SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT
SAN LUIS OBISPO HIGH SCHOOL
1499 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401
PROJECT TRACKING # 68809 - 82
DSA A # 03 - 125456

GENERAL NOTES

1. ANY DIFFERENCE BETWEEN THE EXISTING CONSTRUCTION AS OBSERVED IN THE FIELD AND AS SHOWN ON THE DRAWINGS SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

2. 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 ALL DIMENSIONS, REVIEW BUILDING LAYOUT WITH ARCHITECT BEFORE STARTING ANY FOOTING EXCAVATION OR FOUNDATION WORK.

3. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACTUAL SITE CONDITIONS REGARDLESS OF INFORMATION SHOWN ON THE DRAWINGS. DISCREPANCIES BETWEEN CONDITIONS SHOWN OR NOT SHOWN ON DRAWINGS AND ACTUAL EXISTING VISIBLE, DISCERNABLE CONDITIONS AT THE JOB SITE, DO NOT RELIEVE THE CONTRACTOR FROM PERFORMING THE WORK OF THIS CONTRACT IN FULL CONFORMANCE WITH THE CONTRACT DOCUMENTS.

4. IT SHALL BE THE RESPONSIBILTY OF THE GENERAL CONTRACTOR TO ENSURE THAT ALL APPLICABLE SAFETY LAWS ARE STRICTLY ENFORCED AND TO MAINTAIN A SAFE CONSTRUCTION PROJECT.

5. BIDDERS MUST VISIT THE BUILDING SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS TO PROVIDE A PROJECT COMPLETE IN EVERY DETAIL AND READY FOR OCCUPANCY. DISCREPANCIES OR DELETIONS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE THE BID DATE FOR CORRECTION.

6. ANY DAMAGE DONE TO THE EXISTING SITE OR FACILITIES DURING THE COURSE OF THE WORK SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE WITH NO ADDITIONAL COST TO THE OWNER.

7. BIDDERS SHALL ASSUME THAT ALL ITEMS INDICATED ON THE DRAWINGS ARE NEW CONSTRUCTION IF NOT INDICATED WITH AN (N) OR "NEW", UNLESS INDICATED AS "(E)" OR "EXISTING".

8. ALL NEW WORK SHALL MATCH EXISTING IN KEEPING WITH GOOD CONSTRUCTION PRACTICE. IT IS THE INTENT OF THESE DOCUMENTS THAT THE PORTION OF THE SURFACE WHICH HAS BEEN INSTALLED, REPAIRED OR REPLACED, SHALL MATCH THE EXISTING ADJACENT SURFACES, AND THAT THE NEW WORK WILL NOT BE DISCERNABLE FROM THE EXISTING.

9. CONTRACTOR TO VERIFY ALL P.O.C. FOR UTILITIES. I.E. POTHOLE EACH SIDE, FIELD VERIFY DEPTHS THROUGHOUT FOR ALL EXISTING UTILITIES. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE ON BEHALF OF THE CONTRACTOR ON ACCOUNT OF AN ERROR ON HIS OR HER PART DUE TO HIS OR HER NEGLIGENCE OR FAILURE TO ACQUANT HIM OR HERSELF WITH THE CONDITIONS OF THE SITE, EXISTING UTILITY LOCATIONS AND EASEMENTS, OR OF THE STREET OR ROADS APPROACHING THE SITE.

GENERAL REQUIREMENTS

1. ALL WORK SHALL CONFORM TO 2022 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CHANGE ORDERS APPROVED BY THE DIVISION 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 DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR).

4. A 'DSA CERTIFIED' INSPECTOR WITH CLASS 2 CERTIFICATION IS REQUIRED FOR THIS PROJECT.

5. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE SCHOOL BOARD SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THIS PROJECT.

6. 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 WHERE IN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OR REGULATIONS, A CHANGE ORDER, 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.

CALIFORNIA ENERGY CODE

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANE TESTS MUST BE PERFORMED BY CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TEST SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OR RECORD OR THE OWNER'S AGENT.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT"
HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE.

THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

APPLICABLE CODES/STANDARDS

CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING:
APPLICABLE CODES:

2025 BUILDING STANDARDS ADMINISTRATIVE CODE. PART 1, TITLE 24 C.C.R.
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.;
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.;
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.;
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.;
2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.;
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R.;
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24, C.C.R.;
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11 TITLE 24, C.C.R.;
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.
2022 TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING:

NFPA 13- AUTOMATIC SPRINKLER SYSTEMS, (CALIFORNIA AMENDED) 2016 EDITION
NFPA 14- STANDPIPES SYSTEMS, (CALIFORNIA AMENDED) 2013 EDITION
NFPA 17 DRY CHEMICAL EXTINGUISHING SYSTEMS 2013 EDITION
NFPA 17A- WET CHEMICAL EXTINGUISHING SYSTEMS, 2013 EDITION
NFPA 20 STATIONARY PUMPS. 2016 EDITION
NFPA 24- PRIVATE FIRE SERVICE MAINS, (CALIFORNIA AMENDED) 2016 EDITION - PART OF NFPA 13 CHAPTER 5
NFPA 80 FIRE DOOR AND OTHER OPENING PROTECTIVES, 2016 EDITION
NFPA 72 (CALIFORNIA AMENDED)- NATIONAL FIRE ALARM & SIGNALING CODES, 2016 EDITION
NFPA 253- CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS, 2015 EDITION
NFPA 2001- CLEAN AGENT FIRE EXTINGUISHING SYSTEMS, (CALIFORNIA AMENDED), 2015 EDITION

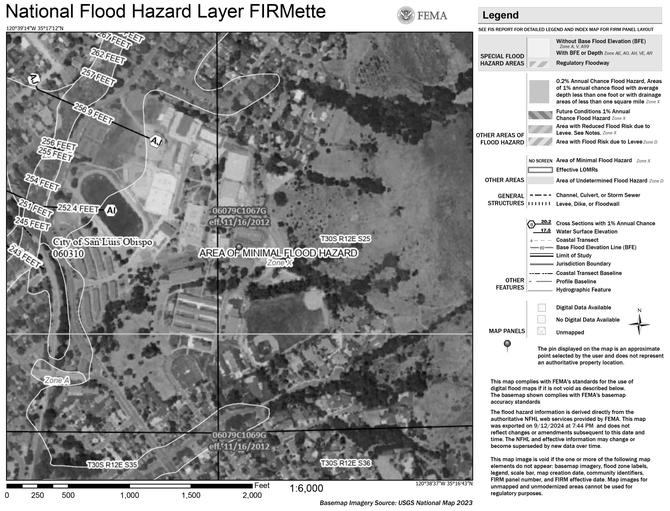
REFERENCE CODE SECTION FOR NFPA STANDARDS - CBC [SFM] 3503.1.3

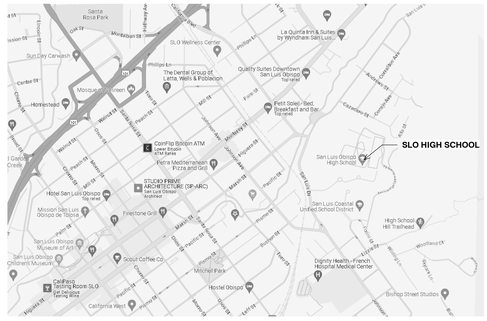
NATIONAL REFERENCE STANDARDS:
AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS (ANSI/AISC 341-10)
AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (ANSI/AISC 360-10)
ACI-318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
ASD (AISC) MANUAL OF STEEL CONSTRUCTION, 14TH EDITION.
AWC NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, 2015 EDITION.
ACI-318-05 CODE & COMMENTARY

STATE BUILDING CODE
(Part 1, Title 24, C.C.R.)
"The intent of these drawings and specification 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 noncomplying 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 change order, 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"

Changes to the approved drawings and specifications shall be made by an addenda or a change order approved by the Division of the State Architect, as required by Section 4-338, Part 1, Title 24, CCR.

National Flood Hazard Layer FIRMette





VICINITY MAP

SHEET INDEX

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G-002 CAMPUS PLAN

CIVIL
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C-2.0 SITE IMPROVEMENT PLAN
C-2.1 SITE IMPROVEMENT PLAN
C-3.0 SITE SECTIONS - RESTROOM
C-4.0 UTILITY PLAN
C-4.1 UTILITY PLAN
C-5.0 CONSTRUCTION DETAILS
C-5.1 CONSTRUCTION DETAILS
C-6.0 EROSION CONTROL PLAN & DETAILS

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L-2 IRRIGATION PLAN - CLASSROOM BUILDING
L-2.1 IRRIGATION LEGEND AND DETAILS
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L-4 PLANTING DETAILS

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A-100 SITE DEMO PLAN - CLASSROOM BLDG
A-101 SITE DEMO PLAN - TAYLOR FIELD
A-102 SITE PLAN - CLASSROOM BLDG
A-103 SITE PLAN - TAYLOR FIELD
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A-105 SITE DETAILS
A-106 SITE DETAILS
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A-501 ENLARGED PLAN & INTERIOR ELEVATIONS - CLASSROOM BLDG SERVICE SPACES
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A-804 ROOF DETAILS
A-900 SIGNAGE PLAN - CLASSROOM BLDG + MODULAR RESTROOM
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A-902 INTERIOR DETAILS
A-903 ACCESSIBILITY DETAILS
A-904 CEILING DETAILS

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S-102 TYPICAL DETAILS
S-103 TYPICAL DETAILS
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S-202 ROOF FRAMING PLAN
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S-302 STRUCTURAL DETAILS
S-303 STRUCTURAL DETAILS

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M-021 MECHANICAL CONTROLS
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EN 1.0 ENERGY COMPLIANCE FORMS
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E-403 ELECTRICAL DETAILS
E-404 ELECTRICAL DETAILS
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FP-0.01 FIRE SPRINKLER HYDRAULIC SITE PLAN
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FP-1.00 FIRE SPRINKLER PIPING PLAN
FP-2.00 FIRE SPRINKLER RCP
FP-3.00 SEISMIC BRACING PLAN
FP-4.00 SECTIONS

MODULAR (PC APPROVAL 02-113910)
A0 COVER SHEET, BUILDING CODES & CBC DATA, SHEET INDEX
A1A STAFF, BOYS, GIRLS RESTROOM FLOOR PLAN, INT & EXT ELEVATIONS, MATERIAL SPECIFICATIONS & NOTES
A2 REFLECTED CEILING PLANS & CEILING ATTACHMENT DETAILS
AGB GREEN BUILDING STANDARDS
EN1 ENERGY COMPLIANCE UNCONDITIONED RESTROOM
EN1.1 ENERGY COMPLIANCE UNCONDITIONED RESTROOM
EN1.2 ENERGY COMPLIANCE UNCONDITIONED RESTROOM
A3 ELECTRICAL POWER PLAN, SIGNAL PLAN, LIGHTING PLAN, DETAILS, ELECTRICAL NOTES
A4 SECTIONS AND DETAILS 2X4 EXTERIOR WALLS (NON-RATED)
A4H INTERIOR WALL CONNECTION DETAILS
A5 MISCELLANEOUS DETAILS
S1W65 65 PSF WOOD FOUNDATION PLAN, PEIR DETAILS, NOTES
S2 BI-PITCH ROOF, CEILING & FLOOR FRAMING PLANS, STRUCTURAL STEEL PROPERTIES NOTES
S3FA FASTENING SCHEDULE & NOTES
S3 BI-PITCEHD ROOF LONGITUDINAL BUILDING SECTION, WALL FRAMING ELEV., END FRAME ELEV., NAILING SCHEDULE
S4 STRUCTURAL CONNECTION DETAILS
S4.1 ALTERNATE STRUCTURAL DETAILS
S4.2 ALTERNATE STRUCTURAL DETAILS
WC1 CANOPY FRAMING & CONNECTION DETAILS
S5R ACCESSIBLE RAMP & PLATFORM DETAILS

SYMBOL LEGEND

ROOM NAME & NUMBER — ROOM 101
KEY NOTE — ?
DOOR SYMBOL — 11
WINDOW SYMBOL — 11
WALL TYPE — 1
DETAIL SYMBOL — XX / X-XXX (DRAWING NO. / SHEET NO.)
EXTERIOR ELEVATIONS — 1 / A101 (DRAWING NO. / SHEET NO.)
INTERIOR ELEVATIONS — D 14 / A101 B, C (DRAWING NO. / SHEET NO.)
NORTH ARROW (PROJECT NORTH)
ACCESSIBLE WHEELCHAIR SPACE, 30"W X 48"D CLEAR FLR SPACE. 27"H CLR KNEE SPACE MIN & 34"H MAX TO TO TOP OF TABLE/COUNTER (WHERE OCCURS)
DIMENSION LINES — 1/2", 1"
BREAK LINE
CENTER LINE
WI (WOODWORK INSTITUTE) DESIGN SERIES NUMBER SYSTEM CODE — 100 MODIFIED 100M

ABBREVIATIONS

ABV	ABOVE	ELEV	ELEVATOR / ELEVATION	LF	LINEAR FOOT	REV	REVISION(S) / REVISED
AFF	ABOVE FINISH FLOOR	EMER	EMERGENCY	LT	LIGHT	RH	RIGHT HAND
ADJ	ADJUSTABLE / ADJACENT	ENCL	ENCLOSURE	LVR	LOUVER	RD	ROOF DRAIN
A/C	AIR CONDITIONING	EQ	EQUAL			RFG	ROOFING
ALT	ALTERNATE	EQUIP	EQUIPMENT	MB	MACHINE BOLT	RM	ROOM
ALUM	ALUMINUM	EST	ESTIMATE	MH	MANHOLE	RO	ROUGH OPENING
AB	ANCHOR BOLT	EXCA	EXCAVATE	MFR	MANUFACTURE (R)	RHMS	ROUND HEAD MACHINE SCREW
&	AND	EXH	EXHAUST	MAT	MATERIAL (S)	RHWS	ROUND HEAD WOOD SCREW
<	ANGLE	(E)	EXISTING	MAX	MAXIMUM		
ANOD	ANODIZED	EXP	EXPANSION	MECH	MECHANIC (AL)	SCHD	SCHEDULE
APPROX	APPROXIMATE	EJ	EXPANSION JOINT	MED	MEDIUM	SHT	SHEET
ARCH	ARCHITECT (URAL)						
		FH	FIRE HYDRANT	MBR	MEMBER	SHTG	SHEATHING
ASPH	ASPHALT	FOC	FACE OF CONCRETE	MTL	METAL	SMS	SHEET METAL SCREW
AC	ASPHALT CONCRETE	FOF	FACE OF FINISH	MIN	MINIMUM	SHWR	SHOWER
@	AT	FOM	FACE OF MASONRY	MTD	MOUNT (ED)	SIM	SIMILAR
AUTO	AUTOMATIC	FOS	FACE OF STUD	MTG	MOUNTING	SC	SOLID CORE
		FN	FIELD NAILING			S	SOUTH
BM	BEAM	FIN	FINISH	NAT	NATURAL	SPK	SPEAKER
BLKG	BLOCKING	FIN FLR	FINISH FLOOR	(N)	NEW	SPEC	SPECIFICATION (S)
BD	BOARD	FG	FINISH GRADE	N	NORTH	SQ	SQUARE
BOT	BOTTOM	FIXT	FIXTURE	NIC	NOT IN CONTRACT	SS	STAINLESS STEEL
BN	BOUNDARY NAILING	FLASH	FLASHING	NOM	NOMINAL	STD	STANDARD
BLDG	BUILDING	FHMS	FLAT HEAD MACHINE SCREW	NTS	NOT TO SCALE	STL	STEEL
BUR	BUILT UP ROOFING	FHWS	FLAT HEAD WOOD SCREW	#	NUMBER	STOR	STORAGE
		FLR	FLOOR (ING)			STRUCT	STRUCTURE / STRUCTURAL
CAB	CABINET	FLUOR	FLUORESCENT	OC	ON CENTER	SUSP	SUSPENDED
CPT	CARPET	FT	FOOT OR FEET	OD	OUTSIDE DIAMETER	SYM	SYMMETRY / SYMMETRICAL
CLG	CEILING	FTG	FOOTING	OPNG	OPENING	SYS	SYSTEM
CEM	CEMENT	FND	FOUNDATION	OFF	OFFICE		
CL	CENTERLINE	FURR	FURRING	OPP	OPPOSITE	TEL	TELEPHONE
CER	CERAMIC			O/	OVER	TV	TELEVISION
CIR	CIRCLE	GA	GAGE / GAUGE			THK	THICK (NESS)
COL	COLUMN	GALV	GALVANIZED	PR	PAIR	T&B	TOP AND BOTTOM
CONC	CONCRETE	GND	GROUND	PNL	PANEL	TO	TO OF ...
CMU	COMCRETE MASONRY UNIT	GYP	GYPSUM	PKG	PARKING	TS	TOP OF STEEL
CONN	CONNECTION			PTN	PARTITION	TW	TOP OF WALL
CONST	CONSTRUCTION	HDW	HARDWARE	PVMNT	PAVEMENT	TR	TREAD
CJ	CONSTRUCTION JOINT	HDR	HEADER	PERF	PERFORATE (D)	TS	TUBULAR STEEL
CONT	CONTINUOUS / CONTINUE	HTG	HEATING	PERIM	PERIMETER	TYP	TYPICAL
CTSK	COUNTER SINK	HVAC	HEATING VENTILATION & AIR CONDITIONING	PLAS	PLASTIC		
				PLAM	PLASTIC LAMINATE	UON	UNLESS OTHERWISE NOTED
DEM	DEMOLISH / DEMOLITION	HT	HEIGHT	PL	PLATE		
DET	DETAIL	HC	HOLLOW CORE	PLYWD	PLYWOOD	VERT	VERTICAL
DIAG	DIAGONAL	HM	HOLLOW METAL	POC	POINT OF CONNECTION	VG	VERTICAL GRAIN
DIA	DIAMETER	HOR	HORIZONTAL	PVC	POLYVINYL CHLORIDE	VCT	VINYL COMPOSITION TILE
DIM	DIMENSION			PCF	POUNDS PER CUBIC FOOT		
DIV	DIVISION	ID	INSIDE DIAMETER	PSF	POUNDS PER SQUARE FOOT	WSCT	WAINSCOT
DR	DOOR	INSUL	INSULATION	PT	PRESSURE TREATED	WC	WATER CLOSET
DBL	DOUBLE	INT	INTERIOR			WH	WATER HEATER
DN	DOWN			RAD	RADIUS	WP	WATERPROOF (ING)
DWG	DRAWING	JAN	JANITOR	REF	REFERENCE	W/R	WATER RESISTANT
DF	DRINKING FOUNTAIN / DOUGLAS FIR	JST	JOIST	REFR	REFRIGERATOR	WT	WEIGHT
				REG	REGISTER	W	WEST / WOMEN / WIDE
EA	EACH	L	LENGTH / LONG	REINF	REINFORCED	WDW	WINDOW
E	EAST	LAB	LABORATORY	REQ'D	REQUIRED	W/	WITH
ELEC	ELECTRIC (AL)	LAM	LAMINATE	RESIL	RESILIENT	W/O	WITHOUT
		LAV	LAVATORY	RET	RETAINING	WD	WOOD
		LB	POUND	R/A	RETURN AIR		

PROJECT DATA

OWNER: SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT
PROJECT ADDRESS: 1499 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401
CALIFORNIA CLIMATE ZONE 5

SCOPE OF WORK

THE PROJECT INCLUDES A NEW CLASSROOM BUILDING (7,725 GSF)
A. CONSTRUCTION OF SEVEN NEW CLASSROOMS. UPGRADE IN CONSTRUCTION TYPE TO TYPE VA' AS PART OF ALTERNATE MEANS AND METHODS RELATING TO <1500 GPM FIRE FLOW GPM. ALLOWABLE BUILDING HEIGHT AND SQUARE FOOTAGE PER TYPE VB
B. STAFF RESTROOM, CUSTODIAL ROOM, I.T. ROOM, FIRE RISER ROOM, ELECTRICAL ROOM
C. UNDERGROUND UTILITIES AND ASSOCIATED HARDSCAPE, LIGHTING, POWER, FIRE ALARM
D. RELOCATION OF ONE (E) MODULAR RESTROOM BUILDING (SERIAL NUMBER 11360, PC 03-113910, SITE SPECIFIC A# 03-116940). THE FOLLOWING DOCUMENTS SHALL BE ON THE JOBSITE PRIOR TO INSTALLATION OF THE UNIT(S):
1. IN PLANT VERIFIED REPORT
2. LABORATORY VERIFIED REPORT
3. WELDING VERIFIED REPORT
THE SITE INSPECTOR SHALL VERIFY THE ABOVE DOCUMENTS AND SERIAL NUMBERS ARE APPLICABLE TO EACH UNIT PRIOR TO INSTALLATION OF THE UNIT(S). NOTIFY ARCHITECT AND THE DIVISION OF THE STATE ARCHITECT FIELD ENGINEER IF ANY DISCREPANCIES OCCUR.

PROJECT TEAM

ARCHITECT
KRUGER BENSEN ZIEMER ARCHITECTS, INC
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PROJECT MANAGER: MAT GRADIAS
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CIVIL
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STRUCTURAL
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STRUCTURAL ENGINEER: GREG STORK
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MECHANICAL/PLUMBING/FIRE PROTECTION
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ELECTRICAL
THOMA ELECTRICAL
3562 EMPLEO STREET, SUITE C
SAN LUIS OBISPO, CA 93401
(805) 543-3850

ELECTRICAL ENGINEER: ROGER PREHEIM
EMAIL: rpreheim@thomaelec.com

STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS

APPLICATION NO. 03-125456
FILE NO.: 40-H5

THE MANUFACTURER'S DRAWINGS LISTED ON THE SHEET INDEX HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. THEY HAVE BEEN EXAMINED BY ME FOR:

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

THE STATEMENT OF GENERAL CONFORMANCE SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4

CODE ANALYSIS

ALLOWABLE FLOOR AREA CALCULATIONS BASED ON 2022 CBC CHAPTER 5.

AREA	OCC.	TYPE	% OF PERIMETER	STORIES	ALLOWABLE AREA	INCREASE FACTOR	ALLOWABLE SF	ACTUAL SF	SPRINKLER
A1	C-1, C-2	III	NOT USED	1	--	--		17,940	NO
A2	B-2, C-1	III	NOT USED	1	--	--		15,701	NO
A3	C-1	III	NOT USED	1	--	--		5,410	NO
B	C	III	NOT USED	1	--	--		19,896	NO
D	C-1	V-N	NOT USED	1	--	--		5,160	NO
E1	C-1	III	NOT USED	1	--	--		11,425	NO
E2	C-1	III	NOT USED	1	--	--		13,307	NO
F1	E	V-B	NOT USED	1	--	--	9,500	21,890	YES
F2/F3	E/A-2/A-3	V-B	NOT USED	2	--	--		29,688	YES
F4	E/S-1	V-B	NOT USED	1	--	--		22,918	YES
G	C-1	V	NOT USED	1	--	--		8,260	NO
H	E	V-N	NOT USED	2	--	--	9,500	7,330	NO
I	E	V-B	NOT USED	1	--	--	9,500	7,451	NO
J	E/S-1	V-B	NOT USED	1	--	--	9,500	8,437	NO
J1	E	V-N	NOT USED	1	--	--	9,500	528	NO
J2	E	V-N	NOT USED	1	--	--	9,500	1,728	NO
J3	E	V-N	NOT USED	1	--	--	9,500	1,728	NO
K	E/S-1	V-B	NOT USED	1	--	--		6,718	NO
N	E	V-B	NOT USED	1	--	--	9,500	15,286	YES
O	E	V-B	NOT USED	1	--	--	9,500	2,880	NO
Q	E	V	NOT USED	1	--	--	9,500	480	NO
S	E	V-N	NOT USED	1	--	--	9,500	635	NO
T	A/B	V-B	NOT USED	1	--	--		15,621	YES
U	A	V-B	NOT USED	1	--	--		635	NO

Accessible Path of Travel Requirements Per CBC 11B-202.4

PER CBC 11B-403, PATH OF TRAVEL (P.O.T.) AS INDICATED IS A BARRIER FREE ACCESS AT LEAST 48" WIDE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAX SLOPE, EXCEPT AT LEVEL CHANGES NOT EXCEEDING 1/4" VERTICAL. SURFACE IS SLIP RESISTANT, STABLE, FIRM AND SMOOTH. THE TRAVEL DOES NOT EXCEED A 1:20 SLOPE, UNLESS OTHERWISE NOTED. P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MIN (11B-204&11B-307) AND PROTUTRUDING OBJECTS GREATER TJAM 4" PROJECTION FROM WALL ABOVE 27" AND LESS THAN 80" (11B-204&11B-307) ABOVE FINISH GRADE. ARCHITECT HAS VERIFIED THAT ALL BARRIERS IN THE P.O.T. HAVE BEEN REMOVED OR WILL BE REMOVED UN DER THIS PROJECT AND THAT P.O.T. COMPLIES WITH CBC 11B-401.

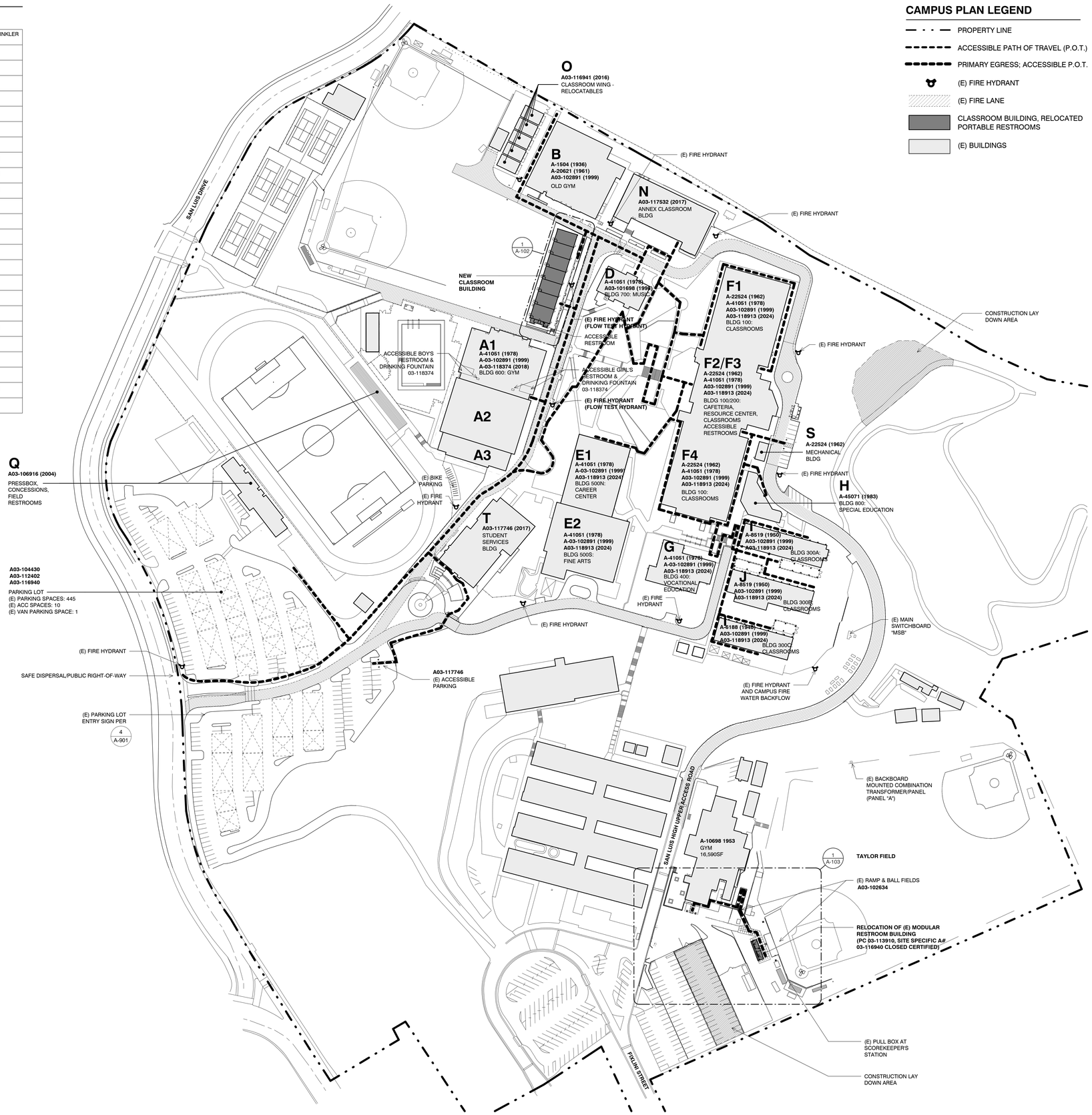
GRATINGS LOCATED IN THE SURFACE OF ANY PEDESTRIAN WAYS AT P.O.T. TO HAVE GRID/OPENINGS LIMITED TO 1/2" MAX IN THE DIRECTION OF TRAFFIC FLOW.

GATES IN THE P.O.T. COMPLY WITH EXIT DOOR REQUIREMENTS (11B-206.5&11B-404.1), INCLUDING LEVER HARDWARE AND KICKPLATE GATES REQUIRED FOR EMERGENCY EXITING INCLUDE PANIC HARDWARE.

Design Professional in General Responsible Charge Statement:

THE PATH OF TRAVEL IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, PATH OF TRAVEL WAS EXAMINED AND ELEMENTS, COMPONENTS OR PORTIONS OF THE PATH OF TRAVEL THAT WERE DETERMINED TO BE NON-COMPLIANT WITH THE CALIFORNIA BUILDING CODE HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECTS WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE PATH OF TRAVEL THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOL LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF PATH OF TRAVEL ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CALIFORNIA BUILDING CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTURCTION TOLERANCES, THE ITEMS SHALL BE BROUGH INTO COMPLIANCE WITH THE CALIFORNIA BUILDING CODE AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.



1 CAMPUS PLAN
SCALE: 1" = 80'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125456 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026

SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT

SAN LUIS OBISPO HIGH SCHOOL

1489 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401

NEW CLASSROOM BUILDING & RELOCATION OF MODULAR RESTROOM

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELLAGA STREET SANTA BARBARA CA 93101
TELEPHONE (805) 963-1726 FAX (805) 963-2951

JOE S. WILCOX, AIA
PRINCIPAL IN-CHARGE

MAT GRADIAS, AIA
PROJECT MANAGER

All ideas, design arrangements and plans indicated or represented by this drawing are owned by and are the property of Kruger-Bensen-Ziemer Aia architects, and were created, evolved and developed for use on, and in connection with, the specified projects. None of such ideas, designs, arrangements or plans shall be used by or disclosed to any person, firm or corporation for any purpose whatsoever without the written permission of Kruger-Bensen-Ziemer.

ARCHITECT'S STAMP & SIGNATURE

ENGINEER'S STAMP & SIGNATURE

LICENSED ARCHITECT JOE S. WILCOX No. C-9808 Renewal 2027 STATE OF CALIFORNIA

CONSULTANT INFORMATION

REVISION	DESCRIPTION	DATE	BY
5			
4			
3			
2			
1			

DRAWN TA
CHECKED MG/JW
DATE 06/01/26
JOB. NO. 24010

SHEET TITLE CAMPUS PLAN

SHEET G-002

NEW CLASSROOM & RESTROOM RELOCATION SITE IMPROVEMENTS

SAN LUIS OBISPO HIGH SCHOOL

SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT

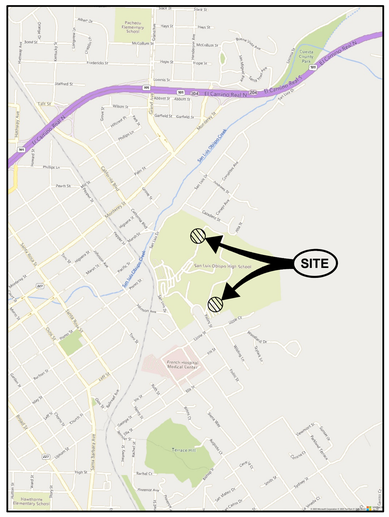
1499 SAN LUIS DRIVE, SAN LUIS OBISPO, CALIFORNIA

LIST OF SYMBOLS:

AC	ASPHALTIC CONCRETE
ACP	ASBESTOS CEMENT PIPE
AB	AGGREGATE BASE
BC	BEGIN CURVE
BCR	BEGIN CURB RETURN
BD	BASEMENT DRAIN
BFV	BUTTERFLY VALVE
BM	BENCHMARK
BV	BALL VALVE
BVC	BEGIN VERTICAL CURVE
BW	BACK OF WALK
CIP	CAST IRON PIPE
CJ	CRACK CONTROL JOINT
CL	CLASS
℄ OR C/L	CENTERLINE
CMP	CORRUGATED METAL PIPE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
CTV	CABLE TELEVISION
DIP	DUCTILE IRON PIPE
D	DRAIN
E	ELECTRICAL
DI	DROP INLET
EC	END CURVE
ECR	END CURB RETURN
EG	EXISTING GRADE
EJ	EXPANSION JOINT
EL	ELEVATION
EP	EDGE OF PAVEMENT
EVC	END VERTICAL CURVE
EW	EACH WAY
EX	EXISTING
FD	FLOOR DRAIN
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FL OR FL	FLOWLINE
FLG	FLANGE
FS	FINISH SURFACE
G	GAS
GB	GRADE BREAK
GM	GAS METER
GSP	GALVANIZED STEEL PIPE
GSV	GAS VALVE
GV	GATE VALVE
HB	HOSE BIB
HP	HIGH POINT
INV	INVERT
L	CURVE LENGTH
LF	LINEAL FEET
MH	MANHOLE
MJ	MECHANICAL JOINT
NIC	NOT INCLUDED IN CONTRACT
OC	ON CENTER
OCEW	ON CENTER EACH WAY
PCC	POINT OF COMPOUND CURVATURE
PI	POINT OF INTERSECTION (OF CURVE TANGENTS)
ℙ OR P/L	PROPERTY LINE
PRC	POINT OF REVERSE CURVATURE
PVC	POLY-VINYL CHLORIDE
PV	PLUG VALVE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RG	RETAINING GLAND
RSJ	ROUGH SURFACE JOINT
R/W	RIGHT-OF-WAY
S	SEWER
SD	STORM DRAIN
SL	STREET LIGHT
ST STL	STAINLESS STEEL
STA	STATION
STD DTL	STANDARD DETAIL
T	TELEPHONE
T BLK	THRUST BLOCK
TB	TOP OF BERM
TC	TOP OF CURB
TCN	TOP OF CONCRETE
TD	TOP OF DIKE
TF	TOP OF FOOTING
TG	TOP OF GRATE
TI	TRAFFIC INDEX
TL	TRAFFIC LIGHT
TP	TOP OF PAVEMENT
TYP	TYPICAL
TW	TOP OF WALL
VCP	VITRIFIED CLAY PIPE
VPI	VERTICAL POINT OF INTERSECTION (OF VERTICAL CURVE TANGENTS)
W	WATER
W/	WITH
WD	WALL DRAIN
WM	WATER METER
WV	WATER VALVE
△	DELTA (CURVE CENTRAL ANGLE)
±	APPROXIMATELY
%	PERCENT
<	LESS THAN
>	GREATER THAN

LEGEND:

DESCRIPTION	EXISTING	PROPOSED
CENTERLINE		
EDGE OF A.C. PAVEMENT		
ELEVATION	100.00 OR (100.00)	100.00
CONCRETE PAVEMENT	CONCRETE PAVEMENT	CONCRETE PAVEMENT
A.C. PAVEMENT		
PROPERTY LINE		
RIGHT-OF-WAY LINE		
EASEMENT LINE		
CONTOURS (MAJOR)	10	10
CONTOURS (MINOR)	12	12
BENCH MARK		
TREE CANOPY		
APPROX. SAW CUT LINE		
LIMIT OF GRADING LINE		
GRADE BREAK LINE		GB
FLOW LINE		
SLOPE LINE		
FENCE		
RETAINING WALL		
WATER	W	W
SEWER	S	S
STORM DRAIN	SD	SD
POWER	E	E
GAS	G	G
TELEPHONE	T	T
CABLE TV	CTV	CTV
MANHOLE	MH	MH
CLEANOUT	CO	CO
WATER METER & LATERAL	W WM	W WM
FIRE HYDRANT		
THRUST BLOCK		
FITTING		
STREET LIGHT		



VICINITY MAP
NOT TO SCALE

BENCHMARK:

VERTICAL DATUM FOR THIS PROJECT IS BASED ON SLOHS CONTROL NETWORK ESTABLISHED BY OTHERS.

CAUTION! CONFIRM BENCHMARK DATA AND CONDITION WITH PROJECT SURVEYOR (RRM DESIGN GROUP) PRIOR TO USE.

BASIS OF BEARING:

HORIZONTAL DATUM FOR THIS PROJECT IS BASED ON SLOHS CONTROL NETWORK ESTABLISHED BY OTHERS.

TOPOGRAPHY:

EXISTING TOPOGRAPHY COMPILED BY FIELD SURVEY(S) BY RRM DESIGN GROUP.

SURVEY MONUMENT PROTECTION:

PROTECT AND PRESERVE, IN PLACE, ALL SURVEY MONUMENTS AND BENCHMARKS. DO NOT DISTURB, MOVE, OR RELOCATE MONUMENTS OR BENCHMARKS WITHOUT THE PRIOR REVIEW AND APPROVAL BY THE AGENCY HAVING JURISDICTION OVER THE MONUMENT OR BENCHMARK. THE CONTRACTOR SHALL CONTRACT WITH A LICENSED SURVEYOR FOR MONUMENTS REQUIRING DISTURBANCE OR REMOVAL, AND THE SURVEYOR SHALL RESET THE MONUMENTS OR PROVIDE PERMANENT WITNESS MONUMENTS AND FILE THE REQUIRED DOCUMENTATION WITH THE COUNTY SURVEYOR PURSUANT TO BUSINESS AND PROFESSIONAL CODE SECTION 8771.

RESPONSIBILITIES:

A. OWNERS RESPONSIBILITIES:

1. PRIOR TO COMMENCING CONSTRUCTION CALLED FOR BY THESE PLANS, SPECIFICATIONS AND DETAILS, THE OWNER SHALL ENGAGE A GEOTECHNICAL ENGINEER TO PROVIDE CONSTRUCTION PHASE OBSERVATION AND TESTING SERVICES AN SHALL ALSO ENGAGE THE PROJECT ENGINEER OR ANOTHER QUALIFIED PARTY TO PROVIDE PROJECT CONSTRUCTION OBSERVATION AND ASSURANCES ON CONFORMANCE WITH THE APPROVED PLANS, SPECIFICATIONS AND AGENCY REQUIREMENTS. THE OWNER SHALL ALSO ASSURE THAT CONTRACTOR(S) ENGAGED TO PROPERLY IMPLEMENT THE CONSTRUCTION CALLED FOR ON THESE PLANS, SPECIFICATIONS AND DETAILS INCLUDING THOSE TASKS CALLED FOR ON THE PROJECT STORM WATER POLLUTION PREVENTION PLAN DOCUMENT OR EROSION CONTROL PLAN SHEETS ATTACHED AS PART OF THESE PLANS.

B. GEOTECHNICAL ENGINEER'S RESPONSIBILITIES:

1. A GEOTECHNICAL ENGINEER SHALL REVIEW THESE PLANS WITH RESPECT TO GENERAL CONFORMANCE WITH THE INTENT OF THE RECOMMENDATIONS PRESENTED IN THE PROJECT SOILS ENGINEERING REPORT. THE PLAN REVIEW SHALL BE PERFORMED SPECIFICALLY WITH RESPECT TO GEOTECHNICAL FACTORS DISCUSSED IN THE REFERENCED REPORT. IN PERFORMING THE REVIEW, A GEOTECHNICAL ENGINEER SHALL ATTEMPT TO VERIFY THAT THE CONCEPTS AND RECOMMENDATIONS PRESENTED IN THE REPORT ARE GENERALLY INCORPORATED INTO THE PLANS. IN ACCORDANCE WITH THIS LEVEL REVIEW, THE PLANS ARE TO BE FOUND IN SUBSTANTIAL CONFORMANCE WITH THE CONCEPTS AND RECOMMENDATIONS PRESENTED IN THE NOTED REPORT. SEE GEOTECHNICAL ENGINEERING AND GEOLOGOIC HAZARDS REPORT PREPARED BY EARTH SYSTEMS PACIFIC, DATED 10/03/2024; FILE NO. 300933-026.

2. UPON BEING RETAINED BY THE OWNER, PRIOR TO CONSTRUCTION THE GEOTECHNICAL ENGINEER SHALL RECOMMEND TO THE OWNER AND THE CONTRACTOR THE LEVEL OF OBSERVATION AND TESTING THAT WILL BE PROVIDED DURING CONSTRUCTION. PROVIDED THAT THE CONTRACTOR FULFILLS HIS OR HER RESPONSIBILITY FOR TIMELY REQUESTS FOR THOSE SERVICES DURING CONSTRUCTION. THE GEOTECHNICAL ENGINEER SHALL PROVIDE OBSERVATION AND TESTING AT THE PROJECT WORK AREA OF EARTHWORK OPERATIONS, INCLUDING TRENCHING AND PAVEMENT SUBGRADE PREPARATION, AS NECESSARY TO HAVE REASONABLE CERTAINTY THAT THE EARTHWORK IS PERFORMED IN GENERAL COMPLIANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS, AND WITH THE REQUIREMENTS OF THE CITY OF SAN LUIS OBISPO.

3. UPON COMPLETION OF EARTHWORK, THE GEOTECHNICAL ENGINEER SHALL, UPON REQUEST, PROVIDE A FINAL REPORT WITH RESULTS OF THEIR OBSERVATION AND TESTING DURING EARTHWORK OPERATIONS. PROVIDED THAT THE WORK IS PERFORMED IN CONFORMANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS, THE REPORT WILL STATE THEIR OPINION THAT THE GRADING WAS COMPLETED IN SUBSTANTIAL COMPLIANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.

C. CONTRACTORS STORM WATER POLLUTION CONTROL RESPONSIBILITIES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONSTRUCT AND MAINTAIN POLLUTION PREVENTION MEASURES, INCLUDING THOSE FOR EROSION AND SEDIMENT CONTROL, AS NECESSARY TO PREVENT ANY POLLUTANT AT ANY LEVEL FROM BEING CONVEYED OFF THE CONSTRUCTION SITE AND THAT THESE MEASURES MUST CONTINUE TO BE MAINTAINED UNTIL THE REQUIRED POST-CONSTRUCTION POLLUTION PREVENTION MEASURES ARE IN PLACE AND COMPLETELY FUNCTIONAL, INCLUDING PERMANENT LANDSCAPING.

2. THE SPECIFIC MEASURES WHICH MAY BE CALLED FOR ON THE PROJECT STORM WATER POLLUTION PREVENTION PLAN CANNOT ADDRESS ALL SITE DEVELOPMENT AND STORM CHARACTERISTICS WHICH WILL EVOLVE OVER THE COURSE OF CONSTRUCTION AND THAT IT IS THE CONTRACTORS RESPONSIBILITY TO NOT ONLY IMPLEMENT THE PLAN, BUT TO MAKE ADJUSTMENTS AND EXPANSIONS IN THE IMPLEMENTATION AS NECESSARY TO ADAPT TO THE CONTRACTOR'S CONSTRUCTION OPERATIONS AND SCHEDULE AND ADDRESS EVOLVING SITE CONDITIONS AND ACTUAL WEATHER CONDITIONS.

3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE EMPLOYEES AND SUBCONTRACTORS ARE TRAINED REGARDING THESE REQUIREMENTS AND TO MAINTAIN RECORDS OF THE INSTALLATION, MODIFICATION, INSPECTION, AND MAINTENANCE OF STORM WATER POLLUTION PREVENTION MEASURES INCLUDING, BUT NOT LIMITED TO: TRAINING, INSPECTION, MAINTENANCE LOG; RECORD DRAWINGS SHOWING LOCATIONS, LIMITS, AND DATES OF INSTALLATION FOR VARIOUS MEASURES; DATED PHOTOGRAPHERS AND FIELD SKETCHES.

4. THE CONTRACTOR SHALL BE FAMILIAR WITH AND AGREE TO IMPLEMENT THE MEASURES AND INSTALLATIONS DEPICTED ON THE PROJECT STORM WATER POLLUTION PREVENTION PLAN INCLUDING INSTALLATION, ROUTINE INSPECTION AND MAINTENANCE, ADJUSTMENTS AND EXPANSION DUE TO EVOLVING SITE CONDITIONS, EMERGENCY MAINTENANCE AND ADJUSTMENTS DUE TO ACTUAL STORM AND SITE CONDITIONS, AND DOCUMENTATION.

SHEET INDEX

SHEET NO.	GENERAL DESCRIPTION
1	C-1.0 CIVIL TITLE SHEET
2	C-2.0 SITE IMPROVEMENT PLAN-CLASSROOMS
3	C-2.1 SITE IMPROVEMENT PLAN-RESTROOMS
4	C-3.0 SITE SECTIONS - RESTROOMS
5	C-4.0 UTILITY PLAN - CLASSROOMS
6	C-4.1 UTILITY PLAN - RESTROOMS
7	C-5.0 CONSTRUCTION DETAILS
8	C-5.1 CONSTRUCTION DETAILS
9	C-6.0 EROSION CONTROL PLAN & DETAILS

IMPORTANT NOTICE

ALL UTILITY LOCATIONS ARE APPROXIMATE. CONTRACTOR IS TO NOTIFY UNDERGROUND SERVICE ALERT TWO WORKING DAYS PRIOR TO STARTING ANY EXCAVATION OR RESURFACING.

811

Know what's **below.**
Call before you dig.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125456 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026

SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT

SAN LUIS OBISPO HIGH SCHOOL
1499 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401

NEW CLASSROOM BUILDING

& RESTROOM RELOCATION OF MODULAR RESTROOM

F&A 115 W. Canon Perdido St. Santa Barbara, CA 93101
FLOWERS & ASSOCIATES, INC.

KBZ
KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELLAGA STREET SANTA BARBARA CA 93101
TELEPHONE (805) 963-1726 FAX (805) 963-2951

JOE S. WILCOX, AIA
PRINCIPAL-IN-CHARGE

MAT GRADIAS, AIA
PROJECT MANAGER

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ARCHITECT'S STAMP & SIGNATURE

LICENSED ARCHITECT JOE S. WILCOX No. 18808 Ren. 2/27 STATE OF CALIFORNIA

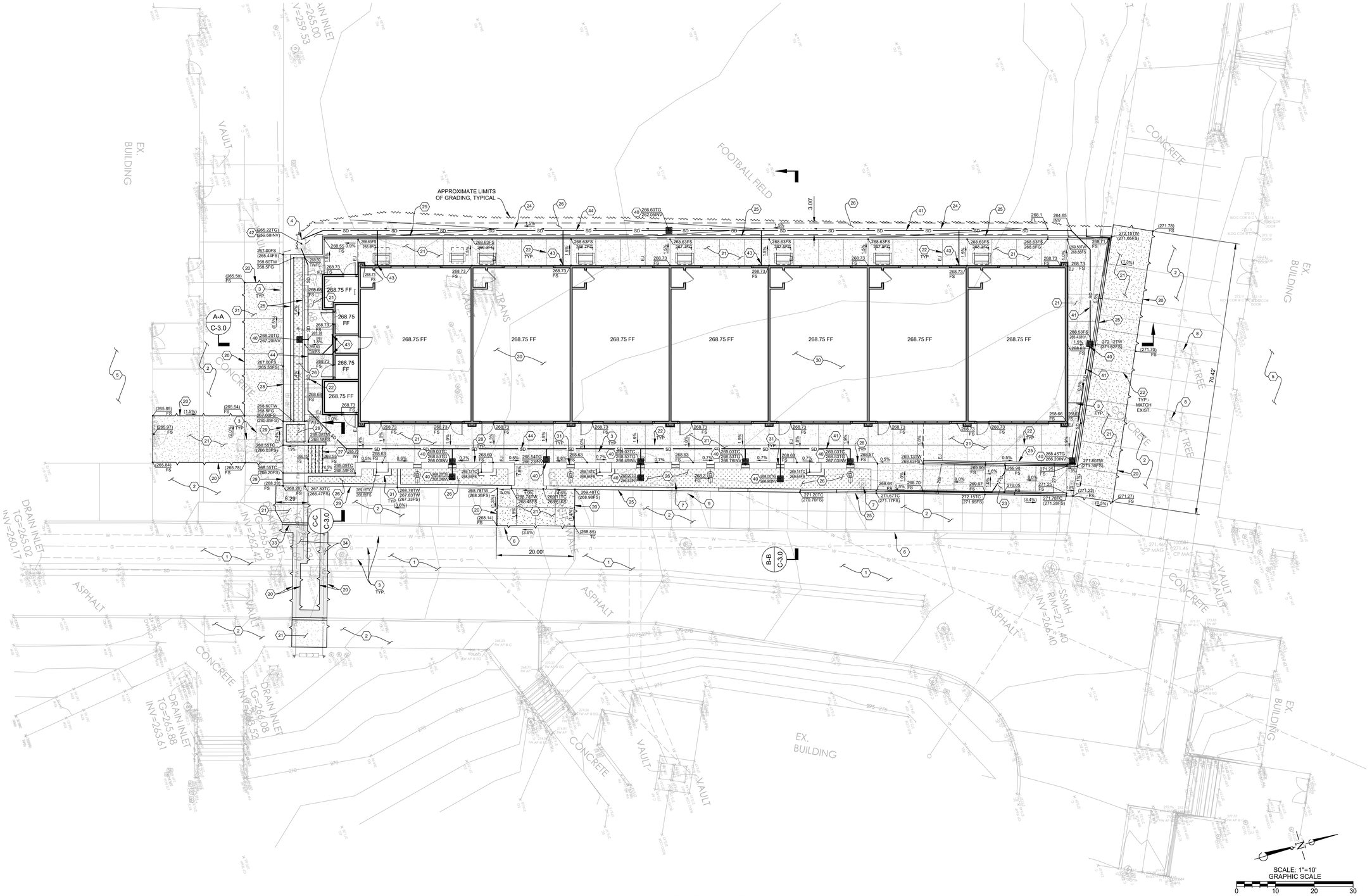
ENGINEER'S STAMP & SIGNATURE

REGISTERED PROFESSIONAL ENGINEER ROBERT A. SCHMITZ No. 71335 CIVIL STATE OF CALIFORNIA Ren. 12/27

CONSULTANT INFORMATION

REVISION	DESCRIPTION	DATE	BY
5			
4			
3			
2			
1			

DRAWN	CY
CHECKED	RS
DATE	06/01/26
JOB. NO.	24010
SHEET TITLE	CIVIL TITLE SHEET
SHEET	C-1.0



GENERAL CONSTRUCTION NOTES THIS SHEET:

A. REFER TO LEGEND, LIST OF SYMBOLS AND OTHER PLAN USE INFORMATION ON SHEET G-1.

B. SEE ARCHITECT'S SHEETS A-100 AND A-101 FOR DEMOLITION PLANS.

C. REFER TO SEPARATELY BOUND SPECIFICATIONS FOR ADDITIONAL CONSTRUCTION INFORMATION AND REQUIREMENTS.

D. REFERENCE LANDSCAPE ARCHITECT'S PLANS FOR ALL HARDSCAPE COLORS AND FINISHES.

E. PROTECT ALL EXISTING UTILITY VAULTS, ELECTRICAL PANELS, PULL BOXES AND APPURTENANCES UNLESS SPECIFICALLY CALLED OUT ON PLANS. RAISE LIDS TO PROPOSED GRADE AS NECESSARY. SEE PLUMBING PLANS FOR DETAILS. NOTIFY UNDERGROUND SERVICE ALERT AT LEAST 2 WORKING DAYS IN ADVANCE OF BEGINNING EXCAVATION AT 1-800-422-4133.

F. EXISTING BURIED CONDUITS, PIPES AND/OR STRUCTURES KNOWN TO THE ENGINEER ARE SHOWN ON THE DRAWINGS BASED ON RECORD DRAWING INFORMATION OR INPUT FROM OTHERS. THE LOCATIONS OF THOSE SHOWN ARE APPROXIMATE (SCHEMATIC) ONLY AND, MOST LIKELY, OTHERS EXISTING WHICH HAVE NOT BEEN SHOWN. BEFORE ORDERING MATERIALS FOR, OR BEGINNING WORK ON PROPOSED BURIED CONDUITS AND PIPING, EXCAVATE TO LOCATE AND EXPOSE EXISTING FACILITY TO BE JOINED. DETERMINE PRECISE INVERT ELEVATION AT PROPOSED POINT OF CONNECTION AND RECORD MATERIAL TYPE AND DIMENSIONS AND PROVIDE INFORMATION TO ENGINEER FOR REVIEW AND FOR ESTABLISHING GRADE LINE FOR SEWER AND STORM DRAIN BEFORE WORK IS COMMENCED. ALLOW FIVE (5) WORKING DAYS FOR REVIEW.

G. IF SCHOOL-OWNED ELECTRICAL CONDUITS ARE SUSPECTED OF BEING IN THE WORK AREA BUT CANNOT BE LOCATED, ATTEMP TO HAVE SCHOOL OPERATIONS / MAINTENANCE STAFF SHUT OFF POWER TO THOSE CONDUITS DURING EXCAVATION. TIMING AND DURATION OF SHUT-OFFS MUST BE APPROVED IN ADVANCE BY SCHOOL ADMINISTRATION SO AS NOT TO ADVERSELY IMPACT SCHOOL AND EXTRA CURRICULAR ACTIVITIES.

H. RETAIN A LICENSED LAND SURVEYOR TO STAKE HORIZONTAL AND VERTICAL CONTROL FOR LAYOUT OF THE WORK, FOR SURVEYING LOCATIONS OF EXISTING BURIED PIPELINES, CONDUITS AND STRUCTURES AND FOR GRADE CONFIRMATION WHERE REQUIRED DURING CONSTRUCTION. CONFIRM CONTROL DATA WITH TOPOGRAPHIC MAPPING SURVEYOR (SIMPSON LAND SURVEYING COMPANY) PRIOR TO STAKING WORK. IN ADDITION, CHECK STAKING AT KEY LOCATIONS BY SCALING DISTANCES AND TAPING FROM EXISTING FEATURES SHOWN ON PLAN.

I. FOR CONCRETE PAVEMENTS, WALKWAYS, CURBS, GUTTERS AND WALLS, LAY OUT EXPANSION AND CONTROL JOINTS PER DRAWINGS AND SPECIFICATIONS AND MARK JOINT LOCATIONS ON FORMS FOR REVIEW BY OWNER'S CONSTRUCTION REPRESENTATIVE PRIOR TO ORDERING CONCRETE.

J. WHETHER OR NOT SPECIFICALLY CALLED FOR ON THE DRAWINGS, PROTECT FROM DAMAGE ALL EXISTING FEATURES WITHIN AND IN THE VICINITY OF THE WORK AREA WHICH ARE NOT TO BE ALTERED BY PROPOSED WORK:

1. DOCUMENT THE EXISTING CONDITION AND PROVIDE SUCH DOCUMENTATION TO OWNER'S CONSTRUCTION REPRESENTATIVE PRIOR TO BEGINNING WORK.
2. PROTECT DURING CONSTRUCTION FROM PHYSICAL AND ESTHETIC DAMAGE INCLUDING CRACKING, SCRAPING, DEFORMING, SOILING, AND SPATTER FROM PAINT, CONCRETE OR ASPHALT EMULSION.
3. RESTORE TO PRE-CONSTRUCTION CONDITION AND APPEARANCE TO SATISFACTION OF DISTRICT AT NO ADDITIONAL COST TO DISTRICT.

IMPORTANT NOTICE

ALL UTILITY LOCATIONS ARE APPROXIMATE CONTRACTOR IS TO NOTIFY UNDERGROUND SERVICE ALERT TWO WORKING DAYS PRIOR TO STARTING ANY EXCAVATION OR RESURFACING.

CALL TOLL FREE 1-800-422-4133

SPECIFIC CONSTRUCTION NOTES THIS SHEET:

(NUMBERED ITEM BELOW CORRESPONDS TO NUMBER WITHIN HEXAGON ON DRAWING)

PROTECTIONS / REMOVALS:

1 PROTECT EXISTING AC PAVEMENT TO REMAIN.

2 PROTECT EXISTING CONCRETE PAVEMENT TO REMAIN.

3 PROTECT EXISTING UTILITIES AND / OR PULL BOXES TO REMAIN. LIDS TO BE RAISED TO PROPOSED FINISHED GRADE AS NECESSARY. POTHOLE TO VERIFY LOCATION.

4 PROTECT EXISTING STORM DRAIN PIPE AND/OR CATCH BASIN. CLEAR CLOGGED DRAINS AS NECESSARY.

5 PROTECT EXISTING STRUCTURE TO REMAIN.

6 PROTECT EXISTING CONCRETE CURB AND/OR GUTTER TO REMAIN.

7 EXISTING LIGHT POLE TO BE RELOCATED.

8 PROTECT EXISTING TREES TO REMAIN.

9 PROTECT EXISTING FIRE HYDRANT TO REMAIN.

10-19 NOT USED.

SITE IMPROVEMENTS:

20 CONSTRUCT SAWCUT LINE WHERE SHOWN ON PLAN AND PER DETAIL 1 / C-5.0. PROTECT EXISTING EDGE OF A.C. OR CONCRETE PAVEMENT IMPROVEMENT TO REMAIN UNTIL CONSTRUCTION OF CONFORMING IMPROVEMENTS (TYPICAL).

21 CONSTRUCT CONCRETE WALKWAY PER DETAIL 2 / C-5.0. COLOR AND FINISH PER ARCHITECT'S PLAN.

22 CONSTRUCT JOINTS IN CONCRETE WALKWAY SURFACING PER DETAIL 3 / C-5.0, WHERE SHOWN ON PLAN. ALL JOINTS SHOWN ARE CONSTRUCTION OR CONTROL JOINTS UNLESS DESIGNATED EXPANSION JOINT (EJ). CONTRACTOR TO PROVIDE EJ LAYOUT PRIOR TO FORMWORK FOR APPROVAL.

23 CONSTRUCT CONCRETE RAMP TO ELEVATIONS SHOWN ON PLAN AND PER DETAIL 2 / C-5.0. SEE ARCHITECT'S PLANS FOR HANDRAIL SPECIFICATIONS.

24 CONSTRUCT GRADED EARTHEN SWALE TO ELEVATIONS ON PLAN AND PER DETAIL 7 / C-5.0.

25 CONSTRUCT RETAINING WALL, WITH GUARDRAIL WHERE REQUIRED, TO ELEVATIONS SHOWN ON PLAN AND PER STRUCTURAL ENGINEER'S PLANS AND SPECIFICATIONS.

26 GRADE UNPAVED AREAS WITHIN LIMITS OF DISTURBANCE TO FINISH GRADES, FLOWLINES AND CONTOURS PER PLAN AND TO PROVIDE SMOOTH TRANSITION BETWEEN NEW AND EXISTING IMPROVEMENTS. SEE LANDSCAPE PLANS FOR PLANTING PLAN.

27 CONSTRUCT CONCRETE STAIRS WITH HANDRAILS TO ELEVATIONS SHOWN ON PLAN AND PER ARCHITECT'S DETAIL.

28 CONSTRUCT CONCRETE BENCH PER ARCHITECT'S PLANS AND SPECIFICATIONS.

29 CONSTRUCT CONCRETE PLANTER TO ELEVATIONS SHOWN ON PLAN AND PER ARCHITECT'S PLANS AND SPECIFICATIONS.

30 CONSTRUCT CLASSROOM STRUCTURE PER ARCHITECT'S PLANS AND SPECIFICATIONS.

31 CONSTRUCT 6" CONCRETE CURB PER DETAIL 11 / C-5.0.

32 NOT USED.

33 CONSTRUCT 6" CONCRETE CURB TO ELEVATIONS SHOWN ON PLAN AND PER DETAIL 6 / C-5.0.

34 CONSTRUCT ASPHALT PAVEMENT TO MATCH EXISTING AND PER DETAIL 4 / C-5.0.

35-39 NOT USED.

40 CONSTRUCT 12"X12" PRECAST CATCH BASIN TO ELEVATIONS SHOWN ON PLAN AND PER DETAIL 12 / C-5.1.

41 CONSTRUCT 4" HDPE STORM DRAIN LINE WITH MINIMUM 0.5% SLOPE IN TRENCH PER DETAIL 13 / C-5.1.

42 CONSTRUCT CONNECTION TO EXISTING STORM DRAIN CATCH BASIN WITH FITTINGS AS NECESSARY. VERIFY EXISTING CONNECTION INVERT ELEVATIONS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY CONFLICTS.

43 CONSTRUCT ROOF DRAIN CONNECTION TO STORM DRAIN PER DETAIL 14 / C-5.1.

44 CONSTRUCT 6" HDPE STORM DRAIN LINE WITH MINIMUM 0.5% SLOPE IN TRENCH PER DETAIL 13 / C-5.1.

IDENTIFICATION STAMP
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APP: 03-125456 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026

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SAN LUIS OBISPO HIGH SCHOOL
NEW CLASSROOM BUILDING
& RELOCATION OF MODULAR RESTROOM

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JOE S. WILCOX, AIA
PRINCIPAL-IN-CHARGE

MAT GRADIAS, AIA
PROJECT MANAGER

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ENGINEERS STAMP & SIGNATURE

REGISTERED PROFESSIONAL ENGINEER ROBERT A. SCANTLIN No. 71335 CIVIL STATE OF CALIFORNIA Ren. 12/27

CONSULTANT INFORMATION

REVISION	DESCRIPTION	DATE	BY
5			
4			
3			
2			
1			

DRAWN	CY
CHECKED	RS
DATE	06/01/26
JOB. NO.	24010
SHEET TITLE	SITE IMPROVEMENT PLAN
SHEET	C-2.0



GENERAL CONSTRUCTION NOTES THIS SHEET:

A. REFER TO LEGEND, LIST OF SYMBOLS AND OTHER PLAN USE INFORMATION ON SHEET G-1.

B. SEE ARCHITECT'S SHEETS A-100 AND A-101 FOR DEMOLITION PLANS.

C. REFER TO SEPARATELY BOUND SPECIFICATIONS FOR ADDITIONAL CONSTRUCTION INFORMATION AND REQUIREMENTS.

D. REFERENCE LANDSCAPE ARCHITECT'S PLANS FOR ALL HARDSCAPE COLORS AND FINISHES.

E. PROTECT ALL EXISTING UTILITY VAULTS, ELECTRICAL PANELS, PULL BOXES AND APPURTENANCES UNLESS SPECIFICALLY CALLED OUT ON PLANS. RAISE LIDS TO PROPOSED GRADE AS NECESSARY. SEE PLUMBING PLANS FOR DETAILS. NOTIFY UNDERGROUND SERVICE ALERT AT LEAST 2 WORKING DAYS IN ADVANCE OF BEGINNING EXCAVATION AT 1-800-422-4133.

F. EXISTING BURIED CONDUITS, PIPES AND/OR STRUCTURES KNOWN TO THE ENGINEER ARE SHOWN ON THE DRAWINGS BASED ON RECORD DRAWING INFORMATION OR INPUT FROM OTHERS. THE LOCATIONS OF THOSE SHOWN ARE APPROXIMATE (SCHEMATIC) ONLY AND, MOST LIKELY, OTHERS EXISTING WHICH HAVE NOT BEEN SHOWN. BEFORE ORDERING MATERIALS FOR, OR BEGINNING WORK ON PROPOSED BURIED CONDUITS AND PIPING, EXCAVATE TO LOCATE AND EXPOSE EXISTING FACILITY TO BE JOINED. DETERMINE PRECISE INVERT ELEVATION AT PROPOSED POINT OF CONNECTION AND RECORD MATERIAL TYPE AND DIMENSIONS AND PROVIDE INFORMATION TO ENGINEER FOR REVIEW AND FOR ESTABLISHING GRADE LINE FOR SEWER AND STORM DRAIN BEFORE WORK IS COMMENCED. ALLOW FIVE (5) WORKING DAYS FOR REVIEW.

G. IF SCHOOL-OWNED ELECTRICAL CONDUITS ARE SUSPECTED OF BEING IN THE WORK AREA BUT CANNOT BE LOCATED, ATTEMP TO HAVE SCHOOL OPERATIONS / MAINTENANCE STAFF SHUT OFF POWER TO THOSE CONDUITS DURING EXCAVATION. TIMING AND DURATION OF SHUT-OFFS MUST BE APPROVED IN ADVANCE BY SCHOOL ADMINISTRATION SO AS NOT TO ADVERSELY IMPACT SCHOOL AND EXTRA CURRICULAR ACTIVITIES.

H. RETAIN A LICENSED LAND SURVEYOR TO STAKE HORIZONTAL AND VERTICAL CONTROL FOR LAYOUT OF THE WORK. FOR SURVEYING LOCATIONS OF EXISTING BURIED PIPELINES, CONDUITS AND STRUCTURES AND FOR GRADE CONFIRMATION WHERE REQUIRED DURING CONSTRUCTION. CONFIRM CONTROL DATA WITH TOPOGRAPHIC MAPPING SURVEYOR (SIMPSON LAND SURVEYING COMPANY) PRIOR TO STAKING WORK. IN ADDITION, CHECK STAKING AT KEY LOCATIONS BY SCALING DISTANCES AND TAPING FROM EXISTING FEATURES SHOWN ON PLAN.

I. FOR CONCRETE PAVEMENTS, WALKWAYS, CURBS, GUTTERS AND WALLS, LAY OUT EXPANSION AND CONTROL JOINTS PER DRAWINGS AND SPECIFICATIONS AND MARK JOINT LOCATIONS ON FORMS FOR REVIEW BY OWNER'S CONSTRUCTION REPRESENTATIVE PRIOR TO ORDERING CONCRETE.

J. WHETHER OR NOT SPECIFICALLY CALLED FOR ON THE DRAWINGS, PROTECT FROM DAMAGE ALL EXISTING FEATURES WITHIN AND IN THE VICINITY OF THE WORK AREA WHICH ARE NOT TO BE ALTERED BY PROPOSED WORK:

1. DOCUMENT THE EXISTING CONDITION AND PROVIDE SUCH DOCUMENTATION TO OWNER'S CONSTRUCTION REPRESENTATIVE PRIOR TO BEGINNING WORK.
2. PROTECT DURING CONSTRUCTION FROM PHYSICAL AND ESTHETIC DAMAGE INCLUDING CRACKING, SCRAPING, DEFORMING, SOILING, AND SPATTER FROM PAINT, CONCRETE OR ASPHALT EMULSION.
3. RESTORE TO PRE-CONSTRUCTION CONDITION AND APPEARANCE TO SATISFACTION OF DISTRICT AT NO ADDITIONAL COST TO DISTRICT.

SPECIFIC CONSTRUCTION NOTES THIS SHEET:

(NUMBERED ITEM BELOW CORRESPONDS TO NUMBER WITHIN HEXAGON ON DRAWING)

PROTECTIONS / REMOVALS:

1 PROTECT EXISTING FENCE AND / OR GATE TO REMAIN.

2 PROTECT EXISTING AC PAVEMENT TO REMAIN.

3 PROTECT EXISTING CONCRETE PAVEMENT TO REMAIN.

4 PROTECT EXISTING UTILITIES AND / OR PULL BOXES TO REMAIN. LIDS TO BE RAISED TO PROPOSED FINISHED GRADE AS NECESSARY.

5 PROTECT EXISTING STORM DRAIN PIPE AND/OR CATCH BASIN. CLEAR CLOGGED DRAINS AS NECESSARY.

6 PROTECT EXISTING STRUCTURE TO REMAIN.

7 PROTECT EXISTING WALL TO REMAIN.

8 PROTECT EXISTING CONCRETE CURB AND/OR GUTTER TO REMAIN.

9 PROTECT EXISTING LIGHT POLE AND FOUNDATION TO REMAIN.

10 PROTECT EXISTING SHED TO REMAIN.

11 PROTECT EXISTING TREE(S) TO REMAIN.

12 REMOVE EXISTING CONCRETE OR A.C. PAVEMENT FROM AREA TO BE IMPROVED AND DISPOSE OF RUBBLE OFFSITE.

13 REMOVE PORTION OF EXISTING RETAINING WALL AS SHOWN ON PLAN TO ALLOW FOR PROPOSED RETAINING WALL EXTENSION.

14-19 NOT USED.

SITE IMPROVEMENTS:

20 CONSTRUCT SAWCUT LINE WHERE SHOWN ON PLAN AND PER DETAIL 1 / C-5.0. PROTECT EXISTING EDGE OF A.C. OR CONCRETE PAVEMENT IMPROVEMENT TO REMAIN UNTIL CONSTRUCTION OF CONFORMING IMPROVEMENTS (TYPICAL).

21 CONSTRUCT CONCRETE WALKWAY PER DETAIL 2 / C-5.0. COLOR AND FINISH PER ARCHITECT'S PLAN.

22 CONSTRUCT JOINTS IN CONCRETE WALKWAY SURFACING PER DETAIL 3 / C-5.0, WHERE SHOWN ON PLAN. ALL JOINTS SHOWN ARE CONSTRUCTION OR CONTROL JOINTS UNLESS DESIGNATED EXPANSION JOINT (EJ). CONTRACTOR TO PROVIDE EJ LAYOUT PRIOR TO FORMWORK FOR APPROVAL.

23 CONSTRUCT ASPHALT PAVEMENT TO MATCH EXISTING AND PER DETAIL 4 / C-5.0.

24 CONSTRUCT RETAINING WALL PER STRUCTURAL ENGINEER'S PLANS AND SEPCIFICATIONS WITH GUARDRAIL PER ARCHITECT'S PLANS.

25 CONSTRUCT CONCRETE 6" CURB TO ELEVATIONS SHOWN ON PLAN AND PER DETAIL 6 / C-5.0.

26 CONSTRUCT CONCRETE RAMP MODIFICATIONS PER DETAIL 2 / C-5.0. REMOVE EXISTING CONCRETE AS NECESSARY TO CONSTRUCT RAMP TO ELEVATIONS SHOWN ON PLAN. PROTECT EXISTING WALLS AND FOOTINGS. SEE ARCHITECT'S PLANS FOR HANDRAIL SPECIFICATIONS.

27 CONSTRUCT RETAINING WALL EXTENSION TO ELEVATIONS SHOWN ON PLAN AND PER STRUCTURAL ENGINEER'S PLANS AND SPECIFICATIONS.

28 GRADE UNPAVED AREAS WITHIN LIMITS OF DISTURBANCE TO FINISH GRADES, FLOWLINES AND CONTOURS PER PLAN AND TO PROVIDE SMOOTH TRANSITION BETWEEN NEW AND EXISTING IMPROVEMENTS. SEE LANDSCAPE PLANS FOR PLANTING PLAN.

29 CONSTRUCT FENCE AND / OR GATE PER ARCHITECT'S PLANS AND SPECIFICATIONS.

30 CONSTRUCT TYPICAL ACCESSIBLE PARKING STALL PAVEMENT MARKINGS AND STRIPING AS SHOWN ON PLAN AND PER DETAILS 8 & 9 / C-5.0.

31 RELOCATE EXISTING MODULAR RESTROOM STRUCTURE TO LOCATION SHOWN ON PLAN AND PER ARCHITECT'S PLANS AND SPECIFICATIONS. CONSTRUCT FOUNDATION AND VENTS PER STRUCTURAL ENGINEER'S PLANS AND DETAILS.

32 REMOVE AND REPLACE EXISTING ASPHALT BERM IN PLACE WITH PIPE OUTLET AS SHOWN ON PLAN.

33 CONSTRUCT CURB RAMP AS SHOWN ON PLAN AND PER DETAIL 19 / C5.1.

34 CONSTRUCT 3' WIDE DETECTABLE WARNING PAVERS PER SPECIFICATIONS AND DETAIL 20 / C-5.1.

35-39 NOT USED.

40 CONSTRUCT 12"X12" CAST-IN-PLACE CATCH BASIN TO ELEVATIONS SHOWN ON PLAN AND PER DETAIL 12 / C-5.1.

41 CONSTRUCT 4" HDPE STORM DRAIN LINE WITH MINIMUM 0.5% SLOPE IN TRENCH PER DETAIL 13 / C-5.1.

42 CONSTRUCT RAT SLAB PER MANUFACTURER'S SPECIFICATIONS WITH 0.5% MINIMUM SLOPE TO DRAIN.

43 CONSTRUCT ROOF DRAIN CONNECTION TO STORM DRAIN PER DETAIL 14 / C-5.1.

IMPORTANT NOTICE

ALL UTILITY LOCATIONS ARE APPROXIMATE CONTRACTOR IS TO NOTIFY UNDERGROUND SERVICE ALERT TWO WORKING DAYS PRIOR TO STARTING ANY EXCAVATION OR RESURFACING.

CALL TOLL FREE 1-800-422-4133

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REVIEWED FOR
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DATE: 07/01/2026

SAN LUIS OBISPO HIGH SCHOOL
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REGISTERED PROFESSIONAL ENGINEER ROBERT A. SCHULTZ No. 71335 CIVIL STATE OF CALIFORNIA Ren. 12/27

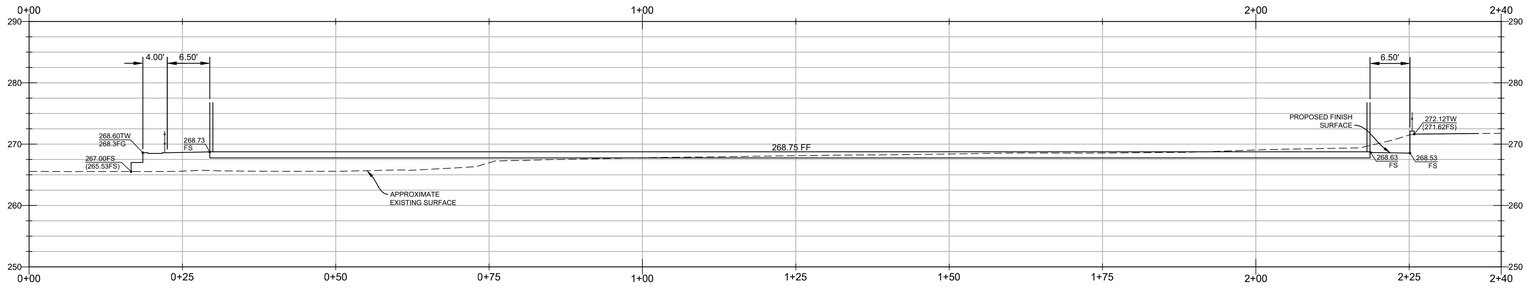
CONSULTANT INFORMATION

REVISION	DESCRIPTION	DATE	BY
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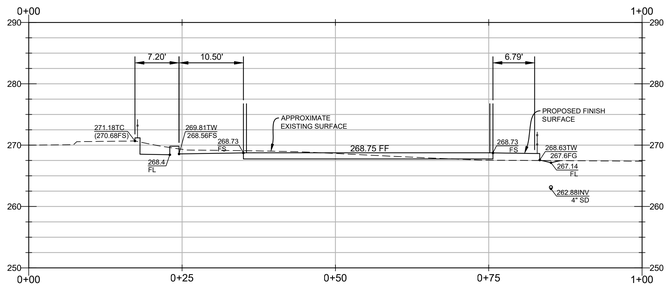
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DATE 06/01/26
JOB. NO. 24010

SHEET TITLE: SITE IMPROVEMENT PLAN

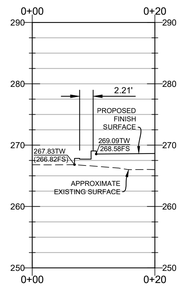
SHEET: C-2.1



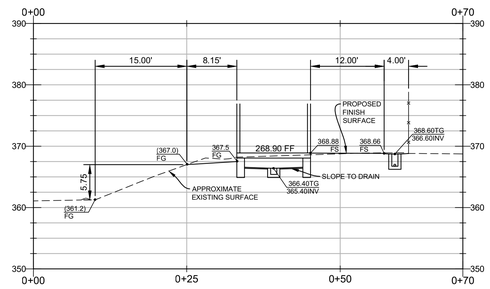
SECTION A-A
SCALE: 1" = 10' HORIZ. & VERT.



SECTION B-B
SCALE: 1" = 10' HORIZ. & VERT.



SECTION C-C
SCALE: 1" = 10' HORIZ. & VERT.



SECTION D-D
SCALE: 1" = 10' HORIZ. & VERT.

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REGISTERED PROFESSIONAL ENGINEER ROBERT A. SCHMITZ No. 71335 C/V/L STATE OF CALIFORNIA Ren. 12/27

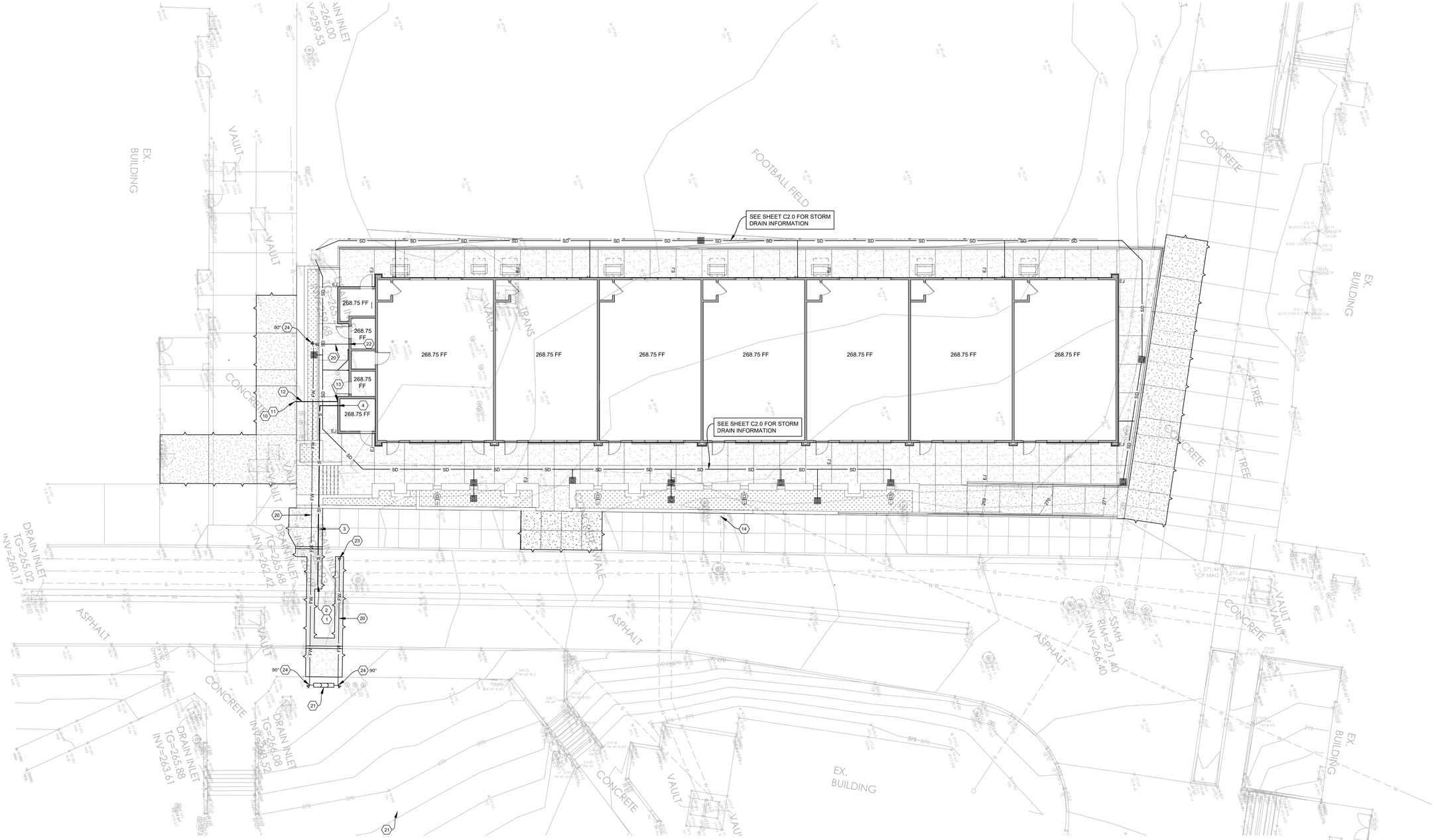
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DRAWN CY
CHECKED RS
DATE 06/01/26
JOB. NO. 24010

SHEET TITLE SITE SECTIONS

SHEET C-3.0



GENERAL CONSTRUCTION NOTES THIS SHEET:

A. REFER TO LEGEND, LIST OF SYMBOLS AND OTHER PLAN USE INFORMATION ON SHEET G-1.

B. SEE ARCHITECT'S SHEETS A-100 AND A-101 FOR DEMOLITION PLANS.

C. REFER TO SEPARATELY BOUND SPECIFICATIONS FOR ADDITIONAL CONSTRUCTION INFORMATION AND REQUIREMENTS.

D. REFERENCE LANDSCAPE ARCHITECT'S PLANS FOR ALL HARDSCAPE COLORS AND FINISHES.

E. PROTECT ALL EXISTING UTILITY VAULTS, ELECTRICAL PANELS, PULL BOXES AND APPURTENANCES UNLESS SPECIFICALLY CALLED OUT ON PLANS. RAISE LIDS TO PROPOSED GRADE AS NECESSARY. SEE PLUMBING PLANS FOR DETAILS. NOTIFY UNDERGROUND SERVICE ALERT AT LEAST 2 WORKING DAYS IN ADVANCE OF BEGINNING EXCAVATION AT 1-800-422-4133.

F. EXISTING BURIED CONDUITS, PIPES AND/OR STRUCTURES KNOWN TO THE ENGINEER ARE SHOWN ON THE DRAWINGS BASED ON RECORD DRAWING INFORMATION OR INPUT FROM OTHERS. THE LOCATIONS OF THOSE SHOWN ARE APPROXIMATE (SCHEMATIC) ONLY AND, MOST LIKELY, OTHERS EXISTING WHICH HAVE NOT BEEN SHOWN. BEFORE ORDERING MATERIALS FOR, OR BEGINNING WORK ON PROPOSED BURIED CONDUITS AND PIPING, EXCAVATE TO LOCATE AND EXPOSE EXISTING FACILITY TO BE JOINED. DETERMINE PRECISE INVERT ELEVATION AT PROPOSED POINT OF CONNECTION AND RECORD MATERIAL TYPE AND DIMENSIONS AND PROVIDE INFORMATION TO ENGINEER FOR REVIEW AND FOR ESTABLISHING GRADE LINE FOR SEWER AND STORM DRAIN BEFORE WORK IS COMMENCED. ALLOW FIVE (5) WORKING DAYS FOR REVIEW.

G. IF SCHOOL-OWNED ELECTRICAL CONDUITS ARE SUSPECTED OF BEING IN THE WORK AREA BUT CANNOT BE LOCATED, ATTEMP TO HAVE SCHOOL OPERATIONS / MAINTENANCE STAFF SHUT OFF POWER TO THOSE CONDUITS DURING EXCAVATION. TIMING AND DURATION OF SHUT-OFFS MUST BE APPROVED IN ADVANCE BY SCHOOL ADMINISTRATION SO AS NOT TO ADVERSELY IMPACT SCHOOL AND EXTRA CURRICULAR ACTIVITIES.

H. RETAIN A LICENSED LAND SURVEYOR TO STAKE HORIZONTAL AND VERTICAL CONTROL FOR LAYOUT OF THE WORK, FOR SURVEYING LOCATIONS OF EXISTING BURIED PIPELINES, CONDUITS AND STRUCTURES AND FOR GRADE CONFIRMATION WHERE REQUIRED DURING CONSTRUCTION. CONFIRM CONTROL DATA WITH TOPOGRAPHIC MAPPING SURVEYOR (SIMPSON LAND SURVEYING COMPANY) PRIOR TO STAKING WORK. IN ADDITION, CHECK STAKING AT KEY LOCATIONS BY SCALING DISTANCES AND TAPING FROM EXISTING FEATURES SHOWN ON PLAN.

I. FOR CONCRETE PAVEMENTS, WALKWAYS, CURBS, GUTTERS AND WALLS, LAY OUT EXPANSION AND CONTROL JOINTS PER DRAWINGS AND SPECIFICATIONS AND MARK JOINT LOCATIONS ON FORMS FOR REVIEW BY OWNER'S CONSTRUCTION REPRESENTATIVE PRIOR TO ORDERING CONCRETE.

J. WHETHER OR NOT SPECIFICALLY CALLED FOR ON THE DRAWINGS, PROTECT FROM DAMAGE ALL EXISTING FEATURES WITHIN AND IN THE VICINITY OF THE WORK AREA WHICH ARE NOT TO BE ALTERED BY PROPOSED WORK:

1. DOCUMENT THE EXISTING CONDITION AND PROVIDE SUCH DOCUMENTATION TO OWNER'S CONSTRUCTION REPRESENTATIVE PRIOR TO BEGINNING WORK.
2. PROTECT DURING CONSTRUCTION FROM PHYSICAL AND ESTHETIC DAMAGE INCLUDING CRACKING, SCRAPING, DEFORMING, SOILING, AND SPATTER FROM PAINT, CONCRETE OR ASPHALT EMULSION.
3. RESTORE TO PRE-CONSTRUCTION CONDITION AND APPEARANCE TO SATISFACTION OF DISTRICT AT NO ADDITIONAL COST TO DISTRICT.

K. ALL BURIED FERROUS PIPE AND FITTINGS SHALL BE TAPE WRAPPED PER SPECIFICATIONS.

SPECIFIC CONSTRUCTION NOTES THIS SHEET:

(NUMBERED ITEM BELOW CORRESPONDS TO NUMBER WITHIN HEXAGON ON DRAWING)

SEWER:

1 PROTECT EXISTING SEWER LINE TO REMAIN.

2 CONNECT TO EXISTING SEWER LINE WITH FITTINGS AS NECESSARY. POTHOLE AND VERIFY PIPE INVERT PRIOR TO INSTALLATION. PROVIDE INFORMATION TO ENGINEER AND NOTIFY ENGINEER OF ANY CONFLICTS.

3 CONSTRUCT 3" SDR SEWER LATERAL WITH MINIMUM 1.0% MIN. SLOPE IN TRENCH PER DETAIL 12 / CD-2.

4 CONSTRUCT SEWER CONNECTION TO BUILDING PER PLUMBING PLANS.

5-9 NOT USED.

WATER:

10 EXISTING WATER LINE TO BE PROTECTED IN PLACE.

11 CONSTRUCT CONNECTION TO EXISTING WATER LINE WITH FITTINGS AS NECESSARY. POTHOLE AND VERIFY PIPE INVERT PRIOR TO INSTALLATION. PROVIDE INFORMATION TO ENGINEER AND NOTIFY ENGINEER OF ANY CONFLICTS. ALL BURIED FERROUS PIPE AND FITTINGS SHALL BE TAPE WRAPPED PER SPECIFICATIONS.

12 CONSTRUCT 1.5" PVC WATER LINE IN TRENCH PER DETAIL 15 / C-5.1.

13 CONSTRUCT WATER CONNECTION TO BUILDING PER PLUMBING PLANS.

14 PROTECT EXISTING FIRE HYDRANT TO REMAIN.

15-19

FIRE WATER:

20 CONSTRUCT 6" PVC C900 (DR 14, CL 305) FIRE WATER LINE IN TRENCH PER DETAIL 15 / C-5.1.

21 CONSTRUCT 6" DCDA WITH FDC CONNECTION PER DETAIL 16 / C-5.1. INSTALL ASSEMBLY ENCLOSURE CAGE PER SPECIFICATIONS.

22 CONSTRUCT FIRE WATER CONNECTION TO BUILDING PER FIRE PROTECTION PLANS.

23 CONSTRUCT LATERAL WITH TEE FITTING AND THRUST BLOCK PER DETAIL 17 / C-5.1. PROTECT EXISTING WATER LINE.

24 CONSTRUCT PIPE BEND FITTING WITH THRUST BLOCK AS SHOWN ON PLAN AND PER DETAIL 17 / C-5.1.

STORM DRAIN:
SEE SHEET C-2.0 FOR ALL STORM DRAIN INFORMATION.

IMPORTANT NOTICE

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ARCHITECT'S STAMP & SIGNATURE

LICENSED ARCHITECT JOE S. WILCOX No. C-9808 Ren. 8/27 STATE OF CALIFORNIA

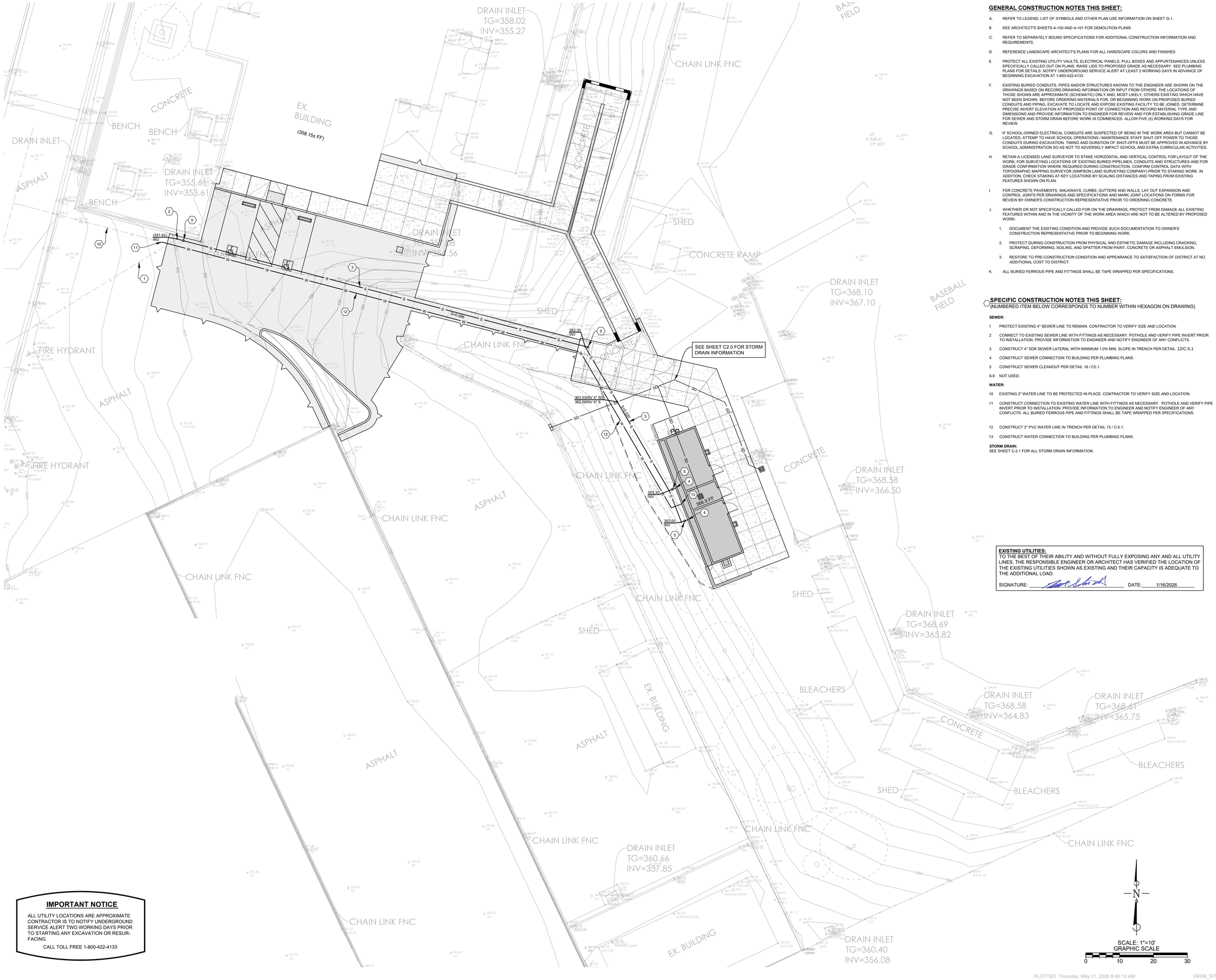
ENGINEER'S STAMP & SIGNATURE

REGISTERED PROFESSIONAL ENGINEER ROBERT A. SCHMIDT No. 71335 CIVIL STATE OF CALIFORNIA Ren. 12/27

CONSULTANT INFORMATION

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REVISION	DESCRIPTION	DATE	BY

DRAWN	CY
CHECKED	RS
DATE	06/01/26
JOB. NO.	24010
SHEET TITLE	UTILITY PLAN
SHEET	C-4.0



GENERAL CONSTRUCTION NOTES THIS SHEET:

A. REFER TO LEGEND, LIST OF SYMBOLS AND OTHER PLAN USE INFORMATION ON SHEET G-1.

B. SEE ARCHITECT'S SHEETS A-100 AND A-101 FOR DEMOLITION PLANS.

C. REFER TO SEPARATELY BOUND SPECIFICATIONS FOR ADDITIONAL CONSTRUCTION INFORMATION AND REQUIREMENTS.

D. REFERENCE LANDSCAPE ARCHITECT'S PLANS FOR ALL HARDSCAPE COLORS AND FINISHES.

E. PROTECT ALL EXISTING UTILITY VAULTS, ELECTRICAL PANELS, PULL BOXES AND APPURTENANCES UNLESS SPECIFICALLY CALLED OUT ON PLANS. RAISE LIDS TO PROPOSED GRADE AS NECESSARY. SEE PLUMBING PLANS FOR DETAILS. NOTIFY UNDERGROUND SERVICE ALERT AT LEAST 2 WORKING DAYS IN ADVANCE OF BEGINNING EXCAVATION AT 1-800-422-4133.

F. EXISTING BURIED CONDUITS, PIPES AND/OR STRUCTURES KNOWN TO THE ENGINEER ARE SHOWN ON THE DRAWINGS BASED ON RECORD DRAWING INFORMATION OR INPUT FROM OTHERS. THE LOCATIONS OF THOSE SHOWN ARE APPROXIMATE (SCHEMATIC) ONLY AND, MOST LIKELY, OTHERS EXISTING WHICH HAVE NOT BEEN SHOWN. BEFORE ORDERING MATERIALS FOR, OR BEGINNING WORK ON PROPOSED BURIED CONDUITS AND PIPING, EXCAVATE TO LOCATE AND EXPOSE EXISTING FACILITY TO BE JOINED. DETERMINE PRECISE INVERT ELEVATION AT PROPOSED POINT OF CONNECTION AND RECORD MATERIAL TYPE AND DIMENSIONS AND PROVIDE INFORMATION TO ENGINEER FOR REVIEW AND FOR ESTABLISHING GRADE LINE FOR SEWER AND STORM DRAIN BEFORE WORK IS COMMENCED. ALLOW FIVE (5) WORKING DAYS FOR REVIEW.

G. IF SCHOOL-OWNED ELECTRICAL CONDUITS ARE SUSPECTED OF BEING IN THE WORK AREA BUT CANNOT BE LOCATED, ATTEMP TO HAVE SCHOOL OPERATIONS / MAINTENANCE STAFF SHUT OFF POWER TO THOSE CONDUITS DURING EXCAVATION. TIMING AND DURATION OF SHUT-OFFS MUST BE APPROVED IN ADVANCE BY SCHOOL ADMINISTRATION SO AS NOT TO ADVERSELY IMPACT SCHOOL AND EXTRA CURRICULAR ACTIVITIES.

H. RETAIN A LICENSED LAND SURVEYOR TO STAKE HORIZONTAL AND VERTICAL CONTROL FOR LAYOUT OF THE WORK, FOR SURVEYING LOCATIONS OF EXISTING BURIED PIPELINES, CONDUITS AND STRUCTURES AND FOR GRADE CONFIRMATION WHERE REQUIRED DURING CONSTRUCTION. CONFIRM CONTROL DATA WITH TOPOGRAPHIC MAPPING SURVEYOR (SIMPSON LAND SURVEYING COMPANY) PRIOR TO STAKING WORK. IN ADDITION, CHECK STAKING AT KEY LOCATIONS BY SCALING DISTANCES AND TAPING FROM EXISTING FEATURES SHOWN ON PLAN.

I. FOR CONCRETE PAVEMENTS, WALKWAYS, CURBS, GUTTERS AND WALLS, LAY OUT EXPANSION AND CONTROL JOINTS PER DRAWINGS AND SPECIFICATIONS AND MARK JOINT LOCATIONS ON FORMS FOR REVIEW BY OWNER'S CONSTRUCTION REPRESENTATIVE PRIOR TO ORDERING CONCRETE.

J. WHETHER OR NOT SPECIFICALLY CALLED FOR ON THE DRAWINGS, PROTECT FROM DAMAGE ALL EXISTING FEATURES WITHIN AND IN THE VICINITY OF THE WORK AREA WHICH ARE NOT TO BE ALTERED BY PROPOSED WORK:

1. DOCUMENT THE EXISTING CONDITION AND PROVIDE SUCH DOCUMENTATION TO OWNER'S CONSTRUCTION REPRESENTATIVE PRIOR TO BEGINNING WORK.
2. PROTECT DURING CONSTRUCTION FROM PHYSICAL AND ESTHETIC DAMAGE INCLUDING CRACKING, SCRAPING, DEFORMING, SOILING, AND SPATTER FROM PAINT, CONCRETE OR ASPHALT EMULSION.
3. RESTORE TO PRE-CONSTRUCTION CONDITION AND APPEARANCE TO SATISFACTION OF DISTRICT AT NO ADDITIONAL COST TO DISTRICT.

K. ALL BURIED FERROUS PIPE AND FITTINGS SHALL BE TAPE WRAPPED PER SPECIFICATIONS.

SPECIFIC CONSTRUCTION NOTES THIS SHEET:

(NUMBERED ITEM BELOW CORRESPONDS TO NUMBER WITHIN HEXAGON ON DRAWING)

SEWER:

1 PROTECT EXISTING 4" SEWER LINE TO REMAIN. CONTRACTOR TO VERIFY SIZE AND LOCATION.

2 CONNECT TO EXISTING SEWER LINE WITH FITTINGS AS NECESSARY. POTHOLE AND VERIFY PIPE INVERT PRIOR TO INSTALLATION. PROVIDE INFORMATION TO ENGINEER AND NOTIFY ENGINEER OF ANY CONFLICTS.

3 CONSTRUCT 4" SDR SEWER LATERAL WITH MINIMUM 1.0% MIN. SLOPE IN TRENCH PER DETAIL 12/C-5.1

4 CONSTRUCT SEWER CONNECTION TO BUILDING PER PLUMBING PLANS.

5 CONSTRUCT SEWER CLEANOUT PER DETAIL 18 / C5.1.

6-9 NOT USED.

WATER:

10 EXISTING 2" WATER LINE TO BE PROTECTED IN PLACE. CONTRACTOR TO VERIFY SIZE AND LOCATION.

11 CONSTRUCT CONNECTION TO EXISTING WATER LINE WITH FITTINGS AS NECESSARY. POTHOLE AND VERIFY PIPE INVERT PRIOR TO INSTALLATION. PROVIDE INFORMATION TO ENGINEER AND NOTIFY ENGINEER OF ANY CONFLICTS. ALL BURIED FERROUS PIPE AND FITTINGS SHALL BE TAPE WRAPPED PER SPECIFICATIONS.

12 CONSTRUCT 2" PVC WATER LINE IN TRENCH PER DETAIL 15 / C-5.1.

13 CONSTRUCT WATER CONNECTION TO BUILDING PER PLUMBING PLANS.

STORM DRAIN:
SEE SHEET C-2.1 FOR ALL STORM DRAIN INFORMATION.

EXISTING UTILITIES:
TO THE BEST OF THEIR ABILITY AND WITHOUT FULLY EXPOSING ANY AND ALL UTILITY LINES, THE RESPONSIBLE ENGINEER OR ARCHITECT HAS VERIFIED THE LOCATION OF THE EXISTING UTILITIES SHOWN AS EXISTING AND THEIR CAPACITY IS ADEQUATE TO THE ADDITIONAL LOAD.

SIGNATURE: _____ DATE: 1/16/2026

IMPORTANT NOTICE

ALL UTILITY LOCATIONS ARE APPROXIMATE CONTRACTOR IS TO NOTIFY UNDERGROUND SERVICE ALERT TWO WORKING DAYS PRIOR TO STARTING ANY EXCAVATION OR RESURFACING.

CALL TOLL FREE 1-800-422-4133

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125456 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026

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SAN LUIS OBISPO HIGH SCHOOL

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NEW CLASSROOM BUILDING & RELOCATION OF MODULAR RESTROOM

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ENGINEER'S STAMP & SIGNATURE

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CONSULTANT INFORMATION

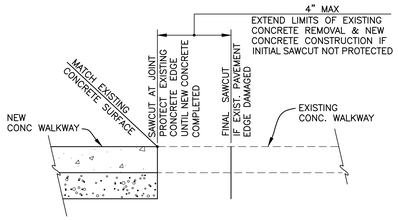
REVISION	DESCRIPTION	DATE	BY
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DATE 06/01/26
JOB. NO. 24010

SHEET TITLE: UTILITY PLAN

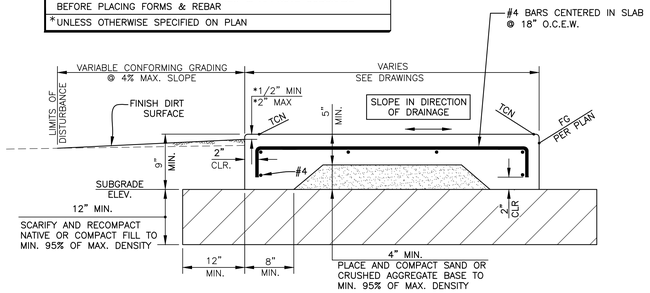
SHEET: C-4.1

NOTE:
AT END OF SAWCUT, DO NOT OVERCUT INTO EXISTING CONCRETE TO REMAIN. STOP SAW SHORT AND USE DRILL TO COMPLETE CUT.



1 SAWCUT DETAIL
NOT TO SCALE

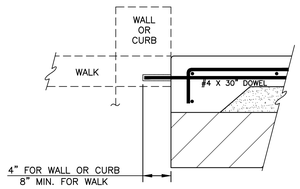
CONSTRUCT CONCRETE PER SPECIFICATIONS
THICKENED EDGE IS ON ALL SIDES UNLESS OTHERWISE NOTED
CONSTRUCT ⅜" RADIUS ROUNDING ON ALL EXPOSED CORNERS
FORM ALL SIDES
CONSTRUCT JOINTS PER SPECIFICATIONS AND AS SHOWN ON PLANS
CONSTRUCT BROOM FINISH TRANSVERSE TO PATH OF TRAVEL: MEDIUM BROOM WHERE WALK SLOPE IS 5% OR LESS, HEAVY BROOM WHERE SLOPE IS GREATER THAN 5%.
HAVE GEOTECHNICAL ENGINEER REVIEW & APPROVE SUBGRADE BEFORE PLACING FORMS & REBAR
*UNLESS OTHERWISE SPECIFIED ON PLAN



2 WALKWAY WITH THICKENED EDGE DETAIL
NOT TO SCALE

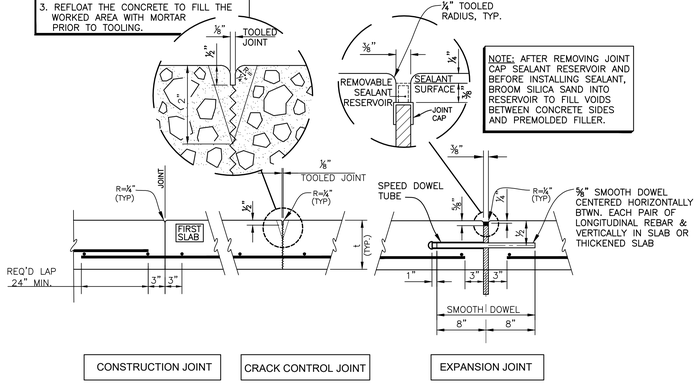
IF JOINING EXISTING WALKWAY OR IF ADJACENT TO EXISTING OR PROPOSED STRUCTURE OR CURB, DRILL & EPOXY GROUT (SIMPSON SET-XP ADHESIVE, ICC NO. ESR-2508, OR EQUIVALENT) #4 DOWEL INTO ⅝" DIA HOLE AT 18" O.C. IN WALK, OR 36" O.C. IN STRUCTURE, OR CURB.

WHERE CALLED FOR ON DRAWINGS, CONSTRUCT EXPANSION JOINT BETWEEN WALKWAY AND EXISTING OR PROPOSED STRUCTURE PER 3/CD-1 WITH FIXED END OF DOWEL INTO WALKWAY OR STRUCTURE

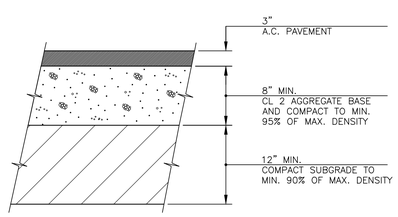


IF ADJACENT TO STRUCTURE / EXIST. WALK
NOT TO SCALE

1. MARK JOINT LOCATIONS ON FORMS.
2. AFTER PRELIMINARY TROWELING, WORK THE CONCRETE USING A STRAIGHT EDGE TO CREATE A DIVISION IN THE COARSE AGGREGATE TO A DEPTH OF 2 INCHES.
3. REFLOAT THE CONCRETE TO FILL THE WORKED AREA WITH MORTAR PRIOR TO TOOLING.

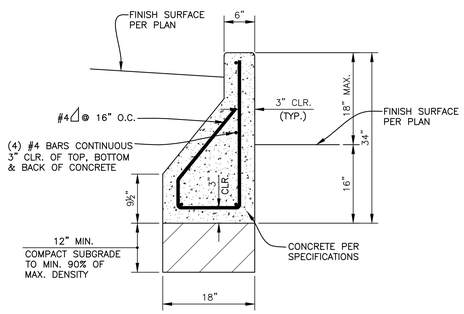


3 REINFORCED CONCRETE WALKWAY JOINTS DETAIL
NOT TO SCALE



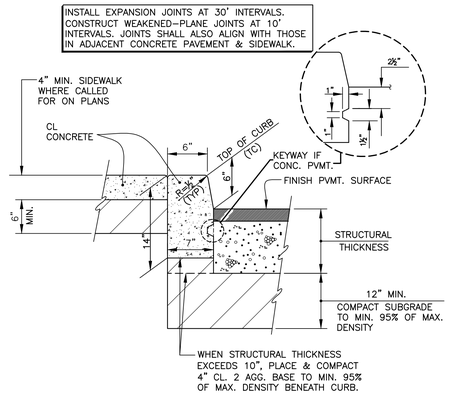
4 TYPICAL A.C. PAVEMENT REPLACEMENT SECTION
NOT TO SCALE

CONSTRUCT JOINTS PER SPECIFICATIONS AND AS SHOWN ON PLANS.
CONSTRUCT ½" RADIUS ROUNDING ON ALL EXPOSED CORNERS

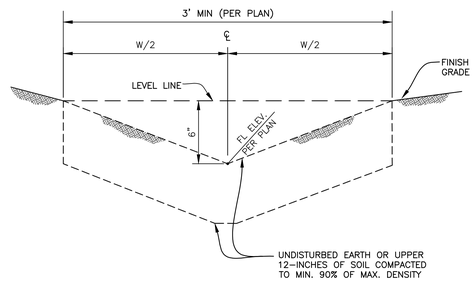


5 RETAINING CURB DETAIL
NOT TO SCALE

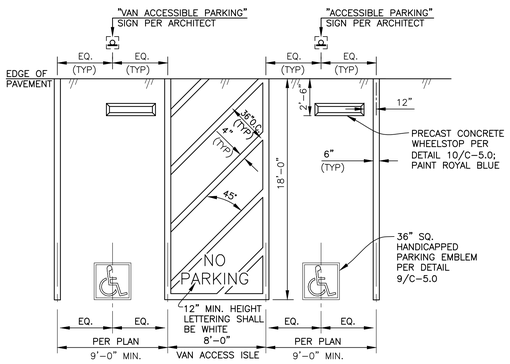
INSTALL EXPANSION JOINTS AT 30' INTERVALS. CONSTRUCT WEAKENED-PLANE JOINTS AT 10' INTERVALS. JOINTS SHALL ALSO ALIGN WITH THOSE IN ADJACENT CONCRETE PAVEMENT & SIDEWALK.



6 6" CURB DETAIL
NOT TO SCALE



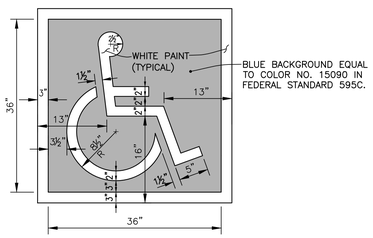
7 ROCK LINED SWALE
NOT TO SCALE



ISLE BORDER STRIPES SHALL BE 6"-WIDE; ISLE CROSS STRIPES AND STALL STRIPES SHALL BE 4" WIDE IN CONFORMANCE WITH CBC, LATEST EDITION.
ALL BORDER STRIPING SHALL BE COLOR: BLUE (COLOR NO. 35180 IN FEDERAL STANDARD 595C). "NO PARKING" LETTERING AND HATCHED LINES SHALL BE COLOR: WHITE TO CONTRAST WITH ISLE SURFACE.

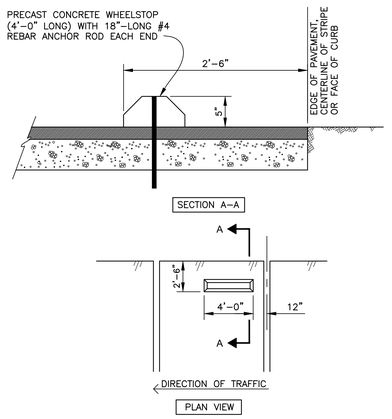
8 TYPICAL ACCESSIBLE PARKING STALL LAYOUT DETAIL
NOT TO SCALE

CONSTRUCT 2 COATS OF TRAFFIC PAINT PER SPECIFICATIONS. LOCATE SYMBOL CENTER AT REAR OF STALL WHERE SHOWN ON PLAN.



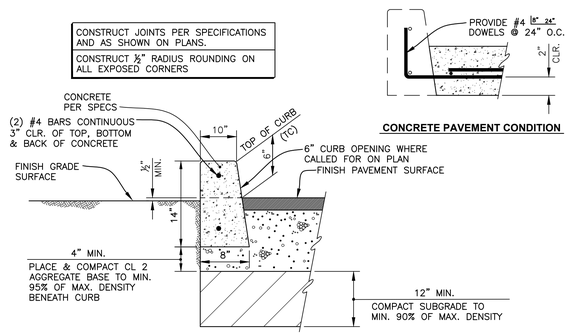
NOTE: ALL ADA FACILITIES TO BE INSTALLED IN CONFORMANCE WITH PROVISIONS PUBLISHED IN CBC, LATEST EDITION.

