Sill - Douglas Fir/~~Larch or Hem Fir standard or better~~ NO. 2 GRADE
Top Plate - Douglas Fir/Larch ~~or Hem Fir standard or better~~ NO. 2 GRADE
Headers - Douglas Fir/Larch ~~or Hem Fir as noted on drawings~~ NO. 2 GRADE min. 2-2x4 on edge with 1/2" apa rated plywood Exposure 1 filler.
Blocking - Douglas Fir/Larch or Hem Fir standard or better....
Fire Blocking Per Title 24, California Building Code, Section 708.

Wall Framing (Optional Steel Studs):

Studs - Roll formed Cee 3 1/2" x 1 1/2" x 20 ga. with 1 1/2" diameter knock-outs at 2'-0" o.c.
Track - Press formed Cee 3 9/16" x 1 1/2" x 20 ga.
Blocking - 3" x 16 gauge steel strap.

Floor:

Perimeter Channel - 7" x 9.8 lb. steel 'C' channel, ASTM A-36.
Joists - 6 3/8" x 2 1/2" x 12 gauge 'C' or equal.
Plywood - 1 1/8" Thick Subfloor/Underlayment panel, 48" span rating, T&G, Exposure 1, APA Sturd-I-floor of TECO Floor Span. Subfloor to be attached to steel floor joists per drawings.

Columns:

TS 3 1/2" x 3 1/2" x 1/4", ASTM A-500, Grade B.

3.4.2 Moisture content of framing lumber shall not exceed 19%. Framing lumber shall be stamped "S-Dry" or "MC15"

3.4.3 MSR 1650 E1.6 may be substituted for No. 2 grade if it meets the structural requirements for floor and roof members

3.4.4 Lumber grades and machine stress-rated (MSR) lumber requirements are defined in Standard Grading Rules for Western Lumber, latest edition

3.5 **Exterior**

3.5.1 Siding: Exterior siding shall be medium density overlay plywood (MDO) or Duratemp plywood siding produced by Miller Redwood Company. PD must approve alternate sidings prior to submittal of bid. The medium density overly plywood shall be APA rated exterior type per APA 303-O/L. MDO siding shall be Simpson "Guardian", K-Ply "Royal Rough Sawn", or equivalent approved in advance and in writing by PD. The Duratemp plywood siding shall consist of 4 layers of wood veneers and a textured oil-tempered 1/8" thick hardboard face. Product shall be APA rated exterior type. Both the MDO and Duratemp siding shall meet the following requirements

A. Each panel shall be identified with the grade mark of the grading association and shall meet the requirements of Product Standard PS 1-83.
B. Siding shall be 19/32" (minimum) thick x 4' x 8' minimum with shiplap at long edges and of one of the following styles: plain, V-grooved, grooved or reverse board and batten.
C. All panel edges and ends shall be sealed with a heavy coat of high grade exterior house primer or an aluminum primer formulated for wood before installation. All horizontal joints in siding and between skirting and siding must be flush and protected with a galvanized iron "Z" type flashing. All vertical shiplapped joints shall have 1/16" clearance between panels. A 3d or 4d galvanized finish nail may be used as a gauge between panels and left in place

3.5.2 Moisture Barrier: All weather-exposed surfaces shall have a weather-resistive barrier to protect the interior wall covering. Such barrier protection shall be equal to that provided for in U.B.C. Standard No. 17-1 for kraft waterproof building paper or U.B.C. Standard No. 32-1 for asphalt-saturated rag felt. Barrier shall be free from holes and breaks other than those created by fasteners and construction system due to attaching of the building paper, and shall be applied over studs or sheathing of all exterior walls. Barrier shall be applied weatherboard fashion, lapped not less than 2 inches at horizontal joints and not less than 6 inches at vertical joints, including corners. Moisture barrier as described above shall not be applied to Type III (Snow Load) buildings.

3.5.3 Exterior Trim. All windows, corners, and door openings shall receive trim of at least 1" x 4" size. The roof edge shall receive at least 2" x 8" size. The trim shall be rough or resawn D select Douglas fir, Hem-fir, or spruce. Trim shall be sealed at all edges with polyurethane based one part (no mixing required) caulking, Vulkum or Sikaflex brands or equivalent approved in advance and in writing by PD. Caulking shall be painted to match siding or trim color unless it is the transparent type. At roof edge only, 7/16" thick minimum embossed weatherboard siding with MDO surface may be used in lieu of 2" x 8". Back of trim and fascia shall be kerf sawn to prevent cupping. At roof edge and building corners only, exposed steel roof beams and columns are acceptable in lieu of wood trim.

3.5.4 Skirting: Skirting shall be the same thickness and type of plywood used for siding except that plain ungrooved material shall be used where the long direction of the sheet runs horizontal. If grooved plywood is used for skirting, the grooves shall match and line up with the grooves in the siding. All edges and the bottom of the skirting shall be supported and the entire space below the building shall be closed off. Minimum 1-1/2" clearance shall be maintained from the bottom of plywood skirting to finish grade. Skirting shall not be nailed to ends of boards or edges of plywood. Minimum 18 gauge expanded galvanized metal fresh air vents or approved vandal resistant equal with a minimum net area of 7.5 square feet shall be provided.

3.5.5 **Doors and Frames:**

3.5.5.1 Doors and frames shall meet the requirements of ANSI (American National Standards Institute)/SDI-100-91 (Recommended Specifications-Standard Doors and Frames) for heavy duty full flush type (Grade II, Model 1). Doors and frames shall be provided by one manufacturer and primed and finished at the manufacturer's facilities.

3.5.5.2 Doors shall be swing out type, 1-3/4" thick, fully insulated, minimum R-14 polyurethane core, with minimum 18 gauge steel face sheets. Doors shall be factory prepared and reinforced for indicated finish hardware, including reinforcement on both faces for closers. One complete coat of metal primer shall be applied in the door manufacturer's shop after doors are chemically treated for paint adhesion.

3.5.5.3 Frames shall be pressed steel, knock down or welded type. Thickness of metal shall be minimum 16 gauge with depth to suit wall thickness. A minimum of 3 concealed anchors per jamb and adjustable floor anchor at bottom of each jamb shall be provided. Frames shall be prepared and reinforced for required hardware, including strike box and reinforcement for closers. Metal frame cavity shall be completely filled with insulation. One complete coat of metal primer shall be applied in the door manufacturer's shop after frames are chemically treated for paint adhesion.

3.5.5.4 Size and number of hinges shall be as recommended by door manufacturer. Hinges shall be full mortise type; solid brass or bronze, with set screw in barrel and minimum of two ball bearings. A Stanley FBB191, Hager, or equivalent approved in advance and in writing by PD and OPSC may be used.

3.5.5.5 A closer shall be provided that is recommended by manufacturer for door size. Closer shall be Norton series 8500DA, LCN 1460 DEL or equivalent approved in advance and in writing by PD & OPSC

3.5.5.6 A classroom lever handle lockset, mortise or cylindrical type with US26D finish, shall be provided. Lockset shall be Schlage D70PD or L9010 or equivalent approved in advance and in writing by PD & OPSC

3.5.5.7 Threshold saddle shall be extruded aluminum, minimum 5" wide. Door shoe shall be extruded aluminum with vinyl insert. Saddle shall be PEMKO 271A or 272A or equivalent approved in advance and in writing by PD. Door shoe shall be PEMKO 216AV or equivalent approved in advance and in writing by PD & OPSC

3.5.5.8 All exterior doors shall be weatherstripped at doorjambs and head with PEMKO 299PDV or equivalent approved in advance and in writing by PD &OPSC. Ceco series WDWCDR factory weatherstripped doorframes are also acceptable

3.5.5.9 [Lockset] Quality #44 or equivalent approved in advance and in writing by PD &OPSC.

3.5.6 Roof

3.5.6.1 The roofing system shall be fire retardant per U.B.C. Standards. Test results showing the roofing system will withstand the uplift of a 80-mph wind shall be submitted with the plans and specifications. Built-up roof systems are not acceptable. Roof construction shall be one of the following

A. Pre-finished minimum 26 gauge galvanized sheet metal over 30 pound saturated felt underlayment and minimum 1/2" CDX plywood deck. Panels shall be unpenetrated, interlocking, mechanically crimped standing seam or ribbed type. For roofs with snow loads, each lap shall have a full-length sikaene or equivalent sealant applied

B. Building manufacturer's standard pre-finished, minimum 22 gauge, galvanized steel, standing seam or ribbed type, interlocking roof panels. Provisions shall be made for the control of condensation on the underside of the panels. For roofs with snow loads, each interlock shall have a full-length sikaene or equivalent sealant applied.

3.5.6.2 Design and installation of the deck and/or roof substrate shall result in the roof draining freely. Areas where water ponds for more than 24 hours are unacceptable and shall be corrected by the manufacturer.

3.5.6.3 All overhangs shall present a finished appearance. Soffits shall be enclosed with no framing members visible. Soffit material shall be minimum 3/8" plywood of the same type as used for siding. If grooved material is used, grooves shall match the grooves on the exterior siding. Plywood soffit material shall be applied with long direction running parallel to the length of the building. Soffit shall be neatly and closely fitted and trimmed to cover gaps. All enclosed soffit areas shall be ventilated per the U.B.C. If an all-metal roof is employed, the bottoms of the metal roof pans are acceptable in lieu of the enclosed soffit.

3.5.7 Entry Stoop and Ramp:

3.5.7.1 Each door shall be provided with a stoop and ramp conforming to Title 24, C.C.R. Section 2-3307. The stoop and ramp structure, including handrail and wheel guides shall be prefabricated metal in sections that are demountable for moving and reinstallation at a new site. There shall be sufficient cross bracing under the ramp surface to prevent bounce or oil canning of the ramp surface. Design shall be such that height adjustment can be made at the installation site. At all site installations, the ramp shall be completely installed. The ramp shall be of sufficient length to transition from finish floor to within 1-1/2" of the grade elevation on a level site when building is set at it's lowest possible finish floor elevation. The ramp shall comply with DSA regulations and Title 24, C.C.R. before the building will be accepted by the State. The ramp shall comply with DSA regulations and Title 24, C.C.R. before the building will be accepted by the State.

3.5.7.2 The ramp and landing surface shall be a minimum 12 gauge steel deck with non-skid finish applied. Non-skid finish shall be AMCO GRIP II by American Chemical Company, Monochem Dex-Coat or Monochem Floorcoat or equivalent approved in advance and in writing by PD. Alternate Ramp Surface: Perforated and dimpled metal decking, "Dimple Plate" by Duss Perforating Co. Inc. or equivalent may be used in lieu of solid decking with applied non-skid finish. Dimple plate shall be minimum 14 gauge steel plate with dimples on 3/4" staggered centers. Dimples shall be 1/4" high x 3/8" wide with 1/8" hole.

3.5.7.4 All ramp and landing surfaces shall be painted. Ramps shall have handrails on both sides. Wall mounted handrails shall be of similar construction to the integral ramp handrail.

3.5.7.5 Ramp and landing shall be fully skirted to the ground with the same material used for building skirt. All edges of the plywood skirt shall be supported and protected from weather. Foundation members shall be the same as those used for building foundation. Only the foundation pad resting on grade may extend beyond the outside face of the skirt by a maximum of 1".

3.6 **Interior:**

3.6.1 Walls: All classroom interior walls shall be vinyl-covered tackboard applied in one continuous length from floor to ceiling. The tackboard shall be industrial insulation board manufactured specifically as a substrate for vinyl covered wall panels. The board shall be asphalt free, shall have an ironed-on coating and shall have a minimum density of 16 pounds, per cubic foot. The vinyl coating shall be made of virgin vinyl, weighing a minimum of 8 ounces 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 3/8" plywood sheathing. The vinyl wall covered panel shall have a Class III flame spread rating. Care shall be taken in mounting the tackboard so that the texture of all panels will have the same orientation and color match. Tackboard shall be manufactured by Domtar Gypsum America, Chatfield-Clark, De'Cor Gravure Corporation, or equivalent approved in advance and in writing by PD & OPSC.

3.6.2 Suspended Acoustical Ceiling and Acoustical Panels: Ceiling that supports light fixtures or grills shall have a minimum classification of Heavy Duty per American Society for Testing and Materials (ASTM) C635 (Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings). Grid shall be direct hung in strict accordance with Title 21 C.C.R. and Title 24 C.C.R. and I.R. #47-4 issued by DSA. Acoustical panels shall be minimum 5/8" thick x 24" x 48" square edged mineral fiberboard or vinyl-faced fiberglass lay-in panels. Panels shall have a maximum flame spread index of 24 (ASTM E84) and a minimum noise reduction coefficient of 0.65. Contractor shall inspect after installation and replace exposed members with dents or defects.

3.6.3 Markerboard(s): Markerboards shall have minimum 28-gauge metal facing sheet with porcelain enamel finish suitable to accept dry erase felt markers. The facing sheet shall be laminated, using a hot melt adhesive, to a medium density particleboard substrate with a minimum density of 45 pounds per cubic foot. The panel shall have a foil backing, extruded aluminum molding, and chalk rail with a minimum projection of 2.75" from the face of the panel. A full-length map rail shall be provided with cork insert and end stops. The map rail and chalk rail shall incorporate a channel to wrap around the panel. Three map hooks with clips shall be provided on each panel. One 1/2" flag holder shall be provided for each classroom. Markerboards shall be manufactured by Chatfield Clarke, Tri-Best Products, Nelson Adams (NACO) or equivalent approved in advance and in writing by Procurement Division. Care and use instructions shall be provided with each markerboard.

3.7 **Electrical:**

3.7.1 Lighting

3.7.1.1 The Contractor shall furnish an interior fluorescent lighting system that includes the following:

A. Overall illumination at desk level (30" above the floor) of an average of 50 foot-candles.
B. Clear acrylic prismatic lens
C. Built-in reflector housing. Must be full length and width of the fixture
D. Lamps shall be energy saving type, bi-pin rapid start, T8, 32 watt, 48", with 3500K phosphor, a CRI of 75, initial output of 2850 lumens and a minimum life expectancy of 20,000 hours. A preprinted sticker shall be provided inside each fixture indicating: "Re-lamp only with T8 32 watt lamps with 3500K phosphor."
E. Ballasts for fluorescent lamps shall be rapid-start energy saving high-frequency electronic type, Class P, high power factor (greater than 0.95), sound rating A, current crest factor less than 1.70, harmonic distortion less than 10%, lamp flicker less than 2% and a ballast factor of 0.85 or greater.

3.7.1.2 An exterior light shall be provided at each exit. Light shall be fluorescent, minimum 13 watts, surface mounted with 120-volt ballast. Lens shall be minimum 1/8" thick, gasketed, and provided with tamper-proof stainless steel screws. Light shall be Kenall 3714, Lithonia 202 2/7PL LP, Lithonia TWL 13TT or equivalent approved in advance and in writing by PD & OPSC. Exterior lights shall be controlled by a wall switch on the interior wall adjacent to the door and by a photoelectric cell mounted in a weatherproof junction box with weatherproof cover.

3.7.1.3 Light switches shall be Hubbell Premium Grade, Bryant Heavy Duty Grade, or Leviton 1221. Convenience outlets shall be specification or hospital grade.

3.7.2 Convenience outlets, computer outlets, data junction boxes, intrusion alarm junction box, and conduit shall be provided as indicated on attached "Power and Data Plan" for Types I, III, and IV and on Floor Plan for Type II buildings.

3.7.3 Contractor shall provide panel schedule with electrical load calculations on drawings

3.7.4 An Eagle, Bryant, Slater, or Leviton clock outlet and 12" wall clock shall be installed as indicated on Floor Plan or Power and Data Plan.

3.7.5 All electrical wiring 110V and greater shall be in conduit systems and shall meet or exceed the requirements of National Electrical Code. Minimum conduit size shall be minimum 1/2". Conduit shall be galvanized thin wall electrical metallic tubing (EMT) or galvanized steel flex (with factory applied PVC jacket for exterior applications). All conduits shall be continuous from outlet to outlet and shall be secured in conformance with Part 3, Title 24 of the California Code of Regulations. Field bends shall be avoided wherever possible. Where bends must be made, an appropriate "Hickey" or bending machine shall be used. All conduit shall be reamed and deburred prior to installation and shall terminate in appropriate bushings or conductors

3.7.6 Wiring shall be minimum #14 copper type TW, THW, THHN or THWN as applicable. Conduit fill shall not exceed requirements of Part 3, Title 24 of the California Code of Regulations. A separate grounding conductor shall be pulled throughout the entire system. Care shall be taken to avoid damage to wire or insulation during pull-in. Powdered soapstone or a pulling compounds such as "Yellow 77" lubricant shall be used if necessary

3.7.7 Electrical connections stub out for Type II (Infant-Preschool) buildings shall be at electrical panel. For all other types, electrical supply connection shall be located on wall opposite door. Hook-up shall be performed by others

3.7.8 Contractor shall be responsible for providing necessary connectors and conductors to ground the metal portions of the building (i.e. frame, ramp, etc.). Grounding rod, wires and testing shall be provided by others and meet the requirements of I.R. #8-1 issued by DSA

3.7.9 All electrical circuit breakers shall be identified by permanent typed or computer printed adhesive label fixed on the inside of panel.

3.8 **Painting:**

3.8.1 All exposed surfaces shall be painted except aluminum window frames, thresholds, and prefinished items such as HVAC equipment. All painting shall be done per manufacturer's printed instructions

3.8.2 Exterior Wood: Wood siding, trim and skirting shall be painted with 100% acrylic latex paint that meets the requirements of State Specification 8010-xxx-098 with additional requirement that it be 100% acrylic latex paint. One coat of primer and at least one finish coat shall be applied. 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. Prime coat shall be allowed to dry according to manufacturer's recommendation. Prime and finish coats shall be compatible and manufactured by the same company. Exterior fascia and trim shall be backprimed to prevent cupping.

3.8.3 Interior Trim: All trim not precoated shall be painted with two coats of 100% acrylic semi-gloss latex over primer.

3.8.4 Metal: All ferrous metal surfaces shall be painted with two finish coats over rust inhibitive metal primer. Prior to application of primer, surfaces shall be clean, dry, and free of rust, scale, grease oil, dirt, and all other contaminants. Any surface oil and grease shall be removed by solvent wiping with mineral spirits. Acceptable metal primers are:

Ferrous Metal Primer Red Oxide: Sherwin Williams B50NZ6, Kelley Moore 1710, Dunn Edwards 43-4, Fuller O'Brien 621-04, Sinclair 15, Ameritone 54

White Rust Inhibitive Primer: Sherwin Williams B50W1, Kelley Moore 1711, Dunn Edwards 43-5, Fuller O'Brien 621-05, Sinclair 14, Ameritone 13201

PD & OPSC must approve other equivalent metal primers in advance and in writing before being used.

3.9 **Heating, Ventilating, Air Conditioning (HVAC):**

3.9.1 Heat Pumps

3.9.1.1 All work shall be in full accordance with applicable editions of American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE) Standards and Sheet Metal and Air Conditioning Contractors' National Association (SMACNA) Standards

3.9.1.2 Type IV buildings shall be provided with one primary and one auxiliary heat pump. All other buildings shall be provided with a single primary heat pump.

3.9.1.3 Contractor shall furnish and install one-piece, wall mounted, factory-assembled, precharged prewired, tested and ready-to-operate heat pump unit(s). The unit(s) shall be approved and listed by Underwriters' Laboratories, Inc. or other nationally recognized testing organization. Performance of units shall be certified in accordance with Air Conditioning and Refrigeration Institute Standard 210/240 for Unitary Air-Source Heat Pumps, latest edition. The same company shall manufacture primary and auxiliary heat pumps. All units shall be 230/208 volt 1 phase system, and meet current energy standards. MINIMUM SEER RATING = 12.0

3.9.1.4 The HVAC system shall maintain an automatically controlled indoor classroom temperature of 78°F in summer and 68°F in winter with a 50% relative humidity when the outdoor temperatures vary as indicated below

Building Type	SUMMER	WINTER
Type I	92°F db/72°F wb	+10°F db
Type II	92°F db/72°F wb	+10°F db
Type III	92°F db/72°F wb	+10°F db
Type IV	114°F db/72°F wb	+10°F db

Calculations shall be based on 32 occupants. The mechanical ventilation system shall provide a minimum of 15 cubic feet of outside air per minute per occupant and a minimum of 50 cubic feet of air per minute per occupant

3.9.1.5 Compressors shall be welded hermetic type with built-in thermal and over-current protective devices and a 5-year warranty.

3.9.1.6 Coils shall be of copper tube construction with mechanically bonded aluminum plate fins.

3.9.1.7 Indoor coil blower shall have a direct drive forward curved centrifugal impeller that delivers a minimum of 1700 cfm (primary heat pump) or 1200cfm (auxiliary heat pump) of air through a wet coil with an external static pressure of 0.25" wc at high speed. Twin blowers are acceptable

3.9.1.8 Propeller type outdoor coil fan shall discharge horizontally and be direct driven

3.9.1.9 Controls shall be factory wired and located in a readily accessible location on the unit. Fan motors shall have both thermal and current sensitive overload devices. Control circuit transformer shall be factory installed. Line voltage circuit breaker or pull disconnect with lockable cover shall be supplied on each unit and shall be easily accessible without removing any unit panels

PC

CBC 1998

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 103677 DATE OCT 23 2001
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 103216 DATE 6/14/01
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IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 106169 DATE 4-14-04

BGH PROJECT NO. 200019.31

REVISIONS 1 2 3 4 5 | Electrical Engineer's Seal | Mechanical Engineer's Seal | Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

SPECIFICATIONS

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DRAWN BY: DATE: 2/21/01
CHECKED BY: SS DATE: 10/22/99
MODTECH Index No. A8.0

AGENCY APPROVAL DSA# 02-121945 39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-121945 INC: REVIEWED FOR SS ☑ FLS ☑ ACS ☑ DATE: 12/12/2023

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION
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THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
SPECIFICATIONS

DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.
A8.0
DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 11/28/2023 9:11:51 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK8V.rvt

3.9.1.10 Cabinet shall be a single, enclosed, weatherproof casing constructed of minimum 20 gauge galvanized steel. Each exterior casing panel shall be finished with enamel paint prior to assembly. Cooling section shall be fully insulated with 1-inch fiberglass to prevent sweating and to muffle sounds. Openings shall be provided for power connections. Access openings for all fan motors and compressor shall be designed so that repairs and removal of internal components can be accomplished without removing the unit from its permanent installation. Full-length side mounting brackets shall be provided. Fresh air intake and outdoor coil shall be protected from intrusions by a sturdy metal grating

3.9.1.11 Primary heat pumps shall be equipped with an internally mounted damper system that will intake a minimum of 480 cfm of outdoor air and exhaust the equivalent volume of conditioned air. System shall be electrically controlled with a minimum of four different damper settings. Damper system shall automatically open to admit outdoor air when unit is on and automatically close when unit is off or power is lost. Damper system shall be approved by U.L. or other nationally recognized testing agency. Outdoor air shall be filtered through the replaceable filtering system. Each building shall be tagged with a minimum 4" x 2" engraved plastic adhesive-backed label mounted on face of the thermostat with the following information:

✱ The OPSC recommends the replacement of the heat pump filter every thirty days.

✱ Heat pump filter dimensions are 20" x 30" x 1"

3.9.1.12 Primary heat pump shall have a minimum total cooling capacity of 58,500 BTU/HR with an outdoor temperature of 90°F and a returning air temperature of 80°F db/67°F wb (no outdoor air) Auxiliary heat pump shall have a minimum cooling capacity of 24,000 btu/hr with an outdoor temperature of 115° and a returning temperature of 80° db/67° wb.

3.9.1.13 For Types I buildings, a minimum of 10Kw electric resistive heating shall be provided on primary heat pump. The resistive heating shall be configured so that it can be changed to approximately 5 Kw capacity or 0 Kw capacity by adding or removing a few easily accessible wires. Controls shall be configured so that heat pump compressor and resistive heating can operate simultaneously.

3.9.1.24 The unit shall be installed in strict accordance with manufacturer's instructions with particular attention to required flashing. Manufacturer's literature, certified ventilation tables, operating instructions and guarantee shall be delivered to the school district of child care agency at the time the building is delivered.

3.9.2 Ductwork

3.9.2.1 Ductwork shall be constructed of galvanized sheet metal in accordance with Uniform Mechanical Code and SMACNA Low Velocity Duct Construction Manual, latest editions. All ductwork shall be insulated with minimum 1" thick fiberglass duct wrap with vapor barrier, a minimum of 1" duct noise attenuation material shall be provided at all ductwork within 8'-0" of hvac unit. Air handling ducts and plenum shall be sealed in accordance with SMACNA HVAC Duct Construction Standards - Metal and Flexible, latest edition. Primary and auxiliary heat pumps shall be provided with their own duct systems. primary and auxiliary duct systems shall not be connected.

MINIMUM SEER RATING "12.00"

Non-Metallic Ductwork Option: In accessible concealed portions of duct system, rigid 1" fiberglass or insulated "Flexduct" with vapor barrier may be substituted for sheet metal ductwork. All ductwork within 5' of the HVAC unit and all interface connections shall be metal. Ductwork and reinforcement shall be designed for 2" static pressure. If used, ducts shall be Owens-Corning Fiberglass Duct Board, Manville Micro-Aire Type 475, or equivalent approved in advance and in writing by PD. Non-metallic ductwork shall conform to NFPA 90-A and 90-B and SMACNA Class I rating, FLAME SPREAD 0-25, SMOKE DENSITY 0-60.

3.9.2.2 Each duct system shall be provided with a minimum of two 4-way throw commercial grade supply diffusers with opposed blade volume control as manufactured by Carnes, Hart & Cooley, Barber-Coleman, Krueger, Shoemaker, Titus or Air Mate. Return air grille shall be heavy-duty bar grille with 45-degree blades similar to Carnes model RSHAH

3.9.3 Thermostat: Contractor shall provide a White Rodgers 1F82 or Honeywell T8611M, electronic programmable thermostat for the primary heat pump with the following functions: 5 and 2 weekday/weekend programming with minimum of 4 separate time/temperature settings per 24-hour period, Keyboard lockout switch, Programmable display, Minimum 2 hour override, Status indicated LEDs, Battery back-up or EEPROM memory. A locking clear thermostat cover with access hole for program override shall be provided. A 9-wire thermostat cable shall be supplied between thermostat and heat pump

3.9.4 Auxiliary heat pump primer: Contractor shall provide a 4 hour maximum manual time switch wired in series with an "Off-Heat-Cool" control switch that will allow cooling and heating by auxiliary heat pump. Timer and control switch shall be flush mounted on twall on which heat pump is hung.

3.9.5 Ventilation Controller: A ventilation controller shall be provided that monitors the carbon dioxide level in the classroom air and controls the ventilation by opening or closing the damper. Controller shall display CO_2 levels on a built-in display from 0-5,000 ppm. Unit shall be designed so those users can set point at which damper opens and point at which damper closes. Controller shall be initially set so that damper opens at 800 ppm and closes at 600 ppm. Unit shall be certified by the California Energy Commission and shall have a recommended calibration interval of at least 5 years. Controller shall be located on an interior wall and provided with a wire bell guard that is screwed to wall. Controller shall be Engelhard Ventostat 8002W or Honeywell C7242A or equivalent approved in writing by Procurement Division after June 1, 1999.

3.9.6 Air Balance Test: For each building type, Contractor shall perform an air balance test on a completed building. Test shall determine optimum position of diffuser dampers and position of ventilation damper that will provide 480 cfm of outside air. All buildings shall be supplied with dampers set in positions determined by test. Test shall be witnessed and verified by the Inspector of record.

3.10 Fire Alarm and Extinguisher:

3.10.1 Fire Alarm: Contractor shall provide conduit and junction boxes for future connection to school fire alarm system by others. Junction boxes shall be galvanized sheet metal, square or rectangular, with blank covers. One box shall be located externally at rear of building near main electrical panel at 18" above finish floor. One square 2-gang junction box shall be located internally near exit door at 48" above finish floor for future pull station. One square 2-gang junctio box shall be located at exterior front wall at minimum of 96" above finish floor for alarm horn. Finish covers shall be installed at all locations. At exterior locations, covers shall be gasketed, metal and weatherproof. Conduit shall be installed from alarm pull switch junction box to horn junction box and from junction box mounted near electrical panel to horn junction box. Conduit shall be minimum 1/2" galvanized thin wall electrical metallic tubing (EMT). Continuous pull cord shall be installed for future wire installation. Fire alarm conduit shall not be connected with any other electrical conduit.

3.10.2 Fire Extinguisher: Each portable classroom shall be equipped with one pressure type fire extinguisher with 2A10BC UL rating mounted on an interior wall near a doorway at a height of fou feet. Fire extinguisher shall be totally charged and have a dial indicating the state of charge. Mounting hardware shall include a strap with quick release device to hold the extinguisher in place

3.11 Materials and Workmanship

3.11.1 Asbestos containing building materials that exceed State and Federal mandated safe asbestos levels shall not be used in the construction of relocatable facilities. The manufacturer shall provide a statement of compliance on the plans.

3.11.2 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 Agency Architect that such is the case

3.11.3 All workmen shall be skilled and qualified for the work that they perform. Contractor's crews assigned to any work performed under this contract shall include a competent and fully experienced person designated as the responsible person in charge. Responsible person shall be identified by name to OPSC in advance of any work. If requested, the Contractor shall furnish to the Agency Architect information relating to any employee's experience.

3.11.4 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

3.12 Inspection

3.12.1 Buildings To Be Constructed After Bid Opening Date: In-plant inspection services shall be provided by independent contractors retained by OPSC. In-plant inspection and material testing shall be accomplished under the supervision of the Agency Architect. The contractor shall notify OPSC at (916) 445-3160 and the Agency Architect at least 5 working days prior to beginning of production on each building. Payment will not be made on buildings where this requirement is not met. The Agency Architect and inspector shall have full access to all plant operations involving work under this contract. The inspector shall be notified in advance of the time and place of operations that the inspector wants to observe. Before the building is removed from the plant for delivery to the storage facility or from the storage facility to the site, the inspector and Agency Architect shall determine that they are acceptable and issue a written release which shall be in the form of a Verified Report (Form SSS-6). A COPY OF THE INSPECTOR'S VERIFIED REPORT INDICATING THERE ARE NO PUNCH LIST ITEMS SHALL ACCOMPANY EACH BUILDING TO STORAGE OR TO THE SITE.

3.13 General

3.13.1 Energy Conservation: Building shall comply with Title 24, Part 2, and Chapter 2-53 of the California Code of Regulations. These regulations are also contained in California Energy Commission Publication P400-92-001 (Building Energy Efficiency Standards for New Buildings). Title 24 documentation shall be provided for plancheck and submittal to DSA.

3.13.2 Tagging. Each module shall be permanently identified with a minimum 3" x 1-1/2" stamped metal (not foil) identification tag with the following information: 1) OPBC building number, 2) Design wind load, and 3) Design roof live load. This tag may be in addition to or to be combined with the identification tag required by the Division of the State Architect. An additional tag indicating the OPSC number and the DSA number shall be installed inside the electrical panel

3.13.3 Finish and base materials at each module, except roofing, carpet and suspended ceiling shall terminate at interior module joints in a manner to join flush and tight with same material in adjacent module so that modules may be relocated with minimum cutting and patching

3.13.4 Each module placed in storage for ANY length of time (either in storage yard or on site) shall be closed up in a secure and weathertight manner protecting them from all damage. Modules shall be maintained in this manner until State acceptance at designated school site.

3.13.5 Submittal of engineering data or drawings by the Contractor and subsequent authorization to proceed by the owner or owner's representative shall not relieve the Contractor from responsibility for compliance with all applicable specifications. Deviations from any specification is acceptable only where authorized in advance in writing by the owner or owner's representatives. Where deviations were agreed to on an earlier contract, it shall not be assumed that these deviations will be accepted on the current contract.

3.13.6 Color Sample Submittals: Color samples shall be submitted to OPSC for selection for all items for which there are color options. Samples shall be submitted at an appropriate time so those color requirements are incorporated into drawings or reference documents prior to construction

3.13.7 Special Permits or Fees: Any special fees required by city, county, or State agencies for the delivery and/or installation of these modules shall be the responsibility of the contractor

4.0 Site Erection:

4.1 Once modules are delivered at the site, installation shall commence immediately and be pursued in a timely manner until complete. All modules called for at that site shall be scheduled for delivery and installation in one continuous time frame, at least two per week (Saturdays, Sundays and Holidays excepted). Failure to begin installation within 24 hours after delivery (Saturdays, Sundays and Holidays excepted) or failure to complete building installation to the approval of the State within ten calendar days after building delivery shall be considered a default of the Contract. The contractor shall furnish materials and equipment in ample quantities and at such times to assure uninterrupted progress of the work. Failure to provide adequate working force or material of proper quality, or failure in any other respect to prosecute the work specified herein shall be grounds for declaring default on the contract.