9 ACCESSIBLE PARKING STALL EMBLEM DETAIL
NOT TO SCALE



10 WHEELSTOP INSTALLATION DETAIL
NOT TO SCALE

CONSTRUCT JOINTS PER SPECIFICATIONS AND AS SHOWN ON PLANS.
CONSTRUCT ½" RADIUS ROUNDING ON ALL EXPOSED CORNERS



CONCRETE PAVEMENT CONDITION

11 6" CURB DETAIL
NOT TO SCALE

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SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026

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SAN LUIS OBISPO HIGH SCHOOL
1-489 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401
NEW CLASSROOM BUILDING
& RELOCATION OF MODULAR RESTROOM

F&A 115 W. Canon Perdido St. Santa Barbara, CA 93101
FLOWERS & ASSOCIATES, INC.

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ROBERT A. SCHMITZ — REGISTERED PROFESSIONAL ENGINEER — No. 71335 — CIVIL — STATE OF CALIFORNIA — Ren. 12/27

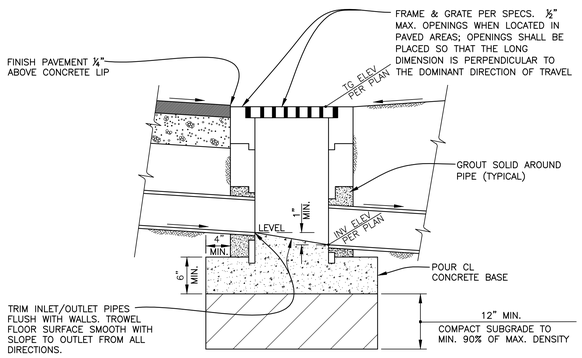
CONSULTANT INFORMATION

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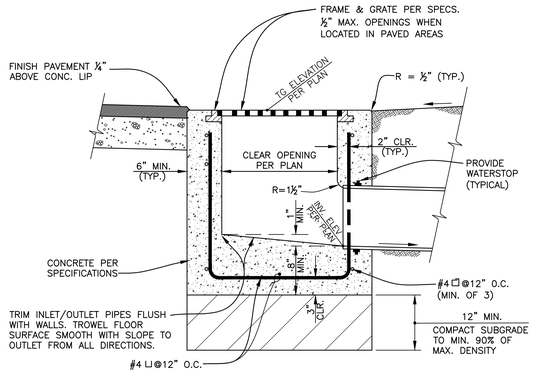
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CHECKED RS
DATE 06/01/26
JOB. NO. 24010

SHEET TITLE CONSTRUCTION DETAILS

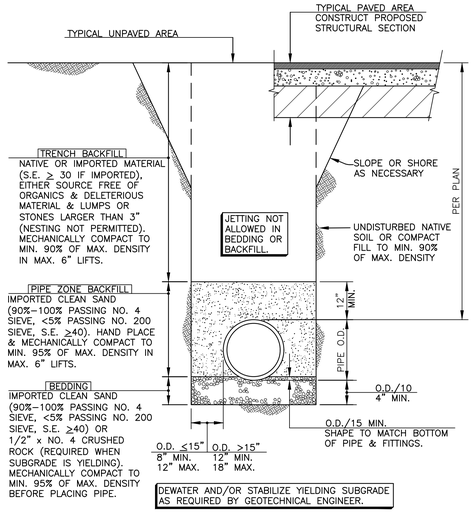
SHEET C-5.0



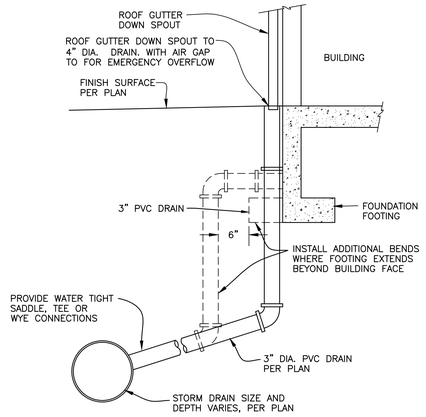
12A **PRECAST CATCH BASIN INSTALLATION DETAIL**
NOT TO SCALE



12B **CAST-IN-PLACE CATCH BASIN DETAIL**
NOT TO SCALE

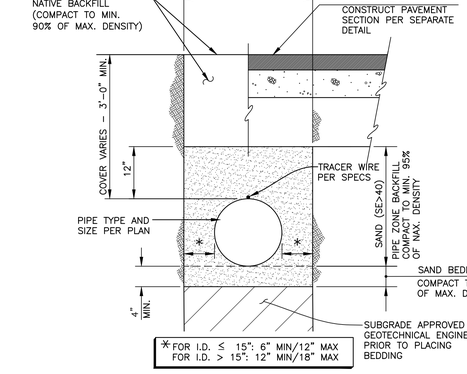


13 **PIPE TRENCH FOR NEW CONSTRUCTION**
NOT TO SCALE

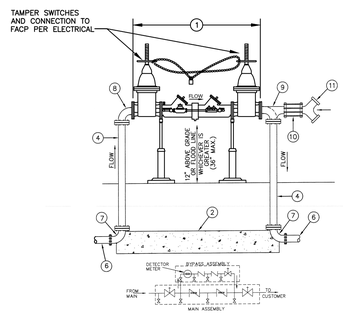


14 **ROOF GUTTER TO STORM DRAIN TRANSITION**
NOT TO SCALE

NOTE: ALL BURIED FERROUS PIPE AND FITTINGS SHALL BE TAPE WRAPPED PER SPECIFICATIONS.



15 **TYPICAL WATER PIPE TRENCH DETAIL**
NOT TO SCALE



ITEM	QTY.	DESCRIPTION
1	1	INSTALL DISTRICT APPROVED DOUBLE CHECK DETECTOR ASSEMBLY (D.C.D.A.); SEE NOTE 1 BELOW.
2	1	THRUST BLOCK, H X W = 24" X 18"
3		NOT USED
4	2	6" DIP OR STEEL FLANGED SPOOL
5		NOT USED
6	VAR.	6" CL 200 PVC PIPE, AWWA C900. WITH JOINT HARNESS
7	2	90 DEGREE BEND, MJ X FL, WITH RETAINER GLAND
8	2	90 DEGREE BEND, FL X FL
9	1	90 DEGREE BEND, FL X FL (OR TEE, FL X FL WHERE FIRE CONNECTION REQUIRED)
10	1	(WAFER STYLE, SILENT CHECK VALVE, OR APPROVED EQUAL WHERE FIRE CONNECTION REQUIRED)
11	1	2–2 1/2" (SIAMESE) HOSE CONNECTIONS WITH NST THREADS AS REQUIRED BY SANTA BARBARA COUNTY FIRE DEPT.

NOTES
1. WATTS 757 OSAY, DOUBLE DETECTOR CHECK BACKFLOW PREVENTION ASSEMBLY.
2. THE DCDA SHALL BE TESTED AND APPROVED BY A CERTIFIED TESTER PRIOR TO ACCEPTANCE BY GWD.
3. ALL TEST COCKS SHALL BE 1/4" DIAMETER.
4. ALL BURIED FERROUS PIPE AND FITTINGS SHALL BE TAPE WRAPPED.
5. ALL EXPOSED PIPE AND FITTINGS SHALL BE EPOXY COATED (BLACK) PRIOR TO INSTALLATION IN ACCORDANCE WITH SPECIFICATIONS.
6. ALL CUSTOMER CONNECTIONS SHALL BE DOWNSTREAM OF BACKFLOW ASSEMBLY.
7. HANDLES OF METER ISOLATION BALL VALVES SHALL BE REMOVED AND DELIVERED TO S.B.S.D.
8. 2" GALVANIZED PIPE SUPPORT(S) WITH 18" X 18" X 6" THICK CONCRETE PAD(S).
9. ALL BOLTED JOINT ACCESSORIES SHALL BE CLEANED AND COATED WITH ASPHALT.

16 **DOUBLE CHECK DETECTOR ASSEMBLY**
NOT TO SCALE

THRUST BLOCK DIMENSIONS

TABLE 1

PIPE SIZE (IN.)	CROSSES, TEES, DEAD ENDS AND VALVES DIMENSION ARE IN FEET							90 & 45 DEGREE HORIZ. BENDS DIMENSION ARE IN FEET	
	T	h	B	C	D	E	F	G	A (90°)	A (45°)
4	3.00	2.00	1.25	1.50	2.25	2.00	1.50	1.50	2.25	1.25
6	4.00	2.50	2.25	3.00	4.00	2.00	1.50	1.50	4.00	2.25
8	5.00	3.00	3.25	4.50	5.75	2.00	2.00	1.50	6.00	3.25
10	6.00	3.50	4.00	5.50	7.00	2.50	2.00	1.50	8.00	4.25
12	7.00	4.00	5.00	7.00	8.75	3.00	2.50	2.00	10.00	5.50
14	8.00	4.50	6.00	8.50	10.50	3.00	2.50	2.00	12.00	6.50

BLOCK SIZED BASED ON 250 PSI TEST PRESSURE AND 1000 PSF SOIL BEARING CAPACITY

TABLE 2

PIPE SIZE (IN.)	22 1/2 & 11 1/4 DEGREE HORIZONTAL BENDS DIMENSION ARE IN FEET			
	T	h	A(22 1/2°)	A(11 1/4°)
4	2.00	1.50	1.50	1.50
6	2.50	1.50	2.00	1.50
8	3.00	2.00	2.50	1.50
10	3.50	2.00	4.00	2.00
12	3.50	2.00	5.50	2.75
14	4.00	2.50	6.00	3.00

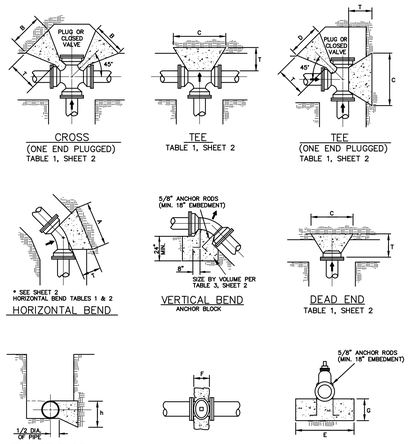
BLOCK SIZED BASED ON 250 PSI TEST PRESSURE AND 1000 PSF SOIL BEARING CAPACITY

TABLE 3

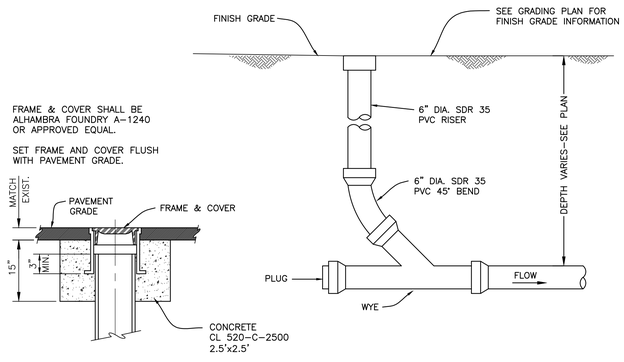
PIPE SIZE (IN.)	VERTICAL BENDS REQUIRED VOLUME IN CUBIC FEET		
	45°	22 1/2°	11 1/4°
4	16	8	4
6	36	18	9
8	64	32	16
10	100	51	25
12	144	73	37
14	196	100	50

BLOCK SIZED BASED ON 250 PSI TEST PRESSURE AND 1000 PSF SOIL BEARING CAPACITY

NOTES
1. THE VALUES IN TABLE 1 ABOVE FOR SIZE OF THRUST BLOCK ARE BASED ON A TEST PRESSURE OF 250 PSI AND SOIL BEARING CAPACITY OF 1000 PSF. A HIGHER SOIL BEARING PRESSURE MAY BE USED, IF THE PROJECT ENGINEER SUBMITS TO THE DISTRICT A REPORT PREPARED BY A LICENSED GEOTECHNICAL ENGINEER INDICATING THAT THE NATIVE SOILS AT THE PROJECT SITE HAVE A HIGHER SOIL BEARING PRESSURE.
2. THE PROJECT ENGINEER SHALL SUBMIT CALCULATIONS FOR THRUST BLOCK SIZES OTHER THAN THOSE RECOMMENDED ABOVE. DIMENSIONS OF THRUST BLOCKS SHALL BE SHOWN ON THE PLANS.
3. CONCRETE MIX SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI.
4. THRUST BLOCKS SHALL BE INSTALLED TO THE DIMENSIONS & CONFIGURATIONS AS SHOWN.
5. THRUST BLOCKS SHALL BE POURED SOLIDLY AGAINST FIRM UNDISTURBED NATIVE SOIL.
6. CONCRETE POURED AGAINST THE PIPE FITTING SHALL NOT EXTEND BEYOND THE JOINTS, AND A MIN. 3" CLEARANCE SHALL BE MAINTAINED FROM BOLTS.
7. JOINTS SHALL BE WRAPPED WITH 2 LAYERS OF 35 MIL BITUMASTIC TAPE WRAP BEFORE POURING CONCRETE.
8. UNLESS APPROVED OTHERWISE BY THE GWD INSPECTOR, WOOD FORMS SHALL BE USED FOR FORMING THRUST BLOCKS EXCEPT ON BEARING FACE OF BLOCKS.
9. ANCHOR RODS AT VALVES AND VERTICAL BENDS SHALL BE EPOXY COATED.

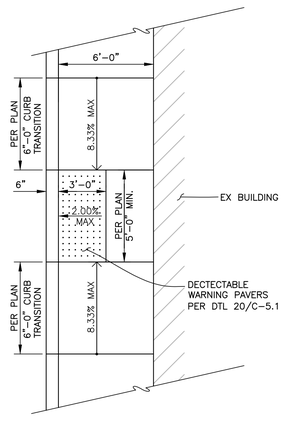


17 **CONCRETE THRUST BLOCKS**
NOT TO SCALE



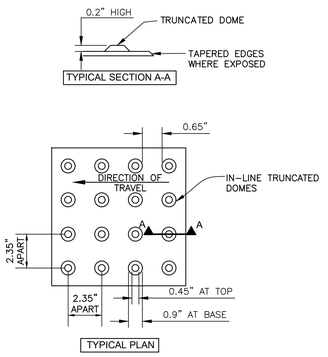
TOP OF CLEANOUT - PAVED AREAS

18 **CLEANOUT DETAIL**
NOT TO SCALE



NOTE: ALL ADA FACILITIES TO BE INSTALLED IN CONFORMANCE WITH PROVISIONS PUBLISHED IN CBC (LATEST EDITION).

19 **TYPICAL CURB RAMP DIAGRAM**
NOT TO SCALE



20 **TRUNCATED DOME DETAIL**
NOT TO SCALE

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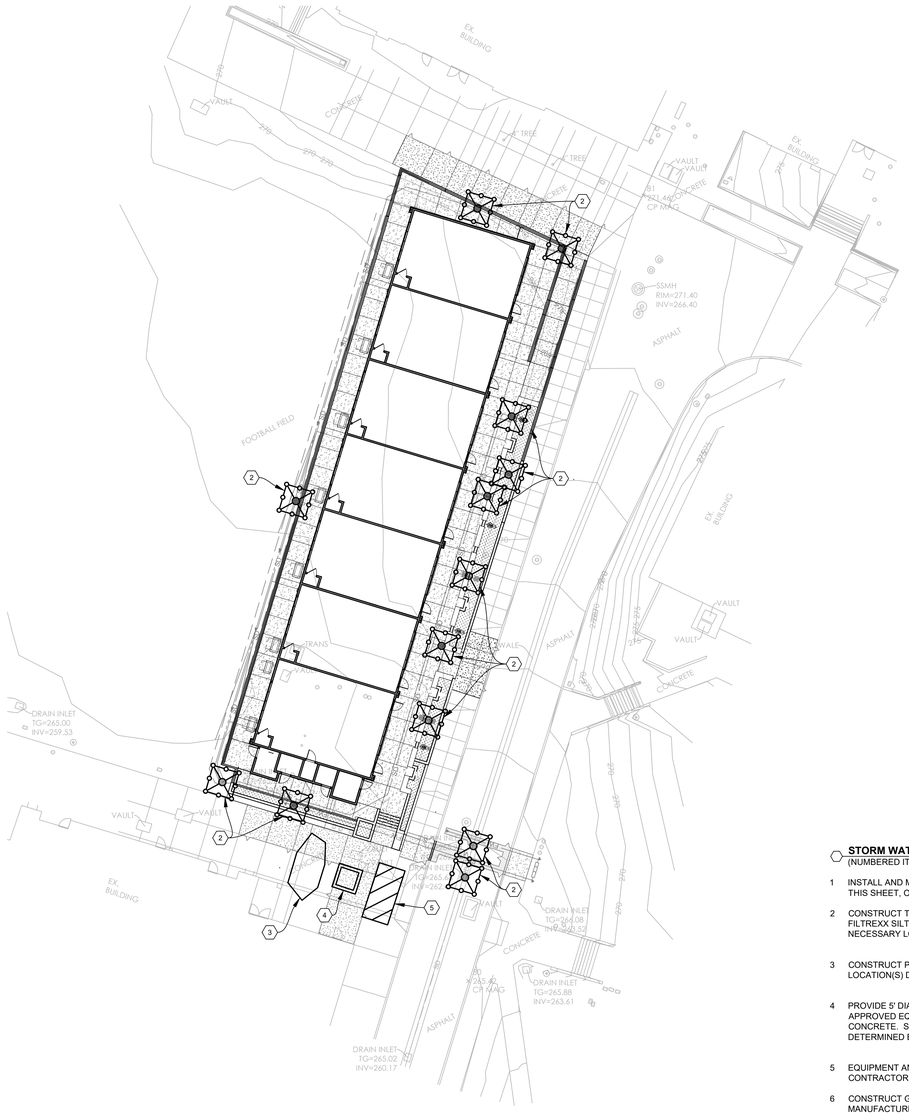
CONSULTANT INFORMATION

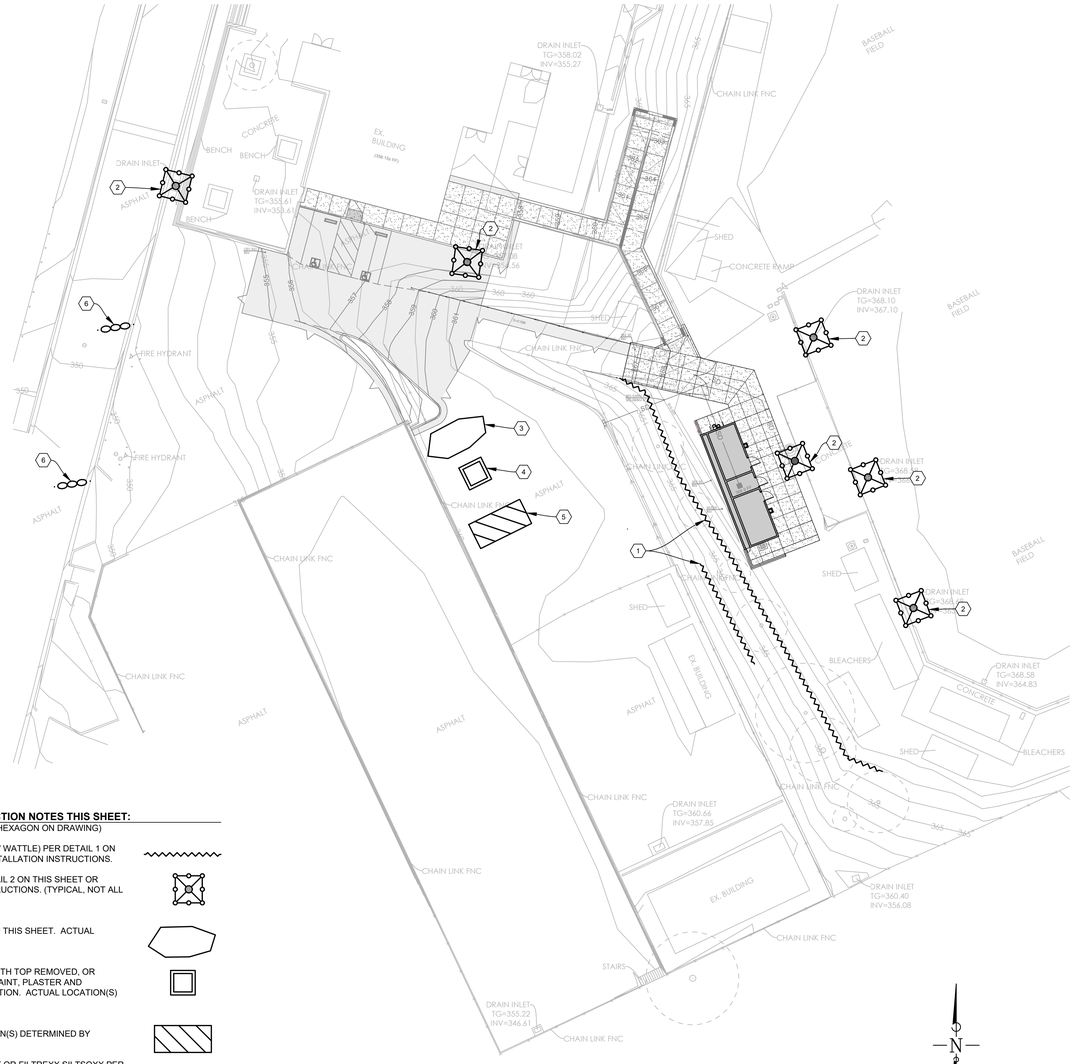
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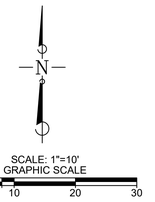
DRAWN CY
CHECKED RS
DATE 06/01/26
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SHEET TITLE CONSTRUCTION DETAILS

SHEET C-5.1







STORM WATER POLLUTION PREVENTION CONSTRUCTION NOTES THIS SHEET:
(NUMBERED ITEM BELOW CORRESPONDS TO NUMBER WITHIN HEXAGON ON DRAWING)

1 INSTALL AND MAINTAIN TEMPORARY FIBER ROLL BERM (STRAW WATTLE) PER DETAIL 1 ON THIS SHEET, OR FILTREXX SILTSOXX PER MANUFACTURER INSTALLATION INSTRUCTIONS.

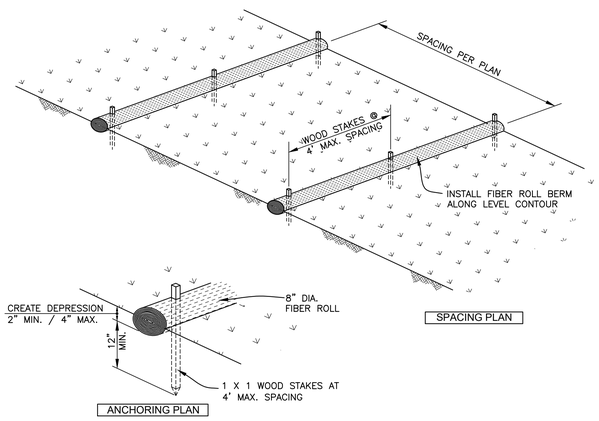
2 CONSTRUCT TEMPORARY SILT TRAP AT DRAIN INLET PER DETAIL 2 ON THIS SHEET OR FILTREXX SILTSOXX PER MANUFACTURER INSTALLATION INSTRUCTIONS. (TYPICAL, NOT ALL NECESSARY LOCATIONS ARE SHOWN).

3 CONSTRUCT POLLUTION CONTAINMENT AREA PER DETAIL 3 ON THIS SHEET. ACTUAL LOCATION(S) DETERMINED BY CONTRACTOR.

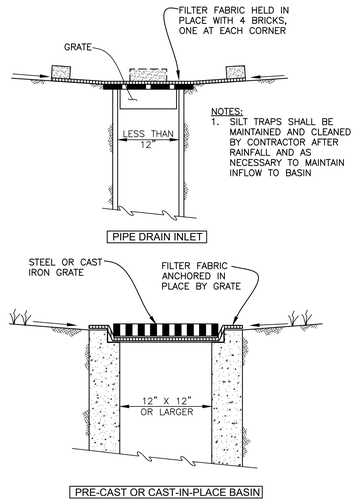
4 PROVIDE 5' DIAMETER X 3' DEEP MINIMUM SIZE WATER TANK WITH TOP REMOVED, OR APPROVED EQUAL, TO SERVE AS WASH-DOWN FACILITY FOR PAINT, PLASTER AND CONCRETE. SEE SWPPP BMP WM-8 FOR ADDITIONAL INFORMATION. ACTUAL LOCATION(S) DETERMINED BY CONTRACTOR.

5 EQUIPMENT AND MATERIALS STAGING AREA. ACTUAL LOCATION(S) DETERMINED BY CONTRACTOR.

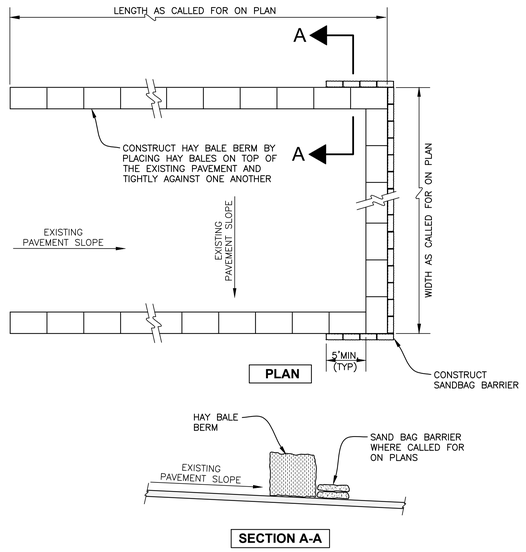
6 CONSTRUCT GRAVEL BAG FILTER PER DETAIL 4 ON THIS SHEET OR FILTREXX SILTSOXX PER MANUFACTURER INSTALLATION INSTRUCTIONS.



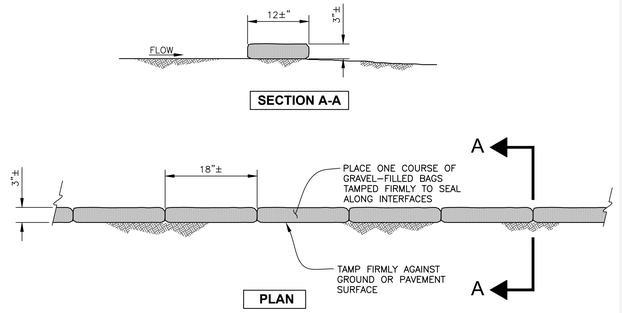
1 FIBER ROLL BERM DETAIL
NOT TO SCALE



2 SILT TRAP AT DRAIN INLET DETAIL
NOT TO SCALE



3 POLLUTION CONTAINMENT AREA STRAW BERM DETAIL
NOT TO SCALE



4 GRAVEL BAG FILTER DETAIL
NOT TO SCALE

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SHEET TITLE EROSION CONTROL PLAN & DETAILS

SHEET C-6.0

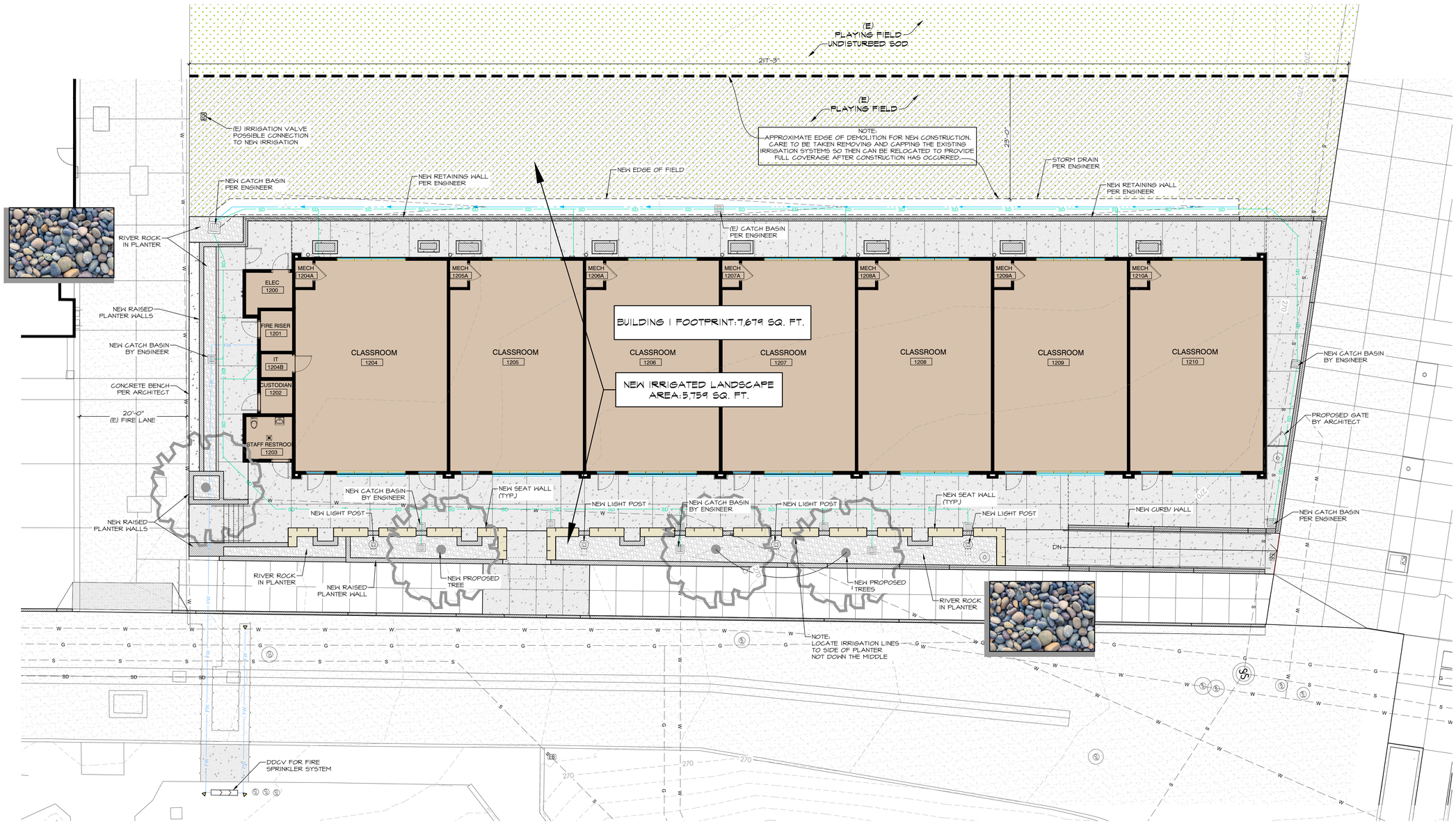
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24039_SITE IMPROVEMENT PLANS.DWG
W.O. 24039

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APPROXIMATE AREA OF NEW SOD REPAIR AND REPLACEMENT OF EXISTING PLAYING FIELD DAMAGED BY CONSTRUCTION. MATCH EXISTING SOD

EXISTING PLAYING FIELD SOD

NOTE:
CONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND OR P.O.C/P.O.D'S FOR ALL UTILITIES I.E. POTHOLE EACH SIDE, FIELD VERIFY DEPTHS THROUGHOUT FOR ALL EXISTING UTILITIES.* NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE ON BEHALF OF THE CONTRACTOR ON ACCOUNT OF AN ERROR ON HIS OR HER PART OF HIS OR HER NEGLIGENCE OF FAILURE TO ACQUAINT HIMSELF OR HERSELF WITH THE CONDITIONS OF THE SITE, EXISTING UTILITY LOCATIONS AND EASEMENTS, OR OF THE STREET OR ROADS APPROACHING THE SITE.



SITE PLAN - CLASSROOM BUILDING

SCALE 1/8" = 1'-0"

N:\EFD1\Projects\KBZschools\SLO High School\Autocad\Base.dwg, 5/29/2026 1:32:34 PM

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LANDSCAPE ARCHITECTS STAMP SIGNATURE

LICENSED LANDSCAPE ARCHITECT MAT GRADIAS No. 6766 Expiration CAL. LANDSCAPE ARCHITECT STATE OF CALIFORNIA

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5			
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3			
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1			

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CHECKED L.M.B.
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SHEET TITLE SITE PLAN - CLASSROOM BLDG

SHEET L-1

IRRIGATION NOTES:

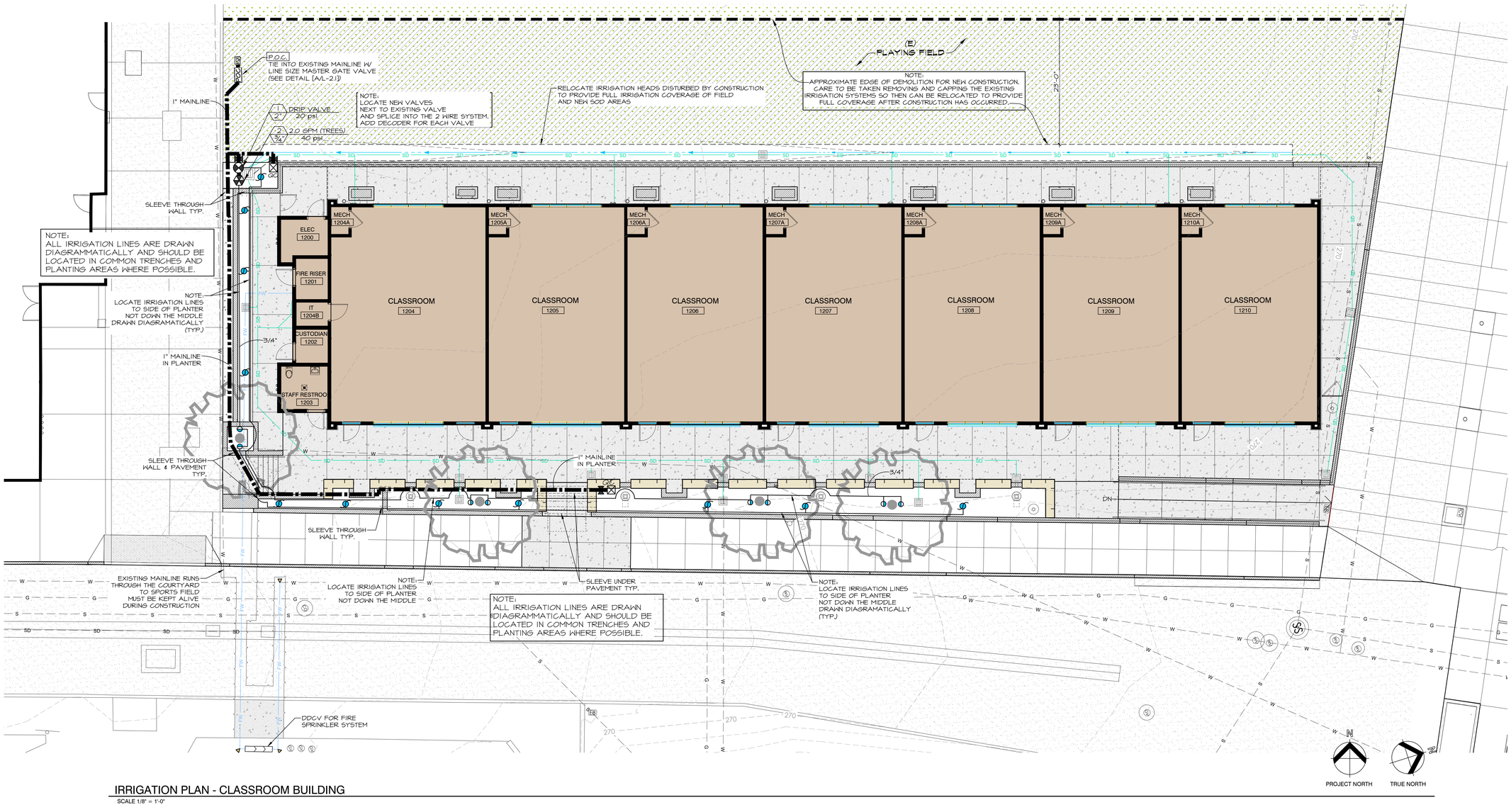
1. CONTRACTOR TO BE RESPONSIBLE FOR COORDINATION WITH SCHOOL DISTRICT ON LOCATION OF EXISTING UNDERGROUND UTILITY AND IRRIGATION LOCATIONS.
2. CONTRACTOR TO BE RESPONSIBLE FOR FULL IRRIGATION COVERAGE OF ALL PLANTED AREAS. (LAWN, TREES, SHRUBS, AND GROUND COVER.)
3. IRRIGATION PLAN TO BE COORDINATED WITH PLANTING PLAN. AND ADJUSTMENTS MADE IN THE FIELD
4. IN CASE OF DISCREPANCY, CONTACT LANDSCAPE ARCHITECT IMMEDIATELY, BEFORE PROCEEDING WITH WORK.
5. PRESSURE AT MAIN WATER SUPPLY TO BE VERIFIED BEFORE PROCEEDING. PRESSURE TEST NEW IRRIGATION MAIN FOR 24 HOURS BEFORE BACK FILL COVERING. A PRESSURE REGULATOR MAY BE NECESSARY FOR OPTIMUM SYSTEM PERFORMANCE.
6. ALL IRRIGATION LINES ARE DRAWN DIAGRAMMATICALLY AND SHOULD BE LOCATED IN COMMON TRENCHES AND PLANTING AREAS WHERE POSSIBLE.
7. VERIFY LOCATION OF EXISTING IRRIGATION SYSTEM IN THE FIELD.
8. SLEEVE UNDER PAVING (SCHEDULE 40 PVC MIN.)- 24" UNDER PAVING
9. INSTALL ALL IRRIGATION EQUIP AS PER MANUFACTURER'S INSTRUCTIONS.
10. USE GREEN OR BLACK PLASTIC (AMTEK, CARSON OR EQUAL) VALVE BOXES. ONE VALVE PER BOX.
11. ANY IRRIGATION TRENCHING UNDER OR NEXT TO OAK TREE DRIPLINE IS TO BE DONE BY HAND AND ANY LARGER ROOTS 1" DIAMETER OR LARGE ARE TO BE JETTED UNDER AND ARBORIST IS TO BE ON SITE TO OBSERVE AND MAKE RECOMMENDATIONS FOR PRESERVATION OF OAK TREES.
12. I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM ACCORDINGLY FOR EFFICIENT USE OF WATER IN THE DESIGN PLAN.
13. PRESSURE REGULATING DEVICES SHALL BE INSTALLED WHERE NECESSARY TO ENSURE THAT THE DYNAMIC PRESSURE AT EACH EMISSION DEVICE IS WITHIN MANUFACTURER'S RECOMMENDED PRESSURE RANGE FOR OPTIMAL PERFORMANCE.
14. ALL IRRIGATION EMISSION DEVICES WILL MEET THE CRITERIA AS SET FORTH IN MWELO SECTION 492.7(a)(1)(M) AND SHALL BE INSTALLED AND OPERATED ACCORDING TO MANUFACTURER'S INSTRUCTIONS/RECOMMENDATIONS.
15. ABSOLUTELY NO ABANDONED WATER LEGS WILL BE LEFT IN PLACE, I.E. NO CAPS OR PLUGS. IF LEG IS BEING ABANDONED, THE TEE WILL BE REMOVED AND THE LINE WILL BE REGAIRED WITH NO DEAD LEG, APPLICABLE IN ALL SITUATIONS.

IRRIGATION LEGEND

SYMBOL	MANUFACTURER/ DESCRIPTION	PSI	GPM	RADIUS
A L-2.2	P.O.C. — POINT OF CONNECTION. TIE INTO EXISTING WATER LINE WITH LINE SIZE GATE VALVE.			
	MASTER GATE VALVE (BASELINE MASTER VALVE) W/ FLOW CONTROL.			
	PRESSURE REGULATOR IRRITOL OMNI PEG 5-100 PSI/ OMR-100 (IF NEEDED)			
B L-2.2	ISOLATION VALVE; SPEAR TU2000-0408			
H L-2.2	IRRITOL 100S/ SCRUBBER CONTROL VALVE; SEE PLAN FOR SIZE			
C L-2.2	RAINBIRD DRIP ASSEMBLY CONTROL ZONE KIT XCZ-100-PRB-COM			
D L-2.2	QC — RIANBIRD 33DRC W/ 33K QUICK COUPLING VALVE			
	W — W — EXITING IRRIGATION MAINLINE			
	IRRIGATION MAIN (SCHEDULE 40 PVC PRESSURE LINE) BURY 18" AND 24" UNDER PAVING (TYP.)			
	SCHED. 40 PVC LATERAL			
E L-2.2	CLASS 40 PVC SLEEVING			
G L-2.2	DRIP RISER CONNECTOR TO 5/8" DRIP POLY TUBING WITH 2 GPH PRESSURE COMPENSATING EMITTERS	20	2 GPH	---
F L-2.2	HUNTER PCB 25 BUBBLER ON HUNTER PRO SERIES (PRS 40) 4" POP UP.	40	.25	---

APPROXIMATE AREA OF NEW SOD REPAIR AND REPLACEMENT OF EXISTING PLAYING FIELD DAMAGED BY CONSTRUCTION. MATCH EXISTING SOD

EXISTING PLAYING FIELD SOD



IRRIGATION PLAN - CLASSROOM BUILDING

SCALE 1/8" = 1'-0"

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LANDSCAPE ARCHITECT MARK H. PHILLIPS No. 6178 Exp. 12/2026 STATE OF CALIFORNIA

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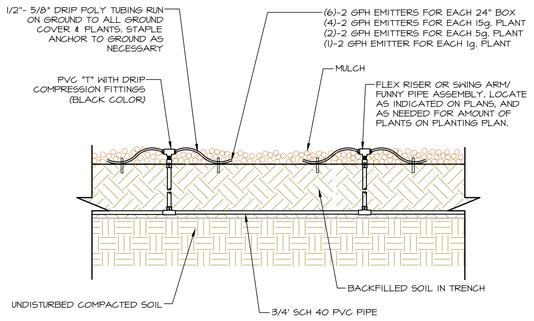
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DATE 06/01/26
JOB. NO. 24010

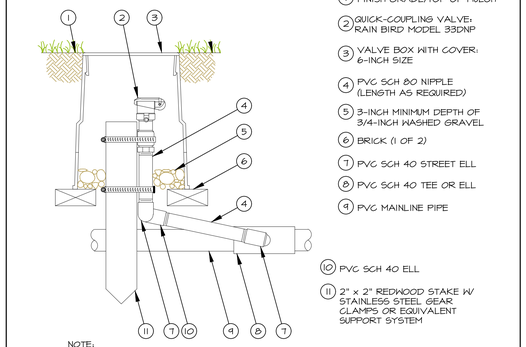
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SHEET L-2

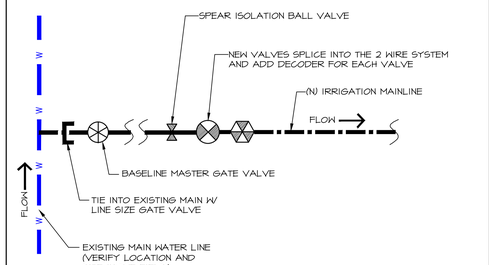
IRRIGATION DETAILS



G | DRIP RISER DETAIL | NOT TO SCALE

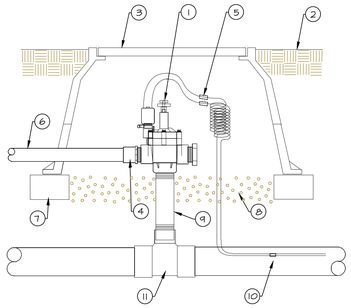


D | RAINBIRD 33DRC W/ 33K QUICK COUPLING VALVE | NOT TO SCALE



A | POINT OF CONNECTION [P.O.C.] DETAIL | NOT TO SCALE

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RIVERSIDE, CA 92504
TOLL FREE: 1-800-634-8873
PHONE: (951) 785-3454
www.irritrol.com



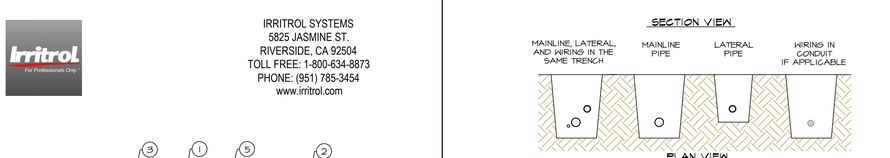
LEGEND:

1. IRRITROL 100PI/-LS, 100PI.5/-LS, 100P2/-LS 100P3/-LS ELECTRIC CONTROL VALVE.
2. FINISH GRADE.
3. VALVE BOX (HEIGHT ABOVE GRADE AS REQUIRED). CONCRETE TRAFFIC RATED WIDE ENOUGH TO ACCESS BOTH UNIONS AND VALVES
4. PVC MALE ADAPTER.
5. WATERPROOF WIRE CONNECTORS.
6. PVC LATERAL LINE-ANGLE TO PROPER DEPTH WITH 450 ELLS.
7. COMMON RED BRICK (4 REQUIRED).
8. PEA GRAVEL - 12" DEEP.
9. PVC SCHEDULE 80 NIPPLE (LENGTH AS REQUIRED).
10. COMMON AND CONTROL WIRES TO CONTROLLER LOCATION.
11. PRESSURE MAIN LINE PIPING WITH MAIN LINE FITTING (DEPTH AS REQUIRED).

NOTES:

1. REFER TO PRODUCT LITERATURE FOR ADDITIONAL INSTALLATION AND ADJUSTMENT INFORMATION.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. DO NOT SCALE DRAWING.
4. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
5. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
6. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 743-028.
7. SPEARS 848 SCH. 80 PVC UNIONS ONLY
8. BOTTOM 2" OF VALVE BOX WILL BE FILLED W/ SLURRY

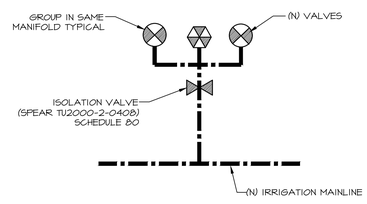
H | IRRITROL 100S W/ SCRUBBER CONTROL VALVE | NOT TO SCALE



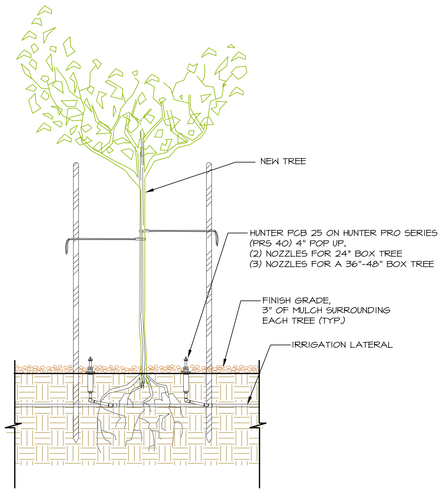
NOTES:

1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH CLASS 200 PVC TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN.
2. FOR PIPE AND WIRE BURIAL DEPTHS SEE SPECIFICATIONS.

E | PIPE & WIRE TRENCHING | NOT TO SCALE

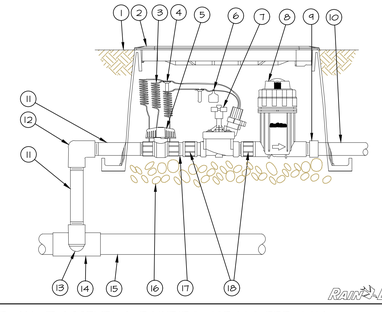


B | MANIFOLD AND ISOLATION VALVE DETAIL | NOT TO SCALE



F | TREE IRRIGATION DETAIL | SCALE: 1/2"=1'-0"

1. FINISH GRADE/TOP OF MULCH
2. VALVE BOX
3. 30-INCH LINEAR LENGTH OF WIRE, COILED
4. WATERPROOF CONNECTION: RAIN BIRD DB SERIES
5. 1-INCH BALL VALVE (INCLUDED IN XCZ-PRB-100-COM KIT)
6. ID TAG
7. REMOTE CONTROL VALVE:RAIN BIRD PESB (INCLUCED IN XCZ-PRB-100-COM KIT)
8. PRESSURE REGULATING QUICK CHECK BASKET FILTER. RAIN BIRD PRB-QKCHK-100 (INCLUDED IN XCZ-PRB-100-COM KIT)
9. PVC SCH 40 FEMALE ADAPTOR
10. LATERAL PIPE
11. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
12. PVC SCH 40 ELL
13. PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL
14. PVC SCH 40 TEE OR ELL
15. MAINLINE PIPE
16. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
17. PVC SCH 80 NIPPLE, CLOSE (INCLUDED IN XCZ-100-PRB-COM KIT)
18. THREADED SCHEDULE 80 UNIONS ON BOTH SIDES



C | DRIP VALVE ASSEMBLY- RAINBIRD XCZ-100-PRB-COM | NOT TO SCALE

IRRIGATION LEGEND

SYMBOL	MANUFACTURER/ DESCRIPTION
A L-2.2 P.O.C.	POINT OF CONNECTION. TIE INTO EXISTING WATER LINE WITH LINE SIZE GATE VALVE.
	MASTER GATE VALVE (BASELINE MASTER VALVE) W/ FLOW CONTROL.
	PRESSURE REGULATOR IRRITOL OMNI PEG 5-100 PSI/ OMR-100 (IF NEEDED)
B L-2.2	ISOLATION VALVE; SPEAR TU2000-0408
H L-2.2	IRRITOL 100S/ SCRUBBER CONTROL VALVE; SEE PLAN FOR SIZE
C L-2.2	RAINBIRD DRIP ASSEMBLY CONTROL ZONE KIT XCZ-100-PRB-COM
D L-2.2 QC	RIANBIRD 33DRC W/ 33K QUICK COUPLING VALVE
W W	EXITING IRRIGATION MAINLINE
	IRRIGATION MAIN (SCHEDULE 40 PVC PRESSURE LINE) BURY 18" AND 24" UNDER PAVING (TYP.)
	SCHED. 40 PVC LATERAL
E L-2.2	CLASS 40 PVC SLEEVING

SYMBOL	MANUFACTURER/ DESCRIPTION	PSI	GPM	RADIUS
G L-2.2	DRIP RISER CONNECTOR TO 5/8" DRIP POLY TUBING WITH 2 GPH PRESSURE COMPENSATING EMITTERS	20	2 GPH	---
F L-2.2	HUNTER PCB 25 BUBBLER ON HUNTER PRO SERIES (PRS 40) 4" POP UP.	40	.25	---

1. CONTRACTOR TO BE RESPONSIBLE FOR COORDINATION WITH SCHOOL DISTRICT ON LOCATION OF EXISTING UNDERGROUND UTILITY AND IRRIGATION LOCATIONS.
2. CONTRACTOR TO BE RESPONSIBLE FOR FULL IRRIGATION COVERAGE OF ALL PLANTED AREAS. (LAWN, TREES, SHRUBS, AND GROUND COVER.)
3. IRRIGATION PLAN TO BE COORDINATED WITH PLANTING PLAN. AND ADJUSTMENTS MADE IN THE FIELD
4. IN CASE OF DISCREPANCY, CONTACT LANDSCAPE ARCHITECT IMMEDIATELY, BEFORE PROCEEDING WITH WORK.
5. PRESSURE AT MAIN WATER SUPPLY TO BE VERIFIED BEFORE PROCEEDING. PRESSURE TEST NEW IRRIGATION MAIN FOR 24 HOURS BEFORE BACK FILL COVERING. A PRESSURE REGULATOR MAY BE NECESSARY FOR OPTIMUM SYSTEM PERFORMANCE.
6. ALL IRRIGATION LINES ARE DRAWN DIAGRAMMATICALLY AND SHOULD BE LOCATED IN COMMON TRENCHES AND PLANTING AREAS WHERE POSSIBLE.
7. VERIFY LOCATION OF EXISTING IRRIGATION SYSTEM IN THE FIELD.
8. SLEEVE UNDER PAVING (SCHEDULE 40 PVC MIN.)- 24" UNDER PAVING
9. INSTALL ALL IRRIGATION EQUIP AS PER MANUFACTURER'S INSTRUCTIONS.
10. USE GREEN OR BLACK PLASTIC (AMTEK, CARSON OR EQUAL) VALUE BOXES. ONE VALVE PER BOX.
11. ANY IRRIGATION TRENCHING UNDER OR NEXT TO OAK TREE DRIPLINE IS TO BE DONE BY HAND AND ANY LARGER ROOTS 1" DIAMETER OR LARGE ARE TO BE JETTED UNDER AND ARBORIST IS TO BE ON SITE TO OBSERVE AND MAKE RECOMMENDATIONS FOR PRESERVATION OF OAK TREES.
12. I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM ACCORDINGLY FOR EFFICIENT USE OF WATER IN THE DESIGN PLAN.
13. PRESSURE REGULATING DEVICES SHALL BE INSTALLED WHERE NECESSARY TO ENSURE THAT THE DYNAMIC PRESSURE AT EACH EMISSION DEVICE IS WITHIN MANUFACTURER'S RECOMMENDED PRESSURE RANGE FOR OPTIMAL PERFORMANCE.
14. ALL IRRIGATION EMISSION DEVICES WILL MEET THE CRITERIA AS SET FORTH IN MWELO SECTION 492.7(a)(1)(M) AND SHALL BE INSTALLED AND OPERATED ACCORDING TO MANUFACTURER'S INSTRUCTIONS/RECOMMENDATIONS.

LATERAL SCHEDULE (SIZE CHART)

GPM	PVC CLASS 40 PIPE SIZE
1-4	1/2"
5-8	3/4"
9-12	1"
12-22	1-1/4"
22-30	1-1/2"
30-45	2"
45 & UP	2-1/2"

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SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT

SAN LUIS OBISPO HIGH SCHOOL

1489 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401

NEW CLASSROOM BUILDING & RELOCATION OF MODULAR RESTROOM

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELLAGA STREET SANTA BARBARA CA 93101
TELEPHONE (805) 963-1726 FAX (805) 963-2951

JOE S. WILCOX, AIA
PRINCIPAL IN-CHARGE

MAT GRADIAS, AIA
PROJECT MANAGER

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LANDSCAPE ARCHITECTS STAMP SIGNATURE

REGISTERED LANDSCAPE ARCHITECT MAT GRADIAS No. 6574 EXP. 12/2026 STATE OF CALIFORNIA

CONSULTANT INFORMATION

REVISION	DESCRIPTION	DATE	BY
5			
4			
3			
2			
1			

DRAWN EFD
CHECKED L.M.B.
DATE 06/01/26
JOB. NO. 24010

SHEET TITLE IRRIGATION LEGEND AND DETAILS

SHEET L-2.1

N:\EFD1\Projects\KBZ\schools\SLO High School\Autocad\Base.dwg, 5/29/2026 1:32:39 PM

PLANTING NOTES

1. PLANT LIST IS FOR CONVENIENCE OF CONTRACTOR. PLAN IS TO PREVAIL AND LANDSCAPE ARCHITECT AND OWNER TO MAKE FINAL ADJUSTMENTS AS NECESSARY.
2. CONTRACTOR TO BE RESPONSIBLE FOR COORDINATION WITH OWNER FOR LOCATION OF UNDERGROUND UTILITIES AND TO VERIFY ALL EXISTING UTILITIES
3. CONTRACTOR TO BE RESPONSIBLE FOR FULL IRRIGATION COVERAGE OF ALL PLANTED AREA.
4. IRRIGATION TO BE COORDINATED WITH PLANTING PLAN.
5. ALL PLANTER AREAS SHALL BE AMENDED WITH 4 CU. YDS. OF FOREST HUMUS MULCH AND 150 LBS. OF GRO-POWER PLUS, PER 1,000 SQ. FT. OF PLANTED AREA. PLANTER MIX TO BE 50% NATIVE MIX SOIL AND 50% PLANTER MIX ABOVE FOR ALL BACK FILL OF NEW PLANTS.
6. PLANT MATERIAL MAY BE SUBJECT TO CHANGE AS PER OWNER OR LANDSCAPE ARCHITECTS DISCRETION.
7. ANY CLARIFICATION OR QUESTIONS ON PLANS, SPECIFICATIONS AND DETAILS SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT IMMEDIATELY BEFORE PROCEEDING WITH WORK.
8. ALL PLANTER AREAS TO BE TOP DRESSED WITH RIVER ROCKS TO MATCH EXISTING ON CAMPUS. PLANTERS WITH ROCK NEED TO HAVE FINISH GRADE 5" BELOW SURROUNDING AREA.
9. FOR SOILS LESS THAN 6% ORGANIC MATTER IN THE TOP 6" OF SOIL, COMPOST AT A RATE OF A MINIMUM OF FOUR CUBIC YARDS PER 1,000 SQUARE FEET OF PERMEABLE AREA SHALL BE INCORPORATED TO A DEPTH OF SIX INCHES INTO SOIL.
10. LANDSCAPE FABRIC IS REQUIRED IN ALL PLANTERS- 500 SERIES- LANDSCAPER'S CHOICE WOVEN LANDSCAPE FABRIC OR EQUAL.
11. ROCK 2"-4" "NOIYO" COBBLE STONE IN PLANTERS.
12. ALL PLANTS SHOULD BE PLANTED NO CLOSER THAN 5' FT. ON CENTER & 2' FT. FROM FLATWORK.
13. REFER TO SLO HIGH SCHOOL DIVISION 32 -EXTERIOR IMPROVEMENTS.

PLANT LIST FOR CLASSROOMS

SYM	QTY	SIZE	BOTANICAL NAME	COMMON NAME	WUCOLS PLANT FACTOR
TREES					
LAG IND	4	24" BOX	LAGERSTROEMIA INDICA - TUSCARORA	CRAPE MYRTLE STD DOUBLE STAKE	L
SHRUBS AND HERBACEOUS					
ANI FLA	7	5g	ANIGOZANTHUS FLAVIDUS	KANGAROO PAW	L
CAL LIT	14	5g	CALLISTEMON 'LITTLE JOHN'	LITTLE JOHN BOTTLEBRUSH	L
LOM BRE	30	5g	LOMANDRA 'BREEZE'	MAT RUSH	L

APPROXIMATE AREA OF NEW SOD REPAIR AND REPLACEMENT OF EXISTING PLAYING FIELD DAMAGED BY CONSTRUCTION. MATCH EXISTING SOD

EXISTING PLAYING FIELD SOD











(E) PLAYING FIELD UNDISTURBED SOD

(E) PLAYING FIELD

APPROXIMATE LINE OF CONSTRUCTION DAMAGE RESTORE AND REPAIR TURF AFTER CONSTRUCTION. REFER TO SAN LUIS OBISPO HIGH SCHOOL SOD SPECIFICATIONS.

NOTE: APPROXIMATE EDGE OF DEMOLITION FOR NEW CONSTRUCTION. CARE TO BE TAKEN REMOVING AND CAPPING THE EXISTING IRRIGATION SYSTEMS SO THEN CAN BE RELOCATED TO PROVIDE FULL COVERAGE AFTER CONSTRUCTION HAS OCCURRED.

REPLACE DAMAGED AND DEMOLISHED LAWN AREA WITH NEW SOD TO MATCH EXISTING FIELD GRASS.

8- LOM SEA

7- ANI FLA

CONCRETE BENCH

RIVER ROCK IN PLANTER W/ PLANTS

1- LAG IND

4- LOM BRE

9- LOM BRE

RIVER ROCK IN PLANTER W/ PLANTS

4- CAL LIT

NOTE: LOCATE IRRIGATION LINES TO SIDE OF PLANTER NOT DOWN THE MIDDLE

1- LAG IND

2- LAG IND

10- LOM BRE

10- CAL LIT

RIVER ROCK IN PLANTER W/ PLANTS

14- CAL LIT

NOTE: LOCATE IRRIGATION LINES TO SIDE OF PLANTER NOT DOWN THE MIDDLE

DDCV FOR FIRE SPRINKLER SYSTEM

PROPOSED GATE BY ARCHITECT

ELEC 1200

FIRE RISER 1201

IT 1204B

CUSTODIAN 1202

STAFF RESTROOM 1203

MECH 1204A — CLASSROOM 1204

MECH 1205A — CLASSROOM 1205

MECH 1206A

MECH 1207A

MECH 1208A — CLASSROOM 1208

MECH 1209A — CLASSROOM 1209

MECH 1210A — CLASSROOM 1210

BUILDING FOOTPRINT: 7,679 SQ. FT.

NEW IRRIGATED LANDSCAPE AREA: 5,759 SQ. FT.

N

PROJECT NORTH

TRUE NORTH

PLANTING PLAN - CLASSROOM BUILDING

SCALE 1/8" = 1'-0"

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SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT

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ARCHITECT'S STAMP & SIGNATURE

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LANDSCAPE ARCHITECT'S STAMP SIGNATURE

REGISTERED LANDSCAPE ARCHITECT MATTHEW S. GRADIAS No. 6574 EXP. 12/2026 STATE OF CALIFORNIA

CONSULTANT INFORMATION

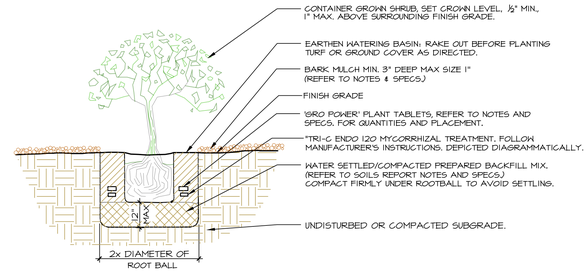
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SHEET TITLE: PLANTING PLAN- CLASSROOM BLDG

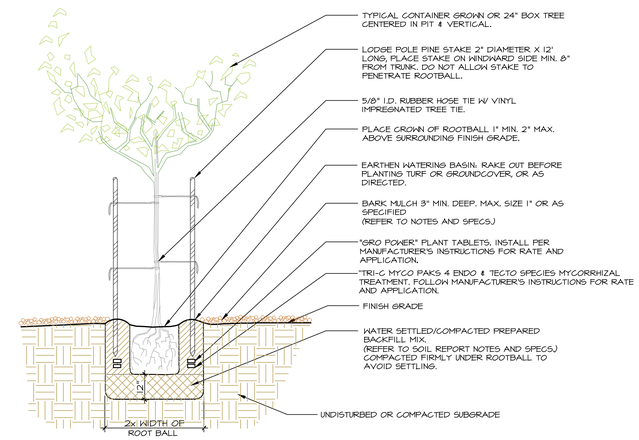
SHEET L-3

PLANTING DETAILS



A L-4 SHRUB PLANTING DETAIL

NOT TO SCALE



B L-4 TREE STAKING DETAIL

NOT TO SCALE

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LANDSCAPE ARCHITECTS STAMP SIGNATURE

LICENSED LANDSCAPE ARCHITECT MATTHEW L. GRADIAS No. 6574 EXP. 12/31/2026 STATE OF CALIFORNIA

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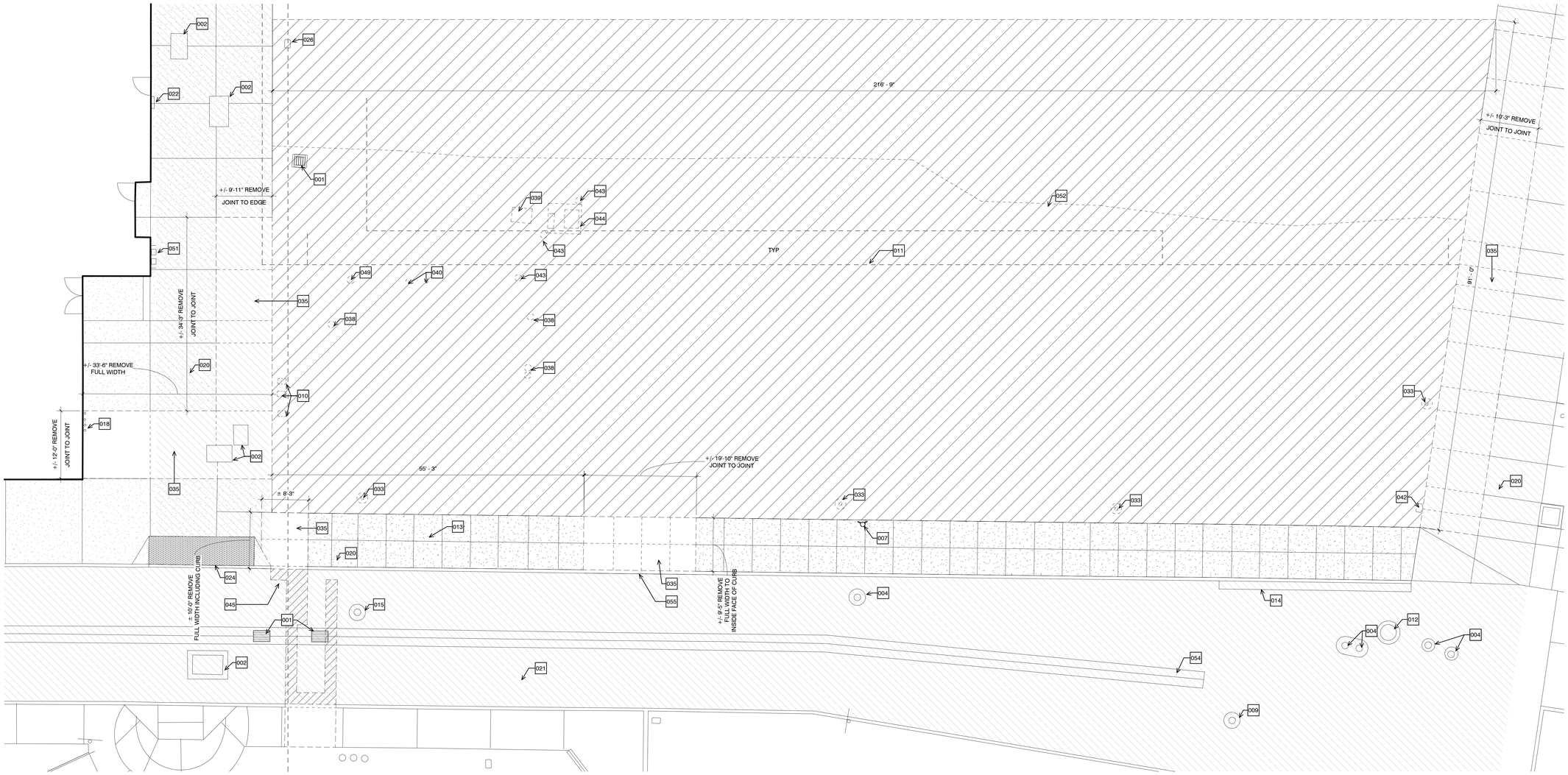
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SHEET TITLE PLANTING DETAILS

SHEET L-4

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1 Site Demo Plan - Classroom Building
SCALE: 1/8" = 1'-0"

N
PROJECT NORTH
TRUE NORTH

DEMO LEGEND

- REMOVE (E) DEBRIS, GRAVEL BASE MATERIAL, VEGETATION AND PREP FOR GRADING
- REMOVE (E) CONCRETE PAVING
- (E) FIRE LANE, DO NOT OBSTRUCT
- (E) CONCRETE TO REMAIN
- (E) FIRE HYDRANT

KEYNOTES

001 (E) STORM DRAIN TO REMAIN, PROTECT IN PLACE
002 (E) UTILITY VAULT TO REMAIN, PROTECT IN PLACE
004 (E) WATER VALVE TO REMAIN, PROTECT IN PLACE
007 (E) FIRE HYDRANT TO REMAIN, PROTECT IN PLACE
009 (E) GAS VALVE TO REMAIN, PROTECT IN PLACE
010 REMOVE (E) IRRIGATION CONTROL VALVES, CAP IRRIGATION LINES AT UPLINE IRRIGATION CONTROL VALVE
011 REMOVE (E) IRRIGATION LINES, CAP LINES AT UPLINE IRRIGATION CONTROL VALVE
012 (E) SANITARY SEWER MANHOLE TO REMAIN, PROTECT IN PLACE
013 PROVIDE TEMPORARY IRRIGATION SERVICE TO (E) CAMPUS COURTYARD
014 (E) CONCRETE GUTTER TO REMAIN, PROTECT IN PLACE
015 (E) CLEANOUT TO REMAIN, PROTECT IN PLACE
018 (E) CONDUIT TO REMAIN, PROTECT IN PLACE
020 (E) CONCRETE PAVING TO REMAIN, PROTECT IN PLACE
021 (E) ASPHALT CONCRETE PAVING TO REMAIN, PROTECT IN PLACE
022 (E) ELECTRICAL CABINET TO REMAIN, PROTECT IN PLACE
024 (E) CURB RAMP w/ DETECTABLE WARNING SURFACE TO REMAIN, PROTECT IN PLACE
026 (E) IRRIGATION CONTROL VALVE TO REMAIN, PROTECT IN PLACE
033 RELOCATE (E) LIGHT POLE: REMOVE (E) LIGHT POLE FOUNDATION
035 REMOVE (E) CONCRETE PAVING
038 REMOVE (E) CLEANOUT AND ASSOCIATED PIPING
039 REMOVE (E) UTILITY VAULT AND ASSOCIATED CONDUITS
040 REMOVE (E) CONDUITS TO LIMITS OF CONSTRUCTION, CAP OFF
042 REMOVE (E) INGROUND ELECTRICAL BOX
043 REMOVE (E) GAS VALVE
044 SALVAGE (E) TRANSFORMER AND RETURN TO DISTRICT, REMOVE (E) CONCRETE PAD
045 REMOVE (E) ASPHALT PAVING
049 REMOVE (E) WATER METER
051 (E) DRINKING FOUNTAIN TO REMAIN, PROTECT IN PLACE
052 (E) EDGE OF GRASS FIELD
054 (E) CONCRETE SWALE TO REMAIN, PROTECT IN PLACE
055 (E) CONCRETE CURB TO REMAIN, PROTECT IN PLACE

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SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT

SAN LUIS OBISPO HIGH SCHOOL
NEW CLASSROOM BUILDING
& RELOCATION OF MODULAR RESTROOM

1489 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401

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LICENSED ARCHITECT
JOE S. WILCOX
No. C-9808
Reg. 2027
STATE OF CALIFORNIA

ENGINEERS STAMP & SIGNATURE

CONSULTANT INFORMATION

REVISION	DESCRIPTION	DATE	BY
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4			
3			
2			
1			

DRAWN	TA
CHECKED	MG/JW
DATE	08/01/26
JOB. NO.	24010

SHEET TITLE: SITE DEMO PLAN - CLASSROOM BLDG

SHEET A-100



1 Site Demo Plan - (E) Modular Restroom Building
SCALE: 1/8" = 1'-0"

PROJECT NORTH

TRUE NORTH

KEYNOTES

001	(E) STORM DRAIN TO REMAIN, PROTECT IN PLACE
006	(E) ELECTRICAL BOX TO REMAIN, PROTECT IN PLACE
017	(E) WATER SERVICE TO REMAIN, PROTECT IN PLACE
021	(E) ASPHALT CONCRETE PAVING TO REMAIN, PROTECT IN PLACE
025	(E) TREE TO REMAIN, PROTECT IN PLACE
026	(E) IRRIGATION CONTROL VALVE TO REMAIN, PROTECT IN PLACE
027	REMOVE (E) CONCRETE RAMP, LANDINGS & HANDRAILS, RETAINING WALL AND PIPE RAIL GUARD TO REMAIN, PROTECT IN PLACE
029	(E) CONCRETE RETAINING WALL TO REMAIN, PROTECT IN PLACE
030	(E) CHAINLINK FENCE TO REMAIN, PROTECT IN PLACE
031	(E) CHAIN LINK GATE TO REMAIN, PROTECT IN PLACE
032	(E) BENCH TO REMAIN, PROTECT IN PLACE
036	REMOVE (E) CHAINLINK FENCE
037	REMOVE (E) VEGETATION AND PREP FOR GRADING
045	REMOVE (E) ASPHALT PAVING
046	(E) ELECTRICAL "A" PANEL
053	(E) SEWER TO REMAIN, PROTECT IN PLACE
056	(E) POLE LIGHT TO REMAIN, POTECT IN PLACE
057	(E) ASPHALT CURB TO REMAIN, PROTECT IN PLACE
058	REMOVE (E) CONCRETE HARDSCAPE
059	REMOVE (E) CHAINLINK GATE
060	(E) ASPHALT SLOPE TO REMAIN
061	REMOVE (E) PORTION OF RETAINING WALL & GUARD
062	(E) IRRIGATION LINE TO REMAIN, PROTECT IN PLACE

DEMO LEGEND

REMOVE (E) VEGETATION, PREP FOR GRADING AND EXCAVATION

REMOVE (E) ASPHALT PAVING

(E) LANDSCAPE

(E) CONCRETE

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NEW CLASSROOM BUILDING

1489 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401

& RELOCATION OF MODULAR RESTROOM

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELLAGA STREET SANTA BARBARA CA 93101
TELEPHONE (805) 963-1726 FAX (805) 963-2951

JOE S. WILCOX, AIA
PRINCIPAL-IN-CHARGE

MAT GRADIAS, AIA
PROJECT MANAGER

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ARCHITECT'S STAMP & SIGNATURE

ENGINEER'S STAMP & SIGNATURE

LICENSED ARCHITECT
JOE S. WILCOX
No. C-9808
Reg. 2027
STATE OF CALIFORNIA

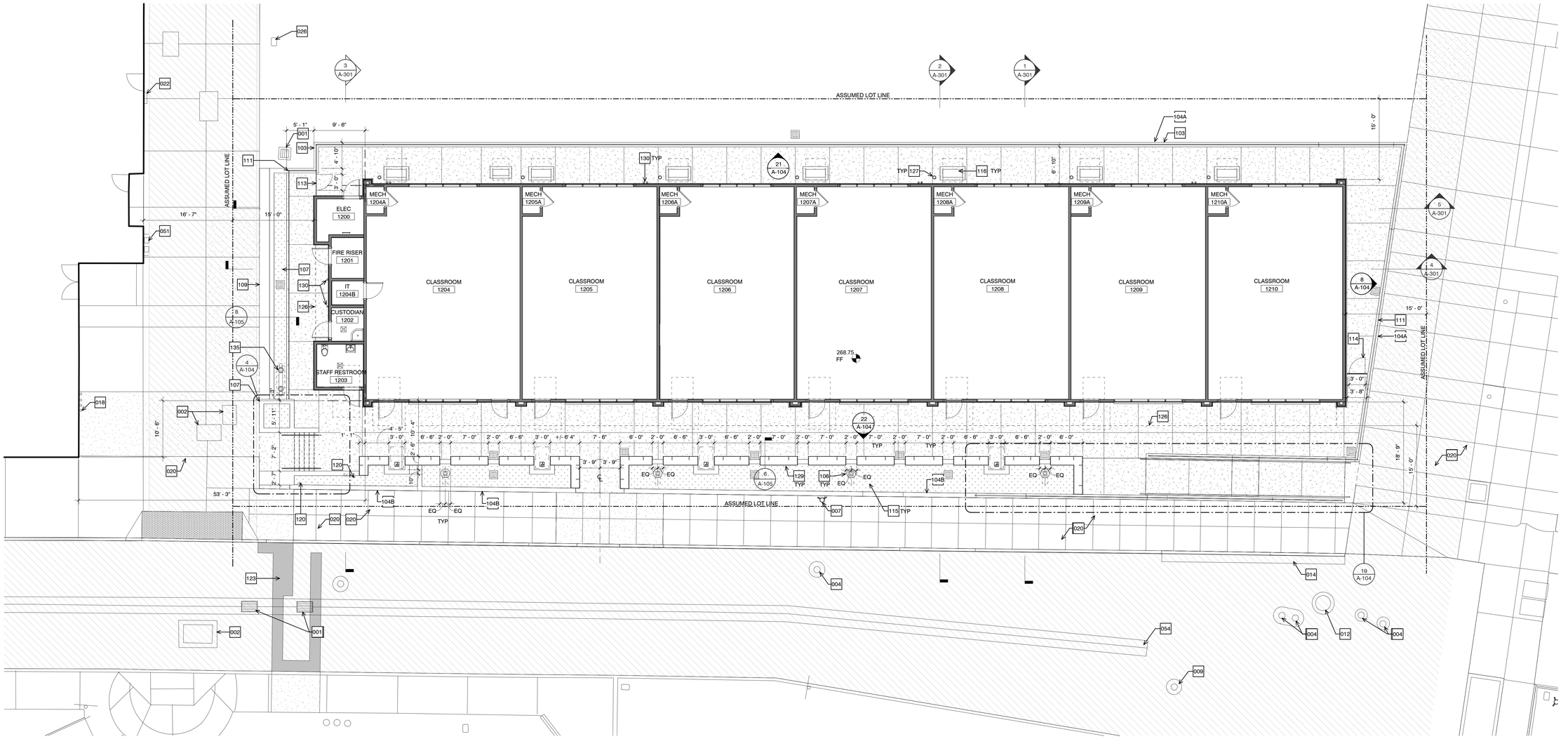
CONSULTANT INFORMATION

REVISION	DESCRIPTION	DATE	BY
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DRAWN	TA
CHECKED	MG/JW
DATE	06/01/26
JOB. NO.	24010

SHEET TITLE: SITE DEMO PLAN - TAYLOR FIELD

SHEET A-101



1 Site Plan - Classroom Building
SCALE: 1/8" = 1'-0"

PROJECT NORTH

TRUE NORTH

LEGEND

- CONCRETE PAVING PER CIVIL
- ASPHALT PAVING PER CIVIL
- PLANTER
- FIRE ACCESS LANE
- CATCH BASIN
- RELOCATED LIGHT POLE
- (E) FIRE HYDRANT

KEYNOTES

001	(E) STORM DRAIN TO REMAIN, PROTECT IN PLACE
002	(E) UTILITY VAULT TO REMAIN, PROTECT IN PLACE
004	(E) WATER VALVE TO REMAIN, PROTECT IN PLACE
007	(E) FIRE HYDRANT TO REMAIN, PROTECT IN PLACE
009	(E) GAS VALVE TO REMAIN, PROTECT IN PLACE
012	(E) SANITARY SEWER MANHOLE TO REMAIN, PROTECT IN PLACE
014	(E) CONCRETE GUTTER TO REMAIN, PROTECT IN PLACE
018	(E) CONDUIT TO REMAIN, PROTECT IN PLACE
020	(E) CONCRETE PAVING TO REMAIN, PROTECT IN PLACE
022	(E) ELECTRICAL CABINET TO REMAIN, PROTECT IN PLACE
026	(E) IRRIGATION CONTROL VALVE TO REMAIN, PROTECT IN PLACE
051	(E) DRINKING FOUNTAIN TO REMAIN, PROTECT IN PLACE
054	(E) CONCRETE SWALE TO REMAIN, PROTECT IN PLACE
103	CHAINLINK FENCE ATOP RETAINING WALL PER 12/A-106
104A	RETAINING WALL PER 7/S-302
104B	RETAINING WALL PER OPTIONAL DETAIL 7/S-302
106	RELOCATE (E) LIGHT POLE
107	CAST-IN-PLACE CONCRETE BENCH PER 6/A-105
109	CONCRETE BENCH & RETAINING WALL PER 8/A-105
111	GUARD PER 29/A-104
113	3' WIDE CHAIN LINK SECURITY GATE PER 12/A-106
114	3' WIDE CHAIN LINK SECURITY GATE PER 15/A-106
115	STORM DRAIN PER CIVIL
116	CONDENSING UNIT ON HOUSEKEEPING PAD
120	DIRECTIONAL SIGNAGE PER 3/A-901
123	ASPHALT PAVING PER CIVIL
126	LINE OF AWNING ROOF ABOVE
127	DRYWELL PER 9/P-001
129	CONCRETE BENCH WITH SKATE STOPS PER 6/A-105
130	GALVANIZED PIPE ROOF DRAIN DOWNSPOUT & OVERFLOW DOWNSPOUT PER 12/A-105
135	6" DDCA WITH FDC CONNECTION PER CIVIL

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125456 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026

SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT

SAN LUIS OBISPO HIGH SCHOOL
NEW CLASSROOM BUILDING
& RELOCATION OF MODULAR RESTROOM

1489 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401

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PROJECT MANAGER

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ARCHITECT'S STAMP & SIGNATURE

ENGINEER'S STAMP & SIGNATURE

LICENSED ARCHITECT JOE S. WILCOX No. C-9808 Renewal 8-31-27 STATE OF CALIFORNIA

CONSULTANT INFORMATION

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CHECKED	Checker
DATE	06/01/26
JOB. NO.	24010
SHEET TITLE	SITE PLAN - CLASSROOM BLDG

SHEET A-102



1 Site Plan - (E) Modular Restroom Building
SCALE: 1/8" = 1'-0"

DETERIORATION OR EXISTING NON-COMPLIANT CONSTRUCTION
IF ANY CONDITION IS DISCOVERED WHICH, IF LEFT UNCORRECTED, WOULD MAKE THE BUILDING NON-COMPLIANT WITH THE EDITION OF THE CALIFORNIA BUILDING CODE IN FORCE AT THE TIME OF ORIGINAL CONSTRUCTION, A CHANGE ORDER 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.

EXISTING UTILITIES
TO THE BEST OF THEIR ABILITY AND WITHOUT FULLY EXPOSING ANY AND ALL UTILITITY LINES, THE RESPONSIBLE ENGINEER OR ARCHITECT HAS VERIFIED THE LOCATION OF THE EXISTING UTILITIES SHOWN AS EXISTING AND THEIR CAPACITY IS ADEQUATE TO THE ADDITIONAL LOAD.

SIGNATURE _____ DATE 06/01/26

KEYNOTES

001	(E) STORM DRAIN TO REMAIN, PROTECT IN PLACE
006	(E) ELECTRICAL BOX TO REMAIN, PROTECT IN PLACE
017	(E) WATER SERVICE TO REMAIN, PROTECT IN PLACE
021	(E) ASPHALT CONCRETE PAVING TO REMAIN, PROTECT IN PLACE
025	(E) TREE TO REMAIN, PROTECT IN PLACE
026	(E) IRRIGATION CONTROL VALVE TO REMAIN, PROTECT IN PLACE
029	(E) CONCRETE RETAINING WALL TO REMAIN, PROTECT IN PLACE
030	(E) CHAINLINK FENCE TO REMAIN, PROTECT IN PLACE
031	(E) CHAIN LINK GATE TO REMAIN, PROTECT IN PLACE
032	(E) BENCH TO REMAIN, PROTECT IN PLACE
046	(E) ELECTRICAL "A" PANEL
056	(E) POLE LIGHT TO REMAIN, POTECT IN PLACE
057	(E) ASPHALT CURB TO REMAIN, PROTECT IN PLACE
060	(E) ASPHALT SLOPE TO REMAIN
062	(E) IRRIGATION LINE TO REMAIN, PROTECT IN PLACE
104A	RETAINING WALL PER 7/S-302
110	12' WIDE SECURITY GATE PER 14/A-106
111	GUARD PER 29/A-104
119	ACCESSIBILITY SIGNAGE PER 1 & 2 /A-902
120	DIRECTIONAL SIGNAGE PER 3/A-901
121	CHAINLINK FENCE PER 14/A-106
122	HI-LOW DRINKING FOUNTAIN PER 6/A-904
123	ASPHALT PAVING PER CIVIL
125	PERIMETER FLASHING PER 30/A-801
128	CRAWL SPACE ACCESS AND CRAWL SPACE VENTS PER, 2/A-201
131	RAMP & RETAINING WALL EXTENSION PER CIVIL
132	CURB EXTENSION PER CIVIL
133	HANDRAIL RETROFIT PER 22/A-105

LEGEND

- CONCRETE PAVING
- ASHALT PAVING
- ACCESSIBLE PATH OF TRAVEL
- (E) TREE TO REMAIN

MODULAR RESTROOM

1. RELOCATION OF ONE (E) MODULAR RESTROOM BUILDING (SERIAL NUMBER 11360, PC 03-113910, SITE SPECIFIC A# 03-116940). THE FOLLOWING DOCUMENTS SHALL BE ON THE JOBSITE PRIOR TO INSTALLATION OF THE UNIT(S):

A. IN PLANT VERIFIED REPORT
B. LABORATORY VERIFIED REPORT
C. WELDING VERIFIED REPORT

2. THE SITE INSPECTOR SHALL VERIFY THE ABOVE DOCUMENTS AND SERIAL NUMBERS ARE APPLICABLE TO EACH UNIT PRIOR TO INSTALLATION OF THE UNIT(S). NOTIFY ARCHITECT AND THE DIVISION OF THE STATE ARCHITECT FIELD ENGINEER IF ANY DISCREPANCIES OCCUR.

3. SEE CIVIL FOR FINISH GRADES

TAYLOR FIELD

PROJECT NORTH TRUE NORTH

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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ARCHITECTS STAMP & SIGNATURE

LICENSED ARCHITECT JOE S. WILCOX M-11-9808 Ren. 12/27 STATE OF CALIFORNIA

ENGINEERS STAMP & SIGNATURE

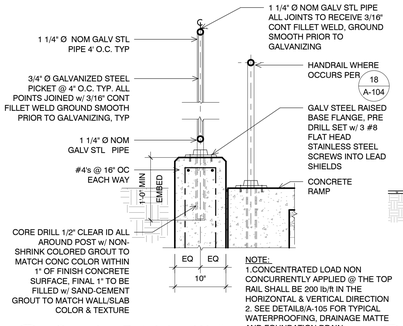
CONSULTANT INFORMATION

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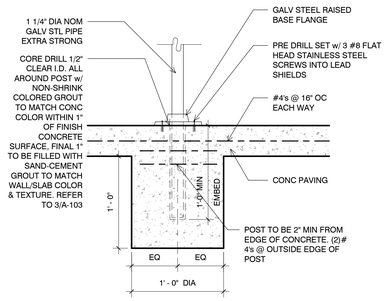
DRAWN	TA
CHECKED	MG/JW
DATE	06/01/26
JOB. NO.	24010

SHEET TITLE: SITE PLAN - TAYLOR FIELD

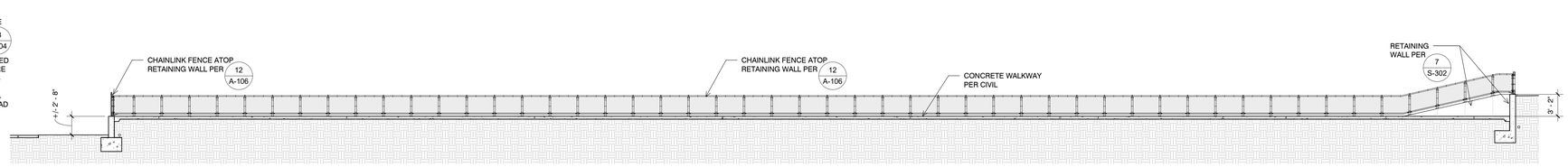
SHEET A-103



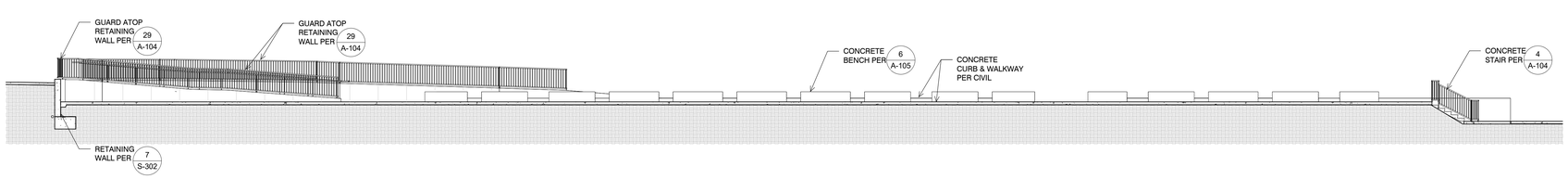
26 Guard at Retaining Wall
SCALE: 1" = 1'-0"



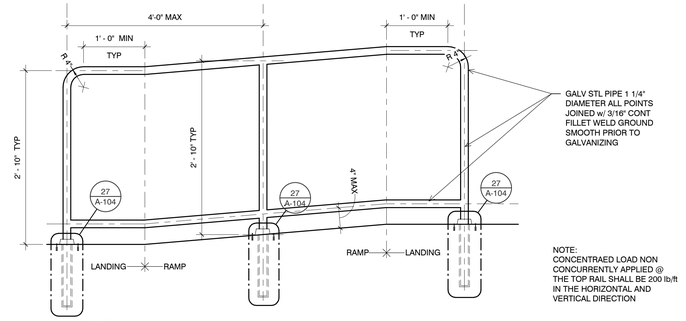
27 Handrail Post
SCALE: 1 1/2" = 1'-0"



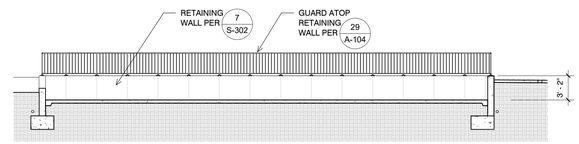
21 Site Retaining Wall - North
SCALE: 1/8" = 1'-0"



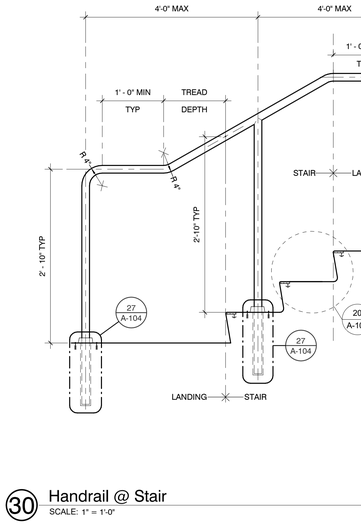
22 Site Retaining Wall - South
SCALE: 1/8" = 1'-0"



18 Handrail @ Ramp
SCALE: 1" = 1'-0"

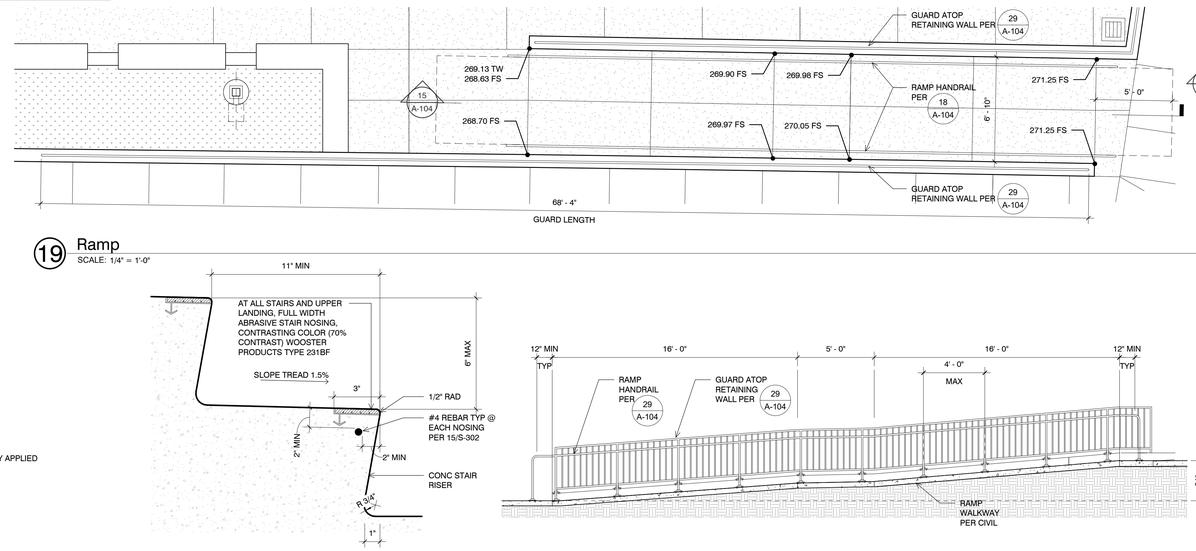


8 Site Retaining Wall - East
SCALE: 1/8" = 1'-0"



29 Guard
SCALE: 1" = 1'-0"

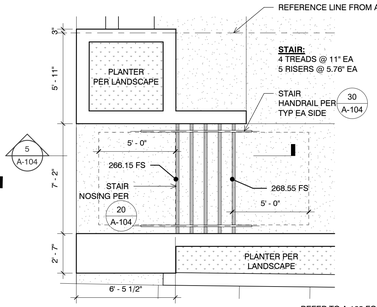
30 Handrail @ Stair
SCALE: 1" = 1'-0"



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

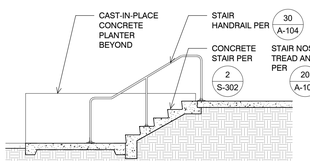
20 Stair Nosing, Typ
SCALE: 3" = 1'-0"

15 Ramp Section
SCALE: 1/4" = 1'-0"



REFER TO A-102 FOR INFORMATION NOT SHOWN

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



5 Stair Section
SCALE: 1/4" = 1'-0"

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DATE: 07/01/2026

SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT
SAN LUIS OBISPO HIGH SCHOOL
1489 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401
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& RELOCATION OF MODULAR RESTROOM

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ARCHITECT'S STAMP & SIGNATURE

ENGINEER'S STAMP & SIGNATURE

LICENSED ARCHITECT JOE S. WILCOX No. C-30808 Reg. 12/27 STATE OF CALIFORNIA

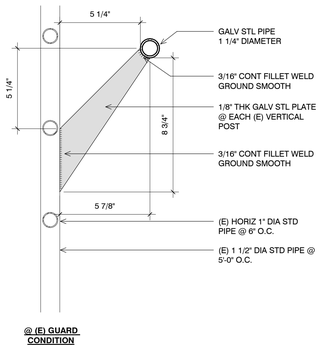
CONSULTANT INFORMATION

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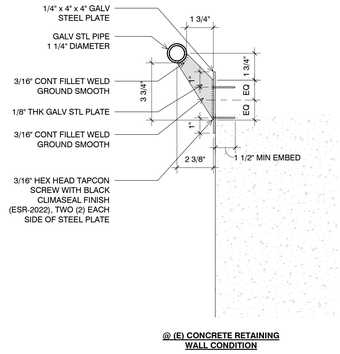
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DATE 06/01/26
JOB. NO. 24010

SHEET TITLE SITE DETAILS

SHEET A-104



@ (E) GUARD CONDITION



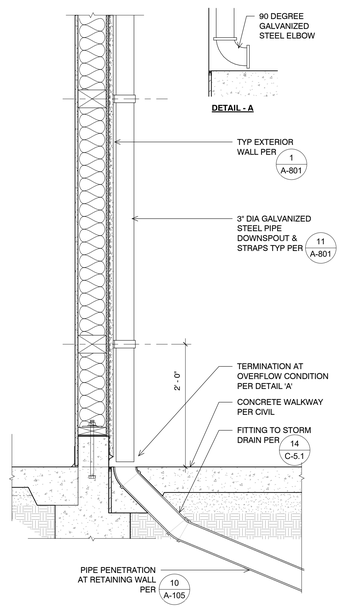
@ (E) CONCRETE RETAINING WALL CONDITION

NOTE:
1. CONCENTRAED LOAD NON CONCURRENTLY APPLIED @ THE TOP RAIL SHALL BE 200 lb/ft IN THE HORIZONTAL AND VERTICAL DIRECTION

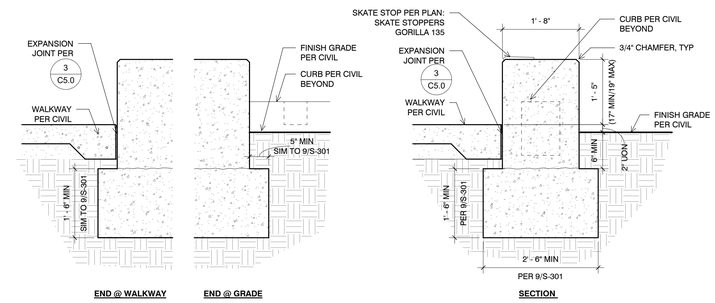
2. COLD GALVANIZE FIELD WELDED CONNECTIONS

3. HANDRAIL END TERMINATION SIM TO (18 / A-104)

22 Handrail Retrofit @ (E) Ramp
SCALE: 3" = 1'-0"



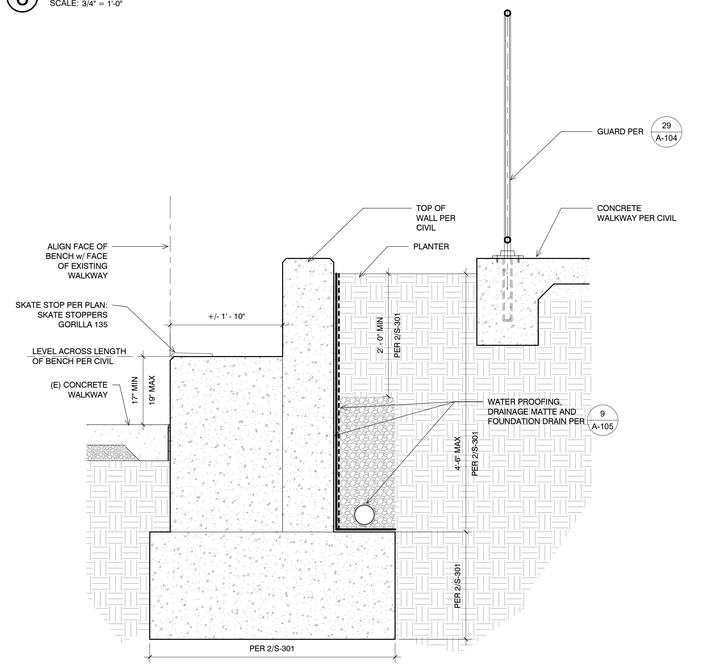
12 Downspout to Storm Drain
SCALE: 1" = 1'-0"



END @ WALKWAY **END @ GRADE** **SECTION**

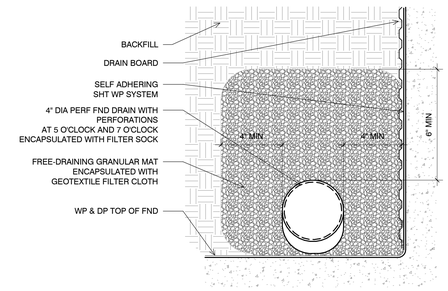
6 Concrete Bench, Typ
SCALE: 3/4" = 1'-0"

SEE 9/S-301 FOR FOOTING AND BENCH REINFORCING STEEL

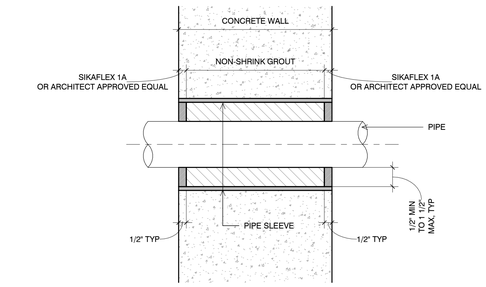


8 Bench @ Retaining Wall
SCALE: 1" = 1'-0"

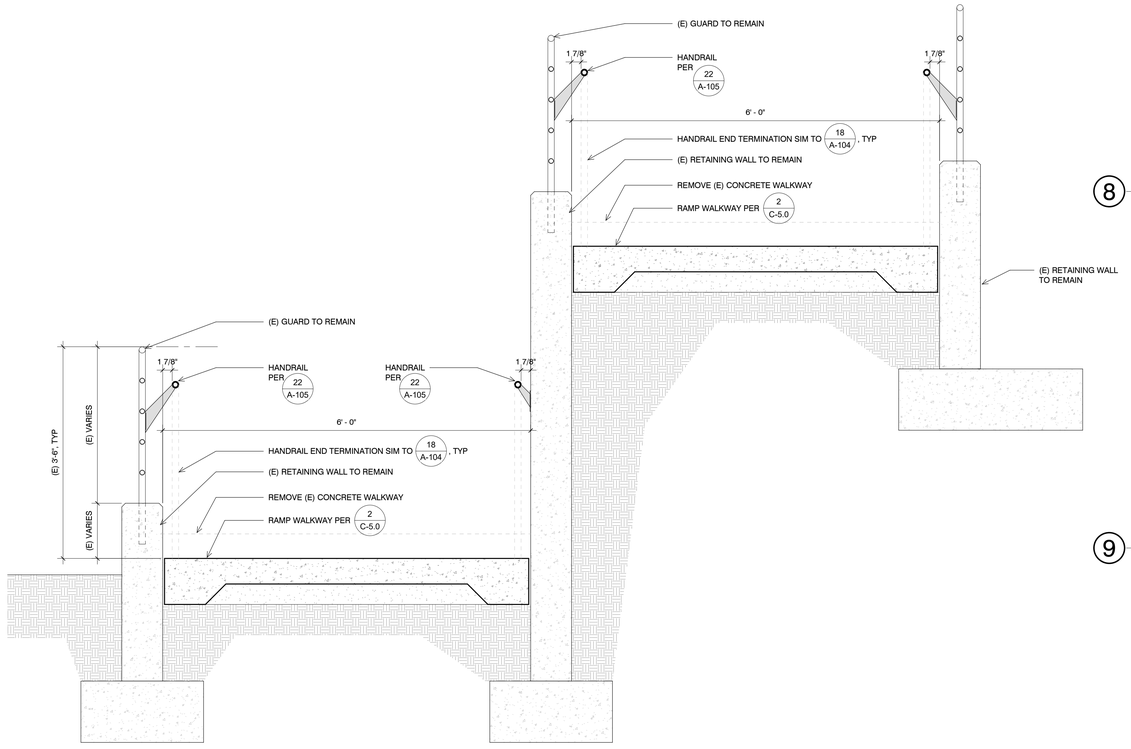
SEE 2/S-301 FOR RETAINING WALL AND BENCH REINFORCING STEEL



9 Typical Foundation Drain
SCALE: 3" = 1'-0"



10 Retaining Wall Pipe Penetration, Typ
SCALE: 3" = 1'-0"



25 Guard at Retaining Wall
SCALE: 1" = 1'-0"

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ARCHITECTS STAMP & SIGNATURE

ENGINEERS STAMP & SIGNATURE

LICENSED ARCHITECT JOE S. WILCOX No. C-9808 Ren. 12/27 STATE OF CALIFORNIA

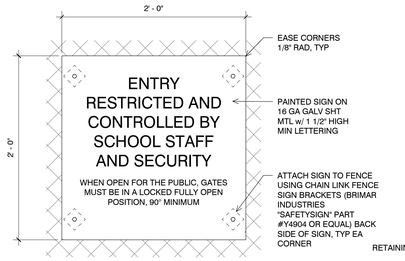
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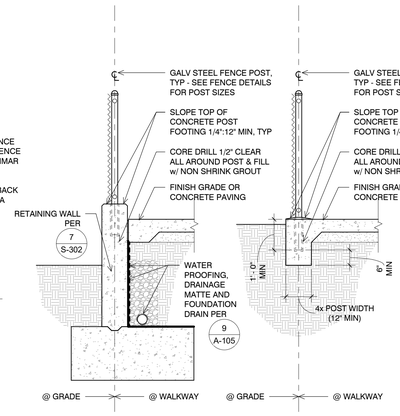
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SHEET TITLE SITE DETAILS

SHEET A-105

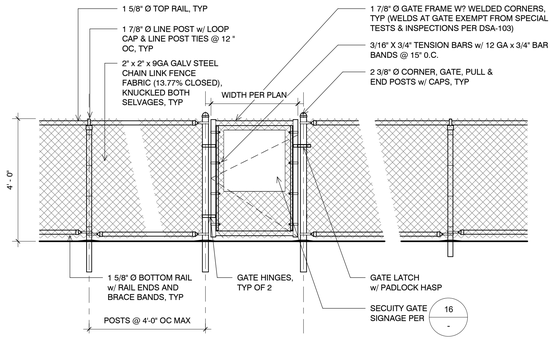


16 SECURITY GATE SIGNAGE
SCALE: 1 1/2" = 1'-0"



CROSS SECTION @ CURB

CROSS SECTION @ WALKWAY

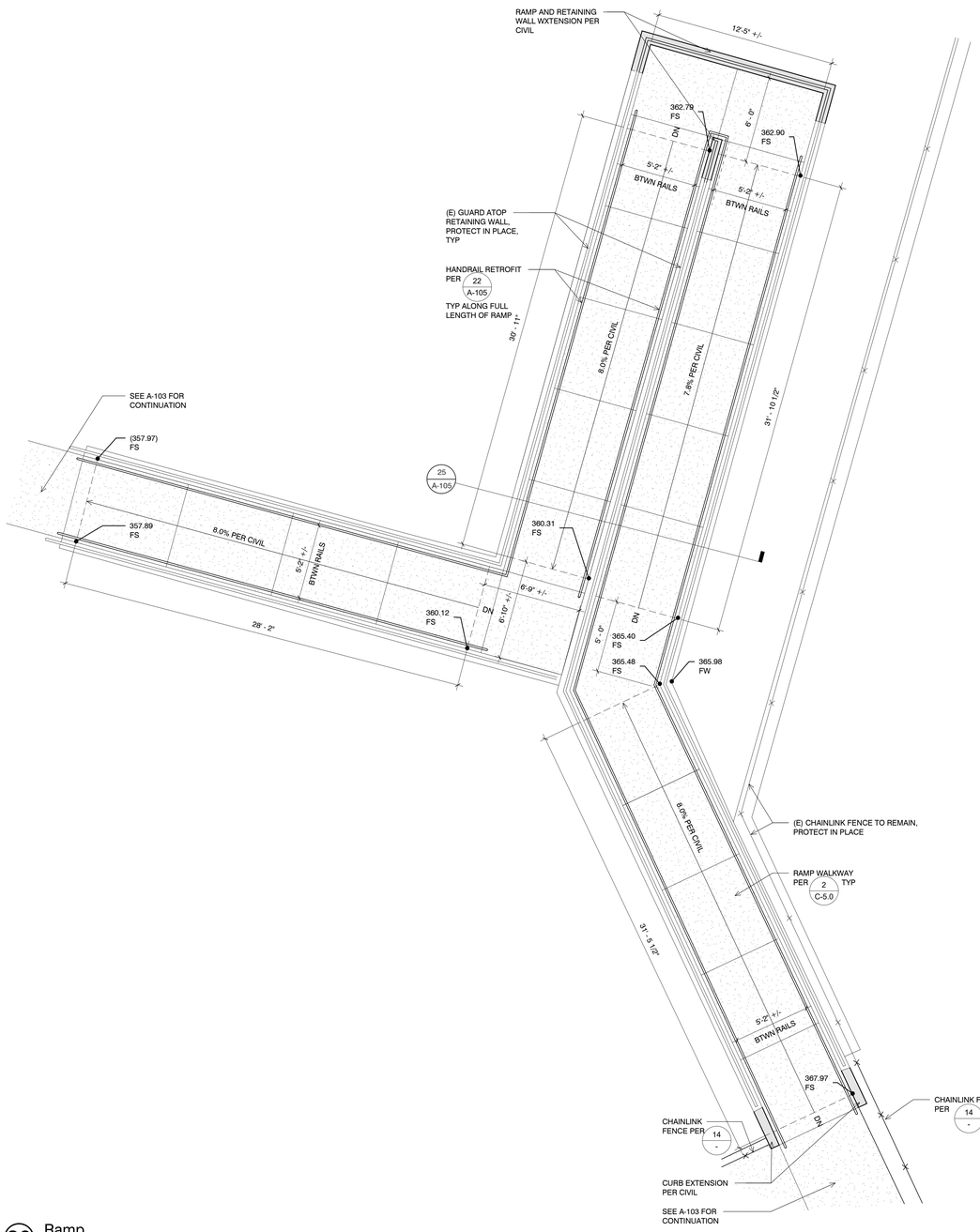


ELEVATION @ WALKWAY

ELEVATION @ CURB CONDITION

NOTE:
1. SOLID-CLAD AND OPEN MESH FENCES AND GATES WITH A MAXIMUM LEAF SPAN OF 10 FEET ARE EXEMPT FROM DSA REQUIREMENTS FOR STRUCTURAL TESTS / SPECIAL INSPECTIONS PER DSA-103

12 4'-0" H Chain Link Fence & Service Gate
SCALE: 1/2" = 1'-0"



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

CROSS SECTION @ MOW STRIP

CROSS SECTION @ FOOTING

CROSS SECTION @ MOW STRIP

CROSS SECTION @ FOOTING

ELEVATION

NOTE:
1. SOLID-CLAD AND OPEN MESH FENCES AND GATES WITH A MAXIMUM LEAF SPAN OF 10 FEET ARE EXEMPT FROM DSA REQUIREMENTS FOR STRUCTURAL TESTS / SPECIAL INSPECTIONS PER DSA-103
2. GATE HARDWARE PER HARDWARE GROUP ?????

14 6'-0" High Chain Link Fence & Service Gate - Double
SCALE: 1/2" = 1'-0"

CROSS SECTION @ MOW STRIP

CROSS SECTION @ FOOTING

ELEVATION

NOTE:
1. SOLID-CLAD AND OPEN MESH FENCES AND GATES WITH A MAXIMUM LEAF SPAN OF 10 FEET ARE EXEMPT FROM DSA REQUIREMENTS FOR STRUCTURAL TESTS / SPECIAL INSPECTIONS PER DSA-103
2. GATE HARDWARE PER HARDWARE GROUP ????