4.2 Security of the buildings against vandalism is the sole responsibility of the contractor until installation of the buildings, according to the terms of this contract, has been completed and the buildings have been accepted by the State or accepted for occupancy by the School District with State approval. The Contractor shall lock up all materials and equipment at the end of the day's work. All scrap material shall be removed from the site at the end of each day's work. The building site and the building shall be clean and ready for occupancy prior to acceptance by the State

4.3 Coordination of Work and On-Site Inspection: It shall be the Contractor's responsibility to make all necessary arrangements with the School District's Authorized Representative for access to grounds and removal of equipment, if necessary. The representative's name and address is available from OPSC. This contact shall be made at least 48 hours prior to delivery of any module. The site inspector hired by the district shall do on-site inspection. All work, which the manufacturer or his subcontractors perform at the site, shall be subject to the inspection of the site inspector. The manufacturer shall furnish the site inspector with a full set of approved plans and 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 DSA and the District's designated Inspector/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. In the event buildings are delivered to any site that is not in condition to receive buildings, the contractor shall be responsible for all costs incurred including, but not limited to, INSPECTOR'S time

4.4 Temporary Facilities: Contractor shall make arrangements for and provide his own temporary water, electric light and power, field office, corporation yard, parking and toilet facilities as may be required for each of the sites.

5.0 GUARANTEE: Contractor shall unconditionally guarantee that work will be done in accordance with requirements of contract, and that the work will remain free of defects in workmanship and materials for a period of one year from date of acceptance by the State. Contractor shall agree to repair or replace any and all work, together with any other adjacent work which may have been damaged or displaced in so doing, that may prove to be not in accordance with requirements of contract or that may be defective in its workmanship or material within guarantee period specified, without any expense whatsoever to the State. Contract bonds shall be in full force and effect during guarantee period. Within ten calendar days after being notified in writing by the agency of any work not in accordance with requirements of contract or any defects in the work, contractor shall commence and prosecute with due diligence all work necessary to fulfill terms of this guarantee, and to complete the work within a reasonable period of time. In the event the contractor fails to comply, the agency shall proceed to have such work done at contractor's expense and contractor shall pay cost thereof upon demand. State shall be entitled to all costs, including reasonable attorney's fees, necessarily incurred upon contractor's refusal to pay above costs.

STATE OF CALIFORNIA
Bid Specification

Building, Classroom, Prefabricated, Relocatable, Type I 5410-XBS-029
(Standard Without Restrooms) MARCH 2000

Office of Public School Construction (OPSC)

1.0 SCOPE: This specification establishes the specific requirements for standard relocatable prefabricated classrooms without restrooms. Building shall also comply with general requirements contained in State of California Bid Specification 5410-XBS-028, Building, Classroom, Prefabricated, Relocatable, General Requirements.

2.0 SPECIFICATIONS AND STANDARDS: Specifications and standards referenced in this document in effect on the opening of the invitation for Bid form a part of this specification where referenced.

3.0 REQUIREMENTS

3.1 Windows:

3.1.1 Anodized aluminum (6040) frame 5/8" minimum dual pane window units shall be provided on opposite walls. One window shall be in the same wall and a minimum of two feet from the door. Interior window opening shall be completely cased with solid wood molding or prefinished paneling with prefinished trim. Window frame shall be the 50%, double sliding sash type (XOX). Glazing materials shall be

Exterior lite - 3/16" minimum tempered glass or laminated AS-1 LOW-E GLASS (CARDINAL GLASS COMPANY, LO-E² 172, OR EQUIVALENT) type with a maximum light transmission factor of 48% Interior lite - 1/8" minimum clear tempered.
Space - Bent or sealed corner aluminum with desiccant fill.
Sealer - Butyl primary seal and polysulfide or silicone secondary seal.

3.1.2 Certification-All glazing shall be certified in accordance with ASTM E-773 (Test Method for Seal Durability of Sealed Insulating Glass Units) and E-774 (Specification for Sealed Insulating Glass Units)

3.1.3 Header height shall be the same as the door. All operable sash shall have aluminum screens. Windows shall not be mounted to the exterior plywood surface.

3.1.4 Windows shall be dual-commercial type (HS-C20) meeting requirements of American National Standard Institute (ANSI)/American Architectural Manufacturers Associate (AAMA) Standard 101, Voluntary Specification for Aluminum Prime Windows and Sliding Glass Doors.

3.1.5 A minimum of 6" of shingle style kraft paper flashing shall be installed around all windows. Minimum 26 gauge G.I. flashing shall be installed at head.

3.2 Floor Covering: All units shall be carpeted with direct glue down type per State of California Specification 7220-XXX-04 (Carpet, Broadloom, Nylon, Tufted, Commercial grade, 26 Ounce, Level or Multilevel Loop Pile), Type 1. Color will be selected by agency after award of bid. Cross seams are unacceptable. Resilient cove base shall be solid color, molded rubber, minimum 1/8" thick, minimum 4" high. Preformed base pieces shall be used for corners. Cove shall be applied to complete perimeter of classroom. Cove base shall be Burke Rubber #802-P or equivalent approved in advance and in writing by PD. Adhesives shall be water based and shall be applied per manufacturer's written instructions.

3.3 Insulation:

3.3.1 Wall and floor insulation shall have a rating of R13. Ceiling insulation shall have a rating of R22. On buildings where a metal roof deck, metal beams or other metal elements are exposed above the ceiling, an interior moisture barrier shall be provided on the warm in winter side of the insulation in the ceiling are to prevent condensation on any metal surfaces. The moisture barrier shall comply with 25/50 Fire Hazard Classification Rating per ASTM E-84 and all seams or openings shall be sealed. Moisture barrier to be Convex CW600 flame spread 0-25 and a smoke density rating not to exceed 450 when tested in accordance with U.B.C. Standard No. 8-1.

3.3.2 Floor insulation shall be secure with a permeable material in a manner approved by the Agency Architect. The insulation support material shall prevent movement of the insulation during transportation. The insulation and support material shall be listed upon delivery to the site and shall completely cover the floor cavity.

3.4 Markerboards: Each classroom shall have two 4' x 8' panels installed side by side centered on one of the long walls.

3.5 OPSC/DSA Approval and Document Distribution

3.5.1 After notice of award, the successful bidder shall prepare plans, specifications, and calculations and submit two copies of them to the Agency Architect within 30 calender days of receipt of the order. All plans, specifications and calculations shall be signed by an architech(s), structural engineer(s), electrical engineer(s) and mechanical engineer(s) licensed by the State of California. The material sections of this specification and bid specification 5410-XBS-028 shall be incorporated into the bidder's plans and printed on the appropriate pages prior to submission to the Agency Architect for specification compliance check.

3.5.2 The Agency Architect shall return one set of the plans, specifications for corrections or issue a letter of compliance showing approval within 10 working days of receipt. Any notations or corrections required by the Agency Architect shall be incorporated into the plans and specifications and they shall be returned to the Agency Architect within 5 working days in the firm of one complete set of reproducibles and two complete set of prints. contractor shall have only one opportunity to correct plans at the Agency Architect level. resubmittals shall be delivered by express mail or may be delivered in person.

3.5.3 Once Agency Architect approval has been obtained, Contractor shall submit to the Agency Architect two complete sets of approved plans for each lot of buildings offered within 3 working days. The Agency Architect shall then submit to DSA for project approval and obtain a stockpile approval number for the specified number of buildings to be provided under the current contract. Final DSa approved plans shall be expressed mailed or hand delivered to Contractor within three working days. THE SUCCESSFUL BIDDER SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH MEETING THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE IN EFFECT AT THE TIME OF SUBMISSION TO DSA FOR FINAL APPROVAL. The Department of General Services will pay any charges from DSA which are incurred while obtaining final DSA building approvals.

3.5.4 The Contractor shall provide one set of reproducible approved plans for each school site listed within 5 working days after receiving the "Plan Letter". Plans shall be sent to each school district architect for use in obtaining site plan approval. proof of mailing shall be sent to OPSC within 3 working days.

3.5.5 Contractor shall not begin construction of the buildings until a written notice to proceed by the OPSC representative has been received. Notice will be provided within thirty days of project approval.

STATE OF CALIFORNIA
Specification

Paint, Latex Maintenance 8010-81J-098
August 1998

1.0 Scope This specification covers the requirements for latex based maintenance paint procured by the State of California.

2.0 SPECIFICATIONS AND STANDARDS Specifications and standards referenced in this document in effect on the opening of the invitation for Bid form a part of this specification where referenced.

3.0 REQUIREMENTS

3.1 FORMULATION: The manufactuer shall include in his formulation the necessary additives for control of sagging, leveling, excessive settlement and skin formatiom, drier absorption and other requisite qualities of a satisfactory working material.

3.1.1 REGULATORY REQUIREMENTS: This product must comply with local air pollution control district regulatoins and federal lead and mercury content laws.

3.1.2 CONDITION IN CONTAINER: Paint shall show no evidence of putrefaction, skinning, hard settled pigment or corrosion of the container. The paint shall be easily dispersible to a uniform condition by hand stirring.

3.1.3 COLOR: The paint shall be available in all colors.

3.2 MATERIALS:

3.2.1 The paint shall have no objectionable odor.

3.3 PERFORMANCE:

3.3.1 Must be a high quality paint with a minimum ten (10) year manufacturers warranty.

3.3.2 The paint shall have acceptable one coat coverage.

3.3.3 The paint shall brush, roll and be sprayable (airless) without filtering. The material shall have no objectionable pulling and the resulting film shall not sag , or run, and shall level to a smooth surface of satisfactory appearance with no coarse particles, blistering, fish eyes, orange peel, pitting or pinholes after drying. Drytime shall not be more than one (1) hour, set to touch.

3.3.4 Dry opacity of white paint shall not be less than 0.97, 3 mil wet film.

3.4 MANUFACTURERS QUALITY CONTROL PROGRAM: The manufacturer shall maintain a Quality Control laboratory sufficiently equipped and staffed for the control of all the requirements in this specification.

4.0 QUALITY ASSURANCE PROVISIONS

4.1 Sampling and Inspection; This commodity will be sampled and inspected for compliance to this specification as deemed necessary. Sampling and inspection by attributes will be in accordance with Military Standard, MIL-STD-105 Sampling Procedures and Tables For Inspection by Attributes. An inspection lot is defined as one delivery to one agency at one time.

5.0 PREPARATION FOR DELIVERY

5.2 Marking:

5.2.1 Containers: Each container shall be clearly labeled with the following information:

a. The descriptive name of paint (e.g. Latex Interior Wall Paint, Semigloss, Exterior, Finish Coat, etc.) and the door.
b. Batch number and date code. The manufacturers standard batch and date code are acceptable for this item if clearly marked and the key to any code is provided to the customer.
c. The manufacturers name.
d. Full instructions for surface preparation, application, thinning and equipment cleanup.
e. Recommended use of the product on various types of surfaces.
f. The approximate area covered per gallon (liter)
g. All paints containing flammable solvents shall have a caution warning on the label.

The vendors standard label is acceptable if it contains the above data. Those items unique to State Procurement may be added with small stick-on labels at the option of the vendor. The stick-on labels must not obscure other required data.

Labels for one- gallon (4 liter) cans and smaller shall be of the complete wrap-around type. Labels for the five gallon (19 liter) cans shall be at least seven (7) by eight (8) inches (18x20 cm) and shall be permanenty attached with permanent glue.

5.2.2 CARTONS: Each shipping carton shall be clearly labeled with the following information: Purchase Order Number, State Commodity Item Code Number, Descriptive Name of the Paint, Color, Batch Number, Date of Manufacture (Month and Year), Manufacturers Name.

5.3 SHIPPING: All packaging and shipping shall conform to applicable Federal and State Regulations and conform to good commercial practices. The gross weight of each shipping carton shall not exceed 65 pounds.

6.0 NOTES

6.1 WARRANTY: The shelf life of all protective coatings manufactured under this specification shall be not less than one year. Some 'soft settling' will be allowed, but the materials shall be easily redispersed with a hand paddle.

The State reserves the right, at any time within one year from date of acceptance, to check for conformance to specification any paint delivered under this specification. Any material failing to comply will be returned to the vendor for replacement and all expenses, including re-inspection and re-testing, shall be paid for by the vendor.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 103677 AC FLS SS DATE OCT 2 3 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 108169 AC FLS SS DATE 4-14-04

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 103216 AC FLS SS DATE 6/14/01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 01 102190 AC FLS SS AUG 2

LICENSED ARCHITECT FRED VINCENT HALLOCK No. C-34628 12/31/01 RENEWAL DATE STATE OF CALIFORNIA

PC

CBC 1998

REVISIONS		
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Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal

Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 AC FLS SS DATE

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER: .

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SPECIFICATIONS

DRAWN BY: . DH DATE: . 2/21/01.
CHECKED BY: GS DATE: 10/22/99

MODTECH Index No.
A8.1

FILE PATH:

PROJECT NO.

~~BGH PROJECT NO. 200019.21~~
BGH PROJECT NO. 200019.31

PC

AGENCY APPROVAL DSA# 02-121945 39-50

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION
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THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
SPECIFICATIONS

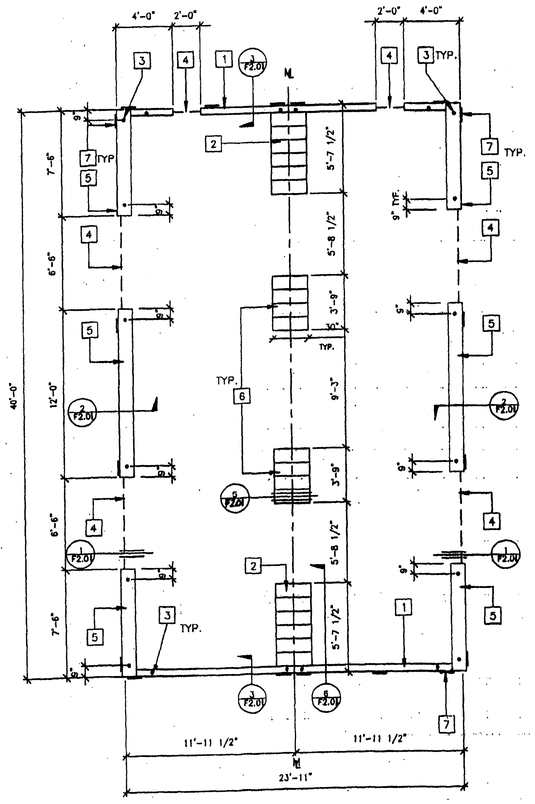
DRAWN BY: XXXXXX JOB NUMBER: 23219

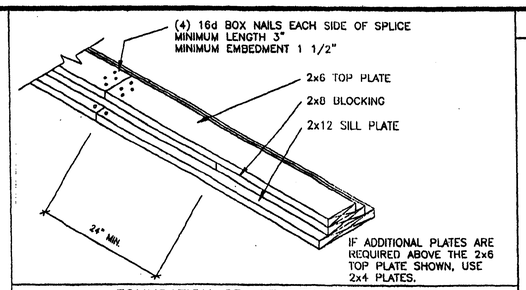
SHEET NO.
A8.1

DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 11/28/2023 9:11:51 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK8V.rvt





FOUNDATION SPLICE DETAIL

KEY NOTES

1. 2"X6" SILL PLATE (END WALL)
2. 6– 2X12X30" LONG SILL PADS
3. PIPE TO GRADE (TYP.)
4. 3" HIGH BY 6'–6" LONG VENT @ SIDEWALLS
   3" HIGH BY 2'–0" LONG VENT @ ENDWALLS
5. 2X12 SILL PLATE (SIDE WALL)
6. 4–2X12X30" LONG SILL PADS
7. 6"X12"X10 GA. PLATES
   5 @ ENDWALL, 4 @ SIDEWALL
8. NOT USED
9. NOT USED

NOTES

1. SILL RESTRAINT: ON A.C. PAVING AND ON SOIL 1" O.D. GALVANIZED PIPE AT 10'–0" 12" PENETRATION BELOW SURFACE VERTICALLY. DRILL SILL 1–1/4" MAX. PIPE MAY BE DRIVEN MAX. OF 45° ANGLE TO VERTICAL. (18–1/2" LONG PIPE REQUIRED FOR PENETRATION AT 45° ANGLE.)
2. ON CONCRETE PAVING HILTI DS 82–P10 THRU SILL PLATE:
   END WALLS: 8" O.C.
   SIDE WALLS: 22 "O.C.
3. WHERE SHIM STOCK IS REQUIRED FOR LEVELING USE 1/4", 1/2", OR 3/4" THICK PLYWOOD SAME WIDTH AS BLOCK. P.T.
4. VERIFY DRAINAGE TO PREVENT WATER FROM PONDING BENEATH THE STRUCTURE. WITH DISTRICT ARCHITECT SITE PLANS
5. ALL FOUNDATION MATERIAL SHALL BE DOUGLAS FIR
   GROUND CONTACT: LP–22 (CCA .40)
   ABOVE GROUND: LP–2 (CCA .25)
6. ALLOWABLE SOIL BEARING: 1000 PSF
7. "MACHINE APPLIED 16d FASTENERS SHALL HAVE AN EMBEDMENT OF NOT LESS THAN 1 1/2" INTO SECOND MEMBER, AND SHALL BE NOT LESS THAN 3" IN OVERALL LENGTH"

   THE ABOVE NAILS SHALL ALSO BE ACCEPTABLE FOR HAND NAILING, PROVIDED THE REQUIRED EMBEDMENT IS MAINTAINED.

VENT CALCS.

BLD'G SIZE 24' X 40' = 960
VENTILATION REQ'D 960 ÷ 150= 6.4SF
3"X6'–6" VENT=1.625SF X 4 = 6.5SF
3"X2'–0" = 0.5 SF X 2 = 1.0 SF
TOTAL VENTING PROVIDED = 7.5 SF

FOUNDATION – WOOD SILL 24' X 40' 50 PSF LL
SCALE 1/4" = 1'

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 108677 AC FLS SS DATE OCT 2 3 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 103216 AC FLS SS DATE 6/14/01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 108169 AC FLS SS DATE 4-14-04

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 101490 AC FLS DATE AUG 0 4 2004

LICENSED ARCHITECT No. C-19298 REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

LICENSED ARCHITECT No. 0-17788 REGISTERED PROFESSIONAL ENGINEER STATE OF ALASKA

PC
CBC 1998

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Electrical Engineer's Seal | Mechanical Engineer's Seal | Structural Engineer's Seal | Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC–04 101419 AC FLS SS DATE OCT 2 5 2001

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943–4014
FAX (909) 940–0427

PROJECT NUMBER:

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DRAWN BY: DATE:
CHECKED BY: DATE: 10/22/99

FOUNDATION PLAN

SHEET NO. F1.0

AGENCY APPROVAL DSA# 02-121945 39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

PROFESSIONAL STAMP

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PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
FOUNDATION PLAN (24'X40')
50 PSF LL (WOOD)

DRAWN BY: XXXXXX JOB NUMBER: 23219

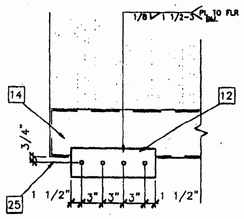
SHEET NO.
F1.0
DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

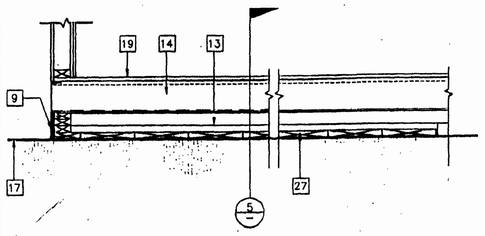
FILE PATH: 2440-0-F1-0.DWG

~~BGH PROJECT NO. 200019.31~~
BGH PROJECT NO. 200019.31
PROJECT NO. PC-04-101419

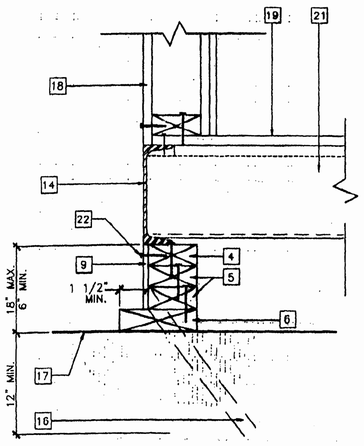
DATE PLOTTED: 11/28/2023 9:11:51 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK6V.rvt



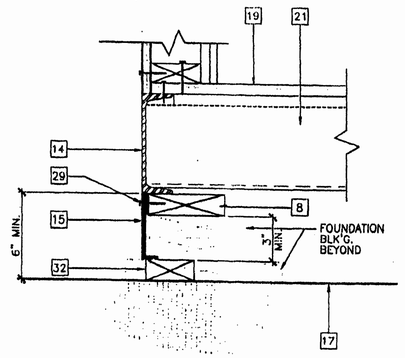
9 SCALE: 1 1/2"=1'-0"
ALTERNATE TIE PLATE



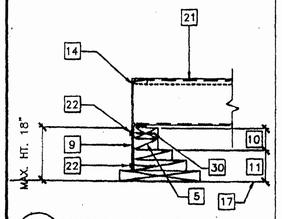
6 SCALE: 1 1/2"=1'-0"
MODLINE PAD @ END WALL



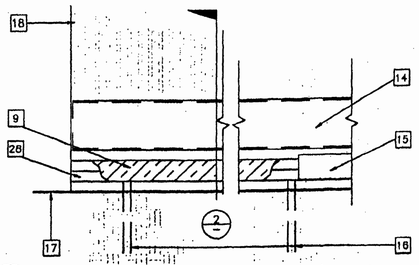
3 SCALE: 3"=1'-0"
FOUNDATION @ END WALL



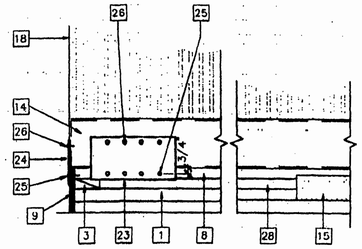
1 SCALE: 3" = 1'-0"
FOUNDATION VENT



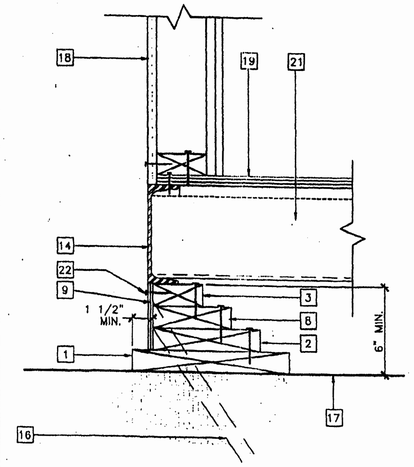
10 SCALE: 1 1/2"=1'-0"
ADD BLK'S/SHIMS TO LEVEL FOUND.



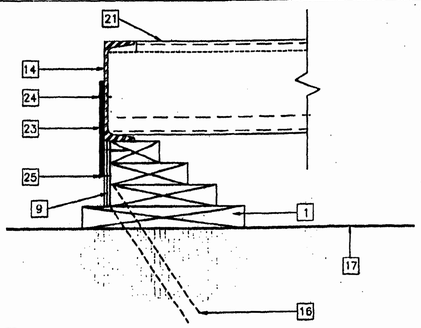
7 SCALE: 1 1/2"=1'-0"
FOUNDATION ELEVATION @ SIDE WALL



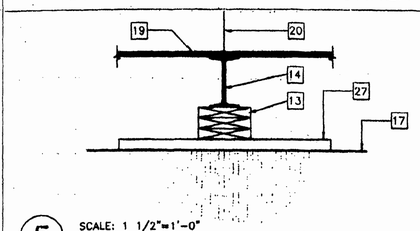
4 SCALE: 1 1/2"=1'-0"
DETAIL @ FOUNDATION CORNER



2 SCALE: 3" = 1'-0"
FOUNDATION @ SIDE WALL



8 SCALE: 3"=1'-0"
TYPICAL TIE PLATE



5 SCALE: 1 1/2"=1'-0"
FOUNDATION PAD @ MODLINE

PC
CBC 1998

KEY NOTES

1. 2X12 SILL PLATE SEE FOUND. PLAN FOR LENGTH
2. 2X8 TOP PLATE W/16d AT MAX. 5" O.C. TO SILL PLATE
3. 2X4 CONT. TOP PLATE W/16d AT MAX. 12" O.C.
4. 2X4 TOP PLATE CONT. W/16d AT MAX. 12" O.C.
5. 2X4 BLOCKING W/16d MAX. 12" O.C. TO SILL PLATE
6. 2X6 CONT. SILL PLATE
7. NOT USED
8. 2X6 BLOCKING W/16d AT MAX. 12" O.C.
9. MIN. 5/8" PLYWOOD SKIRTING W/10d BOX @ MIN. 4" O.C. AT ENDWALLS & 6" O.C. AT SIDEWALLS E.N. & TYP. 12" O.C. FN.
10. ADD BLOCKING OR SHIMS AS REQ. TO MAX. HT. SEE DETAIL #2
11. MIN. FOUNDATION HEIGHT. SEE DETAIL #2
12. 10 GA. PLATE 4" X 12"
13. 2X8 BLOCKING FACE OR TOE NAIL 16d AT MAX. 12" O.C. ADD BLKS. OR SHIMS AS REQ'D
14. FLOOR FRAME BEAM. SEE STRUCTURAL
15. VENT MIN. 3" X 6'-6" TYP. 4-PLACES = 6.5 SF. 2 VENTS AT 3" X 2'-0" = 1.0 SF. = 7.5 SQ. FT. TOTAL
16. SILL RESTRAINT 1" DIA. PIPE. SEE FOUND. PLAN FOR LOCATION - 24" LONG
17. FINISH GRADE
18. EXTERIOR FINISH
19. PLYWOOD SUBFLOOR
20. MOD-LINE
21. FLOOR-JOIST
22. EN SEE NOTE #9
23. 6" X 12" X 10GA. PLATE W/(4) #10 SMS TO FLR. & (4)1/4" DIA. X 3" LAG TO FOUND. TOP PLATE
24. 6" X 12" X 10 GA. PLATE
25. 1/4" DIA. X 3" LG. LAG SCREW TYP. 4-PLACES
26. #10 S.T.S. TYP. 4-PLACES
27. 2" X 12" X 2'-6" SILL PLATE. SEE FOUND. PLAN FOR QUANTITY REQ'D
28. 2X8 BLOCKING W/16d AT MAX. 6" O.C. MIN. 3 PER BLOCK. (MAY VARY ACCORDING TO SITE)
29. 10d GALV. BOX NAIL AT MAX. 4" O.C.
30. INSERT REQ'D 2X4 BLOCKING OR PLYWOOD SHIM W/16d AT 12" O.C. FACE NAIL
31. NOT USED
32. 2X4 P.T. BLOCK TO CLOSE OFF SPACE AND SUPPORT BOTTOM OF VENT

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 108677 AC FLS SS DATE OCT 2 3 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 108216 AC FLS SS DATE 6/17/01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 106199 AC FLS SS DATE 4-14-04

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 102490 AC FLS SS DATE AUG 2 3 2004

FILE PATH: 2440-0-F2-01.DWG

PROJECT NO. ~~BCH PROJECT NO. 200019.31~~
BCH PROJECT NO. 200019.31

REVISIONS

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Electrical Engineer's Seal | Mechanical Engineer's Seal | Structural Engineer's Seal | Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 10149 AC FLS SS DATE OCT 23 1999

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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DRAWN BY: DATE: 4/4/01
CHECKED BY: SS DATE: 10/12/99
MODTECH Index No.

FOUNDATION DETAILS w/ 4 PLATES

F2.01

PC-04-101419

AGENCY APPROVAL DSA# 02-121945 39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS FLS ACS
DATE: 12/12/2023

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION
-		
-		
-		

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

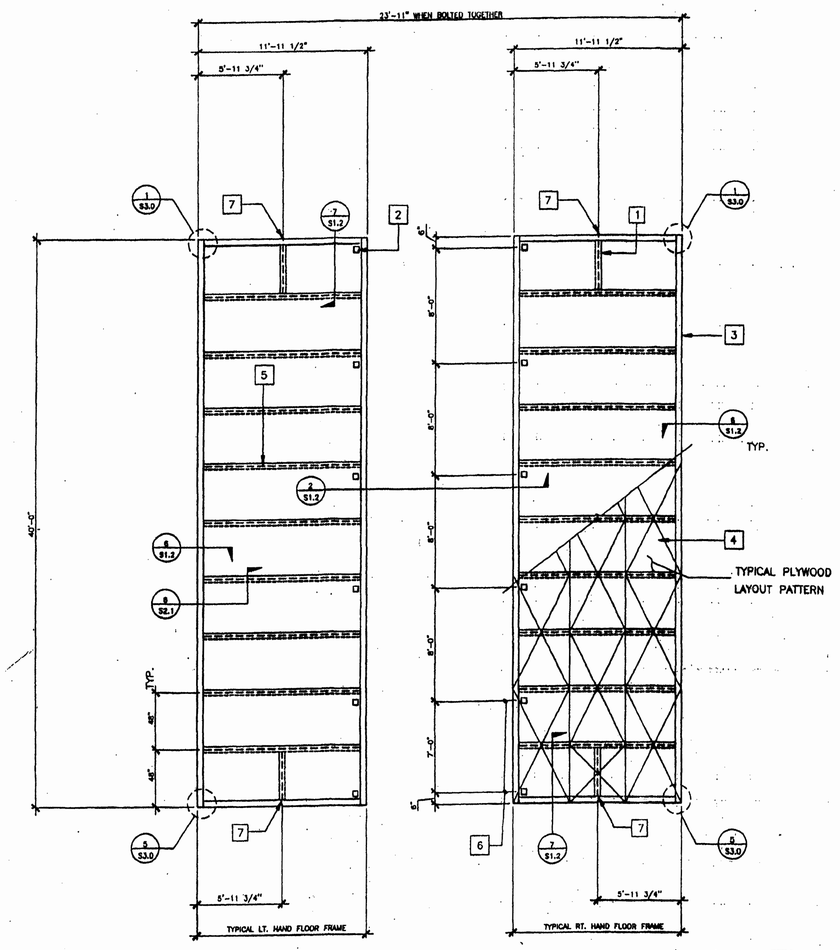
SHEET TITLE
FOUNDATION DETAILS (WOOD)

DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.
F2.01
DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 11/28/2023 9:11:51 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK6V.rvt



FLOOR JOIST TABLE

LIVE LOAD	⊓ 6 3/8"X2 1/2" 12GA.
50 P.S.F.	48" O.C.

KEY NOTES

1. ⌐ 6 3/8 X 2 1/2 X 12GA. BLOCKING AT MIDSPAN OF FLOOR HDR. TYPICAL
2. 5" DIA HAND HOLES AT BOLT BM TO BM (12 PLACES) OPTIONAL 5" SQUARE HOLE
3. C 7X9.8 PERIMETER CHANNEL (TYPICAL) SEE 5/S2.1
4. PLYWOOD FLOOR SHEATHING: APA PS 1-83 1 1/8" THICK, STURD-I-FLOOR OR EQUAL W/48" O.C. SPAN RATING, ATTACHED W/#10 X 1 3/4" SELF-TAPPING FLAT HEAD SCREWS AT 6" O.C. TO PERIMETER FRAME, AEROSMITH AKN 144.0175 DRIVE PINS AT 6" O.C. SUPPORTED EDGES AND 6" O.C. FIELD TO JOIST. (TYPICAL) SEE 10/S2.1
5. ⌐ 6 3/8 X 2 1/2 X 12GA. FLOOR JOIST AT 48" O.C.
6. TYPICAL BOLT HOLE LOCATION (SEE 2/S1.2)
7. 1"ø HOLE @ MID-DEPTH FOR HANDLING

NOTES

1. FOR L HAND & R HAND FRAME SEE S1.0
2. WELDING FIT-UP: OPENINGS = $\frac{t}{2}$ OR 1/8" MIN FOR FULL PEN ⊓ AND ⊓
   t = BASE METAL THICKNESS

FLOOR FRAMING PLAN

FLOOR LIVE LOAD - 50 PSF

SCALE 1/4"=1'-0"

PC

CBC 1998

REVISIONS

Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal

Architects Seal

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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DRAWN BY: DATE:
CHECKED BY: DATE:

FLOOR FRAMING PLAN

S1.0

FILE PATH: 2440-0-S1-0.DWG

~~BGH PROJECT NO. 200019.31~~

BGH PROJECT NO. 200019.31

PROJECT NO. PC-04-101419

AGENCY APPROVAL DSA# 02-121945 39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE

LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE

FLOOR FRAMING PLAN 50 PSF LL

DRAWN BY: XXXXXX JOB NUMBER: 23219

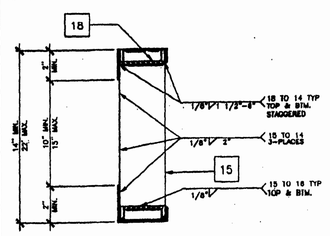
SHEET NO.