15 6'-0" High Chain Link Fence & Service Gate - Single
SCALE: 1/2" = 1'-0"

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SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT

SAN LUIS OBISPO HIGH SCHOOL

1489 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401

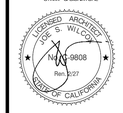
NEW CLASSROOM BUILDING & RELOCATION OF MODULAR RESTROOM

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELLAGA STREET SANTA BARBARA CA 93101
TELEPHONE (805) 963-1726 FAX (805) 963-2951
JOE S. WILCOX, AIA
PRINCIPAL-IN-CHARGE
MAT GRADIAS, AIA
PROJECT MANAGER

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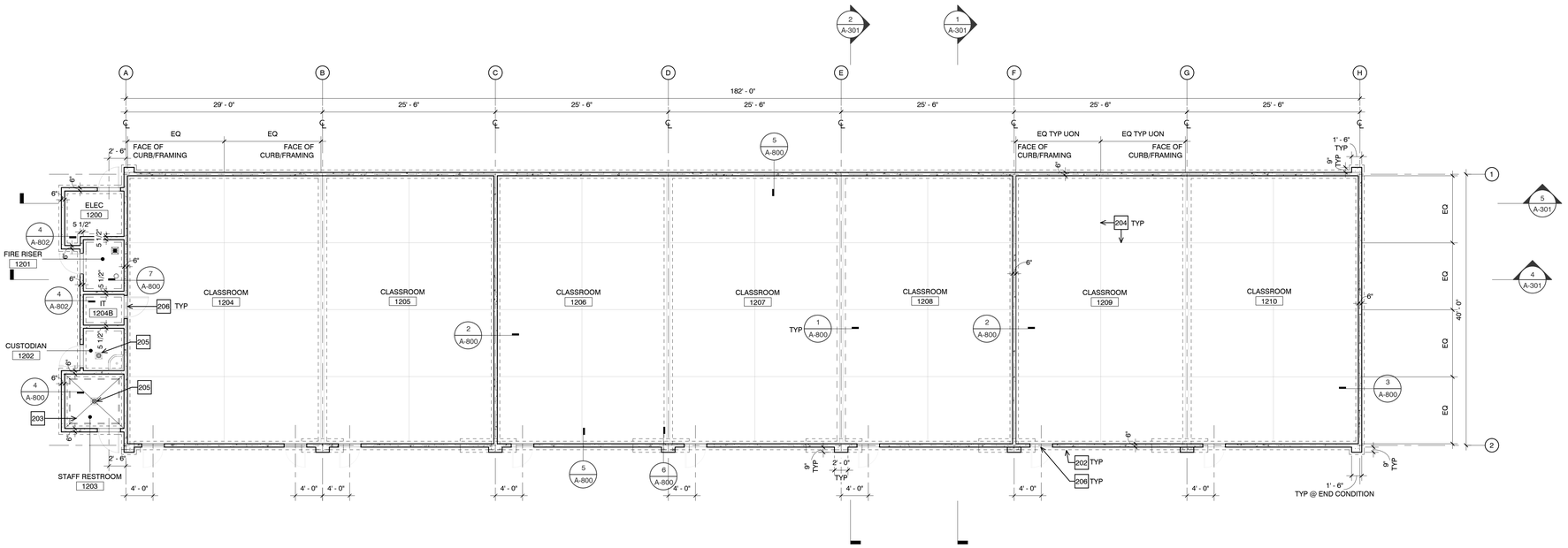
CONSULTANT INFORMATION

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DATE 06/01/26
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SHEET TITLE SITE DETAILS

SHEET A-106



KEYNOTES

202	FOOTING BELOW PER STRUCTURAL
203	DEPRESSED SLAB, 3/4"
204	CONTROL JOINT PER STRUCTURAL
205	FLOOR DRAIN PER PLUMBING; SLOPE ADJ FLOOR PER 6/A-903
206	DOOR ROUGH OPENING

LEGEND

- 6" HIGH CONCRETE CURB, TYP
- FOOTING UNDER WALL
- 4" CONCRETE SLAB-ON-GRADE w/ VAPOR BARRIER, TYP (8 / S-103)
- 3/4" DEPRESSED 4" CONCRETE SLAB-ON-GRADE w/ VAPOR BARRIER, TYP

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

TRUE NORTH

PROJECT NORTH

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ENGINEER'S STAMP & SIGNATURE

LICENSED ARCHITECT JOE S. WILCOX M-9808 Ren. 12-27 STATE OF CALIFORNIA

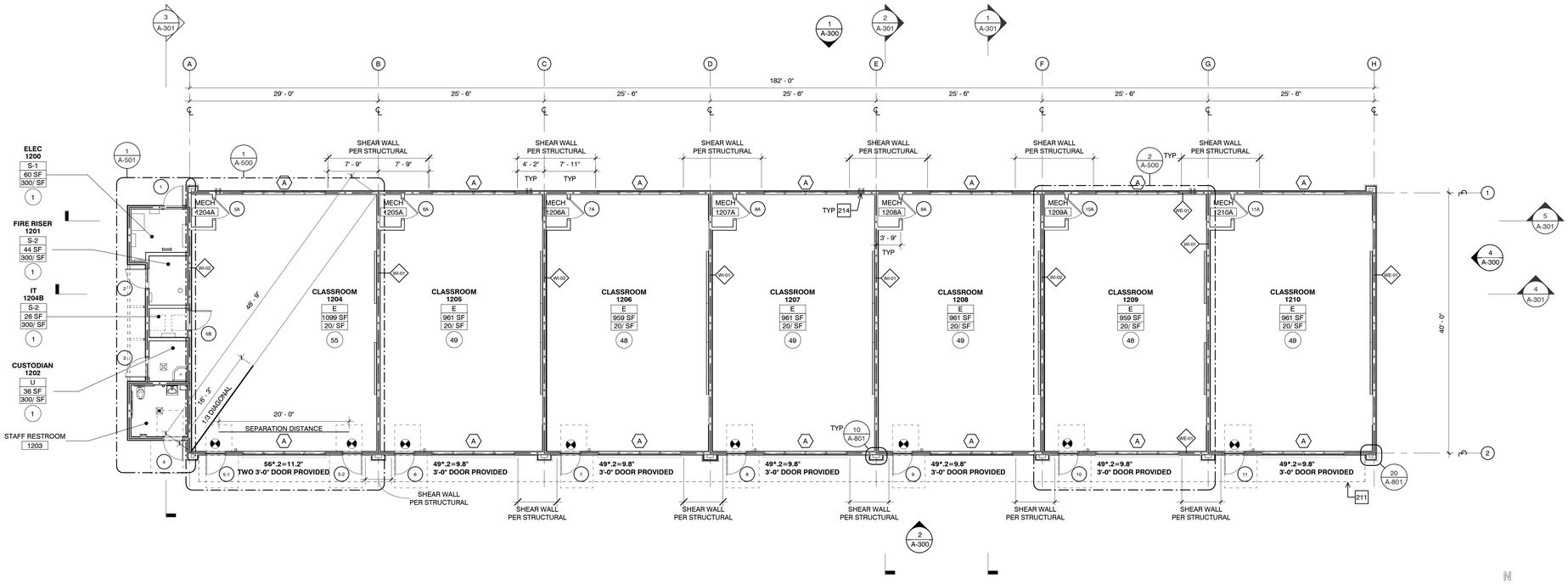
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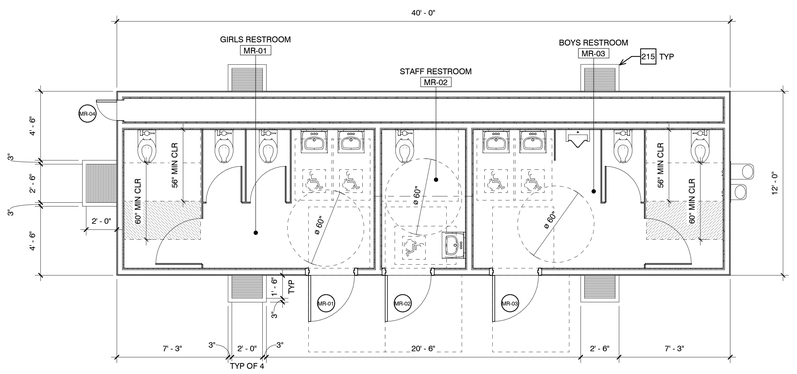
SHEET TITLE CURB PLAN

SHEET A-200



1 FLOOR PLAN - CLASSROOM BUILDING

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



2 (E) MODULAR RESTROOM PLAN

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

CRAWL SPACE VENTILATION

CRAWL SPACE VENTILATION (CBC CHAPTER 12):
1 SF OF VENTILATION FOR EACH 150 SF OR CRAWL SPACE AREA
VENTILATION SHALL BE PLACED TO PROVIDE CROSS VENTILATION OF THE UNDER-FLOOR SPACE

CRAWL SPACE AREA: 480 SF

VENTILATION AREA REQUIRED: 480 SF / 150 SF = 3.2 SF

VENTILATION PROVIDED:

HORIZONTAL VENTS AT WALKWAY (4) @ 20% NET FREE AREA = 2'-0" x 1'-6" * .20 = .60 SF/EA *4 = 2.40 SF/EA

CRAWLSPACE ACCESS VENTS (1) @ 20% NET FREE AREA = 2'-0" x 2'-6" * .20 = 1.0 SF/EA

TOTAL VENTILATION PROVIDED: 3.40 SF

KEYNOTES

211 METAL AWNING ROOF ABOVE

214 ROOF DRAIN AND OVERFLOW DOWNSPOUTS

215 VENT AND ACCESS PIT PER 30/A-801

OCCUPANCY LEGEND

CLASSROOM — ROOM NAME
201 — ROOM NUMBER
E — OCCUPANCY CLASSIFICATION
924 SF — AREA
20 / SF — OCCUPANT LOAD FACTOR
— ALLOWABLE OCCUPANTS

EXIT DOOR

LEGEND

2x6 WD FRAMED WALL (NOTE: GRIDLINE IS TO CL OF STUD)

1 HR RATED 2x6 WD FRAMED WALL

SURFACE MOUNTED FIRE EXTINGUISHER PER 8/A-902

TRUE NORTH

PROJECT NORTH

CODE ANALYSIS

PROPOSED AREAS & USES:	BUILDING PERIMETER	ROOF PROJECTIONS	GROSS AREA (GSF)
New Seven Classroom Building:	7,734 SF	755 SF	8489 GSF

OCCUPANCY GROUP: Classrooms — Group E — CBC Section 305.1

CONSTRUCTION TYPE: Type VA* — CBC Section 602.2
Sprinklered
* UPGRADE IN CONSTRUCTION TYPE AS PART OF ALTERNATE MEANS AND METHODS RELATING TO <1500 GPM FIRE FLOW GPM. ALLOWABLE BUILDING HEIGHT AND SQUARE FOOTAGE PER TYPE VB

FIRE-RESISTANCE RATING:

Ext Bearing Walls	1 hours	CBC Table 601
Int Bearing Walls	1 hours	
Nonbearing Int Partitions	0 hours	
Floor Construction	1 hours (not applicable)	
Roof Construction	1 hours	
Exterior Walls based on Fire Separation		CBC Table 602
X < 10 feet	1 hour (Not applicable)	
X ≥ 10 feet	0 hour	

ALLOWABLE AREAS AND BUILDING HEIGHTS:

Group E Occupancy	9,500 sf	40 feet	1 story	CBC Tables 506, 504.3 and 504.4
Actual Areas/Heights	see below	±17'-2"	1 story	

ALLOWABLE AREA INCREASES: CBC Section 506.2

Allowable Area (A/a):	A/a = [A/t + (NS x I/f)] x S/a	CBC Equation 5-2
	A/t = Tabular allowable area factor	CBC Table 506.2
	A/t = 9,500 SF	
	NS = Tabular allowable area factor for NS buildings	CBC Table 506.2
	NS = 9,500 SF	
	I/f = Area factor increase due to frontage	
	S/a = Actual stories above grade plane (2 max)	

Actual Area: 8489 GSF < 9,500 GSF - OK

BUILDING AREA AND OCCUPANT LOAD — CBC Table 1004.5

Classroom 1204:	1100 SF / 20 =	56 Occupants	(2 Exit Req'd)
Classroom 1205:	962 SF / 20 =	49 Occupants	(1 Exit Req'd)
Classroom 1206:	962 SF / 20 =	49 Occupants	(1 Exit Req'd)
Classroom 1207:	962 SF / 20 =	49 Occupants	(1 Exit Req'd)
Classroom 1208:	962 SF / 20 =	49 Occupants	(1 Exit Req'd)
Classroom 1209:	962 SF / 20 =	49 Occupants	(1 Exit Req'd)
Classroom 1210:	962 SF / 20 =	49 Occupants	(1 Exit Req'd)
TOTALS:	6872 SF	350 Occupants	

ACCESS TO A PUBLIC WAY: CBC Section 1028.5
EXIT DISCHARGE SHALL PROVIDE A DIRECT AND UNOBSTRUCTED ACCESS TO A PUBLIC WAY; ACCESSIBLE PATH OF TRAVEL EXITS TO PUBLIC SIDEWALKS AT SAN LUIS DRIVE TO SOUTH.

Assisted Listening System

1. GENERAL: ASSISTED LISTENING SYSTEMS (ALS) TO BE PROVIDED AT ASSEMBLY AREAS USED FOR THE PURPOSE OF ENTERTAINMENT, EDUCATIONAL OR CIVIC GATHERINGS, OR SIMILAR PURPOSES. FOR THE PURPOSES OF THESE REQUIREMENTS, ASSEMBLY AREAS INCLUDE CLASSROOMS PER 2019 CBC 202 (DEFINITION OF ASSEMBLY AREAS). PER 2019 CBC 11B-219.2, ASSISTIVE LISTENING SYSTEMS SHALL BE PROVIDED IN ASSEMBLY AREAS (SEE SECTION 275400).

2. PORTABLE ALS SYSTEM: A SINGLE PORTABLE SYSTEM WILL BE PROVIDED FOR SHARED USE PER 2019 CBC 11B-219.5 IN ALL CLASSROOMS WITHOUT FIXED SEATS.

3. NUMBER OF RECEIVERS: THE TOTAL NUMBER OF REQUIRED RECEIVERS IS BASED ON THE TOTAL NUMBER OF SEATS (OCCUPANTS) IN THE CLASSROOMS WITHIN THE BUILDING PER 2019 CBC 11B-219.3, EXCEPTION 1, CALCULATED AS FOLLOWS:

TOTAL SEATS: 277 SEATS (BASED ON OCCUPANT LOAD)
NUMBER OF RECEIVERS: 350 SEATS x 4% = 14 RECEIVERS
HEARING-AID COMPATIBLE: 14 RECEIVERS x 25% = 4 HEARING-AID COMPATIBLE

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LICENSED ARCHITECT JOE S. WILCOX No. C-9808 Renewal 08/31/2027 STATE OF CALIFORNIA

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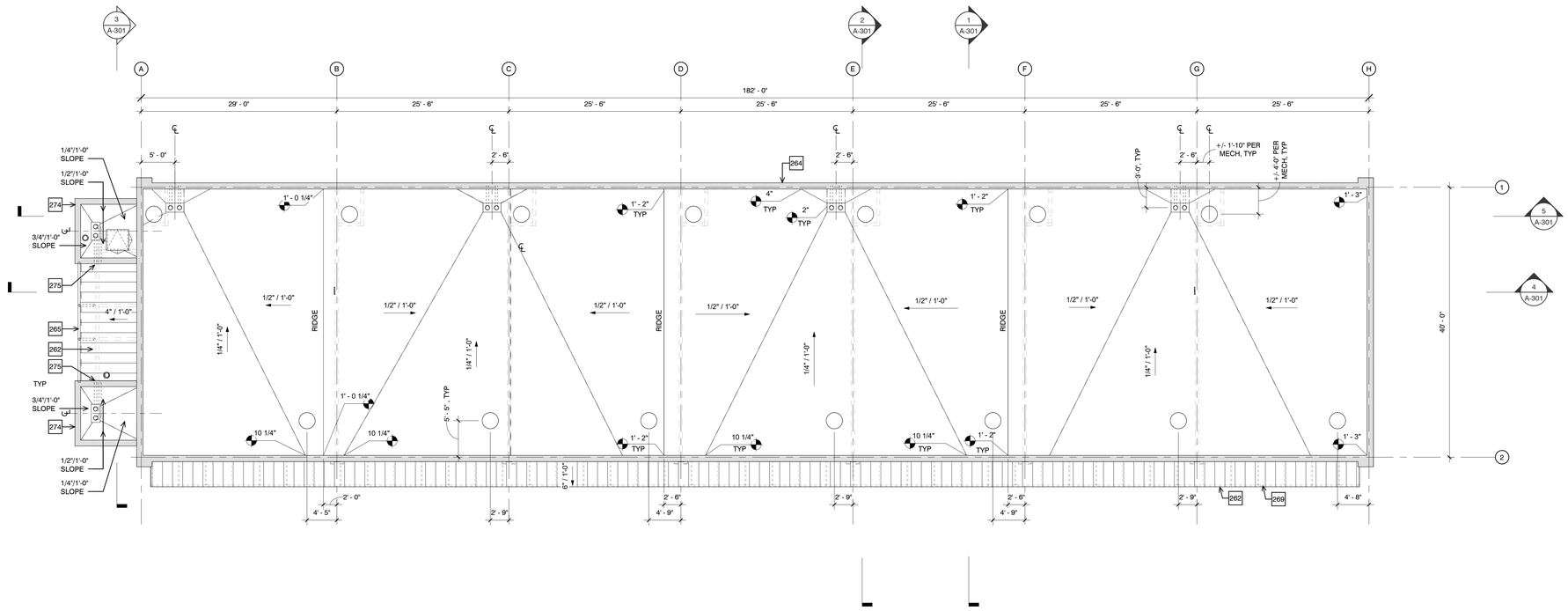
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SHEET TITLE FLOOR PLAN - CLASSROOM BLDG

SHEET A-201



1 ROOF PLAN - CLASSROOM BUILDING
SCALE: 1/8" = 1'-0"

TRUE NORTH

N
PROJECT NORTH

GENERAL NOTES

1. ---
2. ---

KEYNOTES

262	STANDING SEAM METAL ROOF
264	PARAPET PER 4/A-803
265	GUTTER PER STANDING SEAM ROOF MANUFACTURER
269	METAL ROOF STRUCTURE BELOW, 48" OC TYPICAL
274	PARAPET PER 6/A-803
275	LAMB'S TONGUE DRAIN & OVERFLOR PER 17/A-801, TYP

LEGEND

- PVC ROOF MEMBRANE o/ COVER BOARD o/ TAPERED INSULATION
- PARAPET FLASHING — 4, 6 / A-803
- STANDING SEAM METAL ROOF — 4 / A-803
- INTAKE/RELIEF HOOD — 2 / A-804, 1 / M-020
- ROOF JACK — 1 / A-804, 12 / M-020
- ROOF HATCH — 5 / A-804

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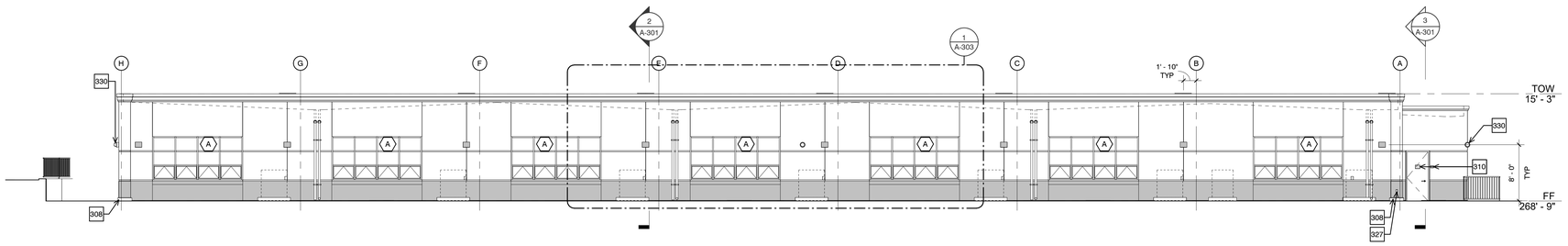
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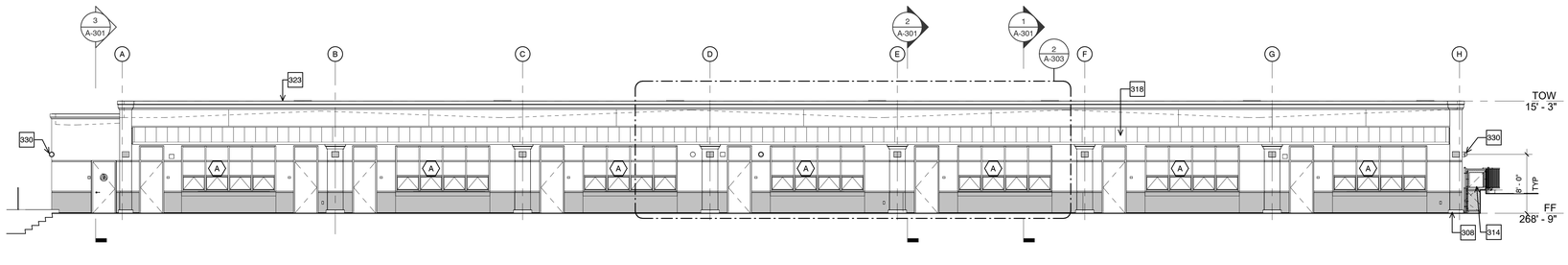
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SHEET TITLE ROOF PLAN - CLASSROOM BLDG

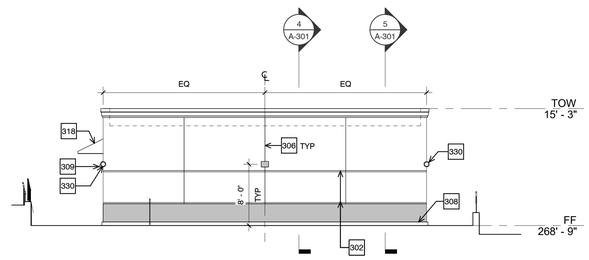
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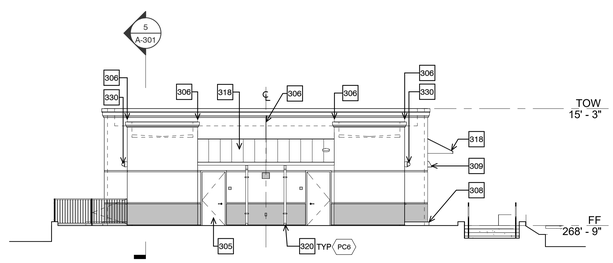
1 WEST ELEVATION
SCALE: 1/8" = 1'-0"



2 EAST ELEVATION
SCALE: 1/8" = 1'-0"



4 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



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

GENERAL NOTES

1. SEE ENLARGED ELEVATION FOR MATERIAL CALL-OUTS

KEYNOTES

302	METAL TRIM REVEAL PER 3/A-303
305	HOLLOW METAL DOOR PER SCHEDULE
306	VERTICAL CONTROL JOINT, TYP
308	CAST IN PLACE CONCRETE COLUMN BASE
309	WALL MOUNTED LIGHT FIXTURE PER ELECTRICAL
310	TACTILE SIGNS PER SIGNAGE PLAN
314	CHAIN LINK GATE PER 15/A-106
318	STANDING SEAM METAL ROOF PER 5/A-803
320	GALVANIZED PIPE DOWNSPOUT & OVERFLOW PER 12/A-105
323	SHEET METAL PARAPET FLASHING PER 4/A-803
327	GFI OUTLET PER ELECTRICAL
330	SECURITY CAMERA PER ELECTRICAL

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No. C-9808
Reg. 2027
STATE OF CALIFORNIA

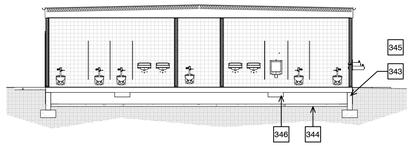
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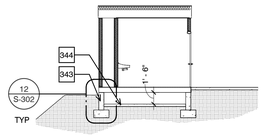
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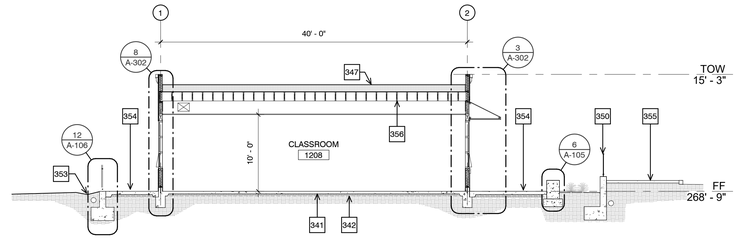
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A-300



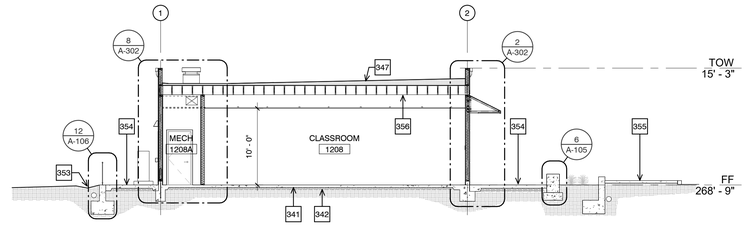
7 (E) PORTABLE RESTROOM SECTION
SCALE: 1/8" = 1'-0"



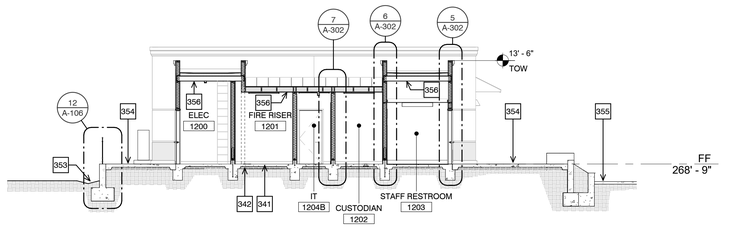
6 (E) PORTABLE RESTROOM SECTION
SCALE: 1/8" = 1'-0"



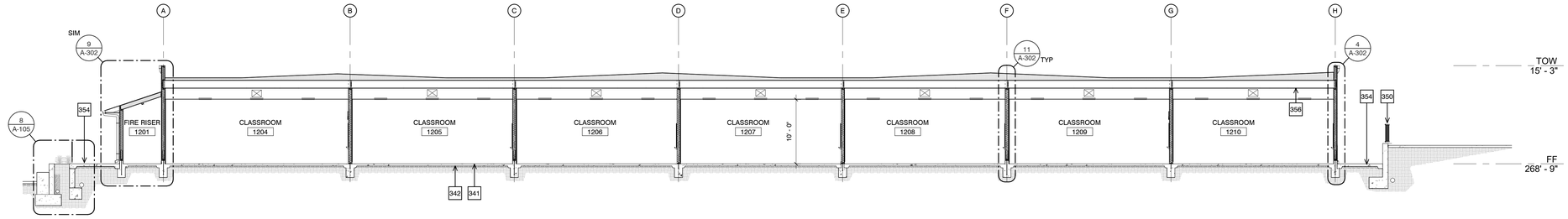
1 BUILDING SECTION
SCALE: 1/8" = 1'-0"



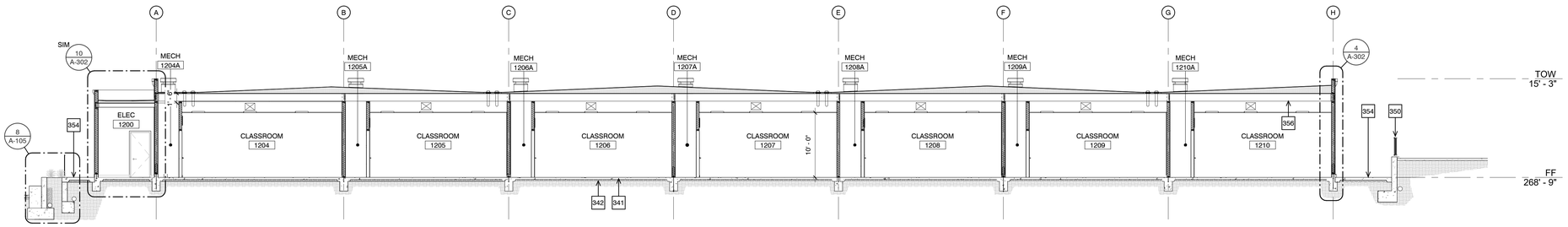
2 BUILDING SECTION
SCALE: 1/8" = 1'-0"



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



4 BUILDING SECTION
SCALE: 1/8" = 1'-0"



5 BUILDING SECTION
SCALE: 1/8" = 1'-0"

KEYNOTES #

341 4" CAST-IN-PLACE SLAB-ON-GRADE o/ 4" CLEAN SAND PER STRUCTURAL PER 15/S-101

342 REINFORCED VAPOR RETARDER PER 15/S-101

343 PERIMETER FOOTING PER S-203

344 RAT SLAB WITH DRAIN PER S-203

345 HI-LOW DRINKING FOUNTAIN PER 6/A-904

346 SUBFLOOR VENTILATION PER 8/S-302; VENT CALCULATION PER A-103

347 PVC ROOF MEMBRANE o/ COVER BOARD o/ TAPERED RIGID INSULATION

350 GUARD ATOP RETAINING WALL, GUARD PER 29/A-104, RETAINING WALL PER 7/S-302

353 ROCK LINED SWALE PER CIVIL

354 CONCRETE WALKWAY PER CIVIL

355 (E) CONCRETE WALKWAY, PROTECT IN PLACE

356 ONE HOUR ASSEMBLY - 5/8" TYPE X GYP BD (40 MINUTE PER TABLE 722.6.2) o/ ROOF JOISTS (10 MINUTE PER TABLE 722.6.2) w/ PLYWOOD DECK (15 MINUTE PER TABLE 722.6.2)

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KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
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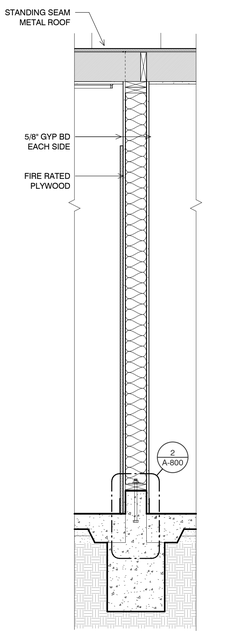
CONSULTANT INFORMATION

REVISION	DESCRIPTION	DATE	BY
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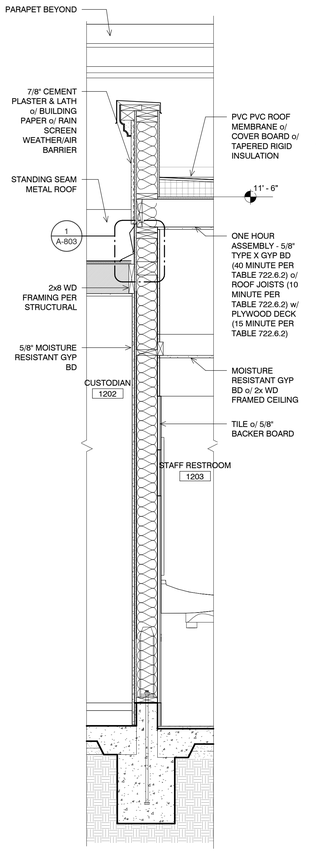
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DATE 08/01/26
JOB. NO. 24010

SHEET TITLE BUILDING SECTIONS - CLASSROOM BLDG

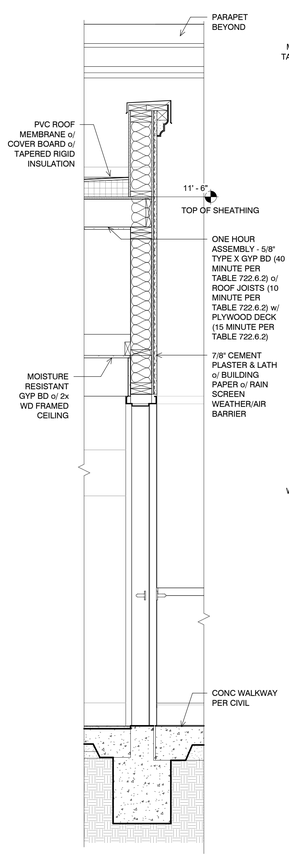
SHEET A-301



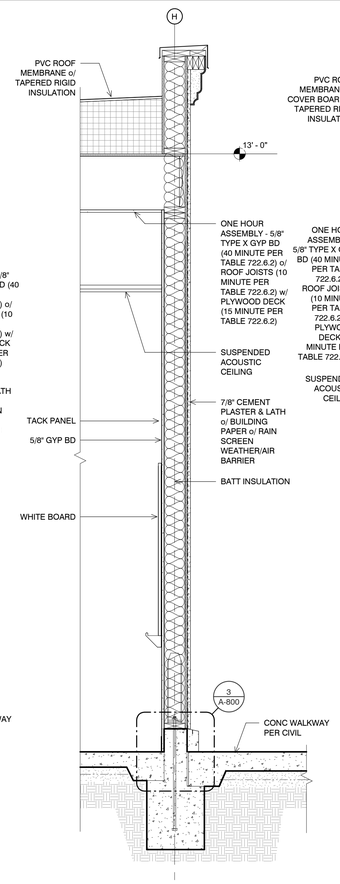
7 WALL SECTION
SCALE: 3/4" = 1'-0"



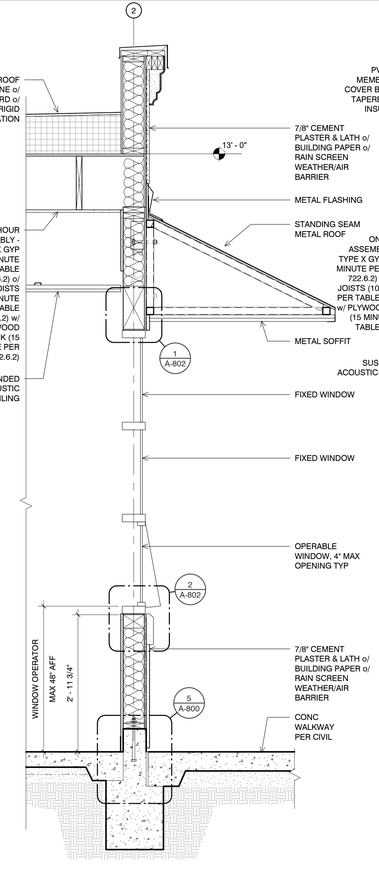
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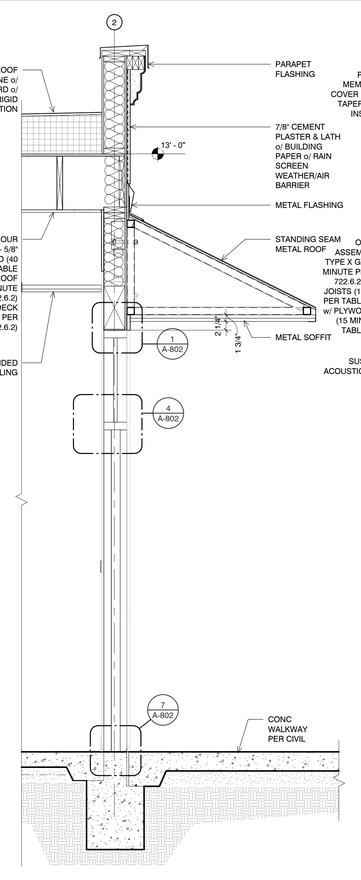
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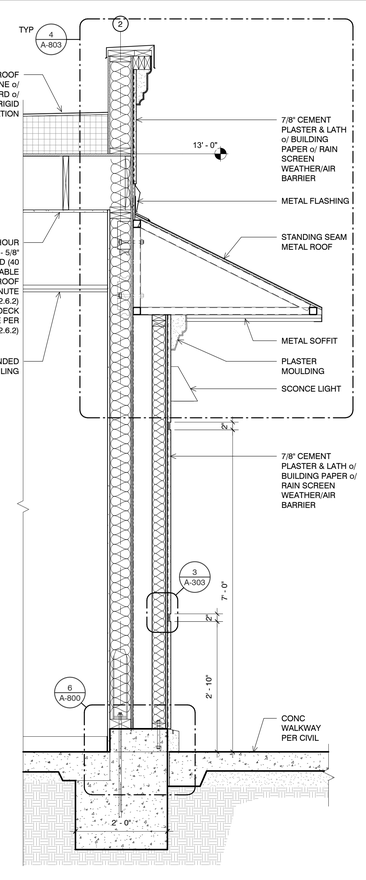
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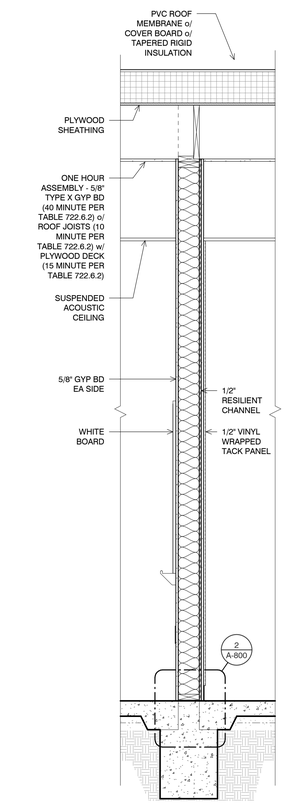
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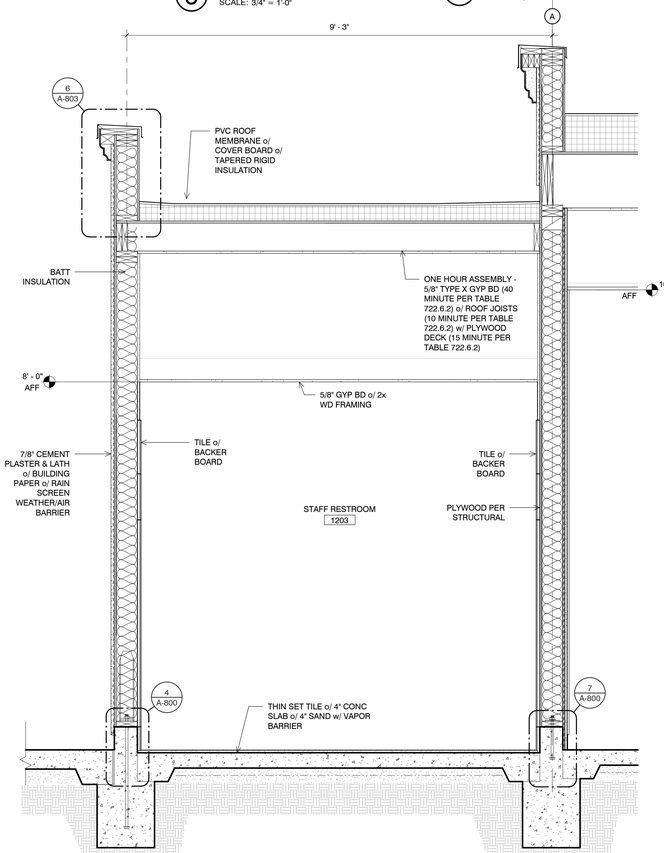
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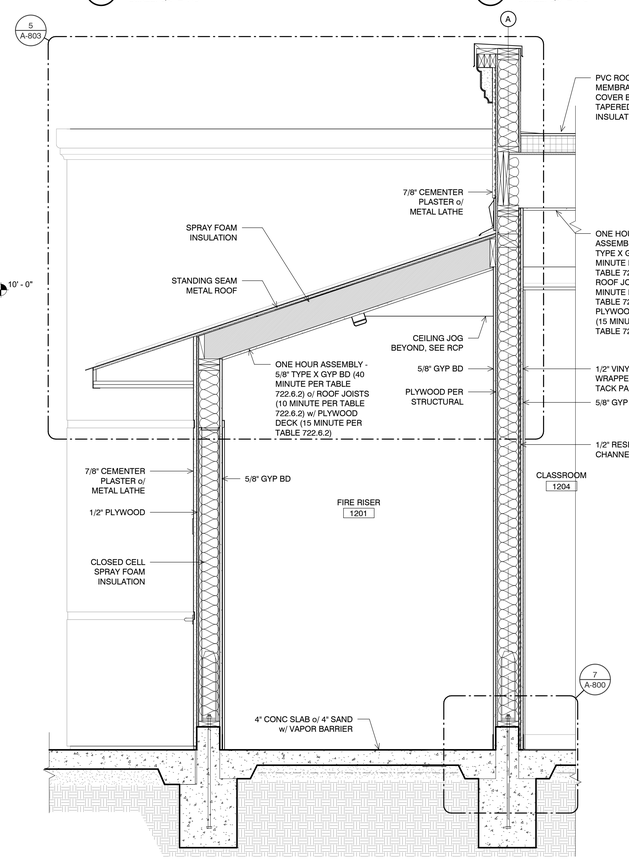
1 WALL SECTION
SCALE: 3/4" = 1'-0"



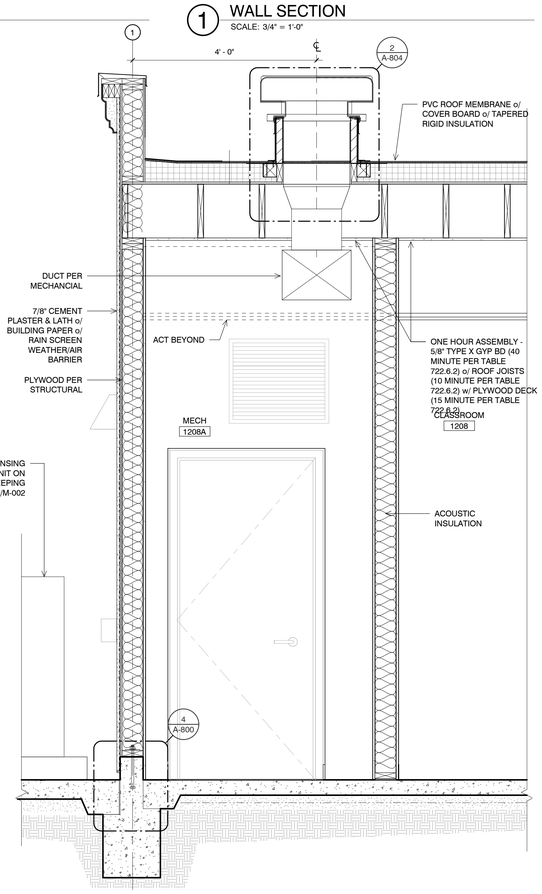
11 WALL SECTION
SCALE: 3/4" = 1'-0"



10 WALL SECTION
SCALE: 3/4" = 1'-0"



9 WALL SECTION
SCALE: 3/4" = 1'-0"



8 WALL SECTION
SCALE: 3/4" = 1'-0"

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DATE: 07/01/2026

SAN LUIS OBISPO HIGH SCHOOL
SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT
1499 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401

NEW CLASSROOM BUILDING & RELOCATION OF MODULAR RESTROOM

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELLAGA STREET SANTA BARBARA CA 93101
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ENGINEERS STAMP & SIGNATURE

LICENSED ARCHITECT JOE S. WILCOX M-29808 Ren. 12/27 STATE OF CALIFORNIA

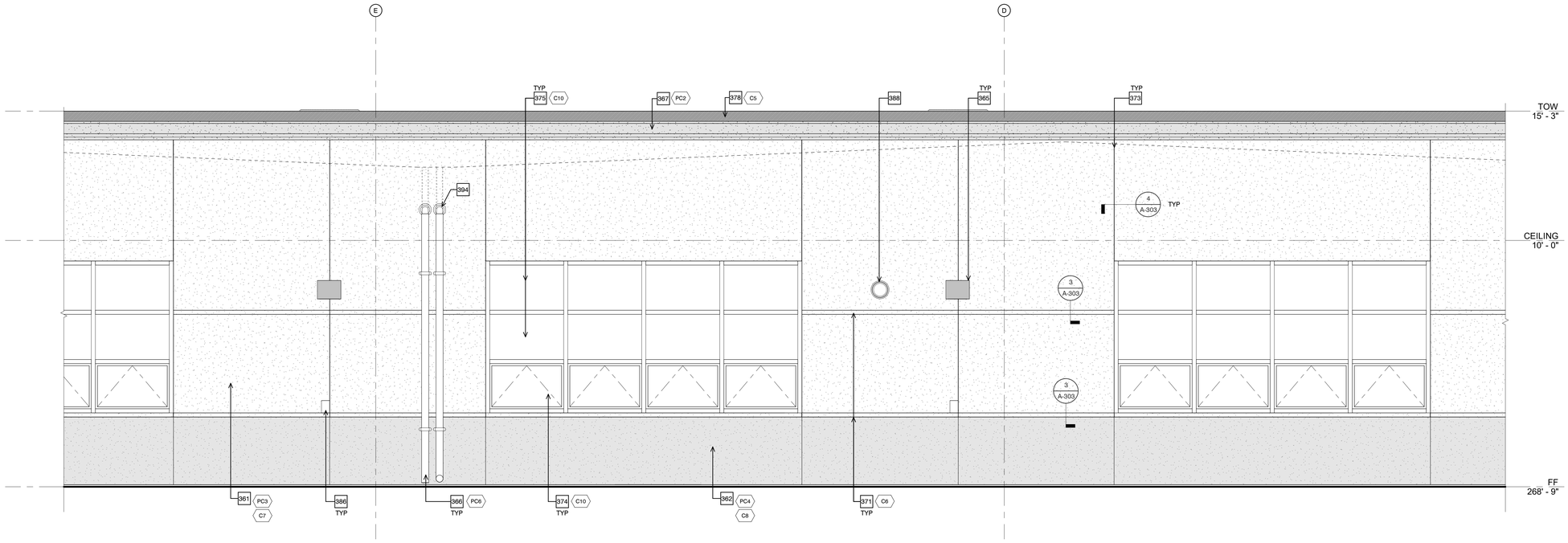
CONSULTANT INFORMATION

REVISION	DESCRIPTION	DATE	BY
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DRAWN	TA
CHECKED	MG/JW
DATE	06/01/26
JOB. NO.	24010

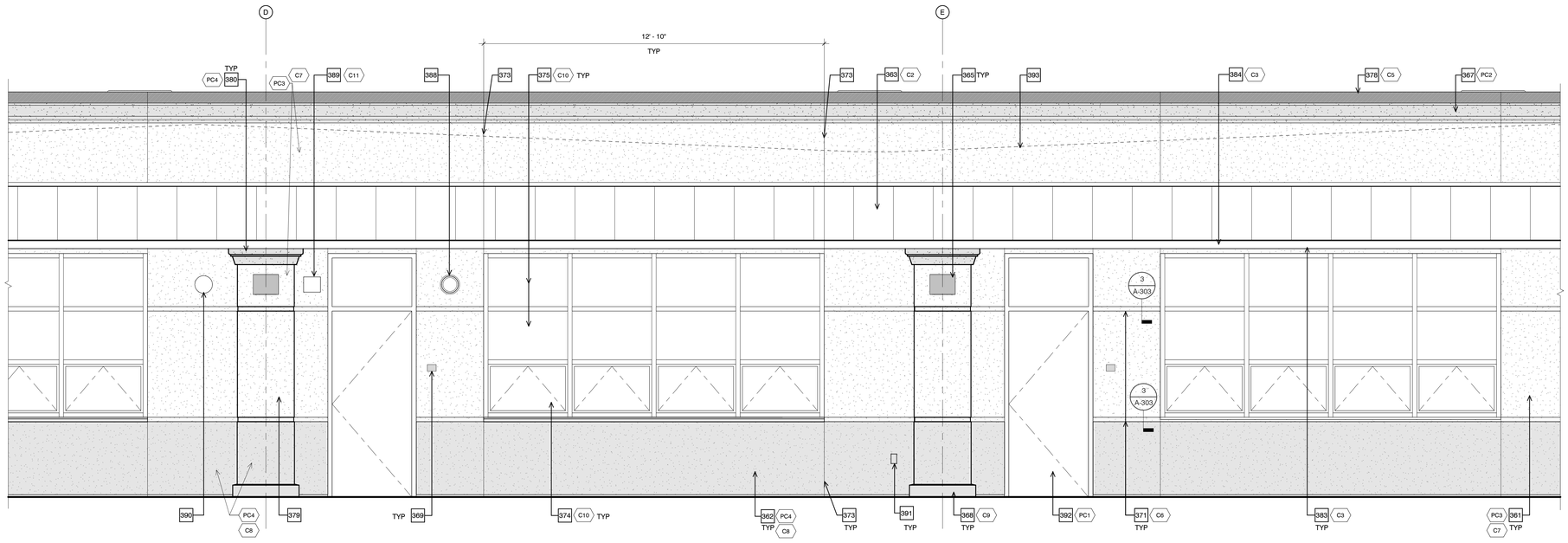
SHEET TITLE: WALL SECTIONS - CLASSROOM BLDG

SHEET
A-302



1 ENLARGED ELEVATION - CLASSROOM BUILDING WEST

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



2 ENLARGED ELEVATION - CLASSROOM BUILDING EAST

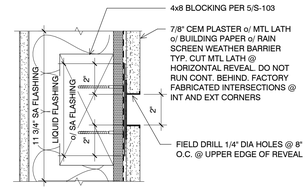
SCALE: 1/2" = 1'-0"

KEYNOTES

361	7/8" CEMENT PLASTER & LATH o BUILDING PAPER o/ RAIN SCREEN WEATHER/AIR BARRIER, FIELD COLOR PER FINISH SCHEDULE
362	7/8" CEMENT PLASTER & LATH o BUILDING PAPER o/ RAIN SCREEN WEATHER/AIR BARRIER, INTEGRAL ACCENT COLOR PER FINISH SCHEDULE
363	STANDING SEAM METAL ROOF
365	LIGHT FIXTURE PER ELECTRICAL
366	ROOF DRAINS PER 12/A-105
367	PARAPET MOULDING PER 3 & 4/A-803
368	CAST IN PLACE CONCRETE PILASTER BASE
369	SIGNAGE PER A-900
371	HORIZONTAL JOINT PER 3/A-303
373	VERTICAL CONTROL JOINT PER 4/A-303
374	AWNING WINDOWS, 4" MAX PROJECTION OPENING PER SCHEDULE
375	FIXED WINDOWS PER SCHEDULE
378	PRE-FINISHED METAL PARAPET CAP PER 4/A-803
379	PILASTER
380	PILASTER CAPITAL
383	METAL SOFFIT PANELS @ UNDERSIDE OF SOFFIT
384	FLASHING REGLET
386	DISCONNECT SWITCH PER ELECTRICAL
388	SECURITY CAMERA PER ELECTRICAL
389	INTERCOM PER ELECTRICAL
390	WIRELESS ACCESS POINT PER ELECTRICAL
391	OUTLET PER ELECTIRCAL
392	HOLLOW METAL DOOR PER DOOR SCHEDULE, FINISH PER FINISH SCHEDULE
393	LINE OF SINGLE PLY ROOF BEYOND
394	ROOF DRAIN THROUGH WALL PER 16/A-801

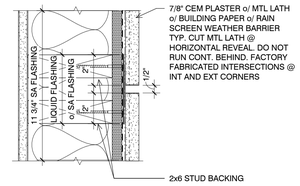
NOTE:

XX SEE SHEET A-402 FOR FINISH LEGEND



3 HORIZONTAL CONTROL JOINT

SCALE: 3" = 1'-0"



4 VERTICAL CONTROL JOINT

SCALE: 3" = 1'-0"

SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT
1499 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401

SAN LUIS OBISPO HIGH SCHOOL
NEW CLASSROOM BUILDING
RELOCATION OF MODULAR RESTROOM

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125456 INC:
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LICENSED ARCHITECT JOE S. WILCOX No. C-9808 Reg. Exp. 8-31-27 STATE OF CALIFORNIA

CONSULTANT INFORMATION

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DATE 06/01/26
JOB. NO. 24010

SHEET TITLE ENLARGED ELEVATIONS - CLASSROOM BLDG

SHEET

A-303

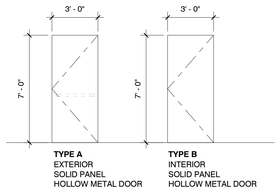
DOOR & FRAME SCHEDULE

DOOR NO.	DOOR OPENING		DOOR					CUTOUTS		HDWR GROUP	ASS'Y FIRE RATING	FRAME				DETAIL			REMARKS
	W	H	TYPE	MAT'L	THICK	FINISH	COLOR	LITE	LVR			TYPE	MAT'L	FINISH	COLOR	HEAD	JAMB	SILL	
1	3' - 0"	7' - 0"	B	HM	1 3/4"	P7B	PC1	-	-	04	-	B	HM	P7B	PC1	10/A-802	5/A-802	7/A-802	
2	3' - 0"	7' - 0"	B	HM	1 3/4"	P7B	PC1	-	-	04	-	B	HM	P7B	PC1	10/A-802	5/A-802	7/A-802	
3	3' - 0"	7' - 0"	B	HM	1 3/4"	P7B	PC1	-	-	04	-	B	HM	P7B	PC1	10/A-802	5/A-802	7/A-802	
4	3' - 0"	7' - 0"	B	HM	1 3/4"	P7B	PC1	-	-	05	-	B	HM	P7B	PC1	11/A-802	6/A-802	8/A-802	
5.1	3' - 0"	7' - 0"	A	HM	1 3/4"	P7B	PC1	-	-	01	-	A	HM	P7B	PC1	4,12/A-802	5/A-802	7/A-802	PANIC HARDWARE
5.2	3' - 0"	7' - 0"	A	HM	1 3/4"	P7B	PC1	-	-	01	-	A	HM	P7B	PC1	4,12/A-802	5/A-802	7/A-802	PANIC HARDWARE
5A	3' - 0"	7' - 0"	B	HM	1 3/4"	P28B	PC5	-	-	03	-	B	HM	P28B	PC5	14/A-802	9/A-802	13/A-802	
5B	3' - 0"	7' - 0"	B	HM	1 3/4"	P28B	PC5	-	-	03	-	B	HM	P28B	PC5	15/A-802	16/A-802	13/A-802	
6	3' - 0"	7' - 0"	A	HM	1 3/4"	P7B	PC1	-	-	02	-	A	HM	P7B	PC1	4,12/A-802	5/A-802	7/A-802	
6A	3' - 0"	7' - 0"	B	HM	1 3/4"	P28B	PC5	-	-	03	-	B	HM	P28B	PC5	14/A-802	9/A-802	13/A-802	
7	3' - 0"	7' - 0"	A	HM	1 3/4"	P7B	PC1	-	-	02	-	A	HM	P7B	PC1	4,12/A-802	5/A-802	7/A-802	
7A	3' - 0"	7' - 0"	B	HM	1 3/4"	P28B	PC5	-	-	03	-	B	HM	P28B	PC5	14/A-802	9/A-802	13/A-802	
8	3' - 0"	7' - 0"	A	HM	1 3/4"	P7B	PC1	-	-	02	-	A	HM	P7B	PC1	4,12/A-802	5/A-802	7/A-802	
8A	3' - 0"	7' - 0"	B	HM	1 3/4"	P28B	PC5	-	-	03	-	B	HM	P28B	PC5	14/A-802	9/A-802	13/A-802	
9	3' - 0"	7' - 0"	A	HM	1 3/4"	P7B	PC1	-	-	02	-	A	HM	P7B	PC1	4,12/A-802	5/A-802	7/A-802	
9A	3' - 0"	7' - 0"	B	HM	1 3/4"	P28B	PC5	-	-	03	-	B	HM	P28B	PC5	14/A-802	9/A-802	13/A-802	
10	3' - 0"	7' - 0"	A	HM	1 3/4"	P7B	PC1	-	-	02	-	A	HM	P7B	PC1	4,12/A-802	5/A-802	7/A-802	
10A	3' - 0"	7' - 0"	B	HM	1 3/4"	P28B	PC5	-	-	03	-	A	HM	P28B	PC5	14/A-802	9/A-802	13/A-802	
11	3' - 0"	7' - 0"	A	HM	1 3/4"	P7B	PC1	-	-	02	-	A	HM	P7B	PC1	4,12/A-802	5/A-802	7/A-802	
11A	3' - 0"	7' - 0"	B	HM	1 3/4"	P28B	PC5	-	-	03	-	B	HM	P28B	PC5	14/A-802	9/A-802	13/A-802	
MR-01	3' - 0"	7' - 0"		HM	1 3/4"			-	-		-								
MR-02	3' - 0"	7' - 0"		HM	1 3/4"			-	-		-								
MR-03	3' - 0"	7' - 0"		HM	1 3/4"			-	-		-								
MR-04	1' - 4"	7' - 0"		HM	1 1/2"			-	-		-								

CLASSROOM BLDG

(E) MODULAR RESTROOM BLDG

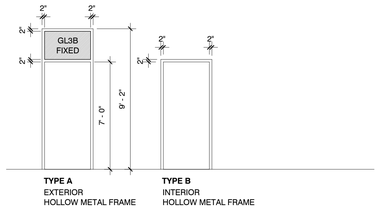
Door Types



TYPE A
EXTERIOR
SOLID PANEL
HOLLOW METAL DOOR

TYPE B
INTERIOR
SOLID PANEL
HOLLOW METAL DOOR

Frame Types



TYPE A
EXTERIOR
HOLLOW METAL FRAME

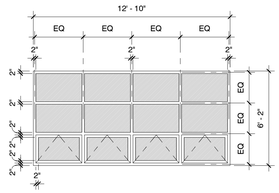
TYPE B
INTERIOR
HOLLOW METAL FRAME

WINDOW SCHEDULE

TYPE	NOMINAL SIZE		FRAME			GLASS		SCREEN	ASS'Y FIRE RATING	DETAILS				REMARKS
	WIDTH	HEIGHT	MAT'L	FIN	COLOR	TYPE	THK			HEAD	L JAMB	R JAMB	SILL	
A	12'-10"	6' - 2"	ALUM	FF	C10	GL3B	1"	Y		1/A-802	3/A-802	3/A-802	2/A-802	

(1) VERIFY ROUGH OPENING DIMENSION WITH WINDOW MANUFACTURER
(2) REFER TO GLAZING SCHEDULE IN THE SPECIFICATIONS

Window Types



TYPE A
FIXED + AWNING

SCREENS AT AWNING ONLY

(4" MAX PROJECTION AT OPERABLE UNIT)

GLAZING TYPES

GL3B 1" DUAL (INSULATING) FULLY-TEMPERED GLASS w/ CLEAR LOWER & CLEAR INNER LITE (SEE SPECIFICATION SECTION 085113 & 088000)

DOOR & FRAME NOTES

1. SEE PAINT COLOR LEGEND ON SHEET A-402
2. VERIFY ALL ROUGH OPENINGS DIMENSIONS PRIOR TO FABRICATION
3. ALL DOORS AND GATES WITHIN THE ACCESSIBLE PATH OF TRAVEL SHALL HAVE LEVER HARDWARE U.O.N. DOOR HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES SHALL BE INSTALLED MINIMUM 34" AND MAXIMUM 44" ABOVE FINISH FLOOR. (CBC 1008.1.9.2)
4. ALL PEDESTRIAN DOORS AND GATES WITHIN THE ACCESSIBLE PATH OF TRAVEL SHALL BE PROVIDED WITH A KICKPLATE AT THE BOTTOM 10 INCHES OF THE PUSH SIDE OF THE DOOR/GATE
5. ALL EXIT DOORS SHALL BE OPENABLE FROM INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE (CBC 1008.1.9) AND THE FORCE REQUIRED TO PUSH OR PULL AN EGRESS DOOR TO THE OPEN POSITION SHALL NOT EXCEED 5 POUND (CBC 1008.1.3)
6. GLAZING IN DOORS OR WITHIN 40" OF ANY DOOR LOCKING MECHANISM SHALL BE FULLY TEMPERED SAFETY GLASS
7. ALL GLAZING IN EXTERIOR DOORS & WINDOWS SHALL HAVE A MAXIMUM SHGC-VALUE OF 0.29 AND A MAXIMUM U-VALUE OF 0.29. MANUFACTURED WINDOWS SHALL BE CERTIFIED AND LABELED TO SHOW COMPLIANCE WITH THESE STANDARDS
8. SEE PAINT SCHEDULE IN SECTION 099100 FOR PAINT FINISH CODES

ABBREVIATIONS

FF	FACTORY FINISH
GALV	GALVANIZED
HM	HOLLOW METAL
MTL	METAL
STL	STEEL

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SHEET TITLE DOOR & WINDOW SCHEDULES

SHEET A-401

ROOM FINISH SCHEDULE

CLASSROOM BLDG

ROOM NO.	ROOM NAME	FLOOR				BASE			WAINSCOT				WALLS												CEILING				REMARKS
													NORTH			EAST			SOUTH			WEST							
		SUBFLOOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEIGHT	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEIGHT	
1200	ELEC	F1	-	CS	-	B1	FF	C14	-	-	-	-	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	CL2	-	-	-	
1201	FIRE RISER	F1	-	CS	-	B1	FF	C14	-	-	-	-	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	CL2	-	-	-	
1202	CUSTODIAN	F1	-	CS	-	B1	FF	C14	W4	FF	C15	4' - 0"	W7	P25B	PC5	W7	P25B	PC5	W7	PC5	PC5	W7	P25B	PC5	CL2	-	-	-	1
1203	STAFF RESTROOM	F1	F2	FF	T1	B2	FF	T3	W3	FF	T2	±7' - 0"	W2	P25B	PC5	W2	P25B	PC5	W2	PC5	PC5	W2	P25B	PC5	CL4	P25B	PC5	8' - 0"	2
1204	CLASSROOM	F3	-	CP	C13	B1	FF	C14	-	-	-	-	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	CL1	FF	C12	10' - 0"	3
1204A	MECH	F1	-	CS	-	B1	FF	C14	-	-	-	-	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	CL2	-	-	-	
1204B	IT	F1	-	CS	-	B1	FF	C14	W5	P32H	PC5	8' - 0"	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	CL2	-	-	-	1
1205	CLASSROOM	F3	-	CP	C13	B1	FF	C14	-	-	-	-	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	CL1	FF	C12	10' - 0"	3
1205A	MECH	F1	-	CS	-	B1	FF	C14	-	-	-	-	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	CL2	-	-	-	
1206	CLASSROOM	F3	-	CP	C13	B1	FF	C14	-	-	-	-	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	CL1	FF	C12	10' - 0"	3
1206A	MECH	F1	-	CS	-	B1	FF	C14	-	-	-	-	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	CL2	-	-	-	
1207	CLASSROOM	F3	-	CP	C13	B1	FF	C14	-	-	-	-	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	CL1	FF	C12	10' - 0"	3
1207A	MECH	F1	-	CS	-	B1	FF	C14	-	-	-	-	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	CL2	-	-	-	
1208	CLASSROOM	F3	-	CP	C13	B1	FF	C14	-	-	-	-	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	CL1	FF	C12	10' - 0"	3
1208A	MECH	F1	-	CS	-	B1	FF	C14	-	-	-	-	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	CL2	-	-	-	
1209	CLASSROOM	F3	-	CP	C13	B1	FF	C14	-	-	-	-	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	CL1	FF	C12	10' - 0"	3
1209A	MECH	F1	-	CS	-	B1	FF	C14	-	-	-	-	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	CL2	-	-	-	
1210	CLASSROOM	F3	-	CP	C13	B1	FF	C14	-	-	-	-	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	CL1	FF	C12	10' - 0"	3
1210A	MECH	F1	-	CS	-	B1	FF	C14	-	-	-	-	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	W1	P25B	PC5	CL2	-	-	-	

MATERIALS LEGEND

SUBFLOOR / FLOORING	F1	CONCRETE SLAB / SUBFLOOR
	F2	MOSAIC TILE
	F3	POLISHED CONCRETE
BASE	B1	4"H RESILIENT BASE
	B2	PORCELAIN MOSAIC TILE COVE BASE
WALLS	W1	5/8" GYPSUM BOARD
	W2	CEMENTITIOUS BACKER BOARD
	W3	CERAMIC TILE WAINSCOT
	W4	FRP WAINSCOT
	W5	3/4" PLYWOOD WAINSCOT, FIRE RETARDANT TREATED
	W6	1/2" VINYL-WRAPPED TACK PANELS o/ 5/8" GYPSUM BOARD
	W7	5/8" MOISTURE-RESISTANT TYPE X GYP BOARD
CEILINGS	CL1	24" x 48" SUSPENDED ACOUSTIC PANEL CEILING
	CL2	OPEN TO STRUCTURE ABOVE
	CL3	5/8" GYPSUM BOARD
	CL4	MOISTURE-RESISTANT 5/8" GYPSUM BOARD
FINISH	FF	FACTORY FINISH
	CS	INTERIOR CONCRETE SEALER
	CP	CONCRETE POLISHED
PAINT FINISH	P7B	EXTERIOR PAINT: METAL, SEMI-GLOSS
	P25B	INTERIOR PAINT: GYPSUM BOARD, SEMI-GLOSS
	P28B	INTERIOR PAINT: METAL, SEMI-GLOSS
	P32H	INTERIOR PAINT: WOOD, FIRE RESISTANT, MATTE

GENERAL NOTES

1. DIRECTIONAL LOCATIONS INDICATED ON ROOM FINISH SCHEDULES ARE ORIENTED ACCORDING TO REFERENCE NORTH AS SHOWN ON PLANS
2. PROVIDE TRANSITIONS AT ALL FLOORING MATERIAL CHANGES
3. ALL MATERIALS TO MEET 2022 CBC TABLE 8A FOR FLAME SPREAD
4. THERMAL & ACOUSTICAL INSULATION SHALL COMPLY WITH CBC SECTION 720

COLOR SELECTION

NOTE: COLOR SELECTION IS FOR BIDDING PURPOSES ONLY; COLORS WILL BE FINALIZED DURING SUBMITTAL REVIEW PROCESS

TILE & GROUT COLORS

TILE MFR BASIS-OF-DESIGN: DALTILE

- T1 — FLOOR TILE: KEYSTONES, 1" x 1" COLOR: WHEAT BLEND
- T2 — WALL FIELD TILE: KEYSTONES, 2" x 2" COLOR: DESERT GRAY SPECKLE
- T3 — COVE BASE TILE: KEYSTONES, 2" x 2" COLOR: DESERT GRAY SPECKLE
- T4 — WAINSCOT ACCENT TILE: KEYSTONES, 1" x 1" COLOR: WHEAT BLEND

EPOXY GROUT MFR BASIS-OF-DESIGN: CUSTOM BLDG PRODUCTS

- G1 — EPOXY FLOOR GROUT: CONTINUE 6" UP WALL COLOR: 19 PEWTER
- G2 — EPOXY WALL GROUT COLOR: 165 DELOREAN GRAY

PAINT COLORS

PAINT MFR: BASIS-OF-DESIGN, SHERWIN WILLIAMS

PC1	SW 6153	PROTEGE BRONZE 207-C7
PC2	SW 6109	HOPSACK 204-C5
PC3	SW 6141	SOFTER TAN 206-C1
PC4	SW 6109	HOPSACK 204-C5
PC5	SW 00012	PEARL, CUSTOM MATCH
PC6	SW XXXXX	CUSTOM COLOR TO MATCH C4

PREFINISHED COLORS

BASIS-OF-DESIGN MFR AS INDICATED

- C1 — PVC THERMOPLASTIC MEMBRANE ROOFING: SARNAFIL/SIKA COLOR: ENERGYSMART FELTBACK, WHITE
- C2 — STANDING SEAM ROOF: AEP-SPAN DURA TECH 5000 COLOR: COOL DARK BRONZE
- C3 — METAL SOFFIT PANELS & FASCIA @ EXTERIOR: AEP-SPAN, DURA TECH 5000 COLOR: COOL SILVERSMITH
- C4 — GUTTERS/DOWNSPOUTS INCLUDING STRAPS, SUPPORTS, COLLECTOR HEADS & MISC. ACCESSORIES: AEP-SPAN DURA TECH 5000 COLOR: COOL DARK BRONZE
- C5 — PRE-FINISHED METAL PARAPET CAP: TAYLOR METAL PRODUCTS, KYNAR 500 COLOR: CUSTOM COLOR TO MATCH PC2
- C6 — HORIZONTAL REVEALS IN EXTERIOR PLASTER COLOR: CLEAR ANODIZED
- C6A — CUSTOM COLOR FLASHING COLOR: CUSTOM COLOR TO MATCH PAINT COLOR PC3
- C7 — INTEGRAL COLOR PLASTER (FIELD): LA HABRA COLOR: X-55 FRENCH VANILLA
- C8 — INTEGRAL COLOR PLASTER (ACCENT): LA HABRA COLOR: X-81585 CHARLESTON
- C9 — PRECAST CONCRETE BASE: COLOR: DAVIS PALOMINO 5447
- C10 — ALUMINUM WINDOWS: ARCADIA COLOR: DARK BRONZE, AB-6
- C11 — EXTERIOR LIGHT FIXTURES: HUBBELL GEOPAK SERIES 1 COLOR: DARK BRONZE MATTE TEXTURED
- C12 — SUSPENDED ACOUSTIC CEILING PANELS & GRID: ARMSTRONG WORLD INDUSTRIES, SCHOOL ZONE FINE FISSURED COLOR: WHITE
- C13 — POLISHED CONCRETE COLOR: NATURAL GRAY
- C14 — RESILIENT BASE & TRANSITIONS: TARKETT/JOHNSONITE COLOR: 40 BLACK
- C15 — FRP WALL SURFACING: MARLITE COLOR: P-100 WHITE, PEBBLED
- C16 — METAL EDGE PROTECTION @ TILE: SCHLUTER, RONDEC COLOR: SATIN ANODIZED ALUMINUM
- C17 — VINYL - WRAPPED TACK PANELS; KOROSEAL INSIGHT COLOR: 6322-91 SHIMMER
- C18 — SIGNAGE: ROWMARK 398 GRAPHITE
- C19 — SIGNAGE: ROWMARK 201 WHITE

KEYNOTES

1. SEE INTERIOR ELEVATIONS FOR EXTENT OF WAINSCOT
2. SEE TYP TILE WAINSCOT DETAIL — 7 / A-501
3. SEE INTERIOR ELEVATIONS FOR VINYL-WRAPPED TACK PANEL LOCATIONS

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SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT

SAN LUIS OBISPO HIGH SCHOOL

1489 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401

NEW CLASSROOM BUILDING & RELOCATION OF MODULAR RESTROOM

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
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PROJECT MANAGER

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ENGINEERS STAMP & SIGNATURE



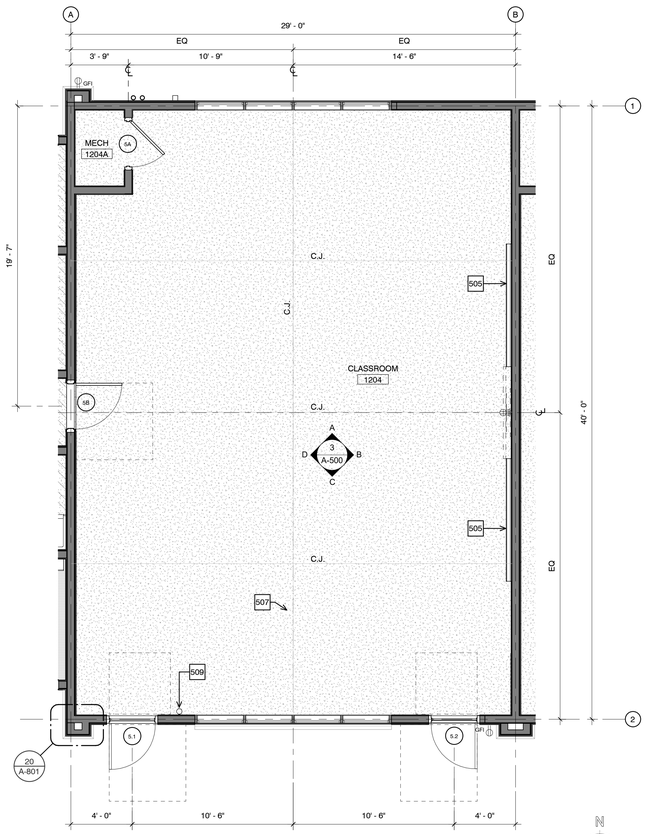
CONSULTANT INFORMATION

REVISION	DESCRIPTION	DATE	BY
5			
4			
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1			

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CHECKED MG/JW
DATE 06/01/26
JOB. NO. 24010

SHEET TITLE ROOM FINISH SCHEDULE AND MATERIAL, COLOR & FINISH LEGENDS

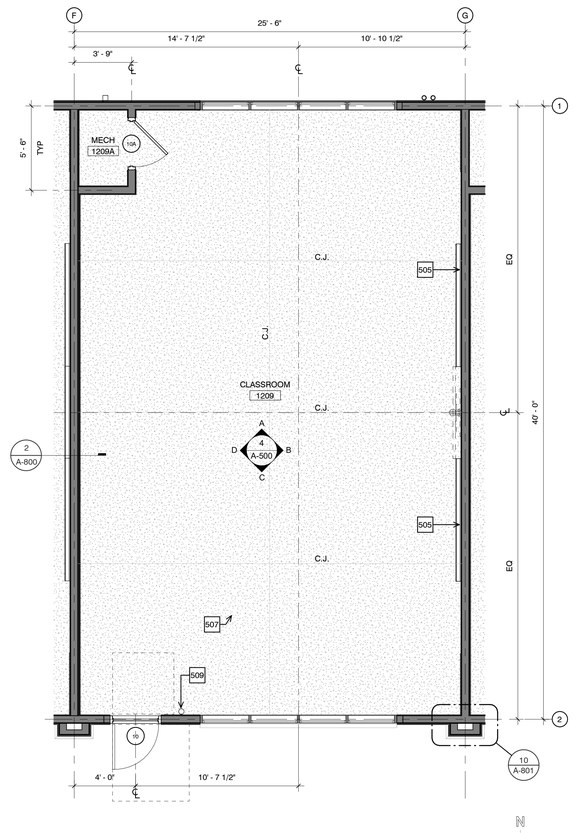
SHEET A-402



1 ENLARGED PLAN - CLASSROOM 1204

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

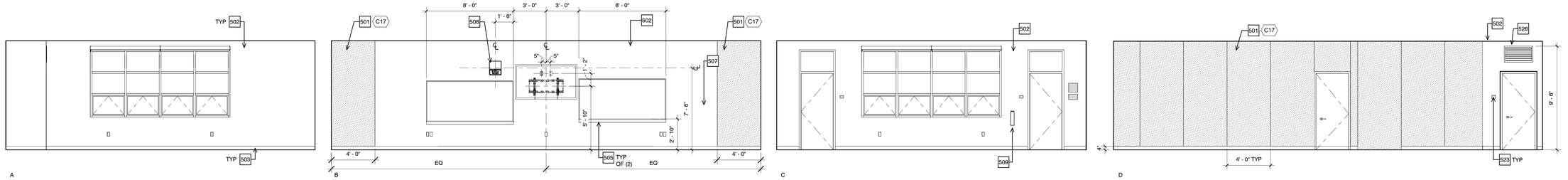
PROJECT NORTH



2 ENLARGED PLAN - TYP CLASSROOM

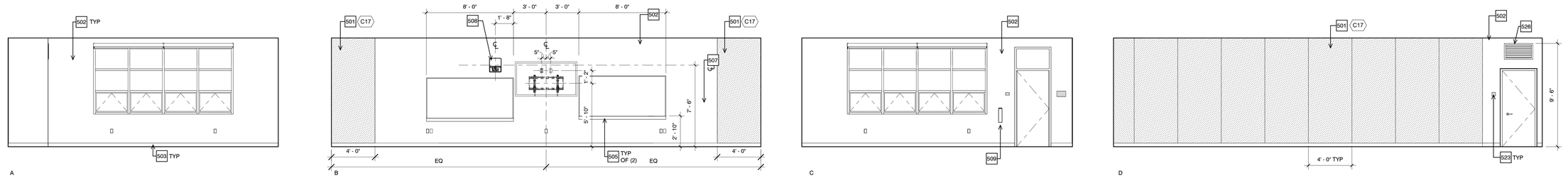
SCALE: 1/4" = 1'-0"

PROJECT NORTH



3 INTERIOR ELEVATION - CLASSROOM 1204

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



4 INTERIOR ELEVATIONS - TYP CLASSROOM

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

GENERAL NOTES

1. MISC MECHANICAL ITEMS (I.E., LOUVERS, GRILLES, T-STATS, CONTROL DEVICES, ETC.) ARE SHOWN FOR COORDINATION PURPOSES. DIMENSIONED MECHANICAL ITEMS INDICATE SPECIFIC PLACEMENT. REFER TO MECHANICAL PLANS FOR DETAILED INFORMATION.
2. FIRE ALARM DEVICES ARE NOT SHOWN ON INTERIOR ELEVATIONS. REFER TO FIRE ALARM PLANS FOR DETAILED INFORMATION.
3. MISC ELECTRICAL ITEM (I.E., SWITCHES, OUTLETS, DATA PORTS, CONTROL DEVICE, ENCLOSURES, ETC.) ARE SHOWN FOR COORDINATION PURPOSES. REFER TO ELECTRICAL PLANS FOR DETAILED INFORMATION.

KEYNOTES

501 VINYL-WRAPPED TACK PANELS, TRIM & JOINTS PER 2/A-903. LOCATION OF JOINTS ARE SHOWN FOR GENERAL DESIGN INTENT. FIELD VERIFY EACH SPACE % ADJUST AS REQ'D ON SHOP DRAWING SUBMITAL

502 5/8" GYP BOARD

503 4" RESILIENT BASE

505 4x8 VISUAL DISPLAY BOARD w/ MAP RAIL PER 1/A-903

507 DYNAMIC MOUNTING BRACKET (OFCI) FOR 75" FLAT PANEL TV PER 7/A-903. SEE ELEC FOR POWER/DATA REQUIREMENTS

508 CLOCK/SPEAKER PER ELECTRICAL

509 SURFACE MOUNTED FIRE EXTINGUISHER PER 8/A-903

523 SIGNAGE PER A-900

526 RETURN AIR GRILLE PER MECHANICAL

FINISH LEGEND

POLISHED CONCRETE FLOOR

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ENGINEERS STAMP & SIGNATURE

LICENSED ARCHITECT JOE S. WILCOX No. C-29808 Reg. 12/31/27 STATE OF CALIFORNIA

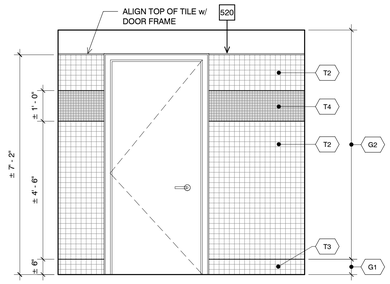
CONSULTANT INFORMATION

REVISION	DESCRIPTION	DATE	BY
5			
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DRAWN TA
CHECKED MG/JW
DATE 06/01/26
JOB. NO. 24010

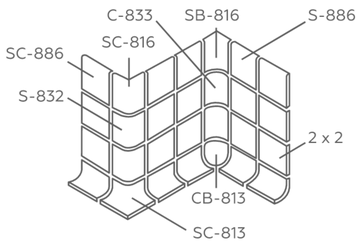
SHEET TITLE ENLARGED PLAN & INTERIOR ELEVATIONS - CLASSROOM BLDG

SHEET A-500

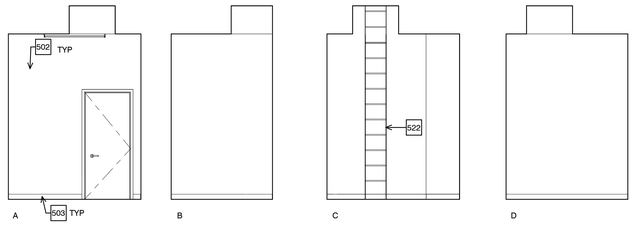


7 TYPICAL TILE WAINSCOT
SCALE: 1/2" = 1'-0"

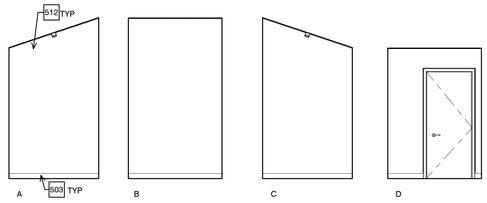
BASIS OF DESIGN: DALTILE KEYSTONE TYPICAL TRIM



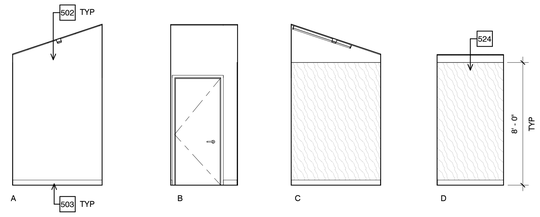
8 COVE BASE, TYP
SCALE: NTS



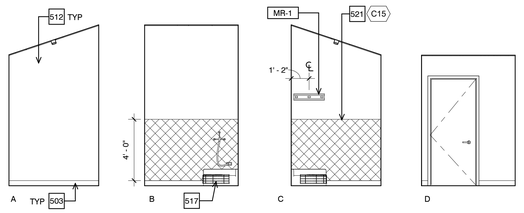
3 INTERIOR ELEVATIONS - ELEC 1200
SCALE: 1/4" = 1'-0"



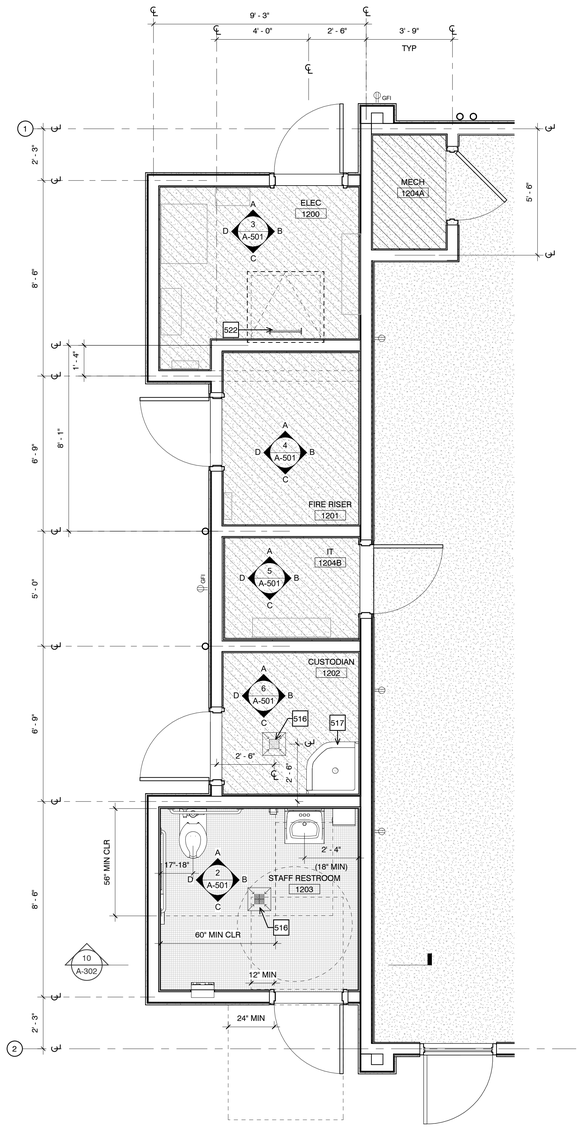
4 INTERIOR ELEVATIONS - FIRE RISER 1201
SCALE: 1/4" = 1'-0"



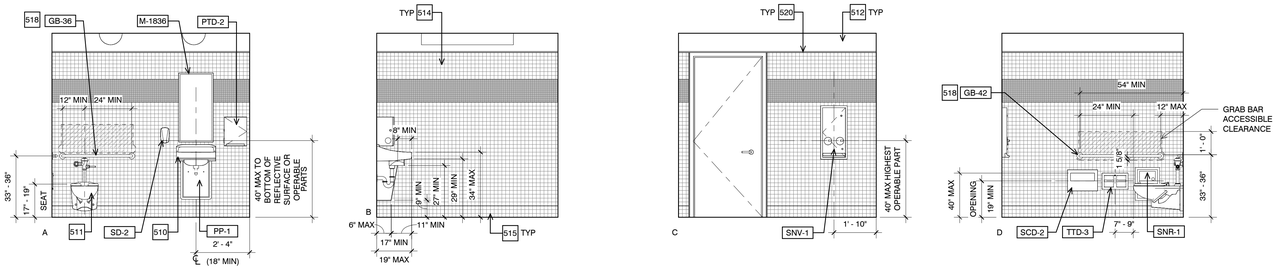
5 INTERIOR ELEVATIONS - IT 1204B
SCALE: 1/4" = 1'-0"



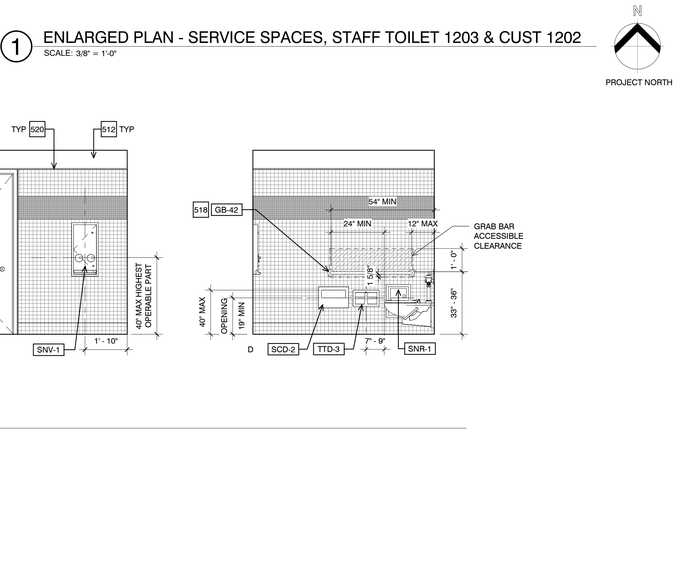
6 INTERIOR ELEVATIONS - CUSTODIAN 1202
SCALE: 1/4" = 1'-0"



1 ENLARGED PLAN - SERVICE SPACES, STAFF TOILET 1203 & CUST 1202
SCALE: 3/8" = 1'-0"



2 INTERIOR ELEVATIONS - STAFF TOILET 1203
SCALE: 3/8" = 1'-0"



GENERAL NOTES

1. MISC MECHANICAL ITEMS (I.E., LOUVERS, GRILLES, T-STATS, CONTROL DEVICES, ETC.) ARE SHOWN FOR COORDINATION PURPOSES. DIMENSIONED MECHANICAL ITEMS INDICATE SPECIFIC PLACEMENT. REFER TO MECHANICAL PLANS FOR DETAILED INFORMATION.
2. FIRE ALARM DEVICES ARE NOT SHOWN ON INTERIOR ELEVATIONS. REFER TO FIRE ALARM PLANS FOR DETAILED INFORMATION.
3. MISC ELECTRICAL ITEM (I.E., SWITCHES, OUTLETS, DATA PORTS, CONTROL DEVICE, ENCLOSURES, ETC.) ARE SHOWN FOR COORDINATION PURPOSES. REFER TO ELECTRICAL PLANS FOR DETAILED INFORMATION.

KEYNOTES

502	5/8" GYP BOARD
503	4" RESILIENT BASE
510	LAVATORY & FAUCET PER PLUMBING; PROVIDE PIPE PROTECTION BELOW
511	ADULT HT WATER CLOSET w/ MANUAL FLUSH VALVE PER PLBG; INSTALL LEVER ON "WIDE" SIDE OF WATER CLOSET
512	MOISTURE RESISTANT GYP BOARD
514	CERAMIC TILE WAINSCOT PER 7/A-501
515	COVE BASE TILE PER 8/A-501
516	FLOOR DRAIN PER PLUMBING; SLOPE ADJ FLOOR 2% MAX PER 6/A-903
517	MOP SINK w/ GUARD & FAUCET PER PLUMBING
518	GRAB BAR CLEARANCE 12" ABOVE & 1 1/2" @ ENDS & BOTTOM
520	BULLNOSE TILE TYP AT TOP OF WALL TILE
521	FRP WALL PANELS; TRIM & JOINTS PER 3/A-903
522	LADDER TO ROOF HATCH PER 5/A-804
524	3/4" THICK 1-HOUR FIRE-RATED PLYWOOD BACKBOARD

ACCESSORIES

GB-36	36" GRAB BAR
GB-42	42" GRAB BAR
M-1836	WELDED FRAME MIRROR, 18" x 36"
MR-1	MOP RACK
PP-1	UNDER LAVATORY PIPING PROTECTION (ADULT)
PTD-2	SURFACE MOUNT ROLL PAPER TOWEL DISPENSER
SCD-2	SURFACE MOUNT SEAT COVER DISPENSER (3" MAX PROJECTION FROM WALL)
SD-2	SURFACE MOUNT SOAP DISPENSER
SNR-1	ADA RECESSED NAPKIN RECEPTACLE
SNV-1	ADA RECESSED OR SEMI-RECESSED SANITARY VENDOR (4" MAX PROJECTION FROM WALL)
TTD-3	ADA RECESSED MULTI-ROLL TOILET TISSUE DISPENSER

TILE & GROUT COLORS

TILE MFR BASIS-OF-DESIGN: DALTILE

- T1 FLOOR TILE: KEYSTONES, 1" x 1"
  COLOR: WHEAT BLEND
- T2 WALL FIELD TILE: KEYSTONES, 2" x 2"
  COLOR: DESERT GRAY SPECKLE
- T3 COVE BASE TILE: KEYSTONES, 2" x 2"
  COLOR: DESERT GRAY SPECKLE
- T4 WAINSCOT ACCENT TILE: KEYSTONES, 1" x 1"
  COLOR: WHEAT BLEND

EPOXY GROUT MFR BASIS-OF-DESIGN: CUSTOM BLDG PRODUCTS

- G1 EPOXY FLOOR GROUT: CONTINUE UP WALL 6"
  COLOR: 19 PEWTER
- G2 EPOXY WALL GROUT
  COLOR: 165 DELOREAN GRAY

FINISH LEGEND

- POLISHED CONCRETE
- SEALED CONCRETE
- CERAMIC TILING, 1" x 1" (PORCELAIN MOSAIC FLOOR TILE)

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SAN LUIS OBISPO HIGH SCHOOL

1489 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401

NEW CLASSROOM BUILDING & RELOCATION OF MODULAR RESTROOM

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELLAGA STREET SANTA BARBARA CA 93101
TELEPHONE (805) 963-1726 FAX (805) 963-2951

JOE S. WILCOX, AIA
PRINCIPAL-IN-CHARGE

MAT GRADIAS, AIA
PROJECT MANAGER

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ARCHITECT'S STAMP & SIGNATURE



ENGINEER'S STAMP & SIGNATURE

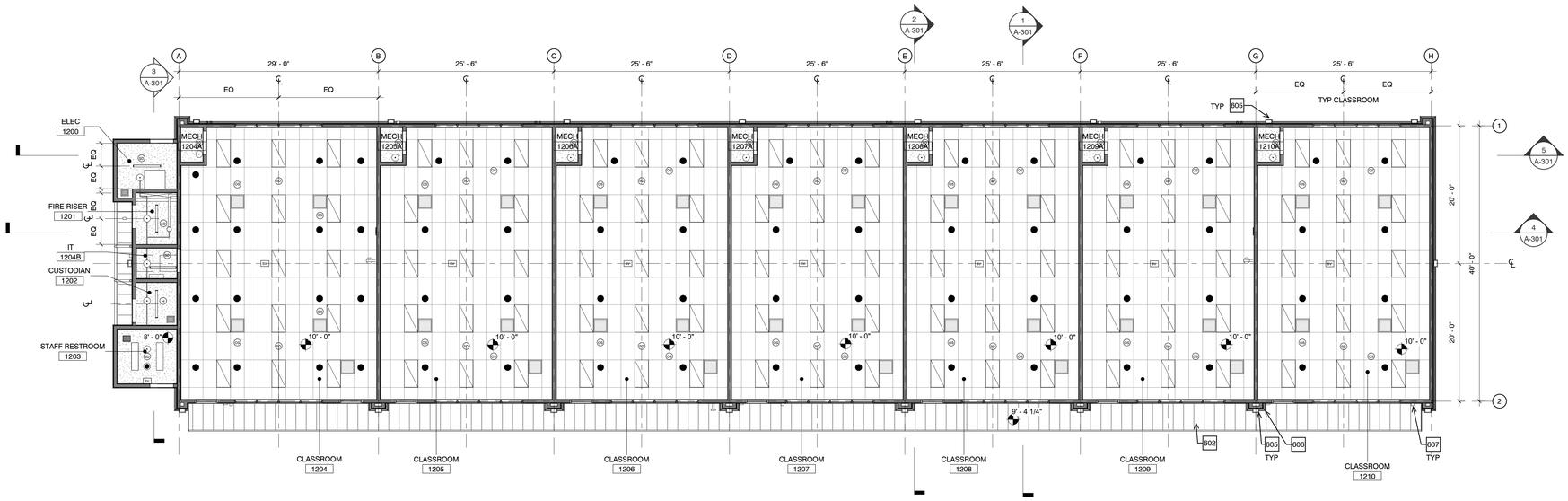
CONSULTANT INFORMATION

REVISION	DESCRIPTION	DATE	BY
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DRAWN TA
CHECKED MG/JW
DATE 06/01/26
JOB. NO. 24010

SHEET TITLE: ENLARGED PLAN & INTERIOR ELEVATIONS - CLASSROOM BLDG SERVICE SPACES

SHEET
A-501



1 REFLECTED CEILING PLAN - CLASSROOM BUILDING
SCALE: 1/8" = 1'-0"

N
PROJECT NORTH

KEYNOTES

602	PERFORATED METAL SOFFIT PANEL PER 4/A-803
605	WALL LIGHT PER ELECTRICAL
606	PILASTER CAPITAL
607	AUDIBLE ALARM PER E-203

LEGEND

- 24"x48" SUSPENDED ACOUSTIC PANEL CEILING PER FINISH SCHEDULE
- METAL SOFFIT PANELS
- TYPE X GYP BD, MOISTURE RESISTANT AT WET ENVIRONMENTS
- EXPOSED CEILING
- S.A. GRILLE
- CEILING MOUNTED LED LIGHT PER ELEC
- CEILING MOUNTED LIGHT PER ELEC
- RECESSED TROFFER LIGHTS PER ELEC
- OCCUPANCY SENSOR PER FIRE ALARM
- SMOKE DETECTOR PER FIRE ALARM
- HEAT DETECTOR PER FIRE ALARM
- SPEAKER / VISUAL PER FIRE ALARM
- CONCEALED SPRINKLER
- PENDANT SPRINKLER
- VICTAULIC SPRINKLER QR UPR BRASS
- GLOBE QR UPR BRASS
- ELEVATION

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125456 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026

SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT

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ARCHITECT'S STAMP & SIGNATURE

LICENSED ARCHITECT
JOE S. WILCOX
No. C-9808
Reg. 2027
STATE OF CALIFORNIA

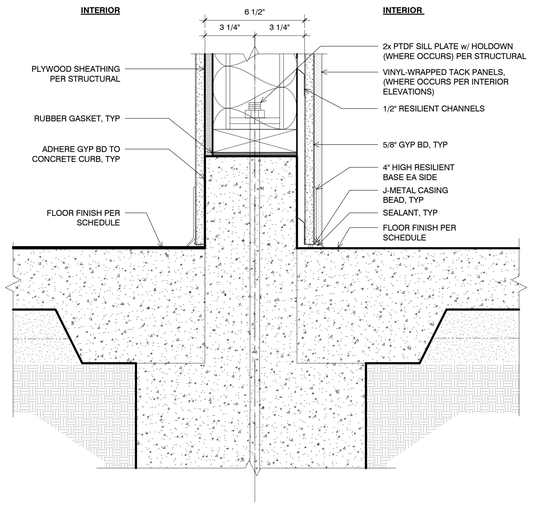
ENGINEER'S STAMP & SIGNATURE

CONSULTANT INFORMATION

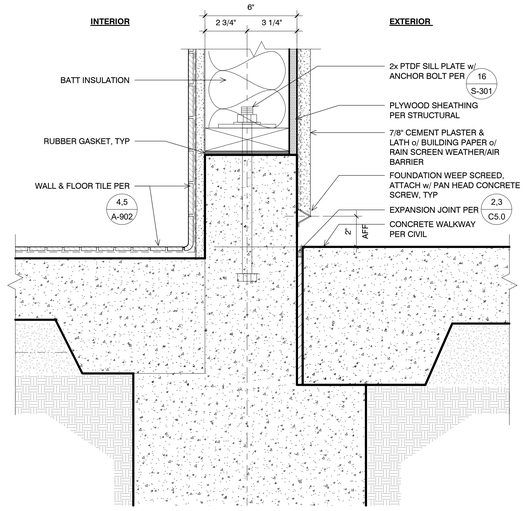
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DATE	06/01/26
JOB. NO.	24010
SHEET TITLE	REFLECTED CEILING PLAN - CLASSROOM BLDG

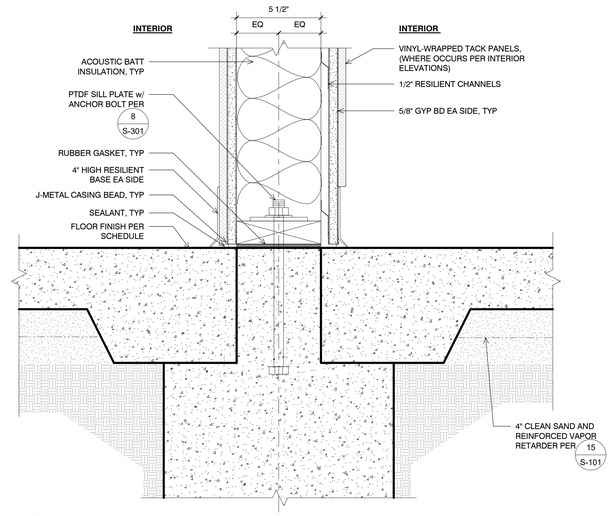
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A-600



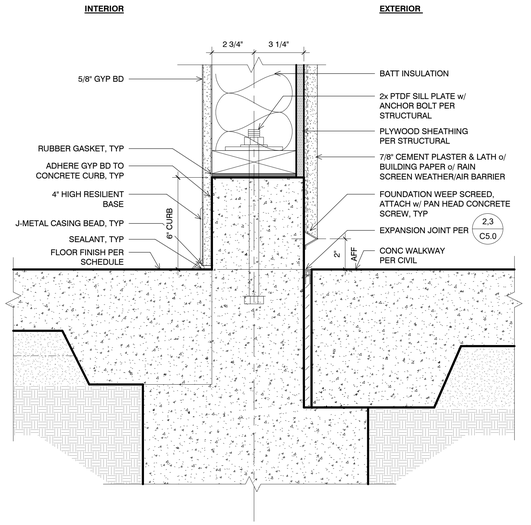
7 CURB
SCALE: 3" = 1'-0"



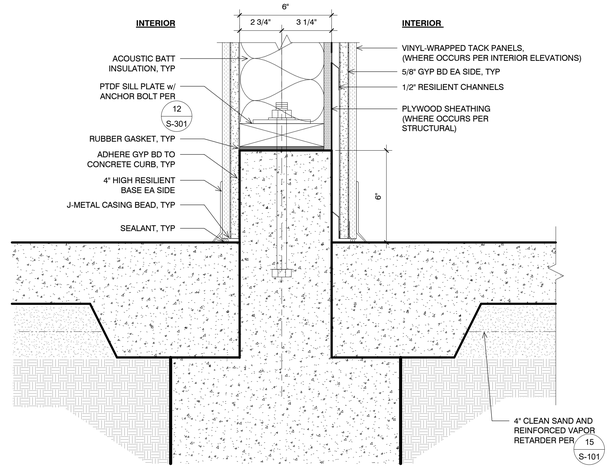
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SCALE: 3" = 1'-0"



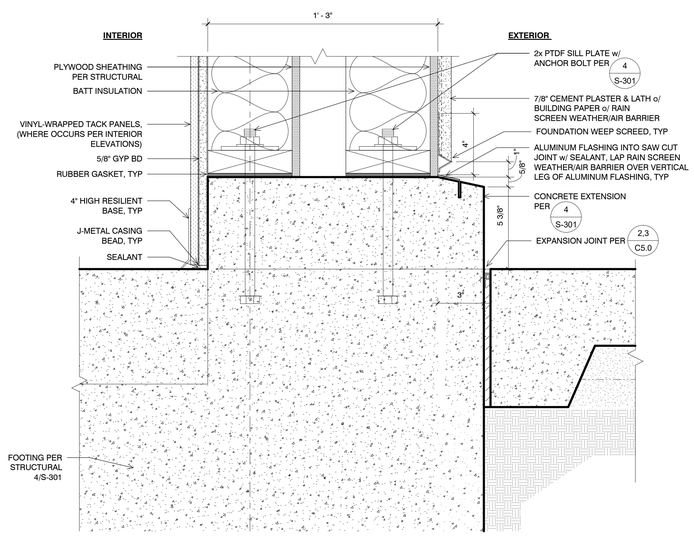
1 TYP INTERIOR WALL SILL
SCALE: 3" = 1'-0"



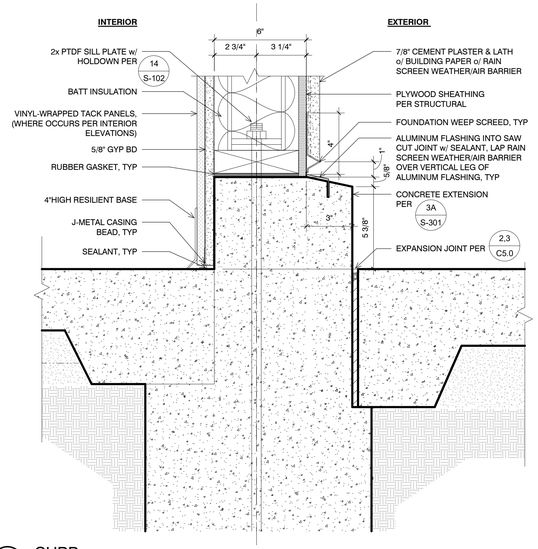
5 CURB
SCALE: 3" = 1'-0"



2 TYP INTERIOR WALL SILL @ SHEAR WALL
SCALE: 3" = 1'-0"



6 CURB
SCALE: 3" = 1'-0"



3 CURB
SCALE: 3" = 1'-0"

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ARCHITECTS STAMP & SIGNATURE

REGISTERED ARCHITECT JOSEPH S. WILCOX No. C-9808 Ren. 8/27 STATE OF CALIFORNIA

ENGINEERS STAMP & SIGNATURE

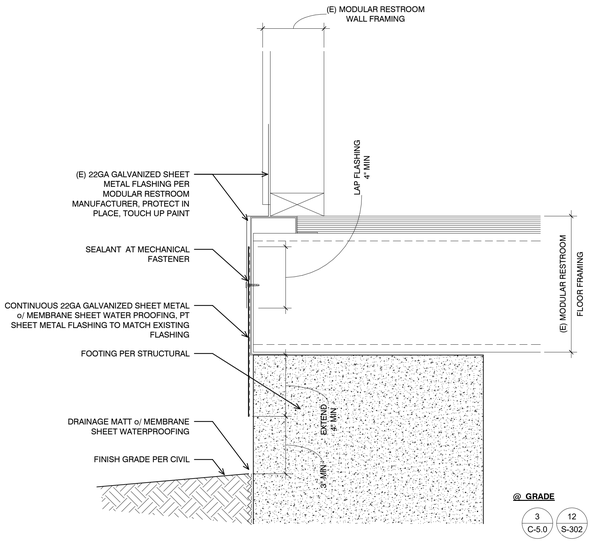
CONSULTANT INFORMATION

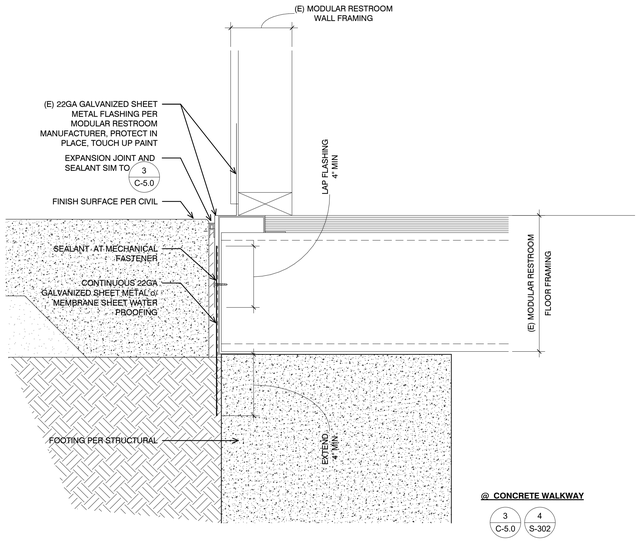
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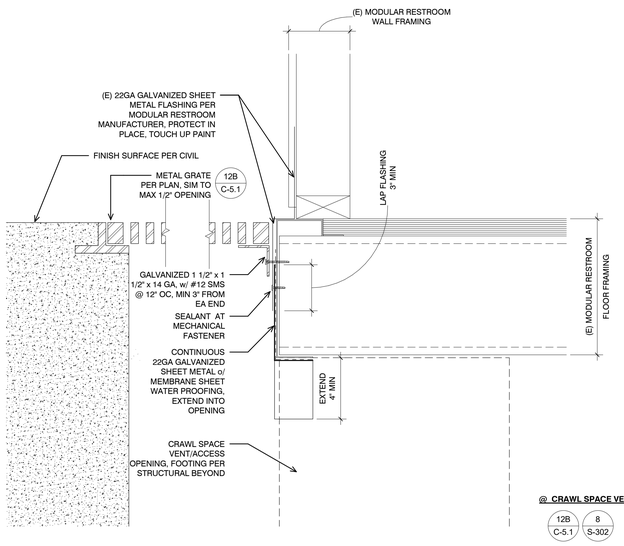
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SHEET TITLE CURB DETAILS

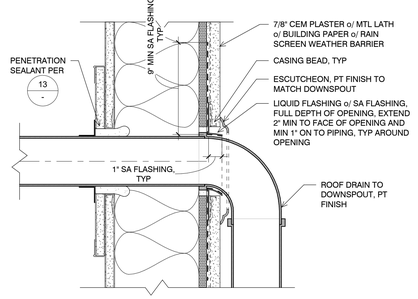
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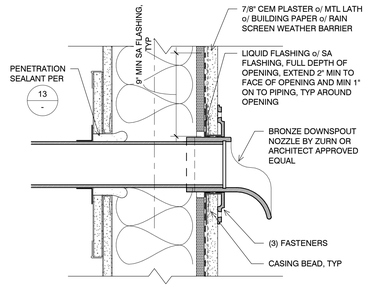


30 Modular Restroom Flashing
SCALE: 3" = 1'-0"

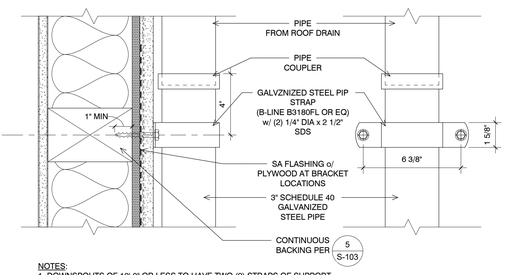


16 Roof Drain Wall Transition
SCALE: 3" = 1'-0"

NOTE:
1. FIRE RATED SEALANT AT RATED WALLS

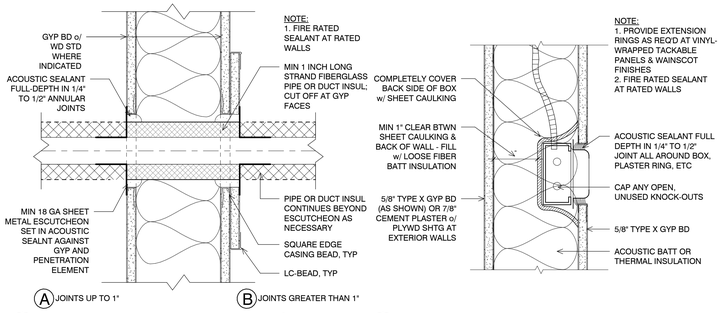


17 Roof Drain Nozzle
SCALE: 3" = 1'-0"

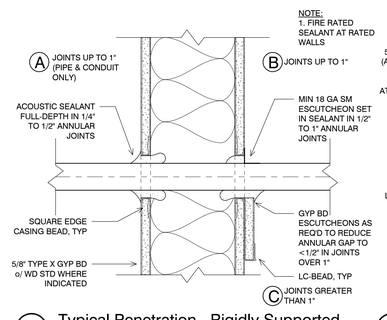


NOTES:
1. DOWNSPOUTS OF 10'-0" OR LESS TO HAVE TWO (2) STRAPS OF SUPPORT
2. DOWNSPOUTS > 10'-0" TO BE SUPPORTED AT INTERVALS OF 10'-0" MAX.
3. PRIME & PAINT STEEL PIPE DOWNSPOUTS, STRAPS AND EXPOSED FASTENERS
4. SEE CIVIL FOR STORM DRAIN CONNECTION AT GRADE

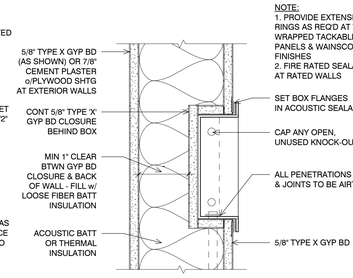
11 W_Downspout Bracket Detail
SCALE: 3" = 1'-0"



12 Typical Penetration - Resiliently Supported
SCALE: 3" = 1'-0"

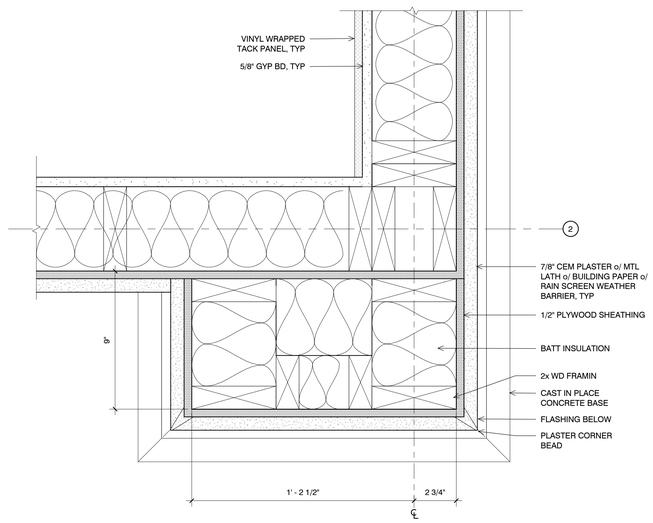


13 Typical Penetration - Rigidly Supported
SCALE: 3" = 1'-0"

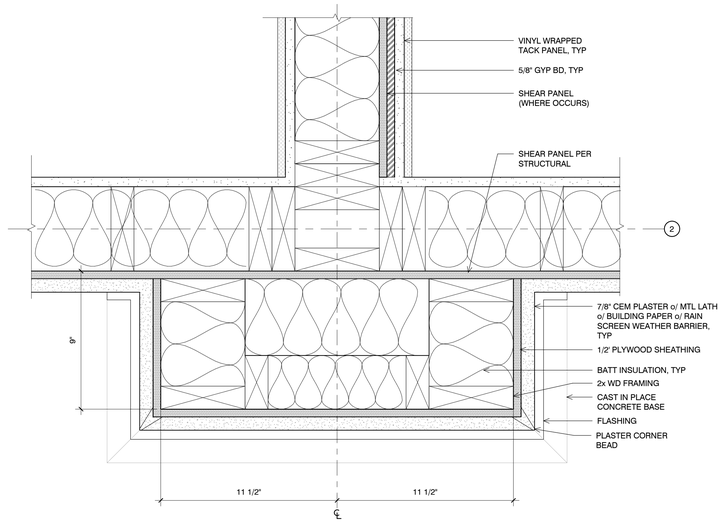


7 Typical Recessed Box
SCALE: 3" = 1'-0"

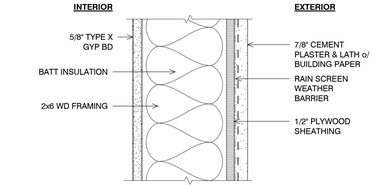
8 Typical Recessed Box > 4x8
SCALE: 3" = 1'-0"



20 CORNER PILASTER PLAN DETAIL
SCALE: 3" = 1'-0"

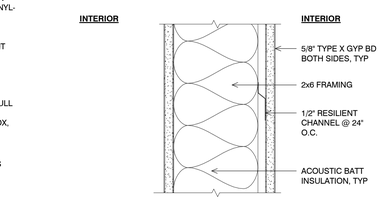


10 PILASTER PLAN DETAIL
SCALE: 3" = 1'-0"



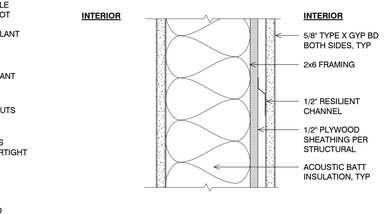
2X6 WD FRAMING @ 16" O.C. w/ R-21 CAVITY INSULATION
R-13 MIN ASSEMBLY
1 HR RATED ASSEMBLY PER CBC TABLE 721.1 ITEM NUMBER 15-1.3

1 WE-01
SCALE: 3" = 1'-0"



UL 263 - DESIGN NUMBER U305
1 HR RATED - STC 51

2 WI-01
SCALE: 3" = 1'-0"



UL 263 - DESIGN NUMBER U305
1 HR RATED - STC 51

3 WI-02 SHEAR WALL
SCALE: 3" = 1'-0"

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ENGINEERS STAMP & SIGNATURE



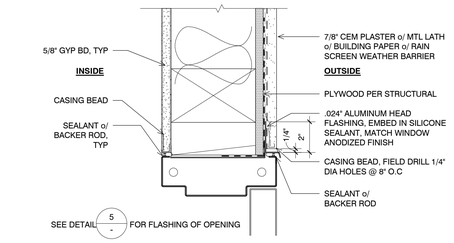
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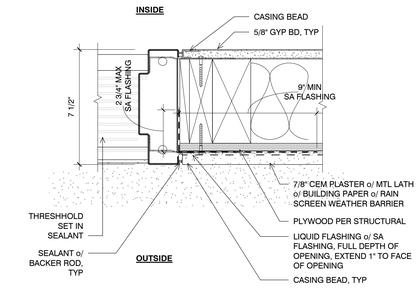
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SHEET TITLE WALL TYPES & TYP WALL DETAILS

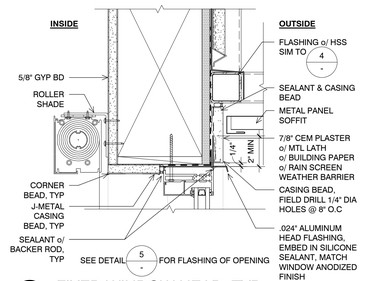
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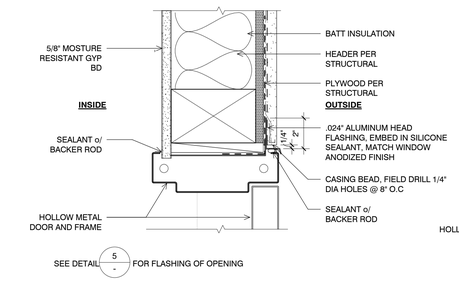
10 DOOR HEAD
SCALE: 3" = 1'-0"



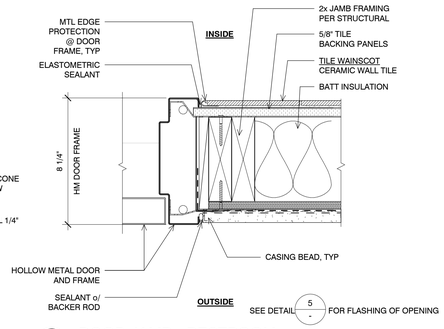
5 DOOR JAMB, TYP
SCALE: 3" = 1'-0"



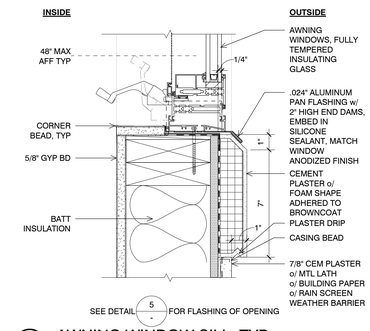
1 FIXED WINDOW HEAD, TYP
SCALE: 3" = 1'-0"



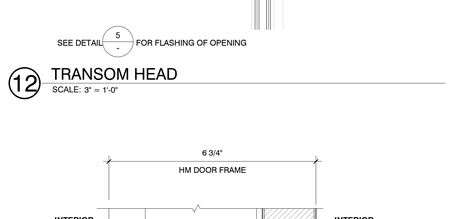
11 DOOR HEAD - RESTROOM
SCALE: 3" = 1'-0"



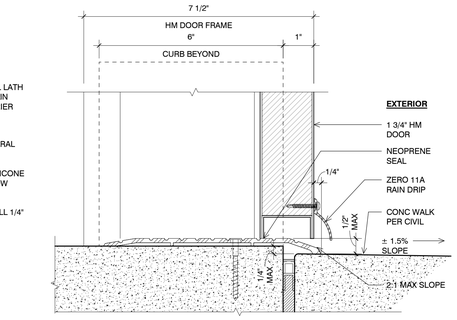
6 DOOR JAMB - RESTROOM
SCALE: 3" = 1'-0"



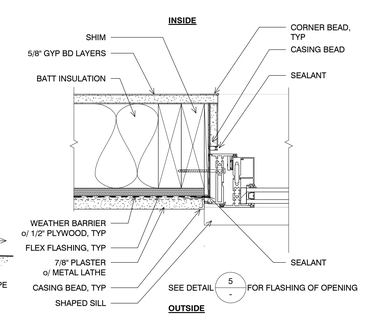
2 AWNING WINDOW SILL, TYP
SCALE: 3" = 1'-0"



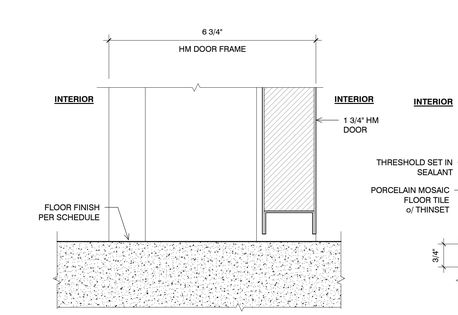
12 TRANSOM HEAD
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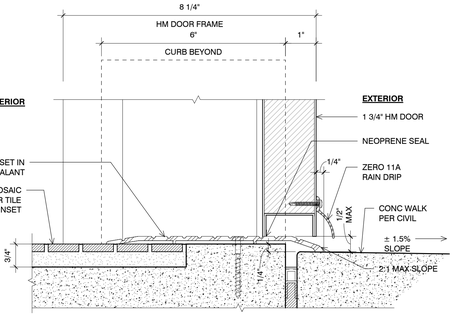
7 EXTERIOR HM DOOR THRESHOLD
SCALE: 6" = 1'-0"



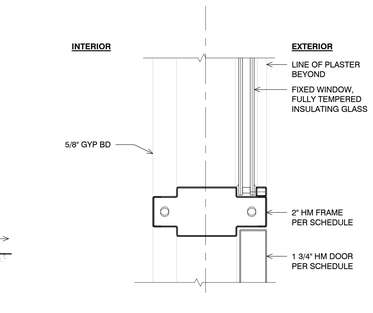
3 AWNING WINDOW JAMB, TYP
SCALE: 3" = 1'-0" FIXED WINDOW SIMILAR



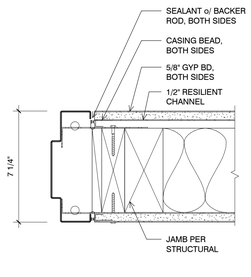
13 INTERIOR HM DOOR THRESHOLD
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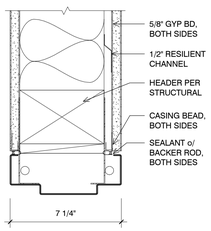
8 EXTERIOR HM DOOR THRESHOLD @ RR
SCALE: 6" = 1'-0"



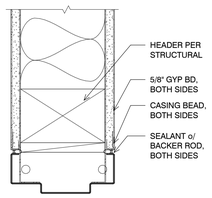
4 DOOR HEAD @ TRANSOM
SCALE: 3" = 1'-0"



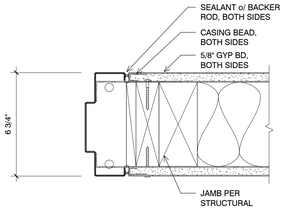
16 DOOR JAMB - IT
SCALE: 3" = 1'-0"



15 DOOR HEAD - IT
SCALE: 3" = 1'-0"



14 DOOR HEAD - MECH
SCALE: 3" = 1'-0"



9 DOOR JAMB - MECH
SCALE: 3" = 1'-0"

TYPICAL ALUMINUM WINDOW NOTES:

1. PROVIDE PERIMETER SEALANT PER SECIFICATIONS @ ALL ALUMINUM WINDOWS
2. ALL FASTENERS @ WOOD FRAMING TO BE SIMPSON SDS 252300 (ICC ESR-2236) w/ 2" MIN EMBED, UNLESS NOTED OTHERWISE
3. ALUMINUM WINDOW FASTENER LOCATIONS:
   - 3.1 AT HEADS & SILLS, INSTALL FASTENERS @ 2" FROM EACH JAMB AND 2" FROM EACH SIDE OF VERTICAL MULLIONS AND 16" OC MAX, UNLESS NOTED OTHERWISE
   - 3.2 AT JAMBS, PROVIDE FASTENERS @ 2" FROM HEAD & SILL AND 2" FROM EACH SIDE OF HORIZONTAL MULLIONS AND 16" OC MAX, UNLESS NOTED OTHERWISE
   - 3.2 FASTENERS TO BE LOCATED 3/4" MIN FROM THE EDGE OF WOOD MEMBERS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125456 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026

SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT

SAN LUIS OBISPO HIGH SCHOOL

1489 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401

NEW CLASSROOM BUILDING

& RELOCATION OF MODULAR RESTROOM

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELLAGA STREET SANTA BARBARA CA 93101
TELEPHONE (805) 963-1726 FAX (805) 963-2951

JOE S. WILCOX, AIA
PRINCIPAL-IN-CHARGE

MAT GRADIAS, AIA
PROJECT MANAGER

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ARCHITECT'S STAMP & SIGNATURE

ENGINEERS STAMP & SIGNATURE

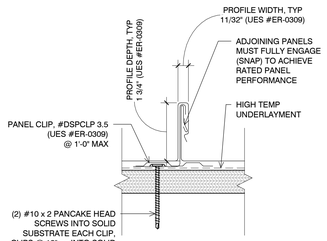
REGISTERED ARCHITECT JOE S. WILCOX No. 9808 Ren. 12/31/27 STATE OF CALIFORNIA

CONSULTANT INFORMATION

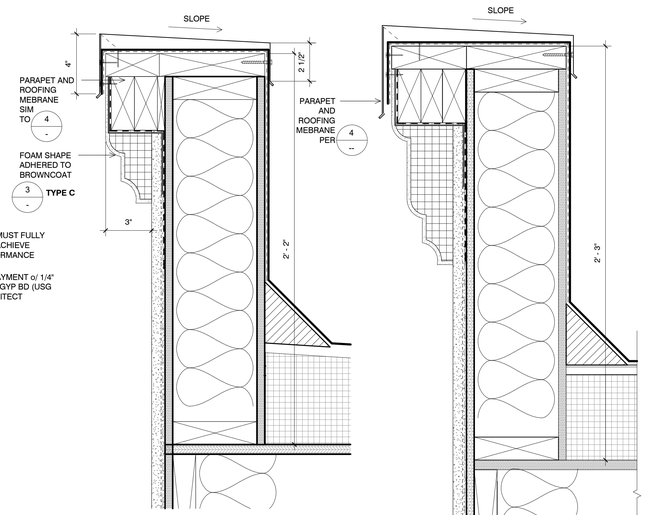
REVISION	DESCRIPTION	DATE	BY
5			
4			
3			
2			
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DRAWN	TA
CHECKED	MG/JW
DATE	06/01/26
JOB. NO.	24010
SHEET TITLE	OPENINGS DETAILS

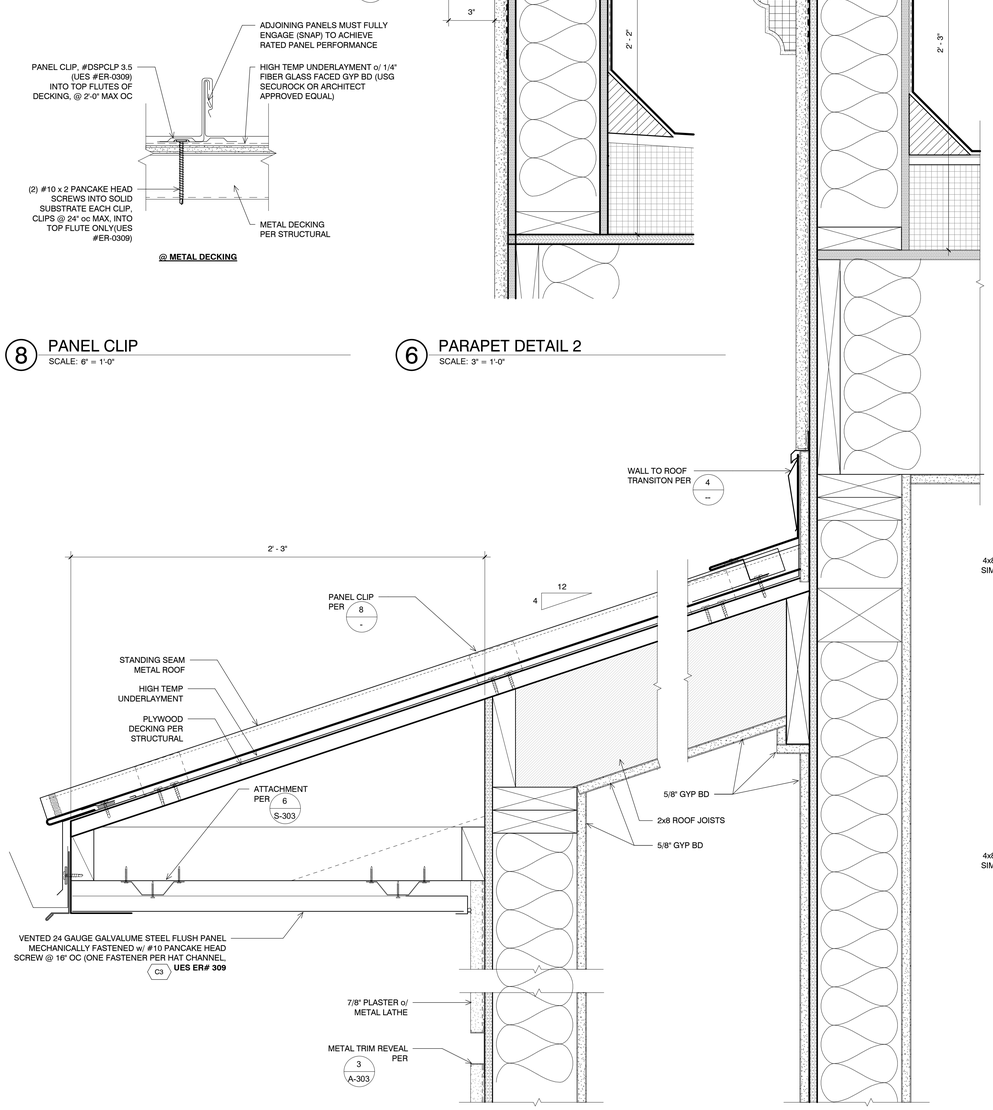
SHEET A-802



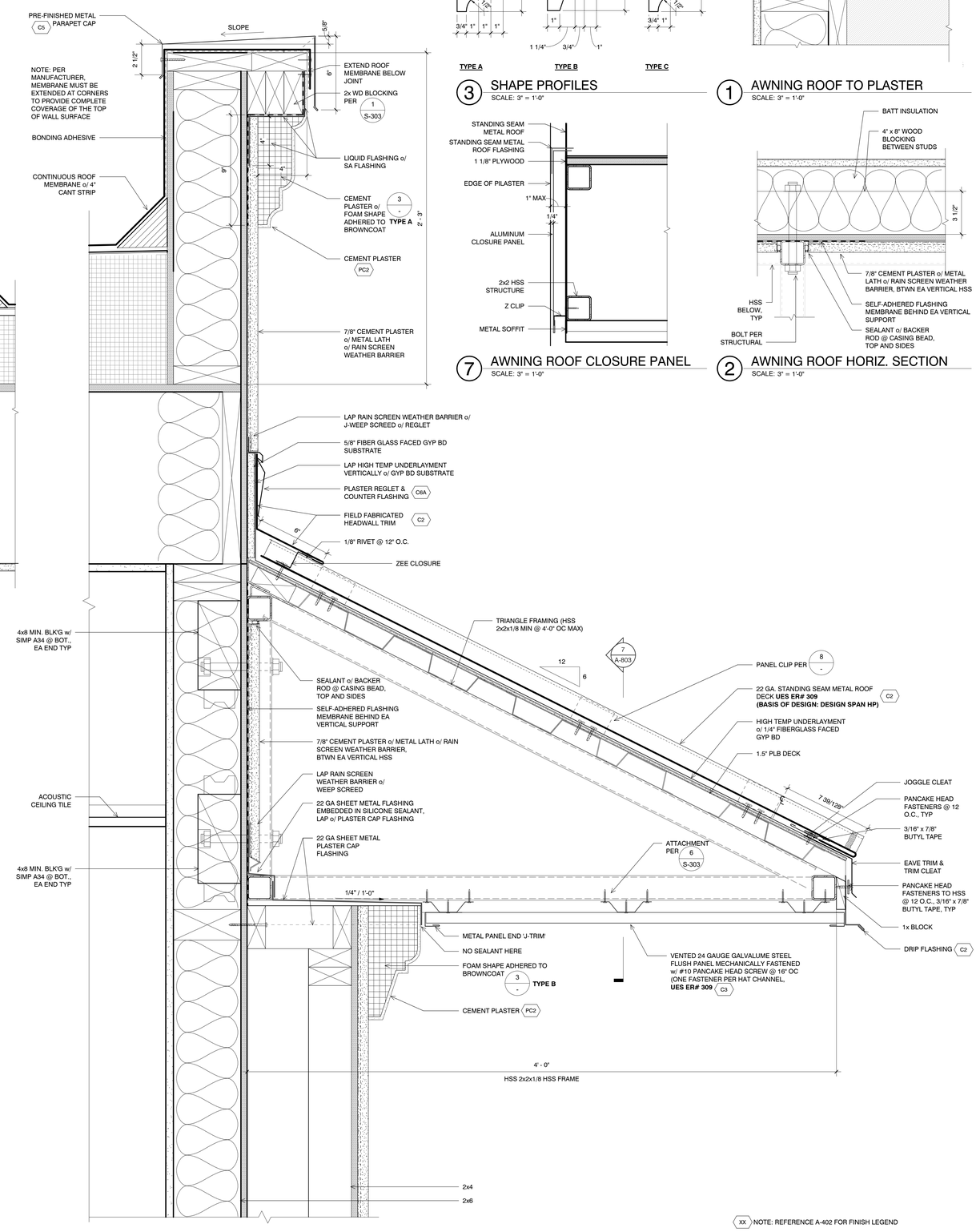
8 PANEL CLIP
SCALE: 6" = 1'-0"



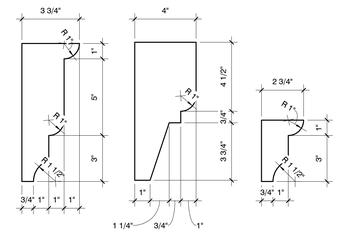
6 PARAPET DETAIL 2
SCALE: 3" = 1'-0"



5 OVERHANG DETAIL 2 SEE DETAIL 4 FOR INFORMATION NOT SHOWN
SCALE: 3" = 1'-0"

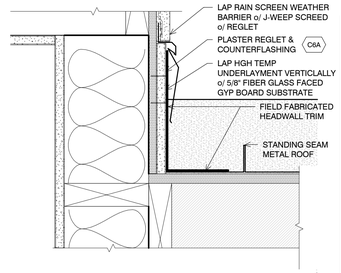


4 OVERHANG DETAIL
SCALE: 3" = 1'-0"



3 SHAPE PROFILES
SCALE: 3" = 1'-0"

7 AWNING ROOF CLOSURE PANEL
SCALE: 3" = 1'-0"



1 AWNING ROOF TO PLASTER
SCALE: 3" = 1'-0"

2 AWNING ROOF HORIZ. SECTION
SCALE: 3" = 1'-0"

IDENTIFICATION STAMP
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SAN LUIS OBISPO HIGH SCHOOL
NEW CLASSROOM BUILDING & RELOCATION OF MODULAR RESTROOM

SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT
1499 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELLAGA STREET SANTA BARBARA CA 93101
TELEPHONE (805) 963-1726 FAX (805) 963-2951
JOE S. WILCOX, AIA
PRINCIPAL-IN-CHARGE
MAT GRADIAS, AIA
PROJECT MANAGER

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ARCHITECT'S STAMP & SIGNATURE
ENGINEER'S STAMP & SIGNATURE
LICENSED ARCHITECT JOE S. WILCOX No. C-9808 Reg. 10/31/27 STATE OF CALIFORNIA

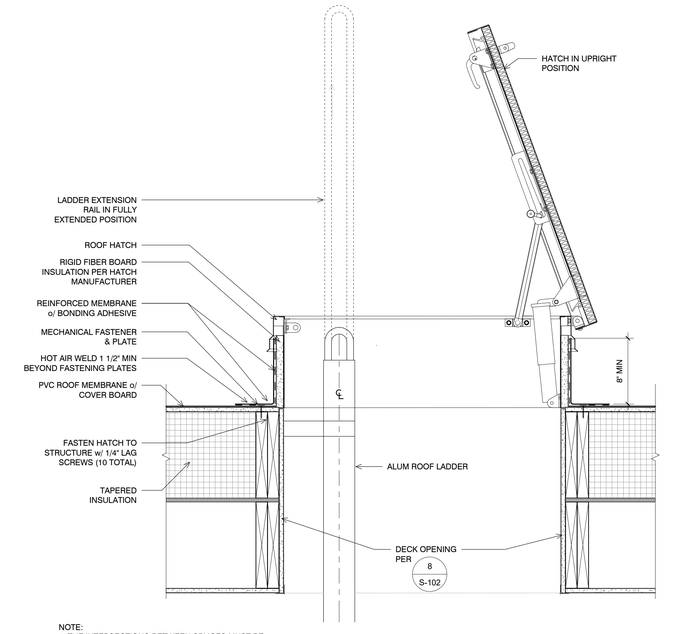
CONSULTANT INFORMATION

REVISION	DESCRIPTION	DATE	BY
5			
4			
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DRAWN TA
CHECKED MG/JW
DATE 06/01/26
JOB. NO. 24010

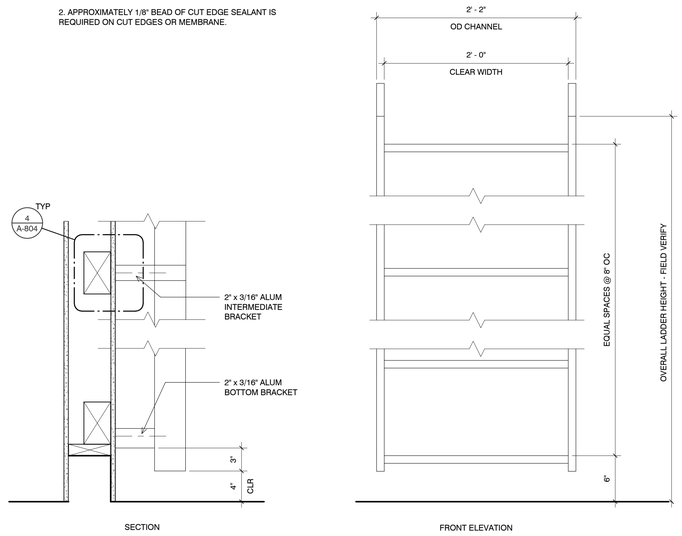
SHEET TITLE ROOF DETAILS

SHEET A-803

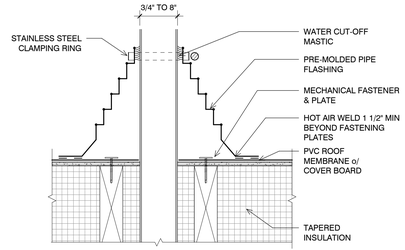


NOTE:
1. THE INTERSECTIONS BETWEEN SPLICES MUST BE OVERLAID WITH "T-JOINT" COVER.

2. APPROXIMATELY 1/8" BEAD OF CUT EDGE SEALANT IS REQUIRED ON CUT EDGES OR MEMBRANE.

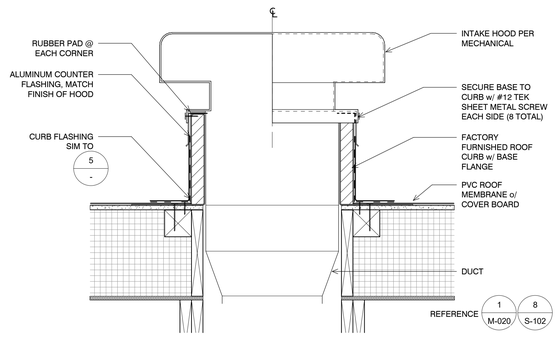


5 ROOF HATCH & LADDER
SCALE: 1 1/2" = 1'-0"

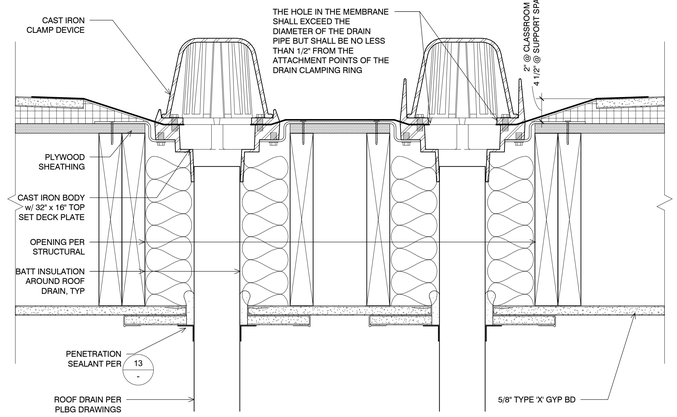


NOTE:
1. TEMPERATURE OF THE PIPE PENETRATION MUST NOT EXCEED 160 DEGREES FAHRENHEIT.
2. PRE-MOLDED PIPE FLASHING MUST HAVE INTACT RIB AT THE TOP EDGE REGARDLESS OF PIPE DIAMETER
3. INSTALL A MIN OF 4 FASTENERRS AND PLATES AROUND THE PIPE, EQUALLY SPACED.

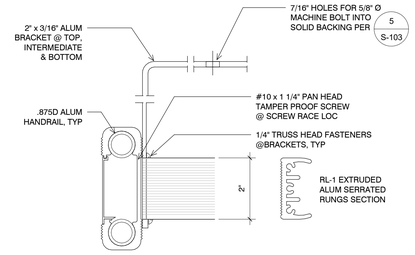
1 FLASHING @ STACK VENT
SCALE: 3" = 1'-0"



2 INTAKE / RELIEF HOOD PENETRATION
SCALE: 1 1/2" = 1'-0"



3 ROOF DRAIN
SCALE: 3" = 1'-0"



4 ROOF LADDER RUNG
SCALE: 6" = 1'-0"

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ARCHITECT'S STAMP & SIGNATURE

ENGINEER'S STAMP & SIGNATURE

LICENSED ARCHITECT JOE S. WILCOX M-3808 Reg. Exp. 8-31-27 STATE OF CALIFORNIA

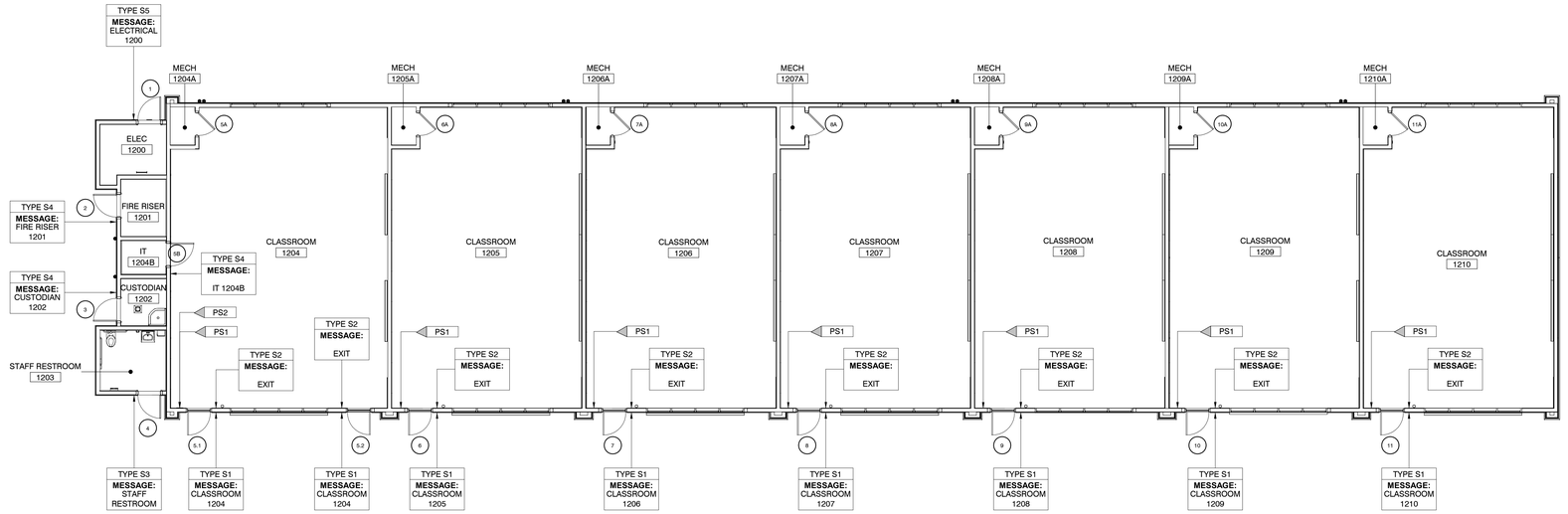
CONSULTANT INFORMATION

REVISION	DESCRIPTION	DATE	BY
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3			
2			
1			

DRAWN	TA
CHECKED	MG/JW
DATE	06/01/26
JOB. NO.	24010

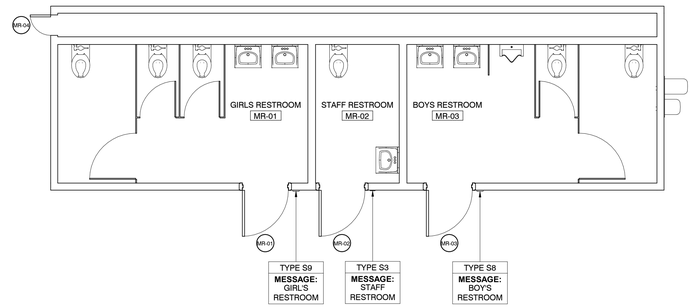
SHEET TITLE: ROOF DETAILS

SHEET: A-804



1 Signage Plan - Classroom Building
SCALE: 1/8" = 1'-0"

N
PROJECT NORTH



2 Signage Plan - Restroom Building
SCALE: 1/4" = 1'-0"

N
PROJECT NORTH

SIGNAGE COLOR SELECTION

SIGN COLOR MOUNTED ON DOORS:
FIELD C19
PICTOGRAM/TEXT C18

SIGN COLOR MOUNTED ON WALLS:
FIELD C18
PICTOGRAM/TEXT C19

SIGNAGE KEYNOTES

1 TACTILE PANEL SIGN

2 TACTILE PANEL WALL SIGN
TACTILE PANEL DOOR SIGN

3 SEE DETAIL FOR PANEL DOOR SIGN MESSAGE

PANEL SIGN MESSAGE SCHEDULE

(FOR SIGNAGE NOT ASSOCIATED WITH A DOOR: LOCATION SHOWN ON SIGNAGE PLAN)

CODE	DETAIL	DESCRIPTION	MESSAGE	LOCATION
PS1	S6	1	ASSISTIVE LISTENING SYSTEM AVAILABLE	CLASSROOMS
PS2	S7	1	MAXIMUM OCCUPANCY 56	CLASSROOM 1204

DOOR SIGN MESSAGE SCHEDULE

DOOR NO.	SIGN TYPE / SEE DETAIL		DESCRIPTION		MESSAGE		SIGNAGE REMARKS
	PULL SIDE	PUSH SIDE	PULL SIDE	PUSH SIDE	PULL SIDE	PUSH SIDE	
00	S5	-	2	-	FIRE RISER 1200	-	3
01	S4	-	1	-	ELEC 1201	-	
02	S4	-	1	-	CUST 1202	-	
03	S3	-	2	-	STAFF RESTROOM	-	
04.1	S1	S2	1	1	CLASSROOM 1204	EXIT	
04.2	S1	S2	1	1	CLASSROOM 1204	EXIT	
04B	S4	-	1	-	IT 1204B	-	
05	S1	S2	1	1	CLASSROOM 1205	EXIT	
06	S1	S2	1	1	CLASSROOM 1206	EXIT	
07	S1	S2	1	1	CLASSROOM 1207	EXIT	
08	S1	S2	1	1	CLASSROOM 1208	EXIT	
09	S1	S2	1	1	CLASSROOM 1209	EXIT	
10	S1	S2	1	1	CLASSROOM 1210	EXIT	
MR-01	S9	-	2	-	GIRLS RESTROOM	-	
MR-02	S3	-	2	-	RESTROOM	-	
MR-03	S8	-	2	-	BOYS RESTROOM	-	

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ENGINEERS STAMP & SIGNATURE

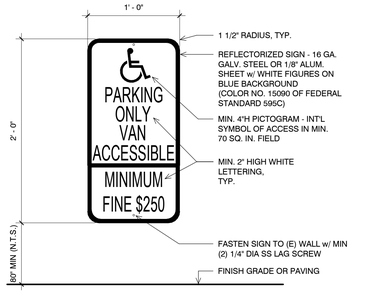
CONSULTANT INFORMATION

REVISION	DESCRIPTION	DATE	BY
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4			
3			
2			
1			

DRAWN TA
CHECKED MG/JW
DATE 08/01/26
JOB. NO. 24010

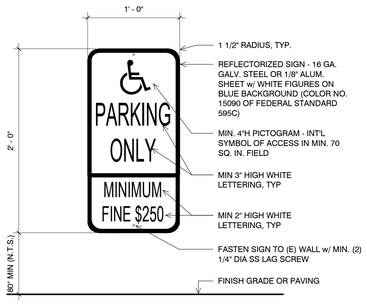
SHEET TITLE SIGNAGE PLAN - CLASSROOM BLDG + MODULAR RESTROOM

SHEET A-900



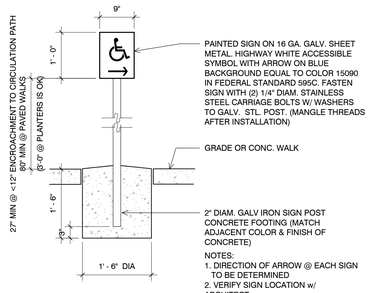
1 ADA SIGN - VAN

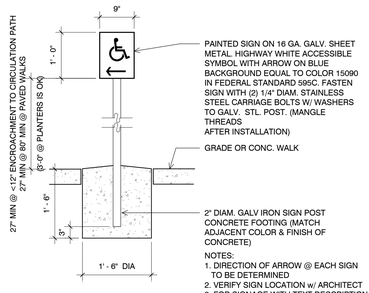
SCALE: 1 1/2" = 1'-0"



2 ADA SIGN - CAR

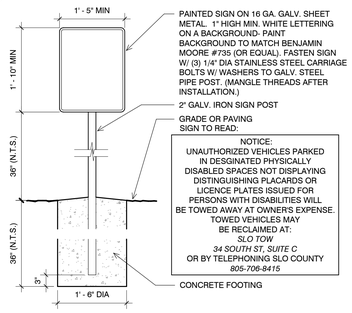
SCALE: 1 1/2" = 1'-0"





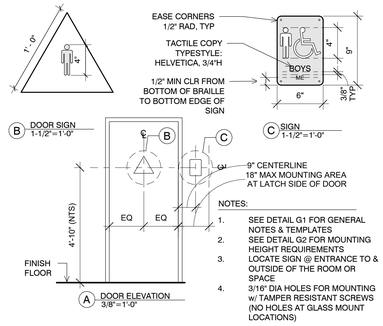
3 Directional Signage

SCALE: 3/4" = 1'-0"



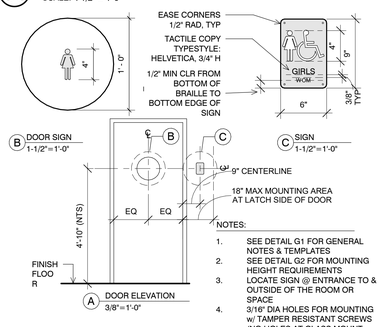
4 (E) Parking Lot Entrance Sign

SCALE: 3/4" = 1'-0"



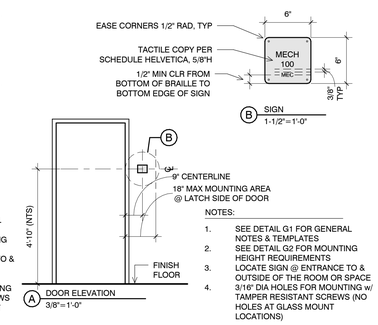
S8 SIGNAGE

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



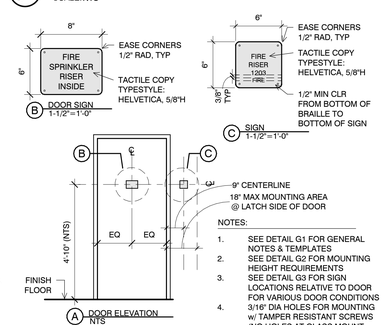
S9 SIGNAGE

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



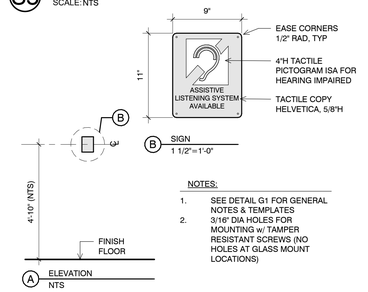
S4 ROOM ID SIGN (2-LINE)

SCALE:NTS



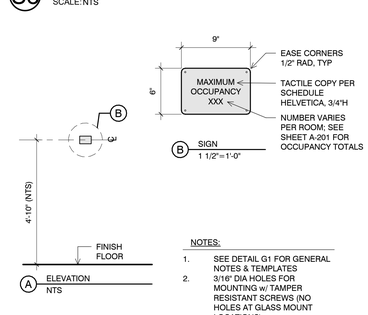
S5 ROOM ID SIGN (3-LINE)

SCALE:NTS



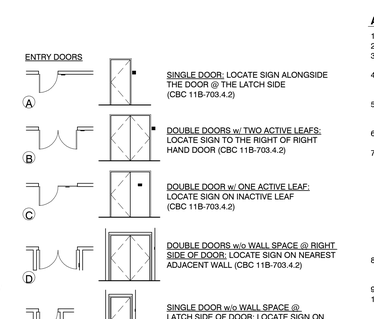
S6 ASSISTED LISTENING SYSTEM SIGN

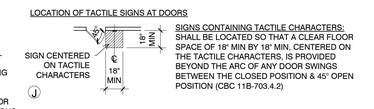
SCALE:NTS



S7 OCCUPANT LOAD SIGN

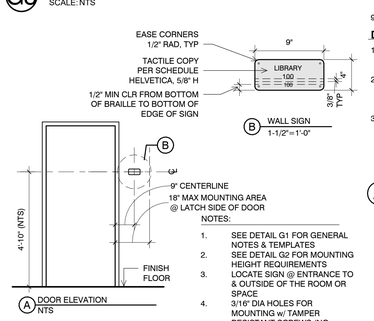
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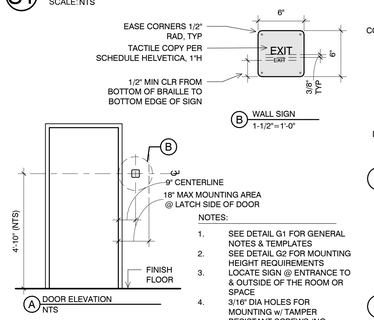
G3 SIGN LOCATION RELATIVE TO DOOR

SCALE:NTS



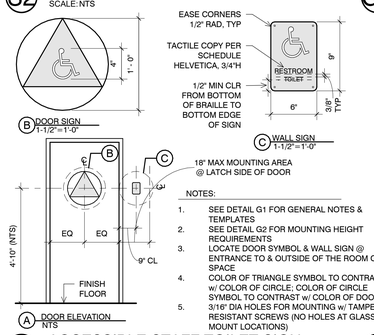
S1 ROOM ID SIGN

SCALE:NTS



S2 EXIT SIGN

SCALE:NTS



S3 ACCESSIBLE STAFF TOILET SIGN

SCALE:NTS

A. RAISED CHARACTERS PER CBC 11B-703.2

1. **DEPTH:** RAISED CHARACTERS SHALL BE 1/32" MIN ABOVE THEIR BACKGROUND.
2. **CASE:** CHARACTERS SHALL BE UPPERCASE.
3. **STYLE:** CHARACTERS SHALL BE SANS SERIF. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS.
4. **CHARACTER PROPORTION:** CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MIN & 110% MAX OF THE HEIGHT OF THE UPPERCASE LETTER "I".
5. **CHARACTER HEIGHT:** CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8" MIN & 2" MAX BASED ON THE HEIGHT OF THE UPPRCASE LETTER "I".
6. **STROKE THICKNESS:** STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15% MAX OF HEIGHT OF THE CHARACTER.
7. **CHARACTER SPACING:** CHARACTER SPACING SHALL BE MEASURED BETWEEN TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN A MESSAGE, EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8" MIN & 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAX. WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/16" MIN & 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAX AT THE BASE OF THE CROSS SECTION, & 1/8" MIN & 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAX AT THE TOP OF CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS & DECORATIVE ELEMENTS BY 3/8" MIN.
8. **LINE SPACING:** SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135% MIN & 170% MAX OF THE RAISED CHARACTER HEIGHT.
9. **FORMAT:** TEXT SHALL BE IN HORIZONTAL FORMAT.
10. **FINISH & CONTRAST:** CHARACTERS & THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST w/ THEIR BACKGROUND (EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND).

B. BRAILLE: CONTRACTED (GRADE 2) PER 11B-703.3

1. **DIMENSIONS AND CAPITALIZATION:** BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE & SHALL COMPLY w/ TABLE 11B-703.3.1. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS & NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, & ACRONYMS.
2. **POSITION:** BRAILLE SHALL BE POSITIONED BELOW CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT, OR CENTERED. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW ENTIRE TEXT, BRAILLE SHALL BE SEPARATED 3/8" MIN & 1/2" MAX FROM ANY OTHER TACTILE CHARACTERS & 3/8" MIN FROM RAISED BORDERS & DECORATIVE ELEMENTS. EXCEPTION: BRAILLE PROVIDED ON ELEVATOR CAR CONTROLS SHALL BE SEPARATED BY 3/16" MIN & SHALL BE LOCATED DIRECTLY BELOW CORRESPONDING RAISED CHARACTERS OR SYMBOLS.

C. VISUAL CHARACTERS PER CBC 11B-703.5

1. **FINISH & CONTRAST:** CHARACTERS & THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST w/ THEIR BACKGROUND w/ EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
2. **CASE:** CHARACTERS SHALL BE UPPERCASE OR LOWERCASE, OR A COMBINATION.
3. **STYLE:** CHARACTERS SHALL BE CONVENTIONAL IN FORM. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNSUAL FORMS.
4. **CHARACTER PROPORTIONS:** CHARACTERS SHALL BE SELEVTED FROM FONTS WHERE WIDTH OF UPPERCASE LETTER "O" IN 60% MIN & 110" MAX OF UPPERCASE LETTER "I".
5. **CHARACTER HEIGHT:** MIN CHARACTER HEIGHT SHALL COMPLY w/ CBC TABLE 11B-703.5.5. VIEWING DISTANCE SHALL BE MEASRED AS HORIZONTAL DISTANCE BETWEEN CHARACTER & OBSTRUCTION PREVENTING FURTHER APPROACH TOWARDS SIGN. CHARACTER HEIGHT SHALL BE BASED ON HEIGHT OF UPPERASE LETTER 'I".
6. **HEIGHT FROM FINISH FLOOR OR GROUND:** 40" MIN PER 11B-703.5.6 EXCEPT AS NOTED.
7. **CHARACTER SPACING:** SHALL BE MEASURED BETWEEN TWO CLOSEST POINTS OF ADJACENT CHARACTERS, EXCLUDING WORD SPACES. SPACING BETWEEN INDIVIDUAL CHARACTERS SHALL BE 10% MIN & 35% MAX OF CHARACTER HEIGHT.
8. **LINE SPACING:** SPACING BETWEEN BASELINES OF SEPARATE LINES OF CHARACTERS WITHIN A MESSAGE SHALL BE 135% MIN & 170% MAX OF CHARACTER HEIGHT.
9. **FORMAT:** TEXT SHALL BE IN HORIZONTAL FORMAT.

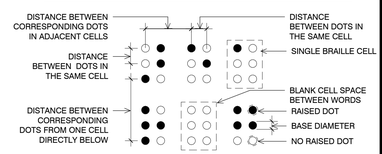
D. GEOMETRIC SYMBOLS @ RESTROOMS & TOILET ROOM DOORS

1. **ALL GEOMETRIC SYMBOLS:** EDGES SHALL BE EASED OR ROUNDED @ 1/16" MIN OR CHAMFERED @ 1/8" MAX. VERTICES SHALL BE RADIUSED BETWEEN 1/8" MIN & 1/4" MAX PER CBC 11B-703.7.2.6.4.
2. **MEN/BOYS OR WOMEN/GIRLS:** GEOMETRIC SYMBOLS SHALL BE 1/4" THICK & COLOR SHALL CONTRAST w/ DOOR COLOR, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND PER CBC 11B-703.7.2.6.1 & 11B-703.7.2.6.2.
3. **GENDER NEUTRAL:** TRIANGLE SYMBOL SHALL BE 1/4" THICK & SUPERIMPOSED ON A 1/4" THICK, 12" DIAMETER CIRCLE SYMBOL. VERTICES OF TRIANGLE SHALL BE LOCATED 1/4" MAX FROM CIRCLE'S EDGES w/ ONE POINTING UPWARD. COLOR OF CIRCLE SYMBOL SHALL CONTRAST w/ BOTH DOOR & TRIANGLE SYMBOL. EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND PER CBC 11B.703.7.2.6.3. IF ISA IS LOCATED ON GEOMETRIC SYMBOL, COLOR OF ISA SHALL CONTRAST w/ SYMBOL ON WHICH IT OCCURS.

A SIGNAGE GENERAL NOTES

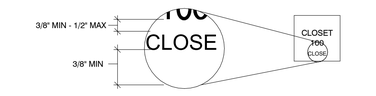
SCALE: NTS

MEASUREMENT RANGE	MINIMUM IN INCHES MAXIMUM IN INCHES
DOT BASE DIAMETER	0.059 to 0.063
DISTANCE BETWEEN TWO DOTS IN THE SAME CELL*	0.100
DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS*	0.300
DOT HEIGHT	0.025 to 0.037
DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW*	0.395 to 0.400
*MEASURED CENTER TO CENTER	



B BRAILLE DIMENSIONS & MEASUREMENTS

SCALE: NTS

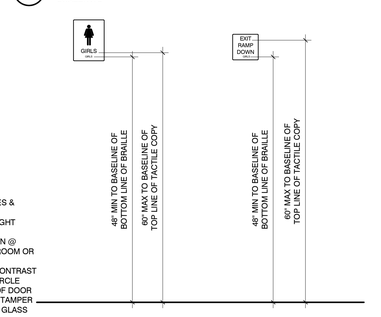


C BRAILLE POSITION

SCALE: NTS

G1 SIGNAGE GENERAL NOTES & TEMPLATES

SCALE:NTS



G2 MOUNTING HT FOR TACTICAL SIGNS, TYP

SCALE: 1" = 1'-0"

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DATE: 07/01/2026

SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT

SAN LUIS OBISPO HIGH SCHOOL

1499 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401

NEW CLASSROOM BUILDING & RELOCATION OF MODULAR RESTROOM

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELLAGA STREET SANTA BARBARA CA 93101
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JOE S. WILCOX, AIA
PRINCIPAL IN-CHARGE
MAT GRADIAS, AIA
PROJECT MANAGER

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ENGINEERS STAMP & SIGNATURE



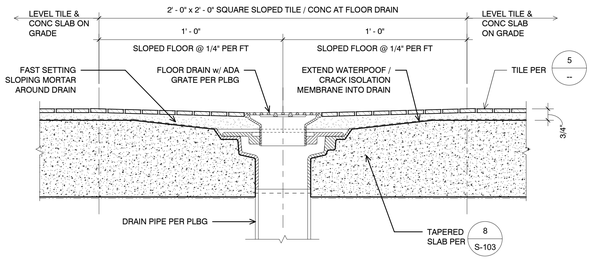
CONSULTANT INFORMATION

REVISION	DESCRIPTION	DATE	BY
5			
4			
3			
2			
1			

DRAWN TA
CHECKED MG/JW
DATE 08/01/26
JOB. NO. 24010

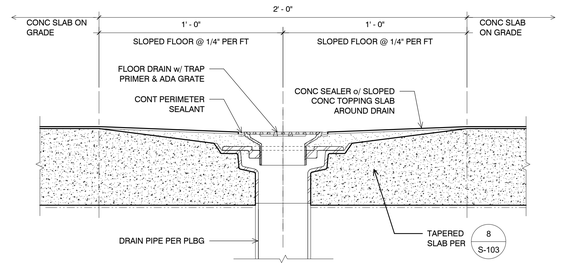
SHEET TITLE SIGNAGE DETAILS

SHEET A-901



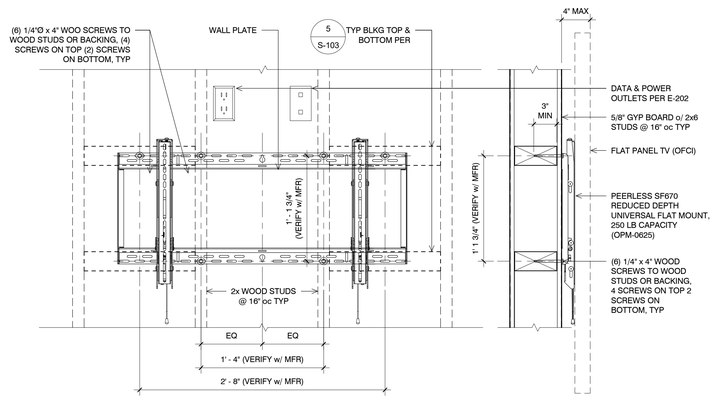
6A FLOOR DRAIN - CERAMIC TILE

SCALE: 3" = 1'-0"



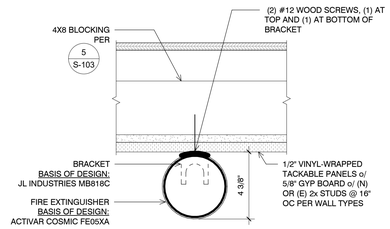
6B FLOOR DRAIN - CUSTODIAN

SCALE: 3" = 1'-0"



7 TV WALL MOUNT

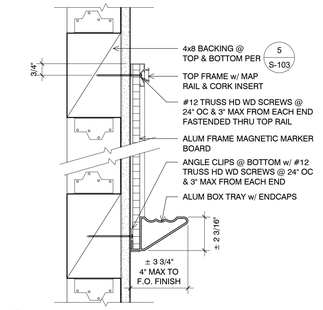
SCALE: 1 1/2" = 1'-0"



NOTE: BOTTOM OF EXTINGUISHER NOT TO EXCEED 27" AFF

8 FIRE EXTINGUISHER MOUNTING

SCALE: 3" = 1'-0"



1 VISUAL DISPLAY BOARD

SCALE: 3" = 1'-0"

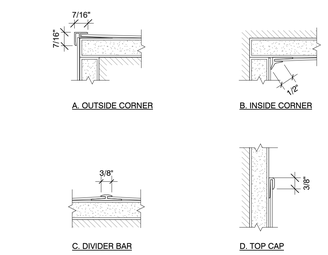


NOTES:

1. INSTALL TRIM IN THE FIELD; ATTACH METAL TRIM w/ 1 5/8" #6 SELF-TAPPING SCREWS 16" OC. TRIM IS NOT A STRUCTURAL COMPONENT
2. ADHERE PANELS 12" OC IN VERTICAL & HORIZONTAL DIRECTION PER MFR'S RECOMMENDATIONS

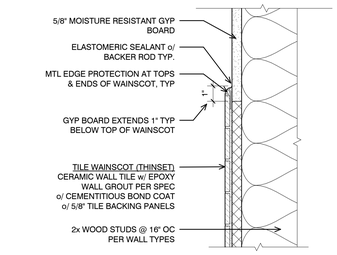
2 TACK PANELS - TRIM & JOINTS, TYP

SCALE: 6" = 1'-0"



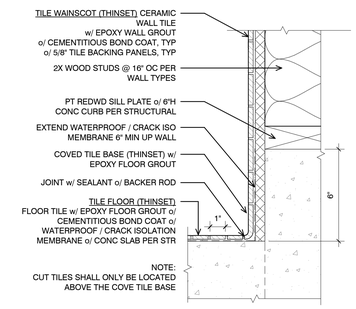
3 FRP TRIM & JOINT

SCALE: 6" = 1'-0"



4 TILE WAINSCOT CAP DETAIL, TYP

SCALE: 3" = 1'-0"



5 TILE BASE DETAIL, TYP

SCALE: 3" = 1'-0"

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SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT

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1489 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401

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ENGINEERS STAMP & SIGNATURE

REGISTERED ARCHITECT JOSE S. WILCOX No. C-9808 Ren. 8/27 STATE OF CALIFORNIA

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3			
2			
1			

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DATE	06/01/26
JOB. NO.	24010
SHEET TITLE	INTERIOR DETAILS
SHEET	A-902

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SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT

SAN LUIS OBISPO HIGH SCHOOL
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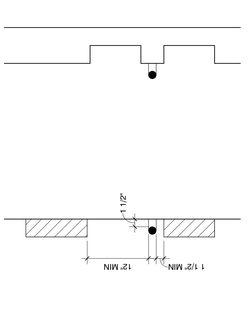
CONSULTANT INFORMATION

REVISION	DESCRIPTION	DATE	BY
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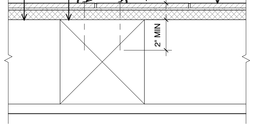
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DATE 06/01/26
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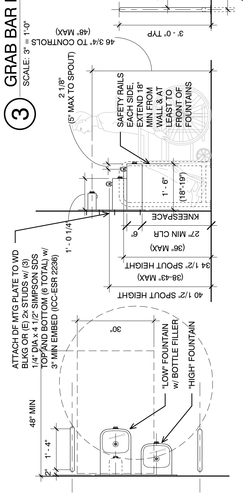
SHEET A-903



2 GRAB BAR MTG CLEARANCES, TYP
SCALE: 1" = 1'-0"

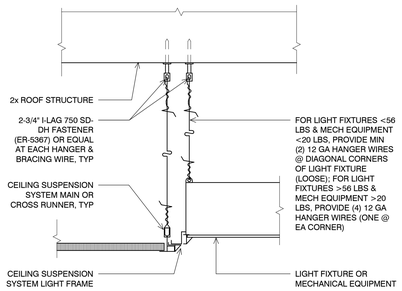


3 GRAB BAR MOUNTING, TYP
SCALE: 3" = 1'-0"

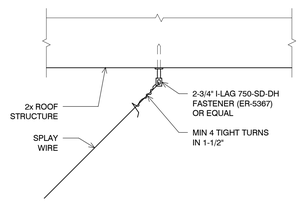


NOTE:
1. SPOUTS @ DRINKING FOUNTAIN SHALL PROVIDE A FLOW OF WATER 4" HIGH MIN. WHERE SPOUTS ARE LOCATED <3" FROM THE FRONT FACE OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 30° MAX. OTHERWISE, THE ANGLE OF THE WATER STREAM SHALL BE 30° MAX.
2. BASIS OF DESIGN - HAWS 1119.14 w/ BOTTLE FILLER
3. ATTACH BF MTG PLATE TO WD BLKG OR (E) 2x STUDS w/ (2) 1/4" DIA x 4 1/2" SIMPSON SDS TOP AND BOTTOM (4 TOTAL) w/ 3" MIN EMBED (ICC-ESR 2236)
4. ATTACH DF MTG PLATE TO WD BLKG OR (E) 2x STUDS w/ (6) 1/4" DIA x 4 1/2" SIMPSON SDS TOP AND BOTTOM (6 TOTAL) w/ 3" MIN EMBED (ICC-ESR 2236)

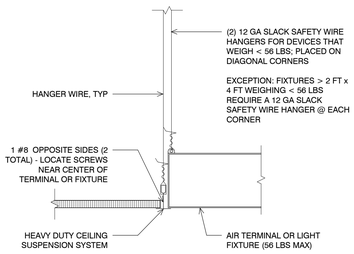
5 DRINKING FOUNTAIN w/ BOTTLE FILLER
SCALE: 1/2" = 1'-0"



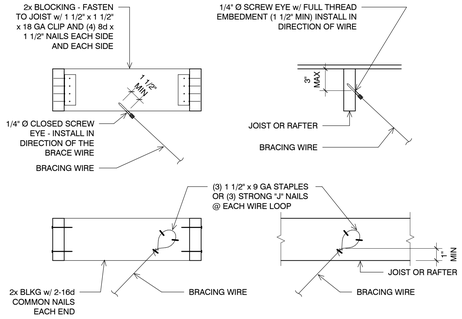
12 ACT_BRACKET SUPPORT
SCALE: 3" = 1'-0"



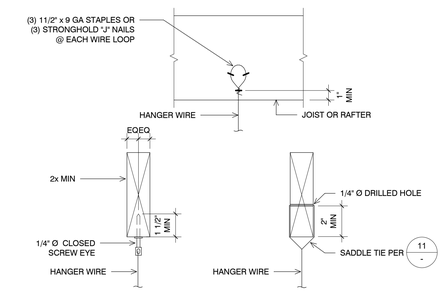
13 ACT_SPLAY WIRE
SCALE: 3" = 1'-0"



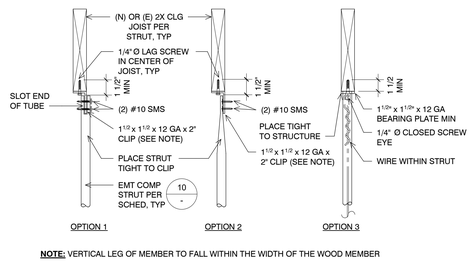
14 FIXTURE SUPPORT DETAIL, TYP
SCALE: 3" = 1'-0"



7 BRACING WIRE CONNECTIONS TO WOOD
SCALE: 3" = 1'-0"



8 HANGER WIRE CONNECTIONS TO WOOD
SCALE: 3" = 1'-0"

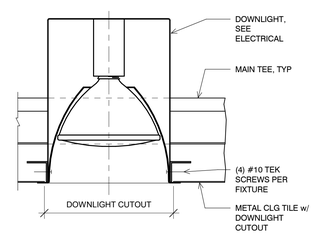


NOTE: VERTICAL LEG OF MEMBER TO FALL WITHIN THE WIDTH OF THE WOOD MEMBER

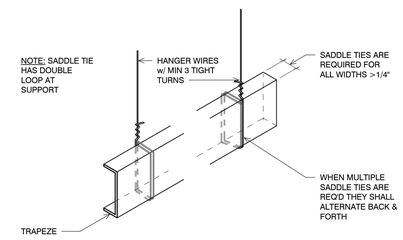
9 COMPRESSION STRUT ANCHOR DETAILS
SCALE: 1 1/2" = 1'-0"

ELECTRICAL METALLIC TUBING (EMT)				
SIZE	I.D.	O.D.	r	MAX LENGTH
1/2"	0.622	0.706	.23	46"
3/4"	0.824	0.922	.31	62"
1"	1.049	1.163	.39	78"
1-1/4"	1.380	1.510	.51	102"
1-1/2"	1.610	1.740	.59	118"
2"	2.067	2.197	.75	150"

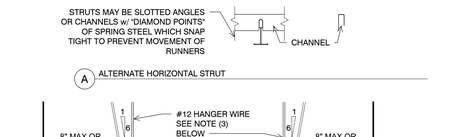
10 EMT COMPRESSION STRUT SCHEDULE
SCALE: 1/4" = 1'-0"



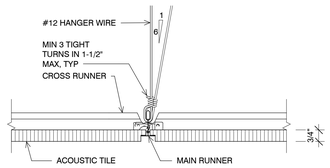
16 (TEMP)_MCT_SUSPENDED METAL PAN CLG @ DOWNLIGHT, TYP
SCALE: 6" = 1'-0"



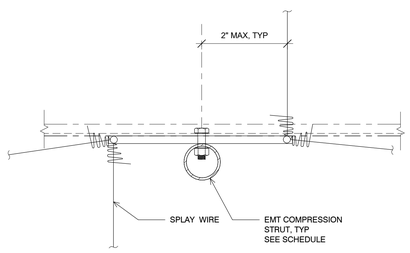
11 SADDLE TIE & TRAPEZE, TYP
SCALE: 3" = 1'-0"



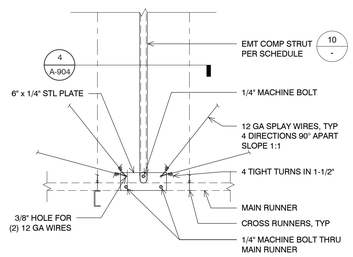
NOTES: (1) 1/4 OF THE LENGTH OF THE END RUNNER, WHICHEVER IS LESS.
(2) NAILS AT ENDS OF HORIZONTAL STRUTS TO BE PLACED w/ NAIL HEAD TOWARD CENTERLINE OF SPAN OF STRUT.
(3) HANGER WIRE NOT REQUIRED FOR CROSS RUNNERS LESS THAN 8" LONG BETWEEN MAIN RUNNER & WALL.
(4) 7/8" WALL ANGLE PERMISSIBLE PER ICC ESR-1308.
(5) DETAILS SIMILAR AT CONCEALED SUSPENSION SYSTEM.



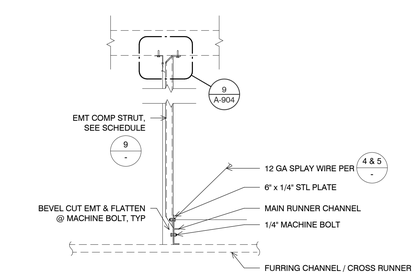
3 CEILING HANGER, TYP
SCALE: 3" = 1'-0"



4 SPLAY BRACE DETAIL - PLAN VIEW, TYP
SCALE: 3" = 1'-0"



5 ACT_SPLAY WIRE DETAIL, TYP
SCALE: 3/4" = 1'-0"



6 COMPRESSION STRUT DETAIL, TYP
SCALE: 3/4" = 1'-0"

1. **CEILING SYSTEM GENERAL NOTES:**
1.01 Ceiling system components shall comply with ASTM ASTM C635 & Section 5.1 of ASTM E580.
1.02 The ceiling grid system must be rated heavy duty as defined by ASTM C635.
1.03 Ceiling systems. The following ceiling system(s) is/are part of the scope of this project:

Manufacturer's Name:	Armstrong Prelude XL	or	USG Donn DX/DXL
Product Evaluation Report Type & Number:	ICC ESR-1508	or	ICC ESR-1222
Manufacturer's Model Number - main runner:	XL7301	or	DX-26
Manufacturer's Model Number - cross runner (4ft):	XL7341	or	DX-424
Manufacturer's Model Number - cross runner (2ft):	XL7328	or	DX-216

1.04 Seismic Wall Clip: BERC2
1.05 Ceiling panel shall not support any light fixtures, air terminals or devices.
1.06 For ceiling installations utilizing acoustical tile panels of mineral or glass fiber, it is not mandatory to provide 3/4" clearance between the acoustical tile panels & the wall on the sides of the ceiling which are free to slip. For all other ceiling panels types, provide 3/4" clearance between the ceiling grid runners/members & walls shall comply with the details on these drawings regardless of ceiling tile material.

2. **MATERIALS:**
2.01 Ceiling wire shall be Class 1 zinc coated (glavanized) carbon steel conforming to ASTM A641. Wire shall be #12 gage (0.106" diameter) with soft temper & minimum tensile strength = 70 ksi.
2.02 Galvanized sheet steel (including that used for metal stud & track compression struts/posts) shall conform to ASTM 653, or other equivalent sheet steel listed in Section A3.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members (AISI S100). Material 43 mil (18 gauge) & light shall have minimum yield strength of 33 ksi. Material 54 (16 gauge) & heavier shall have a minimum yield strength of 50 ksi.
2.03 Electrical metallic tube (EMT) shall be ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength of 30ksi & minimum ultimate strength of 48 ksi.

3. **ATTACHMENT OF HANGERS & BRACING WIRES:**
3.01 Separate all ceiling hanger & bracing wires at least 6 inches from all unbraced ducts, pipes, conduit, etc.
3.02 Hanger & bracing wires shall not attach to or bend around obstructions including, but not limited to, piping, ductwork, conduit, & equipment.
3.03 Electrical metallic tube (EMT) shall be ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength of 30ksi & minimum ultimate strength of 48 ksi.
3.04 Hanger wires that are more than one (horizontal) in six (vertical) out of plumb shall have counter-sloping wires.
3.05 Slack safety wires shall be considered hanger wires for installation and testing requirements.
3.06 Hanger & bracing wire anchorage to the structure shall be installed in such a manner that the direction of the anchorage aligns closely with the direction of the wire (e.g. bracing wire ceiling clips must be bent as shown in the details & rotated as required to align closely with the direction of the wire, screw eyes in wood must be installed so they align closely with the direction of the wire, etc.).

4. **FASTENERS & WELDING:**
4.01 Sheet metal screws shall comply with ASTM C1513, ASME B18.6.3. Penetration of screws through joined material shall not be less than three exposed threads.
4.02 Expansion Anchors: Not Used.
4.03 Power-Actuated Fasteners: Not Used.
4.04 If not otherwise specified in the evaluation report, power-actuated fasteners installed in steel shall be installed so the entire pointed end of the fastener is driven through the steel member.
4.05 Power-actuated fasteners in concrete or masonry are not permitted for bracing wires.
4.06 Concrete reinforcement and prestressing tendons shall be located by non-destructive means prior to installing post - installed anchor.
4.07 Welding shall be in accordance with AWS D1.3 using E60XX series electrodes.

5. **TESTING:**
5.01 All field testing must be performed in the presence of the project inspector.
5.02 Post-installed anchors in concrete used to support hanger wires shall be tested at a frequency of 10%. Power actuated fasteners in concrete shall be field tested for 200 pounds in tension. All other post-installed anchors in concrete shall be tested in accordance with CBC Section 1910A.5.
5.03 Post-installed anchors in concrete used to attach bracing wires shall be tested at a frequency of 50% in accordance with CBC Section 1910.5.

6. **LUMINAIRES:**
6.01 All luminaires shall be positively attached to the ceiling suspension systems by mechanical means to resist a horizontal force equal to the weight of the fixture. A minimum of two screws or approved fasteners are required at each luminaire, per ASTM E580, Section 5.3.1.
6.02 Surface-mounted luminaires shall be attached to the main runner with at least two positive clamping devices. The clamping device shall completely surround the supporting ceiling runner and be made of steel with a minimum thickness of #14 gauge. Rotational spring catches do not comply. A #12 gauge slack safety wire shall be connected from each clamping device to the structure above. Provide additional supports when a luminaire is 8 feet or longer or exceeds 56 pounds. Max spacing between supports shall not exceed 8 feet.
6.03 Luminaires weighing less than or equal to 10 pounds may be supported directly on the ceiling runners & shall have a minimum of one #12 gauge slack safety wire connected from the fixture housing to the structure above.
6.04 Luminaires weighing greater than 10 pounds but less than or equal to 56 pounds may be supported directly on the ceiling runners, but they shall have a minimum of two #12 gauge slack safety wires connected from the fixture housing at diagonal corners to the structure above.
Exception: All luminaires greater than two by four feet weighing less than 56 pounds shall have a #12 gauge slack safety wire at each corner.
6.05 All luminaires weighing greater than 56 pounds shall be independently supported by not less than four taut #12 gauge hanger wires (one at each corner) attached from the fixture housing to the structure above or other approved hangers. The four taut #12 gauge wires or other approved hangers, including their attachment to the structure above, shall be capable of supporting four times the weight of the fixture.

7. **SERVICES WITHIN THE CEILING:**
7.01 All flexible sprinkler hose fitting mounting brackets, ceiling-mounted air terminals or other services shall be positively attached to the ceiling suspension systems by mechanical means. Screws or approved fasteners are required. A minimum of two attachments are required at each component.
7.02 Ceiling-mounted air terminals or other services weighing less than or equal to 20 pounds shall have one #12 gauge slack safety wire attached from the terminal or service to the structure above.
7.03 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 20 pounds but less than or equal to 56 pounds shall have two #12 gauge slack safety wires (at diagonal corners) connected from the terminal or service to the structure above.
7.04 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 56 pounds shall be supported directly from the structure above by not less than four taut #12 gauge hanger wires attached from the structure above or other approved hangers.

8. **OTHER DEVICES WITHIN THE CEILING:**
8.01 All lightweight miscellaneous devices, such as strobe lights, occupancy sensors, speakers, exit signs, etc., shall be attached to the ceiling grid. In addition, devices weighing more than 10 pounds shall have a #12 gauge slack safety wire anchored to the structure above. Devices weighing more than 20 pounds shall be supported independently from the structure above.

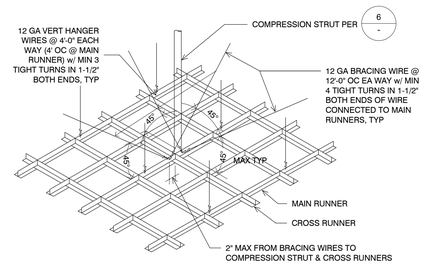
9. **LATERAL FORCE BRACE ASSEMBLY SPACING:** Lateral force bracing assemblies shall be spaced per Table 1 for all values of the component importance factor (I_p) of the ceiling.

TABLE 1 - LATERAL FORCE BRACE ASSEMBLY SPACING		
	Brace Assembly Spacing (ft)	
Design Spectral Acceleration Parameter, S_{DS}	z/h < 0.5[a]	z/H > 0.5[a,b]
$S_{DS} \leq 1.15$	N/A	12' x 12'
$1.15 \leq S_{DS} \leq 1.73$	N/A	N/A
$S_{DS} \leq 1.73$	N/A	N/A

a. Where, as defined in ASCE 7, Section 13.3.1:
z = height in structure of point of attachment of ceiling with respect to the base
h = average roof height of the structure with respect to the base
b. It shall be permitted to use the brace assembly spacing for z/h > 0.5 for the full building height.
9.01 Brace Assembly Spacing: 8' x 8' max (S_{DS} = 1.795; SDS > 1.73; z/h > 0.5)
9.02 There shall be a brace assembly a distance of not more than one-half (1/2) of the spacing listed in Table 1 above from each surrounding wall, expansion joint, & edge of any ceiling vertical offset.

1 SUSPENDED ACOUSTICAL CEILING GENERAL NOTES (DSA IR 25-2.19)
SCALE: 12" = 1'-0"

NOTE:
FOR CONNECTION OF BRACING & HANGER WIRES TO STRUCTURE ABOVE, SEE 7 & 8 / -



2 SUSPENDED CEILING BRACING ASSEMBLY, TYP
SCALE: 3" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125456 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026

SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT

SAN LUIS OBISPO HIGH SCHOOL

1489 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401

NEW CLASSROOM BUILDING & RELOCATION OF MODULAR RESTROOM

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELLAGA STREET SANTA BARBARA CA 93101
TELEPHONE (805) 963-1726 FAX (805) 963-2951
JOE S. WILCOX, AIA
PRINCIPAL-IN-CHARGE
MAT GRADIAS, AIA
PROJECT MANAGER

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ARCHITECT'S STAMP & SIGNATURE
ENGINEER'S STAMP & SIGNATURE

LICENSED ARCHITECT JOE S. WILCOX No. C-9808 Ren. 8-07 STATE OF CALIFORNIA

CONSULTANT INFORMATION

REVISION	DESCRIPTION	DATE	BY
5			
4			
3			
2			
1			

DRAWN TA
CHECKED MG/JW
DATE 06/01/26
JOB. NO. 24010

SHEET TITLE CEILING DETAILS

SHEET A-904

Abbreviations

APPLIES TO STRUCTURAL DRAWINGS ONLY

SYMBOLS USED AS ABBREVIATIONS

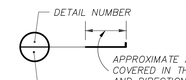
@	AT
∠	ANGLE
℄	CENTERLINE
[	CHANNEL
d	PENNY
⊥	PERPENDICULAR
℞	PLATE(S)
?	DIAMETER
#	SQUARE
w/	WITH
wo/	WITHOUT
#	NUMBER
&	AND
o/	OVER

ABBREVIATIONS

A.C.	ASPHALT CONCRETE
ALT.	ALTERNATE
A.B.	ANCHOR BOLT(S)
APPROX.	APPROXIMATE(LY)
ARCH.	ARCHITECT(URAL)
BSMT.	BASEMENT
BRG.	BEARING
BM.	BEAM
BLK.	BLOCK
BLKG.	BLOCKING
B.O.	BOTTOM OF
B.O.F.	BOTTOM OF FOOTING
BLDG.	BUILDING
B.N.	BOUNDRY NAILING
C.	CAMBER
C.I.P.	CAST–IN–PLACE
CEM.	CEMENT
CNTR.	CENTER(ED)
CHAM.	CHAMFER(ED)
CLR.	CLEAR(ANCE)
CLS.	CLOSURE
C.J.	COLD JOINT or CONTROL JOINT
COL.	COLUMN(S)
CONC.	CONCRETE
C.M.U.	CONCRETE MASONRY UNIT
CONT.	CONTINUE(OUS)
CONTR.	CONTRACTOR( )
CORR.	CORRUGATED
CSK.	COUNTERSINK(SUNK)
C.F.	CUBIC FOOT
C.Y.	CUBIC YARD
DBL.	DOUBLE
D.L.	DEAD LOAD
DEP.	DEPRESS(ED)
DTL.	DETAIL(S)
DIAG.	DIAGONAL
DIA.	DIAMETER
DIM.	DIMENSION(S)
DF.	DOUGLAS FIR
DN.	DOWN
E.	EAST
E.N.	EDGE NAILING
EA.	EACH
E.F.	EACH FACE
(E)	EXISTING
ELEV.	ELEVATION
EQ.	EQUAL
E.B.	EXPANSION BOLT
EXP.	EXPOSE(D)
EXT.	EXTERIOR
F.N.	FIELD NAILING
FAB.	FABRICATE(D)(ION)
F.B.	FLOOR BEAM
F.O.	FACE OF
FOC.	FACE OF CONCRETE
FOM.	FACE OF MASONRY
FOS.	FACE OF STUD
F.S.	FAR SIDE
FIN.	FINISH
FFE.	FINISH FLOOR ELEVATION
FF.	FINISH FLOOR
FLR.	FLOOR
FT.	FOOT, FEET
FTG.	FOOTING
FDN.	FOUNDATION
FUT.	FUTURE
GA.	GAGE, GAUGE
GALV.	GALVANIZE(D)
GL.	GLASS, GLAZING
G.B.	GRADE BEAM
GLB.	GLUED LAMINATED BEAM
GYP.	GYPSUM
GYPBD.	GYPBOARD
HDR.	HEADER
H.V.A.C.	HEATING/VENTILATING /AIR CONDITIONING
HT.	HEIGHT
HK.	HOOK(S)
HORIZ.	HORIZONTAL
INCL.	INCLUDE(D)(ING)
I.D.	INSIDE DIAMETER
IN.	INCHES
INS.	INSULATE(D)(ING)
INSP.	INSPECT(ING)(ION)
INT.	INTERIOR
INTM.	INTERMEDIATE
JT.	JOINT
JST.	JOIST
KO.	KNOCKOUT
K.J.	KEYED JOINT
L.	LENGTH
LB.	POUND
LAM.	LAMINATE(D)
LDGR.	LEDGER
LH.	LEFT HAND
L.L.	LIVE LOAD
M.B.	MACHINE BOLT
M.I.	MALLEABLE IRON
MFR.	MANUFACTURER
MAS.	MASONRY
M.L.	MASONRY LINTEL
MATL.	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MED.	MEDIUM
MMB.	MEMBRANE
M.F.D.	METAL FLOOR DECKING
M.R.D.	METAL ROOF DECKING
MDSP.	MIDSPAN
MISC.	MISCELLANEOUS
N.	NORTH
(N)	NEW
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
N.S.	NEAR SIDE
O.C.	ON CENTER
OPNG.	OPENING
O.W.J.	OPEN–WEB JOIST
OPP.	OPPOSITE
O.D.	OUTSIDE DIAMETER
PNL.	PANEL
PRLN.	PURLIN(S)
PAR.	PARALLEL
PARTN.	PARTITION
PVMT.	PAVEMENT
PERF.	PERFORATE
PLY.	PLYWOOD
P.W.J.	PLYWOOD WEB JOIST
PT.	POINT
PVC.	POLYVINYLCHLORIDE
PCF.	POUNDS PER CUBIC FOOT
PLF.	POUNDS PER LINEAL FOOT
PSI.	POUNDS PER SQUARE INCH
PREFAB.	PREFABRICATE(D)
PREFIN.	PREFINISH(ED)
P.T.D.F.	PRESSURE TREATED DOUGLAS FIR
PL.	PLATE(S)
PLN.	PROPERTY LINE
RAD.	RADIUS
RLNG.	RAILING
REF.	REFER(ENCE)
REINF.	REINFORCE(D)
REQ.	REQUIRE(D)
REV.	REVERSE(D)
REV.	REVISE(ION)
RH.	RIGHT HAND
R.D.	ROOF DRAIN
RFG.	ROOFING
RM.	ROOM
R.O.	ROUGH OPENING
S.J.	SAWED JOINT
SCHED.	SCHEDULE
SEC.	SECTION
SHT.	SHEET or SHEATHING
SIMP.	"SIMPSON" (a manufacturer)
SIM.	SIMILAR
S.	SOUTH
SPC.	SPACE(R)(D)(ING)
SPEC.	SPECIFICATION
SQ.	SQUARE
STAG.	STAGGER(ED)
STL.	STEEL
STD.	STANDARD
STRL.	STRUCTURAL
SYM.	SYMMETRICAL
THRD.	THREAD(ED)
THK.	THICK
T&G	TONGUE & GROOVE
T.O.	TOP OF
TOC.	TOP OF CONCRETE
TOCB.	TOP OF CURB
TOF.	TOP OF FOOTING
TOG.	TOP OF GRADE
TOM.	TOP OF MASONRY
TOP.	TOP OF PAVING
TOPL.	TOP OF PLATE
TOS.	TOP OF SLAB
TOSHTG.	TOP OF SHEATHING
TOSTL.	TOP OF STEEL
TOW.	TOP OF WALL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
V.B.	VAPOR BARRIER
VNR.	VENEER
VERT.	VERTICAL
WF.	WIDE FLANGE
WWF.	WELDED WIRE FABRIC
WP.	WATERPROOFING
W.	WEST
W.	WIDTH or WIDE
WD.	WOOD
W.I.	WROUGHT IRON
WM.	WIRE MESH

Symbols

APPLIES TO STRUCTURAL DRAWINGS ONLY

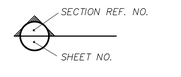


DETAIL

APPROXIMATE AREA COVERED IN THE DETAIL AND DIRECTION OF VIEW

A DETAIL CUT WHERE THE DIRECTION OF THE VIEW IS IDENTICAL IN EITHER DIRECTION OR IS A MIRROR IMAGE OF EACH OTHER

DETAIL CUT WHERE MORE THAN ONE DETAIL IS REQUIRED FOR THE ENTIRE PICTURE



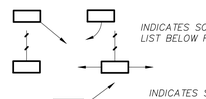
SECTION

KEYED NOTE NUMBER

BOLTED HOLDOWNS

STRAP TYPE HOLDOWNS

CHANGE IN ELEVATION



INDICATES SCHEDULED ITEM. REFER TO LIST BELOW FOR ITEMS SCHEDULED.

INDICATES SHEAR WALL PER SHEAR WALL SCHEDULE

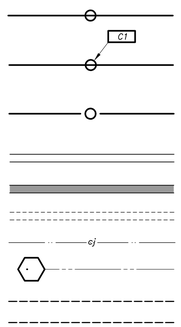
COLUMN TYPES :

PIPE

TUBE STEEL

WIDE FLANGE

WOOD POST



COLUMN TERMINATES WITH FRAMING MEMBERS OVER COLUMN

COLUMN ORIGINATING ON TOP OF BEAM. THIS MAY OCCUR WHEN THERE IS NO COLUMN BELOW.

COLUMN CONTINUOUS WITH FRAMING MEMBERS CONNECTED TO SIDES OF COLUMN.

INDICATES STUD WALLS

INDICATES SHEAR WALLS

INDICATES WALLS BELOW DEPICTED LEVEL

CRACK CONTROL JOINT

GRID LINE

STRUCTURAL CONCRETE FOOTING

Structural General Notes

APPLIES TO STRUCTURAL DRAWINGS ONLY

SITE PREPARATION, EXCAVATING, GRADING, FILLING, & UTILITY TRENCHES
(Refer to the Soils Reports for more info. not listed below)

1. *Notify the geotechnical engineer when clearing and demolition commence.*
2. *Notify DSA Inspector prior to grading commencing. Make all necessary arrangements for their inspection.*
3. *Removing any existing improvements, vegetation, large roots, debris, organic topsoil, and other deleterious materials. Existing utility lines that will not remain in service should be either removed or abandoned. The appropriate method of abandonment will depend upon the type and depth of the utility. Recommendations for abandonment can be made as necessary.*
4. *Voids created by the removal of materials or utilities described above should be called to the attention of the geotechnical engineer. No fill should be placed unless the underlying soil has been observed by the geotechnical engineer.*
5. ***Following site preparation, the existing soils and bedrock within the building area and sitework retaining wall areas should be overexcavated to a level plane at a minimum of 2 feet below lowest existing grade, or 1 foot below the deepest foundation element, whichever is deeper. The resulting excavated surface should be scarified, moisture conditioned, and recompacted.***
6. *Following site preparation and any excavations to grade, and prior to placement of fill, the soil in all other grading areas should be scarified, moisture conditioned and recompacted.*
7. *Voids created by dislodging cobbles and/or debris during scarification should be backfilled and recompacted, and the dislodged materials should be removed from the work area.*
8. *Previously removed site soils may be placed and compacted in thin, moisture conditioned lifts to 18 inches below bottom of slab elevation in the building area. **The final 18 inches of fill to support interior slabs–on–grade should be nonexpansive and should be placed in moisture conditioned and compacted lifts.***
9. *Nonexpansive materials are defined as imported soils that fall in the GW, GM, GC, SP, SW, SC and SM categories per ASTM D 2487–17, and that have an expansion index of 10 or less (ASTM D 4829–21). Assuming its nonexpansive nature is verified, and it is kept clean and segregated from the underlying expansive site clays, the existing poorly graded sand with gravel fill soil may be used as nonexpansive material during the site grading process.*
10. *All imported soils used in the building area should be nonexpansive and should have strength qualities equal to or better than the site soils. In addition, they should not exceed the geotechnical corrosivity potential of the site soils. See the Corrosivity Test Report by CERCO Analytical for the New Swimming Pool and Equipment/Locker Building project to the south (Appendix C of ESP 2016b, included in Appendix C of this report) and the Soil Corrosivity Study by HDR, Inc., for the Annex/Classroom Building project to the northeast (Appendix D of ESP 2016b, included in Appendix C of this report) for the corrosivity parameters of the site soils.*
11. *Proposed imported materials should be reviewed by the geotechnical engineer before being brought to the site, and on an intermittent basis during placement. In accordance with the requirements of the State of California's Department of Toxic Substances Control, any soil imported to a site should be sourced from SMARA (Surface Mining and Reclamation Act) approved quarries; non–SMARA quarry material proposed for use should be tested by this firm for the presence of environmental contaminants before being imported to the site.*
12. *All materials used as fill should be cleaned of any debris and rocks larger than 3 inches in diameter. When fill material includes rocks, the rocks should be placed in a sufficient soil matrix to ensure that voids caused by nesting of the rocks will not occur and that the fill can be properly compacted.*
13. *All fill (on site or imported) should be placed in thin, moisture conditioned and level lifts, and compacted through the entire building area or the particular grading area being worked.*
14. *Placement of gravel layers, geotextiles, geogrids, or additional overexcavation may be recommended if loose or unstable conditions are encountered during grading. No fill should be placed in any grading area if the underlying soil is loose or unstable.*
15. *The recommended soil moisture content should be maintained throughout construction, and during the life of the structure and all other improvements. Failure to maintain the soil moisture content can result in desiccation cracks and disturbance, which are an indication of degradation of the soil compaction. If desiccation cracks are allowed to develop, or if soils near improvements such as foundations, flatwork, etc. are otherwise disturbed, damage to those improvements may result. Soils that have cracked or are otherwise disturbed should be removed, moisture conditioned, and recompacted.*
16. *Unless otherwise recommended, utility trenches adjacent to foundations should not be excavated within the zone of foundation influence.*
17. *Utility trenches adjacent to foundations should not be excavated within the zone of foundation influence, as shown in Typical Detail A in Appendix E.*
18. *Utilities that must pass beneath foundations should be placed with properly compacted utility trench backfill. The foundation should be designed to span the trench.*
19. *A select, noncorrosive, easily compacted sand should be used as bedding and shading immediately around utilities. The site soil or approved imported nonexpansive soil may be used for trench backfill above the select material. In flatwork areas, trench backfill should match the thickness of any imported nonexpansive material designated to support the flatwork.*
20. *2 soils investigation reports (1 for the New Classroom Building & 1 for the relocated Existing Modular Restroom) have been prepared by Earth Systems. Earth and foundation Work is to be done in compliance with the recommendations of these report. Copies of the soils investigation are available at the Architect's office. Reference projects file no. 300933–026, dated October 3, 2024 (New Classroom Building) & no. 300933–027, dated June 3, 2025 (Existing Modular Restroom).*

FOUNDATIONS

1. *Extend all footings a minimum of **21" deep** (New Classroom Building) & **18" deep** (Existing Modular Restroom) below the lowest adjacent grade within 7 feet laterally from the bottom of the footing.*
2. *Prior to pouring concrete foundations, all loose earth, water, and debris is to be removed from foundation bed.*
3. *See Soils Report for special grading procedure under building and paved areas.*
4. *Design soil bearing pressure is **3,000** psf DL + LL (New Classroom Building)*
   ***2,500** psf DL + LL (Existing Modular Restroom)*
5. *The bottom elevation of all footings is subject to the approval of the Soils Engineer.*
6. *Provide for de–watering of all excavations from either surface water or seepage.*
7. *Protect all foundation excavations on the site from caving.*
8. *After foundation excavations have been completed and prior to placing reinforcing and formwork, the foundation bed is to be inspected by the Soils Engineer. All loose material is to be removed.*
9. *Secure in position prior to inspection and pouring concrete or grouting block, all anchor bolts, holdown anchors, reinforcing steel, dowels, inserts, etc. For anchor bolts and holdowns, use Simpson Anchormate anchor bolt holders. Stabbing bolts after pouring will not be allowed.*

CONCRETE

1. *All concrete for the footings, flat work, and miscellaneous items is to have a minimum ultimate compressive strength of 3,000 psi at 28 days, unless noted otherwise on the Drawings.*
2. *Reinforcing bars are to be of intermediate grade conforming to ASTM A 615, grade 40 for #2 and #3 bars and grade 60 for #4 bars and larger.*
3. *Cement is to be type II, low alkali (no higher than 0.60%), conforming to ASTM C–150. Up to a maximum of 15% of cement may be substituted with Fly Ash (type "F").*
4. *All aggregate used in concrete are to conform to ASTM C–33. Aggregate shall be uniformly graded, with the maximum aggregate size required to be 1" to 3/4".*
5. *Coarse and fine aggregate (sand) are to come from a source proven to have non–reactive characteristics. Coarse aggregate which is heavy media processed (Saticoy, Sisquoc), Santa Margarita rock, or San Gabriel rock will be considered as meeting the criteria of non–reactivity. Moorpark sand (Quality, Best, Blue Star) will be considered as meeting the requirements of non–reactivity. Other aggregates meeting or exceeding the aggregate reactivity characteristics of the aggregates listed above are acceptable upon submittal of adequate documentation (ASTM C289 and ASTM C277 test results that are not more than 2 years old). Use an approximate 60% to 40% ratio of coarse aggregate to fine aggregate (by weight) respectively.*
6. *Splices of reinforcing steel are to be lapped as specified in these drawings and securely wired together. Splices of adjacent reinforcing bars shall be staggered wherever possible. See Drawings for particular requirements for splice breaks.*
7. *Minimum concrete cover for reinforcing is as follows:*

Cast against and permanently exposed to earth	3"
Cast in forms and exposed to earth or weather	2"
Interior slabs, walls, and joist	1"
Interior beams, girders, and columns	1–1/2"

8. *Location of sleeves for pipes, and for pipes intended to be cast in concrete, for which no specific details are shown shall be subject to the review of the Structural Engineer.*
9. *Exterior concrete slabs on grade are 4" thick and are reinforced with #3's @ 24" o.c. each way, placed 1–3/4" from the top of the slab, unless noted otherwise on the Plans. This reinforcing is to be supported by concrete blocks 1–1/2" thick, spaced at intervals not exceeding 4'–0". Exterior slabs are to be underlain with a 2" sand layer.*
10. *Secure in position prior to inspection and pouring concrete, all anchor bolts, holdown anchors, reinforcing steel, dowels, inserts, etc. For anchor bolts and holdowns, use Simpson Anchormate anchor bolt holders. Stabbing bolts after pouring slab will not be allowed.*
11. *Concrete shall contain a minimum of 6.00 sacks of cement per cubic yard, a maximum water/cement ratio of .45, and shall have a slump no greater than 4". Do not exceed 34 gallons of water per cubic yard of concrete. Use water reducing admixture to achieve workable slump.*
12. *Continuous inspection by a Deputy Inspector approved by the Building Department is required for all concrete with an ultimate compressive strength greater than 2500 psi.*
13. *Make and test concrete cylinders in accordance with Section 1704.4 of the CBC.*
14. *Spray slabs with a curing compound immediately after finishing.*
15. *Do not place backfill behind retaining walls sooner than 14 days after concrete or grout is placed.*
16. *Vibrate all concrete as it is being placed with electronically–operated vibrating equipment.*
17. *Welded reinforcing bars to conform to ASTM A706.*

SAWN LUMBER

1. *Framing and sheathing grades are as follows:*

Joists and rafters	Doug Fir No. 1
4x & 6x beams/headers & posts	Doug Fir No. 1 or better
Wall studs, top & sill plates	Doug Fir No. 2
Blocking, stripping, & misc	Doug Fir No. 2
Plywood and OSB	APA sheathing rated Struct 1, Exposure 1 conforming to U.S. Product Standards DOC PS–1 & DOC PS–2.

2. *For minimum nailing per California Building Code, see nailing schedule below.*
3. *Anchor non–bearing interior stud walls on concrete slabs with ⅜" diameter x 7" anchor bolts at 4'–0" o.c. Where curbs are not required, it is acceptable to substitute .157" diameter powder driven pins at 16" o.c., and a maximum of 9" from ends. Use a minimum of 2 fasteners per plate. Use low velocity "X–U" pins by HILTI (ICC#ESR–2269), or 1524 fasteners by Ramset (ICC#ESR–1799), or other approved equal (ICC reports are required).*
4. *Provide minimum anchorage of bearing walls and exterior walls with ⅝" diameter x 12" anchor bolts at 4'–0" o.c. with a bolt between 4" and 12" from the end of each piece.*
5. *Drill holes in wood for bolts ⅛" larger than the nominal size of the bolt, unless noted otherwise on the Drawings.*
6. *Provide all bolts with standard cut washers under heads and/or nuts where in contact with wood.*
7. *Where stud wall terminates at a concrete or masonry wall, fasten the last stud to the wall with 3/8" diameter x 6" long bolts at the top, bottom, and mid–height of the stud. Maximum vertical spacing of anchors shall be 6'–0".*
8. *Pre–drill lag bolt holes such that the clearance hole for the shank shall have the same diameter as the shank, and the same depth of penetration as the length of the unthreaded shank. The lead hole for the threaded portion shall have a diameter equal to 40% to 70% of the shank diameter in the wood and a length equal to at least the length of the threaded portion. The larger percentile shall apply to top screws of greater diameters. The threaded portion of the lag screw shall be inserted in its leaad hole by turning with a wrench,not by driving with a hammer.*
9. *Stagger splices in upper and lower plates at the top of stud walls at least 4'–0". Refer to typical detail.*
10. *Solid block all 2x joists and rafters at points of bearing. Where the joist or rafter span exceeds eight (8) feet, provide wood cross–bridging, not less than 2" x 3" nominal, metal cross–bridging of equal strength, or solid blocking between joists. Cross–bridging or blocking may be omitted for roof and ceiling joists 8" and less in depth, unless noted otherwise on the Plans.*
11. *Provide one plyclip between each joist at all unblocked edges of plywood sheathing. T&G plywood may be used throughout as an alternate to using plyclips.*
12. *Where joists or rafter spacing exceeds 24", provide T&G plywood or block all edges with 2x4 flat with Simpson "Z" clip each end.*
13. *Minimum dimension of any plywood sheet is to be 24" and the minimum area is to be 8 square feet. Smaller dimensioned sheets may be used only if all edges are solid blocked and edge nailed.*
14. *Provide ⅛" gap at all adjoining plywood panel edges.*
15. *Machine applied nailing: Demonstrate satisfactory installation on the job. Nailing tools used for diaphragm and shear wall sheathing attachment must have adjustable depth control features. It is not sufficient to control over–driving by adjusting air pressure. The Structural Engineer will review machine nailing to confirm continued satisfactory performance. Nails shall not penetrate the outer plywood ply more than if the nail was installed with a hammer. If more than 20% of the nails around the perimeter of any panel are over–driven by up to 1/8", one new nail for every two over–driven shall be added (repair per APA report No. T94–9). Any two nails over–driven by more than 1/8" shall have an additional nail added.*
16. *All timber connectors are to be galvanized, or painted with corrosion resistant polymer paint.*
17. *Posts or columns supported by a concrete slab or footing that is in direct contact with the earth shall be preservative treated wood.*
18. *Members exposed to view: Select for best appearance available in grade specified, free of heart center*
19. *rings, checks, and splits. Grade stamps exposed to view will not be acceptable. Remove all stains or gouges prior to installation.*
20. *Use Douglas Fir pressure impregnated lumber for sill plates resting on or against concrete or masonry and at other exterior locations. Use a Wolman CCA–C product or approved equal. When pressure treated lumber is in contact with steel connectors, the pressure treatment compound shall be no more corrosive than CCA–A. Wood treatment to comply with CBC Section 2303A.1.8 which references AWPA Standard U1 & M4.*
21. *Provide glued laminated beams of the size and camber shown on the Plans. Use a fabricator that is a member of the AITC. Furnish the Owner with an AITC certificate upon completion of fabrication. All lumber is to be Douglas Fir. Use laminations resulting from usage of 2" nominal thick material. Laminations to conform to combination 24F–V4. Appearance grade to be ARCHITECTURAL. Use exterior type glue. Fabrication of all glued laminated beams to conform to Voluntary Product Standard PS 56–73.*
22. *Fasteners in contact with preservative–treated wood shall be of hot–dipped zinc–coated galvanized steel, stainless steel, silicon bronze or copper. Fasteners other than nails, timber rivets, wood screws, and lag screws shall be permitted to be of mechanically deposited zinc–coated steel with coating weights in accordance with ASTM B 695, Class 55 minimum. Connectors that are used in exterior applications and in contact with preservative–treated wood shall have coating types and weights in accordance with the treated wood or connector manufacturer's recommendations. In the absence of manufacturer's recommendations, a minimum of ASTM A 653, type G185 zinc–coated galvanized steel, or equivalent, shall be used. Exception: Plain carbon steel fasteners in SBX/DOT and zinc borate preservative treated wood in an interior, dry environment shall be permitted.*
23. *Fasteners for fire–retardant–treated wood used in exterior applications or wet or damp locations shall be of hot–dipped zinc–coated galvanized steel, stainless steel, silicon bronze or copper. Fasteners other than nails, timber rivets, wood screws and lag screws shall be permitted to be of mechanically deposited zinc–coated steel with coating weights in accordance with ASTM B 695, Class 55 minimum.*
24. *Fasteners for fire–retardant–treated wood used in interior locations shall be in accordance with the manufacturer's recommendations. In the absence of manufacturer's recommendations, see previous note.*

LAMINATED VENEER LUMBER (LVL) AND PARALLEL STRAND LUMBER (PSL)

1. *Parallam and Microllam designations in the Drawings are those by Weyerhaeuser or RedBuilt (ICC ESR–2993). Other manufacturers' joists which are equal to those of Weyerhaeuser & RedBuilt are acceptable with the review and approval of the Structural Engineer at an additional cost to the Contractor.*
2. *Multiple built–up Microllam sections shall be nailed or bolted together per specifications provided by Weyerhaeuser.*
3. *All products shall conform to National Evaluation Services Inc. (NES) report no. NER–125 and NER–292 and to ICC#ESR–1387.*
4. *Parallam beams to be 2.2E.*
5. *Microllam beams to be 2.0E.*

STEEL

1. *Wide flange "W" shapes shall conform to ASTM A992 Grade 50, unless specifically specified elsewhere on the plans. "S", "M", "HP", and channels are to conform to ASTM A572, grade 50. Plates, angles, and misc. steel sections shall conform to ASTM A36.*
2. *Anchor bolts and threaded studs (hooked, headed, and threaded anchor rods): conform to ASTM F1554, Gr. 36 ksi, **unless where noted otherwise on the Plans**.*
3. *High strength bolts used in steel to steel connection: conform to ASTM A325N. Unless pre–tensioned or friction type connections are specified, tighten bolts requiring the full effort of an ironworker with an ordinary spud wrench.*
4. *Pipe columns: conform to ASTM A–53, grade B.*
5. *Tube and circular steel sections (HSS): conform to ASTM A–500, grade B Fy = 46 ksi.*
6. *Welding: conform to AWS standards, latest addition.*
7. *All welding shall be done by the shielded arc method. All welders shall be properly qualified and AWS certified for the kind of weld they perform. Surplus metal shall be dressed off to smooth, even surfaces where welds are not exposed to view. All field–welding shall be inspected by a testing laboratory approved by the Structural Engineer.*
8. *Use low hydrogen electrodes for welding reinforcing steel. All welded reinforcing steel to conform to ASTM A706.*
9. *All steel on the exterior of the building shall be hot dipped galvanized after fabrication. Field welds shall be painted with "Galvalloy".*
10. *All steel not encased in concrete or concrete block shall have one shop coat of zinc chormate, or other approved paint 2 mils thick. After erection, all nuts, bolt heads, and abrasions to the shop coat shall receive a tough up coat. Paint shall be omitted at places to receive sprayed on fire proofing, and areas with friction type bolts.*
11. *Submit shop drawings of all steel work to the Structural Engineer for review. Submit sufficient copies of shop drawings so that the Architect and Structural Engineer may each retain one copy for their record. Any fabrication prior to the review of shop drawings shall be done at the sole risk of the Contractor. The Structural Engineer will require that the shop drawings be in his office at least 3 weeks for review. [More time will be required on projects where there are more than 50 steel shop drawings]. Submit shop drawings soon enough so that the required Structural Engineer's review period will not impact the construction schedule. Contact the Structural Engineer when shop drawings are begun to confirm schedule.*

GENERAL

1. *All materials and workmanship are subject to the review of the Architect and Structural Engineer.*
2. *Report any and all discrepancies, ambiguities, unclear items or items that are subject to more than one interpretation, on the Drawings and/or Specifications to the Structural Engineer for clarification before proceeding with Work.*
3. *All Work done under this contract is to comply with the 2022 edition of the California Building Code.*
4. *Design and install all temporary bracing and shoring to ensure the safety of the Work until it is in its completed form. When required by law, employ a Civil Engineer to design shoring, bracing, and installation plans for structural items.*
5. *Verify all dimensions prior to starting Work. The Architect and Structural Engineer are to be notified of any discrepancies or inconsistences. Check and coordinate all dimensions. See architectural Drawings for dimensions and non–structural items not shown on these Plans. Do not scale the Drawings to obtain dimensions.*
6. *All scaffoldings and shoring is to comply with the rules and regulations of the Industrial Safety Commission of the State of California.*
7. *The Structural Engineer will provide only periodic observation of the Work.*
8. *Fees or costs associated with the redesign or modification of these Plans by the Architect or Structural Engineer as a result of deviation by the Contractor from the Plans and Specifications, or due to errors, faulty materials or faulty workmanship, is to be paid to the Structural Engineer by the Contractor.*
9. *The Contractor is required to assume sole and complete responsibility for job site conditions during the course of construction of the project, including safety of all persons and property. This requirement applies continuously and is not limited to normal working hours. The Contractor further agrees to defend, indemnify and hold harmless the Structural Engineer from any and all liability, real or alleged, in connection with the performance of Work of this project, excepting liability arising from the sole negligence of the Structural Engineer.*
10. *Neither the professional activities nor the presence of the Structural Engineer at the construction site relieves the Contractor of his obligation, duties and responsibilities for construction means, methods, sequences, techniques and procedures necessary for the Contractor to complete the Work in accordance with the Plans and Specifications in a manner to ensure the health and safety of persons who enter the construction site.*
11. *Any differences between the existing construction as observed in the field and as shown on the Drawings is to be reported to the Structural Engineer before proceeding with Work.*
12. *Bidders must visit the building site and familiarize themselves with the existing conditions. Discrepancies or deletions must be brought to the attention of the Architect and Structural Engineer before bid date for correction.*
13. *All work has been done in a manner as required for new structures.*
14. *Protect adjoining property and buildings as defined in Section 1804A.1 of the California Building Code.*

DESIGN PARAMETERS

1. *Seismic*
   Risk Category – III
   Seismic Design Category – D
   Site Class – C
   Importance Factor, Ie = 1.25
   Response Modification Factor, R = 6.5

	New Classroom Building	Existing Modular Restroom
Spectral Response Coefficients,	S_s = 1.079g	S_s = 1.080g
	S_1 = 0.397g	S_1 = 0.398g
	F_a = 1.2	F_a = 1.2
	F_v = 1.5	F_v = 1.5
	S_{DS} = 0.863g	S_{DS} = 0.864g
	S_{D1} = 0.397g	S_{D1} = 0.398g

   Cs = 0.17 (LRFD) (for both New Classroom Building & Existing Modular Restroom)
   New Classroom Building Base Shear, V = 0.22W (LRFD w/ Rho =1.3) N–S
   = 0.17W (LRFD w/ Rho =1) E–W
   Existing Modular Restroom Base Shear, V = 0.17W (LRFD w/ Rho =1)
   Seismic Force Resisting System – The New Classroom has been designed utilizing wood stud walls sheathed with wood structural panels. An elastic static analysis was performed using the Equivalent Lateral Force Procedure of ASCE 7–16 Section 12.8.
2. *Wind*
   Basic Wind Speed, V = 100 mph
   Importance Facor, I = 1
   Wind Exposure – C
   Mean Roof Height – 15'–0" MAX.
   Internal Pressure Coefficient = ±0.18
   Component & Cladding (LRFD) = 24 psf (Zone 4) , 30 psf (Zone 5)
   Awning Net Wind Load (LRFD) = +20.9 psf, –16.2 psf (non–concurrent w/ + wind)

NOTIFICATION

Notify the Structural Engineer 48 hours before the following times:
1. *Prior to the time that the site grading work begins.*
2. *After foundation excavations have been made and prior to placing reinforcing steel and formwork.*
3. *Prior to all concrete pours.*
4. *When rough framing is completed and prior to start of finish work.*
5. *Prior to covering any plywood sheathing nailing.*
6. *Prior to covering any shear wall holdown anchors.*

STRUCTURAL OBSERVATION

Observation of the construction shall be provided by the Architect or Structural Engineer in General Responsible Charge as set forth in Title 24, Part 1. At the conclusion of the work included in this permit, the structural observer shall submit to the building official a written statement that the site visits have been made and identify any reported deficiencies that, to the best of the structural observer's knowledge, have not been resolved. Structural observation shall be provided for the following stages of construction.

1. *Prior to concrete pours to observe excavation dimensions, reinforcement, and required embedded items.*
2. *Prior to the covering of any new structural framing, plywood sheathing nailing, & shear wall holdown anchors.*

SPECIAL INSPECTIONS (CBC Sections 1704 & 1705)

1. *See Sheet **SO.2**.*

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125456 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026

SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT
SAN LUIS OBISPO HIGH SCHOOL
1499 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401
NEW CLASSROOM BUILDING

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELLAGA STREET SANTA BARBARA CA 93101
TELEPHONE (805) 963-1726 FAX (805) 963-2951

JOE S. WILCOX AIA
PRINCIPAL-IN-CHARGE

MAT GRADIAS, AIA
PROJECT ARCHITECT

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ARCHITECT'S STAMP & SIGNATURE



ENGINEER'S STAMP & SIGNATURE



CONSULTANT INFORMATION

Stork, Wolfe, & Associates
Structural Engineers
555 Chorro St., Ste. A1 San Luis Obispo, CA 93405
Tel. (805) 548-8600 Fax (805) 548-8601

REVISION	DESCRIPTION	DATE	BY
5	-	-/-/-	XX
4	-	-/-/-	XX
3	-	-/-/-	XX
2	-	-/-/-	XX
1	-	-/-/-	XX

DRAWN	VB
CHECKED	GHS
DATE	06/01/26
JOB. NO.	SWA 24066
SHEET	STRUCTURAL GENERAL NOTES,
TITLE	ABBREVIATIONS, & SYMBOLS
SHEET	S-001

Special Inspection Tables

APPLIES TO STRUCTURAL DRAWINGS ONLY

SPECIAL INSPECTIONS (CBC Sections 1704A & 1705A)

The owner or the architect of record, acting as the owner's agent, shall employ one or more special inspectors who are approved by DSA who shall provide inspections during construction on the following, but not limited to, types of work:

1. *Reinforced concrete per Table 1705A.3.*
   - *A. Required for all concrete designed for f'c exceeding 2,500 psi.*
   - *B. Exceptions – Special Inspections shall not be required for:*
     1. *Concrete patios, driveways and sidewalks, on grade.*
2. *Refer to project Form* ***DSA–103, List of Required Structural Tests & Special Inspections,*** *for all structural testing and special inspection requirements. In the event of a conflict between the drawings, specifications and Form DSA–103, the more stringent requirement shall apply.*

TABLE 1705A.2.1

REQUIRED SPECIAL INSPECTIONS AND TESTS OF STEEL CONSTRUCTION

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD	CBC REFERENCE [a]
1. Material identification and testing of high–strength bolts, nuts, and washers:				
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	—	X	RCSC: 1.5, AISC 360: A3.3, J3.1, and applicable ASTM material standards	2202A.1, [DSA–SS/CC] 2202.1
b. Manufacturer's certificate of compliance required.	—	X	RCSC: 1.5 & 2.1, AISC 360: A3.3 & N3.2	—
c. Testing of high strength bolts, nuts and washers.	—	—	RCSC: 7.2, Aplicable ASTM materials standards	1705A.2.6, [OSHPD 1&4] 2213A.1
2. Inspection of high–strength bolting:				
a. Snug–tight joints.	—	X	RCSC: 7–9, AISC 360: J3.1, J3.2, M2.5 & N5.6	1705A.2.6, 2204A.2 [DSA–SS/CC] 2204.2
b. Pretensioned and slip–critical joints using turn–of–nut with matchmarking, twist–off bolt or direct tension indicator methods of installation.	—	X		
c. Pretensioned and slip–critical joints using turn–of–nut without matchmarking or calibrated wrench methods of installation.	X	—		
3. Material identification and testing of structural steel and cold–formed steel deck:				
a. For structural steel, identification markings to conform to AISC 360.	—	X	AISC 360: A3.1	2202A.1, [DSA–SS/CC] 2202.1
b. For other steel, identificataion markings to conform to ASTM standards specified in the approved construction documents.	—	X	Applicable ASTM material standards	2202A.1, [DSA–SS/CC] 2202.1
c. Manufacturers' certified test reports.	—	X	AISC 360: A3.1 & N3.2	—
d. Testing of unidentified steel.	—	—	Applicable ASTM material standards	2202A.1, [DSA–SS/CC] 2202.1
4. Material identification of welding consumables and testing of welded elements:				
a. Identification markings to conform to AWS specification in the approved construction documents.	—	X	AISC 360: A3.5 & N3.2 and applicable AWS A5 documents	—
b. Manufacturer's certificate of compliance required.	—	X	AISC 360: N3.2	—
c. Nondestructive testing of welded joints.	—	—	AISC 360: N5.5	—
5. Inspection of welding:				
a. Structural steel and cold–formed steel deck:				
1. Complete and partial joint penetration groove welds.	X	—	AISC 360: J2, M2.4, & M4.5, AWS D1.1 AWS D1.8	1705A.2.1, 1705A.2.5
2. Multipass fillet welds.	X	—		
3. Single–pass fillet welds > 5/16"	X	—		
4. Plug and slot welds.	X	—		
5. Single–pass fillet welds ≤ 5/16"	—	X		
6. Floor and roof deck welds.	—	X	AWS D1.3, SDI QA/QC	1705A.2.1, 1705A.2.2 1705A.2.5
7. End–welded studs.	—	X	AWS D1.1	1705A.2.5, 2213A.2 [DSA–SS/CC] 2212.6.2
8. Welded sheet steel for cold–formed framing members.	—	X	AWS D1.3	1705A.2.5, 1705A.2.4.1
b. Reinforcing steel:				Table 1705A.3, Item2
6. Inspection of steel frame joint details for compliance:				
a. Details such as bracing and stiffening.	—	X	AISC 360: N5.8	1705A.2.1
b. Member locations.	—	X		
c. Application of joint details at each connection.	—	X		

For SI: 1 inch=25.4 mm.

a. Where applicable, see also Section 1705A.13, Special inspection for seismic resistance.