S1.0

DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

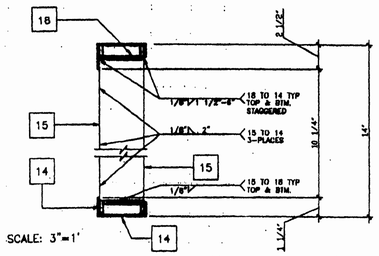
DATE PLOTTED: 11/28/2023 9:11:51 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK6V.rvt



SCALE: 3"=1'

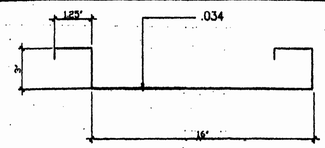
SEE MECH. PLAN FOR LOCATION

MECH. DUCT OPENING IN ROOF BM. 8



SCALE: 3"=1'

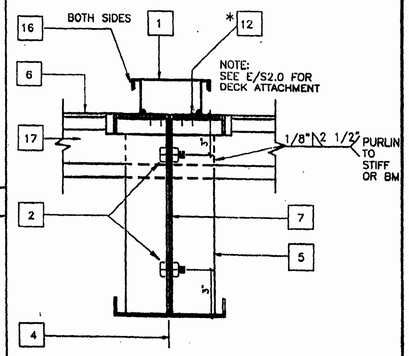
MECH. DUCT OPENING IN HEADER 4



Sx(MIN) = 0.296 IN3 Sx(MAX) = 0.33 IN3
Ix(MIN) = 0.446 IN4 Ix(MAX) = 0.603 IN4

SCALE: NTS

ROOF PAN (22GA.) 5

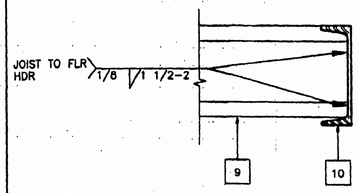


SEE 9/S2.1 FOR TYP. WELD STIFFENER TO BEAM

*DO NOT PENETRATE METAL ROOF DECK

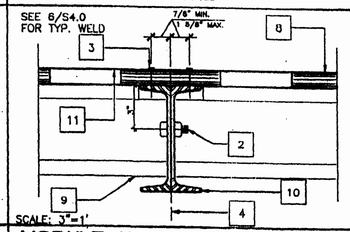
SCALE: 3"=1'

ROOFING • MODLINE 1



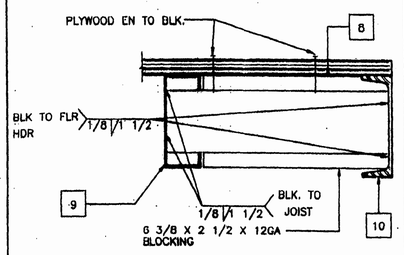
SCALE: 3"=1'

FLOOR FRAME/JOIST TO BEAM 6



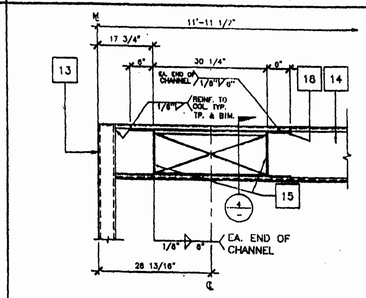
SCALE: 3"=1'

MODULE JOINT AT FLR. 12'-0" 2



SCALE: 3"=1'

BLOCK AT MIDSPAN 7



SCALE: 1"=1'

ELEVATION-OPENING 3

PC

CBC 1998 10

KEY NOTES

1. CAP CLOSURE AT RIDGE 26GA. GALV. W/#10 TYPE FASTENERS W/NEOPRENE WASHERS TO RIB BOTH SIDES OF MODLINE. SET CAP IN SEALANT. BOTH SIDES.
2. 5/8" M.B. A307 MODULE JOINT (SEE STRUCTURAL PLAN FOR LOCATION) AT 8" O.C.
3. E.N.
4. MODULE JOINT
5. 14" THK X 3" FULL DEPTH STIFFENER PLATE AT RIDGE ONLY (SEE 9/S2.1)
6. STANDING ROOF SEAM (SEE A2.0)
7. ROOF BEAM SEE 1/S2.1 & 7/S2.1
8. PLYWOOD FLOOR SHEATHING
9. FLOOR JOIST SEE 6/S2.1
10. FLOOR BEAM SEE 5/S2.1
11. HAND HOLE AT BOLT LOCATION
12. #14 STSMS.
13. 3 1/2"X3 1/2"X1/4" STEEL TUBE COLUMN. SEE 12/S2.1
14. ROOF HEADER SEE 3/S2.1
15. 1/4" STIFFENER PLATE SEE 9/S2.1 FOR TYP. WELD
16. SEALANT
17. ROOF PURLIN SEE 2/S2.1
18. 3 1/4" X 1" X 45 11/18" LG X 10GA CHANNEL TOP AND BOTTOM OF OPENING

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 108677 AC ___ FLS ___ SS ___ DATE OCT 23 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 103216 AC ___ FLS ___ DATE 6/14/01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 108169 AC ___ FLS ___ SS ___ DATE 4-14-04

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 102490 AC ___ FLS ___ SS ___ DATE AUG 2 4 2001

LICENSED ARCHITECT FRED VINCENT MASTICK No. C-24628 RENEWAL DATE 12/31/01 STATE OF CALIFORNIA

LICENSED ARCHITECT FRED VINCENT MASTICK No. C-24628 RENEWAL DATE 12/31/01 STATE OF CALIFORNIA

REVISIONS

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4		

Electrical Engineer's Seal | Mechanical Engineer's Seal | Structural Engineer's Seal | Architects Seal

LICENSED ARCHITECT FRED VINCENT MASTICK No. C-24628 RENEWAL DATE 12/31/01 STATE OF CALIFORNIA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 10419 AC ___ FLS ___ SS ___ DATE OCT 23 2001

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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DRAWN BY: DATE: 4/4/01
CHECKED BY: SS DATE: 10/22/99
MODTECH Index No.

STRUCTURAL DETAILS

S1.2

PC-04-101419 PROJECT NO. USF PROJECT NO. 2000-31 BGH PROJECT NO. 200019.31

FILE PATH: 2440-0-S1-2.DWG

AGENCY APPROVAL DSA# 02-121945 39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-121945 INC: REVIEWED FOR SS ☑ FLS ☑ ACS ☑ DATE: 12/12/2023

PROFESSIONAL STAMP

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LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

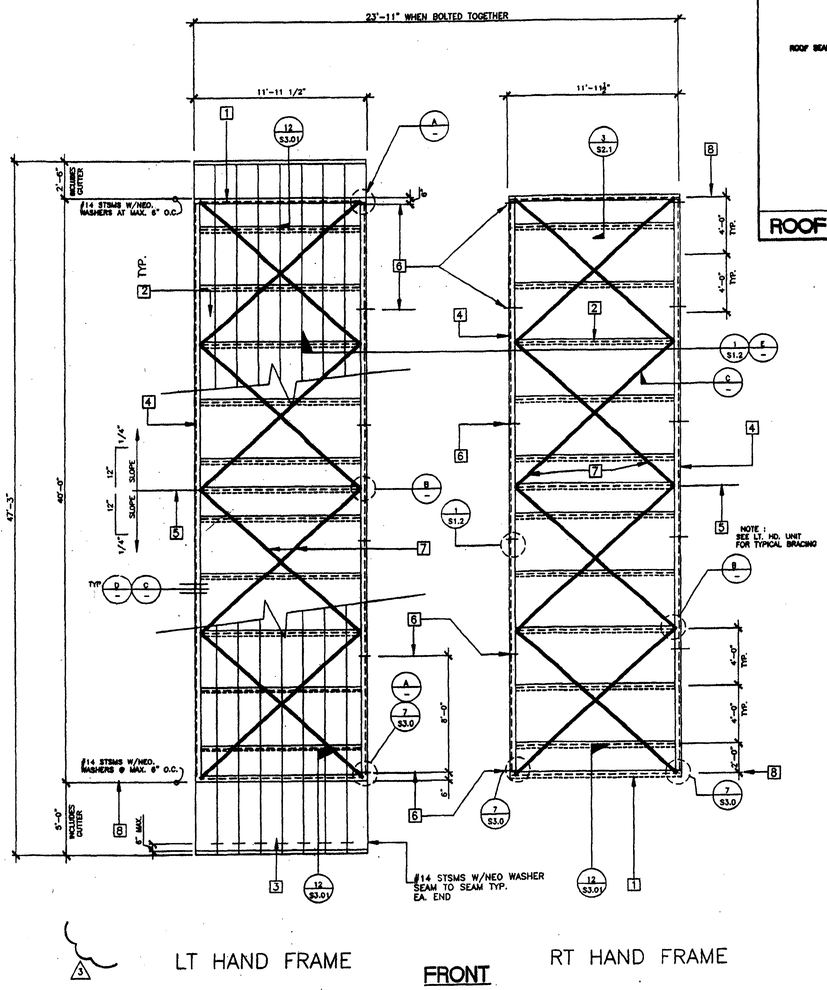
SHEET TITLE
FLOOR FRAMING DETAILS (TYPICAL)

DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.
S1.2
DATE: DECEMBER 5, 2023

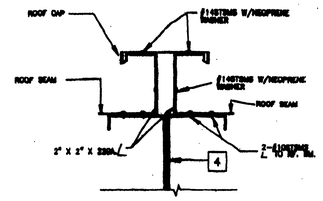
CONSTRUCTION DOCUMENTS

DATE PLOTTED: 11/28/2023 9:11:51 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK8V.rvt

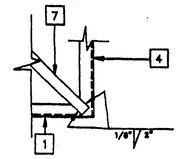


ROOF FRAMING PLAN - DUAL PITCH

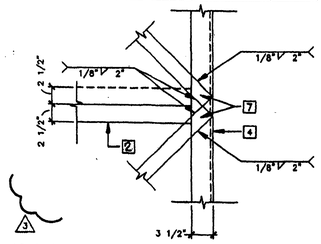
SCALE 1/4"=1'-0"



ROOF CAP AT MODLINE (ALTERN.) E

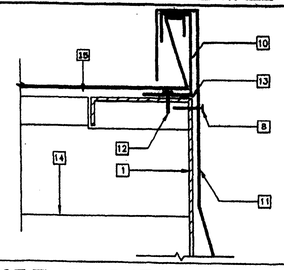


CROSS BRACING AT END WALL A

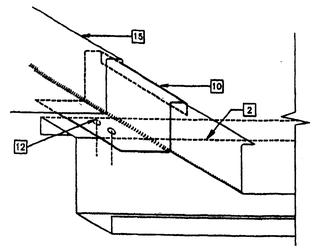


SCALE: 1 1/2"=1'-0"

CROSS BRACING AT SIDE WALL B



ROOF FLASHING AT SIDE WALL C



ROOF STANDING SEAM D

KEY NOTES

1. C 14x12 GA [HEADER
2. 6"x2 1/2"x14 GA ⌊ ROOF PURLIN SEE PLAN FOR SPACING
3. 22 GA STANDING SEAM ROOFING ATTACH ROOFING TO ROOF CLIP WITH #14x3/8" STSMS WITH NEOPRENE WASHERS SPACING AT 4'-0" OC
4. TAPERED ROOF BEAM 10 GA [SEE 7/S2.1
5. RIDGE LINE
6. 11/16 DIA DRILL SEE DETAIL 1/S1.2
7. 2"x20 GA STRAP CROSS BRACING TACK WELD TO EACH PURLIN
8. #14x3/4" STSMS AT ROOF HEADER WITH NEO. WASHER-3 PER PAN MAXIMUM 6" OC
9. [4"x2 1/2"x14 GA FASCIA SEE 4/S2.1
10. 22 GA STARTER/END ROOF CLIP - C/S2.01
11. 26 GA GALVANIZED IRON FLASHING AT SIDEWALL - C/S2.01
12. #10x3/4" STSMS HOLDING FLASHING INTO ROOF BEAM WITH NEOPRENE WASHER AT 24" OC
13. 1/4" CONTINUOUS BEAD OF SEALANT AROUND ENTIRE PERIMETER OF FRAME
14. ROOF PURLIN (STR)
15. 22 GA STANDING SEAM ROOF PAN

REVISED MAY 3 1 2001

REVISED DEC 9 1999

PC

CBC 1998

REVISIONS			
1	DATE	ADD PURLIN	SS
2	SP	REVISED KEY NOTE 12	3/15/01
3	SP	REVISED CROSS BRACING LOCATION AND REVISED DETAIL B	5/30/01
4			

Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal

Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 10112 AC ___ FLS ___ SS ___ DATE OCT 2 3 2001

MODTEC

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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DRAWN BY:
DATE:
CHECKED BY: SS
DATE: 10/27/99

MODTECH Project No.

ROOF FRAMING PLAN W/O FASCIA

S2.01

PC-04-101419 PROJECT NO.

BGH PROJECT NO. 200019.31

FILE PATH: 2440-0-S2-01.DWG

AGENCY APPROVAL DSA# 02-121945 39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-121945 INC: REVIEWED FOR SS ☑ FLS ☑ ACS ☑ DATE: 12/12/2023

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 103627 AC ___ FLS ___ SS ___ DATE OCT 2 3 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 103216 AC ___ FLS ___ SS ___ DATE 6/17/01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 103168 AC ___ FLS ___ SS ___ DATE 11-14-01

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LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE

FLOOR FRAMING PLAN (DUAL PITCH) W/O FASCIA

DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.

S2.01

DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK6V.rvt

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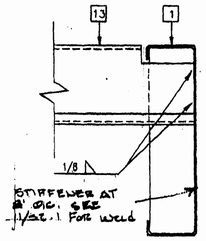
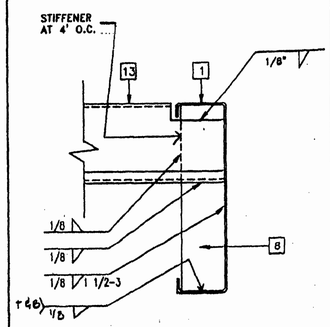
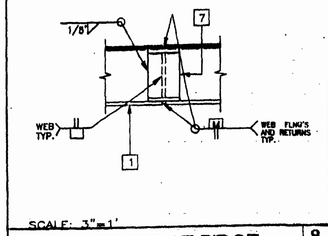


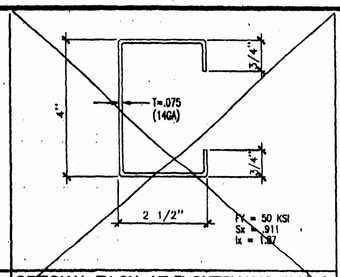
PURLIN AT MOD LINE WALLS | 13



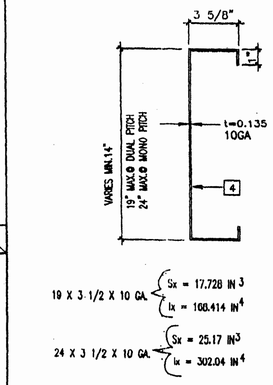
PURLIN AT EXT. SIDE WALLS | 11



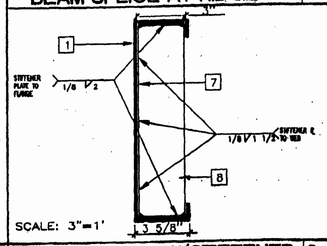
BEAM SPLICE AT RIDGE | 8



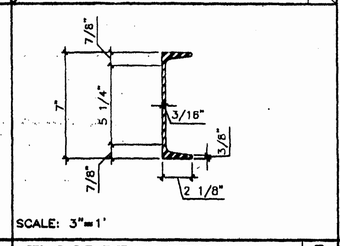
OPTIONAL FACIA AT 5' OVERHANG BM. | 4



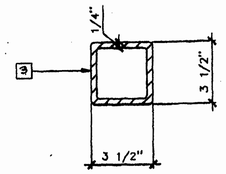
TAPERED ROOF BEAM | 1



BEAM SPLICE W/STIFFENER | 9

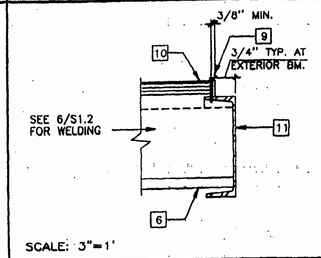


FLOOR BEAM C7X9.8 | 5

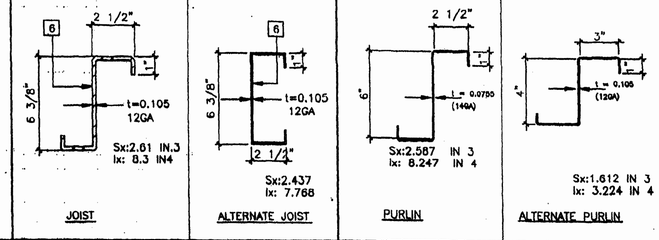


TS 3 1/2" X 3 1/2" X 1/4"

CORNER COLUMN | 12

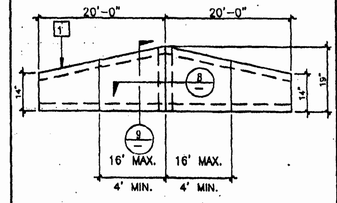


FLR LOIST AT FLOOR BEAM | 10

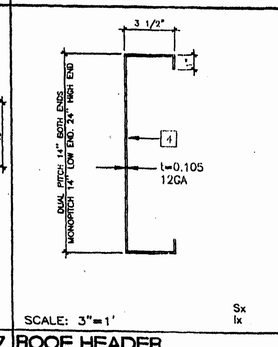


FLOOR JOIST | 6

ROOF PURLIN | 2



BM. SPLICE • RIDGE (DUAL SLOPE) | 7



ROOF HEADER | 3

KEY NOTES

1. 10GA. TAPERED RF. BM. SEE 7/S2.1 &1/S2.1
2. NOT USED
3. TS 3 1/2"X3 1/2"X1/4" COLUMN
4. ⊏ 14"X10GA. RF. HDR. SEE 3/S2.1
5. NOT USED
6. FLOOR JOIST SEE 8/S2.1
7. 10GA. BENT PLATE BACK-UP
8. STIFFENER PLATE 3"X1/4" THICK AT 4'-0" OC
9. #10 STSMS @ 6" O.C. (SEE S1.0)
10. PLYWOOD FLR. SHEATHING
11. FLOOR BEAM SEE 5/S2.1
12. NOT USED
13. ⊓ 6" X 2 1/2" X 14GA PURLIN
    ALT: ⊓ 4" X 3" X 12GA

PC

CBC 1998

REVISIONS

1		
2		
3		
4		
5		

Electrical Engineer's Seal | Mechanical Engineer's Seal | Structural Engineer's Seal | Architects Seal

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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DRAWN BY: dlr
DATE: 4/4/01
CHECKED BY: SS
DATE: 10/22/99

STRUCTURAL DETAILS

S2.1

PROJECT NO. PC-04-101419

BGH PROJECT NO. 200019.31

FILE PATH: 2440-0-S2-1.DWG

AGENCY APPROVAL DSA# 02-121945
39-50

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION
-		
-		

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
FLOOR FRAMING DETAILS (TYP.)

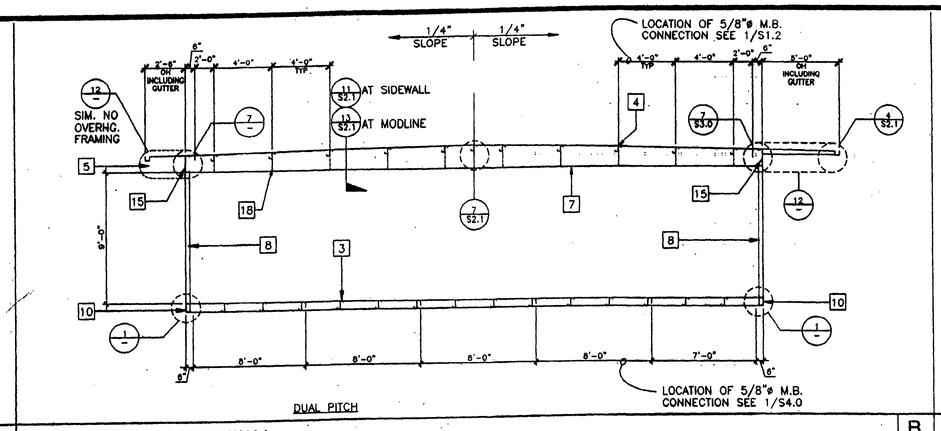
DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.
S2.1

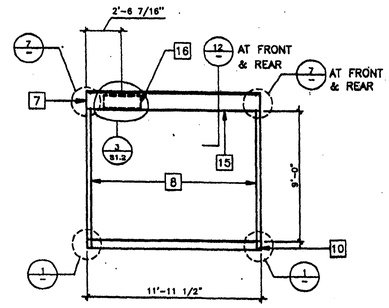
DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

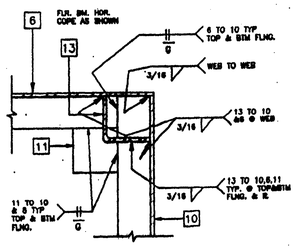
DATE PLOTTED: 11/28/2023 9:11:51 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK6V.rvt



10 SECTION AT SIDEWALL

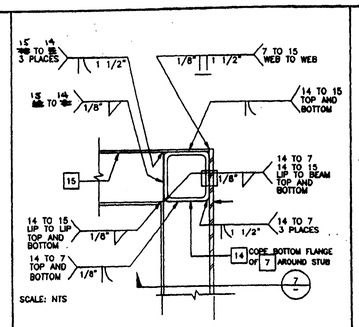


B SECTION AT ENDWALL A

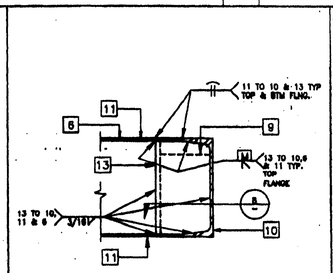


SCALE: 3"=1'

11 STIFFENER SECTION AT FLOOR

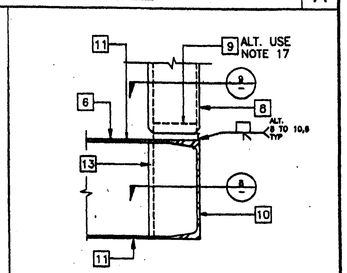


8 STIFFENER AT ROOF



SCALE: 3"=1'

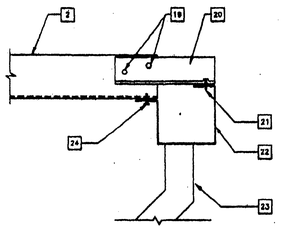
6 COLUMN CONN. AT FLOOR



SCALE: 3"=1'

4 COLUMN CONN. AT FLR.

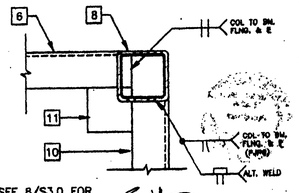
1



SCALE: N.T.S.

GUTTER AT ROOF OVERHANG

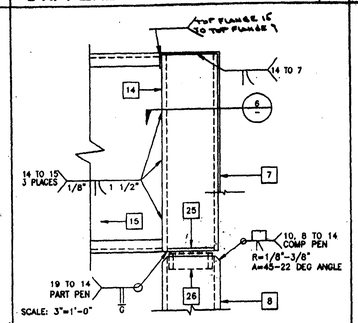
NOTE:
GRIND ALL WELDS SMOOTH ALONG THE MODLINES FOR BOLTING.



SEE 8/S3.0 FOR WELDING

SCALE: 3"=1'

12 COLUMN AT FLOOR



REVISED DEC 9 1999

CBC 1998 PC

9 COLUMN AT ROOF

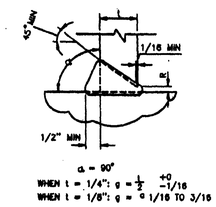
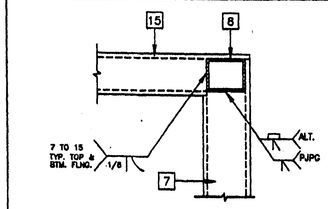


FIGURE L-1
PARTIAL JOINT PENETRATION GROOVE WELDS IN TRUSS CONNECTIONS OF HOLLOW STRUCTURAL SECTIONS

7 P.J.G.P. WELD DETAIL

2



SCALE: N.T.S.

5 COLUMN AT ROOF BEAM 3

KEY NOTES

1. EN @ PLYWOOD EDGES
2. 22GA STANDING SEAM ROOF
3. 6 3/8"X2 1/2"X12GA. FLR. JOIST 6/S2.1
4. 6X2 1/2"X14GA. ROOF PURLIN 2/S2.1
5. 3"X3"X3"X26GA ROOF END CLOSURE W/#10 STSMS W/NEOPRENE WASHER TOP & BOTT.
6. [7 X 9.8 FLOOR HEADER
7. [10 GA. TAPERED ROOF BEAM (SEE 3/S2.1) OR 12/S2.1 REFER TO RF. FRAMING PLAN
8. T.S. 3 1/2"X3 1/2"X1/4" COLUMN
9. BACK-UP PLATE MIN. 10 GA.
10. [7X9.8 FLOOR CHANNEL
11. 3 1/2"X3 1/2"X1/4" STEEL PLATE WELDED FLUSH TO TOP AND BOTTOM OF CHANNEL FLANGES
12. NOT USED
13. 3 1/2X3 1/2X1/4 STIFFENER ANGLE COPE TO FIT C7 X 9.8
14. STIFFENER TS 3 1/2X3 1/2X1/4
15. [14"X3 1/2"X12GA. HEADER (SEE 3/S2.1)
16. LOCATION OF HVAC OPENING (SUPPLY AIR OPENING - 9 7/8'' X 29 7/8'') (RETURN AIR OPENING-15 7/8'' X 29 7/8'')
17. 3"X3"X1/4" THICK X 1/2" LONG INSERT POS
18. 1/4" FULL DEPTH STIFFENER PLATE AT 4'-0" OC AT EXTERIOR SIDEWALLS ONLY FOR 80 MPH DESIGN WIND LOAD ONLY
19. #10 STSMS WITH NEOPRENE WASHER – GUTTER STRAP TO RIB OF ROOF PAN
20. 1 1/2"x1 1/2"x22 GA ANGLE GUTTER STRAP
21. #10 STSMS GUTTER STRAP TO GUTTER
22. 26 GA CONTINUOUS GUTTER
23. DOWNSPOUT
24. #10 STSMS – GUTTER TO ROOF PAN AT EACH SEAM
19. 1/4" BASE PLATE-INSERT FLUSH WITH STIFFENER TUBE
20. (1) 3"x3"x10 GA TUBE STEEL BACK-UP TUBE OR (4) 10 GA BACK-UP PLATES

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 102490 AC FLS SS DATE AUG 2 2004

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 10 AC FLS DATE 4-14-03

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 103677 AC FLS SS DATE OCT 2 3 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 103216 AC FLS DATE

FILE PATH: 2440-0-S3-0.DWG

BGH PROJECT NO. 000019.31

PC-04-101419 PROJECT NO.

REVISIONS		
1	ADDED PURLINS UP DATED DETAILS	
2		
3		
4		
5		

Electrical Engineer's Seal | Mechanical Engineer's Seal | Structural Engineer's Seal | Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 AC FLS SS DATE OCT 2 3 1999

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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DRAWN BY: DATE: 10/20/99
CHECKED BY: SS DATE: 10/22/99

STRUCTURAL ELEVATIONS w/o FASCIA

DRAWING No. S3.0

AGENCY APPROVAL DSA# 02-121945 39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-121945 INC: REVIEWED FOR SS ☑ FLS ☑ ACS ☑ DATE: 12/12/2023

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION
-		
-		

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PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

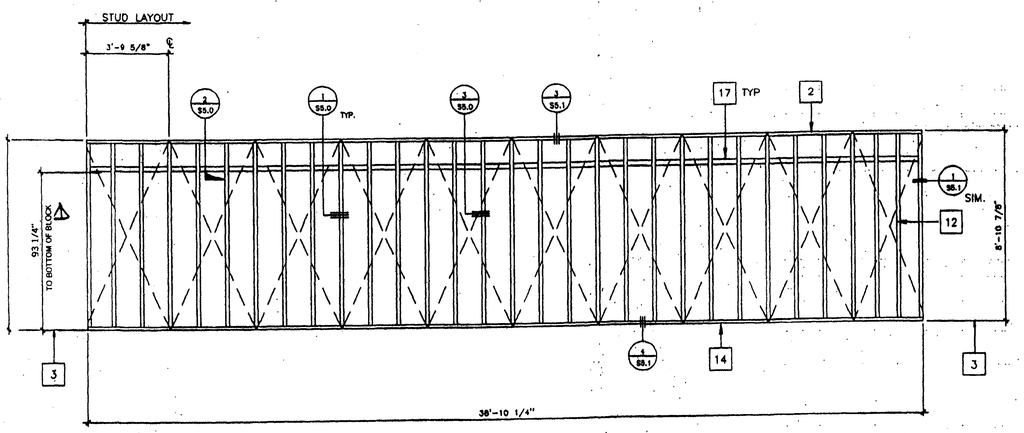
SHEET TITLE
STRUCTURAL ELEVATIONS & DETAILS (DUAL PITCH)

DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.
S3.0
DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 11/28/2023 9:11:51 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK6V.rvt



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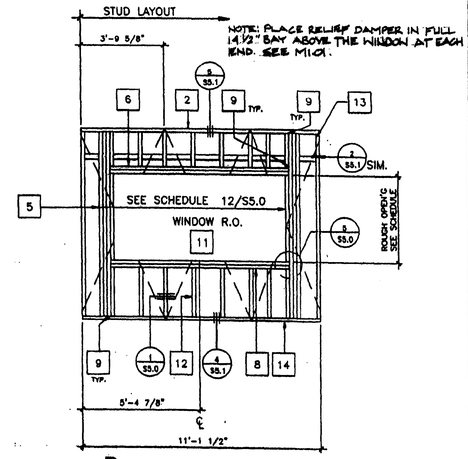

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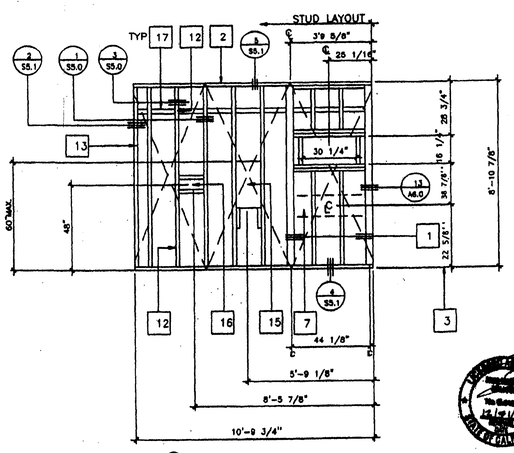

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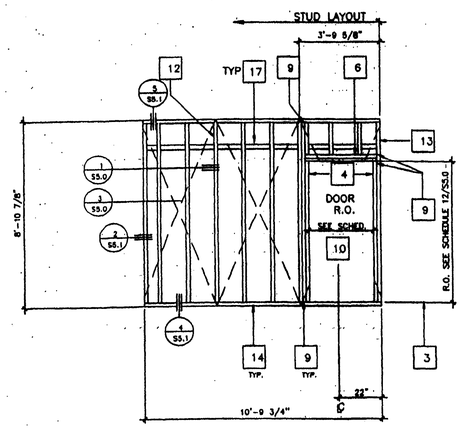

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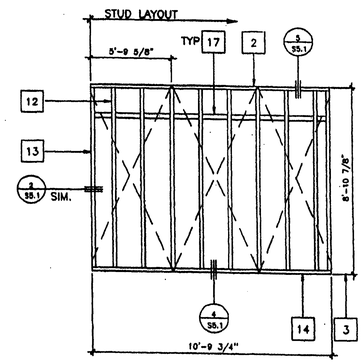

E

SCALE 3/8"=1'

KEY NOTES

1. 4 X 4 POST ALT.:USE 2-2X4 W/FACE NAILING
2. 2X4 TOP PLATE
3. FINISH FLOOR
4. 2X4 FULL HGT. KING STUDS AND 2X4 TRIMMER (SEE SCHEDULE FOR QUANTITY SHT S5.1)
5. FULL HEIGHT STUDS AND 1-2X4 TRIMMER (SEE WINDOW SCHEDULE FOR JAMB STUDS REQUIRED. SHEET S5.0.
6. HEADER (SEE SCHEDULE)
7. 26GA X 4" WIDE STRAP
8. WINDOW SILL PLATE (SEE SCHEDULE)
9. A 34 CLIPS AT HEADER & SILL TO FULL HGT. STUDS AND FULL HGT. STUDS TO TOP AND BOTTOM PLATES.SEE 4/S5.0
10. REQUIRED OPENING FOR A 3068 DOOR (SEE DETAIL 7/S5.0)
11. REQUIRED OPENING FOR A 8040 WINDOW (SEE DETAIL 6/S5.0)
12. 2X4 STUD AT 16" O.C. TYPICAL
13. 2X4 NAILER TYPICAL AT EACH END
14. 2X4 SILL PLATE
15. FRAME FOR ELECTRICAL PANEL
16. THERMOSTAT LOCATION 4S BOX
17. 2"x4" BLOCKING