TABLE 1705A.6

REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	—	X
2. Verify excavations are extended to proper depth and have reached proper material.	—	X
3. Perform classification and testing of compacted fill materials.	—	X
4. During fill placement, verify use of proper materials and procedures in accordance with the provisions of the approved geotechnical report. Verify densities an dlift thicknesses during placement and compaction of compacted fill.	X	—
5. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.	—	X

TABLE 1705A.3

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD [a]	IBC REFERENCE
1. Inspect and test reinforcement, ~~including prestressing tendons,~~ and verify placement.			ACI 318: Ch. 20, 25.2, 25.3, 25.5.1, 26.6.1–26.6.3, 26.13.1, 26.13.3.2, 26.13.3.3	1705A.3.9, 1908A.1, 1910A.2, 1910A.3; [DSA–SS/CC] 1909.2.4, 1909.2.5, 1909.4.1
a. ~~Reinforcement in special moment frames, boundary elements of special structural walls and coupling beams.~~	X	—		
b. All other reinforcement	—	X		
2. Reinforcing bar welding:				
a. Verify weldability of reinforcing bars other than ASTM A706;	—	X	AWS D1.4	1705A.3.1 1903A.8
b. Inspect single–pass fillet welds, maximum $^5/_{16}$", not defined in 2.d or 2.e.	—	X		
c. Inspect all other welds.	X	—		
d. Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements and coupling beams of special structural walls of concrete and shear reinforcement.	X	—	ACI 318: 18.2.8, 25.5.2, 26.6.4, 26.13.1.4, 26.13.3.2, 26.13.3.3	
e. Shear reinforcement.	X	—		
3. Inspect anchors cast in concrete	—	X	ACI 318: 17.8.2, 26.7.2, 26.8.2, 26.13.1, 26.13.3.3	—
4. Inspection and test anchors post–installed in hardened concrete members.[b]				
a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	X	—	ACI 318: 17.8.2.4 26.7.2, 26.13.1, 26.13.3.2	1705A.3.8, 1910A.5, [DSA–SS/CC] 1909.2.7
b. Mechanical anchors and adhesive anchors not defined in 4.a.	—	X	ACI 318: 17.8.2, 26.7.2, 26.13.1, 26.13.3.3	1705A.3.8, 1910A.5, [DSA–SS/CC] 1909.2.7
5. Verify use of required design mix.	X	—	ACI 318: Ch. 19, 26.4, 26.13.3.2	1903A.5, 1903A.6, 1903A.7 1904A.1, 1904A.2, 1910A.1 [OSHPD 1 & 4] 1908A.1 [DSA–SS/CC] 1909.2.1 1909.2.2, 1909.2.3
6. Prior and during to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	—	ASTM C31 ASTM C172, ACI 318: 26.4, 26.5, 26.12	1705A.3.5, 1705A.3.6 1705A.3.9, 1905A.1.17, [DSA–SS/CC] 1909.3.9
7. Inspect concrete ~~and shotcrete~~ placement for proper application techniques.	X	—	ACI 318: 26.5, 26.13 ACI 506: 3.4	1705A.3.9, 1905A.1.15, 1905A.1.16, [DSA–SS/CC] 1909.3.7, 1909.3.8
8. Verify maintenance of specified curing temperature and techniques.	—	X	ACI 318: 26.5.3–26.5.5, 26.13.3.3	—
9. Inspect prestressed concrete for:				1705A.3.4
a. Application of prestressing forces; and	X	—	ACI 318: 26.10.2, 26.13.1, 26.13.3.2	
b. Grouting of bonded prestressing tendons	X	—		
10. Inspect erection of precast concrete members.	—	X	ACI 318: 26.9, 26.13.1, 26.13.3.3	—
11. For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category D, E, or F, inspect such connections and reinforcement in the field for:			ACI 318: 26.13.1.3	—
a. Installation of the embeded parts.	X	—	ACI 550.5	
b. Completion of the continuity of reinforcement across joints.	X	—		
c. Completion of connections in the field.	X	—		
12. Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 505.5	—	X	ACI 318: 26.13.1.3	—
13. Verify in–situ concrete strength, prior to stressing of tendons in post–tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	—	X	ACI 318: 26.10.2, 26.11.2, 26.13.3.3	—
14. Inspect formwork for shape, location and dimensions of the concrete member being formed.	—	X	ACI 318: 26.11.1.2(b), 26.13.3.3	1908A.3, DSA–SS/CC] 1909.4.3

For SI: 1 inch=25.4 mm.

a. Where applicable, see also Section 1705.13, Special inspection for seismic resistance.

b. Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with 17.8.2 in ACI 318, or other qualification procedures. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the building official prior to the commencement of the work.

c. Installation of all adhesive anchors in horizontal and upwardly inclined positions shall be performed by an ACI/CRSI certified adhesive anchor installer, except where the factored design tension on the anchor is less than 100 lbs and those anchors are clearly noted on the approved construction documents or where the anchors are shear dowels across cold joints in slabs on grade where the slab is not part of the lateral force–resisting system.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125456 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026

SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT
SAN LUIS OBISPO HIGH SCHOOL
1499 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401
NEW CLASSROOM BUILDING

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELLAGA STREET SANTA BARBARA CA 93101
TELEPHONE (805) 963-1726 FAX (805) 963-2951
JOE S. WILCOX AIA
PRINCIPAL-IN-CHARGE
MAT GRADIAS, AIA
PROJECT ARCHITECT

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ARCHITECT'S STAMP & SIGNATURE

LICENSED ARCHITECT JOE S. WILCOX No. C-19908 Ren. 2/27 STATE OF CALIFORNIA

ENGINEER'S STAMP & SIGNATURE

REGISTERED PROFESSIONAL ENGINEER GREGORY H. STORK No. 4981 CIVIL STATE OF CALIFORNIA

CONSULTANT INFORMATION

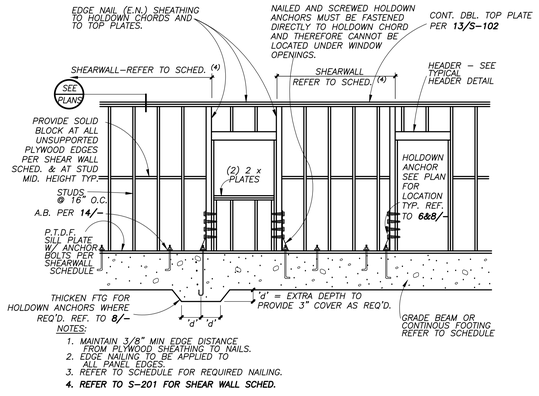
Stork, Wolfe, & Associates
SWA Structural Engineers
555 Chorro St., Ste. A1 San Luis Obispo, CA 93405
Tel. (805) 548-8600 Fax (805) 548-8601

REVISION	DESCRIPTION	DATE	BY
5	-	–/–/–	XX
4	-	–/–/–	XX
3	-	–/–/–	XX
2	-	–/–/–	XX
1	-	–/–/–	XX

DRAWN VB
CHECKED GHS
DATE 06/01/26
JOB. NO. SWA 24066

SHEET TITLE SPECIAL INSPECTIONS

SHEET S-002



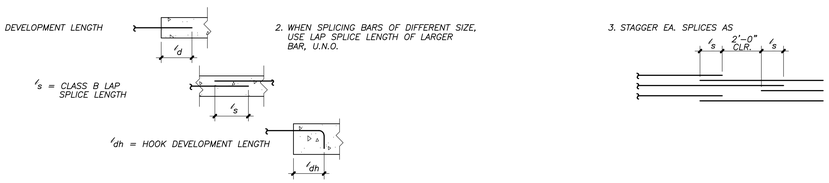
NOTES:
1. MAINTAIN 3/8" MIN EDGE DISTANCE FROM PLYWOOD SHEATHING TO NAILS.
2. EDGE NAILING TO BE APPLIED TO ALL PANEL EDGES.
3. REFER TO SCHEDULE FOR REQUIRED NAILING.
4. **REFER TO S-201 FOR SHEAR WALL SCHED.**

TYPICAL STUD & SHEAR WALL
NO SCALE

13

CONCRETE REINFORCING DEVELOPMENT & SPLICE LENGTHS (IN INCHES) - PER ACI 318-19																							
BAR LOCATION	CONCRETE		BAR SIZE																				
	TYPE	STRENGTH	#3			#4			#5			#6			#7			#8					
			l_d	l_s	l_{dh}	l_d	l_s	l_{dh}	l_d	l_s	l_{dh}	l_d	l_s	l_{dh}	l_d	l_s	l_{dh}	l_d	l_s	l_{dh}	l_d	l_s	l_{dh}
FOOTING BOTTOM REINF., SLAB-ON-GRADE REINF.	NORMAL	f'c = 3ksi	17	22	9	22	29	11	28	36	14	33	43	17	45	62	20	55	72	22			
FOOTING TOP REINF. STEM	NORMAL	f'c = 3ksi	22	28	9	29	38	11	36	47	14	43	56	17	63	81	20	72	93	22			

NOTES:
1. l_d = DEVELOPMENT LENGTH
2. WHEN SPLICING BARS OF DIFFERENT SIZE, USE LAP SPLICE LENGTH OF LARGER BAR, U.N.O.
3. STAGGER EA. SPLICES AS

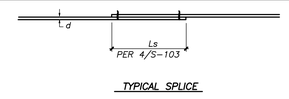


REINFORCING DEVELOPMENT & SPLICE LENGTHS
Scale: N.T.S.

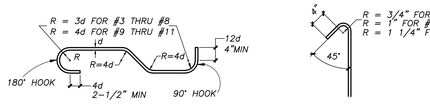
5

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1

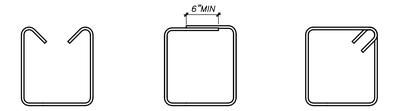


TYPICAL SPLICE



STANDARD HOOKS & BENDS

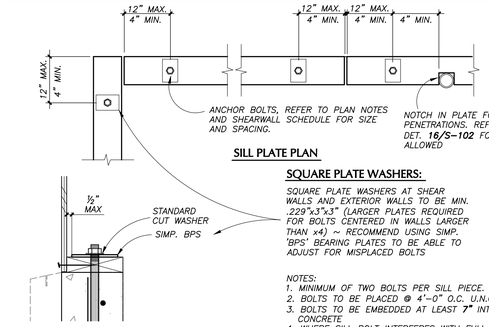
TYPICAL STIRRUP & TIE BEND



OPEN STIRRUP | CLOSED STIRRUP | COLUMN TIE

REINFORCING DETAILS
Scale: N.T.S.

2



SILL PLATE PLAN

TYPICAL BPS INSTALLED AS A SHEAR ANCHOR

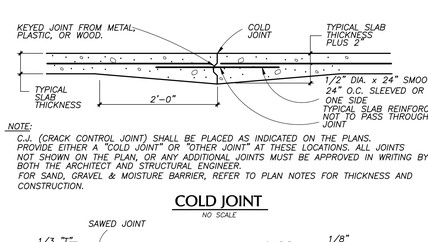
SQUARE PLATE WASHERS:

SQUARE PLATE WASHERS AT SHEAR WALLS AND EXTERIOR WALLS TO BE MIN. .229"x3"x3" (LARGER PLATES REQUIRED FOR BOLTS CENTERED IN WALLS LARGER THAN x4) ~ RECOMMEND USING SIMP. 'BPS' BEARING PLATES TO BE ABLE TO ADJUST FOR MISPLACED BOLTS

NOTES:
1. MINIMUM OF TWO BOLTS PER SILL PIECE.
2. BOLTS TO BE PLACED @ 4'-0" O.C. U.N.O.
3. BOLTS TO BE EMBEDDED AT LEAST **7"** INTO CONCRETE
4. WHERE SILL BOLT INTERFERES WITH FULL BEARING FOR A POST OR HOLDOWN CHORD A SIMP. MASA MAY BE SUBSTITUTED FOR THAT BOLT ONLY

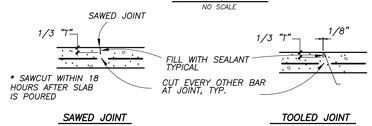
PLACING AND FRAMING AT ANCHOR BOLTS
NO SCALE

14



NOTE:
C.J. (CRACK CONTROL JOINT) SHALL BE PLACED AS INDICATED ON THE PLANS. PROVIDE EITHER A "COLD JOINT" OR "OTHER JOINT" AT THESE LOCATIONS. ALL JOINTS NOT SHOWN ON THE PLAN, OR ANY ADDITIONAL JOINTS MUST BE APPROVED IN WRITING BY BOTH THE ARCHITECT AND STRUCTURAL ENGINEER.
FOR SAND, GRAVEL & MOISTURE BARRIER, REFER TO PLAN NOTES FOR THICKNESS AND CONSTRUCTION.

COLD JOINT
NO SCALE



SAWED JOINT | TOOLED JOINT

OTHER JOINTS
NO SCALE

CRACK CONTROL JOINTS

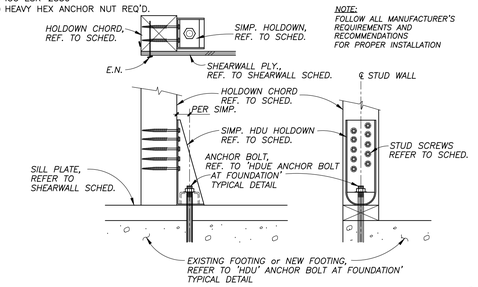
10

HOLDOWN (1)	ANCHOR ø	FASTENERS	MIN. HOLDOWN CHORD
HDUE3-SDS3	5/8"	(7) ¼x3 SDS	4x6
HDUE13-SDS3.5 (2)	1"	(23) ¼x3½ SDS	6x6

(1) ICC ESR-2330
(2) HEAVY HEX ANCHOR NUT REQ'D.

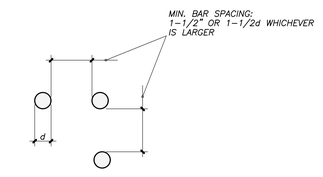
RE-TIGHTEN HOLDOWN BOLTS PRIOR TO COVERING WITH FINISH MATERIALS

NOTE:
FOLLOW ALL MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS FOR PROPER INSTALLATION

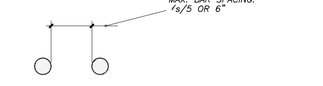


TYPICAL HDUE HOLDOWNS

6



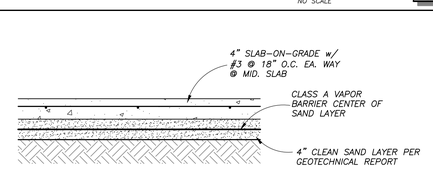
A BAR SPACING FOR NON-SPLICED BARS



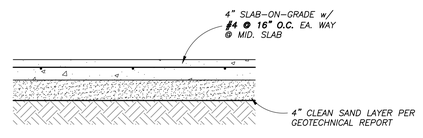
B BAR SPACING FOR BARS SPLICED WITH A NON-CONTACT LAP

BAR SPACING IN CONCRETE
NO SCALE

3

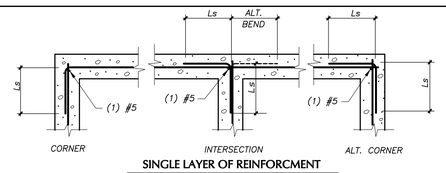


TYPICAL INTERIOR SLAB
NO SCALE



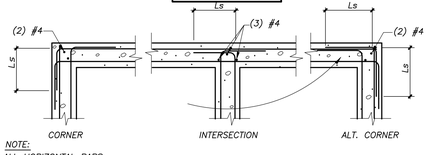
TYPICAL EXT. SLAB / RAMP
NO SCALE

15



SINGLE LAYER OF REINFORCMENT

Ls PER DETAIL 5/-



NOTE:
ALL HORIZONTAL BARS IN FOOTINGS, GRADE BMS. & BOND BMS. SHALL BE CONT. AROUND CORNERS & INTERSECTIONS.

DOUBLE LAYER OF REINFORCMENT

Ls PER DETAIL 5/-

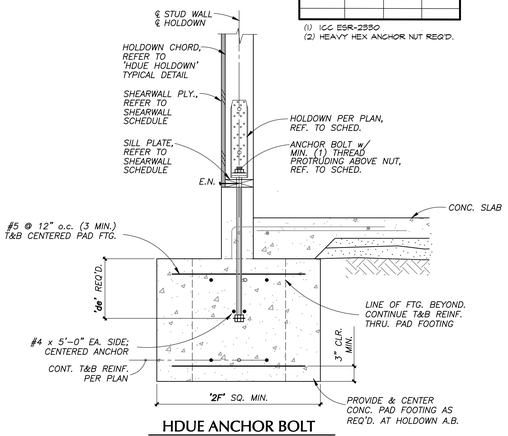
TYPICAL MINIMUM REINFORCING AT CORNERS & INTERSECTIONS
NO SCALE

11

RE-TIGHTEN HOLDOWN BOLTS PRIOR TO COVERING WITH FINISH MATERIALS

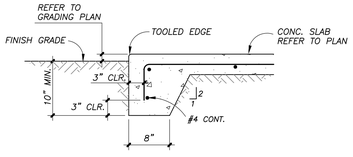
HOLD DOWN (1)	HD BOLT	de REQ'D	2F REQ'D
HDUE3	PAB5	6 1/2"	20"
HDUE13(2)	PAB8	11"	32"

(1) ICC ESR-2330
(2) HEAVY HEX ANCHOR NUT REQ'D.



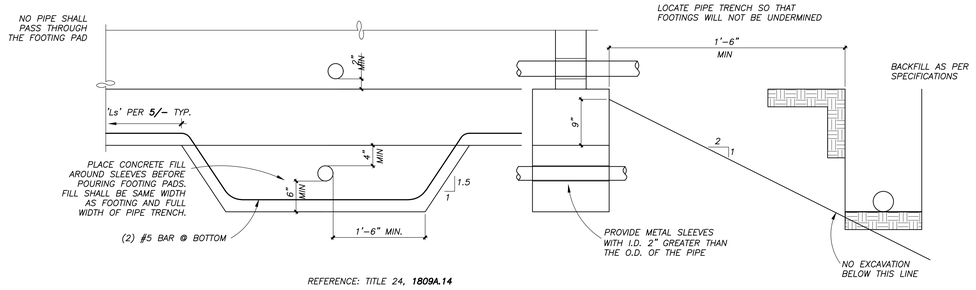
HDUE ANCHOR BOLT

8



TYPICAL EDGE OF EXTERIOR SLAB
Scale: N.T.S.

4



REFERENCE: TITLE 24, **1809A.14**

TYPICAL PIPE TRENCH OR DUCT BANK AND FOOTING DETAIL

12

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125456 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026

SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT
SAN LUIS OBISPO HIGH SCHOOL
1499 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401
NEW CLASSROOM BUILDING

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
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TELEPHONE (805) 963-1726 FAX (805) 963-2951
JOE S. WILCOX AIA
PRINCIPAL-IN-CHARGE
MAT GRADIAS, AIA
PROJECT ARCHITECT

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ARCHITECT'S STAMP & SIGNATURE
LICENSED ARCHITECT JOE S. WILCOX No. C-9808 Ren. 8/27 STATE OF CALIFORNIA

ENGINEERS STAMP & SIGNATURE
REGISTERED PROFESSIONAL ENGINEER RICHARD K. STORK No. 4981 CIVIL STATE OF CALIFORNIA

CONSULTANT INFORMATION

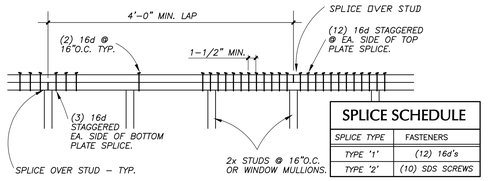
Stork, Wolfe, & Associates
Structural Engineers
555 Cherro St., Ste. A1 San Luis Obispo, CA 93405
Tel. (805) 548-8600 Fax (805) 548-8601

REVISION	DESCRIPTION	DATE	BY
5	-	-/-/-	XX
4	-	-/-/-	XX
3	-	-/-/-	XX
2	-	-/-/-	XX
1	-	-/-/-	XX

DRAWN VB
CHECKED GHS
DATE 06/01/26
JOB. NO. SWA 24066

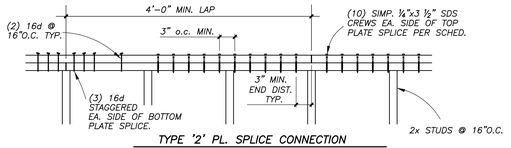
SHEET TITLE TYPICAL DETAILS

SHEET S-101



SPLICE SCHEDULE	
SPLICE TYPE	FASTENERS
TYPE '1'	(12) 16d's
TYPE '2'	(10) SDS SCREWS

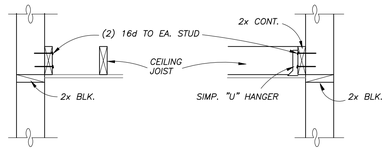
TYPE '1': TYP. NAILED SPLICE (APPLIES WHEN NO OTHER SPLICE INDICATED)



TYPE '2' PL. SPLICE CONNECTION

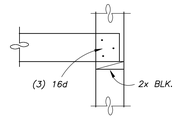
TYPICAL PLATE SPLICE

13



AT STUD WALL

CEILING JOIST SCHEDULE (UNLESS NOTED OTHERWISE ON DWGS)		
SPAN	SIZE	SPACING
0'-1" to 8'-11"	2x6	16"O.C.

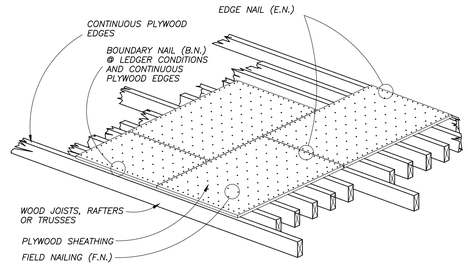


OPTIONAL AT STUD WALL

TYPICAL CEILING JOIST NON-ACCESSIBLE

Scale: N.T.S.

9



NOTE:
PROVIDE ONE PLYCLIP BETWEEN EACH JOIST, RAFTER OR TRUSS @ ALL UNBLOCKED EDGES, UNLESS USING T&G PLYWOOD SHEATHING

TYPICAL PLYWOOD LAY OUT & NAILING

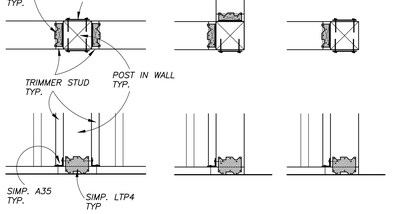
NO SCALE

5

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1

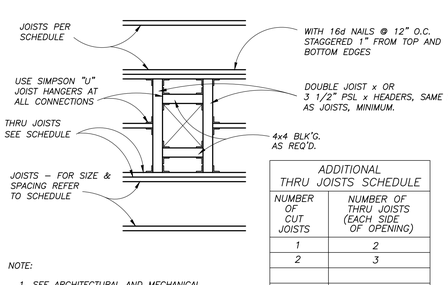
14



STUD WALL AT INTERSECTIONS AND CORNERS

NO SCALE

10

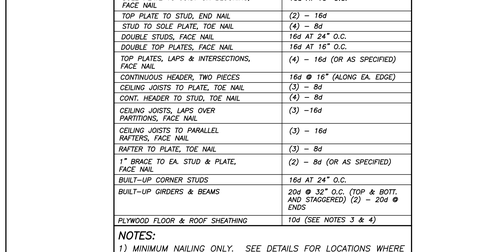


NON-BEARING STUD WALL TOP CONNECTION @ ROOF

NO SCALE

6

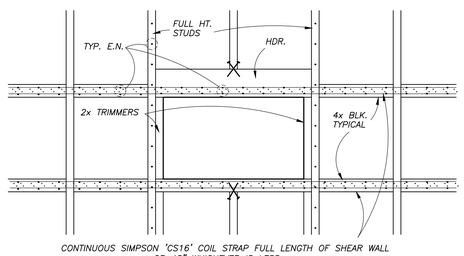
HEADER SCHEDULE	
SPAN	HEADER d (NOMINAL)
TO – 4'-11"	WIDTH OF STUD x 6



TYPICAL MINIMUM HEADERS FOR INTERIOR NON-BEARING WALLS

Scale: N.T.S.

2

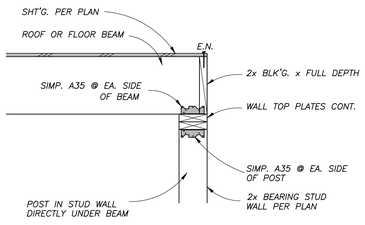


CONTINUOUS SIMPSON 'CS16' COIL STRAP FULL LENGTH OF SHEAR WALL OR 48" WHICHEVER IS LESS

PLACE COIL STRAPS OVER PLYWOOD & SHEAR WALL E.N.

TYPICAL OPENING IN SHEAR WALL

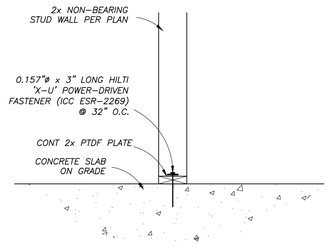
15



TYPICAL BEAM TO POST CONNECTION AT BEARING WALL

APPLIES ONLY WHERE NO OTHER CONNECTIONS ARE CALLED FOR ON PLAN

11

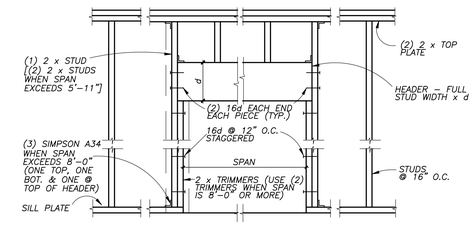


NON-BEARING STUD WALL TO CONCRETE CONNECTION

Scale: N.T.S.

7

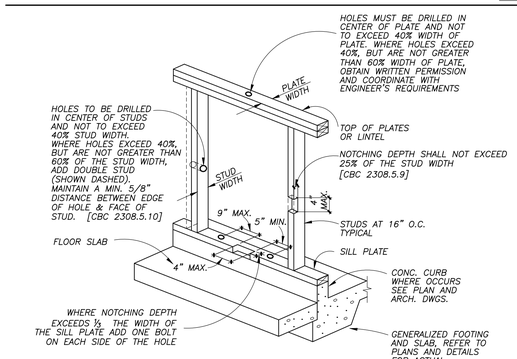
HEADER SCHEDULE	
SPAN	HEADER d (NOMINAL)
TO – 3'-11"	WIDTH OF STUD x 6
4'-0" – 5'-11"	WIDTH OF STUD x 6
6'-0" – 7'-11"	WIDTH OF STUD x 8
8'-0" – 10'-6"	WIDTH OF STUD x 10
FOR SPANS GREATER THAN 10'-6" HEADER SHALL BE AS DIRECTED BY STRUCTURAL ENGINEER.	



MINIMUM HEADERS FOR EXTERIOR & BEARING WALLS

NO SCALE

3



TYPICAL HOLES AND NOTCHES IN EXTERIOR & INTERIOR BEARING STUD WALLS/ SHEAR WALLS

Scale: N.T.S.

16

TYPICAL POST IN WALL TO SILL PLATE U.N.O.

12

ADDITIONAL THRU JOISTS SCHEDULE	
NUMBER OF CUT JOISTS	NUMBER OF THRU JOISTS (EACH SIDE OF OPENING)
1	2
2	3

NOTE:
1. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATION AND SIZE OF OPENINGS.

TYPICAL WOOD FRAMING @ ROOF OPENING

NO SCALE

8

NAILING SCHEDULE (1)	
CONNECTION	NAILING (2)
JOIST TO SILL OR GIRDER, TOE NAIL	(3) – 8d
BLOCKING TO JOIST, EACH END	(2) – 16d
SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16d AT 16" O.C.
TOP PLATE TO STUD, END NAIL	(2) – 16d
STUD TO SOLE PLATE, TOE NAIL	(4) – 8d
DOUBLE STUDS, FACE NAIL	16d AT 24" O.C.
DOUBLE TOP PLATES, FACE NAIL	16d AT 16" O.C.
TOP PLATES, LAPS & INTERSECTIONS, FACE NAIL	(4) – 16d (OR AS SPECIFIED)
CONTINUOUS HEADER, TWO PIECES	16d @ 16" (ALONG EA. EDGE)
CEILING JOISTS TO PLATE, TOE NAIL	(3) – 8d
CONT. HEADER TO STUD, TOE NAIL	(4) – 8d
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	(3) –16d
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	(3) – 16d
RAFTER TO PLATE, TOE NAIL	(3) – 8d
1" BRACE TO EA. STUD & PLATE, FACE NAIL	(2) – 8d (OR AS SPECIFIED)
BUILT-UP CORNER STUDS	16d AT 24" O.C.
BUILT-UP GIRDERS & BEAMS	20d @ 32" O.C. (TOP & BOTT. AND STAGGERED) (2) – 20d @ ENDS
PLYWOOD FLOOR & ROOF SHEATHING	10d (SEE NOTES 3 & 4)

NOTES:
1) MINIMUM NAILING ONLY. SEE DETAILS FOR LOCATIONS WHERE OTHER NAILING IS SPECIFIED.
2) COMMON NAILS TO BE USED THROUGHOUT U.N.O.
3) COMMON OR PLYWOOD NAILS.
4) NAILS SPACED AT 6"O.C. AT EDGES, 12"O.C. AT INTERMEDIATE SUPPORTS (10"O.C. AT INTERMEDIATE SUPPORTS FOR FLOORS).

4

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DATE: 07/01/2026

SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT
SAN LUIS OBISPO HIGH SCHOOL
1499 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401
NEW CLASSROOM BUILDING

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELLAGA STREET SANTA BARBARA CA 93101
TELEPHONE (805) 963-1726 FAX (805) 963-2951
JOE S. WILCOX AIA
PRINCIPAL-IN-CHARGE
MAT GRADIAS, AIA
PROJECT ARCHITECT

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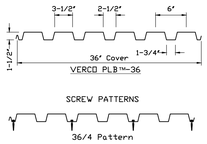
ARCHITECT'S STAMP & SIGNATURE
JOE S. WILCOX — REGISTERED ARCHITECT — No. 9808 Ren. 8/27 — STATE OF CALIFORNIA
ENGINEERS STAMP & SIGNATURE
REGISTERED PROFESSIONAL ENGINEER — No. 49811 — STATE OF CALIFORNIA
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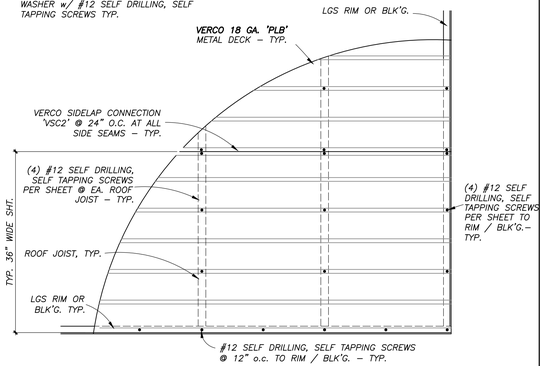
DRAWN VB
CHECKED GHS
DATE 06/01/26
JOB. NO. SWA 24066
SHEET TITLE TYPICAL DETAILS
SHEET S-102

VERCO PLB-36 SECTION PROPERTIES (IAPMO ER 20161) CR. 50: Fy = 50 ksi, Fu = 65 ksi							
DECK TYPE	BASE METAL THICKNESS (inch)	WEIGHT (psf)	AREA (inch² / foot)	Moment of Inertia I (inch⁴/ foot)		Section. of Modulus S (inch³/ foot)	
				Positive, I_{pr}	Negative, I_{nr}	Positive, S_{pr}	Negative, S_{nr}
PLB-36 – 18	0.0478	2.9	0.807	0.302	0.306	0.322	0.490

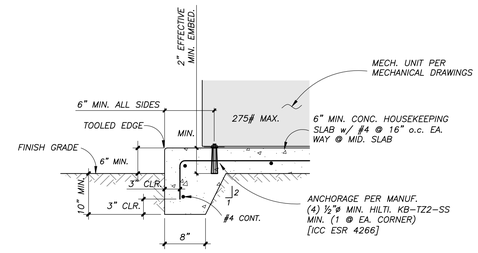


SELF-DRILLING, TAPPING SCREW TABLE	
SUPPORT THICKNESS	*FASTENER DESIGNATION*
33 mil (0.0346") – 3/16"	*#3 DRILL POINT*
1/8" – 1/4"	*#4 DRILL POINT*
1/8" – 1/2"	*#5 DRILL POINT*

NOTE: PROVIDE 5/16"ø MIN. x 0.05" THICK WASHER w/ #12 SELF DRILLING, SELF TAPPING SCREWS TYP.

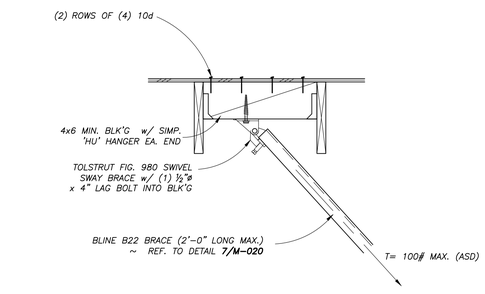


METAL DECK SCREW CONNECTION



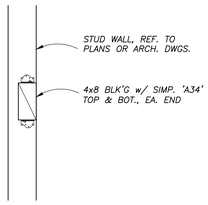
MECH. UNIT TO HOUSE KEEPING PAD ANCHORAGE

Scale: N.T.S.



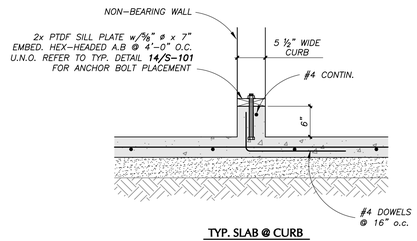
BRACE-TO-BLOCKING CONNECTION

N.T.S.

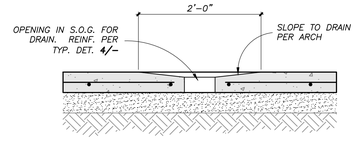


TYP. WOOD BACKING IN STUD WALL

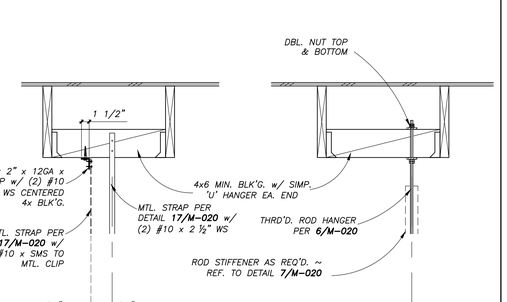
Scale: N.T.S.



TYP. SLAB @ CURB



TYP. SLAB @ DRAIN



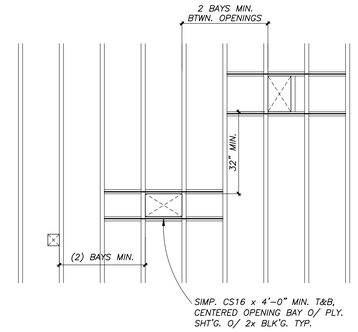
MTL. STRAP

THR'D. ROD

HANGER SUPPORT IN BETWEEN ROOF JOISTS

N.T.S.

The details on this sheet are "typical" details which are to be used by the contractor where these various general conditions exist. These details are not necessarily referenced anywhere else in this set of construction documents. Prior to starting work, the contractor is to confirm with the Engineer that these details are properly interpreted and applied to the appropriate conditions.



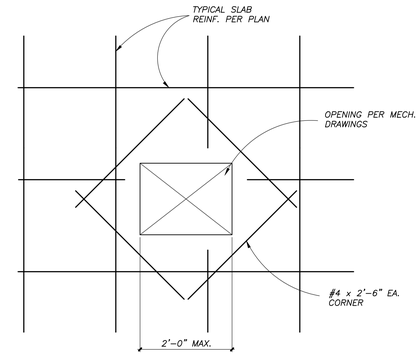
- *HOLES UP TO 4 ½" SQ. DO NOT REQUIRE BLK'G. & E.N.*
- *HOLE FR. 4 ¾" SQ. TO 9"x14" REQUIRE BLK'G. & E.N.*
- *HOLES LARGER THAN 9"x14" ARE NOT ALLOWED*
- *HOLE SIZE INCLUDES THE LENGTH OF THE OVERCUT*
- *MAX. ACCUMULATED LENGTH OF OPENINGS SHALL NOT EXCEED 20% OF WALL LENGTH*
- *RECOMMEND CIRCULAR BORED HOLES OR RADIUS CORNER CUTS*
- *REF. TO SCHED. BELOW FOR MAX. # OF OPENINGS ALLOWED*

TYP. SHEAR WALL PENETRATIONS	
MIN. SHEAR WALL LENGTH	*No. OF OPENINGS ALLOWED (9"x14" MAX.)*
6'–0"	*1*
8'–0"	*2*
12'–0" OR GREATER	*3*

SCHEDULE OF OPENINGS ABOVE IS FOR SHEAR WALL TYPE 'SW1' ONLY. FOR ALL OTHERS, PLEASE PROVIDE APPROXIMATE LOCATIONS AND SIZE OF OPENINGS FOR FURTHER EVALUATION.

TYPICAL PENETRATION ALLOWED IN SHEAR WALL

Scale: N.T.S.



TYP. OPENING IN CONC. SLAB-ON-GRADE

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ARCHITECT'S STAMP & SIGNATURE

LICENSED ARCHITECT JOE S. WILCOX No. C-9808 Ren. 8/27 STATE OF CALIFORNIA

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REGISTERED PROFESSIONAL ENGINEER TIMOTHY K. STORK No. 4981 Ren. 6/27 STATE OF CALIFORNIA CIVIL

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DATE	06/01/26
JOB. NO.	SWA 24066
SHEET TITLE	TYPICAL DETAILS

SHEET
S-103

13 14 15 10 11 12 6 5 4 1 2 3 7 8 9

FOUNDATION PLAN KEYED NOTES:

A. REFER TO GENERAL NOTES SHEET **S-001**.
B. "c.j." INDICATES CONCRETE SLAB CRACK CONTROL JOINT. REFER TO DETAIL **10/S-101**.
C. ALL FOOTINGS ARE CENTERED UNDER COLUMNS AND BEARING WALLS UNLESS NOTED OTHERWISE ON PLANS AND DETAILS.
D. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF ALL WALL OPENINGS, SLOPED AND DEPRESSED SLABS, CONCRETE CURBS, ADDITIONAL EMBEDDED ITEMS NOT SHOWN ON THESE DRAWINGS. VERIFY ALL BUILDING DIMENSIONS. SLOPES AND DEPRESSED SLAB DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE BEGINNING WORK. REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR RESOLUTION.
E. SEE GENERAL NOTES AND SPECIFICATIONS FOR SPECIAL GRADING REQUIREMENTS UNDER FOOTINGS.
F. COLUMNS ARE ONE SIZE FROM FOUNDATION TO ROOF UNLESS OTHERWISE NOTED ON PLANS.
G. ALL EXTERIOR WALL STUDS SHALL BE 2x6 D.F. #2 MIN. @ 16" O.C. UNLESS NOTED OTHERWISE ON PLANS AND DETAILS. INTERIOR WALL STUDS SHALL BE 2x6 D.F. #2 MIN. @ 16" O.C. UNLESS NOTED OTHERWISE ON PLANS AND DETAILS. **VERIFY ALL STUD SIZES WITH ARCH. DWGS.**
H. PRIOR TO THE CONTRACTOR REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, THE SOILS ENGINEER SHALL ADVISE THE BUILDING OFFICIAL IN WRITING THAT:
   a. THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOILS REPORT;
   b. THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED; AND
   c. THE FOUNDATION EXCAVATIONS, FORMING AND REINFORCEMENT COMPLY WITH THE SOILS REPORT AND APPROVED PLAN.
K. ◆ INDICATES APPROXIMATE HOLDOWN LOCATION PER SHEAR WALL SCHEDULE. REFER TO TYPICAL DETAILS FOR INFORMATION ON EXACT LOCATION OF HOLDOWNS WITH RESPECT TO THE WALL CORNERS & JAMBS.
L. ALL DIMENSIONS SHOWN ARE TO EDGE OF CONCRETE SLAB, CENTER OF INTERIOR WALL, OR CENTERLINE OF POST OR COLUMN. REFER TO ARCHITECTURAL PLANS FOR OTHER DIMENSIONS.
M. FLOORS ARE 4" THICK CONCRETE SLAB-ON-GRADE, AND SHALL BE REINFORCED WITH #4 BARS @ 18" O.C. EACH WAY AT MID SLAB U.N.O. ON THE DRAWINGS. REINFORCING SHALL BE SUPPORTED ON MASONRY BLOCKS SPACED A MAXIMUM OF 4'-0" O.C. THE SLAB SHALL BE UNDERLAIN WITH 4" OF CLEAN, WELL-GRADED SAND & CLASS 'A' VAPOR BARRIER IN CENTER OF THE CLEAN SAND LAYER, OVER RECOMPACTED ENGINEERED FILL. REF. TO DETAIL **15/S-101** & SOILS REPORT FOR MORE INFORMATION.
N. THE ENTIRE EXTERIOR OF THE STRUCTURE SHALL BE SHEATED WITH 1/2" STRUCTURAL I EXTERIOR GRADE PLYWOOD. EXCEPT AT SHEAR WALLS, OR UNLESS NOTED OTHERWISE ON THE DRAWINGS:
   E.N. (EDGE NAILING) = 10d @ 6" O.C.
   F.N. (FIELD NAILING) = 10d @ 12" O.C.
O. PLACE (2) #3x5'-0" DIAGONAL BARS AT ALL RE-ENTRANT CORNERS OF SLAB POUR EXCEPT AT THE CRACK CONTROL JOINTS.
P. ALL DIMENSIONS SHOWN ON THESE PLANS REFERENCING THE EXISTING BUILDING SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR FOR ACCURACY.
Q. S——S INDICATES APPROX. LOCATION OF STEP IN BOTTOM OF FOOTING PER **1/S-302** CONTRACTOR TO VERIFY IN FIELD AND COORDINATE WITH ARCH. / CIVIL DRAWINGS
R. REF. TO ARCH. DRAWING, SHEET **A-200** FOR CRACK CONTROL JOINT (C.J.) LAYOUT & DET. **10/S-101**

FOUNDATION PLAN KEYED NOTES:

(1) INT. CONC. SLAB-ON-GRADE PER PLAN NOTE **'M'** ABOVE
(2) 2x6 @ 16" o.c. INT. BEARING WALL
(3) 10" REINF. CONC. WALL PER **7/S-302**
(4) CONC. STAIRS PER **2/S-302**
(5) PLANTER OR LANDSCAPE REMEDIATION. **REF. ARCH. & CIVIL DRAWINGS FOR DRAINAGE.**
(6) CONC. RAMP SLAB PER **15/S-101**. REF. TO **7/A-105** FOR MORE INFO.
(7) CONC. BENCH. REF. TO **4/A-105**
(8) CONC. BENCH. REF. TO **11/A-105**
(9) DEPRESSED PER ARCH.
(10) SECURITY GATE / FENCE PER ARCH. REF. TO **1/A-106**
(11) STORM DRAIN PER CIVIL DRAWINGS
(12) SLOPE TO DRAIN PER **6/S-103**
(13) INSTALL SHEAR WALL STH'G. PRIOR TO PERPENDICULAR WALL FRAMING
(14) CONDENSING UNIT. **(275# MAX.)** ON HOUSEKEEPING PAD PER **11/S-103**. REF. TO MECH. DRAWINGS FOR MORE INFO. & LOCATIONS
(15) **(3) CONT. #5 T&B** ARE REQ'D. AT FOOTING ALONG **GRIDLINE 2**

Wood Posts 1,2

MARK	Size
46	4x6
66	6x6
[I]	2x TRIMMER w/ 2x KING STUD (3)
[II]	4x TRIMMER w/ (2)2x KING STUD (3)
[K]	2x TRIMMER w/ 6x KING POST (3)
[K-K]	4x TRIMMER w/ 6x KING POST (4)

1. ORIENT POST FOR FULL BEAM WIDTH BEARING
2. U.N.O. ATTACH POST TO SILL PLATE PER DETAIL **12/S-102.**
3. SISTER MULTI 2x w/ 16d @ 12" o.c. TYP.
4. SISTER 4x TO 6x w/ SDS x 6" @ 12" o.c. TYP.

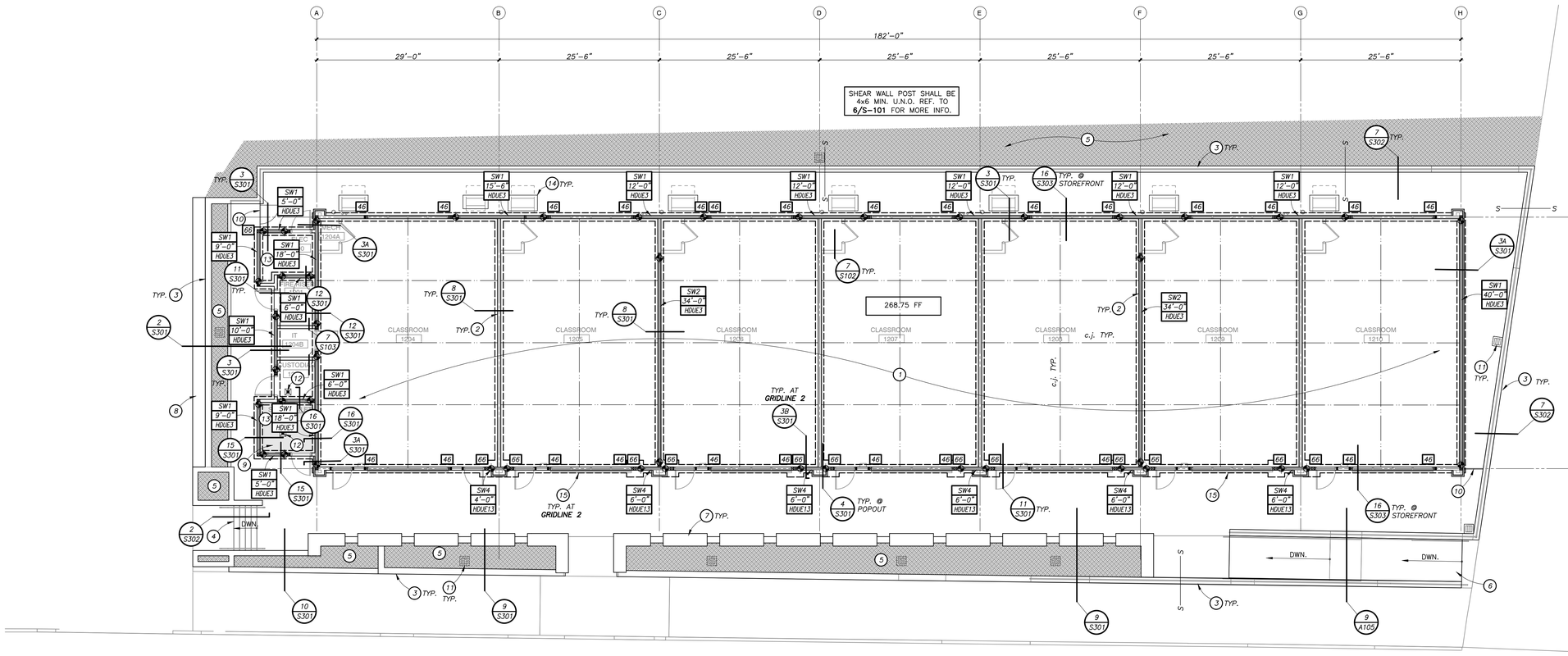
Shear Wall Schedule (SW)

MARK	Sheathing Material	Edge Nailing	A35 CLIP TO TOP PL.	Anchorage to (E) Concrete	Note	Capacity
SW1	1/2" STRUCT. 1 PLY	10d @ 6" o.c.	A35 @ 24" o.c.	5/8" A.B. @ 4'-0" o.c.	1-10	260 plf
SW2	1/2" STRUCT. 1 PLY	10d @ 4" o.c.	A35 @ 16" o.c.	5/8" A.B. @ 2-8" o.c.	1-12	390 plf
SW4	1/2" STRUCT. 1 PLY	10d @ 2" o.c.	A35 @ 12" o.c.	5/8" A.B. @ 1-4" o.c.	1-12	780 plf

Shear Wall Schedule Notes :

1. All shear wall sheathing shall be A.P.A. rated plywood sheathing, Structural 1, exposure 1.
2. Field nailing shall be 10d's @ 12" o.c. unless noted otherwise.
3. All panel edges shall be solid blocked with 2x framing member, EXCEPT use 3x member for nail spacings of 4" o.c. or less.
4. All nails referred shall be Common.
5. Holdowns as shown on the plan are by "Simpson" **(ICC ESR-2330).** Refer to Typical Details for end studs and anchor installation guidelines.
6. Provide 1/8" gap between plywood panel edges.
7. Provide 3/8" from center line of nails to edge of stud, plate, and blocking.
8. ◆ Indicates approximate locatoin of holdowns or straps. Refer to detail **8/S-101** for concrete anchorage. Refer to detail **6/S-101** for min. chord requirements for holdowns.
9. Framing at adjoining panel edges shall be 3" nominal and nails shall be staggered where nail spacing is 4" o.c. or less.
10. Foundation sill plate anchor bolts shall have steel plate washers under each nut not less than .229"x3"x3" in size. edge of the washer shall be within ½" from the sheathed side of the shear wall.
11. 3x sill plate required full length of shear wall.
12. SPECIAL INSPECTION REQUIRED.

Shaded region indicates shear wall
SW1 — Indicates shearwall type designation per schedule
7'-0" — Indicates minimum shearwall length
HDU2 — Indicates strap or holdown each end of shear wall
Arrow indicates anticipated side of wall to shear



FOUNDATION PLAN

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

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MAT GRADIAS, AIA
PROJECT ARCHITECT

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ARCHITECT'S STAMP & SIGNATURE
LICENSED ARCHITECT JOSEPH S. WILCOX No. C-18808 Ren. 2/27 STATE OF CALIFORNIA
ENGINEER'S STAMP & SIGNATURE
REGISTERED PROFESSIONAL ENGINEER TIMOTHY R. STORK No. 4981 CIVIL STRUCTURAL STATE OF CALIFORNIA
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REVISION	DESCRIPTION	DATE	BY
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3	-	-/-/-	XX
2	-	-/-/-	XX
1	-	-/-/-	XX

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DATE 06/01/26
JOB. NO. SWA 24066

SHEET TITLE FOUNDATION PLAN

SHEET S-201

ROOF FRAMING PLAN NOTES:

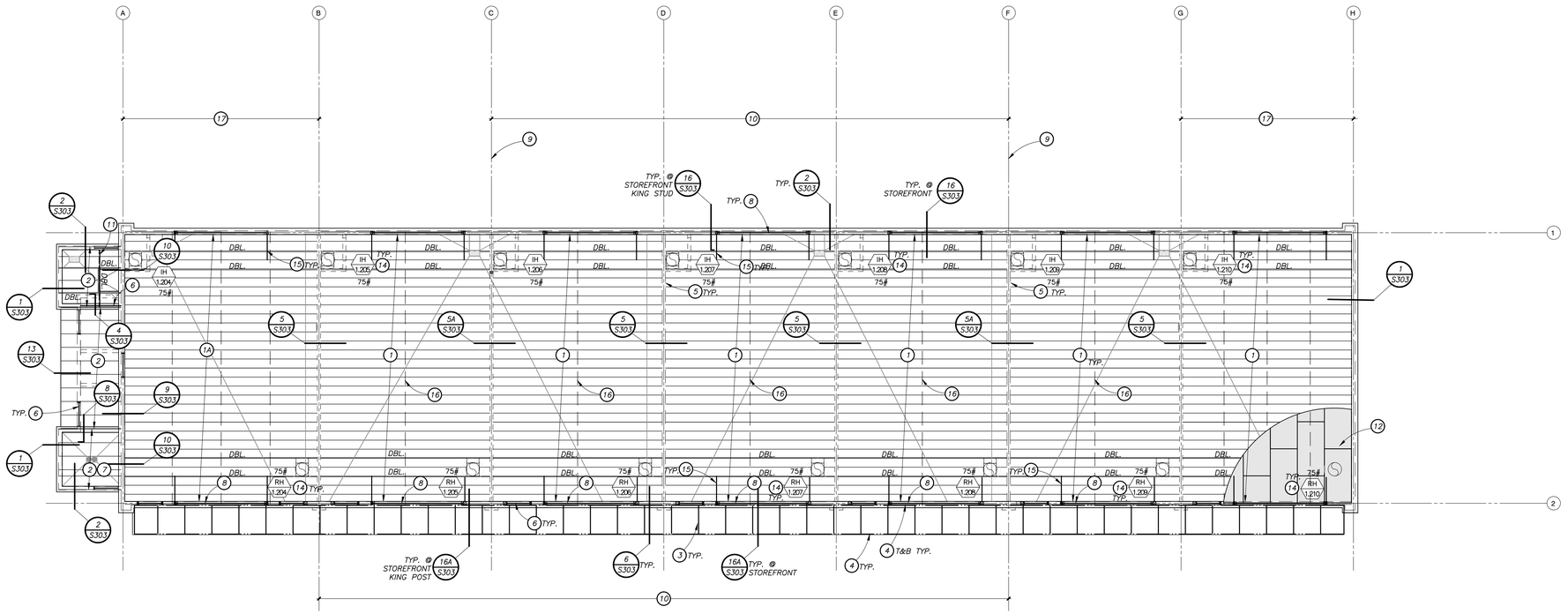
A. REFER TO GENERAL NOTES SHEET **S-001**.
B. ROOF SHEATHING SHALL BE 5/8" PLYWOOD WITH A PANEL IDENTIFICATION INDEX OF 32/16. PLACE FACE GRAIN PERPENDICULAR TO SUPPORTS. PROVIDE ONE PLYCLIP BETWEEN EACH JOIST AT ALL UNBLOCKED EDGES OF PLYWOOD SHEATHING OR USE T&G PLYWOOD. UNLESS NOTED OTHERWISE ON THE DRAWINGS:
   E.N./B.N. (EDGE / BOUNDARY NAILING) = 10d @ 6" O.C.
   F.N. (FIELD NAILING) = 10d @ 12" O.C.
   ALL NAILS SHALL BE COMMON.
C. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF SKYLIGHTS AND ROOF HATCHES.
D. SEE MECHANICAL DRAWINGS FOR LOCATIONS OF EQUIPMENT AND ROOF OPENINGS FOR DUCTS.
E. UNLESS SPECIFICALLY NOTED ON THE PLANS, FRAMING SHALL NOT BE CUT OR RELOCATED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
F. ROOF LOADS:
   DEAD LOAD = **18** psf
   LIVE LOAD = **20** psf
G. DO NOT OVER CUT AT NOTCHES IN FRAMING.
H. FINAL LOCATION AND WEIGHTS OF MECHANICAL UNITS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO THE PREPARATION OF ROOF FRAMING SHOP DRAWINGS.
I. WHERE ROOF PITCH CREATES LOW SPOTS THAT WILL NOT PROPERLY DRAIN, PROVIDE CRICKETS TO ENSURE ADEQUATE ROOF DRAINAGE.
K. REFER TO ARCHITECTURAL DRAWINGS FOR TOP OF PLYWOOD ELEVATIONS, LOCATIONS OF RECESSED DRAIN PANS, HATCHES AND OTHER MISCELLANEOUS ITEMS. COORDINATE WITH FRAMING.
L. PROVIDE TOP PLATE SPLICE **TYPE '1'** PER TYP. DET. **13/S-102** AT EXT. WALLS & INT. SHEAR WALLS U.N.O.

AWNING FRAMING PLAN NOTES:

A. REFER TO GENERAL NOTES SHEET **S-001**.
B. ROOF METAL DECK TO BE VERCO 'PLB-36' **18** GA. GALV. w/ 4 - #12 SELF DRILLING, SELF TAPPING SCREW PER PANEL (36/4 PATTERN) & SIDELAPS (VSC2) PUNCHLOK @ 24"o.c. REF. TO TYP. DET. **10/S-103**
C. ROOF DESIGN LOADS:
   DEAD LOAD = 10 psf
   LIVE LOAD = 20 psf
D. AWNING NET WIND LOAD (LRFD) = +16.18 psf
   -16.18 psf (NON CONCURRENT w/ POSITIVE WIND)
E. REFER TO ARCHITECTURAL DRAWINGS FOR TOP OF STEEL BEAMS, LOCATIONS OF RECESSED DRAIN PANS, HATCHES AND OTHER MISCELLANEOUS ITEMS. COORDINATE WITH FRAMING.

KEYED NOTES:

1. 1 ¾" x 14" LVL @ 24" o.c. ROOF JOISTS (@ 16" o.c. AT **1A**)
2. 2x8 MIN. @ 24" o.c. MAX. ROOF JOISTS
3. AWNING TRIANGLE FRAMING @ 4'-0" o.c. MAX. PER DETAIL **12/S-303**
4. HSS2x2x⅛ BLK'G. REF. TO DETAIL **12/S-303**
5. INT. BEARING / SHEAR WALL BLW.
6. HEADER PER TYP. DETAIL **3/S-102**
7. CEILING JOIST BELOW. REF. TO TYP. DETAIL **9/S-102**
8. 6x12 MIN. HEADER TYP.
9. PROVIDE (2) ROWS OF ROOF E.N. AT INT. SHEAR WALL LINES TYP.
10. PROVIDE TOP PLATE SPLICE **TYPE '2'** PER TYP. DET. **13/S-102**
11. SIMP. CS16 x 8'-0" OVER PLY. SHT'G. OVER 2x BLK'G.
12. ROOF PLY STH'G. PER ROOF FRAMING PLAN NOTE B. REF. TO TYP. DET. **6/S-102** FOR LAYOUT
13. NOT USED
14. RELIEF OR INTAKE HOOD PER MECH. DRAWINGS. REF. TO DET. **12/M-020**. REF. TO DET. **8/S-102** TYP. FOR HEADOUT FRAMING AT OPENING THRU. ROOF AS REQ'D.
15. 3 ½" x 14" PSL BLK'G. (2 BAYS MIN.) CENTERED 2-2x OR 6x KING POST w/ SIMP. 'ST12' AT BOTT. CENTERED ROOF JOIST AS INDICATED ON PLAN
16. PROVIDE 1 ¾" x 14" LVL BLK'G. @ ROOF JOIST **MID.** SPAN w/ (3) 16d TOE NAILS EA. END, TYP.
17. PROVIDE 1 ¾" x 14" LVL BLK'G. @ ROOF JOIST **¼** POINTS w/ (3) 16d TOE NAILS EA. END, TYP.



ROOF FRAMING PLAN

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

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APP: 03-125456 INC:
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SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT
SAN LUIS OBISPO HIGH SCHOOL
1499 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401
NEW CLASSROOM BUILDING

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELLAGA STREET SANTA BARBARA CA 93101
TELEPHONE (805) 963-1726 FAX (805) 963-2951

JOE S. WILCOX AIA
PRINCIPAL-IN-CHARGE

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ARCHITECT'S STAMP & SIGNATURE

REGISTERED ARCHITECT ROBERT S. WILCOX No. C-14608 Ren. 8/27 STATE OF CALIFORNIA

ENGINEER'S STAMP & SIGNATURE

REGISTERED PROFESSIONAL ENGINEER GARY R. STORK No. 4981 CIVIL STATE OF CALIFORNIA

CONSULTANT INFORMATION

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SHEET TITLE ROOF FRAMING PLAN

SHEET S-202

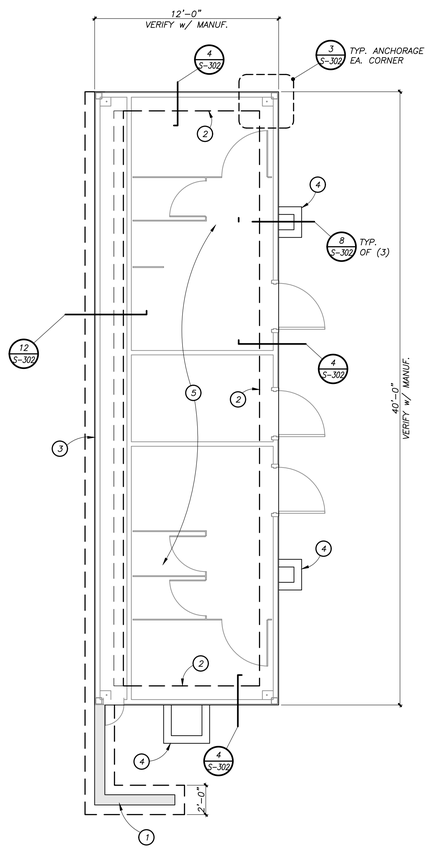
FOUNDATION PLAN NOTES:

A. REFER TO GENERAL NOTES SHEET **S-001**.
B. PRIOR TO THE CONTRACTOR REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, THE SOILS ENGINEER SHALL ADVISE THE BUILDING OFFICIAL IN WRITING THAT:
   a. THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOILS REPORT.
   b. THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED.

FOUNDATION PLAN KEYED NOTES:

1. 8" CONC. WALL w/ #5 VERT. @ 16" o.c. & #4 HORZ. @ 16" o.c. REF. TO ARCH. & CIVIL FOR LENGTH & LOCATION
2. CONC. FOUNDATION
3. CONC. RETAINING WALL
4. CRAWLSPACE VENT/ACCESS. REF. TO ARCH. DWGS. FOR DIMENSIONS.
5. 2" CONC. RAT SLAB ON OVEREXCAVATED AND RECOMPACTED SOIL PER GEOTECH. REPORT

REF. TO ENVIROPLEX, INC. DRAWINGS, SHEET **S1W65** FOR MORE INFO.



MODULAR RESTROOM FOUNDATION PLAN

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

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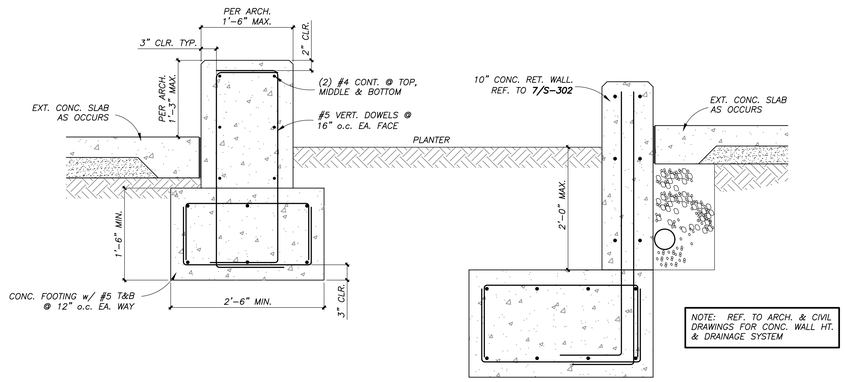
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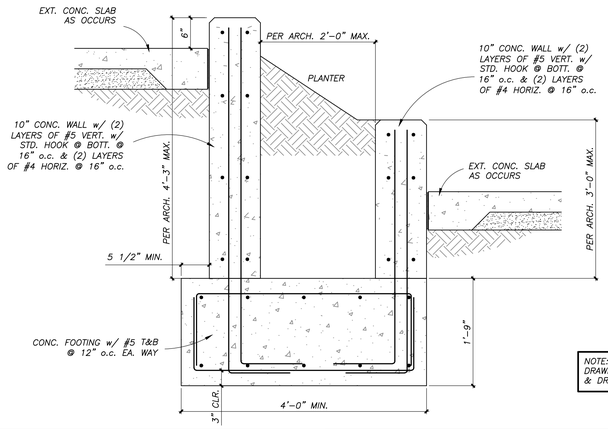
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1	-	-/-/-	XX

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DATE	06/01/26
JOB. NO.	SWA 24066
SHEET TITLE	ROOF FRAMING & FOUNDATION PLANS

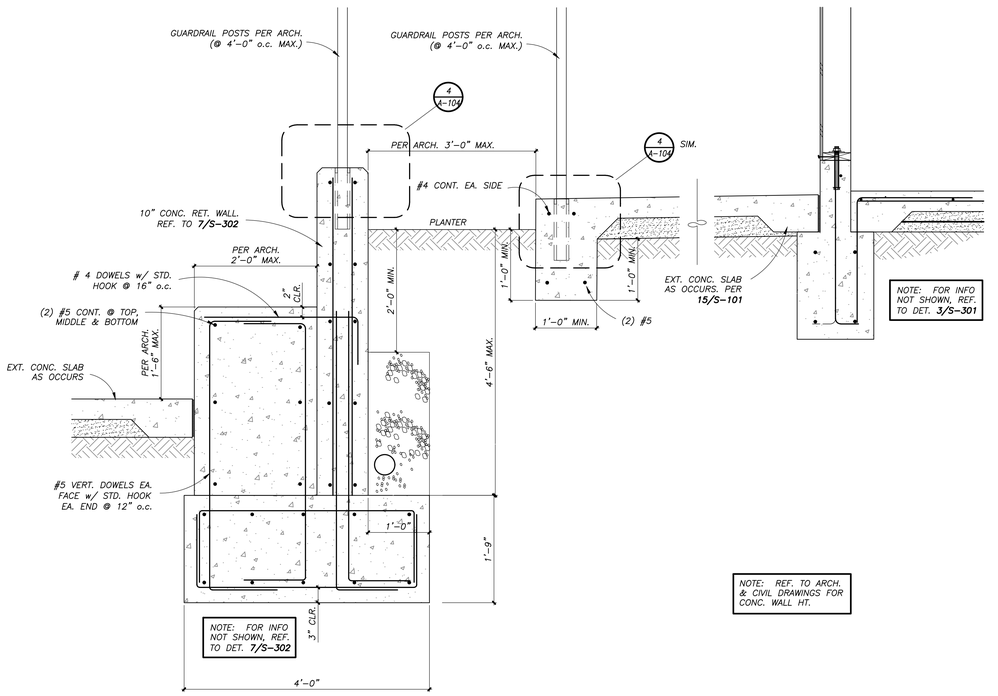
SHEET
S-203



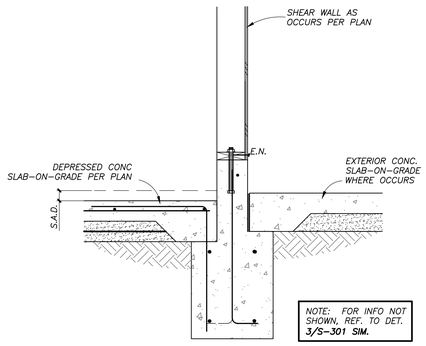
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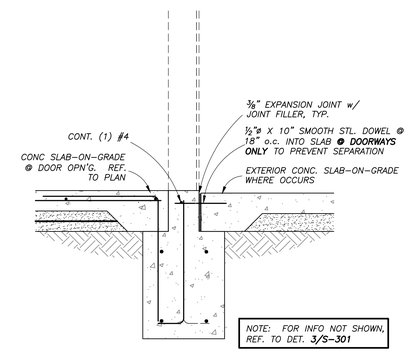


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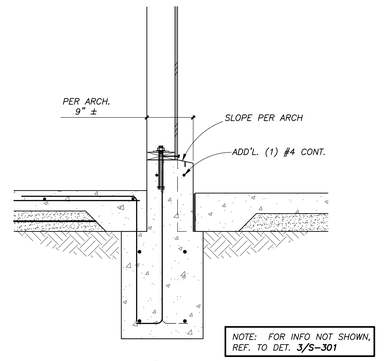


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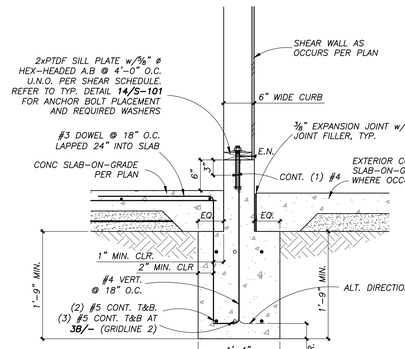
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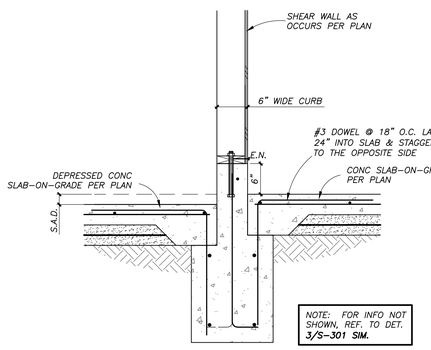


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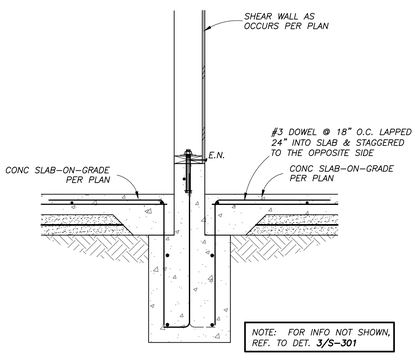
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3B 3A 3

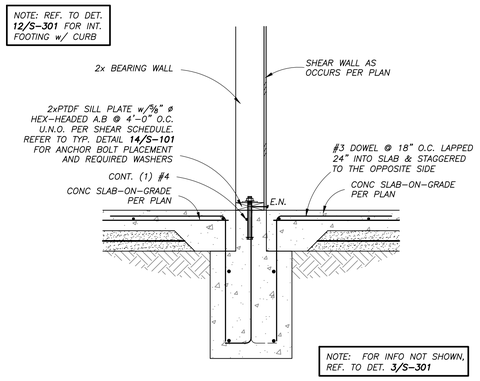


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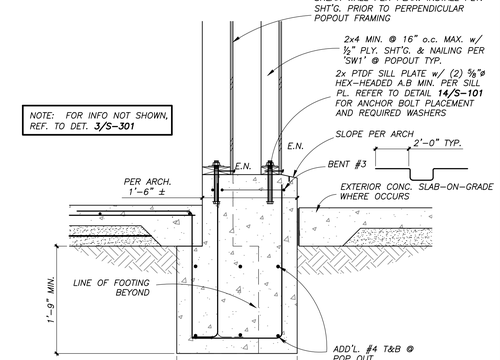
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12



8



4

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APP: 03-125456 INC:
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SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT
SAN LUIS OBISPO HIGH SCHOOL
1499 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401
NEW CLASSROOM BUILDING

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
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ENGINEER'S STAMP & SIGNATURE

CONSULTANT INFORMATION

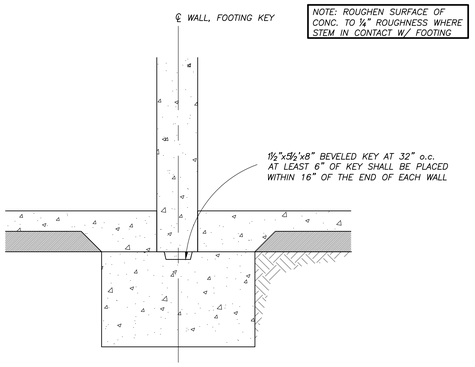
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SHEET TITLE STRUCTURAL DETAILS

SHEET
S-301



TYPICAL FOOTING/WALL KEY

NO SCALE

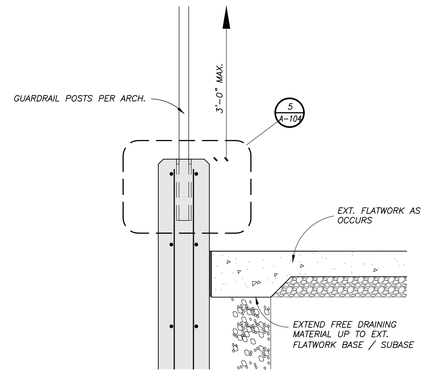
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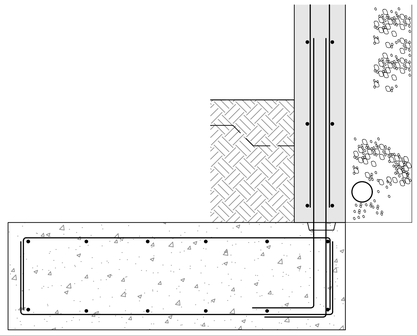
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MAX. WALL HEIGHT	MAX. RETAINING HEIGHT	FTG. WIDTH
7'–0"	6'–0"	4'–6"
7'–0"	5'–6"	4'–0"
6'–0"	4'–0"	3'–0"
5'–0"	2'–0" (*)	2'–6"

(*) WALL CENTERED ON FOOTING



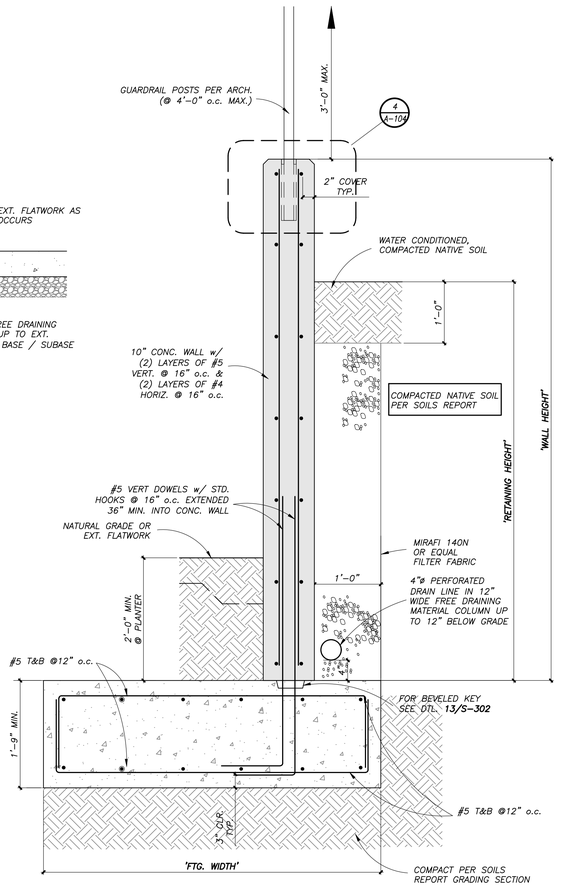
AT EXT. FLATWORK



OPT. FOOTING

REF. TO ARCH. FOR FOOTING OPTION

Scale: N.T.S.

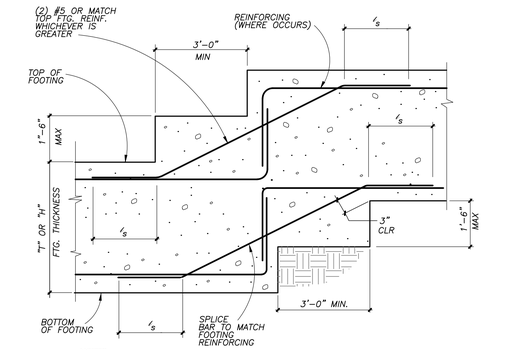


10" SITE RETAINING WALL

REF. TO DET. 4/S–302 FOR STEPPED FOOTING DETAIL WHERE OCCURS

Scale: N.T.S.

7

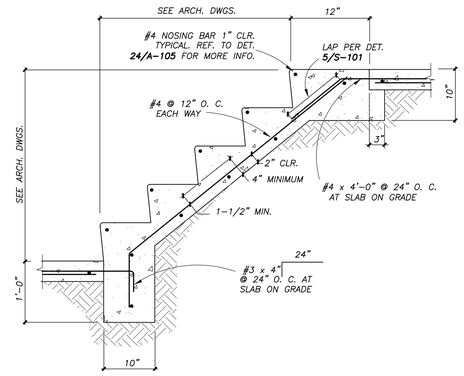


NOTES:
1. Ls : REF. TO 5/S–101
2. REF. TO FOOTING DETAILS FOR REINFORCING

TYP. STEP IN TOP & BOTTOM OF FOOTING OR GRADE BEAM

NO SCALE

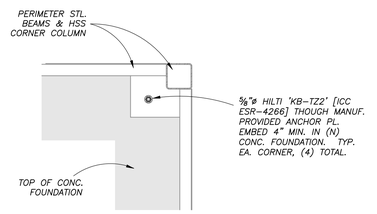
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CONCRETE STAIRS ON GRADE

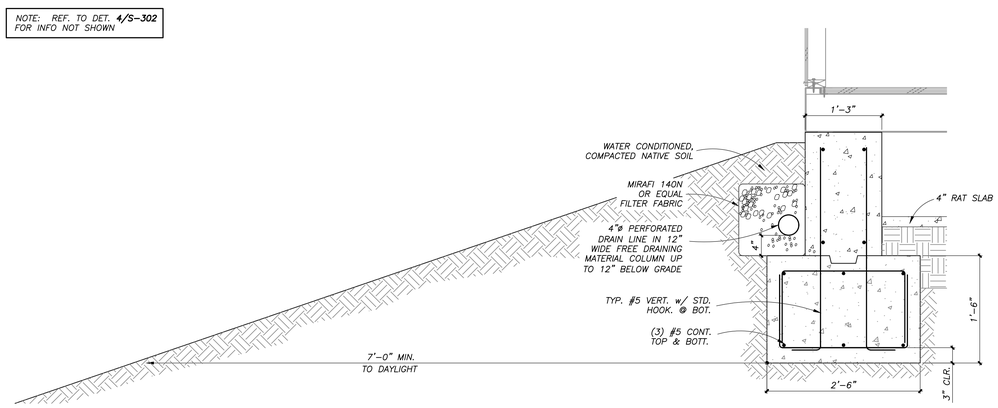
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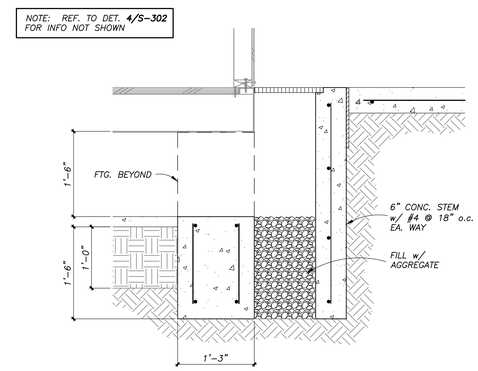


MODULAR BLDG. TYP. ANCHORAGE

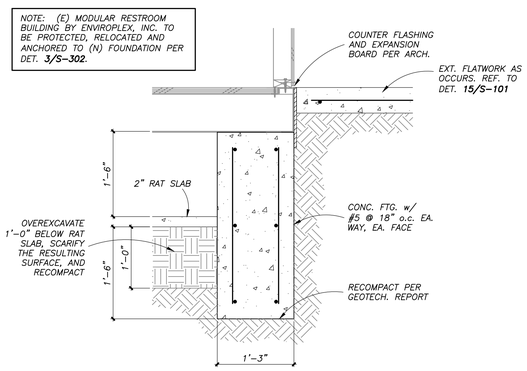
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12



8



4

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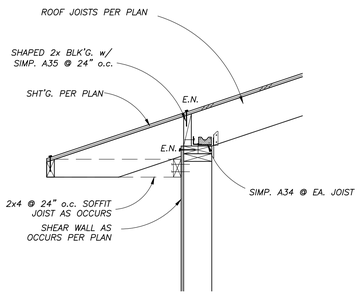
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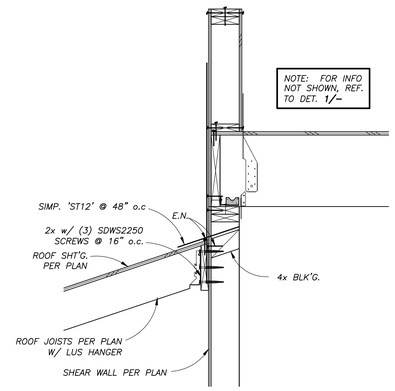
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SHEET TITLE STRUCTURAL DETAILS

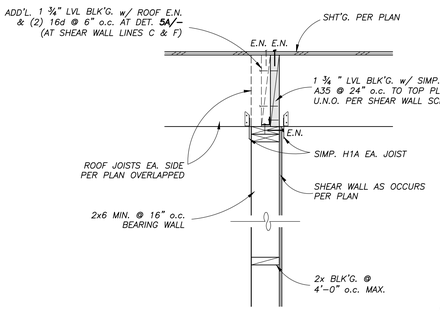
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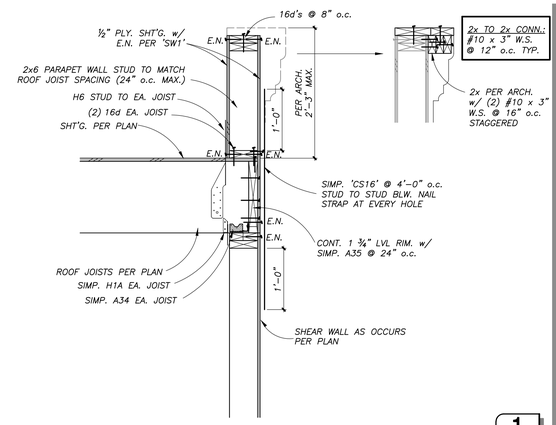
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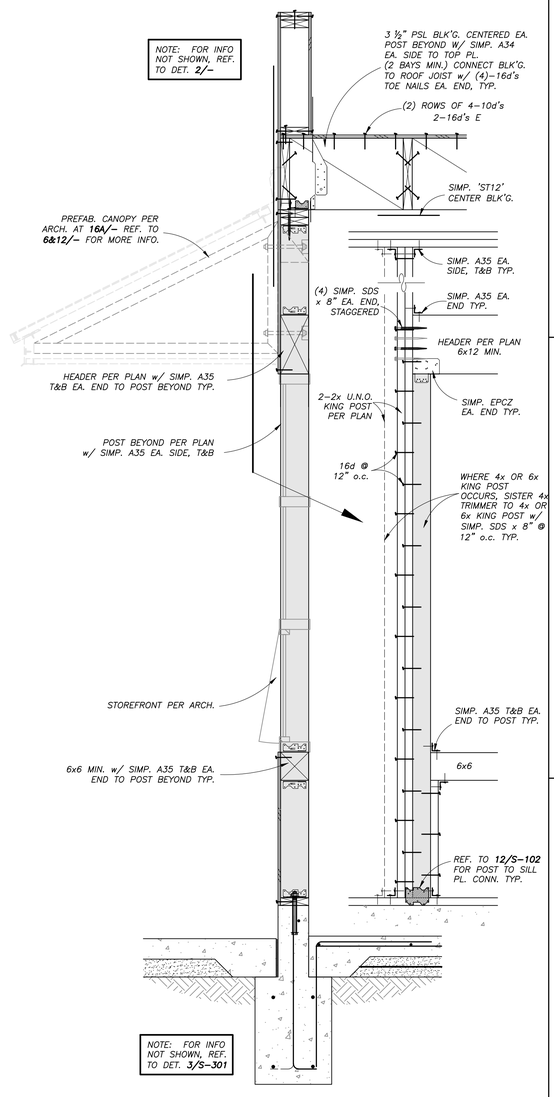
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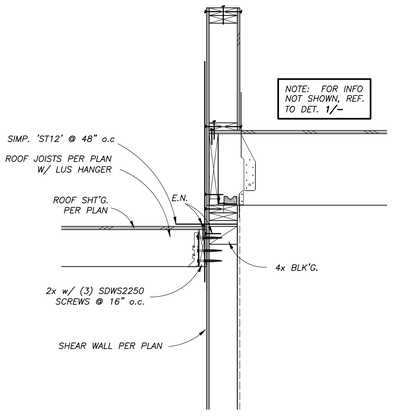
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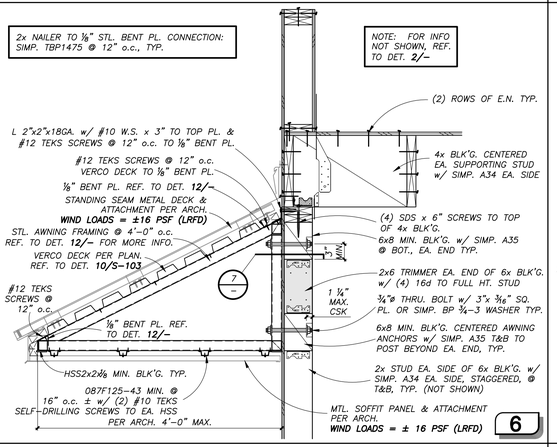
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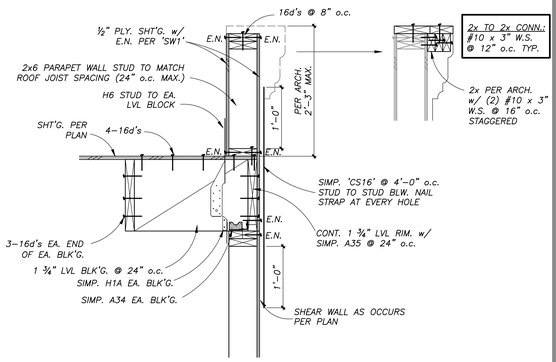
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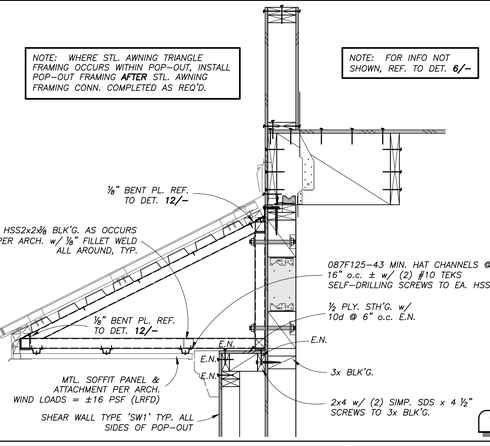
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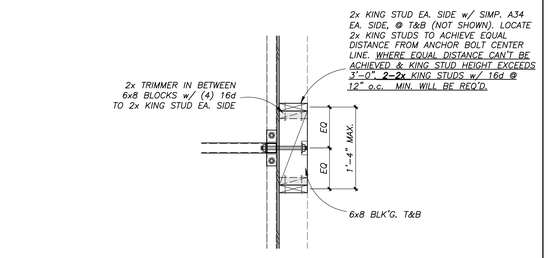
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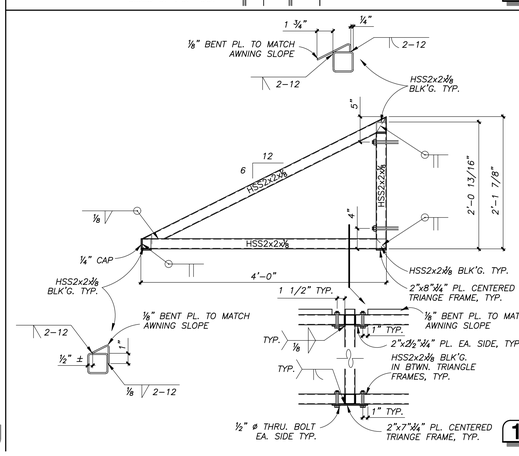


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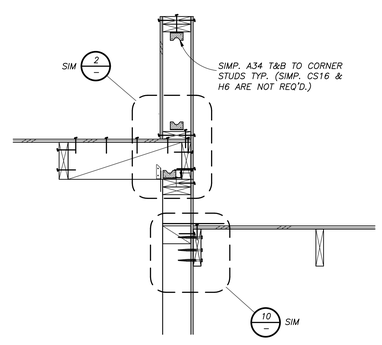


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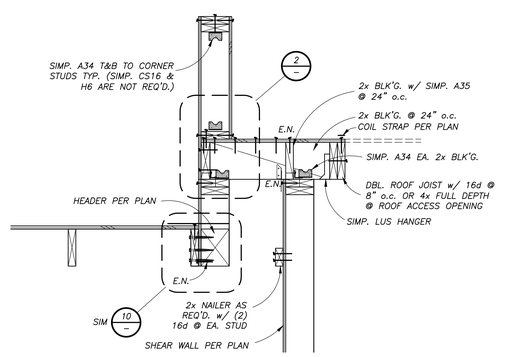
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SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT
SAN LUIS OBISPO HIGH SCHOOL
1499 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401
NEW CLASSROOM BUILDING

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REVISION	DESCRIPTION	DATE	BY
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SHEET TITLE STRUCTURAL DETAILS

SHEET S-303

MECHANICAL GENERAL NOTES

1. All work shown herein shall comply with the requirements of the following codes:
   - 2025 California Administrative Code (CAC): Part 1, Title 24, California Code of Regulations (CCR)
   - 2025 California Building Code (CBC): Part 2, Title 24 CCR
   - 2025 California Electrical Code (CEC): Part 3, Title 24 CCR
   - 2025 California Mechanical Code (CMC): Part 4, Title 24 CCR
   - 2025 California Plumbing Code (CPC): Part 5, Title 24 CCR
   - 2025 California Energy Code (CEnC): Part 6, Title 24 CCR
   - 2025 California Fire Code (CFC): Part 9, Title 24 CCR
   - 2025 California Green Building Standards Code (CALGreen): Part 11, Title 24 CCR
2. Furnish all labor, materials, transportation, and perform all required operations to provide complete and operable mechanical system, in accordance with the full intent and meaning of the drawings and specifications.
3. All locations of ductwork and equipment are shown diagrammatically. Adhere to locations as closely as possible, vary runs or shape of ductwork as required to meet structural and other interference's as required by the Architect.
4. Duct dimensions shown are internal. Increase outer duct dimension as required to account for the thickness of internal lining where applicable. All duct shall be fabricated and installed per Chapter 6, 2022 CMC.
5. The contractor shall submit shop drawings and catalog sheets to the Architect of all mechanical equipment items for approval.
6. All equipment shall be installed with sufficient access to controls, filters, electric motors, etc. Access clearance shall be 30" or as required by the equipment manufacturer, which ever is greater. Contractor shall provide access panels where required.
7. The Mechanical Contractor shall coordinate all items related to mechanical systems with the work of other trades before proceeding with procuring or fabrication of equipment, ductwork, piping etc. Items to be coordinated shall include but are not limited to the following:
   - Grilles, registers and diffusers shall be coordinated with the reflected ceiling plan
   - Ductwork locations and potential interferences with structural members, framing, fire sprinkler lines, plumbing waste lines, cable trays and conduit.
   - Openings required in walls, floors or ceilings shall be coordinated with the general contractor and/or framing contractor prior to the start of construction to avoid rework. Any rework required shall be at no additional cost to the owner.
   - Prior to bidding the project the mechanical contractor shall coordinate with the electrical contractor to determine who will be responsible for procuring and installing motor starters, conduit for low voltage controls and line voltage control devices, such as single pole switches.
   - Access to volume dampers for balancing. Access to all equipment, as well as platform and curb locations.
   - Construction of platforms and shaped runners or other means to mount curbs level. All platforms and curbs shall be level unless otherwise noted or detailed on the mechanical plans
8. The mechanical contractor shall coordinate with general contractor for access to all dampers, equipment, as well as platform and curb locations, and shall make all platforms and curbs level.
9. Fire dampers and combination fire/smoke dampers shall be State Fire Marshall approved and installed strictly in accordance with the manufacturer's instructions. Manufacturer's instructions shall be made available to the inspecting authority. Details shown are for reference only.
10. Materials exposed within any space being used as an air plenum shall be non combustible or shall have a flame spread index not greater than 25 and a smoke developed index not greater than 50, when tested as a composite product in accordance with one of the following test methods: NFPA 255, method of test of surface burning characteristics of building materials, ASTM E84, surface burning characteristics of building materials, or UL 723, test for surface burning characteristics of building materials.
11. Controls or switches intended to be used by the occupant of a room or area to control heating, cooling or ventilation equipment shall be mounted at the heights given by section 11B–308.1.1 of the 2022 CBC. Notify the architect immediately if the mounting heights required by the 2022 CBC cannot be obtained at the location where the control device is shown on the mechanical floor plans.
12. CO_2 sensors located adjacent to thermostats shall be mounted so that the centerline of the sensor is at the same height as the centerline of the thermostat. When a CO_2 sensor is not located adjacent to a thermostat the sensor shall be mounted so the centerline of the sensor is 48" AFF.
13. At the time of rough installation, or during storage on the construction site and until final startup of the heating and cooling equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of dust or debris which may collect in the system.

BRACING AND ANCHORAGE

Mechanical 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 123,26, 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 connection.
3. Temporary, movable or mobile equipment which is heavier than 400 pounds or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component is required to be restrained in a manner approved by DSA.

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

A. Components weighing less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.

B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

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

Piping, Ductwork, and Electrical Distribution System Bracing Note

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7–16 Section 13.3 as defined in ASCE 7–16 Section 13.6.5, 13.6.6, 13.6.7, 13.6.8, and 2022 CBC, Sections 1617A.1.24, 1617A.1.25 and 1617A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below and shall be in accordance with DSA IR 16–13. Each system shall be designed by a structural engineer and coordinated with the structural building system

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

MP [X] MD [X] PP [ ] E [ ] IR 16–13 Sections 2.1:Project–Specific Design.
Sheet numbers: _____

MP [ ] MD [ ] PP [ ] E [ ] IR 16–13 Sections 2.2:Design Based on OSHPD OPM, Part of Project Submittal.
OPM numbers: _____
Sheet numbers: _____

MP [ ] MD [ ] PP [ ] E [ ] IR 16–13 Sections 2.2.6:Design Based on OSHPD OPM, Deferred Approval.

CONTRACTOR ACCEPTANCE TESTING

1. The California Energy Code Section 10–103 requires Acceptance Testing on all newly installed lighting controls, mechanical systems, envelopes, and process equipment after installation and before project completion. An Acceptance Test is a functional performance test to help ensure that newly installed equipment is operating and in compliance with the Energy Code.
2. Lighting controls acceptance tests must be performed by a certified lighting controls Acceptance Test Technician (ATT).
3. Mechanical systems acceptance test must be performed by a certified mechanical ATT for projects submitted on or after October 1, 2021.
4. Envelope and process equipment acceptance tests shall be performed by the installing contractor, engineer/architect or record or the owner's agent.
5. A listing of certified ATT's can be found at https://www.energy.ca.gov/programs–and–topics/programs/acceptance–test–technician–certification–provider–program/acceptance
6. The Acceptance Testing procedures must be repeated, and deficiencies must be corrected by the builder or installing contractor unit the construction/installation of the specified systems conform and pass the required acceptance criteria.
7. Project inspectors will collect the forms to confirm that the required Acceptance Tests have been completed.

CAL GREEN CODE NONRESIDENTIAL MANDATORY MEASURES

DIVISION 5.4–MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

5.410.2 COMMISSIONING. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements.

Refer to the project specifications for commissioning requirements.

5.410.4 TESTING AND ADJUSTING. Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to 2022 CALGreen 303.1.

5.410.4.2 SYSTEMS. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse systems.

5.410.4.3 PROCEDURES. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

At a minimum the Mechanical Contractor shall obtain the latest start–up check list(s) from the equipment manufacturer and perform all tests and checks applicable. After completion of the start–up check list the Mechanical contractor shall make adjustments to put the equipment in peak working order. Mechanical Contractor shall document all work performed. Close out documentation provided to the General Contractor shall include all completed check list(s) and documentation for any work performed. The General Contractor shall submit the check list(s) and work documentation to Engineer of Record.

5.410.4.3.1 HVAC BALANCING. In addition to testing and adjusting, before a new space–conditioning system serving a building or space is operated for normal use, balance the system in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the building enforcing agency.

See Specification section 15600 for HVAC balancing requirements.

5.410.4.4 REPORTING. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

5.410.4.5 OPERATION AND MAINTENANCE (O&M) MANUAL. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O&M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.

5.410.4.5.1 INSPECTIONS AND REPORTS. Include a copy of all inspection verifications and reports required by the enforcing agency.

DIVISION 5.5–ENVIRONMENTAL QUALITY

SECTION 5.504 POLLUTANT CONTROL

5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if necessary to condition the building within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2–1999, or an average efficiency of 30% based on ASHRAE 52.1–1992. Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.

5.504.3 COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.

5.504.4.1 ADHESIVES, SEALANTS AND CAULKS. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:

1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.
2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with Section 94507.

ADHESIVE VOC LIMIT
Less Water and Less Exempt Compounds in Grams Per Liter

SPECIALTY APPLICATIONS	CURRENT VOC LIMIT
PVC welding	510
CPVC welding	490
ABS welding	325
Plastic cement welding	250
Adhesive primer for plastic	550
Contact adhesive	80
Special purpose contact adhesive	250

1. If an adhesive is used to bond dissimilar substrates together the adhesive with the highest VOC content shall be allowed.
2. For additional information regarding methods to measure the VOC content specified in this table, see South Coast Air Quality Management District Rule 1168, http://www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF.

5.504.5.3 FILTERS. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exceptions:

1. Existing mechanical equipment.

5.504.5.3.1 LABELING. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

SECTION 5.505 INDOOR MOISTURE CONTROL

5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

SECTION 5.506 INDOOR AIR QUALITY

5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the California Energy Code, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

5.506.2 CARBON DIOXIDE (CO2) MONITORING. For buildings or additions equipped with demand control ventilation, CO2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the 2022 California Energy Code, Section 120.1(c)(4).

SECTION 5.508 OUTDOOR AIR QUALITY

5.508.1 OZONE DEPLETION AND GREENHOUSE GAS REDUCTIONS. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

5.508.1.1 CHLOROFLUOROCARBONS (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

5.508.1.2 HALONS. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

HVAC LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
		CEILING SUPPLY
		CEILING RETURN
		CEILING EXHAUST
		SIDEWALL DIFFUSER, REGISTER, GRILLE OR LOUVER
		DUCT (RECTANGULAR)
		DUCT (ROUND)
	24x12L	LINED DUCTWORK
		TURNING VANE
		FLEXIBLE DUCT
	FC	FLEXIBLE CONNECTION
	VD	MANUAL AIR VOLUME DAMPER
OAI 500		OUTSIDE AIR INTAKE MIN. CFM
T AC–1		ROOM THERMOSTAT – SUBSCRIPT INDICATES UNIT CONTROLLED
S	S	ON/OFF SWITCH
FSC	FSC	FAN SPEED CONTROL
VFD	VFD	VARIABLE FREQUENCY DRIVE
DSD	DSD	DUCT SMOKE DETECTOR
Ø	DIA	DIAMETER
	CEF	CEILING EXHAUST FAN
DL 1FT²	DL	DOOR LOUVER – SUBSCRIPT INDICATES REQUIRED FREE AREA
		ACCESS CLEARANCE AREA – 30" OR AS REQUIRED BY THE EQUIPMENT MANUFACTURER, WHICH EVER IS GREATER
		REFRIGERANT LINES

HVAC ABBREVIATIONS

AC	AIR CONDITION(–ING,–ED)	HP	HORSEPOWER
ABV	ABOVE	HZ	HERTZ
AFF	ABOVE FINISHED FLOOR	IDU	INDOOR UNIT
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	IMP	IMPELLER
AHJ	AUTHORITY HAVING JURISDICTION	IWC	INCHES OF WATER COLUMN
ALUM	ALUMINUM	KWi	KILOWATT INPUT
AMB	AMBIENT	LBS	POUNDS
ARCH	ARCHITECTURAL	LWT	LEAVING WATER TEMPERATURE
ARI	AMERICAN REFRIGERATION INSTITUTE	MBH	BTU PER HOUR (THOUSAND)
BD	BOARD	MCA	MINIMUM CIRCUIT AMPS
BDD	BACKDRAFT DAMPER	MFGR	MANUFACTURE OR MANUFACTURER
BLW	BELOW	MU/MUA	MAKE UP AIR
BHP	BRAKE HORSE POWER	(N)	NEW
BLDG	BUILDING	NOM	NOMINAL
BTUH	BRITISH THERMAL UNIT / HOUR	NTS	NOT TO SCALE
CA	COMBUSTION AIR	OA	OUTSIDE AIR
CAP	CAPACITY	OAI	OUTSIDE AIR INTAKE
CD	CONDENSATE DRAIN	OBD	OPPOSED BLADE DAMPER
CFD	CEILING FIRE DAMPER	ODU	OUTDOOR UNIT
CFM	CUBIC FEET PER MINUTE	OPT	OPERATING
CONN	CONNECTION	OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
CONT	CONTINUATION		
CSE	CALIFORNIA SEASONAL EFFICIENCY	PD	PRESSURE DROP
DB	DRY BULB TEMPERATURE	PSI	POUNDS PER SQUARE INCH
DET	DETAIL	RA	RETURN AIR
DN	DOWN	REFRIG	REFRIGERANT
DSA	DEPARTMENT OF THE STATE ARCHITECT	RM	ROOM
(E)	EXISTING	RND	ROUND
EA	EXHAUST AIR	SA	SUPPLY AIR
EDB	ENTERING DRY BULB TEMPERATURE	SEER	SEASONAL ENERGY EFFICIENCY
EER	ENERGY EFFICIENCY RATIO	SFD	SMOKE FIRE DAMPER
EFF	EFFICIENCY	SHT	SHEET
ELEC	ELECTRICAL	SM	SHEET METAL
ESP	EXTERNAL STATIC PRESSURE	SOV	SHUT OFF VALVE
EWB	ENTERING WET BULB	SP	STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE	SQ	SQUARE
EVAP	EVAPORATOR	SS	STAINLESS STEEL
FA	FACE AREA	SSE	STEADY STATE EFFICIENCY
FC	FLEXIBLE CONNECTION	SST	SATURATED SUCTION TEMPERATURE
FD	FIRE DAMPER	TYP	TYPICAL
FLA	FULL LOAD AMP	TXV	THERMAL EXPANSION VALVE
FPM	FEET PER MINUTE	UON	UNLESS OTHERWISE NOTED
FSC	FAN SPEED CONTROL	UTR	UP TO ROOF OR UP THROUGH ROOF
GA	GAGE OR GAUGE	VD	VOLUME DAMPER
GALV	GALVANIZED	WB	WET BULB TEMPERATURE
GPM	GALLONS PER MINUTE	WC	WATER COLUMN
GYP	GYPSUM	WG	WATER GAUGE
HD	HEAD	WT	WEIGHT

MECHANICAL SHEET INDEX

M–000 MECHANICAL NOTES, LEGEND & ABBREVIATIONS
M–010 MECHANICAL SCHEDULES
M–020 MECHANICAL DETAILS
M–021 MECHANICAL CONTROLS
M–200 MECHANICAL FLOOR PLAN
M–201 MECHANICAL ROOF PLAN
M–301 MECHANICAL SECTIONS & ENLARGED PLANS

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NEW CLASSROOM BUILDING &RELOCATION OF MODULAR RESTROOM

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JOB. NO. 24010

SHEET TITLE MECHANICAL NOTES, LEGEND AND ABBREVIATIONS

SHEET M-000

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MECHANICAL ECONOMIZING MIXING BOX

UNIT PERFORMANCE AND DESIGN CRITERIA

MARK	MAKE	MODEL	SYSTEM DESCRIPTION
MB–1.204	MICROMETL	MB–GP20CB–D00B	ECONOMIZING MIXING BOX
MB–1.205	MICROMETL	MB–GP20CB–D00B	ECONOMIZING MIXING BOX
MB–1.206	MICROMETL	MB–GP20CB–D00B	ECONOMIZING MIXING BOX
MB–1.207	MICROMETL	MB–GP20CB–D00B	ECONOMIZING MIXING BOX
MB–1.208	MICROMETL	MB–GP20CB–D00B	ECONOMIZING MIXING BOX
MB–1.209	MICROMETL	MB–GP20CB–D00B	ECONOMIZING MIXING BOX
MB–1.210	MICROMETL	MB–GP20CB–D00B	ECONOMIZING MIXING BOX



Refer To Submittal For Dimensions

Description: Mixing Box - CUBE - 1500-2000 CFM , Ultra Low Leak Genesis No Controls - No Controller, No Sensor, Belimo Actuator, Galvanized Metal With Gears Comprised of Polybutylene Terephthalate (PBT) Flame Retardant 30% Glass Filled , Barometric Relief NOT Included. Field Fabrication of a Transition May Be Required. Dampers are convertible

Manufacturer: MicroMetl
Weight: 72lbs/32.66kg
See Submittal for Static Pressure Chart.

CFM Size: 1500-2000 CFM
Leakage Compliance: Ultra Low Leak Genesis
Certification: AMCA Class 1A Certified
Frame Gauge: 18.00 **Blade Gauge:** 18.00 **Control Box Gauge:** 20.00
Combined Size: 23.50 Inches Wide X 23.50 Inches High X 23.50 Inches Deep With Damper I.D. Dimensions of 18.00 Inches Wide
Control Type: No Controls
Controller: No Controller
Energy Module Included: No
Sensor Type: No Sensor **Quantity:** 0
Actuator Type: Belimo Actuator (2–10Vdc) **Quantity:** 2

FAN COIL UNIT SCHEDULE

MARK	MAKE	MODEL	FAN UNIT: MIN. OA CFM	DCV CFM	FAN: CFM	FAN: ESP	FAN: HP (KW)	DX COIL CAPACITY: BTUH	DX COIL CAPACITY: TONS	CONDENSATE CONNECTION SIZE	POWER	AUX. ELEC. HEAT (KW)	UNIT FLA TOTAL	MIN. CIRC. AMPS	MOP	FILTER SIZE	UNIT WT.	MATCHING UNIT HPC–	REMARKS (SEE BELOW)	AREA SERVED	MOUNTING DETAIL	REFRIG. TYPE
FC–1.204	MITSUBISHI	SVZ–AP48NL	175	500	1,500	0.8	(430)	48,000	4.0	3/4	208–1–60	N/A	–	5.63	–	24x20x2	175	1.204	NOTES 1–5, C1	CLASSROOM – 1204	2/M–020	R–454B
FC–1.205	MITSUBISHI	SVZ–AP48NL	150	500	1,500	0.8	(430)	48,000	4.0	3/4	208–1–60	N/A	–	5.63	–	24x20x2	175	1.204	NOTES 1–5, C1	CLASSROOM – 1205	2/M–020	R–454B
FC–1.206	MITSUBISHI	SVZ–AP48NL	150	500	1,500	0.8	(430)	48,000	4.0	3/4	208–1–60	N/A	–	5.63	–	24x20x2	175	1.204	NOTES 1–5, C1	CLASSROOM – 1206	2/M–020	R–454B
FC–1.207	MITSUBISHI	SVZ–AP48NL	150	500	1,500	0.8	(430)	48,000	4.0	3/4	208–1–60	N/A	–	5.63	–	24x20x2	175	1.204	NOTES 1–5, C1	CLASSROOM – 1207	2/M–020	R–454B
FC–1.208	MITSUBISHI	SVZ–AP48NL	150	500	1,500	0.8	(430)	48,000	4.0	3/4	208–1–60	N/A	–	5.63	–	24x20x2	175	1.204	NOTES 1–5, C1	CLASSROOM – 1208	2/M–020	R–454B
FC–1.209	MITSUBISHI	SVZ–AP48NL	150	500	1,500	0.8	(430)	48,000	4.0	3/4	208–1–60	N/A	–	5.63	–	24x20x2	175	1.204	NOTES 1–5, C1	CLASSROOM – 1209	2/M–020	R–454B
FC–1.210	MITSUBISHI	SVZ–AP48NL	150	500	1,500	0.8	(430)	48,000	4.0	3/4	208–1–60	N/A	–	5.63	–	24x20x2	175	1.204	NOTES 1–5, C1	CLASSROOM – 1210	2/M–020	R–454B

Notes:
1. Refrigeration piping to be sized per manufacturer's requirement for total developed line length.
2. Provide with Glasfloss ZL MERV–13 filters (2)14x20x2.
3. Provide with factory disconnect.
4. Provide with Micrometl Economizing Mixing Box (part# MB–GP20CB–D00B).
5. Unit to be gravity drained. Provide with secondary condensate drainage pan.
6. Unit is provided with integral condensate pump. Contractor to disable pump and gravity drain fan coil
7. Provide with integral condensate switch to shut unit down if condensate backs up in pan.

C1. Provide fan coil unit with Daikin DKN Plus Interface (part# AZA16WSPDKC) for interface to 3rd party thermostat. Provide Schneider Electric SE8650U0B11 programmable thermostat controller and DCV for unit. Refer to MC sheets for requirements.

EXHAUST FAN SCHEDULE

MARK	MAKE	MODEL	TYPE	FAN: CFM	FAN: SP	FAN: RPM	FAN: SONES (dB)	FAN: DRIVE	MOTOR: WATT (HP)	MOTOR: POWER V–ϕ–Hz	MOTOR: SPEED CONTROL	MOTOR: ENCLOSURE	ACCESSORIES: BIRD GUARD	ACCESSORIES: BACKDRAFT DAMPER	ACCESSORIES: ROOF CURB	ACCESSORIES: ROOF JACK	ACCESSORIES: WALL CAP	WEIGHT (LBS.)	REMARKS (SEE BELOW)	AREA SERVED	MOUNTING DETAIL
CEF–1.201	GREENHECK	CSP–A390–VG	CEILING	200	0.125	798	0.4	DIRECT	18	120–1–60	YES	ODP	YES	YES	NO	YES	NO	25	Notes 1–3,C1	ELEC – 1201	9/M–020
CEF–1.202	GREENHECK	SP–LP0511–1	CEILING	75	0.125	779	0.8	DIRECT	8	120–1–60	YES	ODP	YES	YES	NO	YES	NO	25	Notes 1–3,C2	CUSTODIAN – 1202	9/M–020
CEF–1.203	GREENHECK	SP–LP0511–1	CEILING	75	0.125	779	0.8	DIRECT	8	120–1–60	YES	ODP	YES	YES	NO	YES	NO	25	Notes 1–3,C2	STAFF TOILET – 1203	9/M–020

Notes:
1. Fan to be listed UL/cUL 507 – Electric Fan.
2. Disconnect is plug type.
3. Fan speed control factory mounted, wired, and accessible through grille.

C1. Provide with line voltage thermostat set to energize fan on a temperature rise above 80°F. Refer to floor plan for location.
C2. Fan to be interlocked with light switch. Provide 5 minute timed delay off. Interlock and time delay by electrical.

HEAT PUMP CONDENSING UNIT

MARK	MAKE	MODEL	NOM TONS	ELECTRICAL DATA: POWER	ELECTRICAL DATA: MOCP	ELECTRICAL DATA: MIN. CIRC AMPS	ELECTRICAL DATA: FUSE	ARI PERFORMANCE: COOLING BTUH	ARI PERFORMANCE: EER2	ARI PERFORMANCE: SEER2	ARI PERFORMANCE: HEATING BTUH (47F)	ARI PERFORMANCE: HEATING (17F)	ARI PERFORMANCE: HSPF2	UNIT WT.	MATCHING UNIT FC–	REMARKS	AREA SERVED	MOUNTING DETAIL	REFRIG. TYPE
HPC–1.204	DAIKIN	SUZ–AK48NL	4.0	208–1–60	67	38	40	48,000	9.1	17.1	60,000	38,000	8.1	275	1.204	NOTES 1–2	CLASSROOM – 1204	11/M–020	R–454B
HPC–1.205	DAIKIN	SUZ–AK48NL	4.0	208–1–60	67	38	40	48,000	9.1	17.1	60,000	38,000	8.1	275	1.205	NOTES 1–2	CLASSROOM – 1205	11/M–020	R–454B
HPC–1.206	DAIKIN	SUZ–AK48NL	4.0	208–1–60	67	38	40	48,000	9.1	17.1	60,000	38,000	8.1	275	1.206	NOTES 1–2	CLASSROOM – 1206	11/M–020	R–454B
HPC–1.207	DAIKIN	SUZ–AK48NL	4.0	208–1–60	67	38	40	48,000	9.1	17.1	60,000	38,000	8.1	275	1.207	NOTES 1–2	CLASSROOM – 1207	11/M–020	R–454B
HPC–1.208	DAIKIN	SUZ–AK48NL	4.0	208–1–60	67	38	40	48,000	9.1	17.1	60,000	38,000	8.1	275	1.208	NOTES 1–2	CLASSROOM – 1208	11/M–020	R–454B
HPC–1.209	DAIKIN	SUZ–AK48NL	4.0	208–1–60	67	38	40	48,000	9.1	17.1	60,000	38,000	8.1	275	1.209	NOTES 1–2	CLASSROOM – 1209	11/M–020	R–454B
HPC–1.210	DAIKIN	SUZ–AK48NL	4.0	208–1–60	67	38	40	48,000	9.1	17.1	60,000	38,000	8.1	275	1.210	NOTES 1–2	CLASSROOM – 1210	11/M–020	R–454B

Notes:
1. Size refrigerant lines and provide all accessories per manufacturer's recommendation for total developed line length.
2. Unit to be provided with Daikin ITouch Manager (DCM601A71) for mechanical system networking. Install at supervisory control panel. Refer to MC1 for requirements.