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 105169 AC FLS SS DATE 4-14-04

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 103077 AC FLS SS DATE OCT 23 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 103216 AC FLS SS DATE 6/12/01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 100190 AC FLS SS DATE AUG 24 2000

PC
CBC 1998

REVISED
DEC 9 1999

REVISIONS			
1	12/9/99	ADD BLOCKING	SS
2			
3			
4			
5			

Electrical Engineer's Seal | Mechanical Engineer's Seal | Structural Engineer's Seal | Architects Seal

APPROVED STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 AC DATE OCT 23 2001

MODTECH INC.
2630 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

© MODTECH, INC. 1999

DRAWN BY:
DATE:
CHECKED BY: SS
DATE: 10/23/99

WALL FRAMING — WOOD STUDS

S4.0

FILE PATH: 2440-0-S4-0.DWG

PROJECT NO. ~~BGH PROJECT NO. 200019.21~~ BGH PROJECT NO. 200019.31

PC-04-101419

AGENCY APPROVAL DSA# 02-121945 39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-121945 INC: REVIEWED FOR SS ☑ FLS ☑ ACS ☑ DATE: 12/12/2023

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION

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PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
WALL FRAMING (WOOD)

DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.
S4.0
DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK6V.rvt

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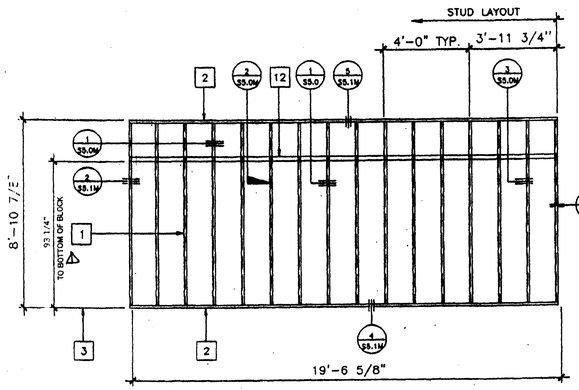
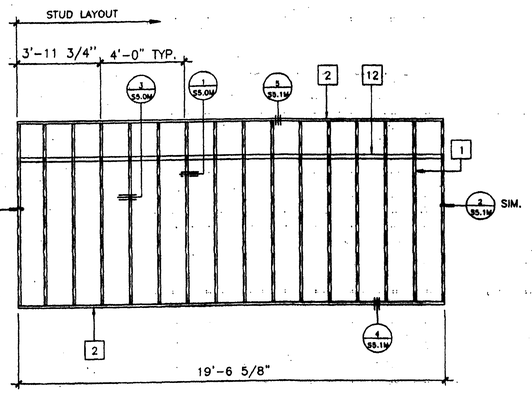
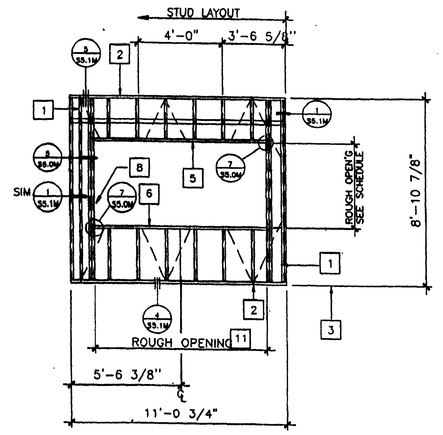


PANEL A,
PANEL 'A' 2 OPOSITE HD



PANEL A,
PANEL 'A' 3 OPOSITE HD



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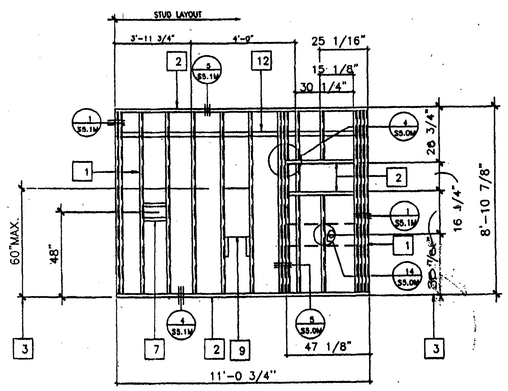

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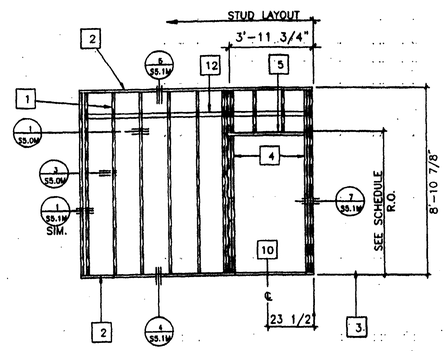

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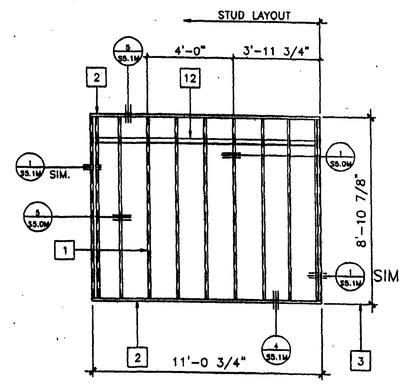
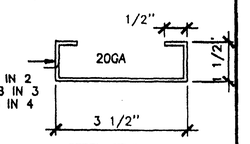


E

SCALE 3/8"=1'

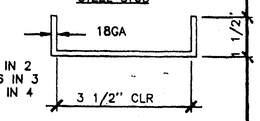
KEY NOTES

1. 1 1/2" X 3 1/2" 20GA METAL STUD @ MAX 16" O.C.
2. 1 1/2" X 3 1/2" X 18GA TRACK
3. FINISH FLOOR
4. FULL HGT. KING STUDS (SEE SCHEDULE FOR QUANTITY SHT S5.0M)
5. HEADER (SEE SCHEDULE SHT. S5.0M)
6. WINDOW SILL PLATE (SEE SCHED.SHT S5.0M)
7. THERMOSTAT BOX
8. FULL HEIGHT STUDS AND JAMB STUDS (SEE WINDOW SCHEDULE FOR TYPE AND QUANTITY OF JAMB STUDS - SHT. S5.0M)
9. FRAME FOR ELECTRICAL PANEL
10. REQUIRED OPENING FOR A 3068 DOOR (SEE DETAIL 7/S5.0M)
11. REQUIRED OPENING FOR A 8040 WINDOW (SEE DETAIL 7/S5.0M)
12. 20GA X 2 1/2" STRAP (OPTIONAL FOR 8' SIDING ONLY)



A= 0.252 IN 2
Sx= 0.248 IN 3
Ix= 0.438 IN 4

STEEL STUD



A= 0.270 IN 2
Sx= 0.266 IN 3
Ix= 0.491 IN 4

TRACK

CONNECTIONS:
TOP TRACK TO ROOF BEAM/HEADER
0.145# SHOT PINS OR
#10 STSMS AT 24" O.C.
TRACK TO FLOOR PLYWOOD:
16d BOX @ 10" O.C. OR
#10 X 1 1/2 W.S AT 10" O.C.
4'-0" HEADER:
(1) 5 1/2"X1 1/2"X18GA TRACK AS HEADER
(1) 5 1/2"X1 1/2"X20GA STUDS AS JAMB
8'-0" HEADER:
(1) 5 1/2"X1 1/2"X18GA TRACK AS HEADER
(2) 5 1/2"X1 1/2"X20GA STUDS AS JAMB

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 105169 AC ___ FLS ___ SS ___ DATE 4-14-04

NOTES

ALL STEEL STUDS ARE 3 1/2" X 1 1/2" X 20GA CHANNEL @ 16" O.C.
ALL STEEL SECTIONS CONFORM TO ASTM A446 GALVANIZED SHEETS HAVE BASE METAL TTHICKNESS AS INDICATED WITH COATINGS PER ASTM A525.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 108677 AC ___ FLS ___ SS ___ DATE OCT 2 3 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 103216 AC ___ FLS ___ SS ___ DATE 6/14/01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 101490 AC ___ FLS ___ SS ___ DATE AUG 2 4 2000

LICENSED ARCHITECT FRED VINCENT WALLOCK No. C-24928 REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA 11/14/01

LICENSED ARCHITECT FRED VINCENT WALLOCK No. C-24928 REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA 11/14/01

PC
CBC 1998

REVISED
DEC 9 1999

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 AC ___ FLS ___ SS ___ DATE 12/13/04

REVISIONS		
1	1/24/01 ADD BLOCKING	SS
2		
3		
4		
5		

Electrical Engineer's Seal | Mechanical Engineer's Seal | Structural Engineer's Seal | Architects Seal

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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DRAWN BY: 1/24/01
DATE:
CHECKED BY: SS
DATE: 10/22/99

WALL FRAMING METAL STUDS

Modtech Index No.
S4.0M

FILE PATH: 2440-0-S4-0M.DWG

PROJECT NO. PC-04-101419 BGH PROJECT NO. 200019.31

AGENCY APPROVAL DSA# 02-121945 39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION
-		
-		

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
WALL FRAMING (METAL)

DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.
S4.0M

DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 11/28/2023 9:11:51 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK8V.rvt

NAILING SHEDULE

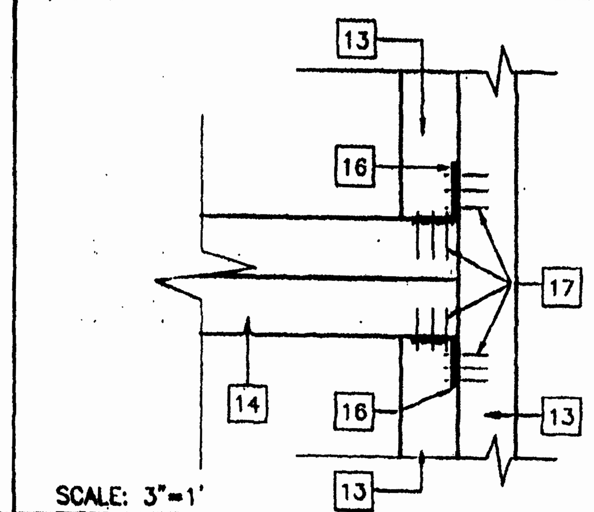
CONNECTION	NAILING 1
1. JOST TO SILL OR GIRDER,TOENAIL	3-8d
2. BRIDGING TO JOIST, TOENAIL END END	2-8d
3. 1" X 6" (25 mm X 152mm) SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL	2-78d
4. WIDER THAN 1" X 6" (25 mm X 152 mm) SUBFLOOR TO EACH JOIST, FACE NAIL	3-8d
5. 2" (51MM) SUBFLOOR TO LOIST OR GRINDER, BLIND AND FACE NAIL	2-16d
6. SOLE PLATE TO JOIST OR BLOCKING, TYPICAL FACE NAIL	16d at 16" (406mm) o.c.
SOLE PLATETO JOIST OR BLOCKING, AT BRACED WALL PENELS	3-16d per 16" (406mm)
7. TOP PLATE TO STUD, END NAIL	2-16d
8. STUD TO SOLE PLATE	4-8d, toenail or 2-16d, end nail
9. DOUBLE STUDS, FACE NAIL	16d at 24" (610mm) o.c.
10. DUOBLE TOP PLATES, TYPICAL FACE NAIL	16d at 16" (406mm) o.c.
DOUBLE TOP PLATES, LAP SPLICE	8-16d
11. BLOCKING BETEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL	3-8d
12. RIM JOIST TO TOP PLATE, TOENAIL	8d at 6" (152mm) o.c.
13. TOP PLATES, LAP AND INTERSECTIONS, FACE NAIL	2-16d
14. CONTINUOUS HEADER. TWO PIECES.	16d at 16" (406mm) o.c. along each edge
15. CEILING JOIST TO PLATE, TOENAIL	3-8d
16. CONTINUOUS HEADER TO STUD, TOENAIL	4-8d
17. CEILING JOISTS, LAP OVER PARTITIONS, FACE NAIL	3-16d
18. CEILING JOIST TO PARALLEL RAFTERS, FACE NAIL	3-16d
19. RAFTER TO PLATE, TOENAIL	3-8d
20. 1" (25 mm) BRACE TO EACH STUD AND PLATE, FACE NAIL	2-8d
21. 1" X 8" (25 mm X 203 mm) SHEATHING OR LESS TO AECH BEARING, FACE NAIL	2-8d
22. WIDER THAN 1" X 8" (25mm X 203mm) SHEATHING TO EACH BEARING, FACE NAIL	3-8d
23. BUILT-UP CORNER STUDS	16d at 24" (610mm) o.c.
24. BUILT-UP GIRDER AND BEAMS. BOTTOM AND STAGGERED 2-20d AT ENDS AND AT EACH SPLICE.	20d AT 32" (813 mm) O.C. O.C. AT TOP AND BOTTOM AND STAGGERED 2-20d AT ENDS AND AT EACH SPLICE.
25. 2" (51mm) PLANKS	
26. WOOD STRUCTURAL PANELS AND PARTICLEBOARD: 2 SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING): (1 INCH=25.4mm)	
1/2" AND LESS	6d3
19/32" - 3/4"	8d4 OR 6d5
7/8" - 1"	8d3
1 1/8" - 1 1/4"	10d4 OR 8d5
COMBINATION SUBFLOOR-UNDERLAYMENT (TO FRAMING): (1 INCH=25.4mm)	
3/4" AND LESS	6d5
7/8" - 1"	8d5
1 1/8" - 1 1/4"	10d4 OR 8d5
27. PANEL SIDING (TO FRAMING):	
1/2" (13 mm) OR LESS	6d6
5/8" (16 mm)	8d6
28. FIBERBOARD SHEATHING	
1/2" (13 mm)	NO. 11 GA.8 6d4 NO. 16 GA.9
25/32" (20 mm)	NO 11 GA.8 8d4 NO.16 GA.9
29. INTER PANELING	
1/4" (6.4 mm)	4d 10
3/8" (9.5 mm)	6d 11

NOTE; All nail shall be box nails unless otherwise noted.

1. COMMON OR BOX NAILS MAY BE USED EXCEPT WHERE OTHERWISE STATED.
2. NAILS SPACED AT 6"(152MM) ON CENTER AT EDGES, 12"(305MM) AT INTERMEDIATE SUPPORTS EXCEPT 6 INCHES (152MM) AT ALL SUPPORTS WHERE SPANS ARE 48"(1219MM) OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLE DIAPHRAMS AND SHEAR WALLS, REFERTO SECTION 2314.3. NAILS FOR WALL SHEATHING MAY BE COMMON, BOX OR CASING.
3. COMMON OR DEFORMED SHANK
4. COMMON
5. DEFORMED SHANK
6. CORROSION-RESISTANT SIDING OR CASING NAILS CONFORMING TO THE REQUIREMENTS OF SECTION 2325.1.
7. FASTENERS SPACED 3 INCHES(76MM) ON CENTER AT EXTERIOR EDGES AND 6 INCHES(152MM) ON CENTER AT INTEERMEDIATE SUPPORTRS.
8. CORROSION-RESISTANT ROOFING NAILS W/7/16(11MM) HEAD AND 1 1/2 INCH(38MM) LENGHT FOR 1/2 INCH(13MM) SHEATHING AND 1 3/4 INCH(44MM) LENGHT FOR 25/32 INCH(20MM) SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2325.1.
9. CORROSION-RESISTANT STAPLES WITH NOMINAL 7/16 INCH(11MM) CROWN AND 1 1/8 INCH(29MM) LENGHT FOR 1/2 INCH(13MM) SHEATHING AND 1 1/2 INCH(38MM) LENGHT FOR 25/32 INCH(20MM) SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2325.1.
10. PANEL SUPPORTS AT 16 INCHES(406MM) 120 INCHES(508MM) IF STRENGGHT AXIS IS IN THE LONG DIRECTION OF PANEL, UNLESS OTHERWISE MARKED. CASING OR FINISH NAILS SPACED 6 INCHES(152MM) ON PANEL EDGES. 12 INCHES (152MM) AT INTERMEDIATE SUPPORTS.
11. PANEL SUPPORTS AT 24 INCHES(610MM). CASING OR FINISH NAILS SPACED 6 INCHES(152MM) ON PANEL EDGES. 12 INCHES(305MM) AT INTERMEDIATE SUPPORTS.

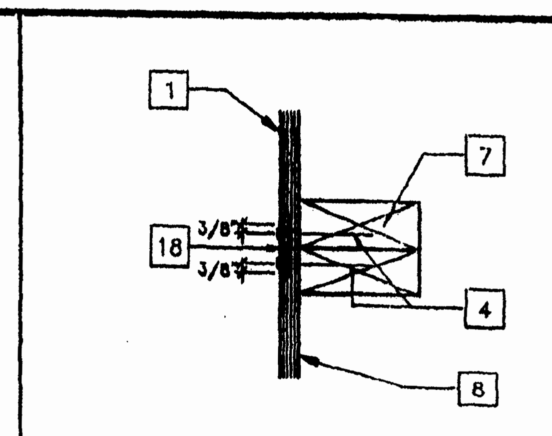
LICENSED ARCHITECT FRED VINCENT HALLOCK No. C-24928 12/31/01 RENEWAL DATE STATE OF CALIFORNIA

9



SCALE: 3"=1'

WINDOW SILL AT JAMB 5



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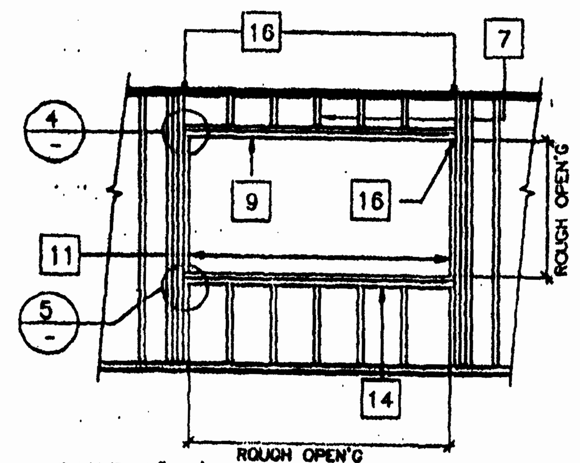
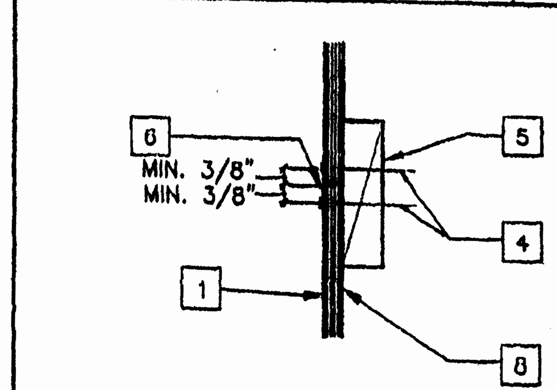
DETAIL AT VERT. PLYWOOD EDGES 1

10



SCALE: 3"=1'

TYP. WINDOW FRAMING 6



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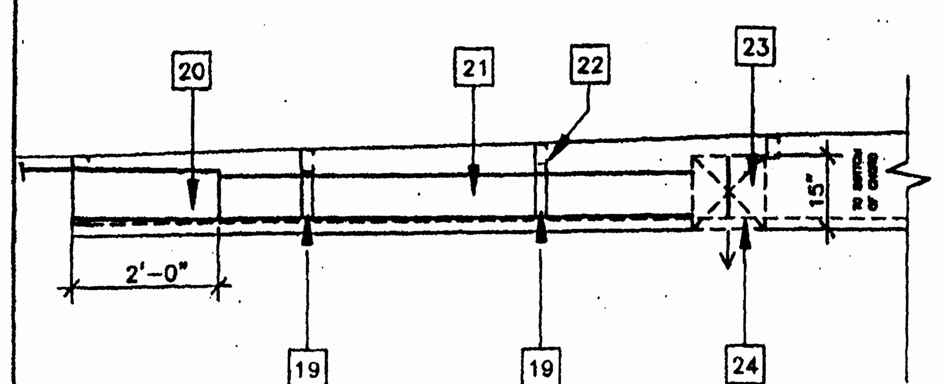
DETAIL AT HORIZ PLYWOOD JOISTS 2



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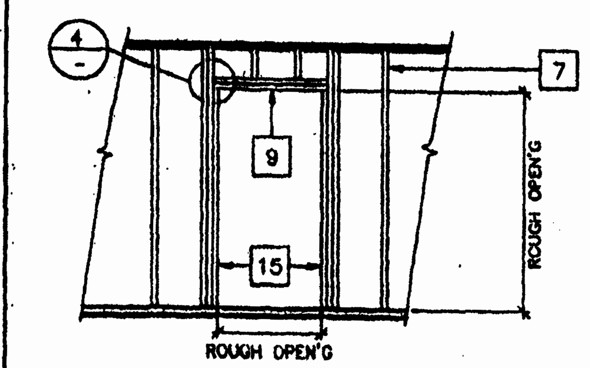
SECTION: HVAC IN ROOF 11



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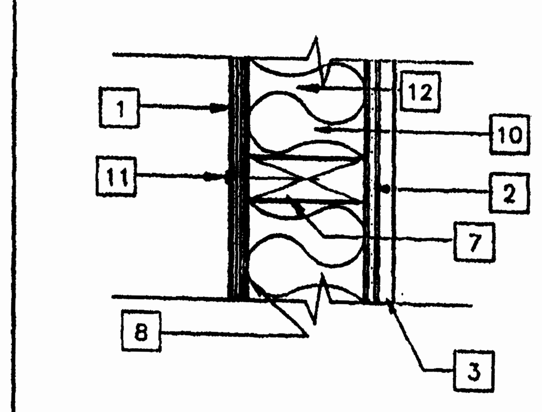
TYP. DOOR FRAMING 7



SCALE: 3"=1'

SECTION AT STUD 3

KEY NOTES

1. EXTERIOR PLYWOOD SIDING - SHEATHING NAIL W/GALV. BOX NAILS -8d AT 6" O.C. EDGES, 8d AT 12" O.C. IN FIELD
2. GYP. BOARD
3. TYP. INTERIOR FINISH-SEE FINISH SCHEDULE
4. E.N.
5. 2X4 BLK'G
6. "Z" FLASHING
7. 2X4 AT 16" O.C./DBL. 2X4 AT VERT. SIDING JOINT
8. WATERPROOF MEMBRANE
9. HEADER (SEE SCHEDULE S5.0)
10. INSULATION (SEE SPECIFICATIONS)
11. 8d ELECTRO GALV. 12" O.C.FN.
12. 2X4 SILL PLATE (BELOW)
13. FULL HEIGHT STUDS AND 1-2X4 TRIMMER (SEE OPENING SCHEDULE FOR JAMB STUDS REQ'D FOR DOORS & WINDOWS ONLY)
14. SILL PLATE (SEE SCHEDULE)
15. 2X4 FULL HEIGHT KING STUDS AND 2X4 TRIMMER (SEE SCHEDULE FOR QUANTITY)
16. A 34 CLIPS AT HEADER AND SILL TO FULL HEIGHT STUDS AND FULL HEIGHT STUDS TO TOP AND BOTTOM PLATES
17. 9GA. 8d 1 1/2" NAILS
18. LAP JOINT
19. 2" WIDE DUCT SUPPORT STRAP @ 48" O.C.
20. PLENUM
21. DUCTWORK
22. ROOF PURLIN
23. TRANSFER BOX
24. ROOF CHANNEL
25. 16D @ 16" O.C.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 106169 AC FLS SS DATE 4-14-04

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 103077 AC FLS SS DATE OCT 23 2001

OPENING SCHEDULE

OPENING	HDR.	SILL	JAMB	ROUGH OPENING HEIGHT	ROUGH OPENING WIDTH
3068	(2) 2X4	(2) 2X4	(2) 2X4 *	81 1/4"	38"
8040 **	(3) 2X4	(2) 2X4	(3) 2X4 *	48 1/8"	96 1/8"

* FULL HEIGHT STUDS

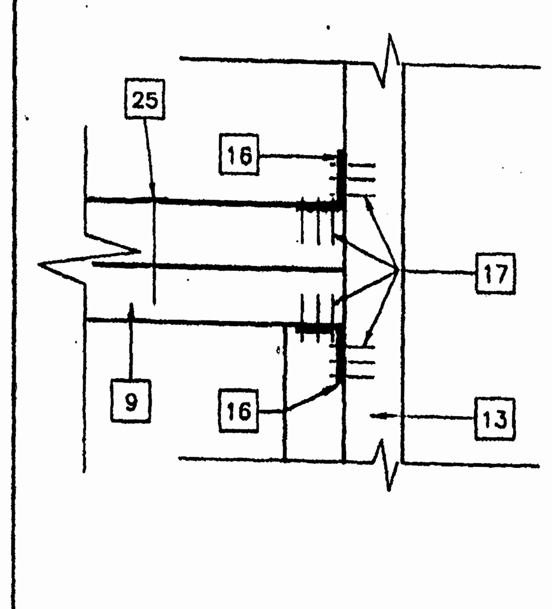
** ALL WOOD WINDOW HEADER SHALL BE D.F./ LARCH #2 GRADE

ALTERNATE: METAL STUD 3 1/2 " X 20 GA. IN LIEU OF 2X4 WD. STUDS

PC

ROUGH OPENING SCHEDULE | CBC 1998 | 12

8



SCALE: 3"=1'

HEADER DETAIL 4

NOTES

1. NAILING:
- NAILING IN ACCORDANCE W/ T.24 C.A.C TABLE 2-25 P
- ALL NAILS EXPOSED TO WEATHER SHALL BE GALV.
- MACHINE APPLIED NAILING SHALL HAVE PRIOR DEMOSTRATION AND APPROVAL BY O.S.A. / DSA FIELD REP. AND THE ARCHITECT.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 108216 AC FLS SS DATE 6/1/01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 102496 AC FLS SS DATE AUG 24 2000

BGH PROJECT NO. 200019.21
BGH PROJECT NO. 200019.31
PROJECT NO. PC-04-101419
FILE PATH: 2440-O-S5-O.DWG

REVISIONS		
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Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal

Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 AC DATE OCT 23

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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DRAWN BY: DATE: 2/1/01
CHECKED BY: SS DATE: 10/23/99

FRAMING DETAILS WOOD STUDS

MODTECH Index No. S5.0

AGENCY APPROVAL DSA# 02-121945 39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-121945 INC: REVIEWED FOR SS ☑ FLS ☑ ACS ☑ DATE: 12/12/2023

PROFESSIONAL STAMP

REVISIONS NO.	DATE	DESCRIPTION
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PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

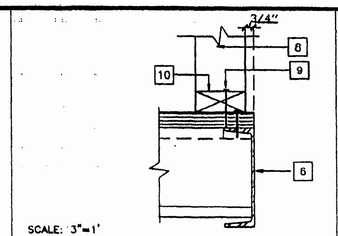
SHEET TITLE
WALL FRAMING DETAILS

DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.
S5.0
DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 11/28/2023 9:11:51 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK8V.rvt



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17	13	ENDWALL•ROOF HDR.	9

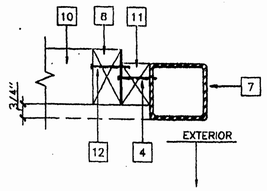

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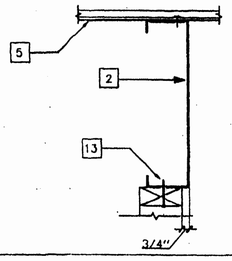
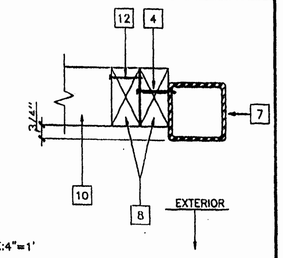
PLATE • FLOOR	4	COLUMN • SIDEWALL.	1



18	14	10	END WALL•ROOF HEADER	5



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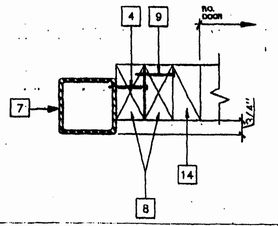
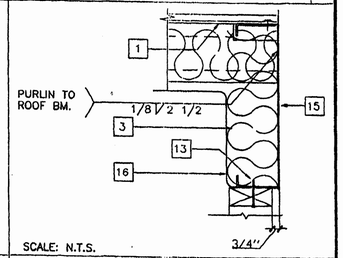
COLUMN • ENDWALL	2



19	15	11	COL•ENDWALL/DOOR	6



SCALE: N.T.S.

ROOFPURLIN • ROOFBEAM	3

20	16	12	8

PC

CBC 1998

KEY NOTES

1. 22 GA. MTL. ROOF DECK
2. [12GA. X 14" HEADER .
3. INSULATION SEE SPEC'S.
4. #10 S.T.S.M.S @24" O.C. OR 0.145ø SHOT PIN AT 24" O.C.
5. STANDING SEAM ROOF BEAM (SEE STRUCTURAL)
6. FLOOR BEAM (SEE STRUCTURAL)
7. TUBE STEEL COLUMN.
8. 2X4 STUD @ 16" O.C. TYP.
9. 16d BOX NAILS @ 8" O.C.
10. 2X4 SILL PLATE.
11. 2X TRIMMER @ CORNER.
12. 16d @ 24"O.C.
13. #10 S.T.S.M.S @ 16"O.C. OR AEROSMITH AKN 144.0175 DRIVE PIN.
14. 2X4 TRIM
15. ROOF BEAM
16. PROVIDE VAPOR BARRIER OVER INSULATION AT CEILING AND ROOF BEAMS .

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 103677 AC ___ FLS ___ SS ___ DATE OCT 2 3 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 103216 AC ___ FLS ___ SS ___ DATE 7/14/01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 106169 AC ___ FLS ___ SS ___ DATE 4-14-04

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 109494 AC ___ FLS ___ SS ___ DATE AUG 2 2 2004

FILE PATH: 2440-0-SS-1.DWG

PROJECT NO. ~~Bgt PROJECT NO. 200019.21~~ BGH PROJECT NO. 200019.31

PC-04-101419

REVISIONS

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Electrical Engineer's Seal

Mechanical Engineer's Seal

~~Structural Engineer's Seal~~

LICENSED ARCHITECT Jared Vincent Hallock No. C-34658 12-31-01 RENEWAL DATE STATE OF CALIFORNIA

Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 AC ___ FLS ___ SS ___ DATE 10/23/01

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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DRAWN BY: ___ DATE: 10/4/01
CHECKED BY: SS DATE: 10/22/01
MODTECH Index No.

WALL FRAMING DETAILS WOOD STUDS

S5.1

AGENCY APPROVAL DSA# 02-121945 39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-121945 INC: REVIEWED FOR SS ☑ FLS ☑ ACS ☑ DATE: 12/12/2023

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION
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PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
WALL FRAMING DETAILS (WOOD)

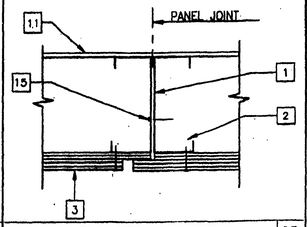
DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.
S5.1

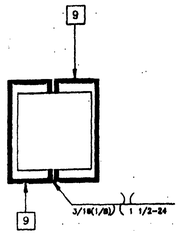
DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

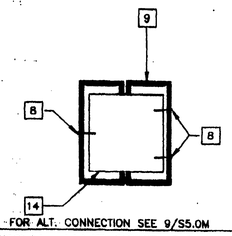
DATE PLOTTED: 11/28/2023 9:11:51 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK6V.rvt



17 WALL PANEL JOINT 13

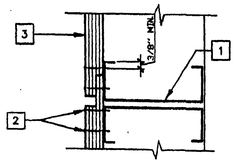


ALT. JMB. STUD CONN. DET. 9



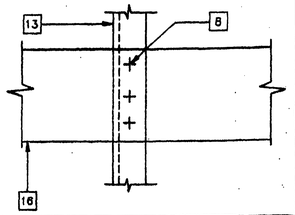
FOR ALT. CONNECTION SEE 9/S5.0M

TYPICAL JAMB STUD CONN. 5



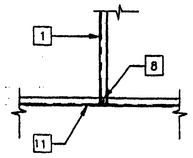
NOTE:
SEE DET. 13 FOR
ALTERNATE CONNECTION

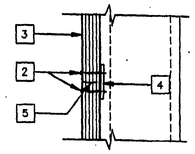
DETAIL AT VERT. PLYWD. EDGES 1



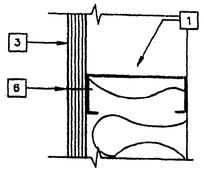
18 TYPICAL STRAP TO STUD 14

10 TYPICAL STUD TO TRACK CONN. 6





DETAIL AT HORIZ. PLYWD. EDGES 2



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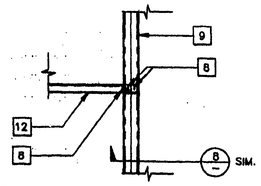
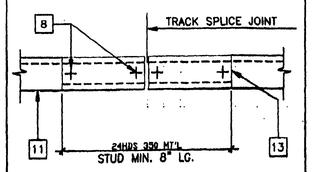


TYPICAL HEADER TO JAMB /
TYPICAL SILL TO JAMB CONN. 7

SECTION AT STUD 3

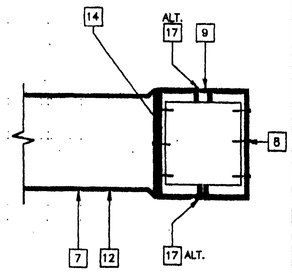
OPENING SCHEDULE				ROUGH OPENING	
OPENING	HDR.	SILL	JAMB	HEIGHT	WIDTH
3068	18T350		2-24HDS350	81 1/4"	38"
8040	18T350	18T350	2-20HDS350	48 1/8"	96 1/8"

LIGHT GAUGE STEEL PROPERTIES				
NUMBER	TYPE	MAJOR AXIS		
		A.	SX	IX
20 HDS 350	STUD	0.188 IN^2	0.251 IN^3	0.455 IN^4
24 HDS 350	STUD	0.115 IN^2	0.151 IN^3	0.279 IN^4
18 T 350	TRACK	0.254 IN^2	0.247 IN^3	0.444. IN^4

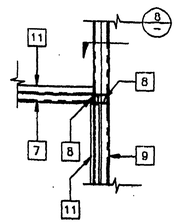


CBC 1998 PC

16 PARTITION TOP TRACK SPLICE 12



SECTION AT JAMB/HDR. CONN 8



HEADER DETAIL 4

KEY NOTES

1. 1 1/2"X3 1/2"X20GA MTL STUD @ 16" O.C.
2. #8 STSMS EN @ MAX. 6" O.C. OR ALT. ERIKO PIN AKN. 0.100 PER ICBO #4144
3. EXTERIOR FINISH (SEE FINISH SCHEDULE)
4. 20GA X 2 1/2" CONT. STRAP
5. 26GA. S.N. "⌐L " FLASHING
6. #8 STSMS FN @ MAX. 12" O.C. OR ALT. ERIKO PIN AKN. 0.100 PER ICBO #4144
7. HEADER (SEE OPENING SCHEDULE) COPE & BEND WED FOR ATTACHMENT TO JAMB STUDS
8. #6 STSMS WAFER HD.
9. JAMB STUD (SEE OPENING SCHEDULE FOR TYPE & QUANTITY) 1 1/2X3 1/2X20GA FULL HEIGHT STUD @ 4' OPENINGS, 2-1 1/2X3 1/2X20GA FULL HEIGHT AT 8' OPENINGS.
10. NOT USED
11. 1 1/2"X3 1/2"X18GA TRACK
12. 1 1/2"X3 1/2"X20GA STUD AS HEADER OR SILL (SEE OPENING SCHEDULE) COPE & BEND WED FOR ATTACHMENT TO JAMB STUDS
13. 1 1/2"X3 1/2"X20GA MTL. STUD
14. 20GA JAMB CLIP '⊔' @ MAX 24" O.C.
15. #6 STSMS @ 24" O.C.
16. 20GA X 4" WIDE STRAP
17. ALT WELDING 1" AT 18" O.C. IS AN ACCEPTABLE ALT. TO BOXING & SCREWING

NOTES

1. METAL STUDS- 1 1/2" X 3 1/2" X 20GA
2. EXTERIOR PLYWOOD ATTACHED TO STUDS W/ CORROSION-RESISTANT SCREWS
3. PROVIDE MOISTURE BARRIER BEHIND SIDING.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 103677 AC FLS SS DATE OCT 2 3 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 103216 AC FLS SS DATE 6/14/01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 106169 AC FLS SS DATE 4-14-04

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 102490 AC FLS SS DATE AUG 2 4 2004

REVISIONS

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Electrical Engineer's Seal | Mechanical Engineer's Seal | Structural Engineer's Seal | Architects Seal

LICENSED ARCHITECT FRED VINCENT WALLOCK No. C-24604 RENEWAL DATE 12/31/01 STATE OF CALIFORNIA

LICENSED ARCHITECT STATE OF CALIFORNIA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 AC FLS SS DATE

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

© MODTECH, INC. 1999

DRAWN BY: [illegible]
DATE: [illegible]
CHECKED BY: SS
DATE: 10/22/99

WALL FRAMING DETAILS METAL STUDS

MODTECH Drawing No. S5.0M

PROJECT NO. PC-04-101419

~~BGH PROJECT NO. 200019.21~~
BGH PROJECT NO. 200019.31

FILE PATH: 2440-0-SS-OM.DWG

AGENCY APPROVAL DSA# 02-121945
39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

PROFESSIONAL STAMP

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THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

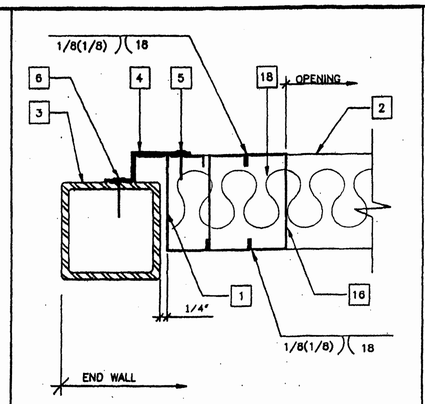
SHEET TITLE
WALL FRAMING DETAILS (METAL)

DRAWN BY: XXXXXX JOB NUMBER: 23219

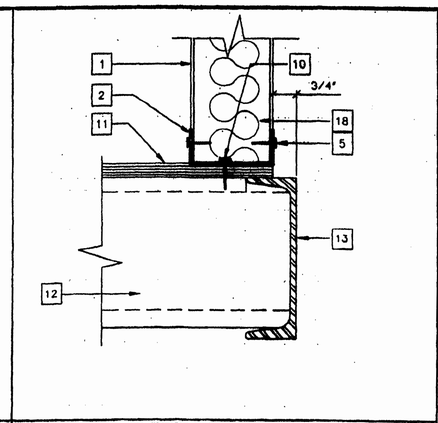
SHEET NO.
S5.0M
DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

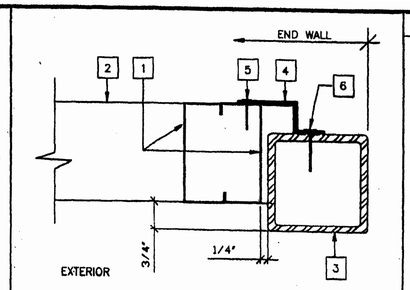
DATE PLOTTED: 11/28/2023 9:11:51 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK8V.rvt



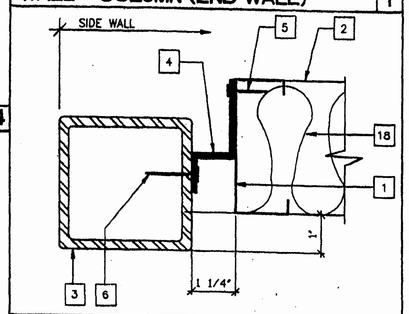
JAMB STUDS • COLUMN 7



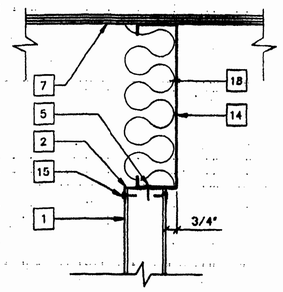
WALL AT FLOOR 4



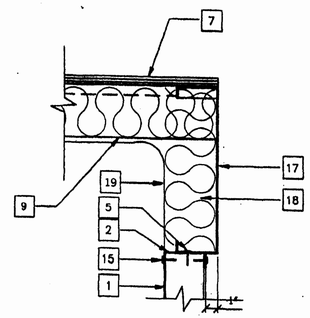
WALL • COLUMN (END WALL) 1



WALL • COLUMN (SIDE WALL) 2



WALL • ROOF HEADER 5



WALL • ROOF BEAM 3

KEY NOTES

1. 1 1/2" X 3 1/2" X 20GA MTL. STUD
2. 1 1/2" X 3 1/2" X 18GA TRACK
3. ST'L TUBE COLUMN (SEE S3.0)
4. 20GA. " ⌉⌊ " CON'T
5. #10 STSMS @ 24" O.C. OR 0.145# SHOT PINS @ 24" O.C.
6. AEROSMITH 0.145# SHOT PINS @ 24" O.C.
7. STANDING SEAM ROOFING
8. ROOF BEAM (SEE S2.0)
9. ROOF PURLIN (SEE S2.0)
10. 16d BOX @ MAX. 10" O.C. ALT. #10 X 1 1/2" W.S.
11. PLYWOOD FLOOR DECK (SEE S1.0)
12. FLOOR JOIST OR BLK'NG (SEE S1.0)
13. FLOOR BEAM (SEE S1.0)
14. ROOF HEADER (SEE S2.0)
15. #6 STSMS WAFER HD.
16. JAMB STUDS SEE SCHEDULE
17. ROOF BEAM
18. INSULATION– SEE SPECIFICATIONS
19. PROVIDE VAPOR BARRIER OVER INSULATION AT CEILING AND ROOF BEAMS.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 103677 AC ___ FLS ___ SS ___ DATE OCT 23 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 108216 AC ___ FLS ___ SS ___ DATE 6/14/04

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 105169 AC ___ FLS ___ SS ___ DATE 4-14-04

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 102490 AC ___ FLS ___ DATE AUG 24 2004

PC

CBC 1998

REVISIONS

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Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal

Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 AC ___ DATE OCT 25 1999

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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DRAWN BY: DATE: 4/4/01
CHECKED BY: DATE: 10/22/99

WALL FRAMING DETAILS METAL STUDS

CONTRACT Index No. S5.1M

PC-04-101419 PROJECT NO. ~~BGH PROJECT NO. 200019.21~~ BGH PROJECT NO. 200019.31

FILE PATH: 2440-0-S5-1M.DWG

AGENCY APPROVAL DSA# 02-121945 39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

PROFESSIONAL STAMP

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PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
WALL FRAMING DETAILS (METAL)

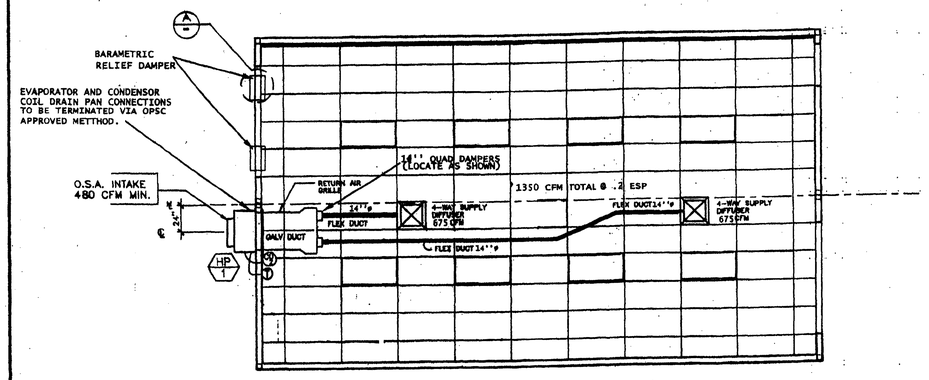
DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.
S5.1M

DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

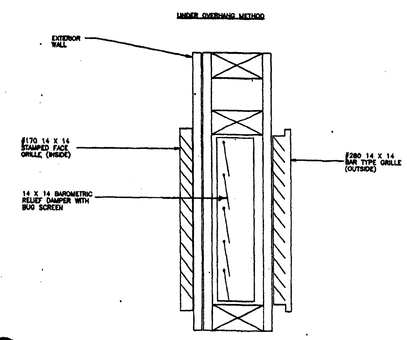
DATE PLOTTED: 11/28/2023 9:11:51 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK8V.rvt



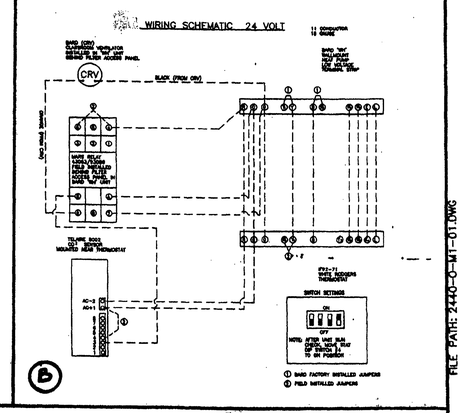
AIR CONDITIONING FLOOR PLAN – TYPE 1 BUILDING
1/4" = 1'-0"

BAROMETRIC RELIEF

UNDER OVERHANG METHOD



WIRING SCHEMATIC 24 VOLT



INSULATION APPLIED TO EXTERIOR SURFACE OF DUCTS LOCATED IN BLDGS SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 & A SMOKE-DENSITY NOT EXCEEDING 50 WHEN TESTED AS A COMPOSITE INSTALLATION. INCLUDING INSULATION, FACING MATERIALS, TAPES & ADHESIVES AS NORMALLY APPLIED.

HP 1 — HEAT PUMP, 12 SEER, BARD WALL MOUNT, WH61-A10CP4 10 KW
58,000 NOMINAL BTUH COOLING CAPACITY @ 90 F OUTDOORS 80/67°F INDOORS
57,000 NOMINAL BTUH HEATING CAPACITY FROM COMPRESSOR
ADDITIONAL 34,170 NOMINAL BTUH HEATING FROM 10 KW AUX. HEAT STRIP
@ 240V.
DUAL CIRCUIT:
CIRCUIT A: MCA 52 MDCP 60 WIRE SIZE #6
CIRCUIT B: MCA 52 MDCP 60 WIRE SIZE #6
1350 CFM @ .2 ESP, UNIT WT. 510lbs.
230V, 60 CYCLE, SINGLE PHASE

DUCTWORK: GALV. IRON PLENUM 60" WITH
GALV. IRON REGISTER BOXES
GAGE PER ASHRAE CODE REQUIREMENTS
FLEX DUCT PER CODE AND
SIZING PER .1" S.P.
INSULATE WITH 1" LINER INSULATION
PER: SPECIFICATIONS SECTION #3.23.2.1

CONTROLS: PER SPECIFICATION AND TITLE 24

AIR BALANCE: PER SPECIFICATIONS

OUTSIDE AIR INTAKE: PROVIDE 15 CFM x 32 = 480 CFM MINIMUM

(T) THERMOSTAT: WHITE RODGERS IF92 PROGRAMMABLE OR EQUAL W/LOCKABLE COVER , OPSC INSTRUCTION PLATE INSTALLED ON STAT

(CO_2) CO2 SENSOR: TELAIRE, 8002 PROGRAMMABLE W/WIRE GUARD

NOTES

1. INSULATION APPLIED TO EXTERIOR SURFACE OF DUCTS LOCATED IN BLDGS SHALL HAVE A FLAME SPREAD OF NOT MORE THAN 25 AND A SMOKE-DENSITY NOT EXCEEDING 50 WHEN TESTED AS A COMPOSITE INSTALLATION. INCLUDING INSULATION, FACING MATERIALS, TAPES AND ADHESIVES AS NORMALLY APPLIED
2. SCHOOL EQUIPMENT ANCHORAGE

THE FOLLOWING IS FOR THE MECHANICAL ENGINEER'S INFORMATION ONLY:

THE SEISMIC ANCHORAGE OF MECHANICAL EQUIPMENT SHALL CONFORM CCR TITLE 24, SECTION 1632A AND TABLE 16A-O. ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT WEIGHING LESS THAN 400 LBS AND HUNG EQUIPMENT WEIGHING LESS THAN 20 LBS. MAY BE OMITTED FROM THE PLANS.

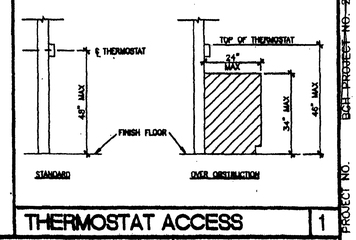
ALL MECHANICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:

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

FOR FLEXIBLY MOUNTED EQUIPMENT USE 4 TIMES THE ABOVE VALUES AND FOR SIMULTANEOUS VERTICAL FORCE USE 1/3 TIMES THE HORIZONTAL FORCE.

THE ABOVE VALUES ARE FOR AN IMPORTANCE FACTOR, I = 1.0 AND SEISMIC ZONE , Z = 4

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



THERMOSTAT ACCESS 1

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 103677 AC FLS SS DATE OCT 2 3 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 103211 AC FLS DATE

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 103490 AC FLS SS DATE AUG 4 2004

LICENSED ARCHITECT — STATE OF CALIFORNIA

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CBC 1998

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Electrical Engineer's Seal | Mechanical Engineer's Seal | Structural Engineer's Seal | Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 10410 AC FLS SS DATE 10-13-04

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

© MODTECH, INC. 1999

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 106169 AC FLS SS DATE 4-14-04 5 TON

DRAWN BY:
DATE:
CHECKED BY: SS
DATE: 10/22/99

MODTECH Index No.

MECHANICAL PLAN

M1.01

FILE PATH: 2440-0-M1-01.DWG

BGH PROJECT NO. 200019.31

~~BGH PROJECT NO. 200019.21~~

PROJECT NO. PC-04-101419

AGENCY APPROVAL DSA# 02-121945 39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

PROFESSIONAL STAMP

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PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
MECHANICAL (HVAC) PLAN 24'X40' 5 TON

DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.
M1.01
DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

DATE PLOTTED: 11/28/2023 9:11:51 AM FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK8V.rvt

ELECTRICAL PANEL SCHEDULE

MAIN: 150 AMP | PANEL: A | LOCATION: REAR/INTERIOR | FEED: REAR | MOUNTING: FLUSH

LOAD	WATTS A#	WATTS B#	BREAKER Amps	BREAKER P	CKT	A	B	CKT	BREAKER P	BREAKER Amps	WATTS A#	WATTS B#	LOAD
HEAT PUMP	6240		60	2	1			2	1	20	720		RECEPTS
HEAT PUMP		6240	–	–	3			4	1	20		900	RECEPTS/CLOCK
HEAT STRIP - 10 KW	6240		60	2	5			6	1	20	1000		COMPUTER
HEAT STRIP - 10 KW		6240	–	–	7			8	1	20		1000	COMPUTER
LIGHTS	760		20	1	9			10	1	20	1000		COMPUTER
LIGHTS		700	20	1	11			12	1	20		1000	COMPUTER
					13			14					
					15			16					
					17			18			2720	2900	
WATTS/PHASE A = 15,960	13240	13180										B = 16,080	WATTS/PHASE
TOTAL 32,040 WATTS	134		AMPS	120/240 VOLTS			SINGLE ϕ				THREE WIRE		

10 K.A.I.C. MIN

NOTES

1. PROVIDE MIN. 3" X 1 1/2" METAL TAG INSIDE ELEC. PANEL INDICATING OPSC NUMBER AND DSA NUMBER.
2. SCHOOL EQUIPMENT ANCHORAGE

THE FOLLOWING IS FOR THE ELECTRICAL ENGINEER'S INFORMATION ONLY:

THE SEISMIC ANCHORAGE OF ELECTRICAL EQUIPMENT SHALL CONFORM TO C.C.R. TITLE 24, SECTION 1630A.3 (g) AND TABLE 16A-O ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIP. WEIGHING LESS THAN 400 LBS. & HUNG EQUIPMENT WEIGHING LESS THAN 20 LBS. MAY BE OMITTED FROM THE PLANS.

FOR ELECTRICAL DRAWINGS:

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

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

FOR FLEXIBLY MOUNTED EQUIPMENT USE 4 X THE ABOVE VALUES, AND FOR SIMULTANEOUS VERTICAL FORCE USE 1/3 X THE HORIZONTAL FORCE.

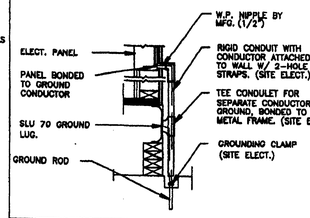
THE ABOVE VALUES ARE FOR AN IMPORTANCE FACTOR, I = 1.0 AND SEISMIC ZONE , Z = 0.4.

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

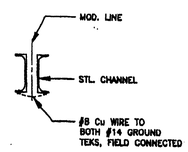
* SMOKE & HEAT DETECTORS SHOWN ARE FOR OPTIONAL AUTOMATIC DETECTION. IF ELECTED AS AN OPTION THEY MUST BE PROVIDED BY DISTRICT. NO PROVISIONS WILL BE MADE UNDER THIS CONTRACT.

GENERAL GROUNDING NOTES

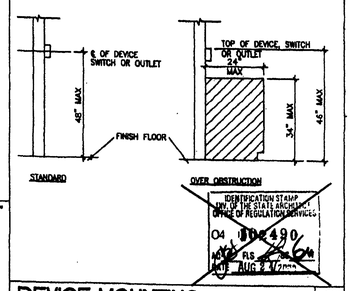
1. EACH BUILDING SHALL BE SEPARATELY GROUNDED WITH A 3/4" RD. X 8' COPPERCLAD STEEL GROUND ROD. WHERE ROCK BOTTOM IS ENCOUNTERED, ROD SHALL BE DRIVEN AT AN ANGLE NOT TO EXCEED 45 DEGREE'S FROM THE VERTICAL OR SHALL BE BURIED IN A TRENCH THAT IS AT LEAST 30" DEEP. (BY SITE ELECTRICAL)
2. TESTING: TEST FOR RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 8'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS. (BY SITE ELECTRICAL)
3. PROVIDE EQUIPMENT ANCHORAGE PER TITLE 24, TABLE 16 J, PART B.
4. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM FOR ALL SITES. THE FIRE ALARM SYSTEM AND/OR COMPONENTS MAYBE REQUIRED TO BE CHANGED DUE TO SITE LOCATION, EXISTING CONDITIONS OR INCOMPATIBLE COMPONENTS.
5. GROUND MG TEST SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR. ALL GROUNDING SHALL BE IN ACCORDANCE WITH C.E.C. ARTICLE 250.
6. TO ASSURE A QUALITY GROUND FOR COMPUTER OUTLETS AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE RUN WITH THE RECEPTACLE CIRCUITS FROM THE PANEL GROUND BUS AND SHALL BE BONDED TO THE GROUND TERMINAL OF EACH RECEPTACLE PER CEC ART. 250



TYP GROUNDING DETAIL 1



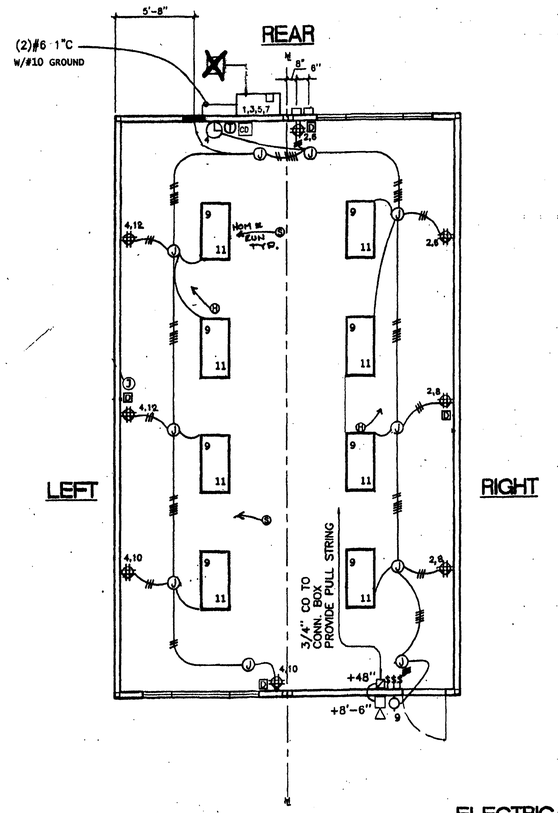
GROUND JUMPER • MOD LINE 2



DEVICE MOUNTING 3

ELECTRICAL LEGEND

- 2 X 4 – 4 TUBE T8 FLOURESCENT LIGHT FIXTURE W/ELECT. BALLAST (SEE SPEC. FOR LABELING INSIDE FIXTURE.0
- EXTERIOR LIGHT, 13 WATT FLOUR. WITH PHOTO CELL AND SWITCH CONTROL, AT +90" AFF. (SEE SPECS)
- SWITCH AT +48" AFF (SEE SPECS)
- RECEPTACLE, FOURPLEX (2 DUPLEX RECEPTACLES IN TWO GANG BOX) COLORS: COMMENCE – IVORY (I) COMPUTER – GREY (G)
  WALL MOUNT AT +18" AFF – UNO, COVER PLATES – IVORY
  *SEE GROUNDING NOTE #6
- JUNCTION BOX, 4"SQ X 2 1/8" W/SINGLE DEVISE RAISED RING AND 3/4" CONDUIT W/BUSHING TO ATTIC. MOUNT AT 7'-6" AFF AND PROVIDE SGL. GNG. BLANK COVER PLATE.
- JUNCTION BOX, 2 GANG RAISED RING W/2 GANG BLANK COVER +24" AFF. 1" CONDUIT TO ATTIC. PULLSTRING.
- HVAC UNIT – SEE MECH PLAN
- THERMOSTAT – #IF92 W/LOCKABLE COVER, 48" AFF
- 4SD J-BOX FOR FIRE ALARM PULL STATION AT +48" AFF, TO ℄ 3/4" CO TO OR . PULLSTRING
- 4SD J-BOX FOR FIRE ALARM STROBE AT +80" AFF 3/4" CO TO PULLSTRING
- 4SD J-BOX FOR FIRE ALARM HORN AT +96" AFF 3/4" CO TO . PULLSTRING
- WEATHER PROOF GUTTER BOX (8"x8"x4") AT +18" AFF RECEIVE 3/4" CO FROM FA DEVICE, PULLSTRING
- ELECTRICAL PANEL AT +60" AFF TO CENTERLINE 1 1/4" POWER NIPPLE POC, GND JUMPER BY SITE ELECT
- CLOCK AT +90" AFF
- CARBON DIOXIDE DETECTOR, SGL. GNG. BOX WIRED TO FRESH AIR DAMPER. CONTROLLER W/WIRE GUARD AT 96" AFF



ELECTRICAL PLAN (24'X40')

"A" SHOWN
"B" OPPOSITE

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

PC
CBC 1998

REVISIONS		
1		
2		
3		
4		
5		

Electrical Engineer's Seal | Mechanical Engineer's Seal | Structural Engineer's Seal | Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 AC FLS SS DATE OCT 2 3 2001

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

© MODTECH, INC. 1999

DRAWN BY: DATE:
CHECKED BY: SS 4/4/01
DATE: 10/22/99

ELECTRICAL PLAN W/ DATA

MODTECH Index No.
E1.01

PC-04-101419 PROJECT NO.

~~BGH PROJECT NO. 200019.21~~
BGH PROJECT NO. 200019.31

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 103027 AC FLS SS DATE OCT 2 3 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 103216 AC FLS DATE 6/14/01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 106490 AC FLS DATE AUG 2 4 2004

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 106159 AC FLS SS DATE 4-4-04

AGENCY APPROVAL DSA# 02-121945 39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-121945 INC: REVIEWED FOR SS FLS ACS DATE: 12/12/2023

FILE PATH: 2440-0-ET-01.DWG

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION
1		
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3		
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PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
ELECTRICAL PLAN 24'X40

DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.
E1.01
DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK6V.rvt

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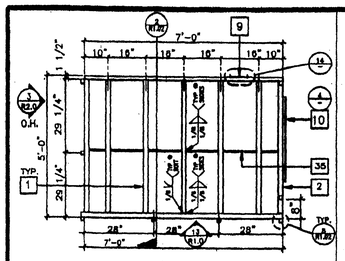
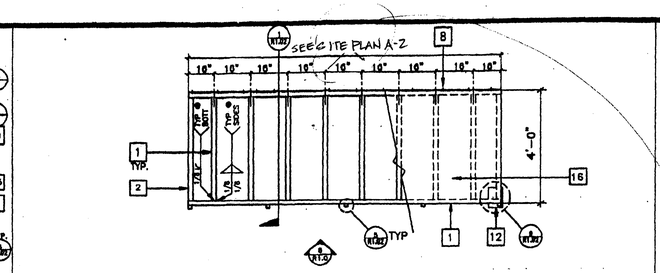
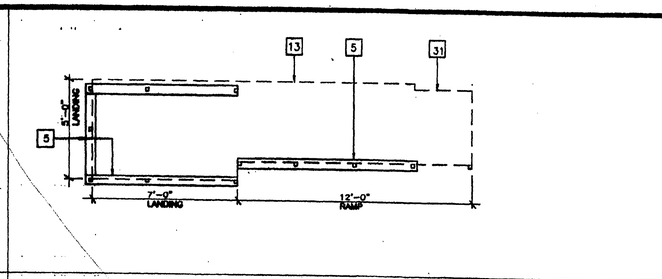


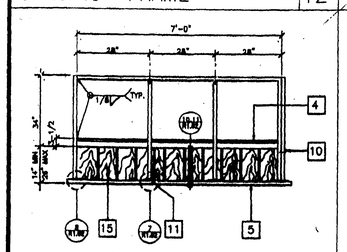
LANDING FRAME | 12



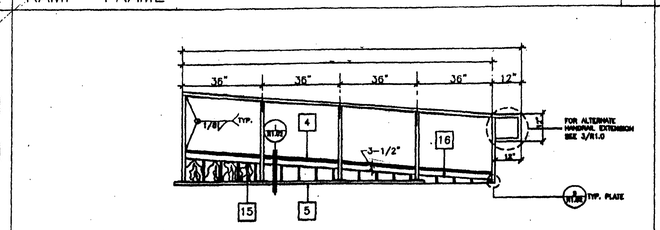
RAMP FRAME | 7



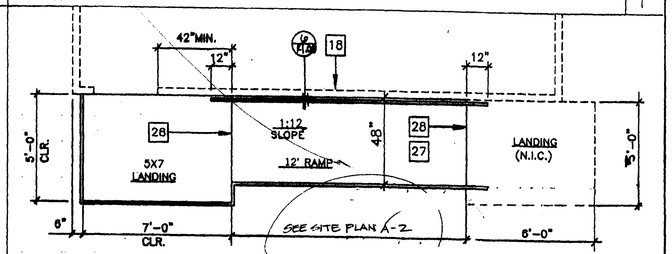
SILL PLAN FOR RAMP AND LANDING | 3/8" | 1



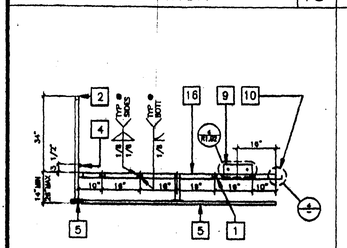
LANDING ELEVATION | 13



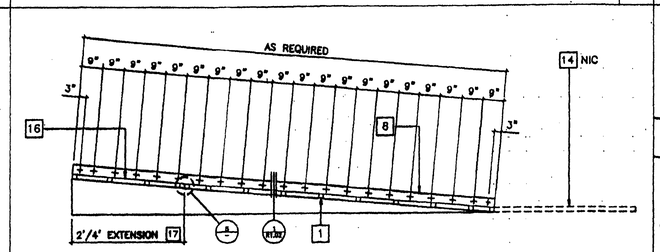
RAMP ELEVATION | 8



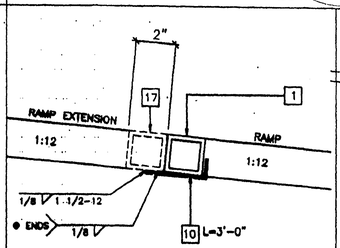
RAMP AND LANDING AT BUILDING | 3/8" | 2



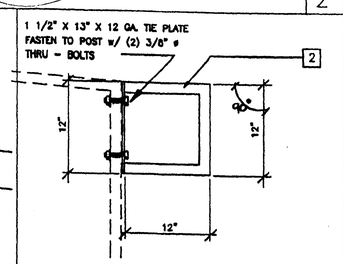
LONG. SECTION @ LANDING | 14



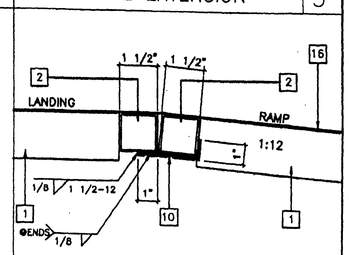
LONGITUDINAL SECTION @ RAMP | 9



RAMP EXTENSION TO RAMP | 5



GUARD RAIL EXTENSION | 3



LANDING TO RAMP | 4

KEY NOTES

1. TS 2" x 2" x 14ga
2. TS 1 1/2" x 1 1/2" x 14ga (Fy = 36KSI)
4. TS 1" x 1" x 16ga WHEELCHAIR GUIDE
5. 2 x 6 PT SILL PLATE
8. 6" x 10ga CONT. PLATE W/ 1/4" X 2" TEK SCREWS @9"OC INTO WOOD OR FOUND. BLOCKS OR #14 x 2" TEK SCREWS INTO STEEL @ 9" OC
9. 6" x 12" x 10ga PLATE W/2-1/4" x 3" LAGS TO STRUCTURAL FRAME OF BUILDING
10. 3" x 1" x 3'-0" x 10ga BENT PLATE
11. 2" x 4" x 12ga BASE PLATE W/2-1/4" x 1" LAGS
12. 6" x 10" x 12ga BASE PLATE @ RAMP TOE
13. LINE OF RAMP/LANDING ABOVE
14. LOWER LANDING BY DISTRICT
15. SKIRTING: PLYWOOD TO MATCH BUILDING SIDING. BLOCK ALL EDGES. ATTACH W/ 8d @ 6" OC EDGES AND 12"OC FIELD. AT EDGE CONNECTION TO T.S. USE #14 x 2" TEK SCREWS @ 6"OC
16. 12ga METAL DECK: NON-SLIP SURFACE. DESIGN COEFFICIENT OF FRICTION GREATER THAN 6%. MAINTAINABLE FOR 1 YR.
17. RAMP EXTENSION FRAME.
18. EXISTING BUILDING.
27. RAMP BY MODTECH
28. FLUSH TRANSITION
31. NOTCH BOTTOM PLATE (MUD SILL) AS REQUIRED TO CLEAR RAMP TOE. MAX NOTCH 1 1/2" x 4'-0" LONG.
35. TS 1" x 1" x 16ga