SPLIT SYSTEM HEAT PUMP SCHEDULE

MARK	MAKE	MOUNTING TYPE	SERIES	ARI CAPACITY (BTUH): COOLING	ARI CAPACITY (BTUH): HEATING @47/17	HSPF2	COP @47/17	EER2	SEER2	INDOOR UNIT (IDU): MODEL	POWER	MCA	MOCP	FAN WATTS	CFM	WEIGHT	OUTDOOR UNIT (ODU): MODEL	REFRIGERANT: TYPE	REFRIGERANT: PIPE ODs	POWER	MCA	MOP	WEIGHT	REMARKS	MOUNTING DETAIL IDU/ODU
DS–1.201	DAIKIN	HIGHWALL	MINI–SPLIT	18,000	21,600 13,700	10.3	3.77/1.82	14.05	22.5	MSZ–GX18NL	208–1–60	1	NOTE 1	56	650	30	MUZ–GX18NL	R–454B	1/2;3/8	208–1–60	23	40	125	NOTES 1–6	13/M–020 11/M–020

Notes:
1. Indoor unit (IDU) powered by outdoor unit (ODU).
2. Provide with manufacturers programmable digital wired controller. Controller shall be T24 compliant.
3. Size refrigeration lines according to manufacturer's requirements for total developed line length.
4. Insulate suction and liquid lines with closed cell insulation for entire run between IDU & ODU – all lineset insulation exposed to weather to be provided with protective metal cladding / jacketing.
5. Provide ODU with protective coastal coating.
6. Unit to be gravity drained with overflow switch for unit shutdown on condensate overflow.

RELIEF AND INTAKE HOOD SCHEDULE

MARK	MAKE	MODEL	TYPE	THROAT SIZE IN." DIA.	THROAT AREA SQFT.	CFM	SP	VELOCITY	ACCESSORIES: BIRD GUARD	ACCESSORIES: BACKDRAFT DAMPER	ACCESSORIES: ROOF CURB	WEIGHT (LBS)	REMARKS	MOUNTING DETAIL
RH–1.204	GREENHECK	GRSR–24	GRAVITY RELIEF	24	3	1520	0.039	469	YES	YES	YES	75	NOTE 1	1/M–020
RH–1.205	GREENHECK	GRSR–24	GRAVITY RELIEF	24	3	1520	0.039	469	YES	YES	YES	75	NOTE 1	1/M–020
RH–1.206	GREENHECK	GRSR–24	GRAVITY RELIEF	24	3	1520	0.039	469	YES	YES	YES	75	NOTE 1	1/M–020
RH–1.207	GREENHECK	GRSR–24	GRAVITY RELIEF	24	3	1520	0.039	469	YES	YES	YES	75	NOTE 1	1/M–020
RH–1.208	GREENHECK	GRSR–24	GRAVITY RELIEF	24	3	1520	0.039	469	YES	YES	YES	75	NOTE 1	1/M–020
RH–1.209	GREENHECK	GRSR–24	GRAVITY RELIEF	24	3	1520	0.039	469	YES	YES	YES	75	NOTE 1	1/M–020
RH–1.210	GREENHECK	GRSR–24	GRAVITY RELIEF	24	3	1520	0.039	469	YES	YES	YES	75	NOTE 1	1/M–020
IH–1.204	GREENHECK	GRSR–24	GRAVITY INTAKE	24	3	1520	0.039	469	YES	YES	YES	75	NOTE 1	1/M–020
IH–1.205	GREENHECK	GRSR–24	GRAVITY INTAKE	24	3	1520	0.039	469	YES	YES	YES	75	NOTE 1	1/M–020
IH–1.206	GREENHECK	GRSR–24	GRAVITY INTAKE	24	3	1520	0.039	469	YES	YES	YES	75	NOTE 1	1/M–020
IH–1.207	GREENHECK	GRSR–24	GRAVITY INTAKE	24	3	1520	0.039	469	YES	YES	YES	75	NOTE 1	1/M–020
IH–1.208	GREENHECK	GRSR–24	GRAVITY INTAKE	24	3	1520	0.039	469	YES	YES	YES	75	NOTE 1	1/M–020
IH–1.209	GREENHECK	GRSR–24	GRAVITY INTAKE	24	3	1520	0.039	469	YES	YES	YES	75	NOTE 1	1/M–020
IH–1.210	GREENHECK	GRSR–24	GRAVITY INTAKE	24	3	1520	0.039	469	YES	YES	YES	75	NOTE 1	1/M–020

Notes: 1. Provide with curb to match roof pitch and slope.

GRILLE, REGISTER & DIFFUSER SCHEDULE

FD = FIRE DAMPER
FSD = FIRE/SMOKE DAMPER
OAI = OUTSIDE AIR INTAKE
X"ø = INLET SIZE (IF APPLICABLE)

FD (S1) 400 / 12x12 — 400: CFM; 12x12: NECK SIZE (length x width or length x height); S1: MARK: S = SUPPLY; R = RETURN, E = EXHAUST; T = TRANSFER; L = LOUVER

CEILING MOUNTED SUPPLY AIR DIFFUSER DEFLECTION LEGEND: 1–WAY | 2–WAY CORNER | 2–WAY OPPOSITE | 3–WAY | 4–WAY

MARK	MAKE	MODEL	CONSTRUCTION	FINISH	BORDER	OBD	REMARKS (SEE BELOW)
							SUPPLY
S1	TITUS	TDC	STEEL	WHITE	TYPE 3	NO	–
							RETURN
R1	TITUS	350RL	STEEL	WHITE	TYPE 1	NO	–
							EXHAUST
E1	TITUS	50F	ALUMINUM	WHITE	TYPE 3	NO	–

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DATE: 07/01/2026

SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT
SAN LUIS OBISPO HIGH SCHOOL
1489 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401

NEW CLASSROOM BUILDING
&RELOCATION OF MODULAR RESTROOM

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELLAGA STREET SANTA BARBARA CA 93101
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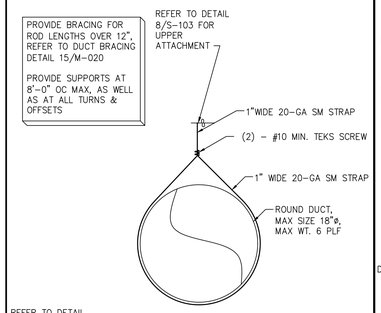
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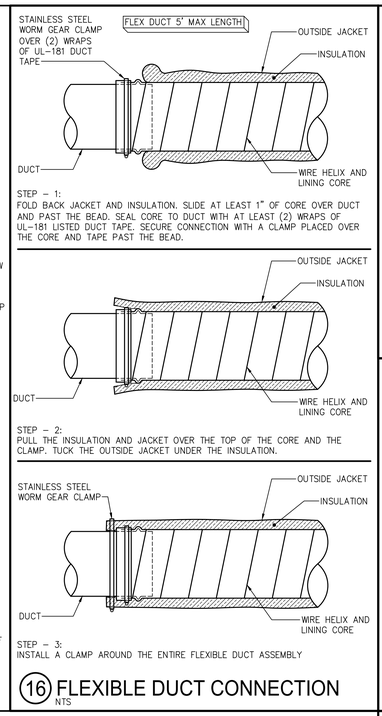
SHEET TITLE MECHANICAL SCHEDULES

SHEET M-010

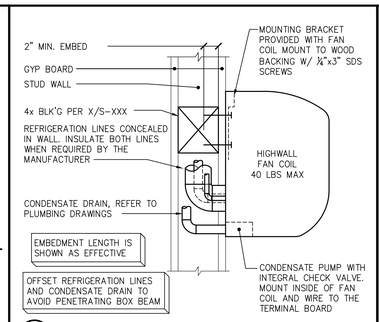
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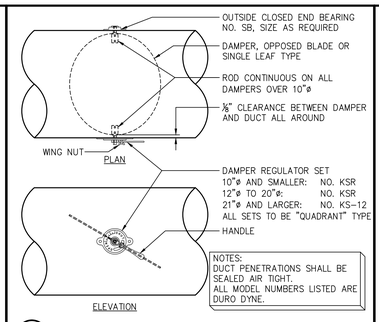
17 DUCT SUPPORT DETAIL



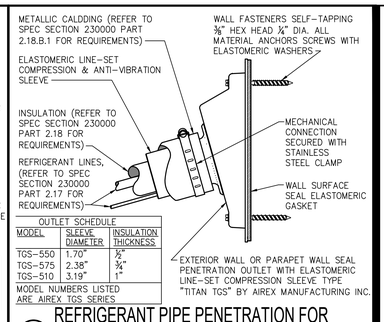
16 FLEXIBLE DUCT CONNECTION
NTS



13 HIGH WALL FAN COIL MOUNTING
NTS



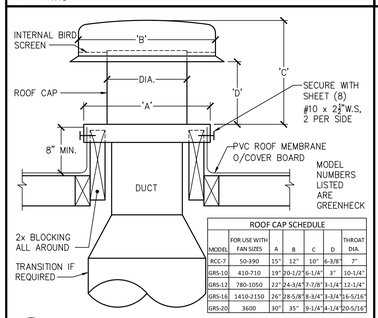
8 ROUND VOLUME DAMPER
NTS



OUTLET SCHEDULE		
MODEL	SLEEVE DIAMETER	INSULATION THICKNESS
TGS-550	1.70"	½"
TGS-575	2.38"	¾"
TGS-510	3.19"	1"

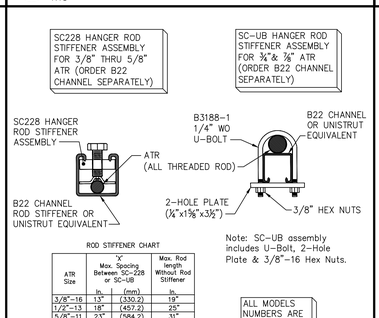
MODEL NUMBERS LISTED ARE AIREX TGS SERIES

4 REFRIGERANT PIPE PENETRATION FOR MASONRY, STUCCO & FLAT APPLICATIONS
NTS



ROOF CAP SCHEDULE							
MODEL	FOR USE WITH FAN SIZES	A	B	C	D		THROAT DIA.
RCC-7	50-390	15"	12"	10"	6-3/8"		7"
GRS-10	410-710	19"	20-1/2"	6-1/4"	3"		10-1/4"
GRS-13	780-1050	22"	24-1/4"	7-7/8"	3-1/4"		12-1/4"
GRS-16	1410-2150	26"	28-5/8"	8-3/4"	3-3/4"		16-5/16"
GRS-20	3600	30"	35"	9-1/4"	4-1/4"		20-5/16"

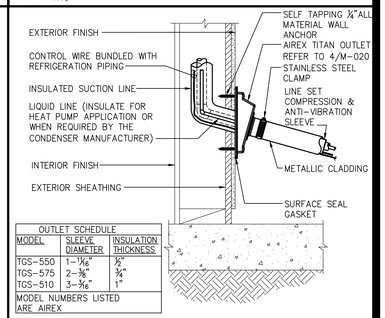
12 ROOF CAP (TPO ROOF)
NTS



ATR Size	'X' Max. Spacing Between SC-228 or SC-UB		Max. Rod length Without Rod Stiffener
	In.	(mm)	In.
3/8"-16	13"	(330.2)	19"
1/2"-13	18"	(457.2)	25"
5/8"-11	23"	(584.2)	31"
3/4"-10	28"	(711.2)	–
7/8"-9	33"	(838.2)	–

Note: Minimum of (2)-SC228 or SC-UB are required per rod.

6 PIPE SUPPORT
NTS

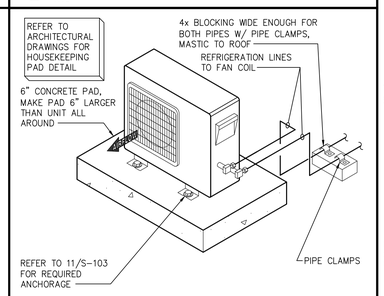


OUTLET SCHEDULE		
MODEL	SLEEVE DIAMETER	INSULATION THICKNESS
TGS-550	1-⅛"	½"
TGS-575	2-⅜"	¾"
TGS-510	3-⅜"	1"

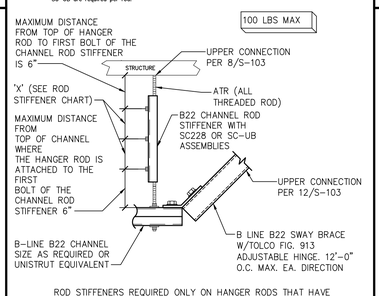
MODEL NUMBERS LISTED ARE AIREX

3 REFRIGERATION PIPES THRU EXTERIOR WALL
NTS

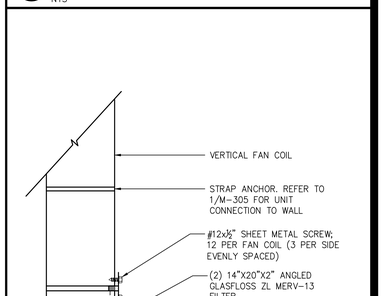
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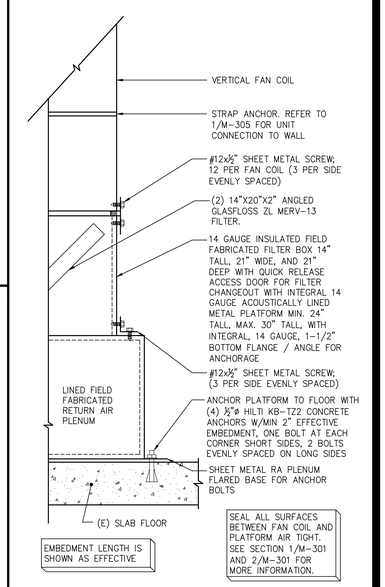
11 CONDENSER MOUNTING
NTS



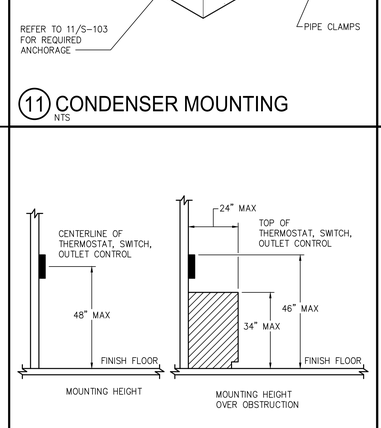
7 HANGER ROD STIFFENER
NTS



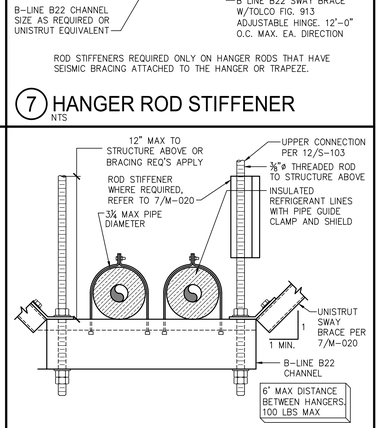
1 INTAKE/RELIEF HOOD MOUNTING
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2 VERTICAL FAN COIL ANCHORAGE
NTS

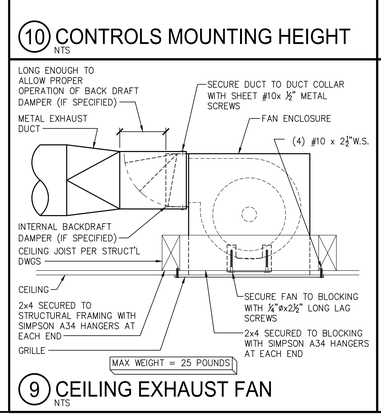


10 CONTROLS MOUNTING HEIGHT
NTS



6 PIPE SUPPORT
NTS

5 DIFFUSER CONNECTION
NTS



9 CEILING EXHAUST FAN
NTS

14 NEC ELECTRICAL ROOM PIPING CLEARANCE REQUIREMENTS

110.26 Article 110 • Requirements for Electrical Installations

protection apparatus, or equipment foreign to the electrical installation. Plumbing, heating, ventilation, and air-conditioning piping, ducts, and equipment must be installed outside the width and depth zone. Busways, conduits, raceways, and cables are permitted to enter equipment through this zone.

Foreign systems installed directly above the dedicated space reserved for electrical equipment are required to include protective equipment that ensures that occurrences such as leaks, condensation, and falling tools or leaks do not damage the electrical equipment, installation, or both.

Sprinkler protection is permitted for the dedicated spaces as long as the sprinkler or other suppression system piping complies with 110.26(E)(1)(i). A dropped, suspended, or similar ceiling is permitted to be located directly in the dedicated space, because they are not considered structural ceilings. Building structural members are also permitted in this space.

The electrical equipment also must be protected from physical damage. Damage can be caused by activities performed near the equipment, such as material handling by personnel or the operation of a forklift or other mobile equipment. See 110.27(B) for other requirements relating to the protection of electrical equipment.

Exhibits 110.24, 110.25, and 110.26 illustrate the two distinct indoor installation spaces required by 110.26(A) and 110.26(B), that is, the working space and the dedicated electrical space.

In Exhibit 110.24, the dedicated electrical space required by 110.26(E) is the space outlined by the width and the depth of the equipment (the footprint) and extending from the floor to 6 feet above the equipment or to the structural ceiling (whichever is lower). The dedicated electrical space is reserved for the installation of electrical equipment and for the installation of conduits, cable trays, and so forth, entering or exiting that equipment. The outlined area in front of the electrical equipment in Exhibit 110.24 is the working space required by 110.26(A). Note that sprinkler protection is afforded the entire dedicated electrical space and working space without actually entering either space. Also note

EXHIBIT 110.24 The two distinct indoor installation spaces: the working space and the dedicated electrical space.

EXHIBIT 110.25 The working space in front of a panelboard. (This illustration supplements the dedicated electrical space shown in Exhibit 110.24.)

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Dimmer Panels are defined as panelboard per below.

makes two important distinctions between overcurrent protective devices. First, the use of a supplementary device is specifically limited to a few applications. Second, where it is used, the supplementary device must be in addition to and be protected by the more robust branch-circuit overcurrent protective device.

Overload. Operation of equipment in excess of normal, full-load rating, or of a conductor in excess of rated ampacity that, when it persists for a sufficient length of time, would cause damage or dangerous overheating. A fault, such as a short circuit or ground fault, is not an overload.

Panelboard. A single panel or group of panel units designed for assembly in the form of a single panel, including buses and automatic overcurrent devices, and equipped with or without switches for the control of light, heat, or power circuits; designed to be placed in a cabinet or cutout box placed in or against a wall, partition, or other support, and accessible only from the front.

Photovoltaic (PV) System. The total components and subsystem that, in combination, convert solar energy into electric energy suitable for connection to a utilization load.

Plenum. A compartment or chamber to which one or more air ducts are connected and that forms part of the air distribution system.

Because of concerns about the transfer of products of combustion through environmental air systems, the *NEC* provides specific requirements—in 300.22(B), (C), and (D) and in Articles 725, 760, 770, 800, 820, 830, and 840—for the installation of wiring methods that are subject to the direct flow of environmental air. The *NEC* definition of the term *plenum* is similar to the definition of *return-air system* in the *International Mechanical Code® and Air-Conditioning and Ventilating System*. The definition is used in conjunction with the requirements for the installation of wiring methods in spaces used for air transfer that are not specifically fabricated as ducts for environmental air. The air-handling space

National Electrical Code Handbook 2014 21

laminaires, motors, controllers, motor control centers, and similar equipment.

Informational Note: Power sources include, but are not limited to, interconnected or stand-alone batteries, solar photovoltaic systems, other distributed generation systems, or generators.

For this edition, a new informational note was added to clarify what a premises wiring system is. A premises wiring system does not have to be supplied by an electric utility. For example, portable generators and stand-alone photovoltaic systems can supply premises wiring systems. If there is no service point, there are no service conductors. The supply conductors are feeder conductors.

Qualified Person. One who has skills and knowledge related to the construction and operation of the electrical equipment and installations and has received safety training to recognize and avoid the hazards involved.

Informational Note: Refer to NFPA 70E-2012, *Standard for Electrical Safety in the Workplace*, for electrical safety training requirements.

This definition points out that safety training that qualifies a worker is training in hazard recognition and avoidance. See 110.6 in NFPA 70®, *Standard for Electrical Safety in the Workplace®*, for the training requirements for qualified and unqualified persons who may be exposed to electrical hazards.

Raceway. An enclosed channel of metallic or nonmetallic materials designed expressly for holding wires, cables, or busbars, with additional functions as permitted in this Code.

Cable trays (see Article 392) are support systems for wiring methods and are not considered to be raceways.

Informational Note: A raceway is identified within specific article definitions.

Rainproof. Constructed, protected, or treated so as to prevent rain from interfering with the successful operation of the apparatus under specified test conditions.

13 NEC ELECTRICAL ROOM PIPING CLEARANCE REQUIREMENTS

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SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT
SAN LUIS OBISPO HIGH SCHOOL
1489 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401

NEW CLASSROOM BUILDING &RELOCATION OF MODULAR RESTROOM

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELLAGA STREET SANTA BARBARA CA 93101
TELEPHONE (805) 963-1726 FAX (805) 963-2951
JOE S. WILCOX AIA
PRINCIPAL-IN-CHARGE
PATRICK B. PANLAQUI
PROJECT MANAGER

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ENGINEER'S STAMP & SIGNATURE
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REGISTERED PROFESSIONAL ENGINEER DONNON RODGERS M 33668 Exp 6/30/27 MECHANICAL STATE OF CALIFORNIA
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SHEET M-020

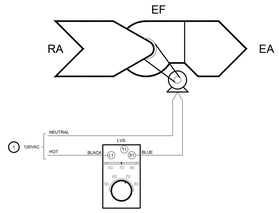
GENERAL NOTES

1. Line voltage wiring and conduit by Division 26.
2. Low voltage daisy chain wiring and conduit by Division 23.
3. Panels shall all be UL Listed.
4. Refer to Specification Section 230500 HVAC CONTROLS for further requirements.

CONTROLS TO BE JOHNSON CONTROLS
CONTACT DEVEN PUTNAM:
TOTAL CONTROL
A DIVISION OF RSD
5920 E. SHIELDS AVE. #101
FRESNO, CA 93727
(559) 291-1000
dputnam@rsd.net

Exhaust Fan Control

Line voltage thermostats to be set to energize fan on a temperature rise of 80° F.

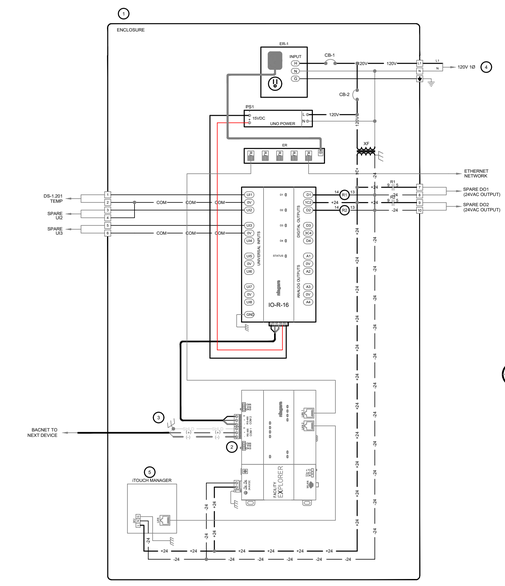


1/4 EXHAUST FAN CONTROL DETAIL
CEF-1.201

Sheet Notes	
1	LINE VOLTAGE & CONDUIT BY DIVISION 16.
2	CONTROL COMPONENTS PROVIDED BY TOTAL CONTROL CONTACT DEVEN PUTNAM AT 559-291-1000.

Control Components			
PART NUMBER	TAG	QTY	DESCRIPTION
HON T651A3018/U	LVS	1	LINE VOLTAGE THERMOSTAT

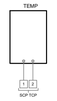
4



1/2 SUPERVISORY SCP SCHEMATIC DETAIL

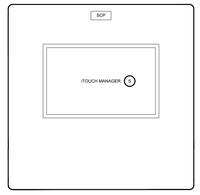
Panel Components			
PART NUMBER	TAG	QTY	DESCRIPTION
JCI FX-SCBBASE-0	FX	1	FX-80 CONTROLLER SD CARD
JCI FX-SCBCL100-0		1	CORE - FIELD DEVICE LICENSE FOR 100 DEVICES
JCI FX-SCBO100M1-0		1	INITIAL 1 YEAR 100 DEVICE LICENSE
JC IO-IR-16	IO	1	16 POINT REMOTE INPUT/OUTPUT EXPANSION
LEC 17550	XF	1	120 - 24V TRANSFORMER
AB 1489-M1C150	CB-1	1	MANUAL RESET 15.0 AMP CIRCUIT BREAKER
AB 1489-M1C020	CB-2	1	MANUAL RESET 2.0 AMP CIRCUIT BREAKER
HOFF A24240ELP	ENC	1	NEMA-12
HOFF A24P24	ENC	1	PANEL BACKPLATE
AB 1492-REC15	ER-1	1	ELECTRICAL OUTLET
RLY 782XBXM4L-24A	R1-R2	2	2-POLE 24VAC RELAY WILED
RLY 70-782D8-1A	R1-R2	2	2-POLE RELAY BASE
PHO 2903000	PS-1	1	15VDC POWER SUPPLY
UBN ER-X	ER	1	EDGE ROUTER

Control Components			
PART NUMBER	TAG	QTY	DESCRIPTION
ACI A10K-ISP	TEMP	1	10K WALL PLATE SENSOR



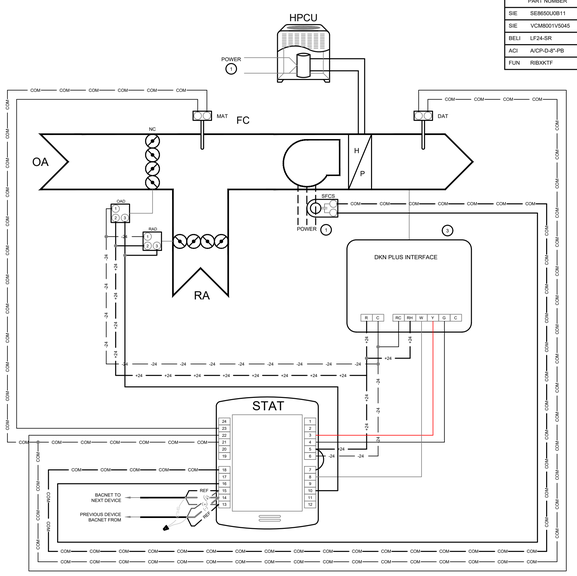
3/2 SPLIT SYSTEM TEMP DETAIL
DS-1.201

Sheet Notes	
1	CONTROL PANEL FABRICATED BY TOTAL CONTROL CONTACT DEVEN PUTNAM AT 559-291-1000
2	JACE SELECTOR SWITCH NEED TO BE SET TO THE "END" POSITION
3	RS-485 COMM BUS SHIELD TO BE GROUNDED AT THE SCP PANEL ONLY
4	LINE VOLTAGE & CONDUIT BY DIVISION 16
5	ITOUCH MANAGER PROVIDED BY OTHERS AND MOUNTED ON SCP PANEL DOOR.



2/2 PANEL DOOR LAYOUT

2



Control Components			
PART NUMBER	TAG	QTY	DESCRIPTION
SIE SEB650U0B11	STAT	7	BACNET THERMOSTAT
SIE VCM8001V5045	CO2	7	CO2 SENSOR MODULE
BELI LF24-SR	OAD/RAD	14	SPRING RETURN DAMPER ACTUATOR
ACI A/CP-D-8"-PB	DAT.MAT	14	10K TYPE 2 DUCT TEMPERATURE SENSOR
FUN RIBXKTF	SFCS	7	CURRENT SENSOR

Sheet Notes	
1	LINE VOLTAGE & CONDUIT BY DIVISION 16.
2	24VAC THERMOSTAT ADAPTER SUPPLIED BY OTHERS.
3	CONTROL COMPONENTS PROVIDED BY TOTAL CONTROL CONTACT DEVEN PUTNAM AT 559-291-1000.

Fan Coil

A thermostat shall be mounted in the space.

Occupied Cool Setpoint: 74°F (adjustable)

Occupied Heat Setpoint: 70°F (adjustable)

Warm/Cool Adjustment: +3°/-3°

Unoccupied Mode: The unit shall remain OFF in unoccupied mode.

Occupied Mode: The unit shall receive an occupied command from the Johnson FX Supervisory controller. The supply fan will be enabled. A current sensor on the supply fan shall prove supply fan run status. When the run status is proven ON, the following modes shall be allowed to happen.

Cooling Mode: When outside air is above the OA cooling lockout setpoint (65° F adjustable) and there is a call for cooling, mechanical cooling shall stage on in order to satisfy the condition.

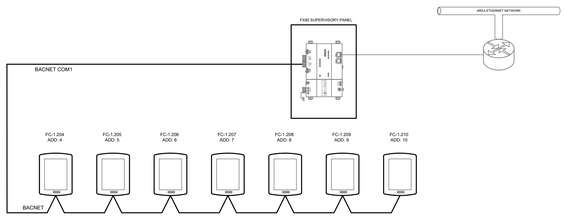
Economizer Mode: If there is a demand for cooling and outside air is 6 degrees less that room temperature (adjustable from SCP) then the economizer shall modulate open, return modulate close as needed to satisfy the condition. Discharge air temperature shall close economizer down should discharged drop below 55 degrees. If unit is not in economizer mode the economizer shall be at minimum position.

Heating Mode: When outside air is below the OA heating lockout setpoint (60° F adjustable) and there is a call for heating, mechanical heating shall stage on in order to satisfy the condition.

DVC Mode: If CO2 level in space rises above 800 PPM (adj.), the economizer shall modulate open as needed to satisfy demand. Damper is at minimum position any other time.

3 1/3 FAN COIL CONTROL DETAIL
TYPICAL OF 7: FC-1.204, FC-1.205, FC-1.206, FC-1.207, FC-1.208, FC-1.209, FC-1.210

1



1/1 LAN ARCHITECTURE

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NEW CLASSROOM BUILDING
&RELOCATION OF MODULAR RESTROOM

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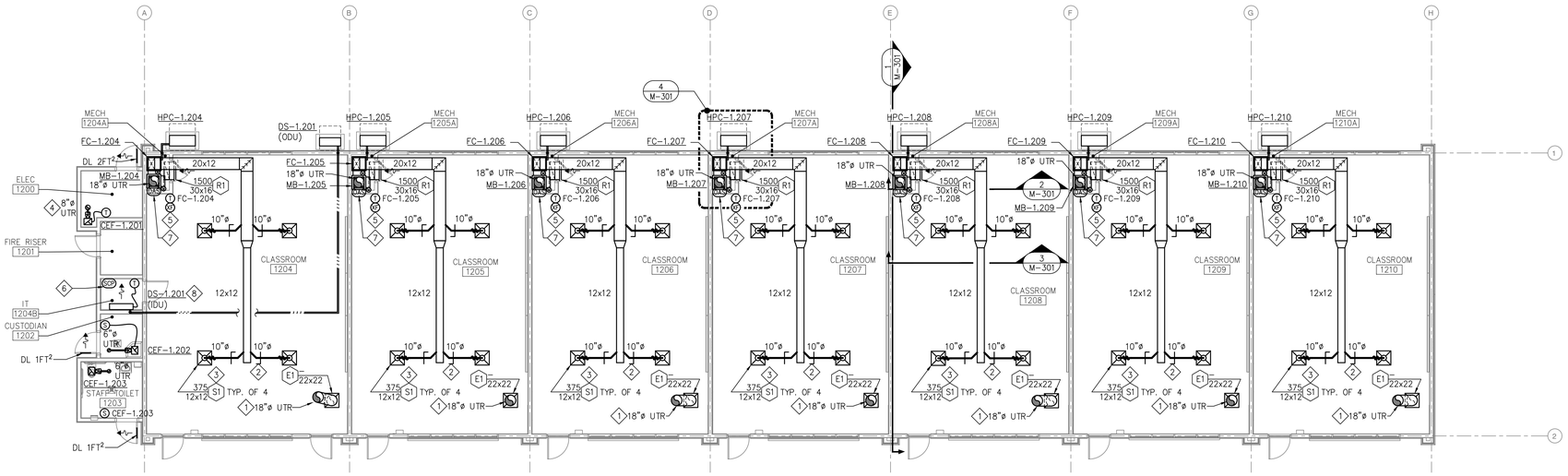
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SHEET M-021



MECHANICAL FLOOR PLAN

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

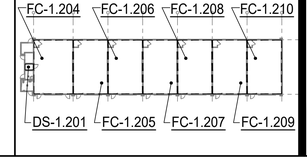
GENERAL NOTES

1. Routing and layout of refrigeration lines shown are diagrammatic in nature. The installing contractor shall coordinate routing/branching of all linesets with the equipment manufacturer to ensure that all installation and sizing criteria are followed. Refer to 6/M-020 for pipe supports. Refer to 3/M-020 for refrigeration pipes thru exterior wall.
2. Protect exposed refrigerant lines with linset ducting.
3. Refer to detail 10/M-020 for thermostat mounting requirements.

REFERENCE NOTES

1. Barometric relief damper:
   - Model to be Greenheck BR-30.
   - Properly sized for duct, set to open at 0.05 in. of W.C.
   - Locate on relief duct.
2. Typical volume damper. Refer to 15/M-020
3. Typical diffuser connection. Refer to 5/M-020
4. Coordinate piping run with electrical for code compliant condition per CEC required clearances to electrical equipment and panels. Refer to detail 14/M-020 for NEC requirements.
5. Control transformer provided by Controls Contractor. Provide 120V control circuit. Refer to control detail 3/M-021
6. Supervisory Control Panel
   - Supervisory Control Panel (SCP): Room 1204B.
   - Refer to control detail 1/M-021 and 2/M-021
7. Outside air sensor located in OA duct and wired back to building Supervisory Control Panel/Router.
8. High wall ductless split fan coil
   - Gravity drain condensate. Refer to 2/P-201.
   - Provide with overflow switch.

ZONE PLAN



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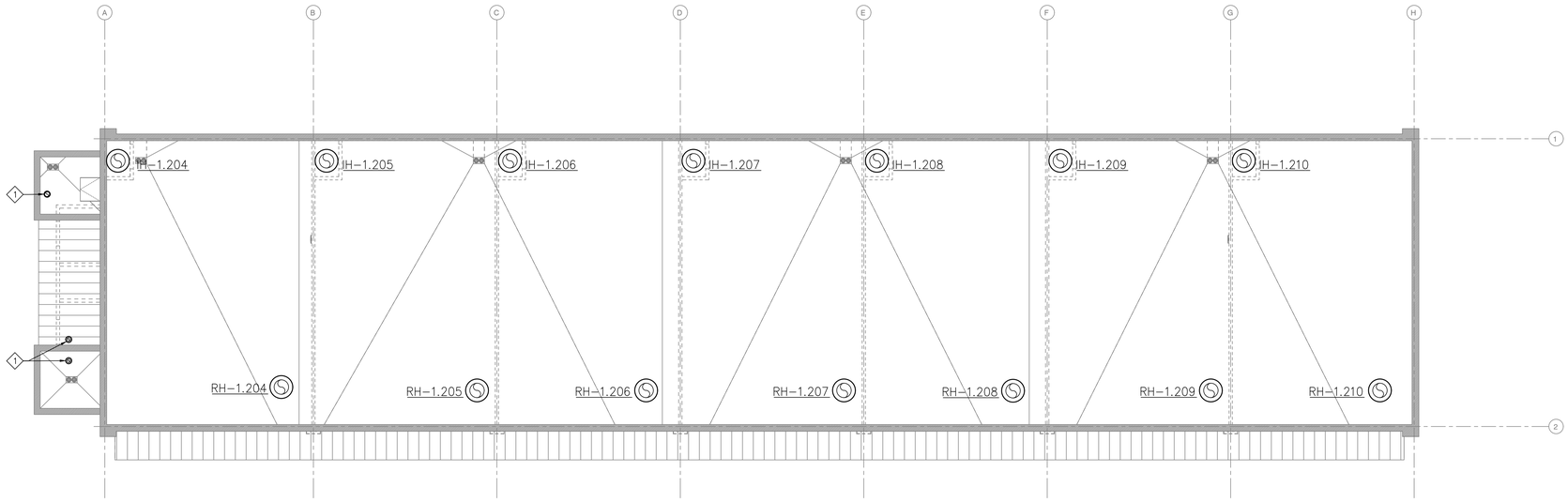
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SHEET TITLE MECHANICAL FLOOR PLAN

SHEET M-200

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MECHANICAL ROOF PLAN

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

GENERAL NOTES

REFERENCE NOTES

1. Typical roof cap. Refer to 12/M-020.

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ENGINEER'S STAMP & SIGNATURE

REGISTERED PROFESSIONAL ENGINEER BRENDON ROBISON No. M 33482 Exp 6/30/27 MECHANICAL STATE OF CALIFORNIA

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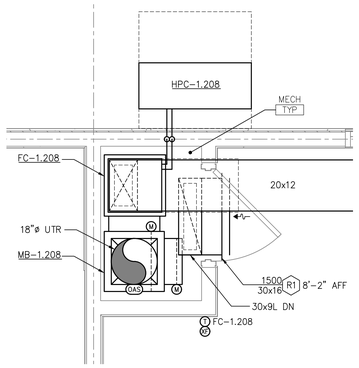
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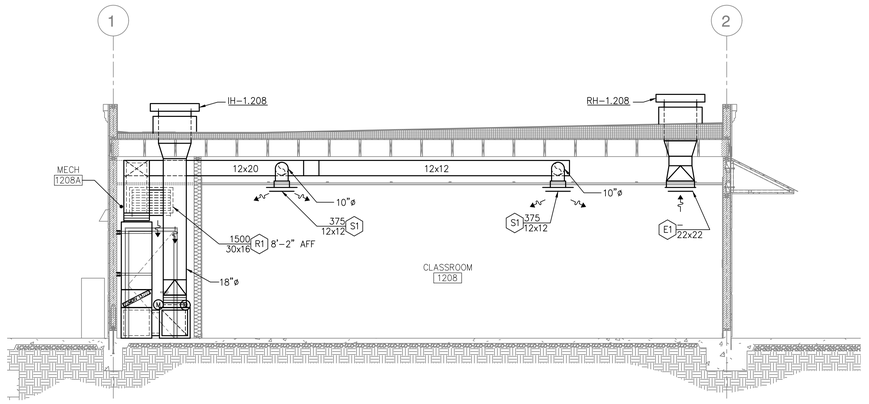
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SHEET M-201

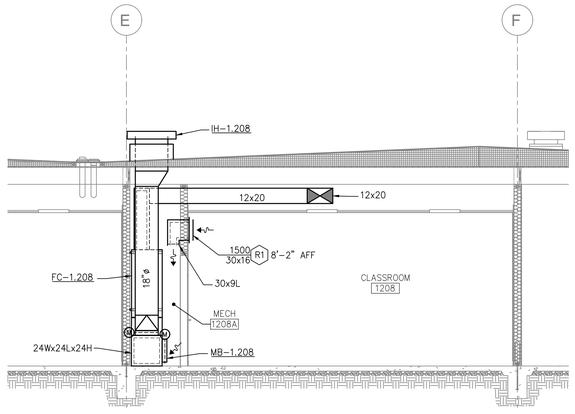
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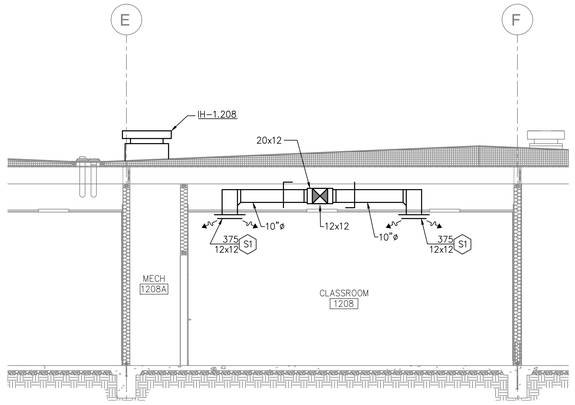
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SCALE: 1/2"=1'-0"



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



2 MECHANICAL SECTION
SCALE: 1/4"=1'-0"



3 MECHANICAL SECTION
SCALE: 1/4"=1'-0"

GENERAL NOTES

REFERENCE NOTES

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PATRICK B. PANLAGUI
PROJECT MANAGER

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ARCHITECT'S STAMP & SIGNATURE



ENGINEER'S STAMP & SIGNATURE



CONSULTANT INFORMATION

REVISION	DESCRIPTION	DATE	BY
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3			
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DRAWN KH
CHECKED BB
DATE 06/01/26
JOB. NO. 24010

SHEET TITLE MECHANICAL SECTIONS & ENLARGED PLANS

SHEET M-301

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NONRESIDENTIAL/MULTIFAMILY T24 ENVELOPE MANDATORY MEASURES

(All Section Numbers Are From 2022 Building Energy Efficiency Standards Title 24, Part 6.)

Mandatory measures in Sections 110.6–110.8, 120.7 and 160.1 apply to all multifamily nonresidential buildings, whether the designer chooses the prescriptive or performance approach to compliance. Mandatory measures by code section are as follows:

1. 110.6 REQUIREMENTS FOR FENESTRATION PRODUCTS AND EXTERIOR DOORS. All fenestration products and exterior doors shall meet the applicable requirements of section 110.6.
2. 110.7 REQUIREMENTS TO LIMIT AIR LEAKAGE. All joints, penetrations and other openings in the building envelope that are potential sources of air leakage shall be caulked, gasketed, weather–stripped or otherwise sealed to limit infiltration and exfiltration.
3. 110.8 REQUIREMENTS FOR INSULATION, ROOFING PRODUCTS AND RADIANT BARRIERS. All Insulation, Roofing Products and Radiant Barriers shall meet the requirements listed in Sections 110.8
4. 120.7 INSULATION REQUIREMENTS. Nonresidential, high–rise residential, and hotel–motel buildings shall comply with the applicable requirements in sections 120.7(a) through 120.7(c). The opaque portions of walls that separate conditioned spaces from unconditioned or ambient air shall meet the insulation requirements listed in Section 120.7(b)7.
5. 160.1 REQUIREMENTS FOR MULTIFAMILY BUILDING ENVELOPES. All multifamily nonresidential buildings are required to comply with the applicable envelope requirements in sections 160.1(a) through (f).

I1. WATER HEATER EQUIPMENT SUMMARY

01 Name	02 Heater Element Type	03 Tank Type	04 Qty	05 Tank Vol (gal)	06 Rated Input	07 Rated Input Unit	08 Efficiency	09 Efficiency Unit	10 Tank Insulation R-value Int/Ext	11 Standby Loss Fraction	12 1st Hr. Rating or Flow Rate (gal)	13 Heat Pump Type	14 Tank Location or Ambient Condition
LE11OU3-12	Electricity	Storage	1	10	1.5	kW	0.92	EF	N/A	N/A	N/A	N/A	N/A

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Envelope	NRCI-ENV-E - Envelope (for all buildings)
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems
Plumbing	NRCI-PLB-01-E - Must be submitted for all buildings
Plumbing	NRCI-PLB-E - For all buildings with Plumbing Systems

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component	Form/Title & System Name(s)
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Mechanical	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
	HPC-1.204, HPC-1.205, HPC-1.206, HPC-1.207, HPC-1.208, HPC-1.209 and HPC-1.210., DS-1.201
Mechanical	NRCA-MCH-03-A - Constant Volume Single Zone HVAC
	HPC-1.204, HPC-1.205, HPC-1.206, HPC-1.207, HPC-1.208, HPC-1.209 and HPC-1.210., DS-1.201

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01 Equipment Name	02 Equipment Type	03 Qty	04 Heating: Total Heating Output (kBtu/h)	05 Heating: Supp Heat Output (kBtu/h)	06 Heating: Efficiency Unit	07 Heating: Efficiency	08 Cooling: Total Cooling Output (kBtu/h)	09 Cooling: Efficiency Unit	10 Cooling: Efficiency	11 Economizer Type (if present)	12 Status[1]
HPC-1.205	Single Zone Heat Pump (SZHP) Air System	1	54.16	0	COP HSPF2	3.75 8.5	43.69	EER2 SEER2	9 16	Fixed DB	N
HPC-1.206	Single Zone Heat Pump (SZHP) Air System	1	54.16	0	COP HSPF2	3.75 8.5	43.69	EER2 SEER2	9 16	Fixed DB	N
HPC-1.207	Single Zone Heat Pump (SZHP) Air System	1	54.16	0	COP HSPF2	3.75 8.5	43.69	EER2 SEER2	9 16	Fixed DB	N
HPC-1.208	Single Zone Heat Pump (SZHP) Air System	1	54.16	0	COP HSPF2	3.75 8.5	43.69	EER2 SEER2	9 16	Fixed DB	N
HPC-1.209	Single Zone Heat Pump (SZHP) Air System	1	54.16	0	COP HSPF2	3.75 8.5	43.69	EER2 SEER2	9 16	Fixed DB	N
HPC-1.210	Single Zone Heat Pump (SZHP) Air System	1	54.16	0	COP HSPF2	3.75 8.5	43.69	EER2 SEER2	9 16	Fixed DB	N
DS-1.201	MiniSplit HP	1	22.5	0	COP HSPF2	4.1 9.6	17.38	EER2 SEER2	12 21	N/A	N

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

C7. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	3.7	1.9	1.8	---	---	---
Space Cooling	7.8	4.4	3.4	---	---	---
Indoor Fans	26.8	20.3	6.5	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	8.6	7.1	1.5	---	---	---
Indoor Lighting	9	9	0	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**55.9**	**42.7**	**13.2**	**0**	**0**	**0**
Photovoltaics	-15.6	---	---	---	---	---
Batteries	0.2	---	---	---	---	---
ENERGY USE SUBTOTAL	**40.5**	**42.7**	**-2.2**	**0**	**0**	**0**
Receptacle	20.6	20.6	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	**61.1**	**63.3**	**-2.2**	**0**	**0**	**0**

C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)

Energy Component	COMPLIES[1] Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[2]
Space Heating	19.24	9.6	9.64
Space Cooling	24.93	14.82	10.11
Indoor Fans	101.87	77.11	24.76
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	28.49	27.39	1.1
Indoor Lighting	31.78	31.78	0
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**206.31**	**160.7**	**45.61 (22.1%)**
Photovoltaics	-39.86	---	-39.86
Batteries	-4.26	---	-4.26
TOTAL COMPLIANCE	**162.19**	**160.7**	**1.49 (0.9%)**

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

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01 Zone Name	02 Mechanical Ventilation: Ventilation Function	03 Mechanical Ventilation: # of People	04 Mechanical Ventilation: Supply OA CFM	05 Mechanical Ventilation: Exhaust CFM	06 Conditioned Area (sf)	07 DCV or Occupant Sensor Controls, or Both
6-FC-1.208	Education - Classrooms (ages 5-8) General - Unoccupied	25.42	385.96	0	1037.55	DCV
7-FC-1.209	Education - Classrooms (ages 5-8) General - Unoccupied	25.42	385.82	0	1037.21	DCV
8-FC-1.210	Education - Classrooms (ages 5-8) General - Unoccupied	25.74	390.71	0	1050.01	DCV
9-OS-1.201	General - Unoccupied	0.05	0	0	34.28	N/A

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01 System ID	02 System Type	03 Qty	04 Rated Capacity (kBtu/h): Heating	05 Rated Capacity (kBtu/h): Cooling	06 Airflow (cfm): Design	07 Airflow (cfm): Min.	08 Airflow (cfm): Min. Ratio	09 Fan: Power	10 Fan: Power Units	11 Fan: Cycles	12 VSD
1-FC-1.204-Trm	Uncontrolled	1	N/A	N/A	1,500	N/A	0	N/A	N/A	N/A	☐
3-FC-1.205-Trm	Uncontrolled	1	N/A	N/A	1,500	N/A	0	N/A	N/A	N/A	☐
4-FC-1.206-Trm	Uncontrolled	1	N/A	N/A	1,500	N/A	0	N/A	N/A	N/A	☐
5-FC-1.207-Trm	Uncontrolled	1	N/A	N/A	1,500	N/A	0	N/A	N/A	N/A	☐
6-FC-1.208-Trm	Uncontrolled	1	N/A	N/A	1,500	N/A	0	N/A	N/A	N/A	☐
7-FC-1.209-Trm	Uncontrolled	1	N/A	N/A	1,500	N/A	0	N/A	N/A	N/A	☐
8-FC-1.210-Trm	Uncontrolled	1	N/A	N/A	1,500	N/A	0	N/A	N/A	N/A	☐
DS-1.201	MiniSplit HP	1	22.5	17.38	605	N/A	N/A	0.04	BHP	Continuous	☐

G6A. OPAQUE DOOR SUMMARY (NONRESIDENTIAL)

01 Assembly Name	02 Area (ft²)	03 Overall U-factor	04 Status[1]
Metal Door10	252	0.7	N

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

G7A. FENESTRATION ASSEMBLY SUMMARY (NONRESIDENTIAL)

01 Fenestration Assembly Name	02 Fenestration Type/ Product Type / Frame Type	03 Certification Method[1]	04 Assembly Method	05 Area (ft²)	06 Overall U-factor	07 Overall SHGC	08 Overall VT	09 Status[2]
Prescriptive Fixed Window	Vertical fenestration Fixed window N/A	NFRC	Site built	1,140	0.36	0.25	0.5	N

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

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01 Equipment Name	02 Equipment Type	03 Qty	04 Heating: Total Heating Output (kBtu/h)	05 Heating: Supp Heat Output (kBtu/h)	06 Heating: Efficiency Unit	07 Heating: Efficiency	08 Cooling: Total Cooling Output (kBtu/h)	09 Cooling: Efficiency Unit	10 Cooling: Efficiency	11 Economizer Type (if present)	12 Status[1]
HPC-1.204	Single Zone Heat Pump (SZHP) Air System	1	54.16	0	COP HSPF2	3.75 8.5	43.69	EER2 SEER2	9 16	Fixed DB	N

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

C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Receptacle	5.17	5.17	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**10.54**	**10.56**	**0.98 (5%)**

[1] *Notes: This table is not used for Energy Code Compliance.*

C6. 'ABOVE CODE' QUALIFICATIONS

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

C1. COMPLIANCE SUMMARY

	COMPLIES[1] Time Dependent Valuation (TDV) Efficiency[2] (kBtu/ft² - yr)	Time Dependent Valuation (TDV) Total[2] (kBtu/ft² - yr)	Source Energy Use Total[2] (kBtu/ft² - yr)
Standard Design	206.31	162.19	14.37
Proposed Design	160.7	160.7	13.39
Compliance Margins	**45.61**	**1.49**	**0.98**
	Pass	**Pass**	**Pass**

[1] *Efficiency measures include improvements like a better building envelope and more efficient equipment*
[2] *Compliance Totals include efficiency, photovoltaics and batteries*
[3] *New Construction, Complete Addition Scope: Building complies when all efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded*
Existing, Addition and Alteration Scope: Building complies when efficiency compliance margin is greater than or equal to zero and unmet load hour limits are not exceeded

H8. SYSTEM SPECIAL FEATURES

01 System Name	02 Equipment Type	03 Interlocks per 140.4(o)[1]	04 Other Special Features and Controls
HPC-1.208	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Fixed DB
HPC-1.209	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Fixed DB
HPC-1.210	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Fixed DB
WH-11 - SHW	Service Hot Water	N/A	Fixed Temperature Control

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

[1] *Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.*

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01 Zone Name	02 Mechanical Ventilation: Ventilation Function	03 Mechanical Ventilation: # of People	04 Mechanical Ventilation: Supply OA CFM	05 Mechanical Ventilation: Exhaust CFM	06 Conditioned Area (sf)	07 DCV or Occupant Sensor Controls, or Both
1-FC-1.204	Education - Classrooms (ages 5-8) General - Unoccupied	28.06	426.06	0	1139.04	DCV
3-FC-1.205	Education - Classrooms (ages 5-8) General - Unoccupied	25.42	385.82	0	1037.21	DCV
4-FC-1.206	Education - Classrooms (ages 5-8) General - Unoccupied	25.42	385.82	0	1037.21	DCV
5-FC-1.207	Education - Classrooms (ages 5-8) General - Unoccupied	25.41	385.69	0	1036.87	DCV

G4. NONRESIDENTIAL AIR BARRIER

01 Building Story Name	02 Air Barrier
Com-Floor 1	No air barrier

G5. OPAQUE SURFACE ASSEMBLY SUMMARY

01 Surface Name	02 Construction Type	03 Area (ft²)	04 Framing Type	05 Cavity R-Value	06 Continuous R-Value: Interior	06 Continuous R-Value: Exterior	07 Units	08 Value	09 Description of Assembly Layers	10 Status[1]
R-21 Wall8	Exterior Wall	6,501.61	Wood	21	N/A	N/A	U-factor	0.0691	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Composite-1 Gypsum Board - 1/2 in.	N
Demising R-21 Wall18	Interior Wall	358.83	Wood	21	N/A	N/A	U-factor	0.0641	Gypsum Board - 5/8 in. Composite-2 Gypsum Board - 1/2 in.	N
Interior R-0 Wall21	Interior Wall	4,691.89	N/A	0	N/A	N/A	U-factor	0.3145	Gypsum Board - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Gypsum Board - 1/2 in.	N
Slab On Grade27	Underground Floor	7,656.35	N/A	0	N/A	N/A	F-factor	0.73	Slab Type =Unheated slab on grade Insulation Orientation =None Insulation R-Value =none	N
R-35 Roof Rafter w/ Taper29	Roof	7,658.31	N/A	0	N/A	34.92	U-factor	0.0273	Single Ply Roofing - 1/4 in. Fiber cement board - 88 lb/ft3 - 1/2 in. Expanded Polystyrene - EPS - 8 3/5 in. R35 Plywood - 1/2 in.	N

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

C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft² /yr)

Energy Component	COMPLIES[2] Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Space Heating	2.32	1.21	1.11
Space Cooling	0.96	0.55	0.41
Indoor Fans	8.63	6.56	2.07
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	2.3	2.52	-0.22
Indoor Lighting	2.55	2.55	0
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**16.76**	**13.39**	**3.37 (20.1%)**
Photovoltaics	-1.62	---	-1.62
Batteries	-0.77	---	-0.77
TOTAL COMPLIANCE	**14.37**	**13.39**	**0.98 (6.8%)**

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

B. PROJECT SUMMARY

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

Building Components Complying via Performance			Building Components Complying Prescriptively		
Envelope (See Table G)	Nonres / MultiFam	Performance / Not Included	Solar Thermal Water Heating (See Table I3)	☐ Performance / ☒ Not Included	The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).
Mechanical (See Table H)	Nonres / MultiFam	Performance / Not Included	Covered Process: Commercial Kitchens (see Table I)	☐ Performance / ☒ Not Included	Indoor Lighting (Unconditioned) 140.6 & 170.2(e) / NRCC-LTI-E is required
					Outdoor Lighting 140.7 & 170.2(e) / NRCC-LTI-E is required
Domestic Hot Water (See Table I)	Nonres / MultiFam	Performance / Not Included	Covered Process: Laboratory Exhaust (see Table J)	☐ Performance / ☒ Not Included	Sign Lighting 140.8 & 170.2(e) / NRCC-LTS-E is required
					Building Components Complying with Mandatory Measures
Lighting (Indoor Conditioned, see Table K)	Nonres / MultiFam	Not Included	Photovoltaics (see Table F)	☐ Performance / ☒ Not Included	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)
					Electrical Power Distribution 110.11 / NRCC-ELC-E is required
			Battery (see Table F)	☐ Performance / ☒ Not Included	Commissioning 120.8 / NRCC-CXR-E is required
					Solar and Battery 110.10 / NRCC-SAB-E is required

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01 Name or Item Tag	02 Qty	03 Design OA CFM	04 Supply Fan: CFM	05 Supply Fan: Power	06 Supply Fan: Power Units	07 Supply Fan: Control	08 Return / Relief Fan	09 Return / Relief Fan: CFM	10 Return / Relief Fan: Power	11 Return / Relief Fan: Power Units	12 Return / Relief Fan: Control	13 Status[1]
HPC-1.204	1	426.06	1,500	0.75	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
HPC-1.205	1	385.82	1,500	0.75	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
HPC-1.206	1	385.82	1,500	0.75	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
HPC-1.207	1	385.69	1,500	0.75	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
HPC-1.208	1	385.96	1,500	0.75	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
HPC-1.209	1	385.82	1,500	0.75	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
HPC-1.210	1	390.71	1,500	0.75	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
DS-1.201	1	0	605	0.04	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

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

H8. SYSTEM SPECIAL FEATURES

01 System Name	02 Equipment Type	03 Interlocks per 140.4(o)[1]	04 Other Special Features and Controls
HPC-1.204	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Fixed DB
HPC-1.205	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Fixed DB
HPC-1.206	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Fixed DB
HPC-1.207	Single Zone Heat Pump (SZHP) Air System	N/A	Zone(s) With CO2 Sensor Vent. Control Fixed DB

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

[1] *Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.*

C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft² / yr)	Proposed Design (kBtu/ft² / yr)	Margin (kBtu/ft² / yr)	Margin Percentage
GROSS EUI[1]	34.18	28.21	5.97	17.47
NET EUI[1]	27.23	28.21	-0.98	-3.6

[1] *Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.*

D3. EXCEPTIONAL CONDITIONS

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

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01 Opaque Surfaces & Orientation	02 Total Gross Surface Area (ft²)	03 Total fenestration Area (ft²)	04 Window to Wall Ratio (%)
North-Facing[1]	569.85	0	0
East-Facing[2]	2558.88	594	23.21
South-Facing[3]	174.08	0	0
West-Facing[4]	2558.7	546	21.34
Total	**5861.52**	**1140**	**19.45**
Roof	7411.49	0	0

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

C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	68.6	68.6	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**230.79**	**229.3**	**1.49 (0.6%)**

[1] *Notes: This table is not used for Energy Code Compliance.*

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD — NRC

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	**(Page 18 of 18)**

Documentation Author's Declaration Statement

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

Documentation Author Name: Dustin Lane	Documentation Author Signature:
Company: BMA Mechanical+	Signature Date: 08/01/2025
Address: 689 Tank Farm Rd. STE 240	CEA/HERS Certification Identification (if applicable):
City/State/Zip: San Luis Obispo CA 93401	Phone: 805-544-4269

Responsible Person's Declaration statement

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

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

Responsible Designer Name: Brandon Rodgers	Responsible Designer Signature:	
Company: BMA Mechanical+		
Address: 689 Tank Farm Rd. Suite 240	Date Signed: 08/01/2025	
City/State/Zip: San Luis Obispo, CA 93401	License #: M33682	
Phone: (805) 544-4269	Title: M33682	Scope: Mechanical

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	**(Page 17 of 18)**

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component	Form/Title & System Name(s)
Mechanical	NRCA-MCH-05-A - Air Economizer Controls
	HPC-1.204, HPC-1.205, HPC-1.206, HPC-1.207, HPC-1.208, HPC-1.209 and HPC-1.210.
Mechanical	NRCA-MCH-06-A Demand Control Ventilation Systems must be submitted for all systems required to employ demand controlled ventilation (refer to) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.
	HPC-1.204, HPC-1.205, HPC-1.206, HPC-1.207, HPC-1.208, HPC-1.209 and HPC-1.210.
Mechanical	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units
	HPC-1.204, HPC-1.205, HPC-1.206, HPC-1.207, HPC-1.208, HPC-1.209 and HPC-1.210.

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

There are no Certificates of Verification applicable to this project

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125456 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026

SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT
SAN LUIS OBISPO HIGH SCHOOL
1499 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401

NEW CLASSROOM BUILDING &RELOCATION OF MODULAR RESTROOM

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELLAGA STREET SANTA BARBARA CA 93101
TELEPHONE (805) 963-1726 FAX (805) 963-2951

JOE S. WILCOX AIA
PRINCIPAL-IN-CHARGE

PATRICK B. PANLAQUI
PROJECT MANAGER

All ideas, design arrangements and plans indicated or represented by this drawing are owned by and are the property of Kruger-Bensen-Zierner, AIA architects, and were created, evolved and developed for use on, and in connection with, the specified projects. None of such ideas, designs, arrangements or plans shall be used by or disclosed to any person, firm or corporation for any purpose whatsoever without the written permission of Kruger-Bensen-Zierner.

ARCHITECT'S STAMP & SIGNATURE



ENGINEER'S STAMP & SIGNATURE



CONSULTANT INFORMATION

REVISION	DESCRIPTION	DATE	BY
5			
4			
3			
2			
1			

DRAWN DL
CHECKED DL
DATE 06/01/26
JOB. NO. 24010

SHEET TITLE ENERGY COMPLIANCE

SHEET En1.1

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STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	LMCC-CXR-01-E
Project Name: SLOHS New Classroom Building	**Report Page:** (Page 8 of 8)
Project Address:	**Date Prepared:**

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Dustin Lane	Documentation Author Signature:
Company: BMA Mechanical*	Signature Date: 08/01/2025
Address: 689 Tank Farm Rd. STE 240	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: San Luis Obispo CA 93401	Phone: 805-544-4269

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Designer Name: Brandon Rodgers	Responsible Designer Signature:
Company: BMA Mechanical*	Date Signed: 08/01/2025
Address: 689 Tank Farm Rd. STE 240	License: M33902
City/State/Zip: San Luis Obispo CA 93401	Phone: 805-544-4269

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	LMCC-CXR-01-E
Project Name: SLOHS New Classroom Building	**Report Page:** (Page 4 of 8)
	Date Prepared:

F. DESIGN REVIEW KICKOFF MEETING

11	Desired Building Lifespan	The district anticipates a standard building service life, with design decisions guided by typical lifecycle expectations for educational facilities. Systems and materials will be selected to support long-term reliability and code-compliant performance over a conventional 30- to 50-year building lifespan.
12	Equipment Lifecycle	The district maintains standard expectations for the lifecycle of building systems and equipment. Design selections will align with typical industry service life benchmarks, prioritizing proven technologies that offer reliable performance and maintainability over their expected operational lifespan.
13	Project Energy Efficiency Goals	The district has not established specific energy efficiency targets, such as Energy Use Intensity (EUI), beyond meeting current code minimums. The design will comply with applicable energy codes and standards, with no additional performance thresholds identified at this time.
14	Envelope Goals	The building's roof, walls, windows, and floors have been designed to meet current code minimum requirements for thermal performance. No additional energy efficiency goals or enhancements beyond code compliance have been established by the district for these envelope components.
15	HVAC System Goals	The district has not provided specific requirements for heating and cooling systems, including occupancy schedules, setpoint overrides, occupant control capabilities, special ventilation needs, or preferred energy efficiency strategies. As a result, the design follows standard practices and applicable code requirements for educational facilities, with typical control sequences and system capabilities.
16	Indoor Lighting System Goals	The district has not identified any specific goals related to the building's indoor lighting systems beyond meeting applicable code requirements. The design follows standard practice, incorporating code-compliant lighting layouts, controls, and efficiency measures appropriate for educational use.
17	Outdoor Lighting System Goals	The district has not established specific goals for the building's outdoor lighting systems beyond compliance with applicable code requirements. The design includes standard lighting levels and control strategies appropriate for safety, security, and code-required energy performance.
18	Water Heating System Goals	The district has not identified any specific goals for the building's water heating systems beyond compliance with applicable code requirements. System design is based on standard practice for educational facilities and meets current energy efficiency and performance standards.
19	Equipment and System Specifications	The district has no stated preferences regarding equipment type, manufacturer, or enhanced energy performance. Equipment selections will prioritize commonly accepted systems that meet current code requirements, with standard levels of quality and reliability appropriate for typical educational facility applications.
20	Operations and Maintenance	The design reflected in the contract documents meets all owner requirements identified at the design review kickoff and, where applicable, aligns with the Basis of Design for systems outside of the envelope, lighting, HVAC, and water heating. No issues were identified during the design review that required resolution.

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	LMCC-CXR-01-E
Project Name: SLOHS New Classroom Building	**Report Page:** (Page 7 of 8)
	Date Prepared:

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

There are no forms required for this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	LMCC-CXR-01-E
Project Name: SLOHS New Classroom Building	**Report Page:** (Page 3 of 8)
	Date Prepared:

F. DESIGN REVIEW KICKOFF MEETING

This table indicates that the design reviewer meets the qualification requirements per Title 24, Part 1 Section 10-103(a)1 and demonstrates compliance with design review kickoff requirements per 120.8(d)2. This meeting should occur during the Schematic Design phase of the project.

Design Review Kickoff Meeting Details

01	Date of Design Review Kickoff Meeting			2025-01-14
02	Meeting Attendees: (one person may play multiple roles)			
☐	Owner/Facility Manager:	☒	Design Reviewer(s):	Brandon Rodgers -BMA
☒	Project Manager: Rick Sawyer -BMA	☒	Design Architect/ Engineer(s):	Joe Wilcox -KBZ
☐	Contractor:	☐	Certified Acceptance Test Tech(s):	
☐	Commissioning Provider:	☒	Energy/ T24 Part 6 Consultant:	Dustin Lane -BMA

Design Reviewer Qualifications per Title 24 Part 1 Section 10-103(a)1

The design reviewer(s) must be licensed professional engineers or licensed architects, or licensed contractors representing services performed by or under the direct supervision of a licensed engineer or architect, as specified in the provisions of Division 3 of the Business and Professions Code.		Do the Design Reviewer(s) meet these qualifications?	
03	In addition, for buildings with > 10,000 ft², the design reviewer(s) may be the engineer or architect of record. The design reviewer(s) may also be a qualified in-house engineer or architect with no other project involvement or a third party engineer, architect or contractor.	Yes ●	No ○
04	The design reviewer(s) for this project will be:	Brandon Rogers, PE	

Preliminary Construction Schedule

		Start Date	Completion Date
05	Schematic Design	2024-06-24	2024-12-31
06	Design Development	2025-01-17	2025-03-14
07	Construction Documents	2025-03-14	2025-04-18
08	Construction	2025-10-05	2026-06-05
09	Building Turnover	2026-08-15	2026-08-25

Project Goals Related to Energy Efficiency

10	Operational Costs	The district has not established specific goals related to operational costs; however, the design approach aims to balance first cost and long-term efficiency by incorporating durable, low-maintenance systems where feasible. The intent is to support reliable performance while minimizing future utility and maintenance burdens within available budget constraints.

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	LMCC-CXR-01-E
Project Name: SLOHS New Classroom Building	**Report Page:** (Page 6 of 8)
	Date Prepared:

I. CONSTRUCTION DOCUMENT DESIGN REVIEW CHECKLIST

06	Indoor Lighting Controls Design	The indoor lighting controls design reflected in the contract documents meets the district's requirements as discussed during the design review kickoff and aligns with the Basis of Design where applicable. The controls comply with current energy code requirements, incorporating standard features such as occupancy sensors and daylighting controls. No issues were identified during the design review that required resolution.
07	Outdoor Lighting System and Controls Design	The outdoor lighting design reflected in the contract documents meets the district's requirements as discussed during the design review kickoff and aligns with the Basis of Design where applicable. The design complies with applicable code requirements and provides appropriate illumination levels for safety, security, and site functionality. No issues were identified during the design review that required resolution.
08	Water Heating System Design	The water heating system design reflected in the contract documents meets the district's requirements as discussed during the design review kickoff and aligns with the Basis of Design where applicable. The design complies with current code requirements and reflects standard practice for educational facilities. No issues were identified during the design review that required resolution.
09	Other Systems and Features	The design reflected in the contract documents complies with all owner requirements discussed during the design review kickoff and, where applicable, aligns with the project's Basis of Design for systems beyond the envelope, lighting, HVAC, and water heating. These systems include electrical distribution, low voltage infrastructure, and fire protection, among others. All requirements were addressed as part of the design development process, and no issues were identified during the design review that required clarification or resolution.

J. COMMISSIONING PLAN

This section does not apply to this project.

K. FUNCTIONAL PERFORMANCE TESTING

This section does not apply to this project.

L. DOCUMENTATION AND TRAINING

This section does not apply to this project.

M. COMMISSIONING REPORT

This section does not apply to this project.

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	LMCC-CXR-01-E
Project Name: SLOHS New Classroom Building	**Report Page:** (Page 2 of 8)
	Date Prepared:

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with commissioning requirements per 120.8. This table is not editable by the user. If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

01	02	03	04	05	06	07	08	09
Design Kickoff Review	Owner's Project Requirements	Basis of Design	Design Review	Commissioning Plan	Functional Performance Testing	Documentation and Training	Commissioning Report	
Table F	Table G	Table H	Table I	Table J	Table K	Table L	Table M	
Yes			Yes					COMPLIES
10	Brandon Rogers, PE							COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	LMCC-CXR-01-E
Project Name: SLOHS New Classroom Building	**Report Page:** (Page 5 of 8)
	Date Prepared:

G. OWNER'S PROJECT REQUIREMENTS (OPR)

This section does not apply to this project.

H. BASIS OF DESIGN (BOD)

This section does not apply to this project.

I. CONSTRUCTION DOCUMENT DESIGN REVIEW CHECKLIST

This table is only completed if a design review document is not attached to permit application to demonstrate compliance with 120.8(b) and 120.8(e). For buildings with >= 10,000 ft² conditioned floor area, the design review will ensure the construction documents meet the Owner's Project Requirements (Table G.) and the Basis of Design Documents (Table H.). For buildings with < 10,000 ft² conditioned floor area, the design review will ensure the construction documents meet the goals documented in Table F. during the Design Review Kickoff.

		YES	NO
01	Attaching Completed Design Review Documentation?	○	●

Design Review Checklist

02	Envelope Design	The envelope design reflected in the contract documents meets all owner requirements established during the design review kickoff and, where applicable, aligns with the Basis of Design. No issues were identified during the design review process, and no resolution actions were required.
03	HVAC System Design	The HVAC system design reflected in the contract documents meets the district's requirements for occupant comfort, control, and operational reliability, as discussed during the design review kickoff. The design also complies with all applicable code requirements and aligns with the Basis of Design where applicable. No issues were identified during the design review process that required resolution.
04	HVAC Controls Design	The HVAC controls design reflected in the contract documents meets the district's requirements for system control, occupant comfort, and maintainability, as identified during the design review kickoff. The controls strategy also aligns with the Basis of Design, where applicable, and complies with all relevant code requirements. No issues were identified during the design review that required resolution.
05	Indoor Lighting System Design	The indoor lighting design reflected in the contract documents meets the district's requirements as discussed during the design review kickoff and aligns with the Basis of Design where applicable. The design complies with all relevant code requirements and provides appropriate lighting levels and control systems for educational use. No issues were identified during the design review that required resolution.

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	LMCC-CXR-01-E
This document is used to demonstrate compliance with mandatory commissioning requirements in 120.8 for nonresidential buildings and hotel/motel or mixed-use buildings with nonresidential spaces. This document does not demonstrate compliance with commissioning requirements within Title 24, Part 11, which need to be documented separately if they apply.	
Project Name: SLOHS New Classroom Building	**Report Page:** (Page 1 of 8)
Project Address: 1499 San Luis Dr. San Luis Obispo CA 93401	**Date Prepared:** 08/01/2025

A. GENERAL INFORMATION

01	Project Location (city)	San Luis Obispo	04	Building Size (ft²)	7656
02	Occupancy Type	Nonresidential	05		< 10,000 ft²
03	Project Type	Newly constructed	06		Unitary or packaged equipment each serving one zone
			07	Climate Zone	5

B. PROJECT SCOPE

Based on project information provided in Table A, Table B indicates which commissioning related requirements apply per 120.8. Table B is not editable by the user.

Commissioning Requirements per 120.8

01	Table F: Design Review Kickoff	120.8(d)1 and 120.8(d)2	The design review kickoff meeting establishes who will play the role of the design reviewer, the project schedule and identify owner's requirements. This meeting should be conducted during schematic design.
02	Table G: Owner's Project Requirements (OPR)	120.8(b)	This requirement does not apply.
03	Table H: Basis of Design (BOD)	120.8(c)	This requirement does not apply.
04	Table I: Design Review	120.8(d) and 120.8(e)	The design reviewer(s) reviews the construction documents for clarity, completeness, and adherence to the owner's goals. Commissioning measures must be included in the construction documents to facilitate the design review and commissioning process. For projects with >= 10,000 ft² of nonresidential conditioned floor area, the design review is for adherence with the Owner's Project Requirements (OPR) and Basis of Design (BOD). This should be conducted during design.
05	Table J: Commissioning Plan	120.8(f)	This requirement does not apply.
06	Table K: Functional Performance Testing	120.8(g)	This requirement does not apply.
07	Table L: Documentation and Training	120.8(h)	This requirement does not apply.
08	Table M: Commissioning Report	120.8(i)	This requirement does not apply.

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125456 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026

SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT
SAN LUIS OBISPO HIGH SCHOOL
1499 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401

NEW CLASSROOM BUILDING
&RELOCATION OF MODULAR RESTROOM

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELLAGA STREET SANTA BARBARA CA 93101
TELEPHONE (805) 963-1726 FAX (805) 963-2951

JOE S. WILCOX AIA
PRINCIPAL-IN-CHARGE

PATRICK B. PANLAQUI
PROJECT MANAGER

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ARCHITECT'S STAMP & SIGNATURE

ENGINEER'S STAMP & SIGNATURE



CONSULTANT INFORMATION

REVISION	DESCRIPTION	DATE	BY
5			
4			
3			
2			
1			

DRAWN DL
CHECKED DL
DATE 08/01/26
JOB. NO. 24010

SHEET TITLE COMMISSIONING DESIGN REVIEW

SHEET

CxR1.0

PLUMBING LEGEND

SYMBOL	ABBREV.	DESCRIPTION
		BALL VALVE
	TPV	TRAP PRIMER VALVE
	T&P	TEMPERATURE PRESSURE RELIEF VALVE
		VALVE IN RISER
	HB	HOSE BIBB
	RHB	RECESSED HOSE BIBB
	FCO	FLOOR CLEANOUT
	COTG	CLEANOUT TO GRADE
WCO	WCO	WALL CLEANOUT
		UNION
		PIPE UP
		PIPE DOWN
		PIPE CONNECTION
		CAPPED/PLUGGED PIPE
		FLOOR DRAIN
	POC/POD	POINT OF CONNECTION OR DISCONNECTION
	WHA	WATER HAMMER ARRESTOR
	S/W	SOIL OR WASTE BELOW GRADE
RWL	RWL	RAIN WATER LEADER
RWO	RWO	RAIN WATER OVERFLOW
CD	CD	CONDENSATE DRAIN
	V	SANITARY VENT
	CW	COLD WATER
	HW	HOT WATER
TP	TP	TRAP PRIMER LINE

PLUMBING ABBREVIATIONS

ABV	ABOVE	IE	INVERT ELEVATION
ADA	AMERICAN DISABILITIES ACT	KW	KILOWATTS
AFF	ABOVE FINISHED FLOOR	LAV	LAVATORY
AG	ABOVE GRADE	LBS	POUNDS
AMP	AMPERAGE	MAX	MAXIMUM
ARCH	ARCHITECT	MBTUH	BTU PER HOUR (THOUSANDS)
BEL	BELOW	MECH	MECHANICAL
BFP	BACKFLOW PREVENTOR	MFR	MANUFACTURE OR MANUFACTURER
BLDG	BUILDING	MIN	MINIMUM
CFH	CUBIC FOOT PER HOUR	(N)	NEW
CI	CAST IRON	NPS	NOMINAL PIPE SIZE
℄	CENTER LINE	NTS	NOT TO SCALE
CONN	CONNECTION	PH	PHASE
CONT	CONTINUE(D)	PP	POLYPROPYLENE
CP	CHROME PLATED	PSI	POUNDS PER SQUARE INCH
CPVC	CHLORINATED POLYVINYL CHLORIDE	RM	ROOM
CY	CYCLES	RPM	REVOLUTIONS PER MINUTE
DFU	DRAINAGE FIXTURE UNITS	RWL	RAIN WATER LEADER
DN	DOWN	RWO	RAIN WATER OVERFLOW
(E)	EXISTING	SOV	SHUT-OFF VALVE
ELEC	ELECTRICAL	TW	TEMPERED WATER
EQPT	EQUIPMENT	TYP	TYPICAL
FLR	FLOOR	UON	UNLESS OTHERWISE NOTED
FR	FROM	V	VENT
FT	FLUSH TANK	VAC	VACUUM
FV	FLUSH VALVE	VTR	VENT THRU ROOF
GA	GAGE OR GAUGE	W	WASTE
GALV	GALVANIZED	W/	WITH
GPC	GALLONS PER CYCLE	W/O	WITHOUT
GPF	GALLONS PER FLUSH	WC	WATER CLOSET
GPM	GALLONS PER MINUTE	WSFU	WATER SUPPLY FIXTURE UNIT
HP	HORSEPOWER	WT	WEIGHT

WATER HEATER SCHEDULE

MARK	MAKE	MODEL	STORAGE CAPACITY (GALLONS)	DIMENSIONS	FULL WEIGHT (POUNDS)	INLET/ OUTLET (INCHES)	POWER			KW (WATTS)	MBTUH	EFF	FLUE SIZE (INCHES)	REMARKS
							VOLTS	PH	CY					
WH-1202	BRADFORD-WHITE	LE110U3-1	10	17-1/2"x16"ø	131	3/4"	120	1	60	1.5	–	–	–	NOTE 1

NOTES:
1. See detail 4/P-001 for installation.

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MIN. BRANCH SIZE (")				MAKE AND MODEL	FITTINGS	REMARKS
		W	V	CW	HW			
DF-1	ADA DRINKING FOUNTAIN WALL MOUNTED DUAL HEIGHT w/BOTTLE FILLER	2	1-1/2	1/2	–	HAWS #1119.14 with 1920, 32"x16¼", 14 GA STAINLESS STEEL	PROVIDE HAWS MOUNTING PLATE #6700.4, STOPS AND SUPPLIES	INSTALL PER ADA REQUIREMENTS
FD-1	FLOOR DRAIN W/ SQUARE STRAINER & TRAP PRIMER	2	1-1/2	1/2	–	ZURN #Z415S-2NH-VP-P, 5"x5", CAST IRON W/ BRONZE STRAINER	ZURN #Z1022-XL LEAD FREE SANI-GUARD AUTOMATIC TRAP PRIMER	
HB-1	HOSE BIBB RECESSED W/ VACUUM BREAKER	–	–	3/4	–	WOODFORD #MB224, 14 GA STAINLESS STEEL	PROVIDE W/LOOSE TEE KEY	
HB-2	HOSE BIBB WALL MOUNT W/ VACUUM BREAKER	–	–	3/4	–	WOODFORD #24-3/4-PC, POLISHED CHROME PLATED BRASS	PROVIDE W/LOOSE TEE KEY	
L-1	ADA LAVATORY WALL MOUNT METERING 0.50 GPM, 0.16 GPC	2	1-1/2	1/2	1/2	AMR. STD. "LUCERNE" #0355.012, 21-1/4"x18-1/4" VITREOUS CHINA, WHITE	CHICAGO #3600-E2805AB W/GRID STRAINER, STOPS, SUPPLIES, C.P. BRASS "P" TRAP, & J.R. SMITH WALL SUPPORT #0722 TRUBRO LAV GUARD 2 PIPING COVER	INSTALL PER ADA REQUIREMENTS PROVIDE TEMPERING VALVE PER DETAIL 6/P-001
MS-1	MOP SINK FLOOR MOUNTED W/ VACUUM BREAKER	3	2	3/4	3/4	AMR. STD. "FLORWELL" #7745.811 28"x28"x13", ENAMELED CAST IRON	T&S BRASS FAUCET #B-0665-BSTP W/INTEGRAL SERVICE STOP & SPRING CHECK CARTRIDGES, FIAT HOSE #832-AA, FIAT HANGER #889-CC	
RD-1	ROOF DRAIN W/ OVERFLOW	3	–	–	–	ZURN #Z165-3NH, 32"x16" SUMP RECEIVER CAST IRON & CI STRAINER		
WC-1	ADA WATER CLOSET FLOOR MOUNTED ELONGATED, 1.28 GPF	3	2	1-1/4	–	AMR. STD. "MADERA" #3043.001 28⅜"x 14"x 16½"RIM VITREOUS CHINA, WHITE	SLOAN ROYAL II #111-1.28 AMR. STD. SEAT "EverClean" #5901.110SS	INSTALL PER ADA REQUIREMENTS LOCATE HANDLE ON WIDE SIDE OF FIXTURE

PLUMBING GENERAL NOTES

1. All work shown herein shall comply with the requirements of the following codes:
   - 2022 California Administrative Code (CAC): Part 1, Title 24, California Code of Regulations (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 (CEnC): Part 6, Title 24 CCR
   - 2022 California Fire Code (CFC): Part 9, Title 24 CCR
   - 2022 California Green Building Standards Code (CALGreen): Part 11, Title 24 CCR
2. Contractors are referred to the specifications of the project for more detailed and additional requirements.
3. Furnish all labor, materials, transportation, and perform all required operations to provide a complete and operable system, in accordance with the full intent and meaning of the Drawings, Specifications, and per standard trade practices.
4. The installation of piping and equipment shall be made in such a manner to clear beams and obstructions. Do not cut into or reduce the size of plates or any load carrying members without approval of the Architect. Check drawings and work of others to prevent interference.
5. All plumbing fixtures, fittings and piping shall be "lead-free" per California AB1953 and meet the requirements of ANSI/NSF 61, Section 9.
6. All locations of piping and equipment are shown diagrammatically. Adhere to locations as closely as possible. Vary runs or arrangement of piping as required to meet structural and other interferences or as required by Architect.
7. Pipe sizes shown on drawings shall be installed as shown. Branch line sizes to fixtures when not indicated shall be per minimum branch line size as indicated on fixture schedule. Equipment and appliance supply piping shall be as indicated on drawings. Contractor shall verify size of equipment or appliance connection and provide reducing fittings to suit.
8. Materials exposed within any space being used as a air plenum shall be non combustible or shall have a flame spread index not greater than 25 and a smoke developed index not greater than 50, when tested as a composite product in accordance with one of the following test methods: NFPA 255, method of test of surface burning characteristics of building materials, ASTM E84, surface burning characteristics of building materials, or UL 723, test for surface burning characteristics of building materials.
9. No product will be accepted on the job site without prior approval by the Architect. The Contractor shall submit catalog sheets of all plumbing equipment.
10. Provide threaded ½"turn angle stops only, no compression angle stops.
11. All Valves not behind an access panel or door will have an ID sticker. If valve is above ceiling tile there will be a sticker on the t-bar stating "Valve Above". All valves to have brass tags stating what they are for i.e. "Girls Restroom"
12. Absolutely no Abandoned water legs will be left in place, i.e. no caps or plugs. If leg is being abandoned, the Tee will be removed and the line will be repaired with no dead leg, applicable in all situations (i.e. interior and exterior).
13. All plumbing fixtures and products are to be verified to be in accordance with District Standards. Contractor to be provided and/or request District Standards to ensure compliance prior to providing product submittals to BMA Mechanical+ for review.
14. The run time of hand-operated metering faucets shall be set for a minimum of 10 seconds.
15. All piping materials are to be stored and capped in a clean dry location. All piping installed shall be capped at the end of each work day to prevent dust, dirt or foreign material entering the pipe from the time of rough-in installation until the final connection of the piping to fixtures or equipment.
16. Rough-in and/or install plumbing fixtures at heights indicated on plans, or as directed by Architect. If a conflict in fixture location is noted on the drawings, the architectural drawings shall take precedence.
17. Piping is to be supported by hangers less than 12" from support structure.
18. Contractor to verify all P.O.C./P.O.D. for all utilities i.e. pothole each side, field verify depths throughout for all existing utilities. No allowance shall subsequently be made on behalf of the contractor on account of an error on his or her part of his or her negligence of failure to acquaint himself or herself with the conditions of the site, existing utility locations and easements, or of the street or roads approaching the site.
19. Contractor to physically walk the site and verify all utility point of connections for all utilities, I.E. pothole each side. Field verify depths throughout for all existing utilities.
20. No allowance shall subsequently be made on behalf of the contractor on account of an error on his or her part of his or her negligence of failure to acquaint himself or herself with the conditions of the site, existing utility locations and easements, or the street or roads approaching the site.

MANDATORY TITLE 24 MEASURES

Service Water Heating Systems

1. Service water heating systems and equipment may be installed only if the manufacturer has certified that the system or equipment complies with all the requirements of section 110.3 of the CEnC.
2. Service water-heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use as listed in Table 3, Chapter 50 of the ASHRAE Handbook, HVAC Applications Volume.
3. Systems that have a total capacity greater than 167,000 Btu/hr., outlets that require higher than service water temperatures as listed in the ASHRAE Handbook, Applications Volume, shall have separate remote heaters, heat exchangers, or boosters to supply the outlet with higher temperature.
4. All hot water piping shall be insulated in accordance with CEnC section 120.3. (See: Table 120.3-A, For Ref)
5. Unfired service water heater storage tanks and backup tanks for solar water heating systems shall have either: external insulation with an installed R- value of at least R-3.5; internal and external insulation with a combined R- value of at least R-16; or sufficient insulation so that the heat loss of the tank surface based on an 80℉ water-air temperature difference shall be less than 6.5 Btu/hr/sf. Residential water system piping and insulation for piping tanks and cooling systems to meet the requirement of CEnC section 150.0 (j).
6. Lavatories in restrooms of public facilities shall be equipped with controls to limit the outlet temperature to 110℉.

BRACING AND ANCHORAGE

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 connection.
3. Temporary, movable or mobile equipment which is heavier than 400 pounds or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component is required to be restrained in a manner approved by DSA.

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

A. Components weighing less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.

B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

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

Piping, Ductwork, and Electrical Distribution System Bracing Note

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7 Section 13.3 as defined in ASCE 7 Section 13.6.5, 13.6.6, 13.6.7, 13.6.8; and 2022 CBC, Sections 1617A.1.24, 1617A.1.25 and 1617A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. The MEP design professional engineer responsible for content on these sheets has verified that the design methods identified below are in accordance with DSA IR 16-13.

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

MP [X] MD [ ] PP [X] E [ ] – Option 1: Project-Specific Design.
MP [ ] MD [ ] PP [ ] E [ ] – Option 2: Design Based on OSHPD OPM, Within Project Submittal
MP [ ] MD [ ] PP [ ] E [ ] – Option 3: Design Based on OSHPD OPM, Deferred Submittal
details.

PLUMBING SHEET INDEX

P-000	PLUMBING NOTES, SCHEDULE, LEGEND & ABBREVIATIONS
P-001	PLUMBING DETAILS
P-102	PLUMBING SITE PLAN
P-201	PLUMBING FLOOR PLAN
P-202	PLUMBING ROOF PLAN

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NEW CLASSROOM BUILDING
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ENGINEER'S STAMP & SIGNATURE



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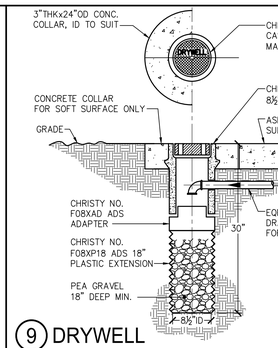
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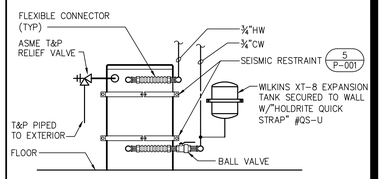
SHEET TITLE: PLUMBING SCHEDULES, NOTES, LEGEND & ABBREVIATIONS

SHEET
P-000

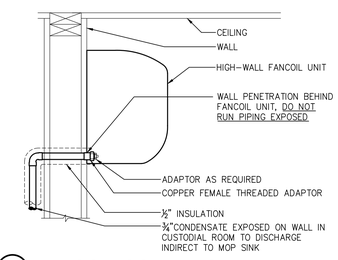
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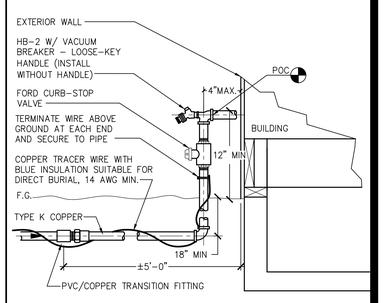
9 DRYWELL



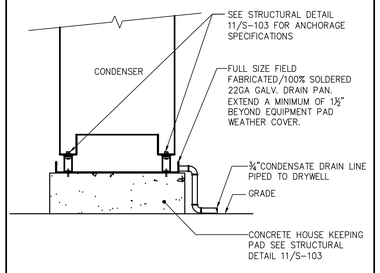
4 WH-1



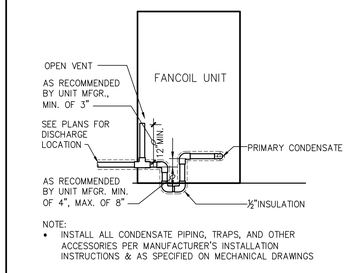
8 FANCOIL CONDENSATE DRAIN



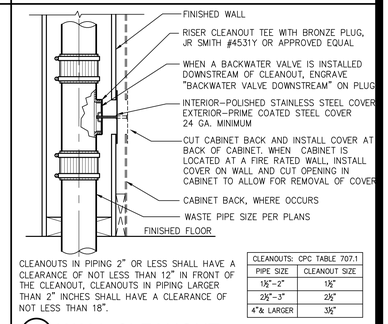
3 BUILDING WATER SUPPLY



11 CONDENSER UNIT DRAIN



7 CONDENSATE DRAIN CONNECTIONS

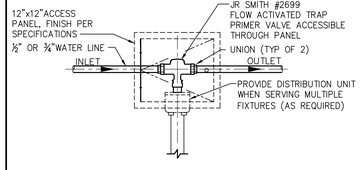


CLEANOUTS IN PIPING 2" OR LESS SHALL HAVE A CLEARANCE OF NOT LESS THAN 12" IN FRONT OF THE CLEANOUT, CLEANOUTS IN PIPING LARGER THAN 2" INCHES SHALL HAVE A CLEARANCE OF NOT LESS THAN 18".

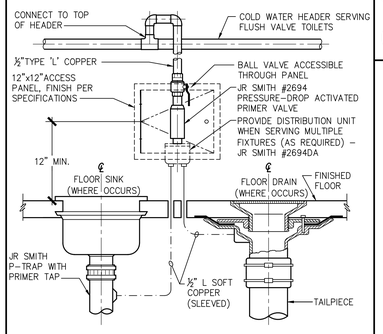
CLEANOUTS: CPC TABLE 707.1	
PIPE SIZE	CLEANOUT SIZE
1¼"–2"	1½"
2½"–3"	2½"
4"& LARGER	3½"

2 WALL CLEANOUT
NTS

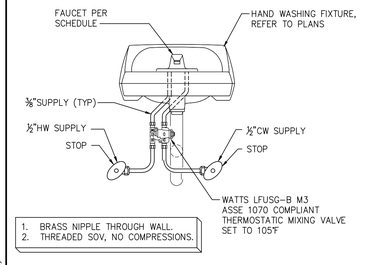
FLOW ACTIVATED



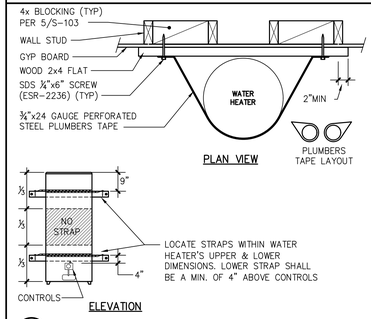
PRESSURE DROP ACTIVATED



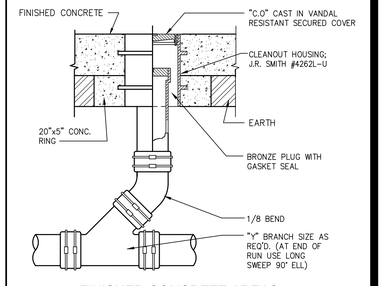
10 TRAP PRIMER



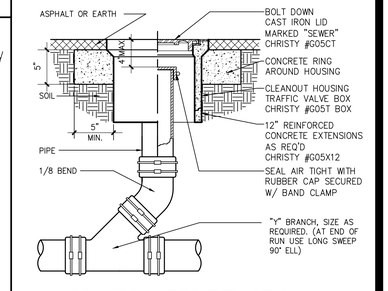
6 TEMPERING VALVE



5 WH-1 & EXPANSION TANK RESTRAINT



FINISHED CONCRETE AREAS



ASPHALT & LANDSCAPED AREAS

1 CLEANOUT TO GRADE

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NEW CLASSROOM BUILDING &RELOCATION OF MODULAR RESTROOM

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SHEET TITLE PLUMBING DETAILS

SHEET P-001

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GENERAL NOTES

1. Install all waste piping with a minimum 2% slope unless otherwise noted.

REFERENCE NOTES

1 See Civil plans for continuation.

PLUMBING SITE PLAN EXISTING MODULAR RESTROOM BUILDING

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

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SHEET TITLE PLUMBING SITE PLAN
RESTROOM BUILDING

SHEET
P-102

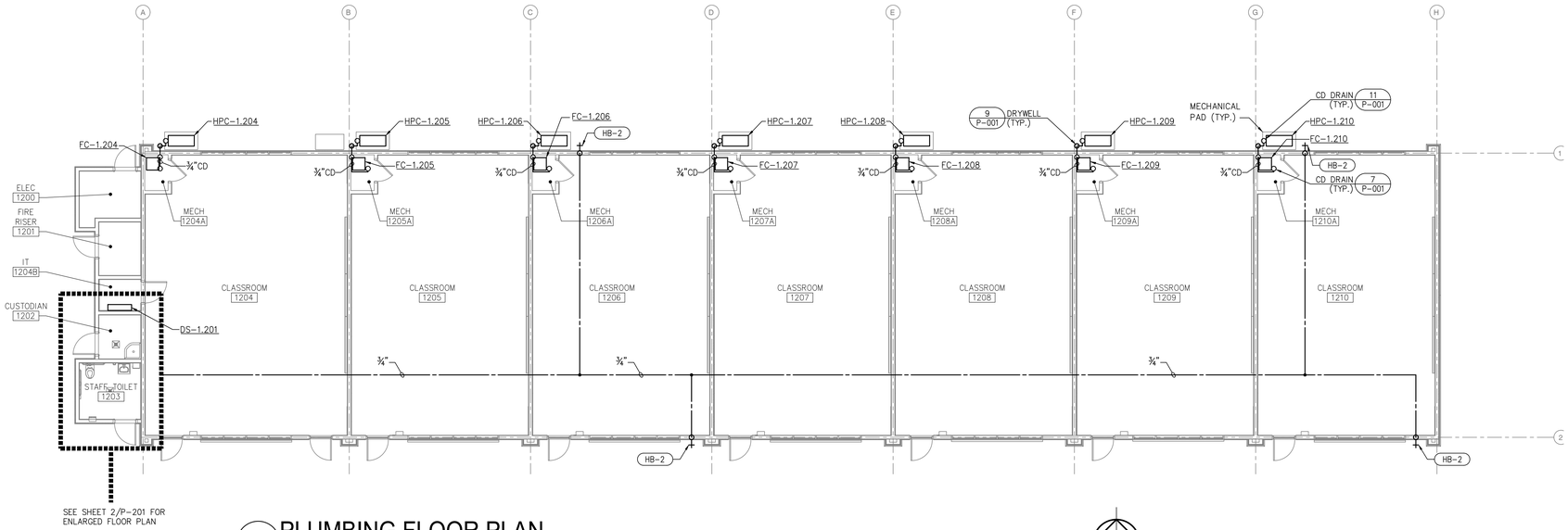
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GENERAL NOTES

1. See plumbing fixture schedule for pipe branch size to individual fixtures.
2. Install all waste piping with a minimum 2% slope unless otherwise noted.

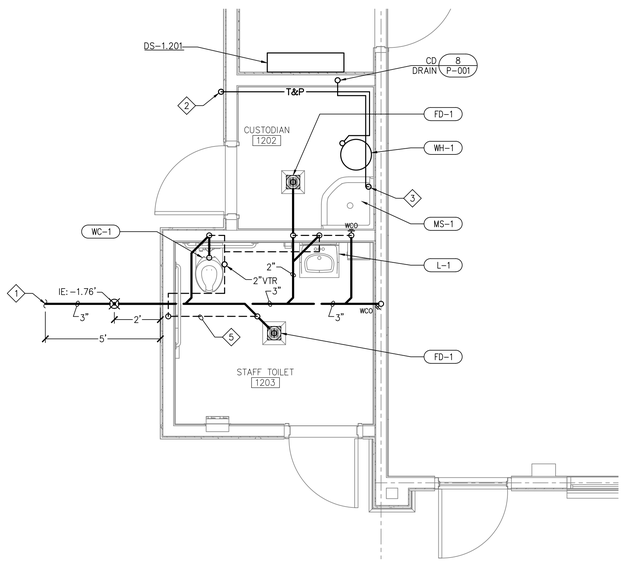
REFERENCE NOTES

1. See Civil plans sheet C-4.0 for continuation.
2. ¾"T&P discharge location, install piping not less than 6 inches or more than 24 inches above grade, pointing downwards.
3. ¾"Condensate down wall and discharge indirect to mop sink (MS-1).
4. Cold water SOV behind access panel in ceiling. Provide a sticker on the ceiling stating "Valve Above".
5. 1½"Vent line below floor.



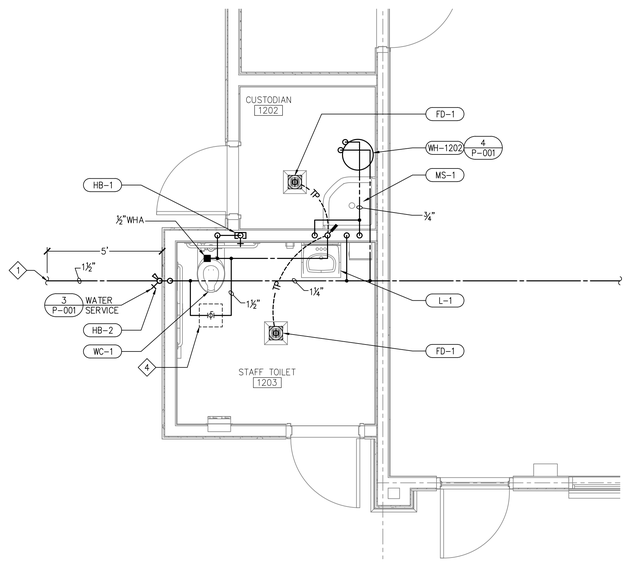
1 PLUMBING FLOOR PLAN

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



2 PLUMBING ENLARGED FLOOR PLAN: WASTE

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



3 PLUMBING ENLARGED FLOOR PLAN: WATER

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

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REGISTERED PROFESSIONAL ENGINEER PATRICK BENSON PANLAGUI No. M 33497 Exp 6/30/27 MECHANICAL STATE OF CALIFORNIA

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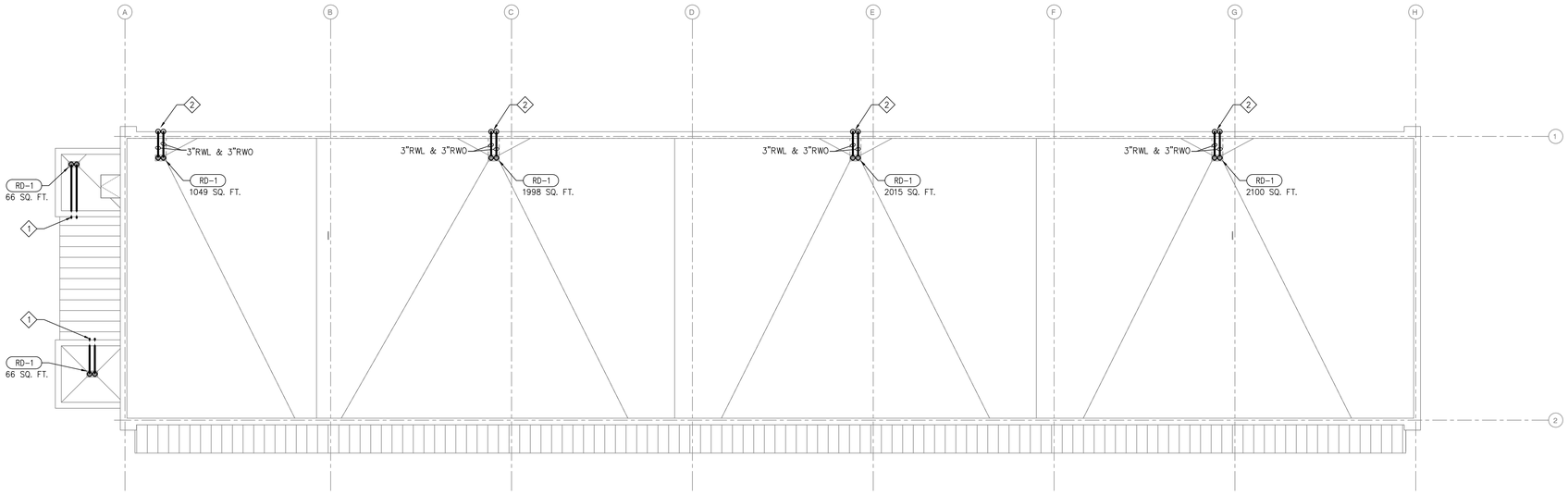
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SHEET TITLE PLUMBING FLOOR PLAN

SHEET
P-201

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PLUMBING ROOF PLAN

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

GENERAL NOTES

1. Roof drains have been sized per CPC table 1103.1 using a rainfall rate of 2"(in/h) per CPC table D1.1.
2. Horizontal rain water piping has been sized per CPC table 1103.2 using a rainfall rate of 2"(in/h) & ¼"/FT slope
3. Roof area served by each roof drain is shown below roof drain callout, number indicates square feet.
4. Plumbing vents shall terminate not less than 6" above the roof, nor less than 12" from a vertical surface. Maintain 10'-0" clearance from building air intakes.

REFERENCE NOTES

1. 3"RWL and 3"RWO through exterior wall, drain to lower roof gutter below. See South Exterior Elevation on Architectural sheet 3/A-300 for continuation.
2. 3"RWL and 3"RWO through exterior wall approximately 10'-6" above finish grade, to exposed downspout on wall. See West Exterior Elevation on Architectural sheet 1/A-300 for continuation.

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PROJECT MANAGER

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CONSULTANT INFORMATION

REVISION	DESCRIPTION	DATE	BY
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JOB. NO. 24010

SHEET TITLE PLUMBING ROOF PLAN

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GENERAL NOTES

1. CODE COMPLIANCE: ALL WORK SHALL CONFORM TO AND BE PERFORMED IN ACCORDANCE WITH CODES, STANDARDS, AND ORDINANCES AS SET FORTH BY THE AUTHORITIES HAVING JURISDICTION AND THEIR LATEST ADOPTED EDITIONS (IN EFFECT AT TIME OF BUILDING PERMIT APPLICATION) OF THE FOLLOWING PUBLICATIONS:

   A. CALIFORNIA CODE OF REGULATIONS TITLE 24; INCLUDES 2022 CALIFORNIA ELECTRICAL CODE, 2022 CALIFORNIA FIRE CODE, 2022 CALIFORNIA BUILDING CODE, ETC. WITH DSA AMENDMENTS AS APPLICABLE.

   B. AMERICANS WITH DISABILITIES ACT (ADA).

2. SAFETY: THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL EQUIPMENT IN A SAFE AND RESPONSIBLE MANNER. KEEP DEAD FRONT EQUIPMENT IN PLACE WHILE EQUIPMENT IS ENERGIZED. CONDUCT ALL CONSTRUCTION OPERATIONS IN A SAFE MANNER FOR EMPLOYEES AS WELL AS OTHER WORKPERSONS OR ANYONE VISITING THE JOB SITE. PROVIDE BARRIERS, FLAGS, TAPE, ETC. AS REQUIRED FOR SAFETY. THE CONTRACTOR SHALL HOLD ALL PARTIES HARMLESS OF NEGLIGENT SAFETY PRACTICES, WHICH MAY CAUSE INJURY TO OTHERS ON OR NEAR THE JOB SITE.

3. FIRE RATED ASSEMBLIES SHALL MAINTAIN RATINGS AS SPECIFIED IN THE CALIFORNIA BUILDING CODE CHAPTER 7. CONTRACTOR SHALL PROVIDE AND INSTALL PHYSICAL ENCLOSURE AROUND FIXTURES, PANELS, ETC. AS REQUIRED. ALL ASSEMBLIES TO BE PENETRATED SHALL BE INSTALLED WITH APPLICABLE THROUGH-PENETRATION FIRESTOP SYSTEM AS DETERMINED BY UL CLASSIFICATION. BEFORE CONSTRUCTION, VERIFY AND COMPLY WITH REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION.

4. MOUNTING HEIGHTS SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:

   +15" AFF: RECEPTACLES, TELEPHONE, TV & DATA OUTLETS. (MEASURED BOTTOM OF OUTLET BOX)
   +48" AFF: LIGHT SWITCHES. (MEASURED TOP OF OUTLET BOX)
   +48" AFF: FIRE ALARM MANUAL PULL STATIONS, T-STATS. (MEASURED TOP OF OUTLET BOX)
   THE LOWER OF +80" AFF TO BOTTOM OF LENS, OR 6" BELOW CEILING: FIRE ALARM VISUALS.

   ELECTRICAL SWITCHES: CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHT AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE OUTLET BOX NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE OUTLET BOX TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM. [CBC 11B-308.1.1]

   ELECTRICAL RECEPTACLE OUTLETS: ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM [CBC 11B-308.1.2]

   BEFORE ROUGH-IN, VERIFY ALL MOUNTING HEIGHTS AND EXACT LOCATIONS FOR ALL EQUIPMENT ELECTRICAL CONNECTIONS, STUB-UPS, RECEPTACLES, OUTLETS, ETC. WITH ARCHITECT OR OWNER. PLACE DEVICES LOCATED ABOVE COUNTERS, SHELVING, ETC. AND IN BATHROOMS SO AS NOT TO CONFLICT WITH EDGES OF WAINSCOTING, COUNTER SPLASH, SHELVING, ETC. ARCHITECTURAL SHEETS SHALL GOVERN.

5. LABEL PANELS, CABINETS, BACKBOARDS, MAIN DEVICES, SAFETY SWITCHES, CONTACTORS AND OTHER SPECIFICALLY DESIGNATED EQUIPMENT SHOWN ON PLANS. USE ENGRAVED LAMINATED PLASTIC NAMEPLATES ATTACHED BY SCREWS OR RIVETS. FOR FEEDERS, NEATLY AND INDELIBLY LABEL CONDUIT DESTINATIONS ON BOTH VISIBLE ENDS OF CONDUIT RUNS WHERE CONDUITS TERMINATE AT DESIGNATED ENCLOSURES, STRUCTURES OR EQUIPMENT (INCLUDING PULL AND SPLICE BOXES).

6. ANCHORAGE AND BRACING NOTES:

   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 HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

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

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

   PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE.

   PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

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

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

   MP ☐ MD ☐ PP ☐ E☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
   MP ☐ MD ☐ PP ☐ E☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #_____.

7. PULLROPES: ANY RACEWAY WITHOUT CABLE OR WIRE SHALL BE INSTALLED WITH MINIMUM 200 POUND TEST PULL LINE AND LARGER IF REQUIRED BY SERVING UTILITY COMPANY. ANY NEW OR EXISTING COMMUNICATION OR SIGNAL RACEWAY ROUTED BETWEEN BUILDINGS, SIGNAL CABINETS, AND/OR SIGNAL CLOSETS WITH FUTURE CAPACITY SHALL BE INSTALLED WITH MINIMUM 200 POUND TEST PULL LINE AS WELL AS THE CALLED FOR CABLE.

8. CONDUIT SHALL NOT BE INSTALLED WITHIN CONCRETE SLABS OR CONCRETE DECKS UNLESS SPECIFICALLY NOTED.

EXISTING BUILDINGS

1. ASBESTOS: IF DURING THE COURSE OF WORK THE CONTRACTOR OBSERVES THE EXISTENCE OF ASBESTOS, OR ASBESTOS-BEARING MATERIALS, THE CONTRACTOR SHALL IMMEDIATELY TERMINATE FURTHER WORK ON THE PROJECT AND NOTIFY THE OWNER OF THE CONDITION. THE OWNER WILL, AFTER CONSULTATION WITH THE OWNER'S REPRESENTATIVE, DETERMINE A FURTHER COURSE OF ACTION.

2. ANY DEMOLITION WORK SHOWN WAS PREPARED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER DOES NOT REPRESENT THAT ALL ITEMS WHICH MAY REQUIRE DEMOLITION HAVE BEEN SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY EXAMINE THE SITE AND THE CONTRACT DOCUMENTS AND TO PERFORM ALL DEMOLITION AND RECONSTRUCTION WHICH MAY BE REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.

3. EXISTING CONDITIONS: INFORMATION SHOWN FOR EXISTING CONDITIONS WAS PRIMARILY GAINED FROM "AS BUILT" DRAWINGS AND/OR LIMITED FIELD INVESTIGATION. BEFORE BID, VISIT SITE TO VERIFY EXISTING CONDITIONS AND MAKE ALLOWANCE FOR VARIATIONS FROM THAT SHOWN.

4 EXISTING CONDUCTORS: INTERCEPT, EXTEND, REROUTE, REPULL CONDUCTORS, SPLICE AND OTHERWISE MODIFY EXISTING CONDUCTORS OF ALL SYSTEMS AS REQUIRED TO MAINTAIN AND/OR ESTABLISH PROPER FUNCTION AND SATISFY DESIGN INTENT. REMOVE ABANDONED CONDUCTORS.

5. EXISTING COMMUNICATIONS, DATA AND CATV AND OTHER LOW VOLTAGE TYPE SYSTEM OUTLET LOCATIONS SHOWN ON THE PLAN TO BE RELOCATED SHALL BE PERFORMED BY THE ELECTRICAL CONTRACTOR. MODIFY EXISTING SYSTEM AS REQUIRED FOR FULL FUNCTION (SAME AS EXISTING) IN NEW LOCATION.

6. WHERE EXISTING BUILDING CONSTRUCTION, MECHANICAL UNITS AND OTHER EQUIPMENT IS SHOWN TO BE REMOVED, DISCONNECT AND REMOVE ALL ASSOCIATED ELECTRICAL INSTALLATION.

7. CLOSELY COORDINATE OUTAGE AND FACILITY DISRUPTION TIME WITH ARCHITECT AND OWNER. MINIMUM 72-HOUR NOTICE IS REQUIRED BEFORE ANY CIRCUIT SHUTDOWN OR DISRUPTION OF FACILITY PERSONNEL FUNCTIONING.

MECHANICAL SYSTEMS

1. MECHANICAL UNIT CONDUITS: TO PREVENT DAMAGE DUE TO VIBRATION, BOTH POWER AND CONTROL WIRING CONDUITS FEEDING EXTERIOR MECHANICAL UNITS SHALL BE PROVIDED AND INSTALLED WITH LIQUID-TIGHT FLEXIBLE METALLIC TYPE CONDUIT AT FINAL CONNECTION TO UNIT AND BETWEEN ROOF JACK AND DISCONNECT SWITCH WHERE DISCONNECT IS MOUNTED ON UNIT.

2. MECHANICAL CONTROLS RACEWAYS: MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AS REQUIRED IN ACCORD WITH SECTION 26 0533 - RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS. INCLUDING BUT NOT LIMITED TO: J-BOXES, RINGS, CONDUIT AND SUPPORTS (SIZE ALL AS REQUIRED).

3. MECHANICAL EQUIPMENT CONTROLS: MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOW VOLTAGE WIRE AND CONNECTIONS (BELOW 120 VOLT) TO AND FROM ALL MECHANICAL CONTROL DEVICES. LOW VOLTAGE CONTROL WIRE SHALL BE IN CONDUIT, UNLESS OTHERWISE NOTED.

GENERAL POWER PLAN NOTES

A. FUSING: ALL FUSIBLE SAFETY DISCONNECT SWITCHES SHALL BE PROVIDED WITH DUAL-ELEMENT TIME DELAY TYPE FUSES SIZED AND RATED PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. VERIFY WITH EQUIPMENT NAMEPLATE BEFORE INSTALLATION.

B. U.O.N. INSTALL SEPARATE NEUTRALS FOR EACH BRANCH CIRCUIT. LABEL NEUTRAL CIRCUIT NO. IN PANELS AND BOXES.

C. MOTOR OVERLOAD PROTECTION: WHERE REQUIRED BY NEC ARTICLE 430 PART C AND NOT SHOWN ON PLAN OR PROVIDED INTEGRAL WITH EQUIPMENT, PROVIDE AND INSTALL THERMAL OVERLOAD PROTECTION FOR ALL MOTORS.

D. SPARE CONDUIT FOR RECESSED PANELS: PROVIDE (1) 3/4" SPARE CONDUIT STUB UP TO ACCESSIBLE ABOVE CEILING SPACE AND/OR ACCESSIBLE SPACE BELOW FOR EVERY (3) SPARE BREAKER SPACES AS INDICATED ON PANEL SCHEDULES.

E. DEVICE LOCATIONS SHOWN ARE SCHEMATIC AND APPROXIMATE. EXACT LOCATIONS SHALL BE FIELD VERIFIED DURING ROUGH-IN WITH ARCHITECTURAL ELEVATIONS, CASEWORK SHOP DRAWINGS, FURNITURE, ETC. AND SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT WITH OTHER EQUIPMENT.

F. ELECTRICAL AND COMMUNICATIONS OUTLETS SHOWN IN THE SAME LOCATION, SHALL BE MOUNTED ON OPPOSITE SIDES OF THE SAME STUD. COORDINATE BETWEEN ELECTRICAL AND COMMUNICATIONS PLANS. ALTERNATIVELY, A DEVICE BRACKET MAY BE USED BETWEEN STUDS WITH 4-INCH SEPARATION BETWEEN POWER AND LOW VOLTAGE BOXES.

G. ELECTRICAL AND COMMUNICATIONS OUTLETS SHOWN IN FIRE RATED, OR SOUND RATED (STC) ASSEMBLIES SHALL BE PROVIDED WITH PUTTY PADS LISTED FOR THE APPLICATION.

H. WHERE OUTLETS ARE SHOWN TO BE MOUNTED ABOVE COUNTER / CASEWORK, PLACE BOTTOM OF OUTLETS 1" ABOVE COUNTER / CASEWORK BACKSPLASH, UNLESS DIRECTED OTHERWISE BY ARCHITECT.

I. CONTROLLED RECEPTACLES; INSTALLED PER REQUIREMENTS OF 2022 BUILDING ENERGY EFFICIENCY STANDARDS / EFFICIENCY STANDARDS, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 6. SECTION 130.5 (D) - ELECTRICAL POWER DISTRIBUTION SYSTEMS AS CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND / OR CONTROLLED RECEPTACLES. SHALL BE PROVIDED WITH AN APPROVED MEANS OF INCLUDING A PERMANENT AND DURABLE MARKING IDENTIFYING THE CONTROLLED RECEPTACLES OR CIRCUITS TO DIFFERENTIATE THEM FROM UNCONTROLLED RECEPTACLES OR CIRCUITS. WHERE SHOWN ON ASSOCIATED FLOOR PLANS, AND OR REQUIRED BY THE STANDARDS; A DUPLEX NOTED TO BE CONTROLLED SHALL BE 'SPLIT-WIRED', SO THE TOP OUTLET SHALL BE SWITCHED AND THE BOTTOM OUTLET SHALL BE UNSWITCHED. A DOUBLE DUPLEX (FOURPLEX) NOTED TO BE CONTROLLED SHALL HAVE ONE OF THE DUPLEX RECEPTACLES SHALL BE CONTROLLED AND THE OTHER DUPLEX RECEPTACLE SHALL BE UNSWITCHED.

GENERAL LIGHTING PLAN NOTES

A. LIGHTING FIXTURE LOCATIONS SHOWN ARE SCHEMATIC. REFER TO ARCHITECTURAL PLANS (REFLECTED CEILING, ELEVATIONS, ETC.) FOR EXACT LOCATIONS AND MOUNTING HEIGHTS PRIOR TO ROUGH-IN.

B. COORDINATE MOUNTING HEIGHTS OF WALL AND PENDANT MOUNT LUMINAIRES WITH ARCHITECT PRIOR TO ROUGH-IN.

C. REFER TO ARCHITECT'S REFLECTED CEILING PLAN(S) FOR CEILING HEIGHTS, TYPES, FINISHES, ETC. IN EACH AREA. VERIFY FLANGE TYPES, TRIM KITS, STEM LENGTHS, ETC. FOR ALL FIXTURES PRIOR TO SUBMITTALS.

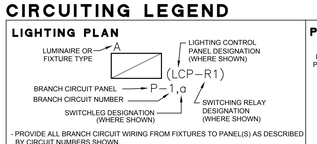
D. CONFIRM LOCATION OF ALL DOORS SWINGS WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN OF SWITCHES.

E. PROVIDE UNSWITCHED HOT LEG OF ROOM LIGHTING BRANCH CIRCUIT TO EACH BATTERY POWERED EMERGENCY LIGHT AND EXIT SIGN FOR CONTINUOUS CHARGING (AS APPLICABLE).

F. CONTRACTOR TO ESTABLISH LOCATIONS OF ALL RECESSED LIGHTING FIXTURES PRIOR TO MECHANICAL DUCTWORK INSTALLATION.

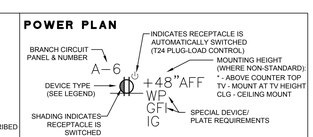
CIRCUITING LEGEND

LIGHTING PLAN



- PROVIDE ALL BRANCH CIRCUIT WIRING FROM FIXTURES TO PANEL(S) AS DESCRIBED BY CIRCUIT NUMBERS SHOWN.
- BRANCH CIRCUITS SHALL HAVE A SEPARATE NEUTRAL .
- PROVIDE ALL WIRING BETWEEN FIXTURES AND CONTROL DEVICES AND/OR LOW VOLTAGE CONTROL CABLING AS DESCRIBED IN REFERENCE NOTES AND/OR SHOWN BY SWITCHLEG DESIGNATIONS.
- FLEXIBLE CONDUIT WHIPS, MAY BE USED TO CONNECT LIGHTS TO JUNCTION BOX.
- BRANCH WIRING WITHIN ROOM SHALL BE 3/4" CONDUIT MINIMUM,WITH MAX. 40% FILL INCLUDING HOTS. SWITCH LEGS AND 0-10V CONDUCTORS.
- HOME RUN CONDUITS SHALL BE 3/4" CONDUIT MINIMUM, MAXIMUM OF (3) BRANCH CIRCUITS PER CONDUIT.
- EXIT AND BATTERY POWERED EMERGENCY LIGHT FIXTURES SHALL BE CONNECTED TO AN UNSWITCHED BRANCH CIRCUIT CONDUCTOR.

POWER PLAN



- PROVIDE ALL BRANCH CIRCUIT WIRING FROM DEVICES TO PANEL(S) PER DESIGNATIONS/CIRCUIT NUMBERS.
- HOME RUN CONDUITS SHALL BE MINIMUM 3/4"C, MAX OF (3) BRANCH CIRCUITS PER CONDUIT.
- BRANCH CIRCUIT SHALL HAVE A SEPARATE NEUTRAL.
- SEE GENERAL ELECTRICAL NOTE #4 FOR WIRING DEVICE MOUNTING HEIGHTS.

NOTE:
FOR CLARIFICATION, SOME HOMERUNS HAVE NOT BEEN SHOWN ON THE DRAWINGS, CONTRACTOR TO PROVIDE ALL REQUIRED HOMERUNS, REFER TO SINGLE LINE DIAGRAMS AND PANEL SCHEDULES FOR ALL CONDUCTORS SIZES.

GENERAL DEMOLITION PLAN NOTES

A. REFER TO ARCHITECTURAL DEMOLITION SHEETS FOR ADDITIONAL INFORMATION.

B. EQUIPMENT SHOWN TO BE REMOVED IS SHOWN FOR REFERENCE ONLY. INFORMATION WAS OBTAINED FROM ORIGINAL BUILDING DRAWINGS AND LIMITED FIELD INVESTIGATION AND MAY NOT REPRESENT ALL ELECTRICAL DEMOLITION. FIELD VERIFY CONDITIONS AND DISCONNECT/REMOVE ALL EQUIPMENT AS REQUIRED TO MEET THE INTENT OF THAT SHOWN ON THE LIGHTING AND POWER/SIGNAL DRAWINGS.

C. ALL ELECTRICAL EQUIPMENT SHOWN ON DRAWING (OR REQUIRED) TO BE DEMOLISHED SHALL BE DISCONNECTED, REMOVED AND DISPOSED OF BY ELECTRICAL CONTRACTOR (UNLESS OTHERWISE DEEMED SALVAGEABLE BY DISTRICT PERSONNEL). SALVAGEABLE EQUIPMENT SHALL BE TURNED OVER TO DISTRICT PERSONNEL. NO EQUIPMENT (RACEWAYS, BOXES, CABLING, ETC.) SHALL BE ABANDONED IN PLACE AND COVERED BY NEW CONSTRUCTION.

D. CLEAN, REPAIR (AS REQUIRED) AND RELAMP ALL EXISTING LIGHT FIXTURES THAT ARE TO REMAIN AND BE RE-USED TO ASSUME ALL FIXTURE ARE OPERATIONAL UPON COMPLETION OF PROJECT.

E. ANY LIGHT SWITCHES THAT ARE NO LONGER IN USE, WHETHER SHOWN ON THE DEMOLITION PLAN OR NOT, ARE TO HAVE THE DEVICE AND WIRING REMOVED, AND A BLANK COVER PLATE INSTALLED.

F. SCHEDULE ANY OUTAGES WITH OWNER PRIOR TO DE-ENERGIZATION OF ANY BRANCH CIRCUITS OR FEEDERS.

G. DISCONNECTION/REMOVAL OF EXISTING COMMUNICATIONS SYSTEMS COMPONENTS SHALL BE SCHEDULED WITH OWNER AND COORDINATED WITH THEIR VENDORS.

H. SALVAGE ALL REMOVED COMPONENTS (SPEAKERS, GRILLES, TELEPHONE INSTRUMENTS, RADIO HANDSETS, ETC.) TO THE OWNER, OR PROPERLY DISPOSE OF AT OWNER DISCRETION.

I. INFORMATION SHOWN FOR LOAD DESCRIPTIONS ON EXISTING PANELS WAS GAINED FROM ORIGINAL BUILDING ELECTRICAL PLANS AND SHALL BE FIELD VERIFIED. CONFIRM LOAD ON EACH CIRCUIT OF ALL EXISTING PANELS AND PROVIDE UPDATED TYPEWRITTEN CIRCUIT DIRECTORY (IN PLASTIC SLEEVE) FOR EACH EXISTING PANELBOARD.

J. ANY LOADS REMOVED DURING DEMOLITION SHALL HAVE CONDUCTORS REMOVED BACK TO NEXT REMAINING DEVICE OR TO EXISTING PANELS. ABANDONED BREAKERS SHALL BE LABELED "SPARE".

K. PROVIDE BLANK FILLER PLATES IN DEADFRONTS OF EXISTING PANELBOARDS UPON COMPLETION OF PROJECT WHERE BREAKERS HAVE BEEN REMOVED.

L. PROVIDE NEW PLASTIC, LAMINATED ENGRAVED NAMEPLATES FOR EACH EXISTING PANEL TO MATCH NEW PANELS.

EXISTING UTILITY POINT OF CONNECTIONS

A. CONTRACTOR TO PHYSICALLY WALK THE SITE AND VERIFY ALL UTILITY POINT OF CONNECTIONS FOR ALL UTILITIES I.E. POTHOLE EACH SIDE, FIELD VERIFY DEPTHS THROUGHOUT FOR ALL EXISTING UTILITIES.

B. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE ON BEHALF OF THE CONTRACTOR ON ACCOUNT OF AN ERROR ON HIS OR HER PART OF THEIR NEGLIGENCE OF FAILURE TO ACQUAINT THEMSELVES WITH THE CONDITIONS OF THE SITE, EXISTING UTILITY LOCATIONS AND EASEMENTS OR OF THE STREET OR ROADS APPROACHING THE SITE.

LEGEND

NOTE: INTERPRET IN CONTEXT

NOTE: SEE GENERAL ELECTRICAL NOTE 4 FOR WIRING DEVICE MOUNTING HEIGHTS

LIGHT FIXTURES

- CEILING SURFACEMOUNT
- WALL SURFACEMOUNT
- PENDANT MOUNT
- RECESSED DOWNLIGHT
- RECESSED WALLWASH
- RECESSED FLUOR.
- SURFACE FLUOR.
- FLUOR. STRIP UON
- TRACK LIGHT
- DIRECTIONAL FLOOD
- EMERGENCY FIXTURE
- POLE LIGHT
- POLE LIGHT- DECORATIVE
- UPLIGHT- FLUSH IN GRADE
- BOLLARD
- TANDEM-WIRED LAMPS
- UNDERCABINET LIGHT
- WALL/SURFACEMOUNT LINEAR TYPE
- PENDANT LINEAR FLUOR.
- RECESSED WALLMOUNT
- WALLPACK
- WALL MOUNTED EXIT LIGHT ON EMERGENCY BRANCH CIRCUIT
- CEILING MOUNTED EXIT LIGHT ON EMERGENCY BRANCH CIRCUIT (ARROW INDICATES DIRECTION)
- LETTER ADJACENT INDICATES FIXTURE TYPE
- SHADED LIGHT SYMBOL & "E" DESIGNATION INDICATE EMERGENCY FIXTURE ON EMERGENCY BRANCH CIRCUIT

MISCELLANEOUS

- MOTOR
- THERMOSTAT
- CIRCUIT BREAKER
- FUSIBLE SWITCH
- GROUND
- PHASE
- PUSHBUTTON
- FLUSHMOUNT PANEL
- SURFACEMOUNT PANEL
- FLUSHMOUNT CABINET
- SURFACEMOUNT CABINET
- TRANSFORMER
- DAMPER MOTOR
- HUMIDISTAT
- MAGNETIC CONTACTOR
- COMBINATION STARTER
- ABOVE-CLG J-BOX FOR MECHANICAL CONTROL POWER
- LOW VOLTAGE TRANSFORMER
- GROUND BUS BAR
- PUSHBUTTON

POWER/COMM.

- SINGLE RECEPT.
- DUPLEX RECEPT.
- DUPLEX- HALF SWITCHED
- DOUBLE DUPLEX
- 208V, 1Ø RECEPT
- DUPLEX RECEPT. W/ PLUG CONTROL
- QUAD RECEPT. W/ PLUG CONTROL
- FLOORMOUNT 208V, 1Ø RECEPT
- DUPLEX- FLOOR OUTLET
- GROUND FAULT CIRCUIT INTERRUPT
- MOUNTED ABOVE COUNTER
- NEMA 3R COVER (BELL # 1503 OR ENGINEER APPROVED EQUAL),
- WHILE-IN USE NEMA 3R COVER (TAYMAC #MX4280S OR ENGINEER APPROVED EQUAL), UON.
- CEILING MOUNTED OUTLET
- JUNCTION BOX
- TELEPHONE OUTLET
- DATA OUTLET
- PHONE/DATA COMBO OUTLET
- MOUNTED ABOVE COUNTER
- TELEVISION OUTLET
- SAFETY DISCONNECT
- DROP CORD RECEPT
- ABOVE-CLGMOUNT J-BOX
- TV OUTLET-FLOORMOUNT
- TELEPHONE FLOOR OUTLET
- DATA FLOOR OUTLET
- PHONE/DATA COMBO FLOOR OUTLET
- DATA OUTLET, WIRELESS ACCESS POINT
- 4 SQ J-BOX W/ PULL ROPE (F) COMM.
- RECESSED FLOOR BOX, SINGLE GANG
- RECESSED FLOOR BOX, DOUBLE GANG
- RECESSED FLOOR BOX, FOUR GANG
- SURGE PROTECTION DEVICE
- SMOKE FIRE DAMPER

SWITCHES (ALSO SEE SHT. E-003)

- SPST
- DPST
- 3-WAY
- 4-WAY
- DIMMER
- TIMER SWITCH
- W/THERMAL OVERLOAD
- W/PILOT LIGHT
- KEY OPERATED
- DUAL LEVEL SWITCHING
- SWITCHLEG DESIGNATION
- LINE VOLTAGE, OCCUPANCY SENSOR
- LOW VOLTAGE OCCUPANCY SENSOR
- LOW VOLTAGE LTNG. CNTRL. SW.
- ROOM LIGHTING CONTROL RELAY FOR DISTRIBUTED LIGHTING CONTROL
- ROOM RECEPTACLE CONTROL RELAY

CONDUIT/WIRE

- NEW
- UNDERGROUND
- NEW POWER HOMERUN (3 HOTS & NEUT SHOWN)
- ISOLATED GROUND
- EXISTING TO REMAIN
- (E) POWER HOMERUN
- WIRE LINE- CONTINUES
- CONDUIT STUB (W/MARKER)
- VERTICAL CONDUIT RUN
- CONDUIT SEAL
- FLEXIBLE CONNECTION
- LOW VOLTAGE
- SURFACEMOUNT RACEWAY
- INDICATES LINE CONTINUES
- CORD W/PLUG

SOUND/CLOCK

- SPEAKER- CLG FLUSHMOUNT
- SPEAKER- WALLMOUNT
- MICROPHONE INPUT
- AUXILIARY INPUT
- INTERCOM, WALL MOUNT
- HEADSET OUTLET
- VOLUME CONTROL
- SPEAKER- CLG FLUSHMOUNT VANDAL-RESISTANT
- CLOCK/SPEAKER WALLMOUNT SEMI-FLUSH
- PROJECTOR
- CLOCK
- WALL MOUNTED CLOCK

FIRE ALARM (ALSO SEE SHT. E-XXX)

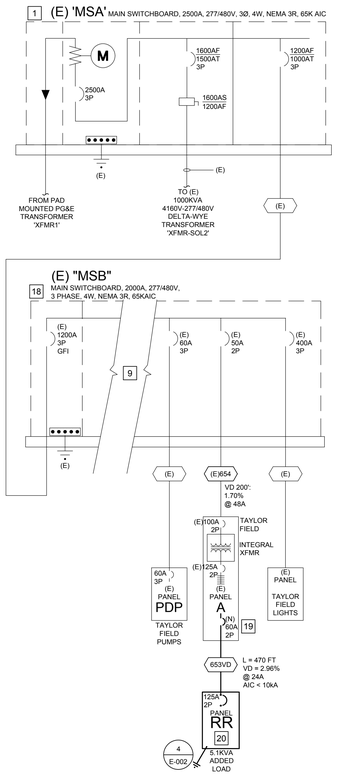
- FIRE ALARM CONTROL PANEL
- REMOTE POWER SUPPLY
- HORN- AUDIBLE DEVICE
- VISUAL DEVICE
- VISUAL - DEVICE-CEILING MOUNTED
- AUDIBLE (HORN) / VISUAL (STROBE)
- AUDIBLE/VISUAL-CEILING MOUNTED
- AUDIBLE (SPEAKER) / VISUAL (STROBE)
- AUDIBLE/VISUAL-CEILING MOUNTED
- AUDIBLE (SPEAKER)
- FLOW SWITCH
- TAMPER SWITCH
- MANUAL PULL STATION
- PULL STATION TAMPER PROOF (RESISTANT)
- SMOKE DETECTOR
- DUCT SMOKE DETECTOR
- HEAT DETECTOR
- BELL
- END OF LINE RESISTOR

CONVENTIONS

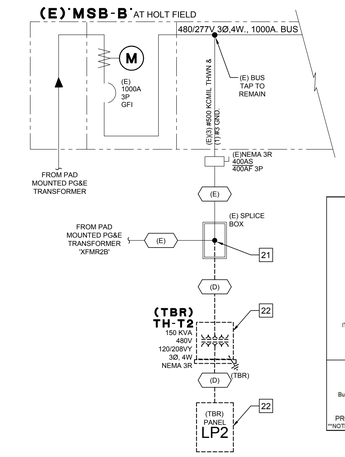
- X — NUMBERED SHEET NOTES: REFERS TO NOTES ON SAME SHEET AS REFERENCED
- Y / X — DETAIL REFERENCE: Y = DETAIL DESIGNATION, X = SHEET NUMBER REFERENCE
- 3103 — FEEDER SCHEDULE DESIGNATION (EXAMPLE: 3103 = 310 AMPERE, 600V, 3 CURRENT CARRYING CONDUCTORS; PREFIX: 'CO14' INDICATES CONDUIT ONLY, QUANTITY (1) AND SIZE (4").
- PLUMB-1 — PLUMBING EQUIPMENT TAG. REFER TO PLUMBING SHEETS FOR COORDINATION.
- Y / X — MECHANICAL EQUIPMENT DESIGNATION: Y = EQUIPMENT TYPE, X = EQUIPMENT NUMBER. REFER TO MECHANICAL SHEETS FOR COORDINATION.

ABBREVIATIONS

0-10V	ZERO TO TEN VOLT CONTROL	EM	EMERG BATTERY BACKUP	MFS	MAIN FUSIBLE SWITCH	STR'G	STORAGE
A	AMPERE	EMB	EMERGENCY BALLAST	MH	METAL HALIDE	SURF	SURFACE
AB	AMP BREAKER	EMERG	EMERGENCY	MLO	MAIN LUGS ONLY	SVC	SERVICE
ABAND	ABANDONED	EOL	END OF LINE	MOCP	MAXIMUM OCP	SW	SWITCH
ABV	ABOVE	EQUIP'T	EQUIPMENT	MSB	MAIN SWITCHBOARD	T	TRANSFORMER, TERMINAL
AC	ALTERNATING CURRENT	ES	ENERGY SAVING	MT	MOUNT	-T-	TELEPHONE CONDUIT
AC-#	AIR CONDITIONER	(EXN)	(E) IN (N)



PARTIAL CAMPUS ELECTRICAL SINGLE LINE DIAGRAM - "MSA" EAST SERVICE



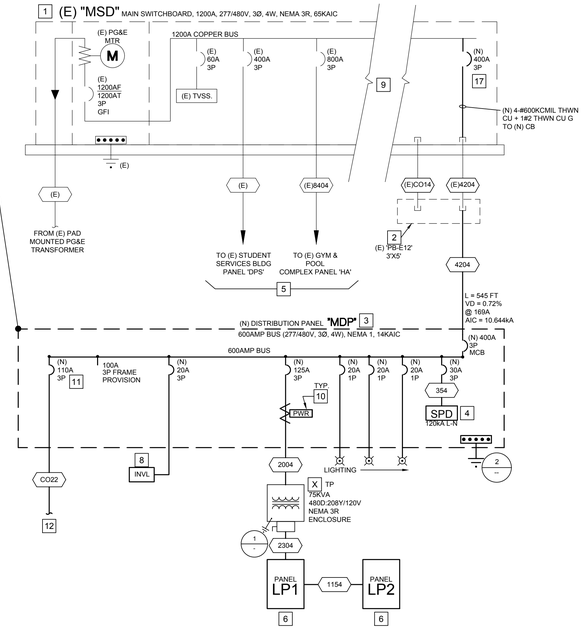
PARTIAL CAMPUS ELECTRICAL SINGLE LINE DIAGRAM - "MSB-B" HOLT FIELD SERVICE

SAN LUIS COSTAL UNIFIED SCHOOLD DISTRICT
SAN LUIS OBISPO HIGH SCHOOL - NEW CLASSROOM WING
Preliminary Electrical Load Estimate**

Proposed Building Square Footage: **7746** 1st Floor

				Notes
General Lighting:	0.6	Watts/SF	4.6 kVA	Estimate
Exterior Ltg./Signage:	3	kVA	3.0 kVA	Estimate
Long Continuous Load (LCL):	125	% of Lighting	1.9 kVA	
General Receptacles:	6	Watts/SF	46.5 kVA	Estimate
CEC 220-44 Receipt. Demand Factor	1st 10kW @ 100% Remainder @ 50%		10.0 kVA 18.2 kVA	CEC 220.44 Demand Factors
Mechanical/Plumbing Loads:				
Mechanical HVAC (Est. 300sqft/ton):	25.8	Tons@2.5kW	64.6 kVA	Estimate
(2) Elect. Water Heat:	12.5	kVA	12.5 kVA	Estimate
IT/Telecom/Low Voltage Equip./Copy-Fax:	10.0	kVA	10.0 kVA	Estimate
Kitchen Appliances:	0.0	kVA	0.0 kVA	No equipment assumed
EVSE (0 at 40A, 1ph):	0.0	kVA	0.0 kVA	None to be installed
Estimated Load:	124.8	kVA	16.1 W/SqFt	
Estimated Load:	347	Amperes at 120/208 Volt 3 Phase		
Additional Capacity (15%):	52	Amperes		
Building Total Est. Load w/ Spare Capacity:	399 18.5	Amperes at 120/208 Volt 3 Phase Watts / SqFt w/ Additional 15% Capacity		

PROPOSE A 400AMP, 120/208V, 3PH, 4W DISTRIBUTION PANEL
**NOTE: REFER TO PANEL SCHEDULES FOR EXACT LOADS. THIS TABLE IS ONLY AN ESTIMATE.



PARTIAL CAMPUS ELECTRICAL SINGLE LINE DIAGRAM "MSD" SOUTH SERVICE

NOTE: EQUIPMENT SHOWN AS (E) IS EXISTING AND (D) AS DEMO. EQUIPMENT NOT SHOWN AS (E) SHALL BE NEW.

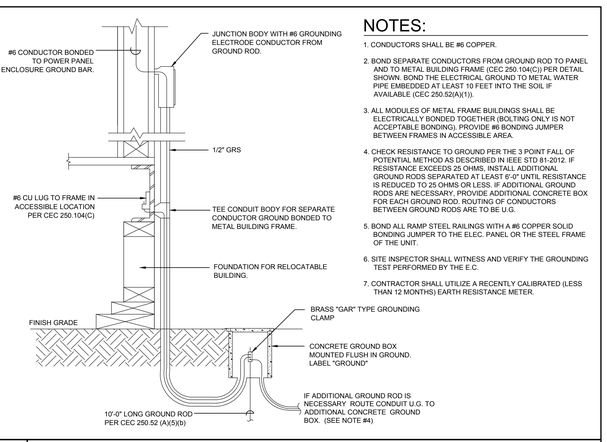
COPPER FEEDER SCHEDULE
(APPLIES TO ALL SINGLE LINE DIAGRAMS ON THIS SHEET)

FEEDER NO.	RACEWAY QUANTITY/SIZE	CONDUCTORS
(E)	EXISTING	EXISTING CONDUCTORS TO REMAIN.
(D)	DEMOLISH EXISTING*	REMOVE EXISTING CONDUCTORS.
(E)C014	(E)(1) 4"C	EXISTING CONDUIT ONLY WITH PULL ROPE TO REMAIN.
C022	(2) 2"C	CONDUIT ONLY W/ PULL ROPE.
354	(1) 3/4"C	(4) #10 THWN & (1) #10 GND.
322PV-2	(1) 1"C	(4) #10 THHN/THWN-2 & (1) #10 GND.
402PV	EXPOSED TO FREE AIR	(2) #10 PV WIRE (USE-2 XLP) & (1) #6 BARE CU GND.
402PVC	(1) 1"C	(2) #10 THHN/THWN-2 & (1) #10 GND.
653VD	(1) 1"C	(3) #4 THWN & (1) #6 GND.
(E)654	(E)(1) 1"C	(E)(4) #6 THWN & (1) #10 GND TO REMAIN.
1154	(1) 1-1/2"C	(4) #2 THWN & (1) #6 GND.
1302	(1) 1-1/2"C	(2) #1 THWN & (1) #6 GND.
1504	(1) 2"C	(4) #1/0 THWN & (1) #6 GND.
2004	(1) 2"C	(4) #3/0 THWN & (1) #6 GND.
(E)4204	(E)(1) 4"C	(N)(4) #600 KCMIL THWN & (1) #2 GND.
4204	(1) 4"C	(4) #600 KCMIL THWN & (1) #2 GND.
(E)8404	(E)(2) 4"C	(E)(4) #600 KCMIL THWN & (1) #1/0 GND. EACH TO REMAIN.

*NOTE: WHERE ROUTED BELOW GRADE, ABANDON IN PLACE.

☐ REFERENCE NOTES (APPLIES TO ALL SINGLE LINE DIAGRAMS ON THIS SHEET)

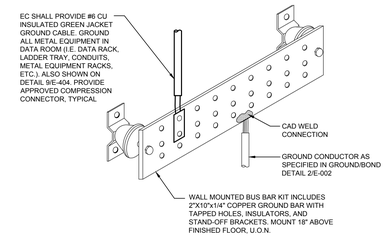
1. (E) MAIN ELECTRICAL SERVICE SWITCHBOARD TO REMAIN. REFER TO ELECTRICAL SITE PLAN FOR LOCATION.
2. (E) ELECTRICAL POWER VAULT TO REMAIN. LOCATION PER SITE PLAN.
3. (N) MAIN DISTRIBUTION PANEL "MDP". SURFACE MOUNT PER DETAIL 2/E-402.
4. FACTORY INSTALLED SURGE PROTECTION DEVICE. PROVIDE RATING OF DEVICE AS INDICATED.
5. (E) POWER FEEDERS TO (E) CAMPUS BUILDINGS TO REMAIN. NO MODIFICATION OR ADDED LOAD TO (E) CAMPUS PANELS.
6. (N) NEMA 1 ELECTRICAL PANELBOARD. REFER TO PANEL SCHEDULES FOR CONNECTED LOADS AND PANEL RATINGS.
7. (N) DRY TYPE TRANSFORMER .
8. 90-MINUTE EMERGENCY LIGHTING INVERTER SYSTEM W/ MANUAL MAINTENANCE BY-PASS SWITCH. SEE DETAIL 2/E-003 FOR FURTHER INFORMATION.
9. (E) LOADS ON (E) SWITCHBOARD TO REMAIN. NO LOAD TO BE ADDED TO OR REMOVED FROM (E) CIRCUITS ASIDE FROM THOSE INDICATED ON THIS DRAWING.
10. PROVIDE SPACE PROVISIONS FOR FUTURE MONITORING CURRENT TRANSFORMER (CT) OF SEPARATED LOADS. THE OPTIONAL METERING SHALL NOT BE PROVIDED AS PART OF THIS PROJECT. EXISTING CAMPUS POWER DISTRIBUTION SYSTEM IS NOT A COMPLETE REPLACEMENT (SEE CEnC 141.0(b)P.ii).
11. PHOTOVOLTAIC SYSTEM AND BATTERY ENERGY STORAGE SYSTEMS (BESS) BREAKER(S) SHALL BE PROVIDED AT THE OPPOSITE END OF THE BUS FROM THE MAIN BREAKER AND SIZED PER CEC 705.12(B)(2)(3)(B).
12. CONTRACTRO SHALL EXTEND (2) 2" CONDUIT ONLY FROM ELECTRICAL ROOM TO DESIGNATED SOLAR READY AREA.
13. NOT USED.
14. NOT USED.
15. NOT USED.
16. NOT USED.
17. PROVIDE (N) DISTRIBUTION CIRCUIT BREAKER IN (E) SERVICE SWITCHBOARD DISTRIBUTION SECTION. (N) BREAKER SHALL MATCH SWITCHBOARD MAKE AND A.I.C. RATING. LOCATE BREAKER AT OPPOSITE END OF BUS FROM THE MAIN BREAKER PER CEC 705.12(B)(2)(3)(B).
18. (E) SWITCHBOARD TO REMAIN. REFER TO ELECTRICAL SITE PLAN FOR LOCATION.
19. INSTALL (N) BREAKER (SIZE AS NOTED) IN (E) DISTRIBUTION SECTION OF PANEL 'A'. (N) BREAKER SHALL MATCH MAKE AND AIC OF (E) BREAKERS.
20. 125A, 120/240V, 1PH, 3W, NEMA 1, 125A MAIN BREAKER PANELBOARD PROVIDED AND INSTALLED BY BUILDING MANUFACTURER. REFER TO PANEL SCHEDULE ON BUILDING MANUFACTURER PROVIDED ELECTRICAL SHEETS FOR CONNECTED LOADS. EC SHALL CONNECT (N) POWER FEEDER TO SERVE PANEL AS SHOWN.
21. REMOVE (E) FEEDER SPLICE TO (E) TRANSFORMER 'TH-T2' IN (E) SPLICE BOX. LOCATION PER SHEET E-101.
22. DISCONNECT AND REMOVE (E) EQUIPMENT (LOCATION PER SITE PLAN). COORDINATE SALVAGE / DISPOSAL WITH DISTRICT MAINTENANCE STAFF.



NOTES:

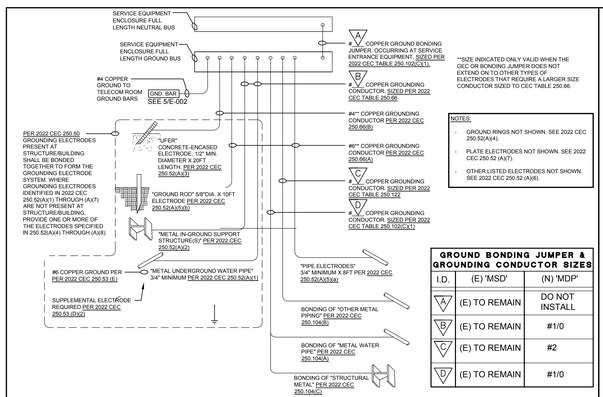
1. CONDUCTORS SHALL BE #6 COPPER.
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO PANEL AND TO METAL BUILDING FRAME (CEC 250.104(C)) PER DETAIL SHOWN. BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10 FEET INTO THE SOIL IF AVAILABLE (CEC 250.52(A)(1)).
3. ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING). PROVIDE #6 BONDING JUMPER BETWEEN FRAMES IN ACCESSIBLE AREA.
4. CHECK RESISTANCE TO GROUND PER THE 3 POINT FALL OF POTENTIAL METHOD AS DESCRIBED IN IEEE STD 81-2012. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS. IF ADDITIONAL GROUND RODS ARE NECESSARY, PROVIDE ADDITIONAL CONCRETE BOX FOR EACH GROUND ROD. ROUTING OF CONDUCTORS BETWEEN GROUND RODS ARE TO BE U.G.
5. BOND ALL RAMP STEEL RAILINGS WITH A #6 COPPER SOLID BONDING JUMPER TO THE ELEC. PANEL OR THE STEEL FRAME OF THE UNIT.
6. SITE INSPECTOR SHALL WITNESS AND VERIFY THE GROUNDING TEST PERFORMED BY THE E.C.
7. CONTRACTOR SHALL UTILIZE A RECENTLY CALIBRATED (LESS THAN 12 MONTHS) EARTH RESISTANCE METER.

4 RELOCATABLE BUILDING GROUNDING/BONDING
SCALE:



NOTE:
- PROVIDE A GROUND BAR PER THIS DETAIL IN CUSTOMER DATA ROOM.

5 TYP. TELECOM GROUND BAR



GROUND BONDING JUMPER & GROUNDING CONDUCTOR SIZES

I.D.	(E) 'MSD'	(N) 'MDP'
A	(E) TO REMAIN	DO NOT INSTALL
B	(E) TO REMAIN	#1/0
C	(E) TO REMAIN	#2
D	(E) TO REMAIN	#1/0

2 TYPICAL GROUND / BOND DETAIL



1 EQUIPMENT ARC FLASH SIGNAGE

SINGLE LINE DIAGRAM NOTES

A. ALL CONDUCTORS SHALL BE COPPER WITH TYPE [THHN/THWN] INSULATION UNLESS OTHERWISE NOTED.

B. ALL SWITCHES, CIRCUIT BREAKERS AND OTHER EQUIPMENT, AS SPECIFIED, SHALL HAVE TERMINATION PROVISIONS LISTED AND IDENTIFIED FOR USE WITH 75 DEG. CONDUCTORS, AND ALL FEEDER CONDUCTORS, AND CONDUITS, ARE SIZE BASED ON USE OF 75 DEG. C COPPER WIRES TYPE THWN/THHN.

C. DESIGN SHOWN IS BASED ON SQUARE D PRODUCT. ENGINEER-APPROVED EQUAL ALTERNATE PRODUCT WILL BE ACCEPTABLE.

D. ALL EQUIPMENT SHALL HAVE ARC FLASH WARNING LABELS PER DETAIL 1/E-002.

E. ALL EQUIPMENT SHALL HAVE AN APPROVED TESTING LABORATORY LABEL ATTACHED [UL, CSA, ETC.] (CEC 110-2).

F. PER CALIFORNIA TITLE 24 SECTION 130.5, WIRING PROVISIONS HAVE BEEN MADE FOR DISAGGREGATION OF THE ELECTRICAL CIRCUITS, THE OPTIONAL METERING HAS NOT BEEN PROVIDED FOR THIS PROJECT.

G. REFER TO PANEL SCHEDULES FOR INDIVIDUAL BRANCH CIRCUIT VOLTAGE DROP AND/OR SINGLE LINE DIAGRAM FOR FEEDER VOLTAGE DROP CALCULATIONS.

H. BRANCH CIRCUIT/FEEDER DISTANCE IS SHOWN FOR REFERENCE ONLY AS THE BASIS OF VOLTAGE DROP CALCULATIONS. CONDUCTOR DISTANCE AS INDICATED SHALL NOT BE USED FOR BIDDING/CONSTRUCTION PURPOSES. SHOULD THE FEEDER DISTANCE EXCEED THE LENGTH NOTED PER INSTALLATION CONDITIONS, NOTIFY THE ENGINEER OF RECORD.

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3562 EMPLEO ST.
SAN LUIS OBISPO, CA 93401
PHONE: (805) 543-3850
FAX: (805) 543-3829

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125456 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026

SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT
SAN LUIS OBISPO HIGH SCHOOL
1499 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93
NEW CLASSROOM BUILDING
& RELOCATION OF MODULAR RESTROOM

KBZ
KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELLAGA STREET SANTA BARBARA CA 93101
TELEPHONE (805) 963-1726 FAX (805) 963-2951
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MAT GRADIAS, AIA
PROJECT MANAGER

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ARCHITECT'S STAMP & SIGNATURE
LICENSED ARCHITECT JOE S. WILCOX No. AC-9808 Ren. 12/25 STATE OF CALIFORNIA

ENGINEER'S STAMP & SIGNATURE
REGISTERED PROFESSIONAL ENGINEER JEFFREY M. THOMA NO. 28823 ELECTRICAL STATE OF CALIFORNIA
EXP. 09/30/26

CONSULTANT INFORMATION

REF. 24-8089

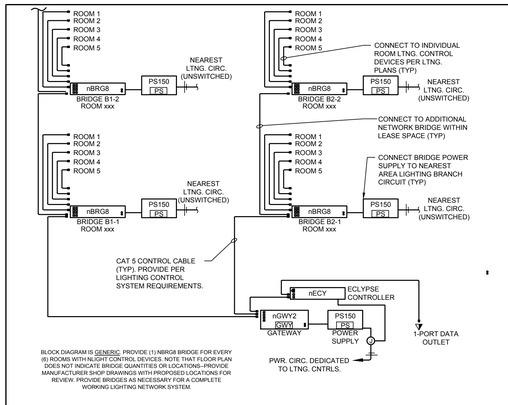
REVISION	DESCRIPTION	DATE	BY
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4			
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DRAWN JC/RP/TH
CHECKED JT
DATE 05/01/26
JOB. NO. 24010

SHEET TITLE: SINGLE LINE DIAGRAM

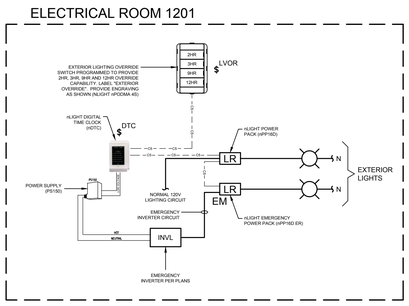
SHEET E-002

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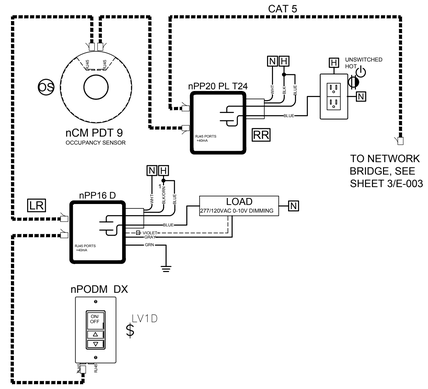
3 BLOCK DIAGRAM: TYPICAL LIGHTING CONTROL SYSTEM NETWORK

SCALE: NTS



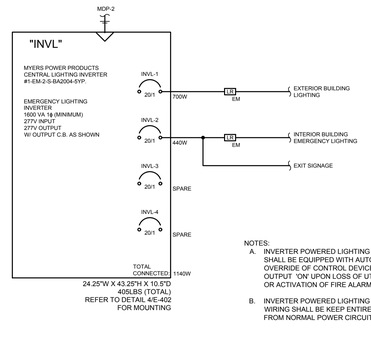
1 EXTERIOR BUILDING LIGHTING CONTROL DIAGRAM

SCALE: NTS



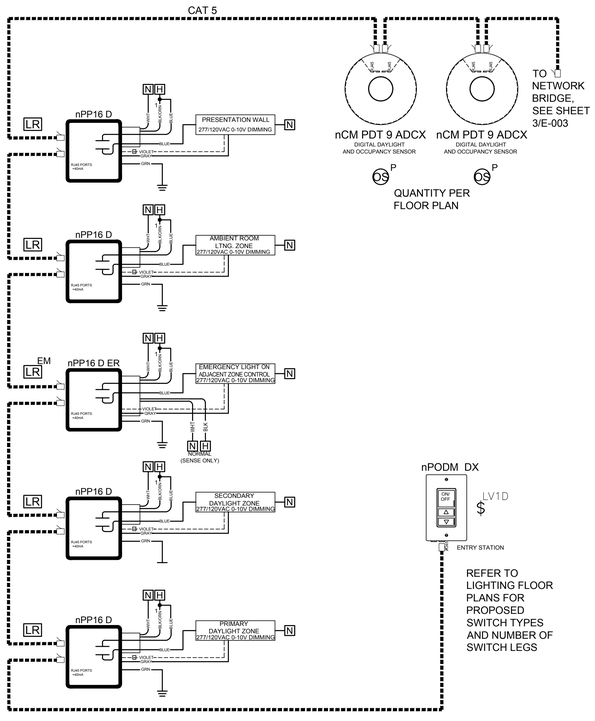
4 LIGHTING CONTROL: TYPICAL SMALL TO MEDIUM SIZE ROOM

SCALE: NTS



2 EMERGENCY LIGHTING INVERTER WIRING

SCALE: NTS



5 LIGHTING CONTROL: TYPICAL LARGE ROOM / CLASSROOM

SCALE: NTS

LUMINAIRE SCHEDULE

for SLCUSD SLO HS CLASSROOM BLDG.

TE# 24-8089

TYPE	ILLUSTRATION	MANUFACTURER	CATALOG NUMBER	VOLTAGE	TOTAL INPUT WATTS (W)	LAMP TYPE	NOMINAL LUMEN OUTPUT (L)	LAMP COLOR TEMP'T (K)	MOUNTING TYPE	MAX WEIGHT (LBS)	DESCRIPTION	REMARKS
A1/ A1E		LITHONIA	STAKP 2X4 4000LM 80CRI COL MVOLT	120/277	31	LED	4312	4000	RECESSED T-BAR (6 / E-402)	20	2'X4' LED TROFFER, 0-10V DIMMING TO 1%.	
B1/ B1E		LITHONIA	BLWP4 30L ADSM EZ1 LP840	120/277	25	LED	3000	4000	SURFACE (7 / E-402)	10	1'X4' LED SURFACE WRAP WITH 0-10V DIMMING TO 1% AND WHITE FINISH.	
S1/ S1E		BEACON LIGHTING	GEOPAK TRP1-24-20-4K-3-UNV	120/277	23	LED	3213	4000	WALL (7 / E-402)	14	ARCHITECTURAL LED WALL SCONCE WITH TYPE 3 DISTRIBUTION, ARCHITECTURAL SPACER, AND TEXTURED BLACK FINISH.	CONFIRM FINISH WITH ARCHITECT PRIOR TO ORDERING. B-1, U-0, G-0.
X1E		LITHONIA	LE-S-W-1-R	120/277	2	LED	N/A	N/A	WALL (7 / E-402)	5	LED EMERGENCY EXIT SIGN, WHITE HOUSING, SINGLE SIDED WHITE FACE, RED LETTERS.	MOUNT PER MANUFACTURERS RECOMMENDATIONS

NOTES
- LUMINAIRE SUPPLIED VOLTAGE TO BE VERIFIED BY ELECTRICAL CONTRACTOR.
- WHERE NOT SPECIFIED; FINISHES TO BE VERIFIED WITH ARCHITECT.
- FOR TYPE "E" FIXTURES: 90 MINUTE EMERGENCY BACKUP PROVIDED BY INVERTER.

LIGHTING FIXTURE SCHEDULE NOTES

1. ILLUSTRATIONS AND/OR DIMENSIONS ARE APPROXIMATIONS ONLY INTENDED TO REPRESENT BASIC FIXTURE TYPE; DO NOT USE AS EXACT INFORMATION SOURCE. REFER TO MANUFACTURER CUT SHEETS.
2. EXACT LOCATIONS: BEFORE CONSTRUCTION, VERIFY WITH ARCHITECT EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL LIGHT FIXTURES. SEE ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS AS APPLICABLE.
3. FIXTURE BRANCH CIRCUIT THROUGH-WIRING: VERIFY AND COMPLY WITH FIXTURE MANUFACTURER RESTRICTIONS AS DETERMINED BY UL & NEC.
4. VERIFY CEILING TYPES/FINISHES FOR ALL RECESSED FIXTURES PRIOR TO FORWARDING SUBMITTALS.
5. LIGHTING FIXTURES MAY COME DIMMABLE AS A STANDARD PRODUCT, BUT MAY NOT NECESSARILY BE USED IN DIMMING APPLICATIONS. WHEN USED IN DIMMING APPLICATIONS, PROVIDE COMPATIBLE DIMMING EQUIPMENT. REFER TO LIGHTING PLANS FOR FIXTURE DIMMING LOCATIONS.
6. ALL LIGHTING FIXTURES PROVIDED SHALL BE FULLY COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM PROVIDED (nLIGHT / SENSOR SWITCH ENABLED / COMPATIBLE). FOR CLARIFICATION, ALL REQUIRED EQUIPMENT MAY NOT NECESSARILY BE SHOWN; CONTRACTOR TO VERIFY AND INCLUDE INFORMATION IN SUBMITTAL SHOP DRAWINGS FOR REVIEW.
7. ALL SITE AND EXTERIOR LIGHTING FIXTURES TO BE PROVIDED AS 4000K COLOR TEMPERATURE RATED FIXTURES.
8. ALL BUILDING INTERIOR LIGHTING FIXTURES TO BE PROVIDED AS 4000K COLOR TEMPERATURE RATED FIXTURES.
9. DESIGN SHOWN IS BASED ON ACUITY AND HUBBELL BRAND PRODUCTS. SCHOOL DISTRICT / ENGINEER APPROVED GE LIGHTING BRAND EQUAL PRODUCTS ARE ACCEPTABLE FOR LIGHTING FIXTURES.
10. ALL LIGHTING FIXTURE SCREWS AND FASTENERS SHALL BE STAINLESS STEEL TYPE WITH AN ANTI-SIEZE COMPOUND APPLIED.
11. PROVIDE 10% SPARE DRIVERS FOR EACH TYPE OF LIGHTING FIXTURE PROVIDED OR A MINIMUM OF ONE SPARE DRIVER PER EACH TYPE OF FIXTURE (WHICHEVER IS GREATER) AS LOOSE ITEMS IN MANUFACTURERS PACKAGING TO THE OWNER. DELIVER PRODUCTS TO A LOCATION ACCEPTABLE TO THE OWNER.

LIGHTING CONTROLS SYMBOL LEGEND

SYMBOL	PRODUCT # nLIGHT (U.O.N.)	DESCRIPTION
OSD $	nWSX PDT LV DX	WALL SWITCH DECORATOR OCCUPANCY SENSOR-DUAL TECHNOLOGY (PDT), LOW VOLTAGE; ON / OFF / RAISE / LOWER CONTROL
LV1 $	nPOD M	1 CHANNEL ON/OFF TOGGLE CONTROL, LOW VOLTAGE
LV1D $	nPOD DX	1 CHANNEL ON/OFF TOGGLE WITH DIMMING LOW VOLTAGE; ON / OFF / RAISE / LOWER CONTROL
LV2D $	nPODM 2P DX	2 CHANNEL ON/OFF TOGGLE WITH DIMMING LOW VOLTAGE; ON / OFF / RAISE / LOWER CONTROL
LVDX $	nPODM 4P DX	4 CHANNEL ON/OFF TOGGLE WITH DIMMING LOW VOLTAGE; ON / OFF / RAISE / LOWER CONTROL
LVOR $	nPODMA 4S	4 BUTTON, 4 SCENE CONTROLLER FOR OVERRIDE OF EXTERIOR BUILDING MOUNTED LIGHTING. REFER TO DETAIL 1/E-003.
DTC $	nDTC WH	TOUCH SCREEN DIGITAL, ASTRONOMICAL TIME CLOCK THAT COMMUNICATES WITH NLIGHT NETWORK. REFER TO DETAIL 1/E-003.
K $	KEY	HUBBELL KEY WALL OPERATED SWITCH, REFER TO SPECIFICATIONS
LR	nPP16 D	16 AMP RELAY PACK WITH 0-10V DIMMING CONTROL; CHASE NIPPLE MOUNTING
EM LR	nPP16 D ER	16 AMP RELAY PACK WITH 0-10V DIMMING CONTROL; CHASE NIPPLE MOUNTING; UL 924 EMERGENCY OPERATION
RR	nPP20 PL T24	20 AMP RELAY PACK FOR PLUG LOAD CONTROL; CHASE NIPPLE MOUNTING
OS	nCM PDT 9	STANDARD RANGE 360° SENSOR-CEILING MOUNT, LOW VOLTAGE, DUAL TECHNOLOGY (PDT) OCCUPANCY SENSOR
P OS	nCM PDT 9 ADCX	STANDARD RANGE 360° SENSOR-CEILING MOUNT, LOW VOLTAGE, DUAL TECHNOLOGY (PDT), DAYLIGHT, OCCUPANCY SENSOR
OS $	Sensor Switch WSD-PDT	OCCUPANCY SENSOR WALL SWITCH, SINGLE-BUTTON, LINE VOLTAGE, DUAL TECHNOLOGY, STANDARD RANGE
2P,OS $	Sensor Switch WSD-PDT-2P	OCCUPANCY SENSOR WALL SWITCH, 2-BUTTON, LINE VOLTAGE, DUAL TECHNOLOGY, 2-POLE, STANDARD RANGE
OS	Sensor Switch CMR-PDT-9-2P	OCCUPANCY SENSOR, LINE VOLTAGE 360° CEILING MOUNT, DUAL TECH, STANDARD RANGE, DUAL RELAY (2ND RELAY TO CONTROL EF--PROGRAM SECOND RELAY CONTROLLING EF FOR 5 MINUTE DELAY OFF)
		CAT 5 CABLE W/ RJ45 CONNECTORS

NOTES:
A. VERIFY QUANTITY OF DEVICES REQUIRED TO PROVIDE COMPLETE COVERAGE AND CONTROL PER ROOM DIMENSIONAL REQUIREMENTS AND CONTROL FUNCTIONS SHALL SHOWN ON LIGHTING PLANS AND POWER PLANS.
B. PROVIDE A SHOP DRAWING OF THE BUILDING FLOOR PLANS WITH LAYOUT OF CONTROL DEVICES.

GENERAL NOTES

1. LIGHTING CONTROL NETWORK SYSTEM BASIS OF DESIGN IS ACUITY NLIGHT. ENGINEER AND OWNER APPROVED EQUAL SYSTEMS THAT ARE T24 ENERGY COMPLIANT WILL BE ACCEPTABLE.
2. QUANTITY AND LOCATION OF ALL SENSORS ARE SHOWN FOR DESIGN INTENT. LIGHTING CONTROL MANUFACTURER SHALL SUBMIT COMPLETE SHOP DRAWING SHOWING PREFERRED LOCATION AND QUANTITY OF SENSORS REQUIRED FOR OPTIMUM SYSTEM PERFORMANCE.
3. PROVIDE OCCUPANCY SENSOR, WALL OR CEILING MOUNTED AS SHOWN ON THIS PLAN WITH TYPE AND MODEL THAT CAN ACCOMMODATE THE SPACE REQUIREMENT FOR THE ROOM OR AREA.
4. FOR THE LIGHTING CONTROL SYSTEM: OPEN CABLE INSTALLATION OF CAT 5 IN ACCESSIBLE CEILING SPACE IS ACCEPTABLE. CONDUIT SLEEVES SHALL BE PROVIDE AT ANY AREAS WITH INACCESSIBLE OR HARD LID CEILINGS. CAT 5E CABLES SHALL BE GRAY IN COLOR.
5. OPEN CABLE INSTALLATION OF CAT 5E IN ACCESSIBLE CEILING SPACE SHALL BE INSTALLED IN AN ORGANIZED WORKMAN LIKE MANNER WITH J-HOOKS AND/OR CABLE SUPPORTS AT 8FT O.C. MAXIMUM.
6. 0-10V CONTROL CABLE SHALL BE 600V RATED #18 THWN CU, OR AS PER LIGHTING CONTROL MANUFACTURERS REQUIREMENTS. INSTALLED IN LIGHTING BRANCH CIRCUIT CONDUITS.
7. LOCATE CONTROL RELAYS ABOVE CEILINGS IN A CONSISTENT MANNER AT EACH ROOM TYPE. TYPICALLY LOCATE THE RELAYS ABOVE THE LIGHTING CONTROL SWITCH(ES).
8. PROVIDE USERS WITH LIGHTING CONTROL SYSTEM SENSORVIEW (OR APPROVED EQUAL) SOFTWARE ACCESS.
9. PROVIDE OWNER USERS WITH 4-HOUR TRAINING SESSION OF LIGHTING CONTROL SYSTEM FUNCTIONALITY, SYSTEM SETTINGS, DEMONSTRATE PROGRAMMING OF THE PROJECT SYSTEM, AVAILABLE ADJUSTMENTS, ETC. PROVIDE A FOLLOW UP TRAINING SESSION WITHIN 12-MONTHS AFTER OWNER TAKES OCCUPANCY OF BLDG.

LIGHTING CONTROLS SEQUENCE OF OPERATIONS

SPACE	LIGHTING CONTROL SEQUENCE
CORRIDORS CIRCULATIONS SPACES	• OCCUPANCY: LIGHTS AUTOMATICALLY TURN ONTO 100% WHEN THE USER ENTERS THE ROOM; 15 MINUTES AFTER SPACE HAS BEEN VACATED, THE LIGHTS WILL AUTOMATICALLY GO TO 50%. • LOW VOLTAGE DIMMER WILL ALLOW OCCUPANT TO CONTROL EACH ZONE. WALL STATION SHALL HAVE ONE BUTTON PER ZONE AS CALLED OUT ON PLAN. • EMERGENCY LIGHTING SHALL TURN ON WHEN NORMAL POWER SHUTS OFF • LIGHTS IN DAYLIGHT ZONES (WHERE NOTED ON PLANS) WILL AUTOMATICALLY DIM A MINIMUM OF 65% WHEN AVAILABLE DAYLIGHT IS 150% OF DESIGN ILLUMINATION.
CLASSROOMS OFFICES SUPPORT AREAS	• OFFICES AND SUPPORT AREAS: LIGHTS MUST BE TURNED ON MANUALLY BY OCCUPANT. • CLASSROOMS: LIGHTS AUTOMATICALLY TURN ONTO 100% WHEN THE USER ENTERS THE ROOM. • NUMBER OF ZONES OF LIGHTING CONTROL AS NOTED ON PLANS • MANUAL DIMMER (WHERE CALLED FOR) WILL ALLOW OCCUPANT TO CONTROL EACH ZONE. • LIGHTS IN DAYLIGHT ZONES (WHERE NOTED ON PLANS) WILL AUTOMATICALLY DIM A MINIMUM OF 65% WHEN AVAILABLE DAYLIGHT IS 150% OF DESIGN ILLUMINATION. • LIGHTS SHALL SHUT-OFF WHEN SPACES VACATED VIA OCCUPANCY SENSOR (20 MINUTE DELAY). • EMERGENCY LIGHTING (WHEN PRESENT) SHALL TURN ON WHEN NORMAL POWER SHUTS OFF
STORAGE	• OCCUPANCY: USER MANUALLY TURNS ON LIGHTS UPON ENTRY. 15 MINUTES AFTER THE ROOM HAS BEEN VACATED, THE LIGHTS WILL AUTOMATICALLY TURN OFF. • MANUAL DIMMER (WHERE CALLED FOR) WILL ALLOW OCCUPANT TO CONTROL THE LIGHTS
RESTROOM	• OCCUPANCY: LIGHTS AUTOMATICALLY TURN ONTO 100% WHEN THE USER ENTERS THE ROOM AND 15 MINUTES AFTER THE ROOM HAS BEEN VACATED, THE LIGHTS WILL AUTOMATICALLY TURN OFF. • MANUAL SWITCH WILL ALLOW OCCUPANT TO CONTROL THE LIGHTS. • EMERGENCY LIGHTING SHALL TURN ON WHEN NORMAL POWER SHUTS OFF

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1			

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SHEET TITLE: LUMINAIRE & LIGHTING CONTROL SCHEDULES & DIAGRAMS

SHEET: E-003

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MDP

BUS RATING: 400A 277/480V, 3PH, 4W
NEMA 1
AIC RATING: 10K

DIST (FT)	PANEL/LOAD	TRIP	POLES	COND SIZE	CONNECTED VA (AMPS) %VD PHASE A	PHASE B	PHASE C	CALC TYPE
20	TRANSFORMER TP	125	3	SLD	25000 (90.3A) 0.00%	25000 (90.3A) 0.00%	25000 (90.3A) 0.00%	
20	LIGHTING INVERTER UNIT INV/LntrEcy	20	1	SLD	1600 (5.8A) 0.00%	0	0	
	SPD	30	3	SLD	0	0	0	
100	LIGHTING	20	1	12	0	1820 (6.6A) 0.94%	0	
100	LIGHTING	20	1	12	0	0	1485 (5.4A) 0.77%	
	SPARE - FUTURE RELOCATABLES	100	3		20000 (72.2A)	20000 (72.2A)	20000 (72.2A)	
	SPARE	20	1		0	0	0	
	SPARE	110	3		0	0	0	
					0	0	0	
					0	0	0	
					0	0	0	
					0	0	0	
					0	0	0	
					0	0	0	
					0	0	0	
					0	0	0	
					0	0	0	
					0	0	0	
					0	0	0	
					0	0	0	
					0	0	0	
					0	0	0	
	KVA (AMPS):				46.60 (168.2A)	46.82 (169.0A)	46.49 (167.8A)	

Total KVA 139.91
Total Amps 168

SERVICE ENTRANCE
LISTED PANEL

VD CALCULATION TYPE
CON CONNECTED LOAD
CB 80% OF BREAKER RATING

(N) PANEL LP2

BUS RATING: 100A 120/208V, 3PH, 4W
MAIN: MLO MAIN LUG ONLY
SPACES: 42 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 22 KAIC PANEL

FLUSH MOUNT, NEMA 1
LOCATION: CLASSROOM 1209
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE A	PHASE B	PHASE C	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
		4	M	1	HPC-1.208	30	2	10	2372 720			12	1	20	CLASSROOM 1210	2	R			
		4	M	3	HPC-1.208		2	10		2372 720		12	1	20	CLASSROOM 1210	4	R			
		4	M	5	FC-1.208	15	2	12			676 600	12	1	20	CLASSROOM 1210	6	R			
		4	M	7	FC-1.208		2	12	676 720			12	1	20	CLASSROOM 1209	8	R			
		4	M	9	HPC-1.209	30	2	10		2372 720		12	1	20	CLASSROOM 1209	10	R			
		4	M	11	HPC-1.209		2	10			2373 600	12	1	20	CLASSROOM 1209	12	R			
		4	M	13	FC-1.209	15	2	12	676 720			12	1	20	CLASSROOM 1208	14	R			
		4	M	15	FC-1.209		2	12		676 720		12	1	20	CLASSROOM 1208	16	R			
		4	M	17	HPC-1.210	30	2	10			2372 720	12	1	20	CLASSROOM 1208	18	R			
		4	M	19	HPC-1.210		2	10	2372 360			12	1	20	BUILDING EXTERIOR	20	R			
		4	M	21	FC-1.210	15	2	12		676 0			1	20	SPARE	22				
		4	M	23	FC-1.210		2	12			676					24	N			
				25	SPARE	20	1		0 0							26				
				27	SPARE	20	1			0 0						28				
				29	SPARE	20	1				0 0					30				
				31	SPARE	20	1		0 0							32				
				33	SPARE	20	1			0 0						34				
				35	SPARE	20	1				0 0					36				
				37	SPARE	20	1		0 0							38				
				39	SPARE	20	1			0 0						40				
				41	SPARE	20	1				0 0					42				
								CON:	8616	8256	8017									
								25%:	0	0	0									
								SUB:	0	0	0									
								TOT:	8616	8256	8017									
								AMPS	72	69	67									

LOAD (VA)	LOAD TYPE LEGEND	
6600	R	RECEPTACLE
0	L	LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
18289	M	MECHANICAL
0	K	KITCHEN APPLIANCE
0	N	NON-CONTINUOUS MISC.
0	C	CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

(N) PANEL LP1

BUS RATING: 225A 120/208V, 3PH, 4W
MAIN: MLO MAIN LUG ONLY
SPACES: 60 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 22 KAIC PANEL

FLUSH MOUNT, NEMA 1
LOCATION: CLASSROOM 1205
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE A	PHASE B	PHASE C	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
		4	M	1	HPC-1.204	30	2	10	2372 720			12	1	20	CLASSROOM 1204	2	R			
		4	M	3	HPC-1.204		2	10		2372 720		12	1	20	CLASSROOM 1204	4	R			
		4	M	5	FC-1.204	15	2	12			676 600	12	1	20	CLASSROOM 1204	6	R			
		4	M	7	FC-1.204		2	12	676 720			12	1	20	CLASSROOM 1205	8	R			
		4	M	9	HPC-1.205	30	2	10		2372 720		12	1	20	CLASSROOM 1205	10	R			
		4	M	11	HPC-1.205		2	10			2372 600	12	1	20	CLASSROOM 1205	12	R			
		4	M	13	FC-1.205	15	2	12	676 720			12	1	20	CLASSROOM 1206	14	R			
		4	M	15	FC-1.205		2	12		676 720		12	1	20	CLASSROOM 1206	16	R			
		4	M	17	HPC-1.206	30	2	10			2372 600	12	1	20	CLASSROOM 1206	18	R			
		4	M	19	HPC-1.206		2	10	2372 720			12	1	20	CLASSROOM 1207	20	R			
		4	M	21	FC-1.206	15	2	12		676 720		12	1	20	CLASSROOM 1207	22	R			
		4	M	23	FC-1.206		2	12			676 600	12	1	20	CLASSROOM 1207	24	R			
		4	M	25	HPC-1.207	30	2	10	2372 720			12	1	20	BUILDING EXTERIOR	26	R			
		4	M	27	HPC-1.207		2	10		2372 360		12	1	20	ELECTRIC / FIRE RISER ROOM	28	R			
		4	M	29	FC-1.207	15	2	12			676 0		1	20	SPARE	30				
		4	M	31	FC-1.207		2	12	676 360			12	1	20	TOILET / CUSTODIAN	32	R			
		4	M	33	DS-1.201	20	2	12		1716 0			1	20	SPARE	34				
		4	M	35	DS-1.201		2	12			1716 0		1	20	SPARE	36				
		4	M	37	EF-1.201	20	1	12	20 0				1	20	SPARE	38				
				39	SPARE	20	1			0 0			1	20	SPARE	40				
		3	R	41	IT ROOM	20	1	12			500 1500	10	1	30	IT ROOM	42	R	3		
		3	R	43	IT ROOM	20	1	12	180 1500			12	1	20	WH-1	44	N	4		
		3	R	45	IT ROOM	20	1	12		180 0						46				
		3	N	47	FIRE SPKLR BELL	20	1	12			500 0					48				
				49	SPARE	20	1		0 0							50				
				51	SPARE	20	1			0 0						52				
				53	SPARE	20	1				0 0					54				
				55	PANEL LP2	100	3	SLD	8616 0							56				
				57	PANEL LP2		3	SLD		8616 0						58				
				59	PANEL LP2		3	SLD			8017 0					60				
								CON:	23420	22220	21405									
								25%:	0	0	0									
								SUB:	0	0	0									
								TOT:	23420	22220	21405									
								AMPS	195	185	178									

LOAD (VA)	LOAD TYPE LEGEND	
11960	R	RECEPTACLE
0	L	LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
27836	M	MECHANICAL
0	K	KITCHEN APPLIANCE
2000	N	NON-CONTINUOUS MISC.
0	C	CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

ELECTRICAL PANEL SCHEDULE NOTES

1. LONG CONTINUOUS LOAD (LCL): ADDITIONAL 25% ADDED AT BOTTOM OF PANEL. FEEDER CALCULATED AT 125% OF TOTAL CONNECTED LOAD.
2. ROUTE BRANCH CIRCUIT THROUGH LIGHTING CONTROLS.
3. PROVIDE RED HANDLE AND LOCKING DEVICE ON THIS CIRCUIT BREAKER.
4. VERIFY CIRCUIT BREAKER SIZE AND LOAD WITH SERVING EQUIPMENT APPROVED SUBMITTALS, PRIOR TO PURCHASING EQUIPMENT.

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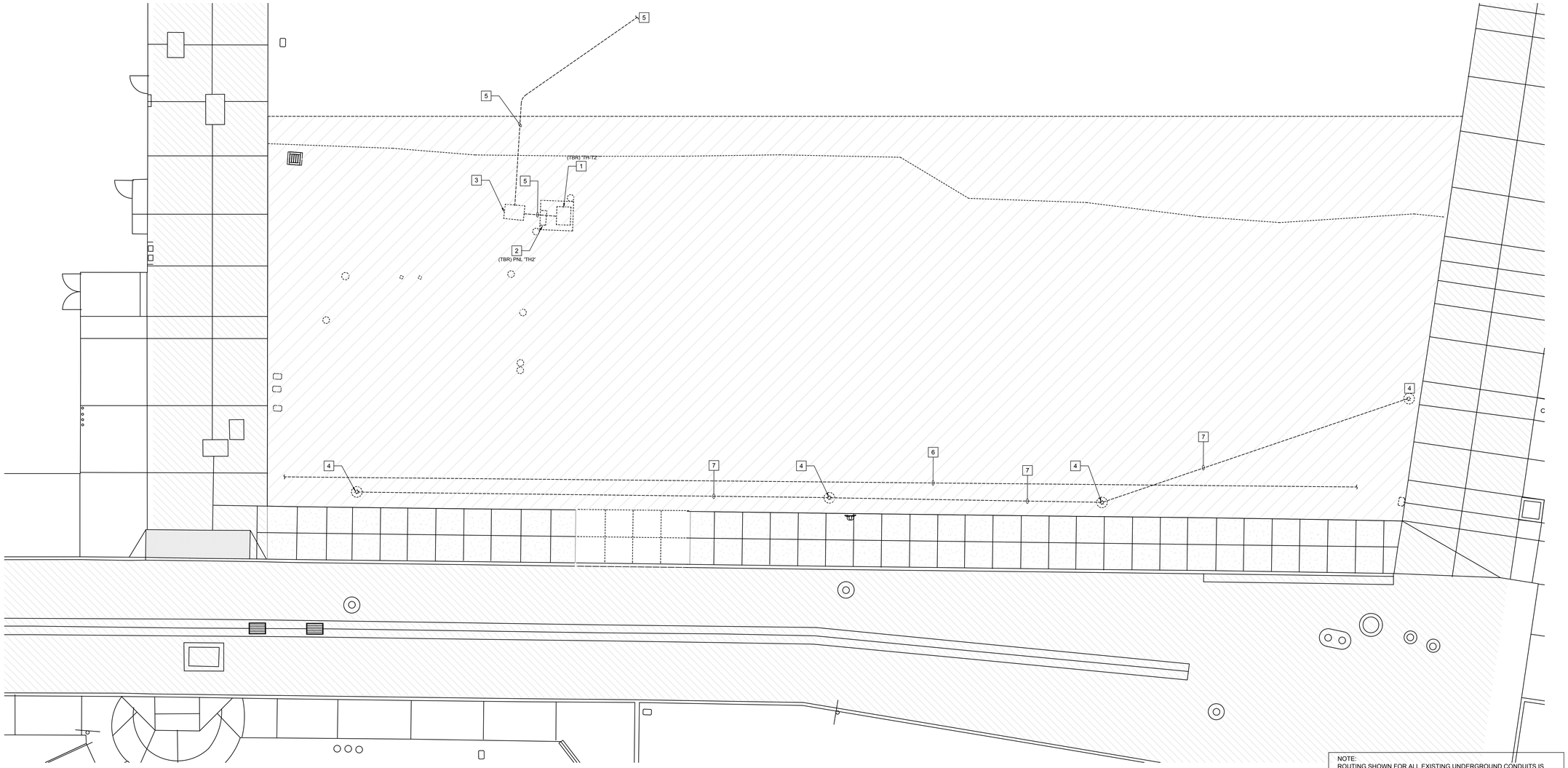
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SHEET TITLE PANEL SCHEDULES

SHEET E-004

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NOTE:
ROUTING SHOWN FOR ALL EXISTING UNDERGROUND CONDUITS IS APPROXIMATE. FIELD VERIFY EXISTING ROUTING AND LOCATION.

ENLARGED ELECTRICAL DEMOLITION SITE PLAN - CLASSROOM BLDG.

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

NORTH

REFERENCE NOTES

1. DISCONNECT AND REMOVE (E) TRANSFORMER 'TH-T2'. POWER SOURCE IS (E) 'MSB-B' TO THE WEST PER SHEET E-101. SAFE-OFF (E) FUSED DISCONNECT AT (E) 'MSB-B' PRIOR TO DEMOLITION; RE-ESTABLISH POWER AFTER REMOVAL TRANSFORMER AND ASSOCIATED FEEDER. PRIOR TO DISPOSAL OF EQUIPMENT BY EC, EC SHALL OFFER (E) EQUIPMENT TO DISTRICT FOR SALVAGE. OTHERWISE, EC SHALL PROPERLY DISPOSE OF (E) EQUIPMENT.
2. DISCONNECT AND REMOVE (E) PANEL 'TH2'. PRIOR TO DISPOSAL OF EQUIPMENT BY EC, EC SHALL OFFER (E) EQUIPMENT TO DISTRICT FOR SALVAGE. OTHERWISE, EC SHALL PROPERLY DISPOSE OF (E) EQUIPMENT.
3. REMOVE (E) IN-GRADE POWER PULLBOX. PRIOR TO DISPOSAL OF BOX BY EC, EC SHALL OFFER (E) BOX TO DISTRICT FOR SALVAGE. OTHERWISE, EC SHALL PROPERLY DISPOSE OF (E) BOX.
4. (E) LIGHT POLE TO BE RELOCATED, EXISTING CONCRETE BASE TO BE DEMOLISHED AND REMOVED, REFER TO ARCHITECTURAL PLANS FOR LOCATIONS.
5. (E)(1) 4"C WITH (3) #500 KCMIL THWN & (1) #3 GROUND TO BE DISCONNECTED AND REMOVED FROM (E) CONDUIT. WHERE CONDUIT IS ABOVE GRADE, DEMOLISH; WHERE BELOW GRADE, ABANDON IN PLACE.
6. EXISTING UNDERGROUND CONDUIT AND CABLING TO BE REMOVED AND REPLACED BACK TO SOURCE, RECORD DRAWINGS ARE NOT AVAILABLE THAT IDENTIFIES THIS INFRASTRUCTURE, CONTRACTOR TO PROVIDE COMPLETE FIELD VERIFICATION OF THIS INFRASTRUCTURE AND ASSOCIATED WORK.
7. EXISTING SITE LIGHTING FIXTURE UNDERGROUND CONDUIT AND CONDUCTORS TO BE REMOVED.

GENERAL SITE PLAN NOTES

A. TRENCHING AND BACKFILLING FOR ALL CONDUIT SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL CONDUITS SHALL HAVE MINIMUM COVER REQUIREMENTS AS SPECIFIED IN CEC 300.5. MORE STRINGENT DEPTH REQUIREMENTS MAY BE IMPOSED BY PROJECT SPECIFICATION. JOINT TRENCHING MAY BE UTILIZED WHERE PRACTICABLE AND WHERE PERMITTED BY THIS SPECIFICATION.

B. LOCATIONS OF EXISTING UNDERGROUND (UG) UTILITY SYSTEMS SHALL BE DETERMINED BY CALLING UNDERGROUND SERVICE ALERT (USA). WHEN PLANNING UNDERGROUND WORK, AND BEFORE YOU DIG, CONTACT UNDERGROUND SERVICE ALERT (USA) AT LEAST 48 HOURS PRIOR TO EXCAVATION (WEEKENDS EXCLUDED) FOR THE LOCATION OF UNDERGROUND GAS AND ELECTRIC LINES OR EQUIPMENT.

C. MAINTAIN REQUIRED CLEARANCES FROM ALL SANITARY SEWER, WATER AND STORM DRAIN PIPING. REFER TO CIVIL PLANS FOR EXACT LOCATIONS AND DEPTHS OF PIPING.

D. PUMPING OF EXCESS WATER FROM EXISTING PULL BOXES, IF REQUIRED, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COORDINATE WITH DISTRICT FOR APPROPRIATE DISPOSAL OF EXCESS WATER.

E. 6" WARNING TAPE TO BE SET IN ANY TRENCH WITH UTILITIES ALONG WITH TRACER WIRE, TYPICAL. IF MULTIPLE UTILITIES OCCUPY COMMON TRENCH, EC SHALL PROVIDE 6" TAPE FOR EACH UTILITY RUN. EACH TAPE MUST BE 6" WIDE, (2) RUNS OF 3" TAPE TAPED TOGETHER WILL NOT BE ACCEPTED BY DISTRICT/OWNER.

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REGISTERED PROFESSIONAL ENGINEER JEFFREY M. THOMA NO. 20823 ELECTRICAL STATE OF CALIFORNIA

EXP. 09/30/26 REF. 24-8089

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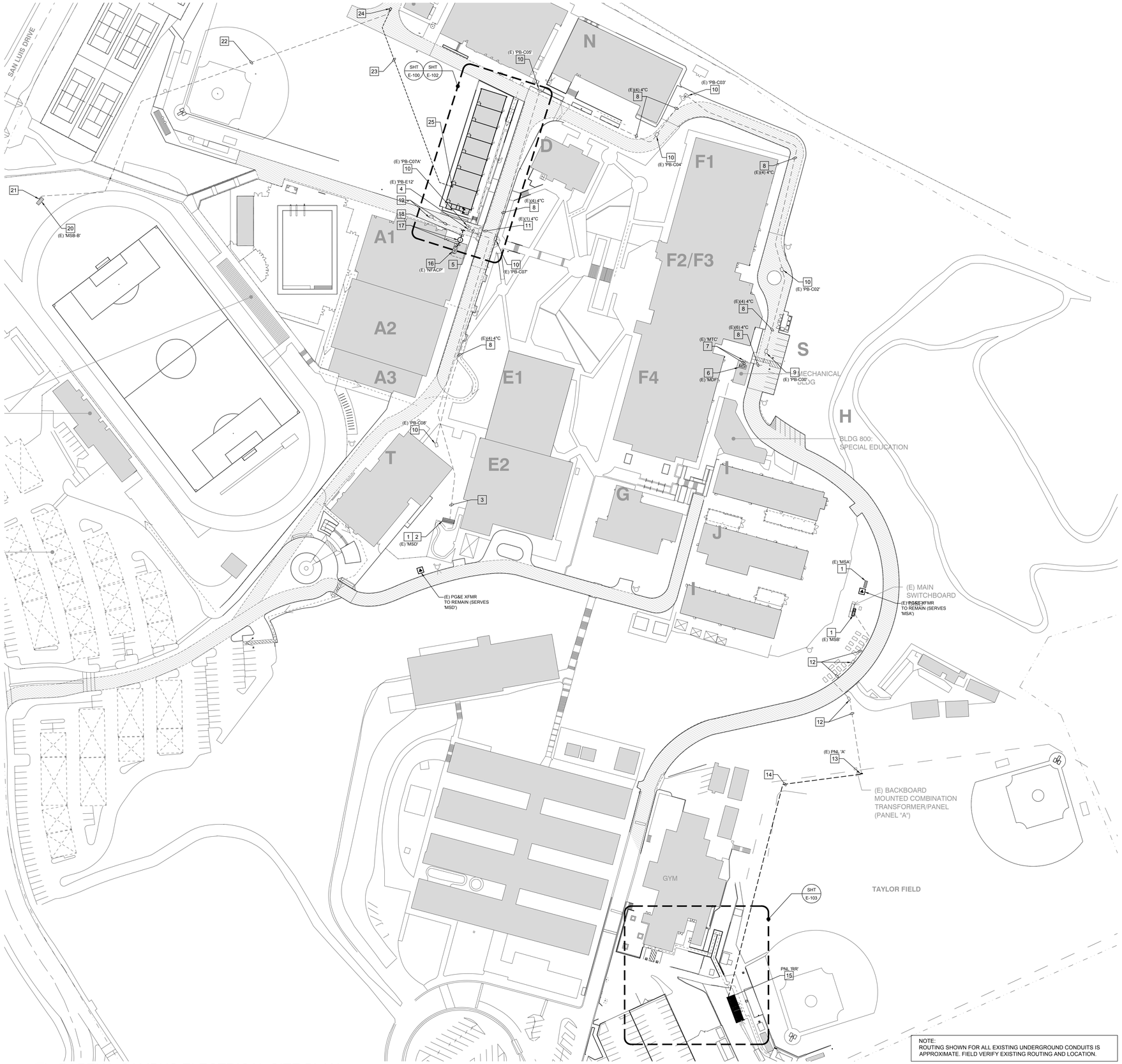
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DATE 06/01/26
JOB. NO. 24010

SHEET TITLE: ENLARGED ELECTRICAL DEMOLITION SITE PLAN - CLASSROOM BLDG.

SHEET E-100

K:\ENG\2024\24-8089\24-8089_E-100_ENLRG SITE DEMO CR.dwg - Roger - Jan 13, 2026 - 8:18am



NOTE:
ROUTING SHOWN FOR ALL EXISTING UNDERGROUND CONDUITS IS APPROXIMATE. FIELD VERIFY EXISTING ROUTING AND LOCATION.

PARTIAL CAMPUS ELECTRICAL SITE PLAN

SCALE: 1" = 60'-0"

NORTH

REFERENCE NOTES

1. (E) ELECTRICAL SWITCHBOARD TO REMAIN.
2. REFER TO SINGLE LINE DIAGRAM FOR (N) DISTRIBUTION BREAKER TO BE INSTALLED IN (E) SWITCHBOARD DISTRIBUTION SECTION TO SERVE (N) CLASSROOM BUILDING.
3. (E)(4) 4"C FOR POWER IN (E) UG TRENCH (2-4"C IN USE FOR BLDG 600 GYM, 2-4"C SPARES). UTILIZE (1) 4"C SPARE FOR (N) POWER FEEDER TO (N) CLASSROOM BUILDING ELECTRICAL PANEL 'MDP', PER SINGLE LINE DIAGRAM.
4. (E) 3'X5' IN-GRADE ELECTRICAL VAULT TO REMAIN. FIELD VERIFY LOCATION.
5. (E)(2) 4"C UG SPARE TO (E) POWER VAULT. FIELD LOCATE AND EXTEND (1) OF THE CONDUITS FROM (E) BOX TO (N) PANEL 'MDP' IN (N) CLASSROOM BUILDING ELECTRICAL ROOM. PULL (N) FEEDER IN CONDUIT PER SINGLE LINE DIAGRAM. REFER TO SHEET E-102 FOR CONTINUATION.
6. (E) CAMPUS MDF RACK TO REMAIN. PROVIDE (N) FIBER CONNECTIONS AT (E) MDF TO SERVE (N) IDF DATA RACK IN (N) CLASSROOM BUILDING PER COMMUNICATIONS RISER DIAGRAM.
7. (E) NEMA 3R BUILDING MOUNTED TELECOM MAIN TERMINAL CABINET 'MTC' TO REMAIN. UTILIZE (E) CONDUIT AND INDOOR OVERHEAD CABLE TRAY PATHWAYS BETWEEN 'MTC' AND 'MDF' FOR (N) PROJECT FIBER CABLING, PER COMMUNICATIONS RISER DIAGRAM.
8. (E) UNDERGROUND TELECOM CONDUITS (AS NOTED--FIELD VERIFY) TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. REFER TO COMMUNICATIONS RISER DIAGRAM FOR (N) FIBER CONTENT(S).
9. (E) 4'X6' IN-GRADE COMMUNICATIONS VAULT TO REMAIN. FIELD VERIFY LOCATION.
10. (E) 3'X5' IN-GRADE COMMUNICATIONS VAULT TO REMAIN. FIELD VERIFY LOCATION.
11. (E)(1) 4"C SPARE FOR TELECOM IN (E) UG TRENCH TO (E) COMM PULLBOX. FIELD LOCATE AND EXTEND CONDUIT FROM (E) BOX TO (N) CLASSROOM BUILDING IT ROOM. REFER TO COMMUNICATIONS RISER DIAGRAM FOR (N) FIBER CONTENT(S). REFER TO SHEET E-102 FOR CONTINUATION.
12. (E) UG POWER FEEDER AND POWER PULLBOXES TO (E) PANEL 'A' AT TAYLOR FIELDS TO REMAIN PER SINGLE LINE DIAGRAM.
13. (E) PANEL 'A' WITH INTEGRAL TRANSFORMER AND 120/240V DISTRIBUTION. INSTALL (N) DISTRIBUTION BREAKER TO SERVE (N) RESTROOM BUILDING PER SINGLE LINE DIAGRAM. FIELD VERIFY (E) PANEL 'A' LOCATION AND PHYSICAL BREAKER SPACE.
14. (N) POWER FEEDER IN UG CONDUIT TO PANEL 'RR' PER SINGLE LINE DIAGRAM.
15. ELECTRICAL PANEL BY BUILDING MANUFACTURER. CONNECT PER SINGLE LINE DIAGRAM.
16. (E) FIRE ALARM CONTROL PANEL 'NFACP' AND (E) 'C/DACT' CELLULAR DACT DIALER IN (E) GYM ELECTRICAL ROOM INSTALLED AS PART OF DSA A#03-116940 TO REMAIN (APPROXIMATE ROOM OUTLINE AS SHOWN). PROVIDE (N) FIRE ALARM CONNECTIONS TO (E) PANEL PER FIRE ALARM RISER DIAGRAM TO SERVE (N) CLASSROOM BUILDING FIRE ALARM SYSTEM.
17. PROVIDE (N) WALL PENETRATION AND (N) 2" LB CONDUIT BODY AT ~18"AFG FOR TRANSITION TO UG TRENCH. UTILIZE (N) PATHWAY FOR (N) FIRE ALARM CABLING PER FIRE ALARM RISER DIAGRAM. INSTALL (N)(1) 2"C IN ACCESSIBLE CEILING SPACE BETWEEN CONDUIT BODY AND INTERIOR (E) FACP LOCATION. REFER TO FIRE ALARM RISER DIAGRAM FOR CONTENT(S).
18. (N)(1) 2"C FOR FIRE ALARM IN UG TRENCH ROUTED TO (N) CLASSROOM BUILDING FIRE RISER ROOM FOR FIRE ALARM SYSTEMS USE. REFER TO FIRE ALARM RISER DIAGRAM FOR CONTENT(S). REFER TO SHEET E-102 FOR CONTINUATION.
19. (E) 3'X5' IN-GRADE POWER VAULT AND (E)(2) 4"C UG SERVING (E) GYM PANEL 'HA' TO REMAIN. FIELD LOCATE PROTECT IN PLACE DURING CONSTRUCTION.
20. (E) BALLFIELD METERED ELECTRICAL SERVICE "MSB-B" TO REMAIN.
21. (E) 400A FUSED DISCONNECT SWITCH MOUNTED TO (E) "MSB-B" EXTERIOR. SAFE-OFF DISCONNECT DURING TRANSFORMER 'TH-T2' AND ASSOCIATED FEEDER REMOVAL. TURN SWITCH BACK ON AFTER DEMOLITION WORK IS COMPLETE.
22. (E)(1) 4"C WITH (3) #500 KCMIL THWN & (1) #3 GROUND TO REMAIN.
23. (E)(1) 4"C WITH (3) #500 KCMIL THWN & (1) #3 GROUND TO BE DISCONNECTED AND REMOVED FROM (E) CONDUIT. WHERE CONDUIT IS ABOVE GRADE, DEMOLISH; WHERE BELOW GRADE, ABANDON IN PLACE.
24. (E) SPLICE BOX TO REMAIN. DISCONNECT (E) FEEDER SPLICE SERVING (E) TRANSFORMER 'TH-T2' SLATED FOR REMOVAL.
25. REFER TO SHEET E-100 FOR ELECTRICAL DEMOLITION WORK IN THIS AREA.

GENERAL SITE PLAN NOTES

A. TRENCHING AND BACKFILLING FOR ALL CONDUIT SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL CONDUITS SHALL HAVE MINIMUM COVER REQUIREMENTS AS SPECIFIED IN CEC 300.5. MORE STRINGENT DEPTH REQUIREMENTS MAY BE IMPOSED BY PROJECT SPECIFICATION. JOINT TRENCHING MAY BE UTILIZED WHERE PRACTICABLE AND WHERE PERMITTED BY THIS SPECIFICATION.

B. LOCATIONS OF EXISTING UNDERGROUND (UG) UTILITY SYSTEMS SHALL BE DETERMINED BY CALLING UNDERGROUND SERVICE ALERT (USA). WHEN PLANNING UNDERGROUND WORK, AND BEFORE YOU DIG, CONTACT UNDERGROUND SERVICE ALERT (USA) AT LEAST 48 HOURS PRIOR TO EXCAVATION (WEEKENDS EXCLUDED) FOR THE LOCATION OF UNDERGROUND GAS AND ELECTRIC LINES OR EQUIPMENT.

C. MAINTAIN REQUIRED CLEARANCES FROM ALL SANITARY SEWER, WATER AND STORM DRAIN PIPING. REFER TO CIVIL PLANS FOR EXACT LOCATIONS AND DEPTHS OF PIPING.

D. PUMPING OF EXCESS WATER FROM EXISTING PULL BOXES, IF REQUIRED, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COORDINATE WITH DISTRICT FOR APPROPRIATE DISPOSAL OF EXCESS WATER.

E. 6" WARNING TAPE TO BE SET IN ANY TRENCH WITH UTILITIES ALONG WITH TRACER WIRE, TYPICAL. IF MULTIPLE UTILITIES OCCUPY COMMON TRENCH, EC SHALL PROVIDE 6" TAPE FOR EACH UTILITY RUN. EACH TAPE MUST BE 6" WIDE, (2) RUNS OF 3" TAPE TAPED TOGETHER WILL NOT BE ACCEPTED BY DISTRICT/OWNER.

F. THE EXACT QUANTITY, LOCATION AND DEPTHS OF EXISTING UNDERGROUND PIPING AND CONDUITS IS UNKNOWN. FIELD VERIFY AND MAINTAIN EXISTING UTILITIES IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION AND EXCAVATION OPERATIONS.

G. REPAIR AND RECONNECT ALL EXISTING UNDERGROUND PIPING UNCOVERED AND DAMAGED BY NEW WORK AS REQUIRED TO MAINTAIN PROPER SYSTEM FUNCTIONS. RE-TEST ALL SYSTEMS DAMAGED BY NEW WORK.

H. SAWCUT AND PATCH ALL SURFACES TO MATCH EXISTING SURFACES (CONCRETE, AC PAVING, ETC.) AS REQUIRED FOR INSTALLATION OF NEW WORK. COMPLETE FIELD VERIFICATION OF THIS WORK IS REQUIRED BY CONTRACTOR. SAWCUT ENTIRE PANEL OUT AND REPLACE ENTIRE PANEL BETWEEN EXPANSION JOINTS(AS APPLICABLE).

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REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026

SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT

SAN LUIS OBISPO HIGH SCHOOL

1499 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93

NEW CLASSROOM BUILDING & RELOCATION OF MODULAR RESTROOM

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PRINCIPAL-IN-CHARGE
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PROJECT MANAGER

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EXP. 09/30/26 REF. 24-8089

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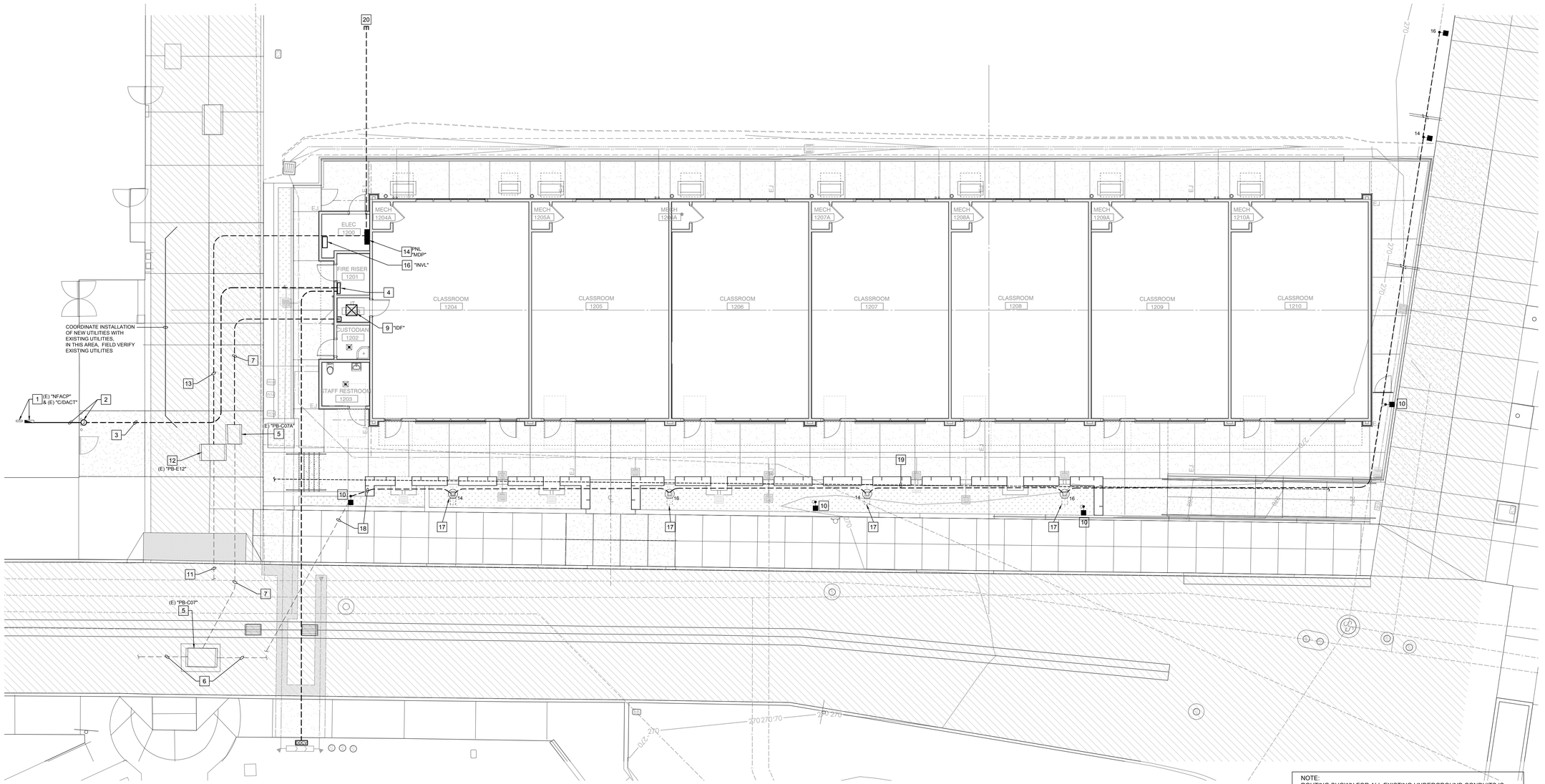
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DRAWN JC/RP/TH
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JOB. NO. 24010

SHEET TITLE: PARTIAL CAMPUS ELECTRICAL SITE PLAN

SHEET E-101

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ENLARGED ELECTRICAL SITE PLAN - CLASSROOM BLDG.

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

NORTH

REFERENCE NOTES

1. (E) FIRE ALARM CONTROL PANEL 'NFACP' AND (E) 'C/DACT' CELLULAR DACT DIALER IN (E) GYM ELECTRICAL ROOM INSTALLED AS PART OF DSA A#03-116940 TO REMAIN. PROVIDE (N) FIRE ALARM CONNECTIONS TO (E) PANEL PER FIRE ALARM RISER DIAGRAM TO SERVE (N) CLASSROOM BUILDING FIRE ALARM SYSTEM.
2. PROVIDE (N) WALL PENETRATION AND (N) 2" LB CONDUIT BODY AT ~18"AFG FOR TRANSITION TO UG TRENCH. UTILIZE (N) PATHWAY FOR (N) FIRE ALARM CABLING PER FIRE ALARM RISER DIAGRAM. INSTALL (N)(1) 2"C IN ACCESSIBLE CEILING SPACE BETWEEN CONDUIT BODY AND INTERIOR (E) FACP LOCATION. REFER TO FIRE ALARM RISER DIAGRAM FOR CONTENT(S).
3. (N)(1) 2"C FOR FIRE ALARM IN UG TRENCH ROUTED TO (N) CLASSROOM BUILDING FIRE RISER ROOM FOR FIRE ALARM SYSTEMS USE. REFER TO FIRE ALARM RISER DIAGRAM FOR CONTENT(S), INCLUDE (1) 2" SPARE CONDUIT.
4. (N) FIRE ALARM TERMINAL CABINET.
5. (E) 3'X5' IN-GRADE COMMUNICATIONS VAULT TO REMAIN. FIELD VERIFY LOCATION.
6. (E)(4) 4" UG TELECOM CONDUITS TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. REFER TO COMMUNICATIONS RISER DIAGRAM FOR (N) FIBER CONTENT(S), AS APPLICABLE. REFER TO SHEET E-101 FOR CONTINUATION.
7. (E)(1) 4"C SPARE FOR (N) TELECOM CABLING IN (E) UG TRENCH TO (E) COMM PULLBOX. REFER TO COMMUNICATIONS RISER DIAGRAM FOR (N) FIBER CONTENT(S), INCLUDE (1) 2" SPARE CONDUIT.
8. INSTALL (N)(1) 4"C UG FOR (N) FIBER CABLING TO (N) CLASSROOM BUILDING IDF RACK. REFER TO COMMUNICATIONS RISER DIAGRAM FOR (N) FIBER CONTENT(S). STUB CONDUIT 12" AFG IN (N) DATA ROOM CORNER AS SHOWN.
9. (N) IDF RACK. REFER TO SHEET E-202 FOR FURTHER INFORMATION. SEE COMMUNICATIONS RISER DIAGRAM SHEET E-301 FOR CONNECTIVITY REQUIREMENTS.
10. (E) LIGHT POLE TO BE RELOCATED. REFER TO ARCHITECTURAL PLANS FOR INFORMATION. PROVIDE NEW BRANCH CIRCUITS AS SHOWN.
11. (E)(2) 4"C UG SPARE TO (E) POWER VAULT. PULL (N) POWER FEEDER IN (E)(1) 4"C SPARE TO "MDP" PER SINGLE LINE DIAGRAM. REFER TO SHEET E-101 FOR CONTINUATION.
12. (E) 3'X5' IN-GRADE ELECTRICAL VAULT TO REMAIN. FIELD VERIFY LOCATION.
13. INSTALL (N) POWER FEEDER IN (N) UNDERGROUND ELECTRICAL CONDUIT AND SPARE CONDUIT PER THE ELECTRICAL SINGLE LINE DIAGRAM.
14. (N) NEMA1, BUILDING DISTRIBUTION PANEL--REFER TO SINGLE LINE DIAGRAM FOR FEEDER CONDUIT AND CONDUCTOR SIZE, AND PANEL SCHEDULE FOR CIRCUITED LOADS AND PANEL REQUIREMENTS.
15. (N) NEMA 1, BUILDING ELECTRICAL PANEL--REFER TO SINGLE LINE DIAGRAM FOR FEEDER CONDUIT AND CONDUCTOR SIZE, AND PANEL SCHEDULE FOR CIRCUITED LOADS AND PANEL REQUIREMENTS.
16. (N) EMERGENCY EGRESS LIGHTING INVERTER. SEE DETAIL 2/E-003 FOR WIRING REQUIREMENTS.
17. RELOCATED SITE LIGHTING FIXTURE, REFER TO ARCHITECTURAL DRAWINGS, PROVIDE NEW CONCRETE BASE PER 9/E-401.
18. INTERCEPT EXISTING SITE LIGHTING BRANCH CIRCUITS L100B-14,16, SPLICE, EXTEND AND CONNECT TO EXISTING AND RELOCATED LIGHTING FIXTURES AS SHOWN, USE #8AWG CONDUCTORS.
19. EXISTING UNDERGROUND CONDUIT AND CABLING TO BE REMOVED AND REPLACED BACK TO SOURCE, RECORD DRAWINGS ARE NOT AVAILABLE THAT IDENTIFIES THIS INFRASTRUCTURE, CONTRACTOR TO PROVIDE COMPLETE FIELD VERIFICATION OF THIS INFRASTRUCTURE AND ASSOCIATED WORK.
20. (2) 2" CONDUIT ONLY STUBS FOR FUTURE.

GENERAL SITE PLAN NOTES

A. TRENCHING AND BACKFILLING FOR ALL CONDUIT SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL CONDUITS SHALL HAVE MINIMUM COVER REQUIREMENTS AS SPECIFIED IN CEC 300.5. MORE STRINGENT DEPTH REQUIREMENTS MAY BE IMPOSED BY PROJECT SPECIFICATION. JOINT TRENCHING MAY BE UTILIZED WHERE PRACTICABLE AND WHERE PERMITTED BY THIS SPECIFICATION.

B. LOCATIONS OF EXISTING UNDERGROUND (UG) UTILITY SYSTEMS SHALL BE DETERMINED BY CALLING UNDERGROUND SERVICE ALERT (USA). WHEN PLANNING UNDERGROUND WORK, AND BEFORE YOU DIG, CONTACT UNDERGROUND SERVICE ALERT (USA) AT LEAST 48 HOURS PRIOR TO EXCAVATION (WEEKENDS EXCLUDED) FOR THE LOCATION OF UNDERGROUND GAS AND ELECTRIC LINES OR EQUIPMENT.

C. MAINTAIN REQUIRED CLEARANCES FROM ALL SANITARY SEWER, WATER AND STORM DRAIN PIPING. REFER TO CIVIL PLANS FOR EXACT LOCATIONS AND DEPTHS OF PIPING.

D. PUMPING OF EXCESS WATER FROM EXISTING PULL BOXES, IF REQUIRED, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COORDINATE WITH DISTRICT FOR APPROPRIATE DISPOSAL OF EXCESS WATER.

E. 6" WARNING TAPE TO BE SET IN ANY TRENCH WITH UTILITIES ALONG WITH TRACER WIRE, TYPICAL. IF MULTIPLE UTILITIES OCCUPY COMMON TRENCH, EC SHALL PROVIDE 6" TAPE FOR EACH UTILITY RUN. EACH TAPE MUST BE 6" WIDE, (2) RUNS OF 3" TAPE TAPED TOGETHER WILL NOT BE ACCEPTED BY DISTRICT/OWNER.

F. THE EXACT QUANTITY, LOCATION AND DEPTHS OF EXISTING UNDERGROUND PIPING AND CONDUITS IS UNKNOWN. FIELD VERIFY AND MAINTAIN EXISTING UTILITIES IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION AND EXCAVATION OPERATIONS.

G. REPAIR AND RECONNECT ALL EXISTING UNDERGROUND PIPING UNCOVERED AND DAMAGED BY NEW WORK AS REQUIRED TO MAINTAIN PROPER SYSTEM FUNCTIONS. RE-TEST ALL SYSTEMS DAMAGED BY NEW WORK.

H. SAWCUT AND PATCH ALL SURFACES TO MATCH EXISTING SURFACES (CONCRETE, AC PAVING, ETC.) AS REQUIRED FOR INSTALLATION OF NEW WORK. COMPLETE FIELD VERIFICATION OF THIS WORK IS REQUIRED BY CONTRACTOR. SAWCUT ENTIRE PANEL OUT AND REPLACE ENTIRE PANEL BETWEEN EXPANSION JOINTS(AS APPLICABLE).

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APP: 03-125456 INC:
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SAN LUS COASTAL UNIFIED SCHOOL DISTRICT

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SHEET TITLE: ENLARGED ELECTRICAL SITE PLAN - CLASSROOM BLDG.

SHEET E-102



ENLARGED ELECTRICAL SITE PLAN - RESTROOM BLDG.

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

NORTH

REFERENCE NOTES

1. REFER TO SHEET E-101 FOR CONTINUATION.
2. (N) POWER FEEDER IN UG CONDUIT TO PANEL 'RR' FROM (E) PANEL 'A' AND SPARE CONDUIT PER SINGLE LINE DIAGRAM.
3. ELECTRICAL PANEL BY BUILDING MANUFACTURER (VERIFY LOCATION PRIOR TO ROUGH-IN). CONNECT PER SINGLE LINE DIAGRAM. REFER TO BUILDING MANUFACTURER ELECTRICAL DRAWINGS AND PANEL SCHEDULE FOR CONNECTED LOADS.
4. REFER TO BUILDING MANUFACTURER SHEETS FOR ALL POWER AND LIGHTING DEVICES PROVIDED INTERIOR AND EXTERIOR TO BUILDING THAT ARE TO BE PROCURED AND INSTALLED BY THE BUILDING MANUFACTURER (NOT SHOWN ON THIS SHEET). EC SHALL PROVIDE BLANK COVER PLATE OVER ANY UNUSED OR ABANDONED OUTLET BACK-BOX LOCATIONS (FIELD VERIFY). MOREOVER, FOR ALL 15A AND 20A, 120V NON-LOCKING RECEPTACLES BEING SUPPLIED AS PART OF THE BUILDING MANUFACTURE SCOPE, CONTRACTOR SHALL VERIFY ALL (E) RECEPTACLES ARE TAMPER RESISTANT RECEPTACLES IN ACCORDANCE WITH CEC 406.12. CONTRACTOR SHALL REPLACE ANY THAT ARE NOT IN COMPLIANCE (FIELD VERIFY).
5. (2) 2" CONDUIT ONLY STUBS FOR FUTURE USE.

GENERAL SITE PLAN NOTES

A. TRENCHING AND BACKFILLING FOR ALL CONDUIT SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL CONDUITS SHALL HAVE MINIMUM COVER REQUIREMENTS AS SPECIFIED IN CEC 300.5. MORE STRINGENT DEPTH REQUIREMENTS MAY BE IMPOSED BY PROJECT SPECIFICATION. JOINT TRENCHING MAY BE UTILIZED WHERE PRACTICABLE AND WHERE PERMITTED BY THIS SPECIFICATION.

B. LOCATIONS OF EXISTING UNDERGROUND (UG) UTILITY SYSTEMS SHALL BE DETERMINED BY CALLING UNDERGROUND SERVICE ALERT (USA). WHEN PLANNING UNDERGROUND WORK, AND BEFORE YOU DIG, CONTACT UNDERGROUND SERVICE ALERT (USA) AT LEAST 48 HOURS PRIOR TO EXCAVATION (WEEKENDS EXCLUDED) FOR THE LOCATION OF UNDERGROUND GAS AND ELECTRIC LINES OR EQUIPMENT.

C. MAINTAIN REQUIRED CLEARANCES FROM ALL SANITARY SEWER, WATER AND STORM DRAIN PIPING. REFER TO CIVIL PLANS FOR EXACT LOCATIONS AND DEPTHS OF PIPING.

D. PUMPING OF EXCESS WATER FROM EXISTING PULL BOXES, IF REQUIRED, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COORDINATE WITH DISTRICT FOR APPROPRIATE DISPOSAL OF EXCESS WATER.

E. 6" WARNING TAPE TO BE SET IN ANY TRENCH WITH UTILITIES ALONG WITH TRACER WIRE, TYPICAL. IF MULTIPLE UTILITIES OCCUPY COMMON TRENCH, EC SHALL PROVIDE 6" TAPE FOR EACH UTILITY RUN. EACH TAPE MUST BE 6" WIDE, (2) RUNS OF 3" TAPE TAPED TOGETHER WILL NOT BE ACCEPTED BY DISTRICT/OWNER.

F. THE EXACT QUANTITY, LOCATION AND DEPTHS OF EXISTING UNDERGROUND PIPING AND CONDUITS IS UNKNOWN, FIELD VERIFY AND MAINTAIN EXISTING UTILITIES IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION AND EXCAVATION OPERATIONS.

G. REPAIR AND RECONNECT ALL EXISTING UNDERGROUND PIPING UNCOVERED AND DAMAGED BY NEW WORK AS REQUIRED TO MAINTAIN PROPER SYSTEM FUNCTIONS. RE-TEST ALL SYSTEMS DAMAGED BY NEW WORK.

H. SAWCUT AND PATCH ALL SURFACES TO MATCH EXISTING SURFACES (CONCRETE, AC PAVING, ETC.) AS REQUIRED FOR INSTALLATION OF NEW WORK. COMPLETE FIELD VERIFICATION OF THIS WORK IS REQUIRED BY CONTRACTOR. SAWCUT ENTIRE PANEL OUT AND REPLACE ENTIRE PANEL BETWEEN EXPANSION JOINTS(AS APPLICABLE).

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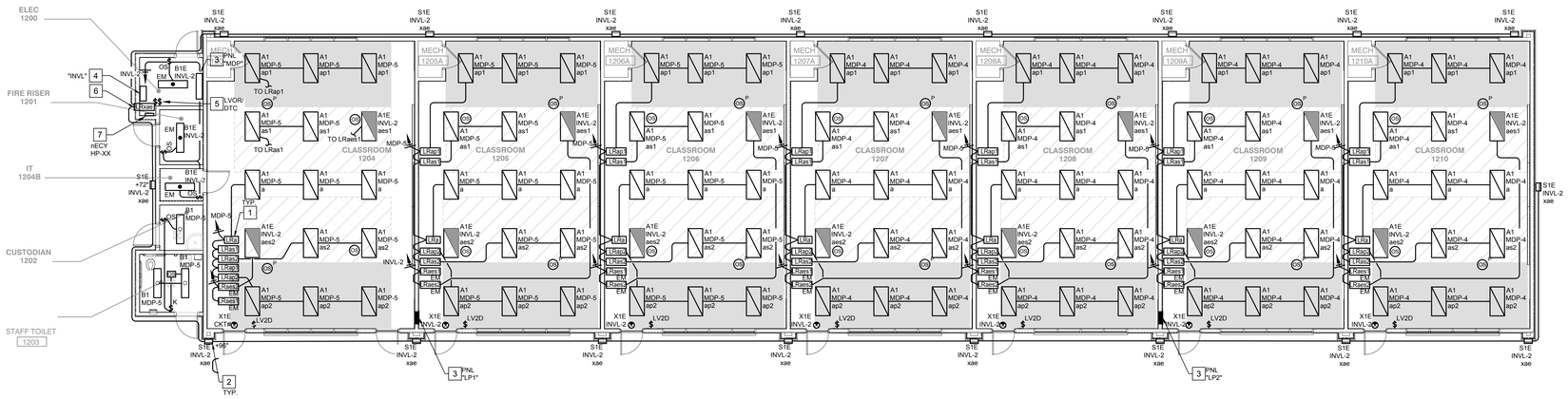
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SHEET TITLE: ENLARGED ELECTRICAL SITE PLAN – RESTROOM BLDG.

SHEET E-103

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NOTE:
FOR CLARIFICATION, HOMERUNS HAVE NOT BEEN SHOWN ON THIS SHEET, CONTRACTOR TO PROVIDE ALL REQUIRED HOMERUNS DEDICATED FOR EACH HVAC UNIT, REFER TO PANEL SCHEDULES AND SINGLE LINE DIAGRAM FOR CONDUCTORS SIZES



LIGHTING FLOOR PLAN - CLASSROOM BLDG.