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 108527 AC FLS SS DATE OCT 2 3 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 109216 AC FLS SS DATE 6/14/01

NOTES

1. RAMPS: RAMPS SHALL NOT SLOPE MORE THAN 1" IN 12"
2. HANDRAILS: HANDRAILS AT BOTH SIDES OF RAMP AT 34" HT.
3. SURFACE: LANDING & RAMP TO HAVE NON SLIP SURFACE ANCOR GRIP II AS MANUFACTURED BY AMERICAN CHEMICAL COMPANY (OR EQUAL)
4. GROUNDING: PROVIDE GROUNDING OF RAMP TO BLDG FRAME W/#8 CU TO BOTH GROUND LUGS.
5. ARCHITECT SITE / RAMP / LANDING PLANNING: DUE TO VARYING SITE CONDITIONS THE MAXIMUM HEXGHT OF FINISH FLOOR FROM GRADE IS 26" THEREFORE IT IS POSSIBLE THAT THE ACCESS RAMP ATTACHED TO THE BUILDING COULD BE 26'-0" AT A SLOPE OF 1:12 ARCHITECT MUST TAKE INTO ACCOUNT THAT THE RAMP SUPPLIED BY MODTECH INC. IS 11'-0" 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 MODTECH INC. RESPONSIBLE FOR ANY RAMP EXTENSION EXCEEDING THE ORIGINAL PLAN AS SHOWN ON SHEET R-1.
6. ALL 1 1/4" AND 1 1/2" TUBE STEEL TO BE OF ASTM A500 GRADE A STEEL (Fy = 39 KSI)

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 108490 AC FLS SS DATE AUG 2 1 2000

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 106169 AC FLS SS DATE 4-14-04

PC
CBC 1998

REVISIONS

Electrical Engineer's Seal | Mechanical Engineer's Seal | Structural Engineer's Seal | Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 AC FLS DATE OCT 2 3 2001

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

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DRAWN BY: dh
DATE: 2/21/01
CHECKED BY: SS
DATE: 10/23/99

RAMP/LANDING 12' RAMP

MODTECH DWG. NO. R1.01

PC-04-101419

PROJECT NO. 99H PROJECT NO. 200013.21 BGH PROJECT NO. 200019.31

AGENCY APPROVAL DSA# 02-121945 39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APP: 02-121945 INC: REVIEWED FOR SS ☑ FLS ☑ ACS ☑ DATE: 12/12/2023

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION
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PROJECT OWNER & TITLE
LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE
RAMP/LANDING PLAN W/ 12' RAMP

DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.
R1.01

DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

FILE PATH: 2440-0-1.DWG

FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK6V.rvt

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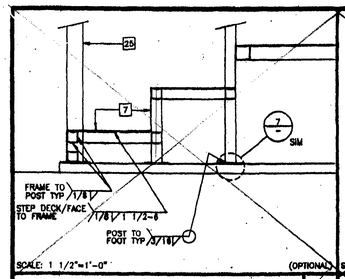
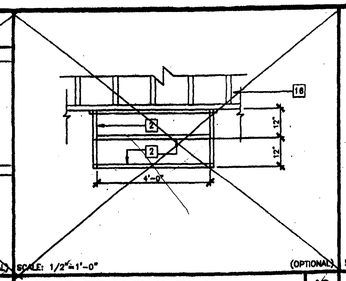
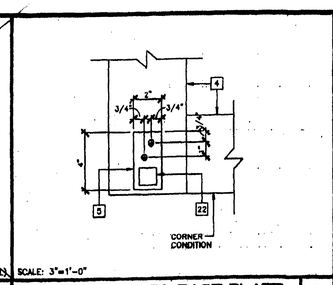


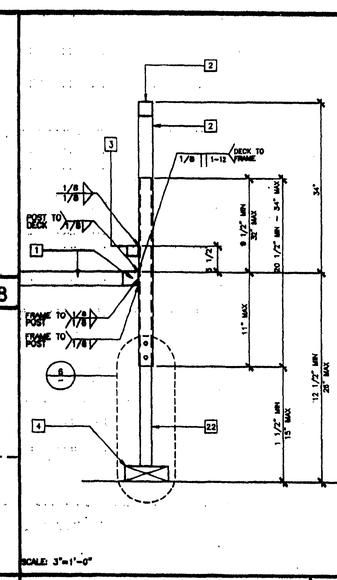
STAIR SECTION 16

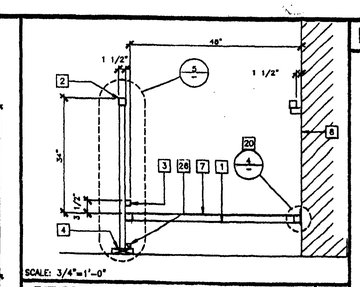


STAIR FRAMING PLAN 12

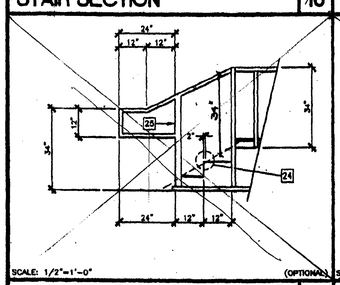


ADJUSTABLE LEG BASE PLATE 8

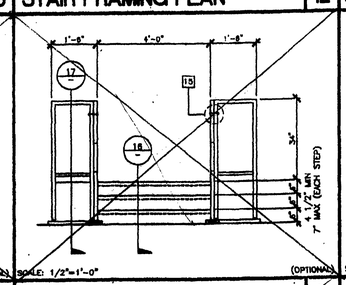




SECTION AT RAMP 1



STAIR ELEVATION 17



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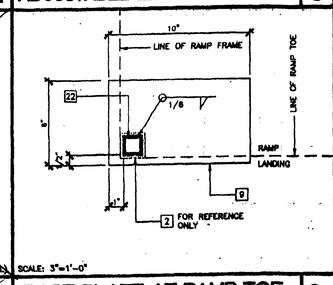
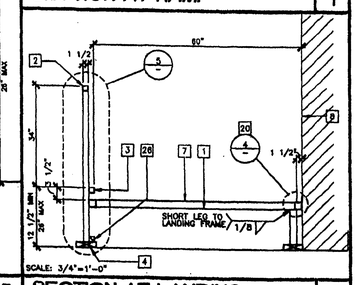
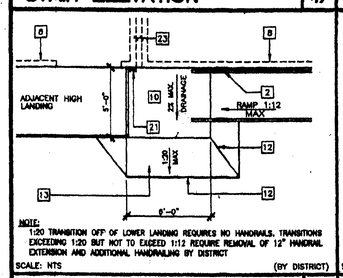


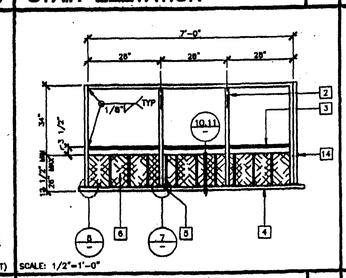
BASE PLATE AT RAMP TOE 9



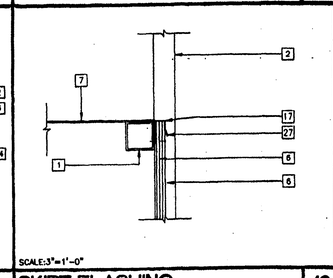
SECTION AT LANDING 2



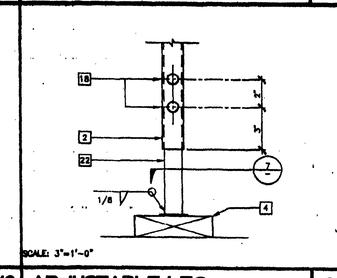
RAMP TRANSITION 18



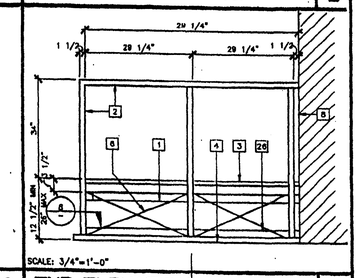
LANDING ELEVATION 14



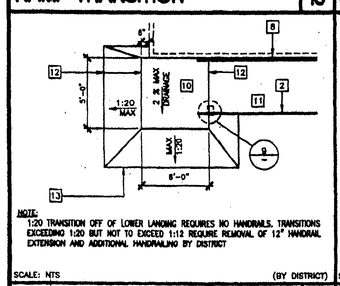
SKIRT FLASHING 10



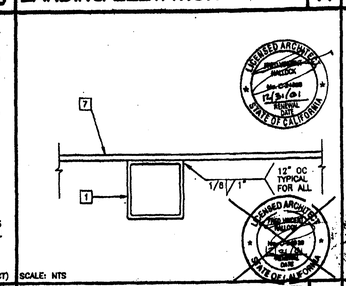
ADJUSTABLE LEG 6



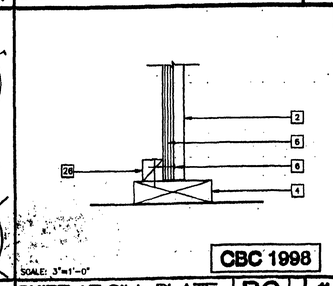
END ELEVATION 3



RAMP TRANSITION 19

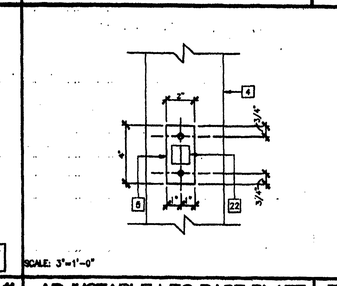


SECTION AT INTERIOR FRAME 15

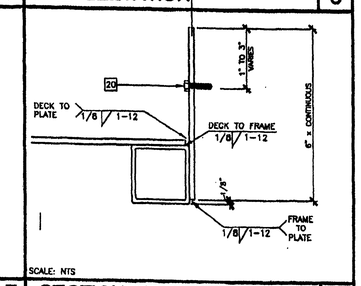


SKIRT AT SILL PLATE PC 11

CBC 1998



ADJUSTABLE LEG BASE PLATE 7



SECTION AT PLATE 4

KEY NOTES

1. TS 2"x2"x14 GA
2. TS 1 1/2"x1 1/2"x14 GA (Fy = 39 KSI). ROUNDED OR BEVELED AT CORNERS.
3. TS 1"x1"x18 GA WHEELCHAIR GUIDE
4. 2"x8" PRESSURE TREATED SILL PLATE
5. 2"x4"x12 GA BASE PLATE WITH 2-1/4"x1" LAGS
6. SKIRTING: PLYWOOD TO MATCH BUILDING SIDING. BLOCK ALL EDGES. ATTACH WITH 8d AT 6" OC EDGES AND 12" OC FIELD. AT EDGE CONNECTION TO TS. USE #14x2" TEK SCREWS AT 6" OC
7. 12GA METAL DECK: NON-SLIP SURFACE. DESIGN COEFFICIENT OF FRICTION GREATER THAN 0.6. MAINTAINABLE FOR 1 YR. PROVIDE ROUNDED OR BEVELED EDGES ON STAIR NOSING.
8. EXISTING BUILDING.
9. 6"x10"x12 GA BASE PLATE AT RAMP TOE.
10. LOWER LANDING BY DISTRICT
11. RAMP BY MODTECH
12. FLUSH TRANSITION
13. PAVE BY DISTRICT
14. 3"x1"x3'-0"x10 GA BENT PLATE
15. FASTEN POSTS WITH 3/8" DIA THRU BOLT, TYPICAL
16. RAMP LANDING, TYPICAL
17. 26 GA FLASHING
18. 3/8" DIAx2" LONG MB WITH NUT & WASHERS
19. CAULKING
20. 6"x10GA CONTINUOUS PLATE WITH #14x2" TEK SCREWS AT 9" OC INTO WOOD OR FOUNDATION BLOCKS OR #14x2" TEK SCREWS INTO METAL AT 9" OC
21. PROVIDE DIVERSION FOR WATER FROM DOWNSPOUT FOR THIS CONDITION. BY DISTRICT
22. TS 1 1/4"x1 1/4"x14 GA (Fy = 39 KSI)
23. 4" MINIMUM BUILDING SEPARATION
24. 2" SLIP RESISTANT WARNING STRIPES MAX 1" FROM EVERY STAIR NOSING. USE CONTRASTING COLOR.
25. TS 2 1/2"x1 1/2"x8 GA ASTM A500 GRADE A
26. 2"x2" NAILER WITH 16d AT 12" OC
27. 26 GA GALV. FLASH

REVISIONS

1			
2			
3			
4			
5			

Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal

Architects Seal

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES PC-04 101419 AC FLS SS DATE OCT 2 3 2001

MODTECH INC.
2830 BARRETT AVENUE
PERRIS, CALIF. 92572
PH (909) 943-4014
FAX (909) 940-0427

PROJECT NUMBER:

© MODTECH, INC. 1999

DRAWN BY: JK DATE: 4/11/01
CHECKED BY: SS DATE: 10/22/99

RAMP/LANDING DETAILS

MODTECH Index No. R1.02

PC-04-101419

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 108677 AC FLS SS DATE OCT 2 3 2001

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 103216 AC FLS SS DATE 6-14-01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02 106169 AC FLS SS DATE 4-14-01

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 04 102890 AC FLS SS DATE AUG 2 4 2000

AGENCY APPROVAL DSA# 02-121945 39-50

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

FILE PATH: 2440-0-R1.02.DWG

~~BGH PROJECT NO. 200019.21~~
BGH PROJECT NO. 200019.31

PROFESSIONAL STAMP

REVISIONS

NO.	DATE	DESCRIPTION
-		
-		

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.

PROJECT OWNER & TITLE

LODI UNIFIED SCHOOL DISTRICT
1305 E. Vine St
Lodi, CA 95240

MILLSWOOD MIDDLE SCHOOL PORTABLES RELOCATION
233 N Mills Ave
Lodi, CA 95242

SHEET TITLE

RAMP/STAIRS DETAILS

DRAWN BY: XXXXXX JOB NUMBER: 23219

SHEET NO.

R1.02

DATE: DECEMBER 5, 2023

CONSTRUCTION DOCUMENTS

FILE LOCATION: C:\Users\bimhoff\Documents\BIM\23219_LUSD_Millswood Middle School Portables Relocation_A22_bimhoffCZK6V.rvt

DATE PLOTTED: 11/28/2023 9:11:51 AM

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO 2022 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISIONS OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR
3. 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
4. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TEST AND INSPECTIONS FOR THE PROJECT
5. THIS PC IS NOT APPROVED FOR CHAPTER 7A WILDLAND URBAN AREAS. WHEN THIS PC IS SITE ADAPTED FOR PROJECT SPECIFIC, THE REQUIREMENTS IS TO BE REVIEWED AND APPROVED BY THE PROJECT SPECIFIC PLAN REVIEWER

BUILDING CODES AND STANDARDS

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24, CCR
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, CCR
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24, CCR
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, CCR
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, CCR)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, CCR
2022 CALIFORNIA EXISTING BUILDING STANDARDS CODE (CEBC), PART 10, TITLE 24
2022 CALIFORNIA GREEN BUILDING STANDARD CODE (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS

SKC COMPANY
15345 FAIRFIELD RANCH RD - SUITE 160 CHINO HILLS, CA 91709
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER #MF1279666 DEALER # DL1279666
GC LIC # 992118 SBE CERTIFIED

2022 CBC
ACCESSIBLE RAMP / LANDING / STAIR PC DESIGN (LESS THAN 30" SYSTEM)
RISK CATEGORY II
PC 04-122029

DRAWING SYMBOLS & LEGEND

- KEY NOTE SYMBOL
- INDICATES DETAIL #
- INDICATES SHEET #
- INDICATES EXTERIOR ELEVATION #
- INDICATES SHEET #
- INDICATES CUT SECTION DETAIL#
- INDICATES SHEET #

SHEET INDEX

SHEET NO.	ARCHITECTURAL
R-1	COVER SHEET
R-2	DSA 103 TEST & SPECIAL INSPECTIONS SAMPLE
R-3	CONSTRUCTION SPECIFICATIONS & NOTES
R-4	STANDARD RAMP & LANDING (ATTACHED HANDRAIL TO BUILDING)
R-9	RAMP & LANDING DETAILS

TOTAL SHEET COUNT: 5

DESIGN PARAMETERS

1. RAMP LIVE LOAD: 100 PSF
2. NO SNOW LOAD (GROUND SNOW LOAD Pg= 0 psf)
3. NO FLOOD LOADING
4. WIND:
   WIND DESIGN PER ASCE 7-16, CHAPTER 29
   SEE SCHEDULE BELOW FOR SITE SPECIFIC PARAMETERS
5. SEISMIC:
   RISK CATEGORY=II
   R = 1.25 (ASCE 7-16 TABLE 15.4-2)
   Ie = 1.0
   SITE CLASS = A,B, OR D
   S_s = 2.41
   Fa = 1.0
   S_{DS} = 1.61
   S_1 = 1.4

   SITE CLASS = C, OR D (DEFAULT)
   S_s = 2.01
   Fa = 1.2
   S_{DS} = 1.61
   S_1 = 1.4
   C_s = 1.93
6. ALLOWABLE SOIL BEARING = 1000 PSF

SITE SPECIFIC PARAMETERS

INSTRUCTIONS: DESIGN PROFESSIONAL SHALL CHECK THE APPROPRIATE SELECTION BOXES BELOW AND ENTER THE DESIGN PARAMETERS APPLICABLE TO THE SPECIFIC PROJECT SITE

WIND

V = 93 MPH < 95 MPH BASIC DESIGN WIND SPEED

Kzt = _____ ≤ 1.0

EXPOSURE: [X] C [ ] D

SEISMIC

SELECT ONE

[X] DESIGN BASED ON SITE CLASS D DEFAULT
NO GEOTECHNICAL INVESTIGATION REQUIRED
Ss = 0.627 Fa = 1.2

[ ] DESIGN BASED ON SITE CLASS DETERMINED PER CHAPTER 20 OF ASCE 7-16
GEOTECHNICAL INVESTIGATION PROVIDED
SITE CLASS: [ ] C [ ] D [ ] E
Ss = _____ Fa = _____ PER ASCE 7-16 SUPPL 3 TABLE 11.4-1

[ ] DESIGN BASED ON SITE CLASS GROUND MOTION HAZARD ANALYSIS PER CHAPTER 21 OF ASCE 7-16
SHORT-PERIOD DESIGN SPECTRAL RESPONSE PARAMETER, S_{DS}, SHALL BE AS SPECIFIED IN GEOTECHNICAL INVESTIGATION
CGS APPROVAL REQUIRED
NOT ELIGIBLE FOR OTC REVIEW
SITE CLASS: [ ] C [ ] D [ ] E
Ss = _____ Fa = _____

S_{DS} = 2/3 Fa Ss= _____ ≤ 1.607

Cs = 1.607 USED IN DESIGN
SEISMIC DESIGN CATEGORY: [X] D [ ] E
ASCE 7-16 12.8.1.3 HAS NOT BEEN USED IN CALCULATION OF Sds

PC LIMITATIONS

1. THE MAXIMUM DECK HEIGHT DESIGNED ON THIS PC IS 30". VERIFY WITH BUILDING MANUFACTURER MAXIMUM FINISH FLOOR HEIGHT FOR ABOVE GRADE FOUNDATIONS. THE MAXIMUM DECK HEIGHT SHALL BE SET FORTH PER THE BUILDING MANUFACTURER MAXIMUM FINISH FLOOR HEIGHT HOWEVER NOT TO EXCEED 30" MAX
2. THE MAXIMUM RAMP HANDRAIL DESIGN ON THIS PC IS 34" AFF
3. THIS PC IS NOT DESIGNED FOR DECKS HIGHER THAN 30" OR A GUARDRAIL DESIGN AT 42" MIN WHEN DECK HEIGHT EXCEEDS 30"
4. THE MINIMUM POINT LOAD DESIGNED ON THE HANDRAILS IS 200#
5. THE RAMP CLEAR WIDTH SET FORTH ON THIS PC IS DESIGNED FOR OCCUPANCIES LESS THAN 100 (OR NO GREATER THAN 48" CLEAR WIDTH)
6. THE STAIRS MAXIMUM CLEAR WIDTH SET FORTH ON THIS PC IS 48" MAX
7. THE MAXIMUM RAMP LENGTH SET FORTH ON THIS PC IS 30'-0" MAX
8. THE MAXIMUM SINGLE DECK SECTION SET FORTH ON THIS PC IS 6'-6" X 19'-10 1/2". ADDITIONAL DECK SECTIONS CAN BE ADDED TOGETHER (SEE #8/R-9) ON ANY SIDE OF THE DECK. THE MINIMUM DECK SECTION IS SHALL BE NO LESS THAN 4'-0" X 1'-0"
9. **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 SCOPE OF WORK INCLUDING NEW CONSTRUCTION, ALTERATION, OR RELOCATION OF RAMP. REFER TO DSA 103 APPENDIX, IR PC-2 AND IR PC-6**
10. RAMP SLOPE SHALL NOT BE LESS THAN 1:12 (OR GREATER THAN 8.33% MAX). RAMP SLOPE GRATER THAN 1:20 (OR LESS THAN 5.0%) DOES NOT NEED TO COMPLY WITH HANDRAIL REQUIREMENTS

STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS [X] FLS [X] ACS [X]
DATE: 12/12/2023

SKC COMPANY
15345 FAIRFIELD RANCH RD - SUITE 160 CHINO HILLS, CA 91709
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER #MF1279666 DEALER # DL1279666
GC LIC # 992118 SBE CERTIFIED

ALL DESIGNS INDICATED ON THESE PLANS/DRAWINGS ARE PROPERTY OF SKC, INC AND ARE FOR THE USE BY SKC IN THE SPECIFIED JOB ONLY. THEY SHALL NOT BE USED AND/OR DUPLICATED OR TRANSMITTED IN ANY FORM, FOR ANY PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF SKC, INC. ANY UNAUTHORIZED USE OF THESE PLANS SHALL SUBJECT THE OWNER OF SAID PROPERTY TO LIQUIDATED DAMAGES OF $75,000.00. THESE PLANS ARE PROTECTED UNDER THE PROVISIONS OF THE 1976 COPYRIGHT ACT COPYRIGHT SKC, © ALL RIGHTS RESERVED.

DISTRICT/CUSTOMER NAME:

SCHOOL/SITE NAME:

SHEET TITLE:

COVER SHEET

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

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122029 PC
REVIEWED FOR
SS [X] FLS [X] ACS [X] SG [ ]
DATE: 09/27/2023

PROFESSIONAL OF RECORD ON PC

ORION
Structural Engineering, Inc.
11305 RANCHO BERNARDO RD
SUITE 121
SAN DIEGO CA, 92127
PHONE (858) 679-1974
REGISTERED PROFESSIONAL ENGINEER
RYAN J. ORR
No. 3237
EXP. 12/31/24
STRUCTURAL
STATE OF CALIFORNIA

FIRM: ORION STRUCTURAL ENGINEERING, INC.
ADDRESS: 11305 RANCHO BERNARDO ROAD, SUITE 121
CITY: SAN DIEGO, CA 92127
PHONE: (858) 679-1974

PROJECT SPECIFIC PROFESSIONAL OF RECORD

LODI UNIFIED SCHOOL DISTRICT
MILLSWOOD MIDDLE SCHOOL
PORTABLE RELOCATION
DSA APP# 02-121945
FILE No.: 39-50
PTN: 68585-261

FIRM:
ADDRESS:
CITY:
PHONE:

REVISIONS
1 -
2 -
3 -
4 -
5 -

PROJECT NO.:	00-0000
DRAFTER:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

R-1

9/26/2023 9:27:23 AM

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

Application Number:	School Name:	School District:
04-122029	Accessible Ramp Landing Stair PC	SKC Company
DSA File Number:	Increment Number:	Date Created:
PC-116		2023-02-20 13:43:59

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.

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

Application Number:	School Name:	School District:
04-122029	Accessible Ramp Landing Stair PC	SKC Company
DSA File Number:	Increment Number:	Date Created:
PC-116		2023-02-20 13:43:59

	X1. OTHER:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Load test for identified product(s):	Test	LOR	1709A.2, 1709A.3. Testing is not required for: 1) a product with a valid evaluation service report per DSA IR A-5; or 2) a product that can be justified by structural calculation.
☐	b. Installation torque for non-HS bolts	Continuous	SI*	Applicable to communication towers identified as Essential Service Facility Projects (ESFP). Calibrated wrench use required, verified by SI during installation. DSA Policy PL 18-01: Communication Towers, Poles and Buildings Utilized by State Agencies for Essential Services Communications.*EXCEPTION: Non-ESFP may use PI without need for notification to DSA.
☐	c.			

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

Application Number:	School Name:	School District:
04-122029	Accessible Ramp Landing Stair PC	SKC Company
DSA File Number:	Increment Number:	Date Created:
PC-116		2023-02-20 13:43:59

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

	SOILS:
☐	1. Deep foundations acting as a cantilever footing with a design based on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.
☐	2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill.

	CONCRETE/MASONRY:
☐	1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding" in the Appendix below) given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding" in the Appendix below.
☐	2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.
☐	3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.
☐	4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.

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

Application Number:	School Name:	School District:
04-122029	Accessible Ramp Landing Stair PC	SKC Company
DSA File Number:	Increment Number:	Date Created:
PC-116		2023-02-20 13:43:59

	CONCRETE/MASONRY:
☐	5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.

	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, <400# 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.

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

Application Number:	School Name:	School District:
04-122029	Accessible Ramp Landing Stair PC	SKC Company
DSA File Number:	Increment Number:	Date Created:
PC-116		2023-02-20 13:43:59

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

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

Application Number:	School Name:	School District:
04-122029	Accessible Ramp Landing Stair PC	SKC Company
DSA File Number:	Increment Number:	Date Created:
PC-116		2023-02-20 13:43:59

THE SAMPLE DSA 103 FORMS SHOWN ON THIS SHEET ARE FOR ILLUSTRATION PURPOSES ONLY. A SEPARATE DSA 103 FORM IS TO BE COMPLETED FOR EACH PROJECT SPECIFIC APPLICATION THAT THIS PC IS BEING INCORPORATED INTO. THE DSA 103 FORM IS TO BE COMPLETED BY THE ARCHITECT OF RECORD FOR THE OVERALL SCOPE OF WORK ON THE PROJECT SPECIFIC APPLICATION. MODULAR BUILDING MANUFACTURER (OR DESIGN BUILD CONTRACTOR) IS ONLY RESPONSIBLE FOR COMPLETING DSA103 FORM ON STOCKPILE PROJECTS. THE SAMPLE DSA 103 FORM SHALL BE CROSSED OUT ON THIS DRAWING.

STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

SKC COMPANY
15345 FAIRFIELD RANCH RD - SUITE 160 CHINO HILLS, CA 91709
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER #MP 1279666 DEALER # DL 1279666
GC LIC # 992118 SBE CERTIFIED

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DISTRICT/CUSTOMER NAME:

SCHOOL/SITE NAME:

SHEET TITLE:

DSA 103
TEST & SPECIAL INSPECTIONS
SAMPLE

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

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122029 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/27/2023

PROFESSIONAL OF RECORD ON PC

ORION
Structural Engineering, Inc.
11305 RANCHO BERNARDO RD
SUITE 121
SAN DIEGO, CA. 92127
PHONE: (858) 679-1974

FIRM: ORION STRUCTURAL ENGINEERING, INC.
ADDRESS: 11305 RANCHO BERNARDO ROAD, SUITE 121
CITY: SAN DIEGO, CA 92127
PHONE: (858) 679-1974

PROJECT SPECIFIC PROFESSIONAL OF RECORD

LODI UNIFIED SCHOOL DISTRICT
MILLSWOOD MIDDLE SCHOOL
PORTABLE RELOCATION
DSA APP# 02-121945
FILE No.: 39-50
PTN: 68585-261

FIRM:
ADDRESS:
CITY:
PHONE:

REVISIONS

1 -
2 -
3 -
4 -
5 -

PROJECT NO.:	00-0000
DRAFTER:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

R-2

9/26/2023 9:27:48 AM

GENERAL NOTES

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL COMPLY WITH THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE, CCR TITLE 24, PART 2 (CBC) AND CCR TITLE 24, PART 1, CHAPTER 4, GROUP 1, LATEST REVISIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING CONSTRUCTION AND SHALL PROVIDE ADEQUATE SHORING AND BRACING DURING CONSTRUCTION. CONTRACTOR SHALL COMPLY WITH APPLICABLE SAFETY REGULATIONS
3. DETAILS NOT SPECIFICALLY SHOWN SHALL BE CALLED TO THE ATTENTION OF THE MANUFACTURER OR DESIGN PROFESSIONAL AND DSA.
4. THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES AND SHALL CHECK ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE OWNER AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
5. NO STRUCTURAL MEMBERS SHALL BE CUT, NOTCHED OR OTHERWISE PENETRATED UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER IN ADVANCE OR SHOWN ON THESE DRAWINGS
6. TYPICAL DETAILS SHALL APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
7. WHERE THESE GENERAL NOTES AND TYPICAL DETAILS ARE IN CONFLICT WITH THE CUSTOMER SPECIFICATIONS, THESE GENERAL NOTES AND TYPICAL DETAILS SHALL GOVERN.
8. NOT USED
9. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND OTHER INFORMATION NOT SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS
10. ALL ELEVATIONS ARE REFERENCED FROM TOP OF FINISHED FIRST FLOOR ELEVATION = 0'-0"
11. NOT USED
12. NOT USED
13. DIMENSIONS AND ELEVATIONS SHOWN ARE APPROXIMATE AND ARE PROVIDED AS AN AID IN INTERPRETING THE DRAWINGS ONLY. DIMENSIONS AND ELEVATIONS MUST BE VERIFIED WITH ARCHITECTURAL DRAWINGS. IN THE EVENT OF CONFLICT, DIMENSIONS AND ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS SHALL GOVERN. DRAWING SCALES GIVEN ARE APPROXIMATE - DO NOT SCALE PLANS OR DETAILS
14. NOT USED

WOOD:

1. STRUCTURAL FRAMING SHALL BE HEM FIR GRADED IN ACCORDANCE WITH THE STANDARD GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION OR STANDARD GRADING RULES #17 OF THE WEST COAST LUMBER INSPECTION BUREAU, LATEST EDITIONS. GRADES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS. (HEM FIR NORTH IS NOT ALLOWED.) EACH PIECE SHALL BE GRADE MARKED AND NO PIECE MAY FALL BELOW GRADES INDICATED.
   ALL FRAMING EXCEPT AS NOTED HEM FIR #2
2. PLYWOOD SHALL BE AS SHOWN ON THESE DRAWINGS WITH EXTERIOR GLUE IN ACCORDANCE WITH U.S. PRODUCT STANDARD PS 1-19. ALL PANELS SHALL BE MARKED WITH AN APA GRADE MARK WITH AN IDENTIFICATION INDEX AS SHOWN ON DRAWINGS.
3. 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 LAG SCREWS NEED NOT HAVE PRE-DRILLED HOLES IF IT CAN BE SHOWN THAT THE WOOD MEMBERS ARE NOT DAMAGED DURING INSTALLATION. PROVIDE FULL BODY DIAMETER LAG SCREWS WITH BENDING YIELD STRENGTHS PER THE 2018 NDS.
4. PROVIDE MALLEABLE IRON WASHERS OR EQUIVALENT CUT PLATE WASHERS (NOT LESS THAN A STANDARD CUT WASHER) UNDER NUTS AND BOLT OR LAG SCREW HEADS WHICH BEAR ON WOOD.
5. WOOD SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.6.1 AND THE REQUIREMENTS OF THE 2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS). GALVANIZED OR OTHER CORROSION RESISTANT COATING WHERE EXPOSED TO WEATHER OR USED IN FOUNDATIONS. SCREWS SHALL BE STEEL WITH CUT THREADS AND BENDING YIELD STRENGTHS NDS.
6. WOOD MEMBERS SHALL BE CUT OR NOTCHED ONLY AS SHOWN ON STRUCTURAL DRAWINGS.
7. WHEN REQUIRED NAILING TENDS TO SPLIT WOOD MEMBERS, NAIL HOLES SHALL BE PRE-BORED TO 3/4 OF THE NAIL DIAMETER.
8. STRUCTURAL NAILING SHALL BE WITH FULL HEAD COMMON NAILS PER ALL REQUIREMENTS OF THE 2018 NDS. NAILING NOT SPECIFICALLY INDICATED SHALL COMPLY WITH CCR TITLE 24, PART 2, TABLE 2304.10.2. ALL NAILS SHALL BE GALVANIZED OR OTHER 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 THE 2018 NDS. (SEE NAIL EQUIVALENCE BELOW.)
9. NAIL EQUIVALENCE: (PROVIDE MINIMUM NAIL LENGTHS AS REQUIRED FOR SPECIFIED PENETRATION, TYP UNO) 6d EQUALS .113"Ø - PROVIDE 1.36" MIN POINT PENETRATION 8d EQUALS .131"Ø - PROVIDE *1.57" MIN POINT PENETRATION 10d EQUALS .148"Ø - PROVIDE *1.78" MIN POINT PENETRATION 16d EQUALS .162"Ø - PROVIDE *1.94" MIN POINT PENETRATION * 1 1/2" AT 2x MEMBERS
10. EXCEPT WHERE MORE STRINGENT CONSTRUCTION IS SHOWN ON THE DRAWINGS, WOOD CONSTRUCTION SHALL COMPLY WITH TITLE 24, PART 2, SECTION 2308, CONVENTIONAL LIGHT-FRAME CONSTRUCTION PROVISIONS, AS A MINIMUM
11. PRESSURE PRESERVATIVE TREATMENT SHALL BE PER SECTION 2303.1.9, CCR TITLE 24, PART 2. PROVIDE QUALITY MARK ON ALL TREATED FOUNDATION MEMBERS FROM AGENCY LISTED BY AN ACCREDITATION BODY THAT COMPLIES WITH THE REQUIREMENTS OF THE AMERICAN LUMBER STANDARDS TREATED WOOD PROGRAM. ALL FOUNDATION MEMBERS SHALL BE IDENTIFIED PER SECTION 2303.1.9.1. TREAT ALL CUT ENDS OF PRESSURE TREATED MEMBERS WITH AN APPROVED PRESERVATIVE. (WILLARD W/B COPPER GREEN 2% OR AN APPROVED EQUIVALENT).
12. MACHINE NAILING IS SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER OR ARCHITECT AND THE DIVISION OF THE STATE ARCHITECT.
13. POWDER DRIVEN FASTENERS SHALL BE BY HILTI, INC, HILTI FASTENING SYSTEMS - OR EQUAL. INSTALL IN ACCORDANCE WITH DRAWINGS AND THE MANUFACTURER'S RECOMMENDATIONS AND ICC APPROVALS
14. FASTENERS FOR PRESSURE-PRESERVATIVE TREATED WOOD SHALL COMPLY WITH SECTION 2304.10.6 OF CBC
15. NAILS AND SPIKES USED IN WET OR EXTERIOR LOCATIONS SHALL COMPLY WITH SECTION 2304.10.2.1 OF CBC

STRUCTURAL STEEL:

1. NOT USED
2. NOT USED
3. NOT USED
4. ALL WELDING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE (CBC) AND THE STRUCTURAL WELDING CODE - STEEL, AWS D1.1, 2015 EDITION OF THE AMERICAN WELDING SOCIETY. WELDING DONE BY SHIELDING ELECTRIC-ARC OR FLUX-CORED PROCESS COMPLYING WITH AWS.
5. FABRICATION AND ERECTION OF STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2016 EDITION OF THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) (CBC CHAPTER 22A). ALSO COMPLY WITH REQUIREMENTS OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES. TEMPORARY BRACING IS REQUIRED AS NEEDED UNTIL ALL ELEMENTS SHOWN ON STRUCTURAL DRAWINGS ARE IN PLACE.
6. PRIME ALL STEEL SURFACES WITH AN APPROVED PRIMER, EXCEPT SURFACES TO BE EMBEDDED IN CONCRETE AND SURFACES TO RECEIVE FIELD WELDS. TOUCH-UP FIELD WELDS AND OTHER EXPOSED STEEL SURFACES AFTER ERECTION. ALTERNATE: PROVIDE GALVANIZED PER ASTM A-123.
7. N/A
8. QUALIFIED AND CERTIFIED WELDERS SHALL BE USED FOR ALL WELDING. ALL WELDING TO CONFORM TO THE 2015 EDITION OF THE AMERICAN WELDING SOCIETY STRUCTURAL WEDLING CODE AWS D1.1
9. MATERIALS:

ANGLES, MISC STEEL	ASTM A36
PLATES	ASTM A-572 GRADE 50
WELDING ELECTRODES	AWS STRUCTURAL STEEL E70XX,
TYPICAL STEEL CONNECTION BOLTS	ASTM A307 GRADE A
RUSH-INHIBITING PRIMER	TT-P-645
RECTANGULAR HSS MEMBERS	ASTM A-500 GRADE B (Fy = 46 KSI)

10. CONNECTED MEMBERS SHALL BEAR ONLY UPON UNTHREADED PORTIONS OF BOLTS
11. BURNING OF HOLES IS NOT ALLOWED
12. NOT USED
13. THE STRUCTURAL STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION
14. BOLT HOLES SHALL BE 1/16" LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLTS USED, UNO

ACCEPTABLE FASTENERS:

SELF-TAPPING SCREWS	SECT 3.2.12 ASTM C1513
SELF-DRILLING SCREWS	SECT 3.2.9 ASTM C1513
SELF-PIERCING SCREWS	SECT 3.2.9 ASTM C1513

REFERENCE ASTM C1513, STANDARD SPECIFICATION FOR TAPPING SCREWS FOR COLD-FORMED STEEL FRAMING CONNECTION

REFERENCE AISI S400-20 , NORTH AMERICAN STANDARD FOR SEISMIC DESIGN

FASTENERS MANUFACTURED WITH CARBON STEEL WIRE SHALL CONFORM TO ASTM A510

TESTING - THE OPERATOR, TOOL, AND FASTENER SHALL BE PRE-QUALIFIED BY THE PROJECT INSPECTOR. HE SHALL OBSERVE THE TESTING OF THE FIRST 10 FASTENER INSTALLATIONS. A TEST "PULL-OUT" LOAD OF NOT LESS THAN TWICE THE DESIGN LOAD SHALL BE APPLIED TO THE PIN IN SUCH A MANNER AS NOT TO RESIST THE SPALLING TENDENCY OF THE CONCRETE SURROUNDING THE PIN. THEREAFTER, RANDOM TEST UNDER THE PROJECT INSPECTOR'S SUPERVISION SHALL BE MADE OF APPROXIMATELY 1 IN 10 PINS. IF ANY PIN FAILS TESTING, TEST ALL PINS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE PASS, THEN RESUME THE INITIAL TESTING FREQUENCY.

COLD FORMED STRUCTURAL STEEL:

1. NOT USED
2. NOT USED
3. CORROSION PROTECT PER TABLE A4-1 BELOW
4. GALVANIZED COATINGS MUST MEET ASTM A-525 SPECIFICATIONS
5. CARBON SHEET STEEL MUST MEET THE MINIMUM REQUIREMENTS OF ASTM A-1011 SS GRADE 55 & 33 GRADE 55 KSI FOR 10, 12, 14, AND 16 GAUGE AND GRADE 33 KSI FOR 18 GAUGE AND LIGHT MEMBERS UON. CARBON SHEET STEEL PRODUCTS MUST BE THOROUGHLY COATED WITH A RUST INHIBITIVE PAINT.
6. ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (AISI) NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STRUCTURAL STEEL MEMBERS LATEST ADOPTED EDITION AISI S100-16 (2020) W/S2-20.
7. NOT USED
8. NOT USED
9. FASTENINGS OF COMPONENTS SHALL BE WITH SELF-DRILLINGS SCREWS OR WELDING. SCREWS OR WELDS SHALL BE SUFFICIENT SIZE TO INSURE THE STRENGTH OF THE CONNECTION. ALL WELDS OF GALVANIZED STEEL SHALL BE TOUCHED UP WITH ZINC-RICH PAINT. ALL WELDS OF CARBON SHEET STEEL SHALL BE TOUCHED UP WITH PAINT
10. NOT USED
11. PROVIDE SHOP DRAWINGS INDICATING MEMBERS GAUGES, SHAPES, SIZES, SPACING, LOCATIONS AND CONNECTIONS
12. STUDS SHALL BE INSTALLED WITH THEIR BEARING ENDS POSITIONED FLUSH AGAINST THE INSIDE TRACK WEB.
13. NOT USED
14. NOT USED
15. N/A
16. NOT USED
17. ALL SHEET METAL SCREWS SHALL BE THREAD FORMING OR THREAD CUTTING, WITH OR WITHOUT A SELF-DRILLING POINT PER AISI
18. ALL WELDING OR MATERIAL LESS THAN 0.18 INCHES IN THICKNESS SHALL BE MADE IN ACCORDANCE WITH THE AWS D1.3 WELDERS AND WELDING PROCEDURES AND SHALL BE QUALIFIED AS SPECIFIED IN AWS D1.3
19. TOUCH UP COLD GALVANIZING USING ZRC CHEMICAL PRODUCTS CO.M, ZRC COLD GALVANIZING COMPOUND OR EQUAL
20. SPLICES IN STUDS SHALL NOT BE PERMITTED

CORROSION PROTECTION:

1. STRUCTURAL MEMBERS UTILIZED IN COLD-FORMED STEEL FRAMED CONSTRUCTION SHALL HAVE A PROTECTIVE COATING AS SPECIFIED IN TABLE A4-1

TABLE A4-1
COATING DESIGNATIONS

COATING CLASSIFICATION	COATING DESIGNATOR	MINIMUM COATING REQUIREMENTS			
		ZINC COATED[A] OZ/FT^2 (G/M^2)	ZINC IRON[B] OZ/FT^2 (G/M^2)	55% AL-ZINC[C] OZ/FT^2 (G/M^2)	ZINCE-5%[D] OZ/FT^2 (G/M^2)
METALLIC COATED	CP 60	G60 [Z180]	A60 [F180]	AZ50 [AZM1850]	CF30 [ZGF90]
	CP 90	G90 [Z275]	NOT APPLICABLE	AZ50 [AZM1850]	CF45 [ZGF135]
PAINTED METALLIC	PM	THE METALLIC COATED SUBSTRATE SHALL MEET THE REQUIREMENTS OF METALLIC COATED. IN ADDITION, THE PAINT FILM SHALL HAVE A MINIMUM THICKNESS OF 0.5 MIL PER SIDE (PRIMER PLUS TOPCOAT) WITH A MINIMUM PRIMER THICKNESS OF 0.1 MIL PER SIDE			

A ZINC-COATED STEEL SHEET AS DESCRIBED IN ASTM A653/A653M
B ZINC-IRON ALLOY-COATED STEEL SHEET AS DESCRIBED IN ASTM A653/A653M
C 55% ALUMINUM-ZINCE ALLOY COATED STEEL SHEET AS DESCRIBED IN ASTM A792/A792M
D ZINCE-5% ALUMINUM ALLOY-COAED STEEL SHEET AS DESCRIBED IN ASTM A875/A875M
E IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A1003/A1003M

2. ADDITIONAL CORROSION PROTECTION SHALL NOT BE REQUIRED ON EDGES OF METALLIC-COATED STEEL FRAMING MEMBERS, SHOP OR FIELD CUT, PUNCHED OR DRILLED
3. UNLESS ADDITIONAL CORROSION PROTECTION IS PROVIDED, FRAMING MEMBERS SHALL BE LOCATED WITHIN THE BUILDING ENVELOPE AND SHIELDED FROM DIRECT CONTACT WITH MOISTURE FROM THE GROUND OR THE OUTDOOR CLIMATE

ACCESS NOTES

1. RAMPS HAVING SLOPES STEEPER THAN 1 VERTICAL TO 20 HORIZONTAL SHALL HAVE LANDINGS AT TOP AND BOTTOM AND AT LEAST ONE INTERMEDIATE LANDING SHALL BE PROVIDED FOR EACH 30" RISE OF RISE PER CBC 11B-405.7
2. LOCATION OF LANDINGS - LANDINGS SHALL BE PROVIDED AT THE TOP AND BOTTOM OF EACH RAMP. INTERMEDIATE LANDINGS SHALL BE PROVIDED A INTERVALS NOT EXCEEDING 30" OF VERTICAL RISE AND AT EACH CHANGE OF DIRECTION. LANDINGS ARE NOT CONSIDERED IN DETERMINING THE MAXIMUM HORIZONTAL DISTANCE OF EACH RAMP

   EXAMPLES OF RAMP DIMENSIONS:

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

   SIZE OF LANDINGS SHALL NOT BE LESS THAN 60" WIDE AND SHALL HAVE A LENGTH OF NOT LESS THAN 60" IN THE DIRECTION OF THE RAMP RUN PER CBC 11B-405.7.2 & 11B-405.7.3. AT THE BOTTOM LANDING OR LANDING AT CHANGE OF RAMP DIRECTION, THE LANDING SHALL SLOPE 1:48 MAX AND EXTEND MIN 72" IN THE DIRECTION OF THE RAMP

3. DOORS IN ANY POSITION SHALL NOT BE REDUCE THE MINIMUM DIMENSIONS OF THE LANDING TO LESS THAN 42" AND SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN 3" WHEN FULLY OPENED PER CBC 11B-405.7.5
4. RAMPS SHALL BE CONSTRUCTED AS REQUIRED. ALL REQUIREMENTS SHALL CONFORM TO CBC 11B-405
5. THE SURFACE OF RAMPS, LANDING & STAIRS SHALL BE ROUGHED OR SHALL BE OF SLIP-RESISTANT MATERIAL WITH A COEFFICIENT OF FRICTION OF 0.6 FOR LANDINGS AND 0.8 FOR RAMP AND STAIRS
6. RAMPS AND STAIRWAY USED AS THE EXIT REQUIRED WIDTH SHALL CONFORM TO CBC SECTION 1009, 1010, CHAPTER 11B & 11B-405.5
7. HANDRAILS SHALL CONFORM TO CBC SECTION 11B-405.8 (RAMPS) AND 11B-504.6 (STAIRS)
8. STRIKE EDGE EXTENSION THE WIDTH OF THE LANDING SHALL EXTEND 24" PAST THE STRIKE EDGE OF ANY DOOR OR GATE FOR EXTERIOR RAMPS AND 18" PAST THE STRIKE EDGE FOR INTERIOR RAMPS. FOR DOOR SWINGING INTO LANDING, 42" MIN IS REQUIRED PER 11B-405.7.5
9. CHANGE IN DIRECTION - RAMPS THAT CHANGE DIRECTION BETWEEN RUNS AT LANDING SHALL HAVE A CLEAR LANDING 60" MINIMUM BY 72" MINIMUM IN THE DOWNWARD DIRECTION OF TRAVEL PER CBC 11B-405.7.4 AND 72" MIN REQUIRED AT THE BOTTOM LANDING
10. THE WIDTH OF RAMPS SHALL HAVE A MINIMUM WIDTH OF 48" OR AS WIDE AS REQUIRED EXIT WIDTH IF LARGER REQUIRED PER STAIRWAY AND EXITS PER CBC 11B-405.5
11. LANDINGS AND RAMPS SHALL BE SLOPED AT 1:48 MAX TO PREVENT THE ACCUMULATION OF WATER ON WALKING SURFACES PER CBC 11B-405.10. SEE CBC 11B-504.7 FOR STAIRS
12. SITE CONDITION: DUE TO VARIES SITE CONDITIONS, THE MAXIMUM HEIGHT OF FINISH FLOOR FROM GRADE IS 26". THEREFORE IT IS POSSIBLE THAT THE ACCESS RAMP ATTACHED TO THE COMMON LANDING COULD BE 26'-0". AT A SLOPE OF 1:12, THE ARCHITECT MUST TAKE INTO ACCOUNT THAT THE RAMP SUPPLIED BY SKC COMPANY IS 11'-0". AT A SLOPE OF 1:12 THE ARCHITECT WILL HAVE TO DESIGN AND PROVIDE SUFFICIENT DETAILS OF RAMP EXTENSIONS AND BOTTOM LANDING DEPENDING ON PARTICULAR SITE CONDITIONS ICS WILL NOT BE RESPONSIBLE FOR ANY RAMP EXTENSION EXCEEDING ORIGINAL PLAN AS SHOWN ON PLANS

STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

SKC COMPANY

15345 FAIRFIELD RANCH RD - SUITE 160 CHINO HILLS, CA 91709
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER #MF1279666 DEALER # DL1279666
GC LIC # 992118 SBE CERTIFIED

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DISTRICT/CUSTOMER NAME:

SCHOOL/SITE NAME:

SHEET TITLE:

CONSTRUCTION SPECIFICATIONS AND NOTES

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

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122029 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/27/2023

PROFESSIONAL OF RECORD ON PC

ORION
Structural Engineering, Inc.
11305 RANCHO BERNARDO RD
SUITE 121
SAN DIEGO CA. 92127
PHONE (858) 679-1974

REGISTERED PROFESSIONAL ENGINEER
RYAN J. OVER
No. S4437
EXP. 12/31/24
STRUCTURAL
STATE OF CALIFORNIA

FIRM: ORION STRUCTURAL ENGINEERING, INC.
ADDRESS: 11305 RANCHO BERNARDO ROAD, SUITE 121
CITY: SAN DIEGO, CA 92127
PHONE: (858) 679-1974

PROJECT SPECIFIC PROFESSIONAL OF RECORD

LODI UNIFIED SCHOOL DISTRICT
MILLSWOOD MIDDLE SCHOOL
PORTABLE RELOCATION
DSA APP# 02-121945
FILE No.: 39-50
PTN: 68585-261

FIRM:
ADDRESS:
CITY:
PHONE:

REVISIONS

1 -
2 -
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4 -
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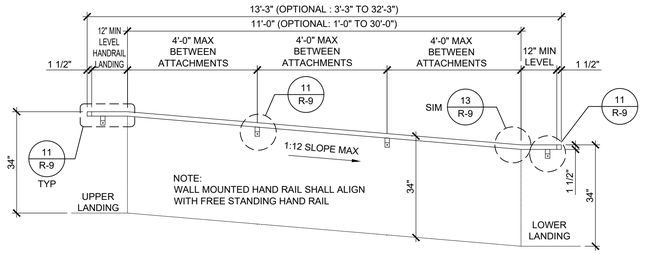
PROJECT NO.:	00-0000
DRAFTER:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

R-3

9/26/2023 9:28:02 AM



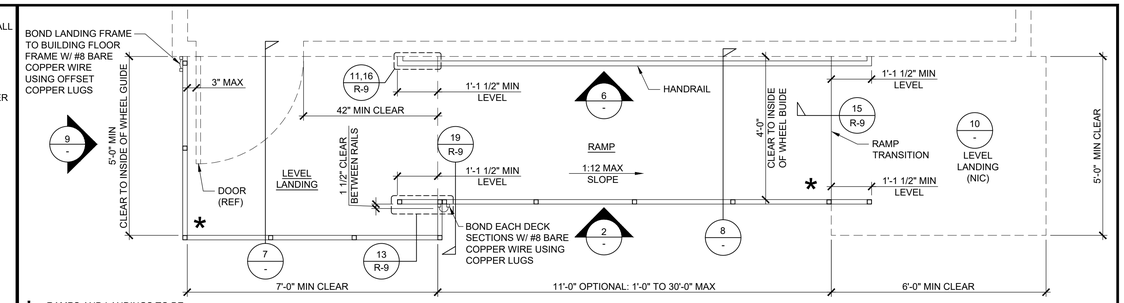
NOTE(*):
ALL HAND RAILS SURFACES SHALL BE SMOOTH WITH NO SHARP CORNER, PER CBC 11B-505.8 WALL TO BE SMOOTH AND TO EXTEND 18" ABOVE HANDRAIL.

ATTACHED TO BUILDING MEMBER BY OTHERS.

HANDRAIL ATTACHMENT TO BUILDING

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

6



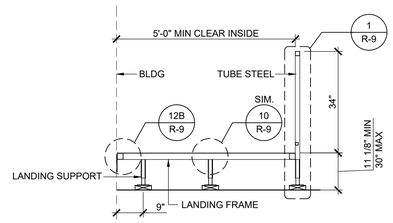
* RAMPS AND LANDINGS TO BE SLOPED SO AS NOT TO RETAIN STANDING WATER,1:48 (2.083%) MAX SLOPE

RAMP AND LANDING AT BUILDING

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

1

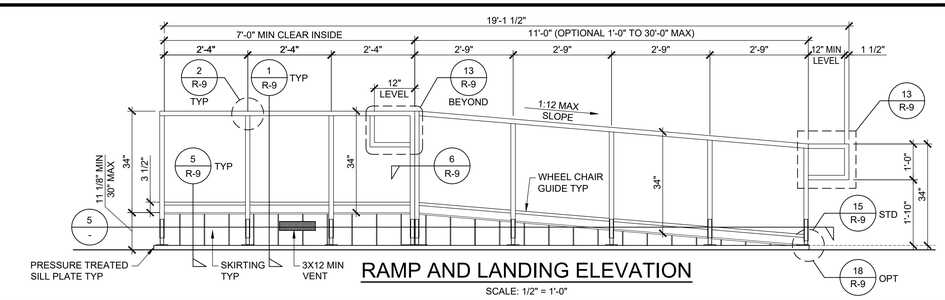
11



SECTION AT LANDING

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

7



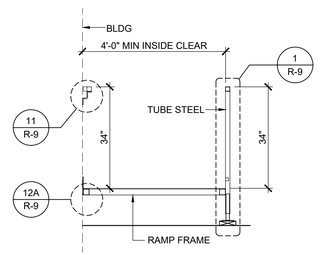
RAMP AND LANDING ELEVATION

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

2

12

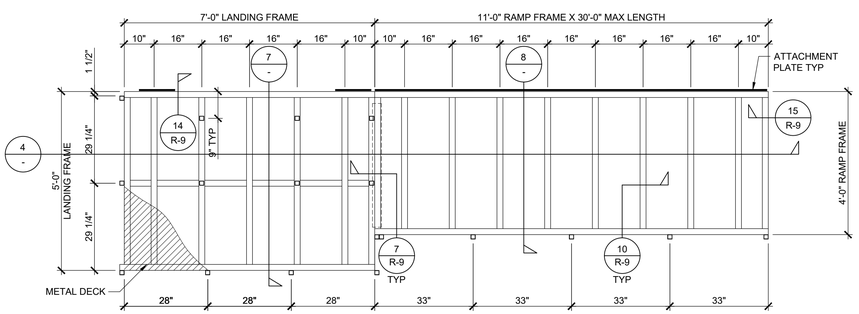
NOTE(*):
ALL HAND RAILS SURFACES SHALL BE SMOOTH WITH NO SHARP CORNER, PER CBC 11B-505.8 WALL TO BE SMOOTH AND TO EXTEND 8" ABOVE HANDRAIL



SECTION AT RAMP

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

8



NOTE:
PER CBC 1012.5.1 MINIMUM EGRESS WIDTH SHALL COMPLY WITH CBC 1020.3 (CORRIDORS)

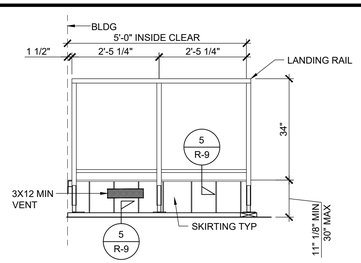
1020.3
THE MIN WIDTH OF CORRIDORS SPECIFIED IN TABLE 1020.3 SHALL BE DETERMINED BY SECTION 1005.3, PER OCCUPANT. HOWEVER FOR GROUP E IF THERE ARE 100 OR MORE OCCUPANTS REQ'D TO EXIT THE RAMP SHALL BE 72" MIN WIDTH. THIS WILL REQUIRE A NEW DESIGN.

RAMP AND LANDING FRAMING PLAN

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

3

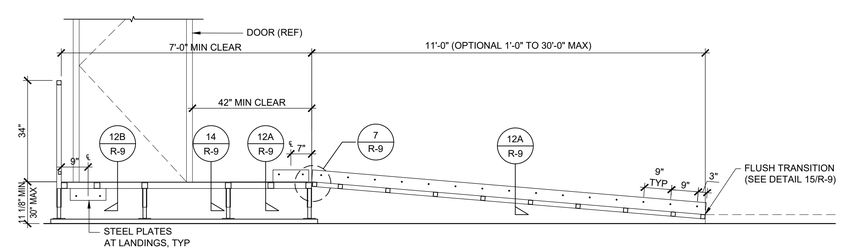
13



LANDING ELEVATION (REAR)

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

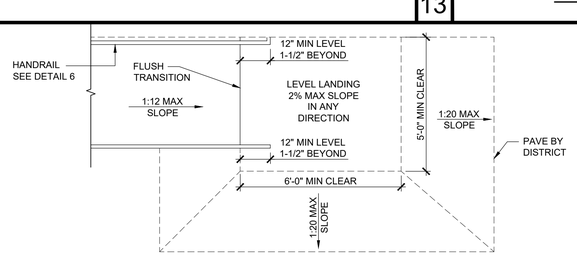
9



SECTION AT RAMP AND LANDING

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

4



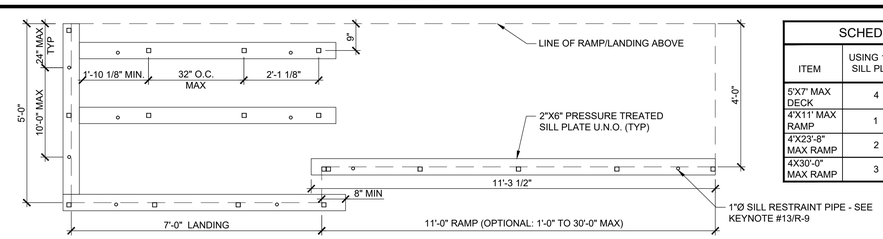
NOTE:
1. 1:20 TRANSITIONS OFF OF LOWER LANDING REQUIRES NO HANDRAILS.
2. TRANSITIONS EXCEEDING 1:20 BUT NOT TO EXCEED 1:12 REQUIRE REMOVAL OF 12" HANDRAIL EXTENSION AND ADDITIONAL HANDRAILING ALSO REQUIRES ADDITIONAL RAMP LENGTH BY DISTRICT. (THIS CONDITION REQUIRES A SITE SPECIFIC DETAIL PROVIDED BY ARCHITECT TO DEMONSTRATE ACCESSIBLE RAMP.)

* RAMPS AND LANDINGS TO BE SLOPED SO AS NOT TO RETAIN STANDING WATER,1:48 (2.083%) MAX SLOPE.

CLEAR LANDING SPACE

SCALE: 3/8" = 1'-0"

10



SCHEDULE		
ITEM	USING 12 FT SILL PLATE	MIN QTY OF PIPES
5'X7' MAX DECK	4	8
4'X11' MAX RAMP	1	2
4'X23'-8" MAX RAMP	2	4
4'X30'-0" MAX RAMP	3	6

SILL PLAN FOR RAMP AND LANDING

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

5

STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

SKC COMPANY
15345 FAIRFIELD RANCH RD - SUITE 160 CHINO HILLS, CA 91709
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER #MF1279666 DEALER # DL1279666
GC LIC # 992118 SBE CERTIFIED

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DISTRICT/CUSTOMER NAME:

SCHOOL/SITE NAME:

SHEET TITLE:

STANDARD RAMP & LANDING (ATTACHED HANDRAIL TO BUILDING)

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

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122029 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ SG ☐
DATE: 09/27/2023

PROFESSIONAL OF RECORD ON PC

ORION
STRUCTURAL ENGINEERING, INC.
11305 RANCHO BERNARDO RD
SUITE 121
SAN DIEGO CA, 92127
PHONE (858) 679-1974
REGISTERED PROFESSIONAL ENGINEER
RYAN J. ORR
No. 5427
EXP. 12/31/24
STRUCTURAL
STATE OF CALIFORNIA

FIRM: ORION STRUCTURAL ENGINEERING, INC.
ADDRESS: 11305 RANCHO BERNARDO ROAD, SUITE 121
CITY: SAN DIEGO, CA 92127
PHONE: (858) 679-1974

PROJECT SPECIFIC PROFESSIONAL OF RECORD

LODI UNIFIED SCHOOL DISTRICT
MILLSWOOD MIDDLE SCHOOL
PORTABLE RELOCATION
DSA APP# 02-121945
FILE No.: 39-50
PTN: 68585-261

FIRM:
ADDRESS:
CITY:
PHONE:

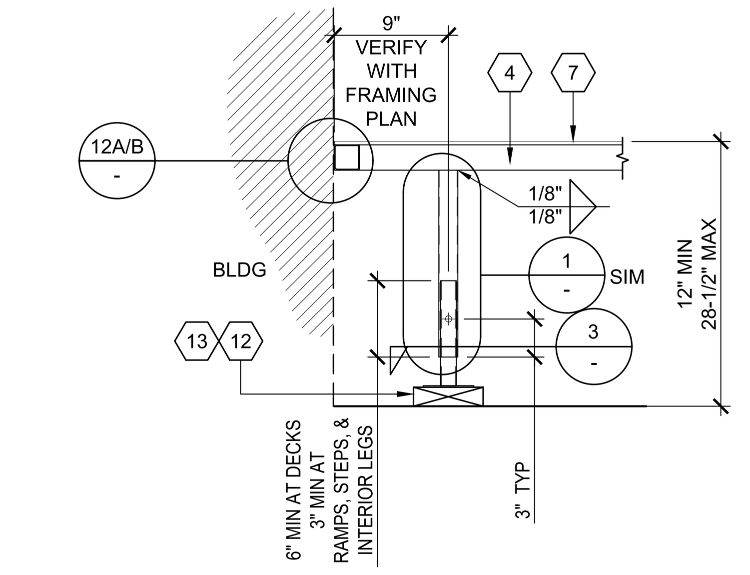
REVISIONS
1 -
2 -
3 -
4 -
5 -

PROJECT NO.:	00-0000
DRAFTER:	00
SCALE:	AS NOTED
DATE:	00-00-00

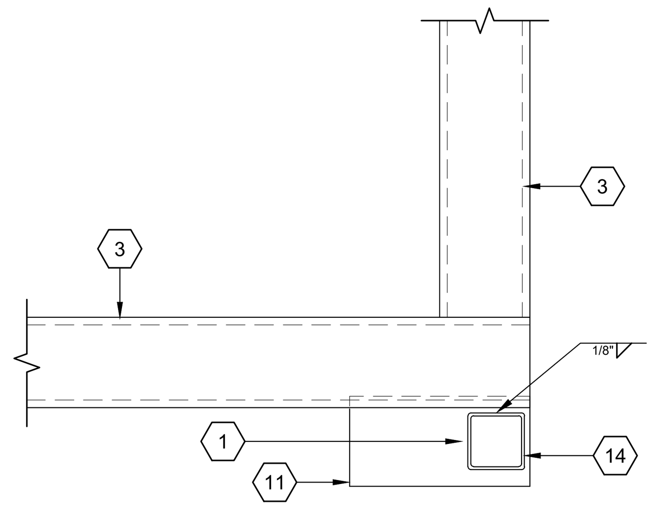
SHEET NUMBER

R-4

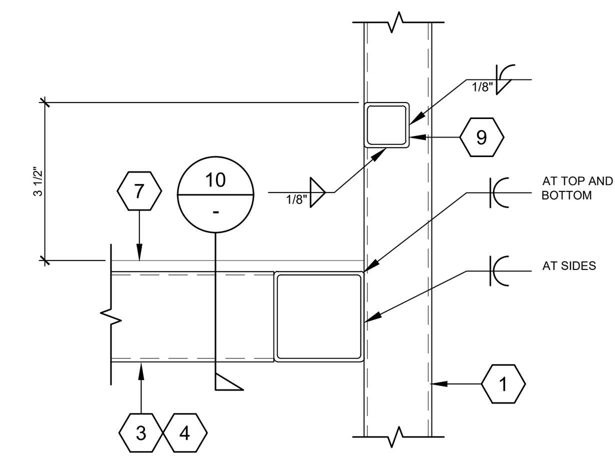
9/26/2023 9:28:19 AM



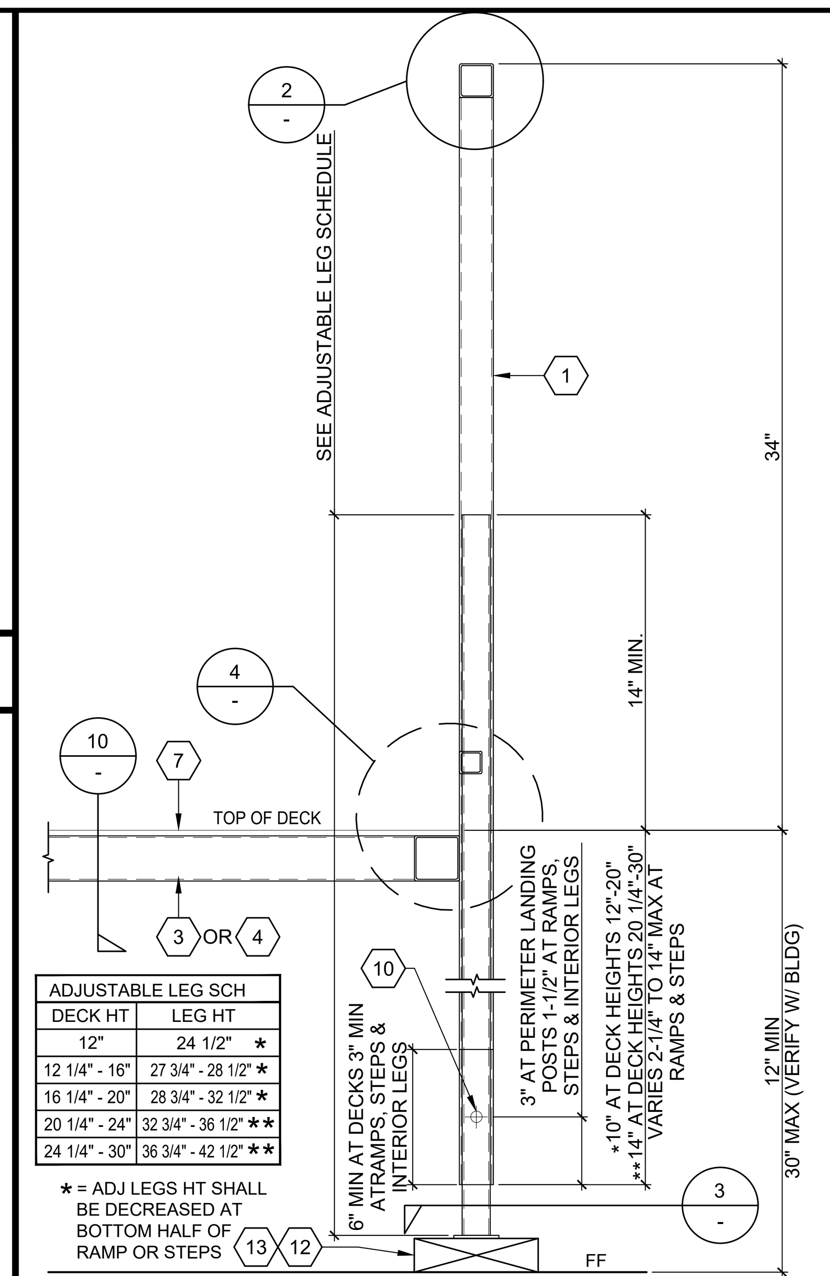
INTERIOR ADJUSTABLE SUPPORT LEGS 14
SCALE: 1" = 1'-0"



RAMP TOE (PLAN VIEW) 9
SCALE: 6" = 1'-0"



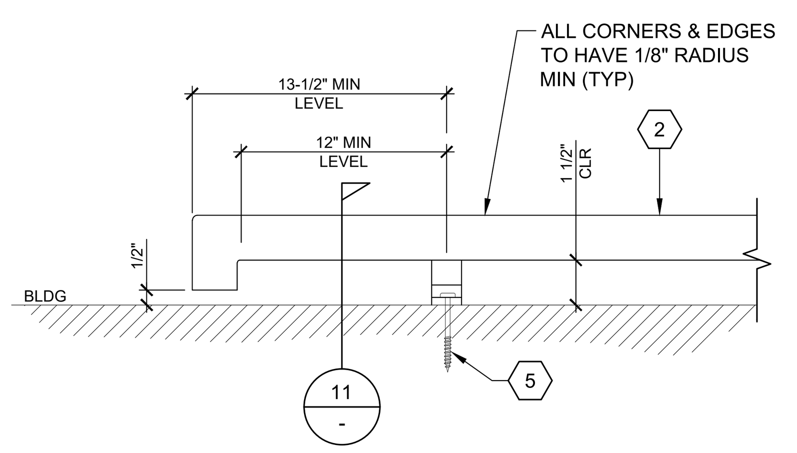
VERTICAL TUBE TO LANDING/RAMP 4
SCALE: 6" = 1'-0"



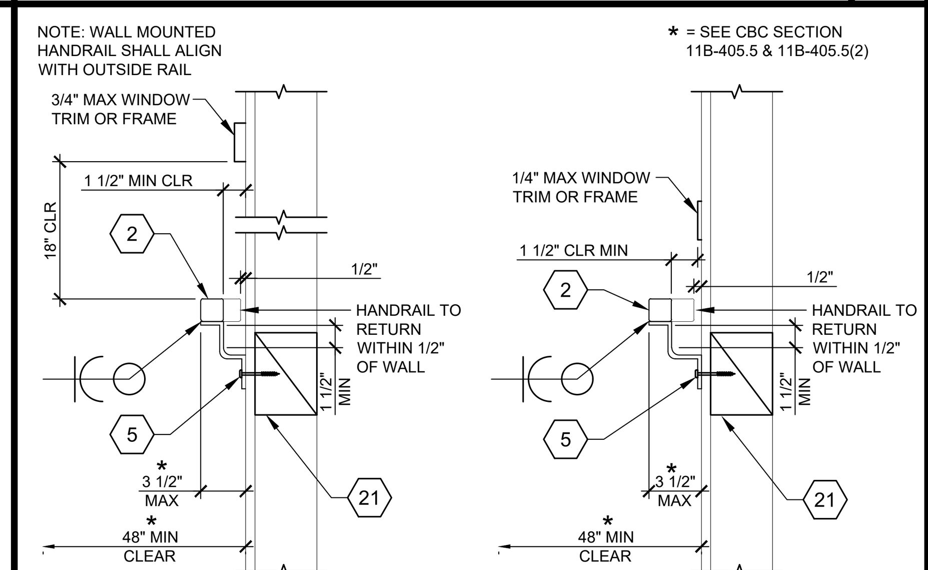
ADJUSTABLE LEG SCH	
DECK HT	LEG HT
12"	24 1/2" *
12 1/4" - 16"	27 3/4" - 28 1/2" *
16 1/4" - 20"	28 3/4" - 32 1/2" *
20 1/4" - 24"	32 3/4" - 36 1/2" **
24 1/4" - 30"	36 3/4" - 42 1/2" **

* = ADJ LEGS HT SHALL BE DECREASED AT BOTTOM HALF OF RAMP OR STEPS

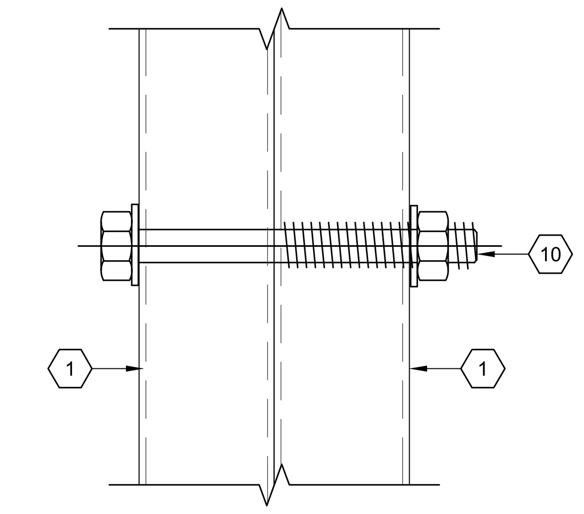
SECTION AT DECK & HANDRAIL 1
SCALE: 3" = 1'-0"



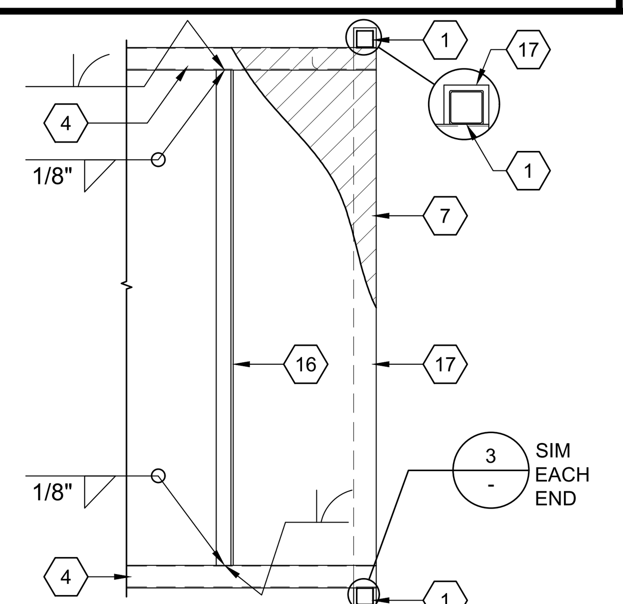
SECTION AT HANDRAIL 16
SCALE: 1-1/2" = 1'-0"



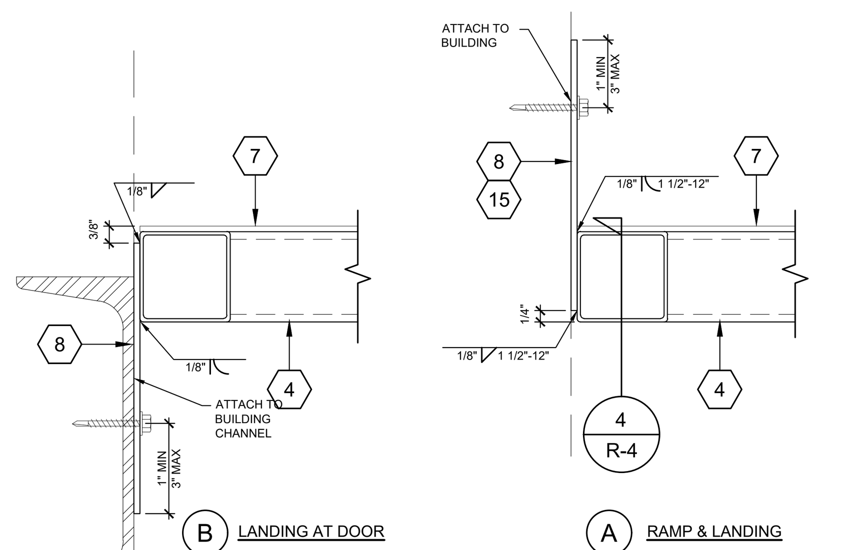
HANDRAIL CONNECTION 11
SCALE: 1-1/2" = 1'-0"



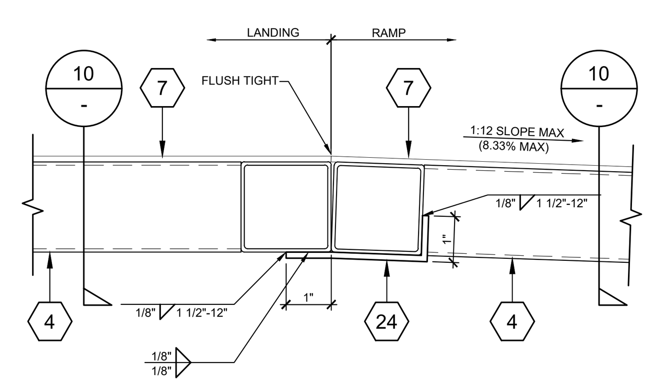
VERT TUBE TO VERT TUBE CONN 6
SCALE: 1-1/2" = 1'-0"



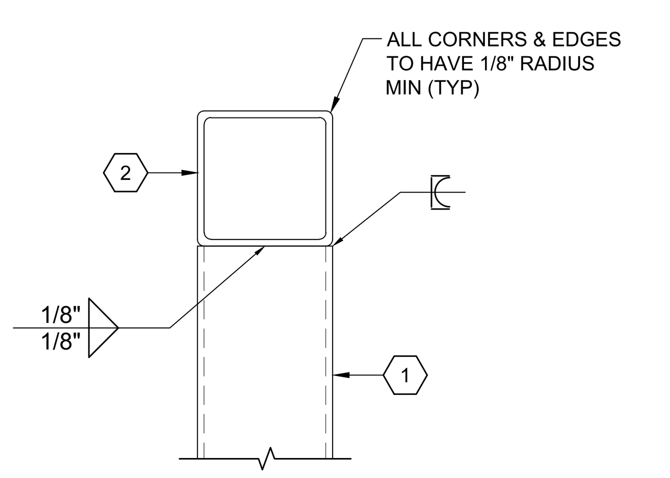
RAMP SECTION 17
SCALE: 3/4" = 1'-0"



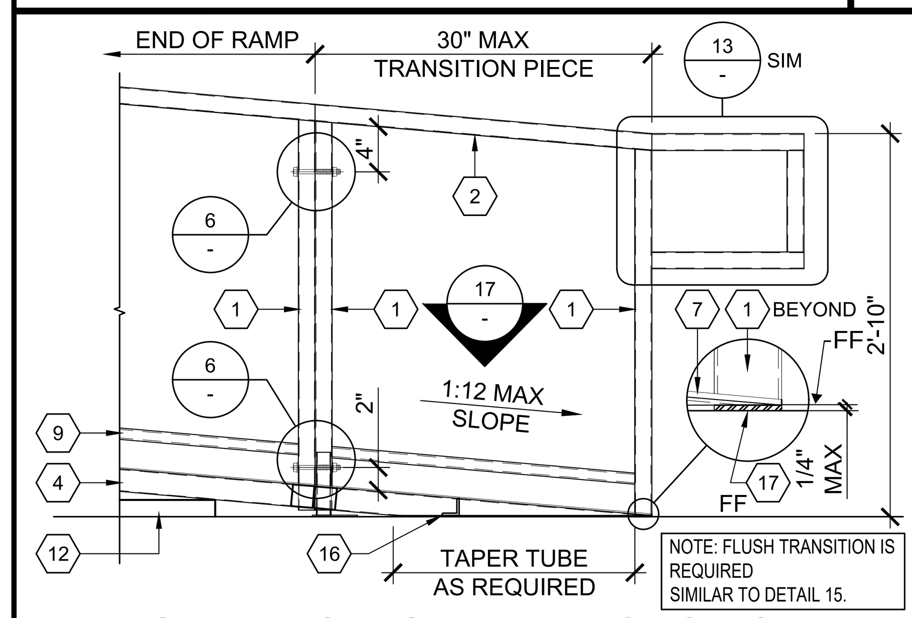
SECTION AT PLATE 12
SCALE: 6" = 1'-0"



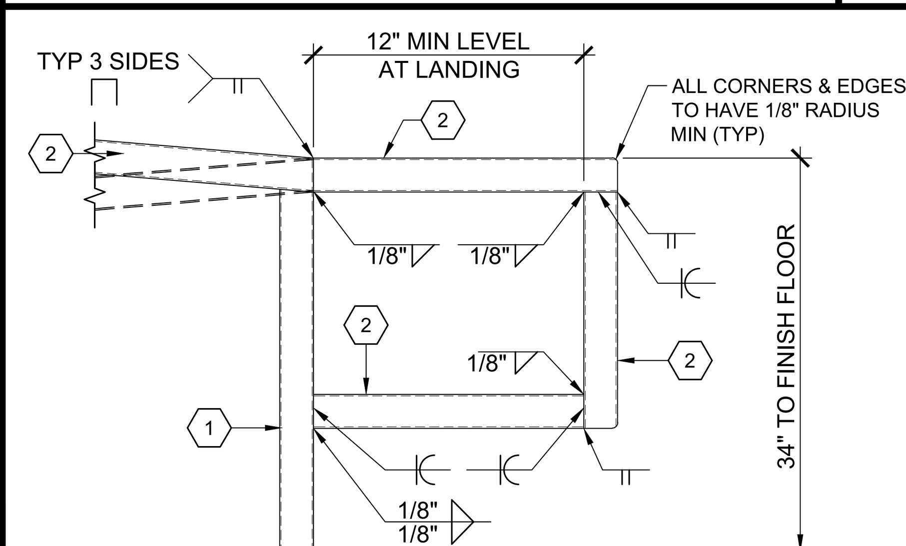
RAMP TO LANDING 7
SCALE: 6" = 1'-0"



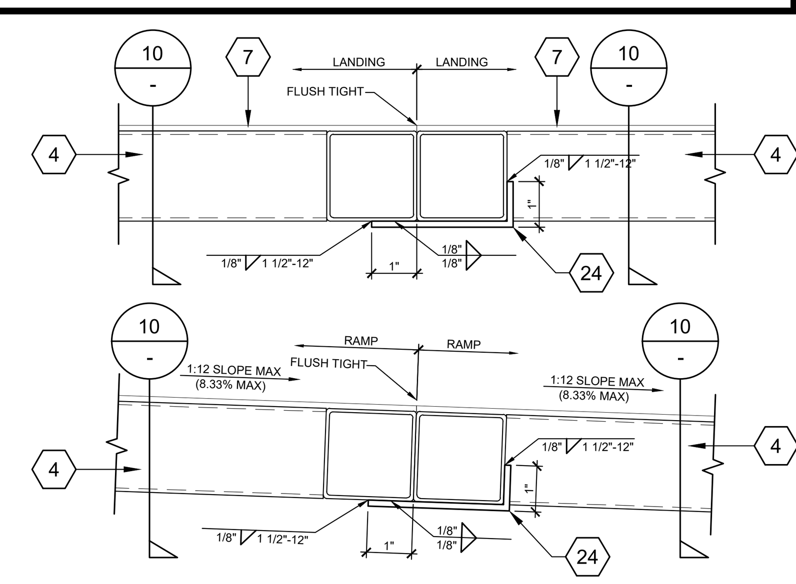
HANDRAIL 2
SCALE: 1'-0" = 1'-0"



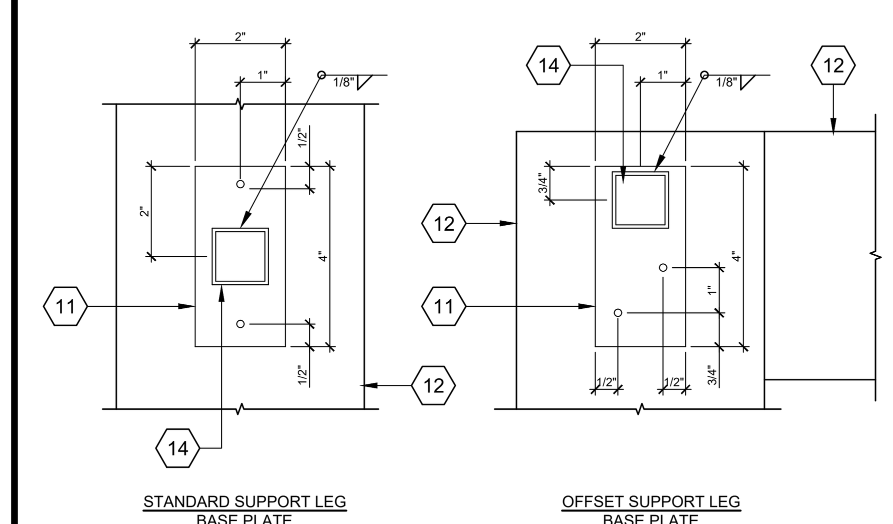
ZERO TRANSITION RAMP SECTION 18
SCALE: 3/4" = 1'-0"



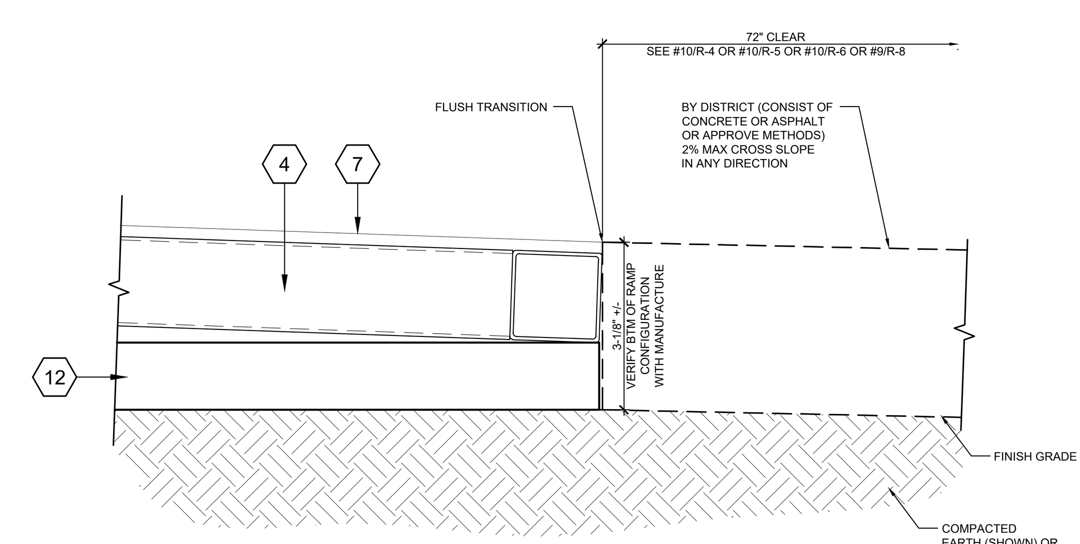
HANDRAIL EXTENSION 13
SCALE: 1-1/2" = 1'-0"



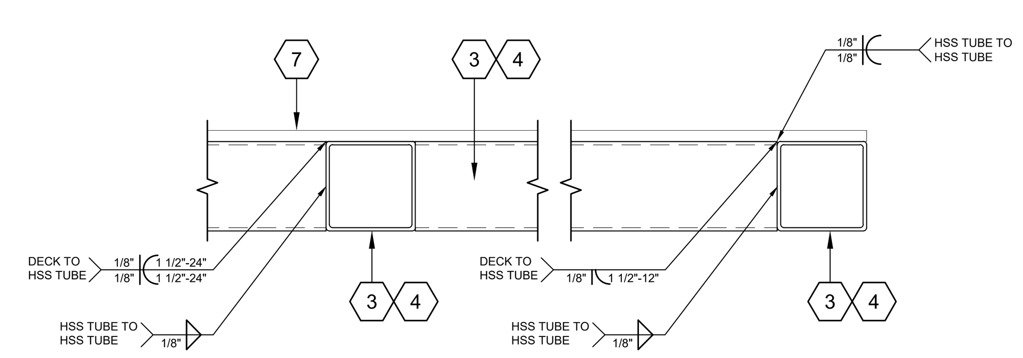
RAMP OR LANDING EXTENSION 8
SCALE: 6" = 1'-0"



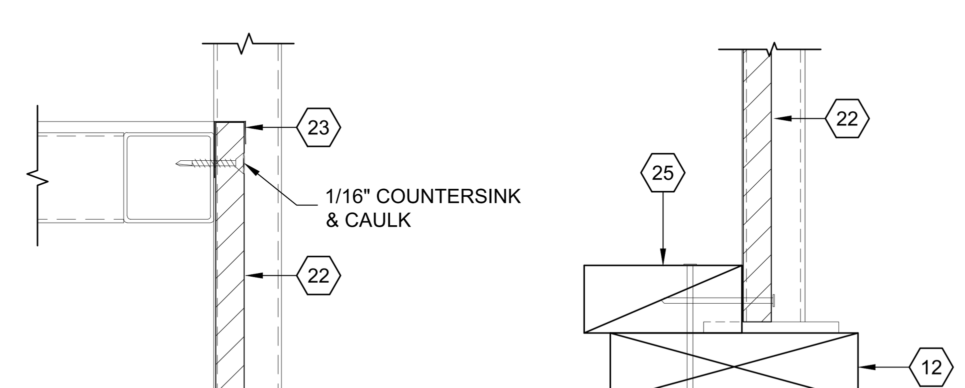
BASE PLATE PLAN VIEW 3
SCALE: 6" = 1'-0"



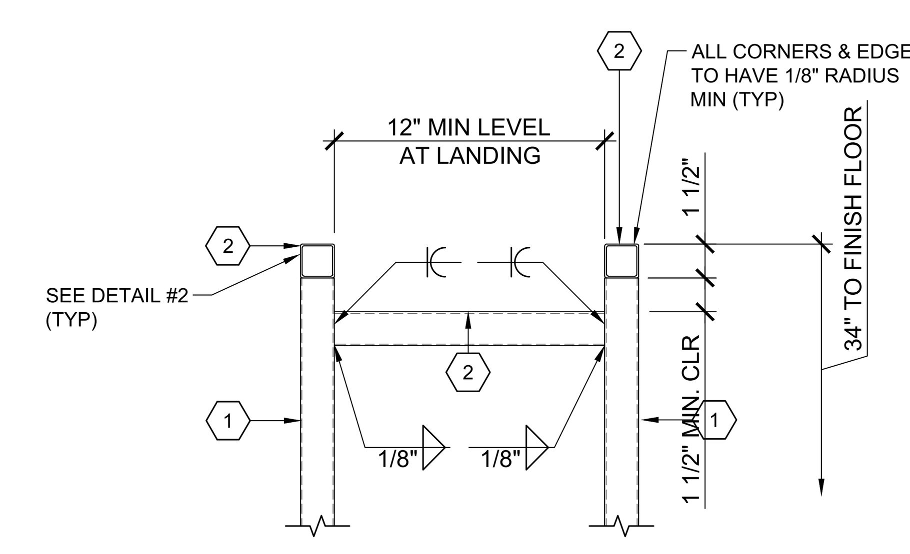
FINISH GRADE TRANSITION 15
SCALE: 6" = 1'-0"



DECK TO FRAME 10
SCALE: 6" = 1'-0"



SKIRTING INSTALLATION 5
SCALE: 6" = 1'-0"



RAMP AND DECK HANDRAIL 19
SCALE: 1-1/2" = 1'-0"

KEY NOTES

1. VERTICAL RAIL POST TUBE: 1 1/2" X 1 1/2" X 14 GA MIN (T = 0.075") SQUARE TUBE.
2. HANDRAIL TUBE: 1 1/2" X 1 1/2" X 16 GA MIN (T =0.060") SQUARE TUBE
3. STAIR TREAD AND RISER TUBE: 2" X 2" X 14 GA MIN (T = 0.075") SQUARE TUBE
4. LANDING JOIST & PERIMETER TUBE: 2" X 2" X 14 GA MIN (T = 0.075") SQUARE TUBE
5. 10 GA. HANDRAIL MOUNTING BRACKET: 1/4" X 3" LAG SCREW AT WOOD STUD BUILDING OR #14 X 2" TEK SCREW AT METAL STUD BUILDING
6. NOT USED
7. 12 GA METAL DECK (0.105"): NON-SLIP SURFACE MAINTAINABLE FOR 1 YEAR. SEE ACCESS NOTES #5 AND DETAIL #4 ON SHEET R-9.
8. 6" X 12" X 0.135" STEEL PLATE AT LANDINGS. TO SECURE PLATE TO STRUCTURAL FLOOR FRAME, USE (2) #14 X 1-1/2" TEK SCREWS. TO SECURE PLATE TO BUILDING, USE (2) #14 X 2" TEK SCREWS FOR METAL STUD BUILDING OR (2) 1/4" X 3" LAG SCREWS FOR WOOD STUD BUILDING
9. WHEELCHAIR GUIDE RAILS: 1" X 1" X 14 GA MIN (t = 0.075") SQUARE TUBE
10. 3/8"Ø ZINC MACHINE BOLT WITH NUT
11. 2" X 4" 0.135" THICK BASE PLATE. DRILL (2) 5/16" HOLES FOR (2) 1/4"Ø X 1-1/2" GALV LAG SCREWS
12. 2 X HF #2 MIN PRESSURE TREATED SILL PLATE
13. 1"Ø X 14" STANDARD WEIGHT HOT DIPPED GALVANIZED PIPE AT 10'-0" OC MAX, 2'-0"MAX FROM EACH CORNER IN BOTH DIRECTIONS AND A MINIMUM OF TWO PIPES PERDISCONTINUE FOUNDATION STRIP PER DSA IR 16-1 SECTION 3.2.3.5 DRILL SILL PLATE 1 1/2"Ø MAX HOLE PIPE SHOULD PENETRATE INTO SOIL AND/OR PAVING A MIN OF 12" MEASURED VERTICALLY PIPES SHALL BE INSTALLED ON A CONTINUOUS PLATE.
14. ADJUSTABLE LEGS: 1-1/4" X 1-1/4" X 0.105" SQUARE TUBE WELDED TO BASE PLATE
15. 6" X LENGTH OF RAMP X 0.135" CONT PLATE. TO SECURE PLATE TO BUILDING, USE 1/4" X 3" LAG SCREWS. TO SECURE PLATE TO STRUCTURAL FLOOR FRAME, USE #14 X 2" TEK SCREWS. TO SECURE PLATE TO WOOD FOUNDATION, USE 1/4" X 3" LAG SCREWS. ALL FASTENER SPACING SHALL BE AT 9" OC MAX
16. L-1 1/2" X 1-1/2" X 3/16" X WIDTH OF RAMP
17. 2" X 1/8" CONTINUOUS PLATE
18. NOT USED
19. NOT USED
20. NOT USED
21. THIS BLOCKING IS PART OF THE BUILDING. WOOD BLOCKING 4X BLOCKING X STUD DEPTH W/ A34 t&b EA. END, FOR METAL STUD 16GA "C" FLAT BLOCKING W/ (3)-#10SMS TO EA. STUD.
22. 1/2" MINIMUM PLYWOOD SKIRTING OR 5/8" SIDING. FINISH TO MATCH SIDING. ATTACH SIDING TO TUBE STEEL WITH #14 X 1-1/2" FH SCREWS AT 6" OC AND TO 2X NAILER WITH 8D HOT-DIPPED GALVANIZED NAILS AT 6" OC
23. 26 GA MIN "J" FLASHING
24. 3" X 1" X 3'-0" X 10 GA BENT PLATE (0.135")
25. 2X NAILED TO SILL PLATE WITH 16D HOT-DIPPED GALVANIZED NAILS AT 16" OC MAX. ALT: #10 X 3" MIN EXTERIOR WOOD SCREWS

STATE AGENCY APPROVAL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121945 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 12/12/2023

SKC COMPANY

15345 FAIRFIELD RANCH RD - SUITE 160 CHINO HILLS, CA 91709
OFFICE: (909) 740-3120, FAX: (909) 726-9470
WEBSITE: WWW.SKCCOMPANY.COM
MANUFACTURER #MF1279666 GC LIC # 992118
DEALER # DL1279666 SBE CERTIFIED

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DISTRICT/CUSTOMER NAME:

SCHOOL/SITE NAME:

SHEET TITLE:

RAMP & LANDING DETAILS

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

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122029 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/27/2023

PROFESSIONAL OF RECORD ON PC

ORION Structural Engineering, Inc.
11305 RANCHO BERNARDO RD SUITE 121
SAN DIEGO CA. 92127
PHONE (858) 679-1974

REGISTERED PROFESSIONAL ENGINEER RYAN J. OMER NO. S 4437 EXP. 12/31/24 STRUCTURAL STATE OF CALIFORNIA

FIRM: ORION STRUCTURAL ENGINEERING, INC.
ADDRESS: 11305 RANCHO BERNARDO ROAD, SUITE 121
CITY: SAN DIEGO, CA 92127
PHONE: (858) 679-1974

PROJECT SPECIFIC PROFESSIONAL OF RECORD

LODI UNIFIED SCHOOL DISTRICT
MILLSWOOD MIDDLE SCHOOL
PORTABLE RELOCATION
DSA APP# 02-121945
FILE No.: 39-50
PTN: 68585-261

FIRM:
ADDRESS:
CITY:
PHONE:

REVISIONS

1	-
2	-
3	-
4	-
5	-

PROJECT NO.:	00-0000
DRAFTER:	00
SCALE:	AS NOTED
DATE:	00-00-00

SHEET NUMBER

R-9

9/26/2023 9:29:37 AM