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

NORTH

REFERENCE NOTES

1. (N) NLIGHT LIGHTING CONTROL RELAY PACK TO SATISFY CA ENERGY CODE INTERIOR LIGHTING CONTROL REQUIREMENTS. LOCATE IN A CONCEALED, ACCESSIBLE SPACE (NOT NECESSARILY WHERE SHOWN ON PLAN). REFER TO SHEET E-003 FOR LIGHTING CONTROL SYSTEM LEGEND AND NLIGHT SYSTEM WIRING DIAGRAMS INCLUDING LINE VOLTAGE WIRING. TEXT ADJACENT TO "LR" (WHERE PROVIDED) IN RELAY PACK SYMBOL INDICATES SWITCH LEGS BEING CONTROLLED (I.E., "LRa1" IS RELAY FOR SWITCH LEG 'a' LUMINAIRES) IN A GIVEN ROOM/SPACE. RELAY PACK WEIGHT IS 0.33LBS.
2. MOUNT TYPE "S1E" FIXTURES AT 96" AFG UNLESS NOTED OTHERWISE.
3. (N) BUILDING ELECTRICAL PANEL SHOWN FOR REFERENCE ONLY IN RELATION TO LIGHTING BRANCH CIRCUITING. REFER TO PANEL SCHEDULE FOR CIRCUITED LOADS AND PANEL REQUIREMENTS.
4. (N) EMERGENCY EGRESS LIGHTING INVERTER. SEE DETAIL 2/E-003.
5. (N) EXTERIOR BUILDING MOUNTED LIGHTING LOW VOLTAGE OVERRIDE SWITCH AND DIGITAL TOUCHSCREEN TIME CLOCK. REFER TO DETAIL 1/E-003.
6. (N) ACUITY NLIGHT RELAY PACK FOR EXTERIOR LIGHTING CONTROL. REFER TO DETAIL 1/E-003.
7. (N) NLIGHT ECLYPSE LIGHTING CONTROLLER. SEE DETAIL 3/E-003.

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DATE: 07/01/2026

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NEW CLASSROOM BUILDING & RELOCATION OF MODULAR RESTROOM

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EXP 09/30/26 REF. 24-8089

CONSULTANT INFORMATION

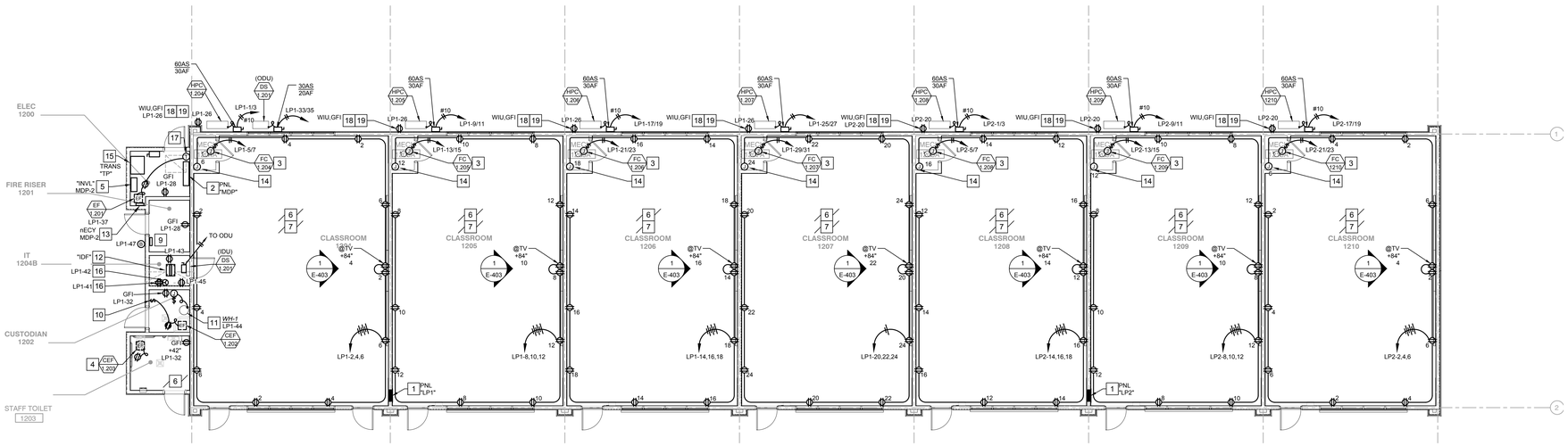
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JOB. NO. 24010

SHEET TITLE LIGHTING FLOOR PLAN - CLASSROOM BLDG.

SHEET E-201

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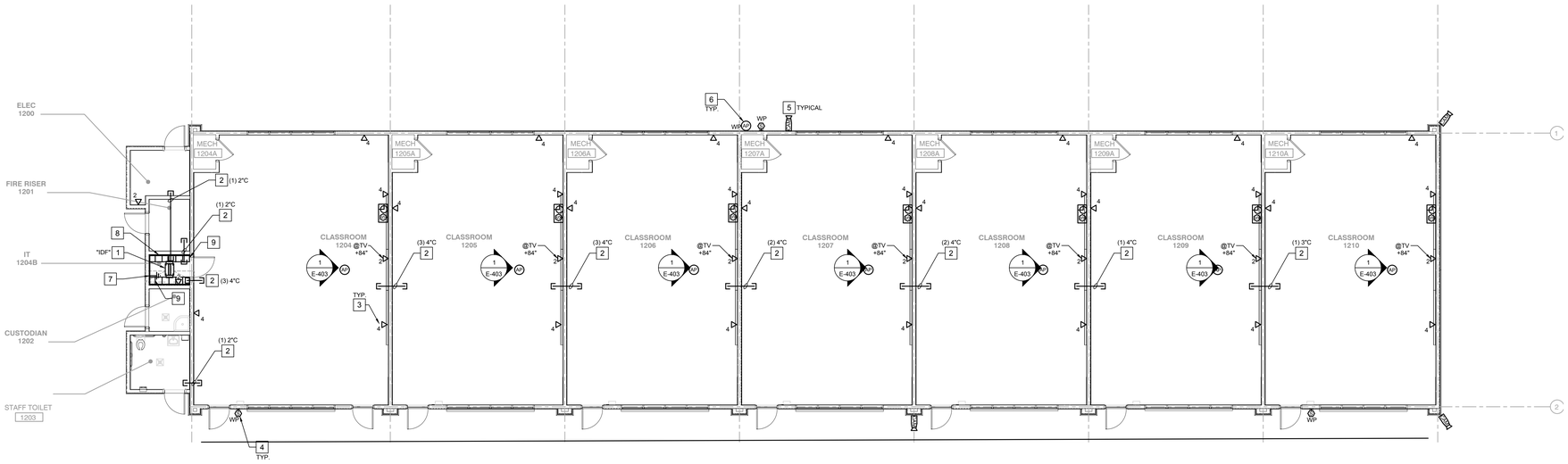
POWER FLOOR PLAN - CLASSROOM BLDG.

NORTH

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

REFERENCE NOTES - POWER

1. (N) NEMA 1, BUILDING ELECTRICAL PANEL--REFER TO SINGLE LINE DIAGRAM FOR FEEDER CONDUIT AND CONDUCTOR SIZE, AND PANEL SCHEDULE FOR CIRCUITED LOADS AND PANEL REQUIREMENTS. MOUNT PER DETAIL 1/E-402.
2. (N) NEMA1, BUILDING DISTRIBUTION PANEL--REFER TO SINGLE LINE DIAGRAM FOR FEEDER CONDUIT AND CONDUCTOR SIZE, AND PANEL SCHEDULE FOR CIRCUITED LOADS AND PANEL REQUIREMENTS. MOUNT PER DETAIL 2/E-402.
3. PROVIDE LINE VOLTAGE CONNECTION TO FAN COIL UNIT FACTORY DISCONNECT SWITCH PER MECHANICAL PLANS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. UNIT ELECTRICAL REQUIREMENTS ARE 208V, 1PH, 60HZ, 6.5 MCA, 15A MOCP, UNLESS NOTED OTHERWISE. VERIFY WITH SUPPLIED EQUIPMENT.
4. INTERLOCK EXHAUST FAN TO LIGHTING IN RESTROOM VIA LINE VOLTAGE, 2-RELAY/POLE OCCUPANCY SENSING CEILING UNIT (WITH KEYED SWITCH ON/OFF). REFER TO SHEET E-201 FOR RESTROOM LIGHTING CONTROL METHOD REQUIRED AND SWITCH LOCATION. PROVIDE WITH 5-MINUTE TIME DELAY OFF FOR EXHAUST, PER MECHANICAL PLANS.
5. (N) EMERGENCY EGRESS LIGHTING INVERTER. SEE DETAIL 4/E-402 FOR MOUNTING AND DETAIL 2/E-003 FOR WIRING REQUIREMENTS.
6. RECEPTACLES IN THIS ROOM SHALL BE TAMPER RESISTANT TYPE.
7. ELECTRICAL CONTRACTOR SHALL PROVIDE PORTABLE ASSISTED LISTENING SYSTEM KIT PER DETAIL 5/E-404, TO SERVE THIS ASSEMBLY AREA (CLASSROOM), PER CBC 11B-219. PROVIDE ASSISTED LISTENING SIGNAGE IN ACCORDANCE WITH ARCHITECTURAL PLANS.
8. PROVIDE WEATHER PROOF, TAMPER RESISTANT GFI RECEPTACLE FOR GROUNDS MAINTENANCE WITH LOCKABLE, WHILE-IN-USE COVER.
9. FIRE ALARM TERMINAL CABINET.
10. PROVIDE ON/OFF, 120V, 20A TOGGLE SWITCH CONTROL OF EXHAUST FAN PER MECHANICAL. LABEL WALL SWITCH "CEF-1202".
11. PROVIDE LINE VOLTAGE CONNECTION TO WATER HEATER PER PLUMBING PLANS. ROUTE CIRCUIT THROUGH 120V, 20A TOGGLE SWITCH LOCAL TO UNIT. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. UNIT ELECTRICAL REQUIREMENTS ARE 120V, 1PH, 60HZ, 1500W, UNLESS NOTED OTHERWISE. VERIFY WITH SUPPLIED EQUIPMENT.
12. INTERMEDIATE DISTRIBUTION FRAME 'IDF'. SEE 2/E-403 FOR MOUNTING REQUIREMENTS, AND COMMUNICATIONS RISER DIAGRAM SHEET E-301 FOR CONNECTIVITY REQUIREMENTS.
13. (N) NLIGHT ECLYPSE LIGHTING CONTROLLER. SEE DETAIL 3/E-003.
14. PER MECHANICAL CONTROL DRAWINGS, PROVIDE 120VAC POWER TO 50VA THERMOSTAT CONTROL TRANSFORMER. COORDINATE LOCATION WITH MECHANICAL.
15. ELECTRICAL TRANSFORMER, SEE SINGLE LINE DIAGRAM.
16. VERIFY POWER OUTLET LOCATION AND MOUNTING HEIGHT (IN RELATION TO THE IDF RACK) WITH DISTRICT IT DEPARTMENT PRIOR TO ROUGH-IN.
17. LINE VOLTAGE THERMOSTAT FOR CONTROL OF ROOM EXHAUST FAN, PER MECHANICAL. ROUTE EXHAUST FAN 120V POWER THROUGH THERMOSTAT. CONFIRM LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
18. HVAC SERVICE EQUIPMENT RECEPTACLE OUTLET REQUIRED WITHIN 25' OF EQUIPMENT, PER CEC 210.63 & CMC 303.8.5(2).
19. PROVIDE WEATHER PROOF, TAMPER RESISTANT GFI RECEPTACLE FOR GROUNDS MAINTENANCE WITH LOCKABLE, WHILE-IN-USE COVER.



COMMUNICATIONS FLOOR PLAN - CLASSROOM BLDG.

NORTH

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

REFERENCE NOTES - COMMUNICATIONS

1. INTERMEDIATE DISTRIBUTION FRAME 'IDF'. 2-POST DATA RACK. SEE 2/E-403 FOR MOUNTING REQUIREMENTS, 1/E-404 FOR HARDWARE REQUIREMENTS AND ELEVATION, AND COMMUNICATIONS RISER DIAGRAM SHEET E-301 FOR CONNECTIVITY REQUIREMENTS.
2. PROVIDE CONDUIT CHASE(S) IN ACCESSIBLE CEILING SPACE BETWEEN ROOMS FOR COMMUNICATIONS CABLING (SIZE AS NOTED). WHERE APPLICABLE, ALIGN HEIGHT WITH LADDER TRAY IN ADJACENT ROOM. REFER TO DETAIL 3 & 5/E-402.
3. ALL DATA OUTLETS SHOWN, UNLESS NOTED OTHERWISE, ARE (4) PORT OUTLETS WITH (4) DATA DROPS PER OUTLET PER THE COMMUNICATIONS DEVICE SCHEDULE E-300.
4. INSTALL (N) SURFACE MOUNTED WEATHERPROOF INTERCOM SPEAKER WITH MINIMUM (1) 3/4"C PATHWAY TO ACCESSIBLE CEILING SPACE FOR DATA CABLING. CONTRACTOR FURNISHED AND INSTALLED DEVICE. PROVIDE (1) CAT6 CABLE (WHITE) WITH FEMALE TERMINATION FOR POE CAPABLE DEVICE, HOMERUN TO IDF INSIDE BUILDING. SPEAKER SHALL BE A MINIMUM OF 78" AFG UNLESS OTHERWISE DIRECTED BY ARCHITECT/OWNER; VERIFY MOUNTING HEIGHT WITH DISTRICT PRIOR TO ROUGH-IN.
5. OWNER FURNISHED, CONTRACTOR INSTALLED UNDER-CANOPY OR CORNER MOUNT POE CAMERA (APPLICATION DEPENDENT); REFER TO DETAIL 4/E-403 AND COMMUNICATIONS RISER DIAGRAM. BASIS OF DESIGN CAMERA IS HIKVISION P/N DS-2CD6D54FWD-IZHS. DISTRICT PROVIDED MOUNTING HARDWARE VARIES ON APPLICATION--'WMP-L' WALL MOUNT HARDWARE FOR VERTICAL FLAT SURFACE MOUNT APPLICATIONS, 'JBPW-L + CMP' CORNER MOUNT HARDWARE FOR CORNER MOUNT APPLICATIONS, OR FACTORY PROVIDED MOUNTING HOLES ON TOP OF UNIT FOR CEILING/UNDER-CANOPY MOUNT APPLICATIONS. EC SHALL PROVIDE WEATHER-PROOF 5S BACKBOX A MINIMUM OF 84" AFG UNLESS OTHERWISE DIRECTED BY ARCHITECT/OWNER; VERIFY ROUGH-IN MOUNTING HEIGHT (WHERE WALL MOUNTED) AND LOCATION WITH DISTRICT PRIOR TO PROCEEDING WITH WORK.
6. (N) OUTDOOR WIRELESS ACCESS POINT MOUNTED TO BUILDING EXTERIOR; HARDWARE TO BE PROVIDED BY DISTRICT STAFF AND INSTALLED BY CONTRACTOR. EC SHALL PROVIDE (N) 6" SQUARE, FLUSH-MOUNTED, WEATHERPROOF JUNCTION BOX WITH 2-PORT BISCUIT WITH DATA OUTLETS TERMINATED AND READY FOR CONNECTION. REFER TO DETAIL 6/E-301 FOR MOUNTING REQUIREMENTS.
7. TELECOM MAIN GROUND BUSBAR 'TMGB' MOUNTED TO NEW FIRE RATED BACKBOARD. PROVIDE #6AWG CU BETWEEN ALL SEGMENTS OF METAL EQUIPMENT IN DATA ROOM (I.E. DATA RACK, TRAY, CONDUITS, METAL EQUIPMENT RACKS, ETC.) BONDED BACK TO "TMGB" USING MANUFACTURER'S APPROVED GROUNDING MEANS. REFER TO 2/E-002.
8. (N) 3/4" THICK, 8' HIGH 1-HOUR FIRE RATED PLYWOOD BACKBOARD ALONG ENTIRE LENGTH OF REAR AND BOTH SIDE WALLS IN DATA ROOM. BACKBOARD SHALL BE PAINTED MATTE WHITE WITH TWO COATS OF FIRE RESISTANT PAINT WITH THE FIRE RATED STAMPS VISIBLE. COORDINATE WITH ELECTRICAL PRIOR TO ROUGH-IN. SEE DETAIL 6/E-404.
9. 12" WIDE LADDER TRAY (CHATSWORTH 12" WIDE UNIVERSAL CABLE RUNAWAY 10250-X12 SERIES OR APPROVED EQUIVALENT), WALL MOUNTED PER 3/E-403. EC SHALL PROVIDE JUNCTION SPLICES, RACK TO RUNWAY MOUNTING PLATE, AND WALL ANGLE SUPPORT KITS. EC SHALL USE #6 AWG CONDUCTOR AND MANUFACTURER APPROVED MECHANICAL BONDING CONNECTORS BETWEEN ALL SEGMENTS OF CABLE-TRAY AND CABLE-TRAY ACCESSORIES.

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EXP. 09/30/26 REF. 24-8089

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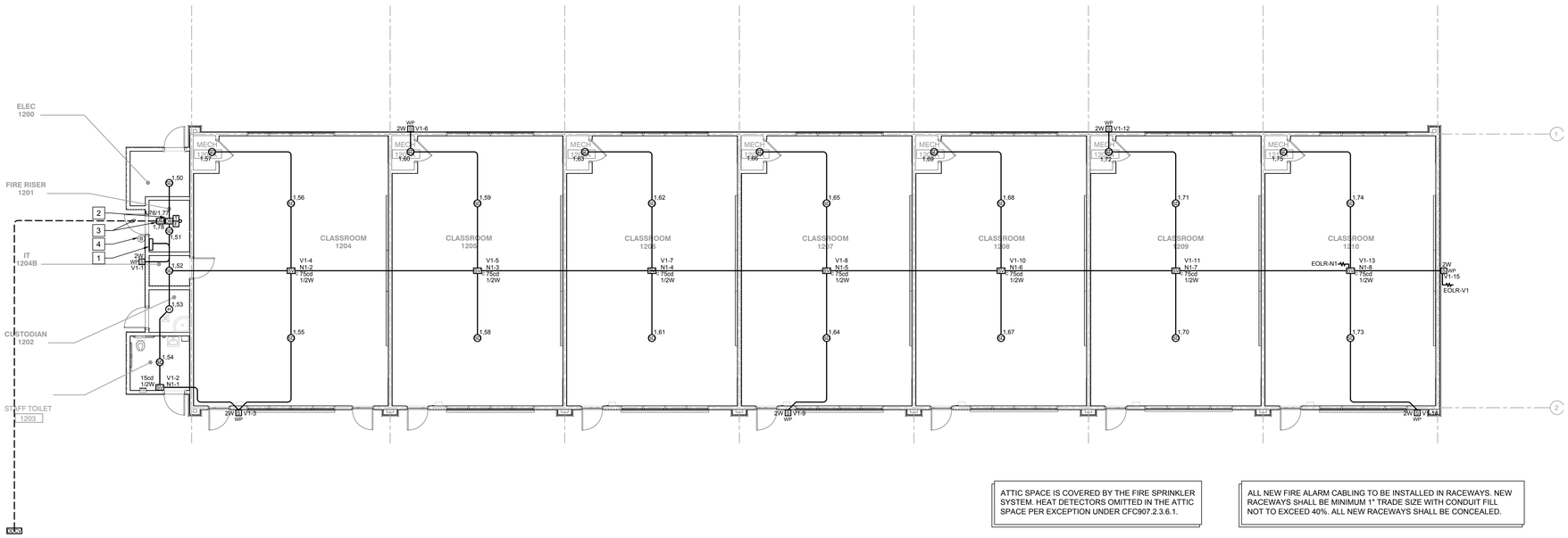
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SHEET TITLE: POWER & COMMUNICATIONS FLOOR PLAN – CLASSROOM BLDG.

SHEET E-202

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ATTIC SPACE IS COVERED BY THE FIRE SPRINKLER SYSTEM. HEAT DETECTORS OMITTED IN THE ATTIC SPACE PER EXCEPTION UNDER CFC907.2.3.6.1.

ALL NEW FIRE ALARM CABLING TO BE INSTALLED IN RACEWAYS. NEW RACEWAYS SHALL BE MINIMUM 1" TRADE SIZE WITH CONDUIT FILL NOT TO EXCEED 40%. ALL NEW RACEWAYS SHALL BE CONCEALED.

FIRE ALARM FLOOR PLAN - CLASSROOM BLDG.

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

NORTH

REFERENCE NOTES

1. FIRE ALARM TERMINAL CABINET.
2. PROVIDE FIRE ALARM DUAL MONITOR MODULE AT FIRE SPRINKLER RISER TAMPER AND FLOW SWITCH. FIELD VERIFY EXACT LOCATION AND COORDINATE WITH SPRINKLER VENDOR.
3. PROVIDE FIRE ALARM MONITOR MODULE AND 3/4" UNDERGROUND CONDUIT WITH FIRE ALARM CONDUCTORS TO FIRE SPRINKLER DOUBLE DETECTOR CHECK VALVE (DDCV). FIELD VERIFY LOCATION AND COORDINATE CONNECTIONS WITH FIRE SPRINKLER VENDOR.
4. FIRE SPRINKLER SYSTEM BELL. SEE FIRE SPRINKLER DRAWINGS FOR ADDITIONAL INFORMATION.

GENERAL FIRE ALARM NOTES

1. (N) FIRE ALARM DEVICES INSTALLED PER MANUFACTURER'S SPECIFICATION.
2. REFER TO FIRE ALARM RISER DIAGRAM E-501 FOR SYMBOL LEGEND AND SYSTEM WIRING.
3. MINIMUM DISTANCE TO SMOKE DETECTORS FROM AIR SUPPLY SHALL BE 3'-0". SMOKE DETECTOR INSTALLATION SHALL BE AS CLOSE TO PLAN AS POSSIBLE WITH MEETING THE 3'-0" RULE.
4. ALL FIRE ALARM CABLING SHALL BE ROUTED IN CONDUIT.

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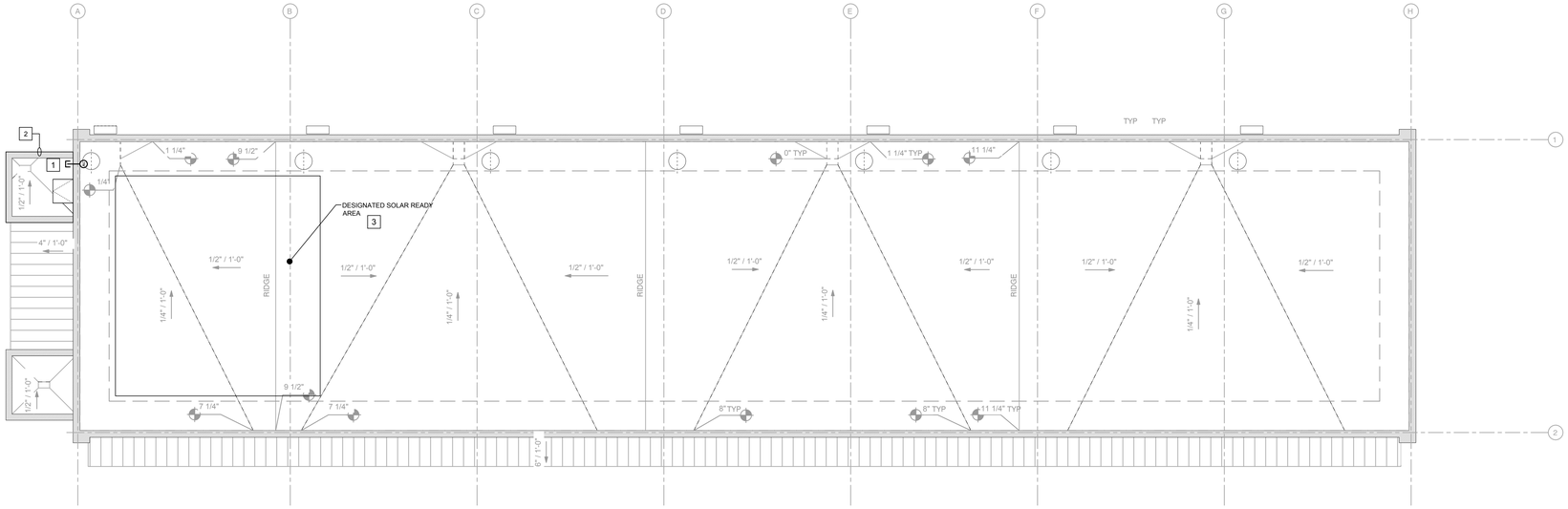
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SHEET TITLE FIRE ALARM FLOOR PLAN - CLASSROOM BLDG.

SHEET E-203



POWER ROOF PLAN - CLASSROOM BLDG.

NORTH

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

REFERENCE NOTES

1. CONTRACTOR SHALL EXTEND (2) 2"C.O. FOR POWER AND (1) 1" C.O. FOR MONITORING FROM ELECTRICAL ROOM TO ROOF FOR FUTURE PHOTOVOLTAIC SYSTEM.
2. OUTLINE OF ELECTRICAL ROOM BELOW.
3. AREA SHOWN IS RESERVED FOR FUTURE PHOTOVOLTAIC SYSTEM (SOLAR READY AREA).

GENERAL ROOF PLAN NOTES

A. ALL ROOF PENETRATIONS SHALL BE MADE WITH ROOF JACKS, SEAL ALL PENETRATIONS WITH MASTIC.

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SHEET TITLE POWER ROOF PLAN - CLSSROOM BLDG.

SHEET E-204

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BASIS OF DESIGN

TELECOMMUNICATIONS ROOM ('TR' / 'IDF' / 'MDF') ROOM EQUIPMENT

MANUF.	MANUFACTURER'S PART NO. / SERIES NO.	DESCRIPTION
CHATSWORTH	13856-703	SEISMIC RATED UNIVERSAL, 44RU, 2-POST COMMUNICATIONS RACK.
CHATSWORTH	10250-X (SERIES)	UNIVERSAL CABLE RUNWAY, BLACK
CHATSWORTH	36821-6 (SERIES)	4" DEEP WIRE BASKET CABLE-TRAY
LEVITON	5R2UM-F06	2RU FIBER OPTIC SPLICE ENCLOSURE AND PATCH PANEL
LEVITON	49255-H24	24 PORT, 1RU MODULAR PATCH PANEL (CAT6A) - COMPATIBLE WITH LEVITON QUICKPORT CONNECTORS
LEVITON	49255-H48	48 PORT, 2RU MODULAR PATCH PANEL (CAT6A) - COMPATIBLE WITH LEVITON QUICKPORT CONNECTORS
ICC	ICCMSCMA15	HORIZONTAL CABLE MANAGER, 1RU, HINGED
ICC	ICCMSCMA25	HORIZONTAL CABLE MANAGER, 2RU, HINGED
APC	BR1500G	1500VA, 120V (NEMA L5-20P) UPS, AT IDF ONLY
APC	SMT3000RM2U + AP9630	3000VA, 120V (NEMA L5-30P) SMART UPS, WITH ADD-ON NETWORK MANAGEMENT CARD, AT MDF ONLY

INTERCOM/PA/BELLS/CLOCKS

(CONTRACTOR SHALL PROVIDE MOUNTING ACCORDING TO CEILING TYPE SHOWN ON ARCHITECTURAL REFLECTED CEILING PLAN)

MANUF.	MANUFACTURER'S PART NO. / SERIES NO.	DESCRIPTION
ADVANCED NETWORK DEVICES	IPSWS-SM-O	OUTDOOR POE-ENABLED SPEAKER
ADVANCED NETWORK DEVICES	IPSWS-FM (FLUSH) IPSWS-SM (SURFACE) IPSCM (CEILING TILE)	INDOOR POE-ENABLED SPEAKER ONLY
ADVANCED NETWORK DEVICES	IPSWDHD-MW	INDOOR POE-ENABLED SPEAKER, LED CLOCK DISPLAY.

CABLING

MANUF.	MANUFACTURER'S PART NO. / SERIES NO.	DESCRIPTION
BERK-TEK	"ADVENTUM"	INDOOR/OUTDOOR, GIGALITE-'AB', LOOSE TUBE 'OS2', 24-STRAND, SINGLE MODE FIBER OPTIC CABLE
BERK-TEK	LANMARK-1000*	CAT6 CABLE (INDOOR, RISER RATED, REFER TO SPECIFICATIONS FOR COLOR SCHEME)
BERK-TEK	RDT Cat 6A U/UTP	CAT6A CABLE (INDOOR, RISER RATED, REFER TO SPECIFICATIONS FOR COLOR SCHEME)

*NOTE: PROVIDE OSP OUTDOOR CABLE WHERE ROUTED OUTDOORS AND BETWEEN BUILDINGS.

TASK RESPONSIBILITY MATRIX

TASK	RESPONSIBLE PARTY
TELECOM, AV, ACCESS CONTROL, SECURITY - CONDUIT, BACKBOXES, FLOORBOXES, POKE-THRUS, SLEEVES	CONTRACTOR
TELECOM, AV, ACCESS CONTROL, SECURITY - CONDUIT ID, LABELING, AND PULLSTRINGS	CONTRACTOR
TELECOM, AV, ACCESS CONTROL, SECURITY - EQUIPMENT STRUCTURAL SUPPORTS AND BACKING	CONTRACTOR
TELECOM, AV, ACCESS CONTROL, SECURITY - EQUIPMENT CEILING PREP (ACCESS POINTS, CAMERAS, INTRUSION)	CONTRACTOR
POWER TO TELECOM, AV RACKS, ACCESS CONTROL HEAD-END EQUIPMENT	CONTRACTOR
AV EQUIPMENT RACKS AND EQUIPMENT MOUNTS	OFCI
AV CABLING AND TERMINATIONS	OFOI
AV FACEPLATES DIVIDERS SPEAKER CUTOUTS	OFOI
AV EQUIPMENT (DISPLAYS, MOUNTS, AMPS, CONTROLLERS, ETC.)	OFOI
AV FLOOR-BOXES	CONTRACTOR
AV CABLING AND TERMINATIONS AT DISPLAY BACK-BOXES, FLOOR-BOXES	CONTRACTOR
AV PRESENTATION BARS / RALLY BAR / CAMERAS AND CONTROL TOUCH PANELS	OFCI
AV MICROPHONE AND SPEAKERS	OFCI
DIGITAL DISPLAY SIGNAGE TELEVISIONS AND TELEVISION MOUNTS (APPLIES TO BOTH 'DS' AND 'DISP' SYMBOLS AS NOTED IN SYMBOL MATRIX)	OFCI
TELECOM EQUIPMENT RACKS, PATCH PANELS, CABLE MANAGEMENT, LADDER RACKING/TRAY	CONTRACTOR
TELECOM CABLING AND TERMINATION	CONTRACTOR
TELECOM FACEPLATES AND DIVIDERS	CONTRACTOR
NETWORK EQUIPMENT (SWITCHES, RACK-MOUNT UPS IN IDF'S, SERVERS, STORAGE)	OFOI
MISC. IT EQUIPMENT (TELEPHONES, COMPUTERS, MONITORS)	OFOI
WIRELESS ACCESS POINTS	OFCI
SECURITY CAMERA DATA CABLING	CONTRACTOR
ACCESS CONTROL CABLING, CARD READERS, DOOR CONTACTS, ACCESS CONTROL PANEL AND ASSOCIATED EXPANSION CARDS AND POWER SUPPLIES, INTERCOM.	CONTRACTOR
PANIC-BUTTONS, LOCK-DOWN BUTTONS AND THEIR ASSOCIATED NOTIFICATION LIGHTS AND INTERCONNECTION MEANS-METHODS.	CONTRACTOR
VIDEO SURVEILLANCE CAMERAS, MOUNTS, CAMERA MEDIA CONVERTERS AND ASSOCIATED CAMERA HARDWARE	CONTRACTOR

CONTRACTOR = CONTRACTOR FURNISHED AND INSTALLED
OFCI = OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI = OWNER FURNISHED, OWNER INSTALLED

NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING OWNER OF ALL HARDWARE NOTED WITHIN DRAWINGS OR SPECIFICATIONS AS FURNISHED OR PROVIDED BY OWNER AND CONTRACTOR INSTALLED. SUCH NOTICE SHALL BE PROVIDED TO OWNER AT CONTRACT NOTICE TO PROCEED, AND A CORRESPONDING SCHEDULE FOR WHEN SPECIFIC EQUIPMENT IS NECESSARY FOR INSTALLATION BY CONTRACTOR. ALL HARDWARE SHALL BE INSTALLED BY THE EC UNLESS NOTED OTHERWISE.

TELECOMMUNICATIONS DEVICE SCHEDULE

SYMBOL	BACKBOX	MUD RING	CONDUIT STUB	CABLE TYPE	CABLE QUANTITY	CABLE COLOR	FACEPLATE	NOTES
n	EXTRA DEEP 5-SQUARE	SINGLE GANG	1-1/4"	CAT6/6A	4	(1) CAT6A CABLE (RISER), BLUE IN COLOR (1) CAT6 CABLE (RISER), YELLOW IN COLOR (1) CAT6 CABLE (RISER) GREEN IN COLOR (1) CAT6 CABLE (RISER) WHITE IN COLOR	4-PORT, WHITE	STANDARD WORK AREA OUTLET. "n" = NUMBER OF CAT6/6A DATA DROPS. PROVIDE BLANK COVERS FOR UNUSED PORTS. SEE DETAIL 3/E-401 AND 4/E-401 FOR FACEPLATE NAMING CONVENTIONS.
TV n	EXTRA DEEP 5-SQUARE	SINGLE GANG	1-1/4"	CAT6	2	CAT6 CABLE (RISER) WHITE IN COLOR	2-PORT, WHITE	DATA OUTLET AT TV HEIGHT AT LOCATION SHOWN IN PLAN. "n" = NUMBER OF CAT6/6A DATA DROPS. COORDINATE MOUNTING HEIGHT AND LOCATION WITH OWNER PRIOR TO ROUGH IN. SEE DETAIL 1/E-403 FOR RECESSED MEDIA LAYOUT.
n	EXTRA DEEP 5-SQUARE	SINGLE GANG	1-1/4"	CAT6/6A	4	(1) CAT6A CABLE (RISER), BLUE IN COLOR (1) CAT6 CABLE (RISER), YELLOW IN COLOR (1) CAT6 CABLE (RISER) GREEN IN COLOR (1) CAT6 CABLE (RISER) WHITE IN COLOR	4-PORT, WHITE	ABOVE COUNTER DATA OUTLET AT LOCATION SHOWN IN PLAN. "n" = NUMBER OF CAT6/6A DATA DROPS
AP	-	-	1-1/4"	CAT6A	2	CAT6A CABLE (RISER) ORANGE IN COLOR	-	INTERIOR WIRELESS ACCESS POINT, DISTRICT PROVIDED (INCLUDING MOUNT) AND CONTRACTOR INSTALLED. MOUNTING PER DETAIL 1/E-301 OR 2/E-301.
WAP	-	-	1-1/4"	CAT6A	2	CAT6A CABLE (RISER) ORANGE IN COLOR	-	WALL MOUNTED WIRELESS ACCESS POINT LOCATION, DISTRICT PROVIDED (INCLUDING MOUNT) AND CONTRACTOR INSTALLED. EC SHALL PROVIDE (2) CAT6A CABLE EACH. MOUNTING DETAIL PER 13/E-011.
APWP	-	-	1-1/4"	CAT6A	1	CAT6A CABLE (RISER) ORANGE IN COLOR	-	EXTERIOR (WP) WIRELESS ACCESS POINT LOCATION, DISTRICT PROVIDED (INCLUDING MOUNT) AND CONTRACTOR INSTALLED. EC SHALL PROVIDE (1) CAT6A CABLE EACH. REFER TO MANUFACTURER'S MOUNTING REQUIREMENTS.
IP	-	-	1-1/4"	CAT6	1	CAT6 CABLE (RISER) WHITE IN COLOR	-	VOIP ENABLED CEILING MOUNTED SPEAKER (PART NUMBERS PER BASIS OF DESIGN). CONTRACTOR SHALL PROVIDE (1) BLUE CAT6 CABLE PER DEVICE FROM IDF WITH MINIMUM 10'-0" SERVICE LOOP TERMINATED IN BISCUIT INSIDE SPEAKER ENCLOSURE.
IP	-	-	1-1/4"	CAT6	1	CAT6 CABLE (RISER) WHITE IN COLOR	-	VOIP ENABLED WALL MOUNTED SPEAKER (PART NUMBERS PER BASIS OF DESIGN). CONTRACTOR SHALL PROVIDE (1) BLUE CAT6 CABLE PER DEVICE FROM IDF WITH MINIMUM 10'-0" SERVICE LOOP TERMINATED IN BISCUIT INSIDE SPEAKER ENCLOSURE. SEE DETAIL 6/E-403
IPWP	-	-	1-1/4"	CAT6	1	CAT6 CABLE (RISER) WHITE IN COLOR	-	WEATHER PROOF (WP) OUTDOOR SPEAKER (PART NUMBERS PER BASIS OF DESIGN). EC SHALL PROVIDE (N) (1) CAT6 CABLE PER SPEAKER WITH MINIMUM 10'-0" SERVICE LOOP TERMINATED IN BISCUIT INSIDE SPEAKER ENCLOSURE. EC SHALL COORDINATE WITH DISTRICT REPRESENTATIVE FOR FINISHED MOUNTING HEIGHT.
CLOCK	-	-	1-1/4"	CAT6	1	CAT6 CABLE (RISER) WHITE IN COLOR	-	COMBINATION CLOCKS/SPEAKERS/MICROPHONE DEVICE (PART NUMBERS PER BASIS OF DESIGN). PoE CAPABLE INDOOR WALL-MOUNT IP DEVICE. PROVIDE (N) (1) CAT6 CABLE PER DEVICE TERMINATED IN 1-PORT BISCUIT INSIDE SPEAKER ENCLOSURE. SEE DETAIL 6/E-403
VS	EXTRA DEEP 5-SQUARE	SINGLE GANG	1-1/4"	CAT6	HARD LID = (1) T-BAR = (2)	CAT6 CABLE (RISER) WHITE IN COLOR	-	PROVIDE SINGLE GANG BOX, DATA PORT AND COVER WITH (1) CAT6 CABLE TO IDF FLUSH MOUNTED IN HARD LID CEILING FOR FUTURE VAPE SENSOR.
CAM	EXTRA DEEP 5-SQUARE	-	1-1/4"	CAT6	1	CAT6 CABLE (RISER) BLUE IN COLOR	-	FUTURE EXTERIOR CAMERA LOCATION, PROVIDE (1) BLUE CAT6 CABLE PER LOCATION, TERMINATED IN 1-PORT BISCUIT IN FLUSH MOUNTED WEATHERPROOF 5S BOX. EC SHALL PAINT WEATHERPROOF COVER TO MATCH EXISTING BUILDING. COORDINATE BOX HEIGHT WITH DISTRICT.
	2-GANG FLOOR BOX	-	1-1/4"	CAT6/6A	4	(1) CAT6A CABLE (RISER), BLUE IN COLOR (1) CAT6 CABLE (RISER), YELLOW IN COLOR (1) CAT6 CABLE (RISER) GREEN IN COLOR (1) CAT6 CABLE (RISER) WHITE IN COLOR	-	2-GANG COMBINATION POWER/DATA FLOOR BOX (WIREMOLD RFB2-G SERIES). PROVIDE ALL ACCESSORIES FOR A COMPLETE WORKING SYTEM. PROVIDE DUPLEX AND ONE FOR DATA.
	4-GANG FLOOR BOX	-	1-1/4"	CAT6/6A	4	(1) CAT6A CABLE (RISER), BLUE IN COLOR (1) CAT6 CABLE (RISER), YELLOW IN COLOR (1) CAT6 CABLE (RISER) GREEN IN COLOR (1) CAT6 CABLE (RISER) WHITE IN COLOR	-	4-GANG COMBINATION POWER/DATA FLOOR BOX (WIREMOLD RFB4-G SERIES). PROVIDE ALL ACCESSORIES FOR A COMPLETE WORKING SYSTEM). PROVIDE DOUBLE DUPLEX, ONE SPARE FOR FUTURE USE, ONE FOR DATA PORT).

1 TELECOMMUNICATION DEVICE CABLE AND ROUGH-IN SCHEDULE
SCALE: NTS

GENERAL COMMUNICATION PLAN NOTES

A. REFER TO PROJECT TELECOMMUNICATIONS PLANS AND SPECIFICATIONS FOR FURTHER INFORMATION.

B. SIGNAL AND COMMUNICATIONS SYSTEMS RACEWAYS AND BOXES: PROVIDE AND INSTALL 5" SQUARE ("RANDL, INC") RECESSED JUNCTION BOX WITH 1-GANG RING AND (1) 1-1/4" CONDUIT STUB TO ACCESSIBLE CEILING SPACE ABOVE OR UNDER FLOOR SPACE BELOW AS APPLICABLE AT EACH WALL TELECOMMUNICATIONS (PHONE, PHONE/DATA, DATA) OUTLET AND TELEVISION OUTLET LOCATION SHOWN ON THE PLANS UNLESS OTHERWISE NOTED. PROVIDE PATHWAYS BETWEEN COMMUNICATIONS EQUIPMENT ROOM LOCATIONS AND ACCESSIBLE CEILINGS FOR ROUTING OF PHONE/DATA CABLES.

WHERE NO ACCESSIBLE CEILING EXIST; RUN CONDUIT FROM OUTLETS (FLOOR OR WALL) TO COMMUNICATIONS EQUIPMENT LOCATION.

PROVIDE 1-1/4" CONDUIT MINIMUM FOR FLOOR BOX TELECOM AND A/V, AS SHOWN ON TELECOM PLANS.

BEFORE CONSTRUCTION, COORDINATE AND VERIFY TELECOMMUNICATIONS OUTLET LOCATIONS WITH OWNER OR ARCHITECT.

C. CONDUIT STUBS FROM BACKBOXES SHALL BE ROUTED TO ABOVE NEAREST ACCESSIBLE CEILING SPACE WITH ACCESS TO PRIMARY PATHWAY BACK TO IDF OR MDF, UNLESS NOTED OTHERWISE

D. CONFIRM ALL DEVICE HEIGHTS WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH IN AND COORDINATE FINAL LOCATIONS WITH NEARBY DEVICE DICSIPLINES.

E. COORDINATE ALL ROUGH-IN FOR OFOI DEVICES WITH OWNER IT REPRESENTATIVE PRIOR TO ROUGH-IN.

F. PROVIDE EQUIPMENT RACKS, PATCH PANELS, CABLING, TERMINAL BLOCKS & COMPLETE OUTLET ASSEMBLIES.

G. DEVICE LOCATIONS SHOWN ARE SCHEMATIC AND APPROXIMATE. EXACT LOCATIONS SHALL BE FIELD VERIFIED DURING ROUGH-IN WITH ARCHITECTURAL ELEVATIONS, CASEWORK SHOP DRAWINGS, FURNITURE, ETC. AND SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT WITH OTHER EQUIPMENT.

H. ELECTRICAL AND COMMUNICATIONS OUTLETS SHOWN IN FIRE RATED, OR SOUND RATED (STC) ASSEMBLIES SHALL BE PROVIDED WITH PUTTY PADS LISTED FOR THE APPLICATION.

I. ELECTRICAL AND COMMUNICATIONS OUTLETS SHOWN IN THE SAME LOCATION, SHALL BE MOUNTED ON OPPOSITE SIDES OF THE SAME STUD. COORDINATE BETWEEN ELECTRICAL AND COMMUNICATIONS PLANS. ALTERNATIVELY, A DEVICE BRACKET MAY BE USED BETWEEN STUDS WITH 4-INCH SEPARATION BETWEEN POWER AND LOW VOLTAGE BOXES.

J. AVOID UNDERGROUND TELECOM CONDUIT RUNS UNLESS NECESSARY. WHERE UNDERGROUND CONDUIT IS USED, TELECOM CABLES SHALL BE WET LISTED.

K. CABLE LADDER DROP-OUTS SHALL BE INSTALLED WHEREVER NECESSARY TO FACILITATE CABLE TRANSITIONS AND MIN BEND RADIUSES. DROP-OUTS SHALL BE EQUIVALENT TO CHATSWORTH AND SOLID ONE PIECE CONSTRUCTION.

L. NO LOW-VOLTAGE SYSTEM MAY USE THE TELECOMMUNICATIONS PATHWAY AS DESCRIBED ON THE TECHNOLOGY PLANS AND SPECIFICATIONS. THE TELECOMMUNICATION SYSTEM CABLING SHALL BE THE ONLY SYSTEM TO UTILIZE THE INFRASTRUCTURE AND CABLE TRAY / CABLE RUNWAY SYSTEM:

thoma ENGINEERING
THOMA ELECTRIC, INC.
3562 EMPLEO ST.
SAN LUIS OBISPO, CA 93401
PHONE: (805) 543-3850
FAX: (805) 543-3829

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125456 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026

SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT
SAN LUIS OBISPO HIGH SCHOOL
1499 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401
NEW CLASSROOM BUILDING
& RELOCATION OF MODULAR RESTROOM

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELLAGA STREET SANTA BARBARA CA 93101
TELEPHONE (805) 963-1726 FAX (805) 963-2951
JOE S. WILCOX, AIA
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PROJECT MANAGER

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LICENSED ARCHITECT JOE S. WILCOX No. C-9808 Ren. 12/25 STATE OF CALIFORNIA

ENGINEER'S STAMP & SIGNATURE
REGISTERED PROFESSIONAL ENGINEER JEFFREY M. THOMA NO. 20823 ELECTRICAL STATE OF CALIFORNIA
EXP. 09/30/26 REF. 24-8089

CONSULTANT INFORMATION

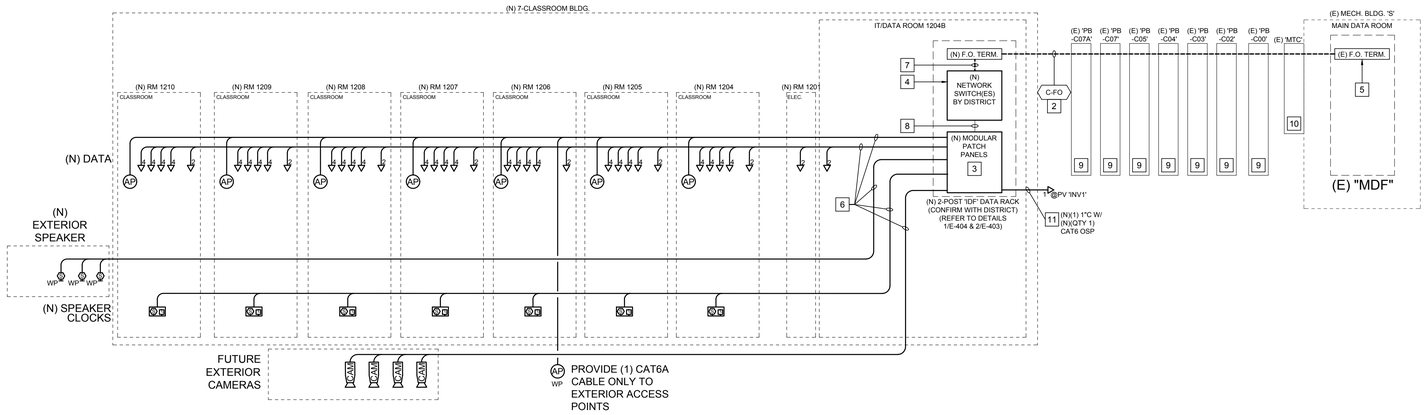
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DRAWN JC/RP/TH
CHECKED JT
DATE 06/01/26
JOB. NO. 24010

SHEET TITLE COMM NOTES, BOD, DEVICE MATRIX

SHEET E-300

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PARTIAL CAMPUS COMMUNICATIONS RISER DIAGRAM

REFERENCE NOTES

1. NOT USED.
2. PROVIDE (N) 12-STRAND SINGLE-MODE FIBER OPTIC CABLE, INDOOR/OUTDOOR RISER RATED. REFER TO SPECIFICATIONS. TERMINATE AT EACH END USING FUSION SPLICE ONLY. NO MECHANICAL SPLICING SHALL BE PERMITTED. PROVIDE MINIMUM 15-FEET SERVICE LOOP AT EACH END OF CABLE IN IT/DATA ROOMS.
3. INSTALL (N) MODULAR PATCH PANELS IN (N) DATA RACK. CONTRACTOR SHALL MAINTAIN MINIMUM 10% SPARE CAPACITY ON PATCH PANEL.
4. (N) NETWORK SWITCHES FURNISHED AND INSTALLED BY OWNER.
5. INSTALL ADDITIONAL OPTICAL SPLICE ENCLOSURE AS NECESSARY AT MDF LOCATION.
6. (N) CATEGORY CABLING FOR HORIZONTAL DATA DISTRIBUTION TO EACH DATA/POE/VOIP DEVICE PER LEGEND ON THIS SHEET.
7. INSTALL (N) F.O. JUMPERS - TO MATCH CABLE PLANT (2M MAX).
8. INSTALL (N) CAT 6/6A JUMPERS - TO MACH CABLE PLANT (2M MAX).
9. IN-GRADE COMMUNICATIONS PULLBOX. REFER TO SITE PLAN FOR LOCATION.
10. (E) BUILDING MOUNTED NEMA 3R TERMINAL CABINET TO REMAIN. REFER TO SITE PLAN FOR LOCATION.
11. (N) OSP RATED CAT6A CABLES, BERK-TEK 'LANMARK-10G OSP'. CABLE QUANTITIES AS SHOWN.

GENERAL NOTES

A. CAT6 AND CAT6A CABLES, TOTAL LENGTH FROM IDF TO ENDPOINT SHALL NOT BE MORE THAN 295'-0"; CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER ANY LENGTHS IN EXCESS OF 295'-0".

B. CAT6 AND CAT6A CABLES SHOWN AS ROUTED UNDERGROUND BETWEEN BUILDINGS SHALL BE OUTDOOR PLANT RATED (OSP) AS SHOWN.

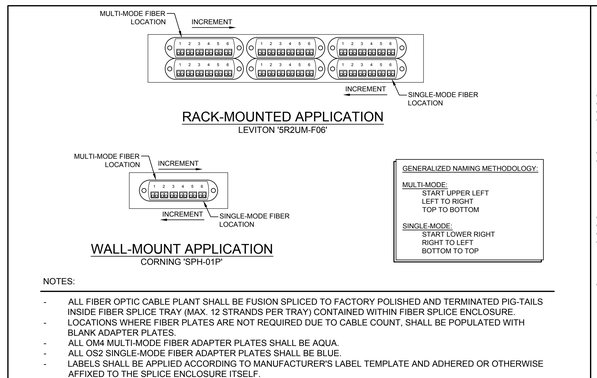
C. EC SHALL PROVIDE 10' SERVICE LOOP AT EACH (E) AND (N) PULL-BOX FOR CABLE SHOWN AS (N).

D. DISTRICT TO PROVIDE VOIP (VOICE OVER INTERNET PROTOCOL) PHONE HAND SETS AT EACH NEW CLASSROOM.

E. CABLING TYPES SHALL BE SUITABLE AND RATED FOR THE APPLICATION INSTALLED (PLENUM, UNDERGROUND, ETC.).

F. ALL FIBER OPTIC CABLES SHALL BE FUSION SPLICED TO PRE-TERMINATED/POLISHED PIG-TAILS IN APPROVED FIBER SPLICE ENCLOSURES AND SPLICE TRAYS.

G. REFER TO ADDITIONAL REQUIREMENTS SHOWN IN GENERAL COMMUNICATION PLANS NOTES SHEET E-300.

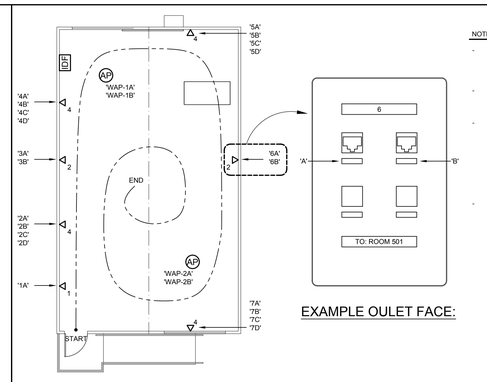


NOTES:

- ALL FIBER OPTIC CABLE PLANT SHALL BE FUSION SPLICED TO FACTORY POLISHED AND TERMINATED PIG-TAILS INSIDE FIBER SPLICE TRAY (MAX. 12 STRANDS PER TRAY) CONTAINED WITHIN FIBER SPLICE ENCLOSURE.
- LOCATIONS WHERE FIBER PLATES ARE NOT REQUIRED DUE TO CABLE COUNT, SHALL BE POPULATED WITH BLANK ADAPTER PLATES.
- ALL OM4 MULTI-MODE FIBER ADAPTER PLATES SHALL BE AQUA.
- ALL OS2 SINGLE-MODE FIBER ADAPTER PLATES SHALL BE BLUE.
- LABELS SHALL BE APPLIED ACCORDING TO MANUFACTURER'S LABEL TEMPLATE AND ADHERED OR OTHERWISE AFFIXED TO THE SPLICE ENCLOSURE ITSELF.

5 FIBER PATCH PANEL NAMING CONVENTIONS

SCALE: NTS



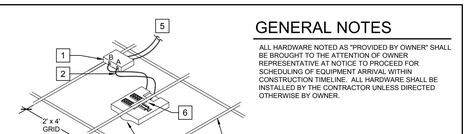
EXAMPLE OULET FACE:

NOTES:

- ALL OUTLET INDICES SHALL BE ASSIGNED BY POSITION IN ROOM. LABELS SHALL START AT OCCUPANT ENTRANCE TO ROOM.
- WHERE MORE THAN ONE ENTRANCE IS PRESENT, LABEL SHALL BEGIN AT ANY ENTRANCE.
- OUTLET NUMBERS SHALL BE ASSIGNED ACCORDING TO "SPIRAL INWARD" METHOD WHEREBY USER STARTS AT ENTRANCE AND INCREMENTS OUTLET ASSIGNMENT IN CLOCKWISE PATTERN. SEE ABOVE DIAGRAM FOR EXAMPLE ILLUSTRATION.
- WIRELESS ACCESS POINTS SHALL HAVE ADDITIONAL PREFIX 'WAP', AND INDEX SHALL BE SEPARATELY MAINTAINED.

3 DATA OUTLET NAMING CONVENTIONS WITHIN ROOM

SCALE: NTS



GENERAL NOTES

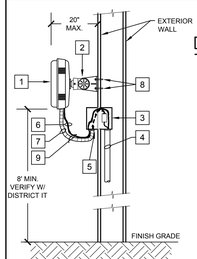
ALL HARDWARE NOTED AS "PROVIDED BY OWNER" SHALL BE BROUGHT TO THE ATTENTION OF OWNER REPRESENTATIVE AT NOTICE TO PROCEED FOR SCHEDULING OF EQUIPMENT ARRIVAL WITHIN CONSTRUCTION TIMELINE. ALL HARDWARE SHALL BE INSTALLED BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE BY OWNER.

REFERENCE NOTES

1. 2-PORT BISCUIT MOUNTED IN ACCESSIBLE CEILING SPACE. EC SHALL PROVIDE LABELS FOR EACH CABLE AT BISCUIT, AND SHALL TERMINATE (FEMALE) AND TEST ALL CABLES, AND PROVIDE TEST RESULTS TO OWNER.
2. (N)(2) ORANGE, 2-METER CAT6A PATCH CABLE BETWEEN NEW WIRELESS ACCESS POINT AND CAT6A TERMINATION BISCUIT. PATCH CABLE SHALL BE INSERTED INTO RJ-45 PORT LABELED 'PoE' ON WIRELESS ACCESS POINT, AND 'A' & 'B' CABLE ON BISCUIT.
3. T-BAR CEILING. PENETRATIONS THROUGH CEILING TILES SHALL BE SEALED SO AS TO MAINTAIN FIRE RATING OF CEILING TILE IF APPLICABLE.
4. (N) WIRELESS ACCESS POINT (NOT TO EXCEED 18"X18"X6", WEIGHING NO MORE THAN 8 LBS), TO BE PROVIDED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR. EC SHALL NOTIFY OWNER OF ACCESS POINT QUANTITIES AND LOCATIONS A MINIMUM OF 6-WEEKS PRIOR TO INSTALLATION DATE.
5. (N)(2) CAT6A CABLES FROM IDF TO BISCUIT. ALL CABLE AND TERMINATION HARDWARE (INCLUDING MODULAR JACKS, PATCH CABLES, ETC.) SHALL FOLLOW COLOR CODING OUTLINED IN CABLE SCHEDULE ON THIS SHEET.
6. WAP MANUFACTURER PROVIDED T-BAR MOUNTING CLIP. ADHERE STRICTLY TO MANUFACTURER PROVIDED INSTALLATION INSTRUCTIONS.

1 INDOOR WIRELESS ACCESS POINT T-BAR MOUNT

SCALE: NTS



REFERENCE NOTES

1. OUTDOOR WIRELESS ACCESS POINT PROVIDED BY DISTRICT IT STAFF, INSTALLED BY EC. CURRENTLY ASSUMED TO BE ARUBA NETWORKS MODEL #AP-277, MAX WEIGHT 4.4-LBS(2.0-KG). POSITION ACCESS POINT SUCH THAT PORTS ARE FACING FINISHED GRADE TO PREVENT WATER INGRESS.
2. ARUBA NETWORKS MODEL #AP-270-MNT-H1, WALL-MOUNTED ADJUSTABLE BRACKET AND ACCESS POINT HOLDER, OR APPROVED EQUAL.
3. (N) FLUSH-MOUNTED 6"x6" JUNCTION BOX. EC SHALL PROVIDE ADDITIONAL GASKET AND NEMA 3R J-BOX EXTENSION WITH SCREW COVER. TERMINATE (2) CAT6A CABLES IN 2-PORT BISCUIT INSIDE JUNCTION BOX.
4. (N) CONDUIT FOR GROUND CONDUCTOR AND CATEGORY CABLING, HOMERUN TO APPROPRIATE IDF AS MARKED ON FLOORPLAN AND RISER DIAGRAM. MINIMUM 1-1/4" TRADE SIZE.
5. PROVIDE SEAL-TIGHT CONDUIT FITTING FOR (N) 1/2" SEAL-TITE CONDUIT. PROVIDE GLAND NUT FOR GROUND CABLE ENTRANCE INTO JUNCTION BOX (GROUND CABLE NOT ROUTED THROUGH SEAL-TIGHT).
6. (1) #8 THWN GND CONDUCTOR (GREEN JACKET) TIED FROM ACCESS POINT UNIT AND ROUTED THROUGH JUNCTION BOX TO EQUIPMENT GROUND BUS IN NEAREST ELECTRICAL PANEL.
7. (N) 1/2" SEAL-TIGHT CONDUIT FROM JUNCTION BOX ON WALL TO (N) WIRELESS ACCESS POINT. EC SHALL PROVIDE M20-TO-1/2" NPT ADAPTER (SEPARATE PART NUMBER, REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS), AND ROUTE (N) UV RESISTANT CAT6A CABLE BETWEEN BISCUIT IN JUNCTION BOX AND ACCESS POINT. EC SHALL USE FACTORY PROVIDED SEALING DEVICE FOR CONNECTION TO ACCESS POINT HOUSING.
8. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR WALL-MOUNT. EC SHALL PROVIDE A MINIMUM OF (4) M10x30 ANCHOR-BOLTS/WASHERS/NUTS TO WALL STUD AS SHOWN IN MANUFACTURER'S MOUNTING INSTRUCTIONS. BOLTS/WASHERS/NUTS ARE NOT PROVIDED IN BRACKET KIT PACKAGE, EC SHALL PROVIDE.
9. USE MANUFACTURER PROVIDED CABLE TIE TO SECURE GROUND CABLE TO SEAL-TIGHT FLEXIBLE CONDUIT. EC SHALL PULL-BACK SLACK LOOP SO THERE SHALL BE NO SAG IN CABLE.



TERMINAL VIEW

(BOTTOM FACE OF DEVICE)

GENERAL NOTES

ALL HARDWARE NOTED AS PROVIDED BY OWNER SHALL BE BROUGHT TO THE ATTENTION OF OWNER REPRESENTATIVE AT NOTICE TO PROCEED FOR SCHEDULING OF EQUIPMENT ARRIVAL WITHIN CONSTRUCTION TIMELINE. ALL HARDWARE SHALL BE INSTALLED BY THE EC UNLESS DIRECTED OTHERWISE BY OWNER.

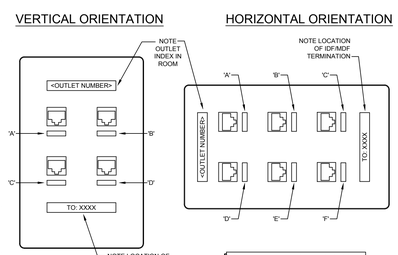
6 OUTDOOR WIRELESS ACCESS POINT MOUNT

SCALE: NTS

KEYSTONE COLOR SCHEDULE	
DEVICE	DESCRIPTION
WIRELESS ACCESS POINT	POS. A & B - CAT6A CABLES, ORANGE
WALL OUTLET	2-PORT WALL OUTLET — POS. A - CAT6A CABLE, BLUE; POS. B - CAT6 CABLE, YELLOW
(EXCLUDES OUTLET BEHIND TV)	4-PORT WALL OUTLET — POS. A - CAT6A CABLE, BLUE; POS. B - CAT6 CABLE, YELLOW; POS. C - CAT6 CABLE, GREEN; POS. D - CAT6 CABLE, WHITE
CLOCK OR CLK/SPKR	POS. A - CAT6 CABLE, WHITE
OUTLET BEHIND TV	POS. A & B - CAT6 CABLES, WHITE
SPEAKER ONLY	POS. A - CAT6 CABLE, WHITE
NOTE: REFER TO BASIS OF DESIGN (RISER DIAGRAM) FOR ADDITIONAL INFORMATION	

VERTICAL ORIENTATION

HORIZONTAL ORIENTATION



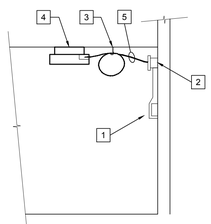
GENERALIZED NAMING METHODOLOGY:
'A' THRU 'F'
START UPPER LEFT
LEFT TO RIGHT
TOP TO BOTTOM

NOTES:

- ALL JACK LOCATIONS ASSIGNED BY POSITION IN ROOM, SEE "DATA OUTLET NAMING CONVENTIONS WITHIN ROOM" DETAIL FOR ASSIGNMENT METHODOLOGY.
- ALL JACKS TERMINATED AS T568B PINOUT.
- ALL JACKS COLOR TO MATCH INCOMING CABLE PLANT.
- PROVIDE IDENTICAL LABEL AT CORRESPONDING PATCH PANEL LOCATION AND ON CABLE PLANT ITSELF.

4 DATA OUTLET NAMING CONVENTIONS AT FACEPLATE

SCALE: NTS



REFERENCE NOTES

1. (N) RACEWAY PER COMM. FLOORPLANS.
2. (N)(1) SURFACE-MOUNT OUTLET WITH (N)(2) CAT6A AND (N)(2) CAT6A FEMALE RJ-45 TERMINATED.
3. J-HOOK OR APPROVED MOUNTING AND RETENTION OF SERVICE LOOP. SERVICE LOOP SHALL BE NO LONGER THAN 2 METERS.
4. WIRELESS ACCESS POINT MANUFACTURER FLUSH-MOUNT BRACKET. MOUNT TO CEILING USING MANUFACTURER PROVIDED GUIDELINES AND HARDWARE. WAP DEVICE SHALL BE OWNER FURNISHED, EC INSTALLED.
5. (N)(2) 2-METER ORANGE CAT6A PATCH CABLES BETWEEN NEW WIRELESS ACCESS POINT AND OUTLET. PATCH CABLE TO BE INSERTED INTO RJ-45 PORT LABELED 'PoE'

GENERAL NOTES

ALL HARDWARE NOTED AS "PROVIDED BY OWNER" SHALL BE BROUGHT TO THE ATTENTION OF OWNER REPRESENTATIVE AT NOTICE TO PROCEED FOR SCHEDULING OF EQUIPMENT ARRIVAL WITHIN CONSTRUCTION TIMELINE. ALL HARDWARE SHALL BE INSTALLED BY THE EC UNLESS DIRECTED OTHERWISE BY OWNER.

2 INDOOR WIRELESS ACCESS POINT HARD LID MOUNT

SCALE: NTS

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SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT

SAN LUIS OBISPO HIGH SCHOOL

1499 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93

NEW CLASSROOM BUILDING

& RELOCATION OF MODULAR RESTROOM

KBZ

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
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PRINCIPAL-IN-CHARGE

MAT GRADIAS, AIA
PROJECT MANAGER

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LICENSED ARCHITECT JOE S. WILCOX No. C-9808 Ren. 12/25 STATE OF CALIFORNIA

ENGINEER'S STAMP & SIGNATURE

REGISTERED PROFESSIONAL ENGINEER ELECTRICAL NO. 20823 STATE OF CALIFORNIA

EXP. 09/30/26 REF. 24-8089

CONSULTANT INFORMATION

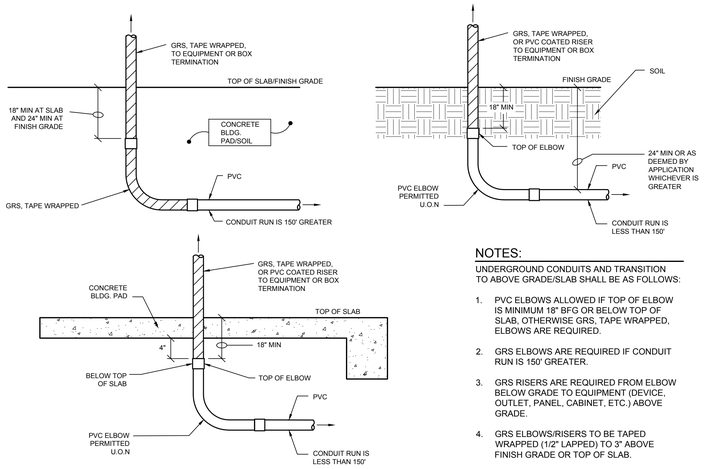
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SHEET TITLE COMMUNICATIONS RISER DIAGRAM

SHEET E-301

thoma ENGINEERING
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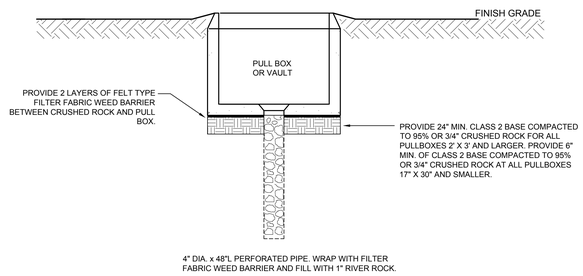
NOTES:

UNDERGROUND CONDUITS AND TRANSITION TO ABOVE GRADE/SLAB SHALL BE AS FOLLOWS:

1. PVC ELBOWS ALLOWED IF TOP OF ELBOW IS MINIMUM 18" BFG OR BELOW TOP OF SLAB, OTHERWISE GRS, TAPE WRAPPED, ELBOWS ARE REQUIRED.
2. GRS ELBOWS ARE REQUIRED IF CONDUIT RUN IS 150' GREATER.
3. GRS RISERS ARE REQUIRED FROM ELBOW BELOW GRADE TO EQUIPMENT (DEVICE, OUTLET, PANEL, CABINET, ETC.) ABOVE GRADE.
4. GRS ELBOWS/RISERS TO BE TAPED WRAPPED (1/2" LAPPED) TO 3" ABOVE FINISH GRADE OR TOP OF SLAB.

7 UNDERGROUND CONDUITS AND TRANSITION TO ABOVE GRADE/SLAB

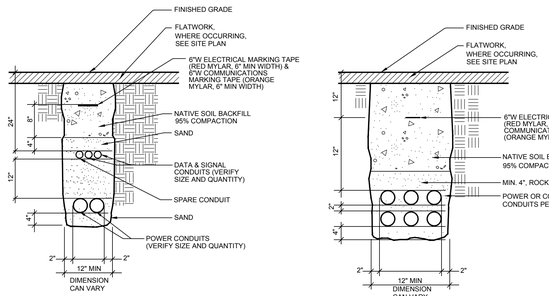
SCALE: NTS



PULLBOX INSTALLATION TO COMPLY WITH SLOUSD STANDARDS

4 PULL BOX DRAINAGE DETAIL

SCALE: NTS



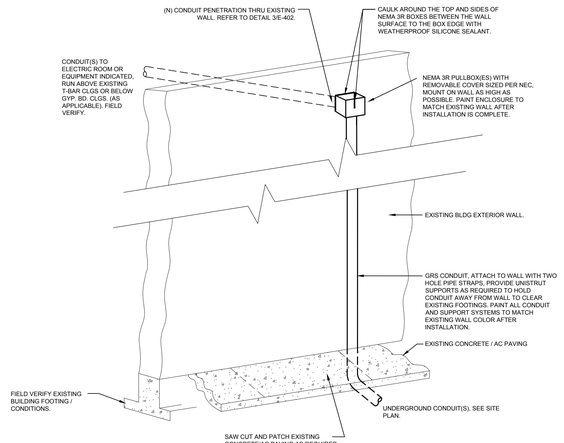
JOINT TRENCH

SINGLE TRENCH

NOTES:
- CONDUITS SHOWN ARE TYPICAL. VERIFY EXACT NUMBER OF CONDUITS FROM SITE PLAN AND SINGLE LINE DIAGRAM.
- REFER TO DETAIL 6/E-401 FOR CONDUIT CLEARANCE REQUIREMENTS TO BUILDING FOOTINGS.
- WHEN POWER IS NOT BELOW COMMUNICATIONS, 12" MIN. HORIZONTAL SEPARATION SHALL BE MAINTAINED FROM ALL OTHER NEW UTILITY CONDUITS.

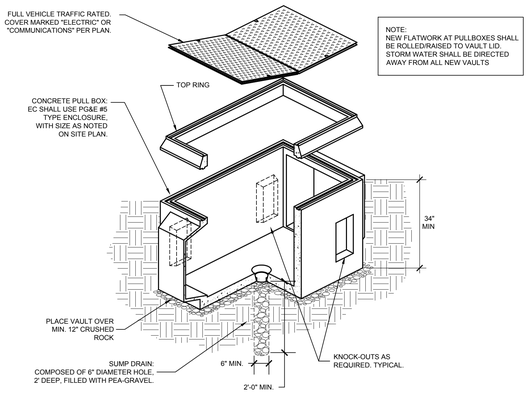
1 JOINT & SINGLE UTILITY TRENCH

SCALE: NTS



8 TYPICAL CONDUIT ENTRY DETAIL AT EXISTING BUILDING

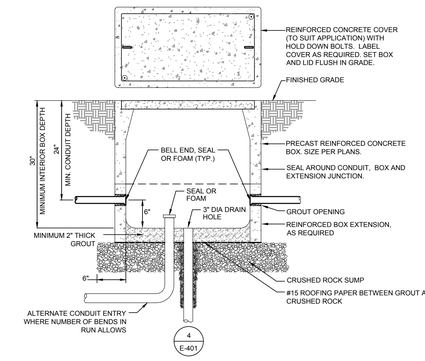
SCALE: NTS



NOTE:
NEW FLATWORK AT PULLBOXES SHALL BE ROLLED/RAISED TO VAULT LID. STORM WATER SHALL BE DIRECTED AWAY FROM ALL NEW VAULTS

5 ELECTRICAL/COMMUNICATIONS VAULT

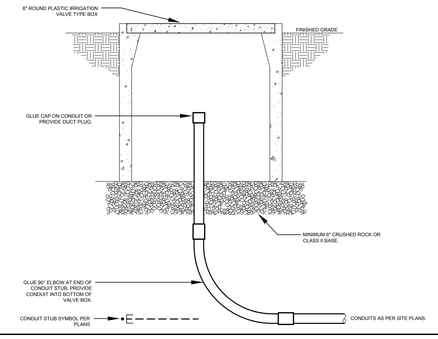
SCALE: NTS



PULLBOX INSTALLATION TO COMPLY WITH SLCUSD STANDARDS

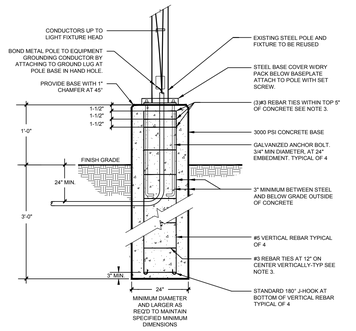
2 TYPICAL PULL BOX, 17" X 30" OR SMALLER

SCALE: NTS



3 TYPICAL CONDUIT STUB DETAIL

SCALE: NTS

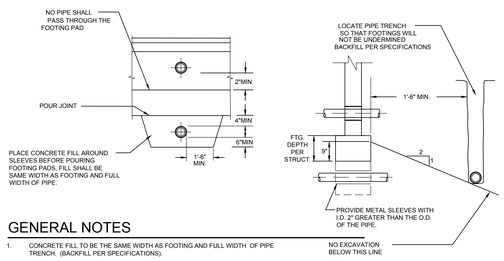


GENERAL NOTES

1. GALV. ANCHOR BOLTS & TEMPLATE FURNISHED BY EC; BOLTS INSTALLED AND CONCRETE BASE FURNISHED AND INSTALLED WITH REBAR BY EC.
2. CONDUIT SHALL BE 3/4" MINIMUM SIZE AND MINIMUM 24" BELOW FINISH GRADE.
3. TIES SHALL HAVE AT EACH END A 135 DEGREE HOOK BEND WITH A SIX-BAR DIAMETER BUT NOT LESS THAN 3 INCH EXTENSION THAT ENGAGES THE LONGITUDINAL REINFORCEMENT AND PROJECTS INTO THE INTERIOR OF THE STIRRUP OR HOOP.
4. NOT FOR DSA REVIEW. LIGHTING POLES LESS THAN 35'-0" IN HEIGHT ABOVE FINISHED GRADE. CAC 4-314, DSA IR A-22 SECTION 1.2.1 APPENDIX TABLE ITEM 1.

9 POLE MOUNTED SITE LIGHTING FIXTURE MOUNTING DETAIL

SCALE: NTS



GENERAL NOTES

1. CONCRETE FILL TO BE THE SAME WIDTH AS FOOTING AND FULL WIDTH OF PIPE TRENCH. (BACKFILL PER SPECIFICATIONS).
2. CENTER PIPE IN PVC OR GALVANIZED METAL SLEEVE THAT HAS A MIN. I.D. 2" GREATER THAN THE PIPES O.D.
3. WATERPROOF OPENING AROUND PIPE PER GENERAL SPECIFICATIONS.
4. COORDINATE INSTALLATION WITH STRUCTURAL ENGINEER.

6 TYPICAL CONDUIT NEAR/THRU FOOTING DETAIL

SCALE: NTS

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EXP 09/30/26 REF. 24-8089

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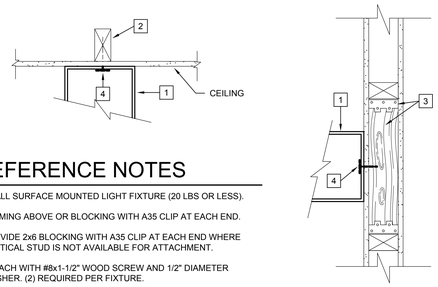
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DATE 05/01/26
JOB. NO. 24010

SHEET TITLE: ELECTRICAL DETAILS

SHEET: E-401

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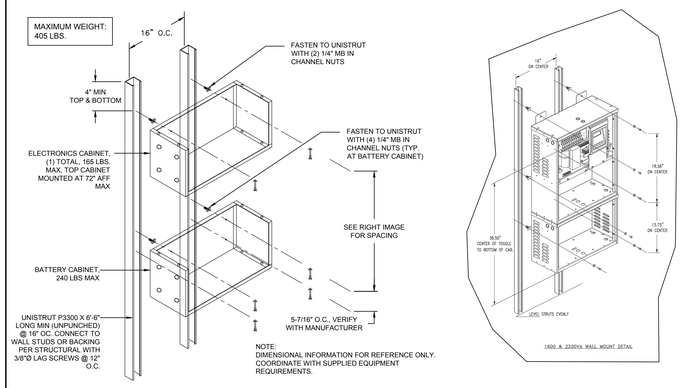


☐ REFERENCE NOTES

1. SMALL SURFACE MOUNTED LIGHT FIXTURE (20 LBS OR LESS).
2. FRAMING ABOVE OR BLOCKING WITH A35 CLIP AT EACH END.
3. PROVIDE 2x6 BLOCKING WITH A35 CLIP AT EACH END WHERE VERTICAL STUD IS NOT AVAILABLE FOR ATTACHMENT.
4. ATTACH WITH #8x1-1/2" WOOD SCREW AND 1/2" DIAMETER WASHER. (2) REQUIRED PER FIXTURE.

7 TYP. SURFACE MOUTNED LIGHT FIXTURE MOUNTING DETAIL

SCALE: NTS

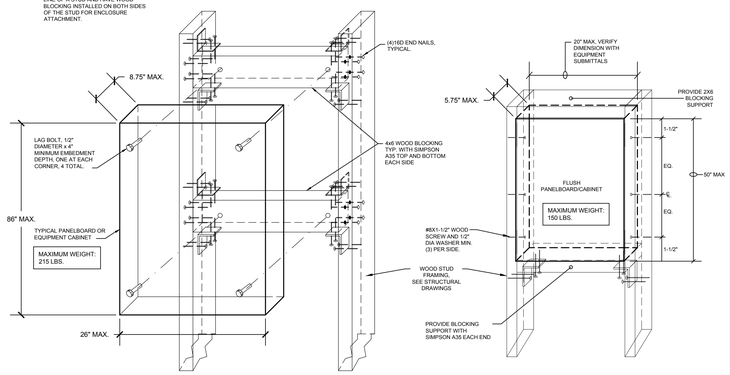


4 EMERGENCY INVERTER CABINET SURFACE MOUNTING DETAIL

SCALE: NTS

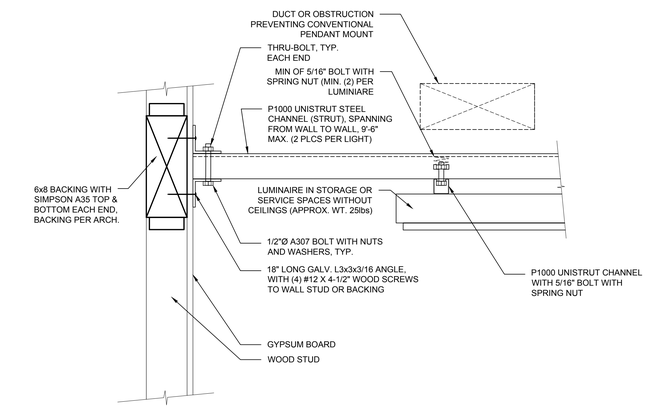
NOTES (APPLIES TO BOTH DETAILS):

1. ALL SCREWS SHALL BE INSTALLED INTO PRE-DRILLED LEAD HOLES
2. SQUARE D NQ/NF PANEL OSP-0016-10
3. WHERE ENCLOSURE WIDTH EXCEEDS STUD BAY WIDTH, THE ENCLOSURE WILL BE MOUNTED AT THE CENTER LINE OF A STUD AND HAVE WOOD BLOCKING INSTALLED ON BOTH SIDES OF THE STUD FOR ENCLOSURE ATTACHMENT.



1 TYP. SURFACE & FLUSH MOUNTED PANEL/CABINET DETAL

SCALE: NTS

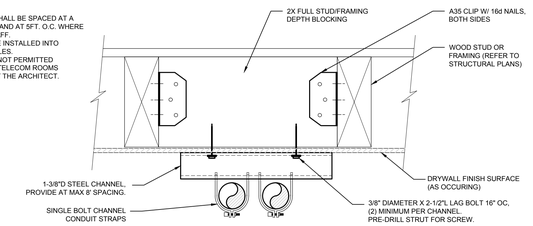


8 SURFACE MOUNT FIXTURE IN ROOM WITHOUT CEILING

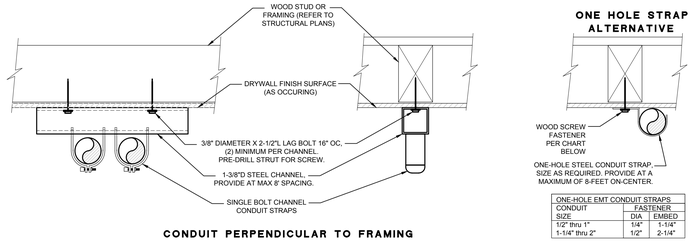
SCALE: NTS

NOTES:

1. CONDUIT SUPPORTS SHALL BE SPACED AT A MAXIMUM OF 8FT. O.C. AND AT 5FT. O.C. WHERE LOCATED BELOW 8FT AFF.
2. LAG SCREWS SHALL BE INSTALLED INTO PRE-DRILLED LEAD HOLES.
3. EXPOSED CONDUIT IS NOT PERMITTED OUTSIDE ELECTRICAL/TELECOM ROOMS UNLESS PERMITTED BY THE ARCHITECT.



CONDUIT PARALLEL TO FRAMING



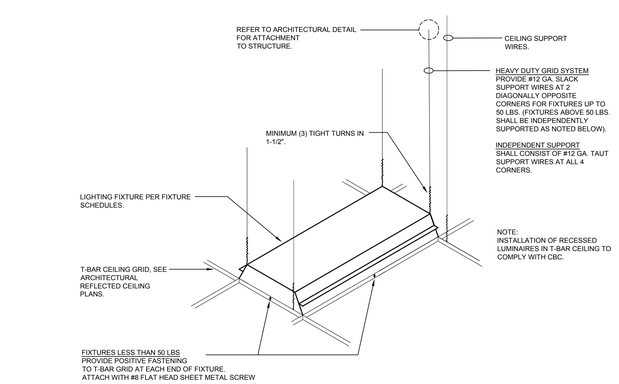
CONDUIT PERPENDICULAR TO FRAMING

ONE HOLE STRAP ALTERNATIVE

ONE-HOLE EMT CONDUIT STRAPS		
CONDUIT SIZE	FASTENER DIA	FASTENER EMBED
1/2" thru 1"	1/4"	1-1/4"
1-1/4" thru 2"	1/2"	2-1/4"

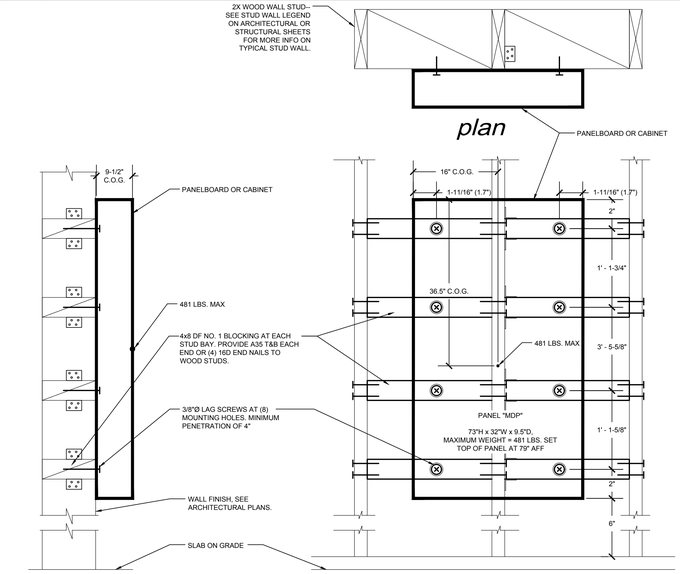
5 CONDUIT ANCHORAGE DETAILS

SCALE: NTS



6 TROFFER LUMINAIRE MOUNTING DETAIL - GRID

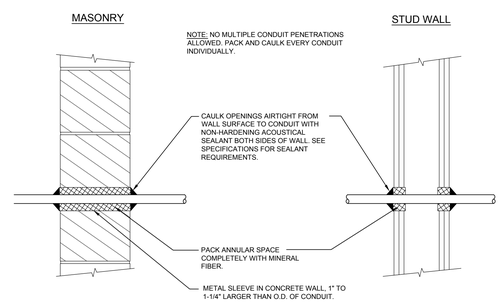
SCALE: NTS



NOTE:
CONTRACTOR SHALL VERIFY MOUNTING DIMENSIONS WITH APPROVED EQUIPMENT PRIOR TO ROUGH-IN.

2 SURFACE MOUNT DISTRIBUTION PANEL

SCALE: NTS



3 SEALED CONDUIT PENETRATION

SCALE: NTS

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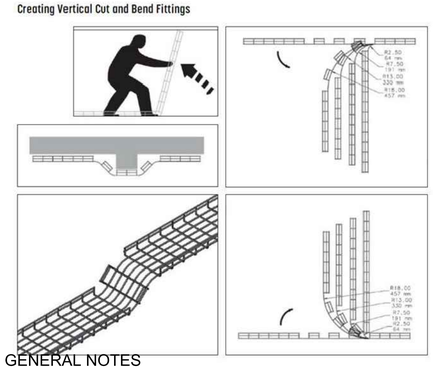
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SHEET TITLE ELECTRICAL DETAILS

SHEET E-402

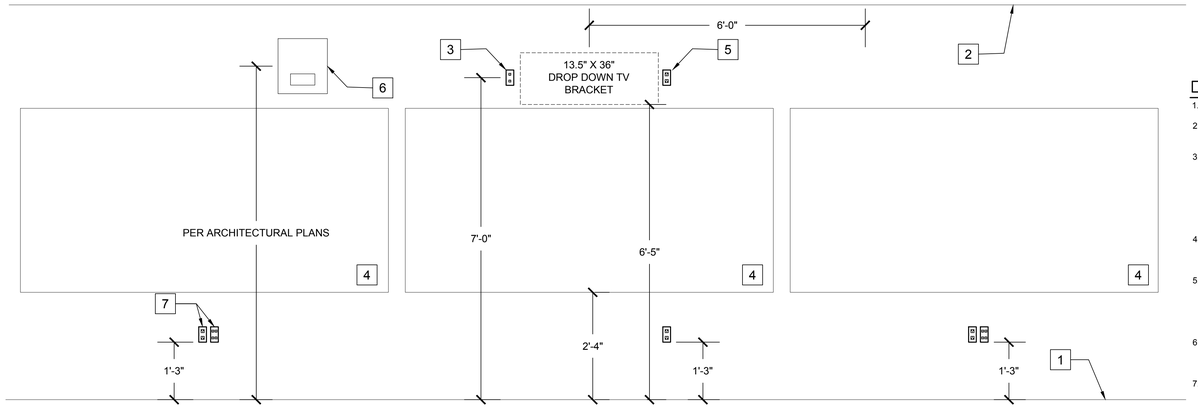
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GENERAL NOTES

1. CONTRACTOR MAY BEND CABLE TRAY ACCORDING TO CABLE TRAY MANUFACTURER'S GUIDELINES IN ORDER TO AVOID STRUCTURAL OBSTACLES IN NORMAL CABLE TRAY PATH OF TRAVEL.
2. GRAPHIC ABOVE DEPICTS METHOD OF CABLE TRAY BEND, HOWEVER, CONTRACTOR SHALL OBTAIN AND FOLLOW MANUFACTURER'S APPROVED INSTRUCTIONS FOR PERFORMING BEND.
3. CABLE TRAY SHALL BE SUPPORTED ACCORDING TO DETAIL 3/E-403. IN SOME CASES, CONTRACTOR MAY BE REQUIRED TO INSTALL ADDITIONAL SUPPORTS TO ENSURE SUPPORT SPAN DISTANCES ARE NOT EXCEEDED IN BEND AREAS.
4. CABLE TRAY BEND RADIUS SHALL NOT BE SMALLER THAN MANUFACTURER'S RECOMMENDATIONS FOR ANY CABLE INSTALLED IN CABLE TRAY.

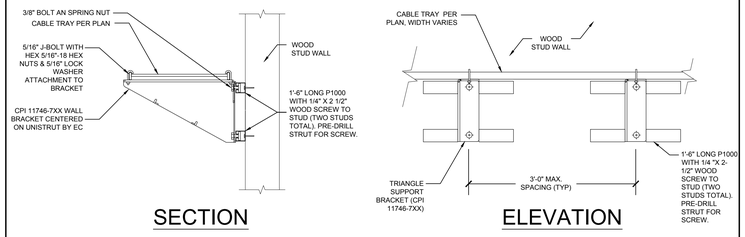
5 CABLE TRAY BEND OVER OBSTACLE
SCALE: NTS



☐ REFERENCE NOTES

1. FINISHED FLOOR.
2. ACCESSIBLE CEILING SPACE PER ARCHITECTURAL PLANS.
3. (N) 2-PORT DATA OUTLET. PROVIDE BEHIND TELEVISION. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN. PROVIDE (2) CAT6 CABLES IN 1-1/4" SMURF TUBE CONDUIT WITHIN WALL. LOCATE DATA OUTLETS AS CLOSE AS POSSIBLE TO THE SIDE EDGE OF TV BRACKETS TO ENSURE TV COVERS CONNECTIONS.
4. MARKER BOARD. ELEVATION SHOWS THREE. SOME AREAS WILL HAVE LESS. REFER TO ARCHITECTURAL ELEVATIONS.
5. (N) DUPLEX RECEPTACLE OUTLET. PROVIDED BEHIND TELEVISION. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN. LOCATE POWER OUTLETS AS CLOSE AS POSSIBLE TO THE SIDE EDGE OF TV BRACKETS TO ENSURE TV COVERS CONNECTIONS.
6. (N) SPEAKER/CLOCK COMBO DEVICE INSTALLED PER MANUFACTURER SPECIFICATIONS. SEE DETAIL 6 ON THIS SHEET.
7. (N) DUPLEX RECEPTACLE OUTLET AND (N) 4-PORT DATA OUTLET BELOW EACH MARKER BOARD (REFER TO FLOOR PLAN FOR LAYOUT REQUIREMENTS). COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.

1 TYPICAL RECESSED MEDIA LAYOUT - TEACHING WALL
SCALE: NTS



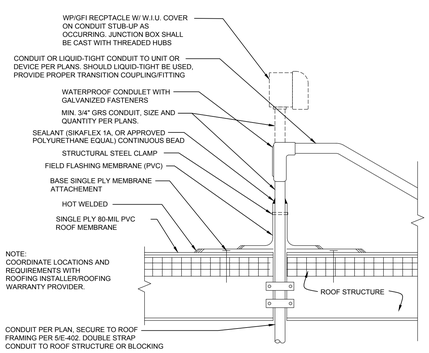
NOTES:
1. EC SHALL BOND ALL CABLE TRAY ELEMENTS WITH MANUFACTURER'S APPROVED BONDING CONNECTOR, CONNECTED BY GREEN #6 AWG, THWN CONDUCTOR.
2. MAX WEIGHT IS 25LBS/FT.

3 WALL MOUNT LADDER TRAY
SCALE:

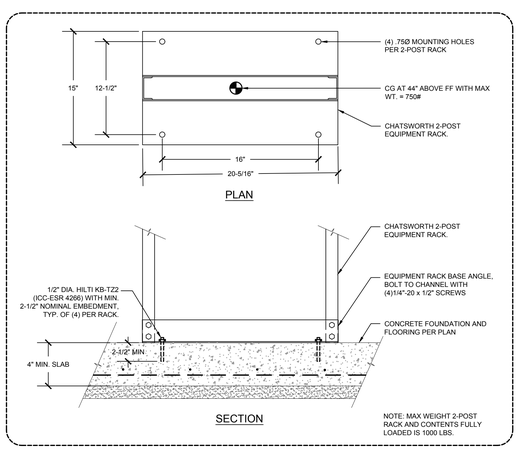
MAXIMUM RACK WEIGHT - 1000LBS.

2 TYPICAL DATA RACK MOUNTING DETAIL
SCALE: NTS

6 NOT USED
SCALE: NTS



2 TYP. CONDUIT ROOF PENETRATION DETAIL
SCALE: NTS



4 RACK ANCHORAGE DETAIL
SCALE: NTS

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EXP. 09/30/26 REF. 24-8089

CONSULTANT INFORMATION

REVISION	DESCRIPTION	DATE	BY
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DRAWN JC/RP/TH
CHECKED JT
DATE 06/01/26
JOB. NO. 24010

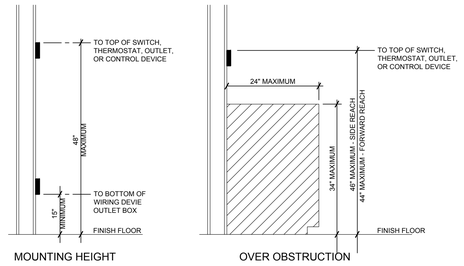
SHEET TITLE ELECTRICAL DETAILS

SHEET E-403

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7 NOT USED
SCALE: NTS

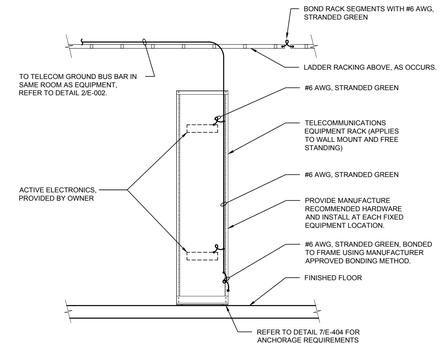
4 TYPICAL DEVICE ADA MOUNTING HEIGHT
SCALE: NTS



ELECTRICAL SWITCHES: CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHT AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE OUTLET BOX NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE OUTLET BOX TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM. [CBC 11B-308.1.1]

ELECTRICAL RECEPTACLE OUTLETS: ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM [CBC 11B-308.1.2]

1 TYPICAL TELECOMMUNICATIONS BONDING
SCALE: NTS



PORTABLE SYSTEM KIT

FOUR SETS OF ASSISTED LISTENING SYSTEMS SHALL BE STORED IN A DESIGNATED AREA (COORDINATE WITH DISTRICT) AND SHARED AS NECESSARY TO COMPLY WITH EACH CLASSROOM AREA REQUIRING ASSISTED LISTENING SYSTEMS (ALS). PORTABLE SYSTEM SHALL BE MANUFACTURED BY LISTEN TECHNOLOGIES:

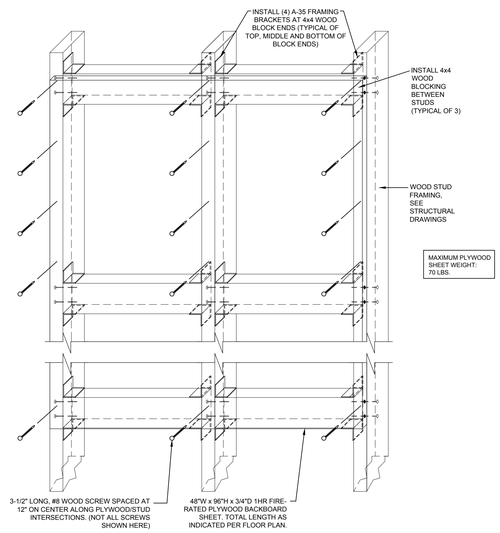
(4) FM ADA KIT 37 - EACH KIT CONSISTS OF THE FOLLOWING COMPONENTS:

A. (1) LT-84-01 LISTENIR TRANSMITTER / RADIATOR COMBO
B. (4) LR-4200 IR INTELLIGENT DSP IR RECEIVERS
C. (4) LA-430 INTELLIGENT EAR PHONE / NECK LOOP LANYARDS
D. (2) LA-401 UNIVERSAL EAR SPEAKER
E. (1) LA-277 CONFERENCE MICROPHONE
F. (1) LA-338 TABLE TOP TRIPOD
G. (1) LA-346 CARRYING CASE
H. (1) LA-423 4-PORT USB CHARGER
I. (1) LOT - AA ALKALINE BATTERIES
J. ADA WALL PLAQUE(S) (<-- EC SHALL COORDINATE TO WALL-MOUNT ON EACH ROOM)

REFER TO ARCHITECTURAL SHEETS FOR ALS SIGNAGE REQUIREMENTS.

5 ASSISTED LISTENING COMPONENT LISTS
SCALE: NTS

2 NOT USED
SCALE: NTS



6 VOICE/DATA TELECOM BACKBOARD MOUNTING
SCALE: NTS

3 NOT USED
SCALE: NTS

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DIV. OF THE STATE ARCHITECT
APP: 03-125456 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026

SAN LUS COASTAL UNIFIED SCHOOL DISTRICT

SAN LUIS OBISPO HIGH SCHOOL
1499 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93

NEW CLASSROOM BUILDING & RELOCATION OF MODULAR RESTROOM

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SHEET TITLE ELECTRICAL DETAILS

SHEET E-404

GL-2 FIRE ALARM NOTES CHECKLIST:

1. APPLICABLE STANDARD NFPA 72, AS ADOPTED AND AMENDED IN CBC CHAPTER 35
2. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN APPROVED BY DSA.
3. UPON COMPLETION OF SYSTEM INSTALLATION, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.
4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.
6. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND /OR TESTING.
7. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
8. WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
9. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THAN 6" TO A HORIZONTAL STRUCTURE.
10. AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (DBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR FIVE DBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPIABLE SPACE WITHIN THE BUILDING.
11. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.

    2.16 APPLICABLE CODES: ENSURE THE CURRENT CODES ARE LISTED ON THE PLANS.

12. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
13. VISIBLE DEVICES SHOULD NOT EXCEED TWO FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELLA. VISIBLE DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
14. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
15. ALL FIRE ALARM WIRING SHALL BE FPL OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE THHN OR THWN.
16. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.
17. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM, DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
18. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
19. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
20. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL." CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.
21. THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETED "SYSTEM RECORD OF COMPLETION" PER NFPA 72, FIGURE 17.8.2.
22. FIRE ALARM CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48" ABOVE THE FINISHED FLOOR.
23. MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.
24. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
25. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
26. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.

SEQUENCE OF OPERATIONS

FUNCTION / DEVICE	ACTIVATE VISUAL ALARM SIGNAL	ACTIVATE AUDIBLE ALARM SIGNAL	ACTIVATE SUPERVISORY ALARM AT FACP	ANNUNCIATE AT FIRE CONTROL REMOTE ANNUNCIATOR (alarm & trouble)	ANNUNCIATE AT FIRE CONTROL PANEL (alarm & trouble)	ANNUNCIATE AT 24-HOUR ATTENDED REMOTE LOCATION (alarm & trouble)
AREA SMOKE & HEAT DETECTOR	YES	YES	YES	YES	YES	YES
FIRE SPRINKLER FLOW SWITCH	YES	YES	YES	YES	YES	YES
FIRE SPRINKLER TAMPER SWITCH	NO	NO	YES	YES	YES	YES
DOUBLE DETECTOR CHECK VALVE TAMPER SWITCH	NO	NO	YES	YES	YES	YES
BUILDING POWER FAILURE	NO	NO	NO	YES	YES	YES
EARTH GROUND FAULT	NO	NO	NO	YES	YES	YES
OPEN CIRCUIT	NO	NO	NO	YES	YES	YES
NOTIFICATION APPLIANCE CKT. SHORT	NO	NO	NO	YES	YES	YES
FA SYSTEM LOW BATTERY	NO	NO	NO	YES	YES	YES

FIRE ALARM SYMBOLS LEGEND:

DEVICES SYMBOL	MODEL #	CSFM #
	EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM(EV/ACS) FIRE ALARM CONTROL PANEL NOTIFIER: NFS2-3030 WITH: CENTRAL PROCESSING UNIT WITH KEYBOARD DISPLAY: CPU2-3030D DIGITAL VOICE COMMAND WITH KEYBOARD DISPLAY: DVC-EM / DVC-KD MICROPHONE: CMIC-1 DIGITAL AUDIO AMPLIFIER: DAA2-5025 FIBER OPTIC MODULE DS-FM ADDRESSABLE CHARGER/POWER SUPPLY: ACPS-610 LOOP CONTROL/LOOP EXPANDER: LCM-320 / LEM-320 POWER SUPPLY: AMPS-24	7165-0028:0224 EXISTING STYTEM INSTALLED UNDER DSA#:03-116941 CLOSED:3/29/2016
SD ****	ADDRESSABLE SMOKE **** DETECTOR NOTIFIER: FSP-951 WITH B300-6 BASE	7272-0028:0503 7300-1653:0109
H ****	ADDRESSABLE HEAT DETECTOR NOTIFIER: FST-951 WITH B300-6 BASE ****	7272-0028:0502 7300-1653:0109
MM	MONITOR MODULE NOTIFIER: FMM-101	7300-0028:0219
DM	DUAL MONITOR MODULE NOTIFIER: FDM-1	7300-0028:0219
S WP (***W)	SPEAKER (WEATHER PROOF) * SYSTEM SENSOR: SPWK	7320-1653:0201
SV (**cd) (***W)	SPEAKER/STROBES-CEILING * SYSTEM SENSOR: SPSCWLED-P	7125-1653:0533
SV (**cd) (***W)	SPEAKER/STROBES-WALL * SYSTEM SENSOR: SPSWLED-P	7125-1653:0533
TF	FIRE SPRINKLER TAMPER AND FLOW SWITCH - BY OTHERS	--
DDCV	SPRINKLER DOUBLE DETECTOR CHECK VALVE - BY OTHERS	--
TVSS	SURGE PROTECTOR SPACE AGE: E120V-GT	--
	END OF LINE RESISTOR (EOLR) (PROVIDE LABEL ON EXTERIOR OF DEVICE WHERE EOLR IS LOCATED)	--

ALL NOTIFICATION DEVICES SHALL BE WHITE.

* ENSURE NOTIFICATION DEVICES IS NOT PROVIDED WITH ANY "FIRE" MARKING OR IMPRINT ON THE DEVICE SINCE THIS DEVICE IS USED FOR BOTH FIRE NOTIFICATION AND CARBON MONOXIDE NOTIFICATION.

** DEVICE HAS MULTIPLE CANDELA RATINGS. THE E.C. IS RESPONSIBLE FOR CORRECTLY SETTING EACH STROBE OR SPEAKER/STROBE DEVICE ACCORDING TO THESE FIRE ALARM DRAWINGS.

*** DEVICE HAS MULTIPLE WATTAGE SETTINGS. THE E.C. IS RESPONSIBLE FOR CORRECTLY SETTING EACH SPEAKER OR SPEAKER/STROBE DEVICE ACCORDING TO THESE FIRE ALARM DRAWINGS.

**** PER DISTRICT REQUEST, CONTRACTOR SHALL PROVIDE 10% OVERSTOCK OF ALL HEAT AND SMOKE DETECTORS.

COMPLETE AUTOMATIC FIRE ALARM SYSTEM SUBMITTAL

LABELING AND PROGRAMMING OF DEVICES

CONTRACTOR SHALL ENSURE ALL ROOM NAMES AND NUMBERS MATCH CURRENT FIELD CONDITIONS WHEN PROGRAMING PANELS AND ADDRESSABLE DEVICES.

ALL DEVICES SHALL BE LABELED ON EXTERIOR OF DEVICE AND HAVE ADDRESS THAT CORRESPONDS TO FINAL RECORD DRAWINGS, CONTRACTOR TO GENERATE AN EQUIPMENT LABELING SUBMITTAL PRIOR TO INSTALLATION FOR OWNERS REVIEW AND APPROVAL.

OVERSTOCK

PROVIDE 10% OVERSTOCK FOR ALL HEAT AND SMOKE DETECTOR SPARES AS LOOSE ITEMS IN MANUFACTURERS PACKAGING TO THE OWNER, DELIVER PRODUCTS TO A LOCATION ACCEPTABLE TO THE OWNER.

FIRE WATCH

DURING INSTALLATION OF THE NEW FIRE ALARM SYSTEM, A FIRE WATCH SHALL BE USED IN ACCORDANCE WITH CFC 901.7. THE FIRE WATCH SHALL REMAIN IN PLACE UNTIL THE COMPLETION OF THE FIRE ALARM INSTALLATION AND ALL TESTS AND CERTIFICATIONS HAVE BEEN COMPLETED.

VOICE NOTIFICATION MESSAGE

EV/ACS SHALL HAVE THE FOLLOWING PROGRAMMED MESSAGES IN BOTH ENGLISH AND SPANISH:

-(MESSAGE TONE)"THIS IS A TEST OF THE EMERGENCY AUDIO SYSTEM."(PROVIDE A 2 SECOND PAUSE)(REPEAT THE MESSAGE.)

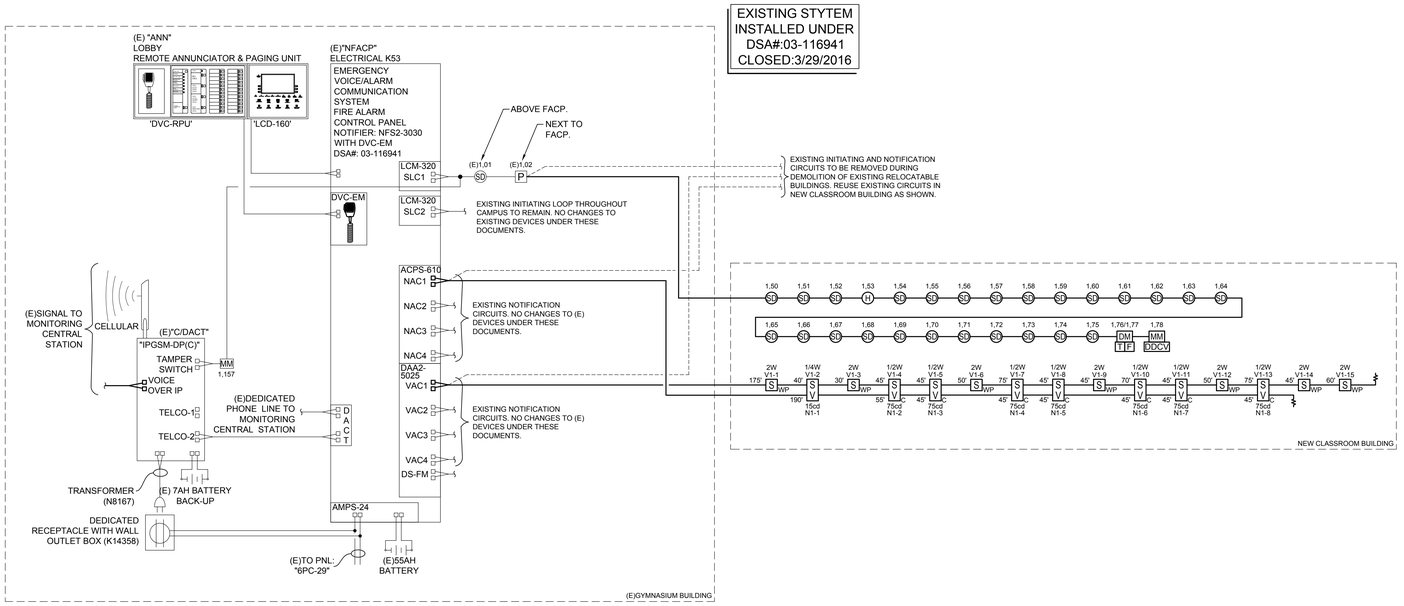
-(TEMPORAL 3 TONE FOLLOWED BY) "MAY I HAVE YOUR ATTENTION PLEASE! MAY I HAVE YOUR ATTENTION PLEASE! THE SIGNAL YOU JUST HEARD INDICATED A REPORT OF AN EMERGENCY IN THIS BUILDING. PLEASE PROCEED TO THE NEAREST EXIT AND LEAVE THE BUILDING. DO NOT RE-ENTER THE BUILDING UNLESS DIRECTED TO DO SO BY THE PROPER AUTHORITIES." (PROVIDE A 2 SECOND PAUSE.)(REPEAT THE MESSAGE.)

-(TEMPORAL 4 TONE FOLLOWED BY) MAY I HAVE YOUR ATTENTION PLEASE! MAY I HAVE YOUR ATTENTION PLEASE! CARBON MONOXIDE HAS BEEN DETECTED IN THE BUILDING. PLEASE PROCEED TO THE NEAREST EXIT AND LEAVE THE BUILDING. DO NOT RE-ENTER THE BUILDING UNLESS DIRECTED TO DO SO BY THE PROPER AUTHORITIES.(PROVIDE A 2 SECOND PAUSE.)(REPEAT THE MESSAGE.)

-(MESSAGE TONE)"YOUR ATTENTION PLEASE. THE BUILDING EMERGENCY CONDITION HAS BEEN CLEARED. YOU MAY RETURN TO YOUR NORMAL ACTIVITY. THE BUILDING EMERGENCY CONDITION HAS BEEN CLEARED. YOU MAY RETURN TO YOUR NORMAL ACTIVITY.(PROVIDE A 2 SECOND PAUSE.)(REPEAT THE MESSAGE TWICE.)

FIRE ALARM SYSTEM NOTES

- FIRE ALARM SYSTEM SHALL BE SUPERVISED BY AN APPROVED, UL LISTED CENTRAL STATION (UUFX) OR REMOTE STATION (UUUS) MONITORING COMPANY. (REF: CFC, 907.6.6.4, 2022 EDITION)
- A DOCUMENTATION CABINET SHALL BE INSTALLED AT THE SYSTEM CONTROL UNIT OR AT ANOTHER APPROVED LOCATION AT THE PROTECTED PREMISES. (NFPA 72, 7.7.2.1, 2022 EDITION)
- ALL RECORD DOCUMENTATION SHALL BE STORED IN THE DOCUMENTAION CABINET. NO RECORD DOCUMENTATION SHALL BE STORED IN THE CONTROL UNIT.(NFPA 72, 7.7.2.3, 2022 EDITION)
- THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED "SYSTEM RECORD DOCUMENTS". (NFPA 72, 7.7.2.5, 2022 EDITION)



SIGNAL DEVICE CIRCUITING LEGEND

DEVICE SYMBOL — V
SIGNAL CIRCUIT # (N)NAC (V)VAC — N1 - 1 — DEVICE #

INITIATING DEVICE CIRCUITING LEGEND

P — DEVICE SYMBOL
SIGNAL LINE CIRCUIT # — 1.08 — DEVICE ADDRESS NUMBER

GENERAL NOTES

APPLIES TO ALL RISER SHEETS

1. 120 VAC WIRING WILL BE MINIMUM #12 AWG.
2. ALL FIRE ALARM WIRING SHALL BE INSTALLED IN A CONDUIT OR RACEWAY SYSTEM U.O.N.
3. WIRING SHALL NOT BE LOOPED THROUGH DEVICE; WIRE MUST BE CUT FOR IN AND OUT.
4. ALL DEVICES POLARITY MUST BE OBSERVED.
5. FIRE ALARM CONDUIT AND WIRING INSTALLATION SHALL COMPLY WITH CALIFORNIA ELECTRICAL CODE #760.
6. THIS IS A COMPLETE FIRE ALARM SUBMITTAL: If an alternate system is proposed, Contractor shall submit a separate set of engineered plans, specifications, and engineering calcs. for prior approval to the Owner, Division of State Architect (DSA), Architect, and Engineer including but not necessaliy limited to:
   a. All CSFM listing numbers and Manufacturers model numbers for all system components proposed for this system.
   b. Complete Riser Diagram with point to point wiring diagrams including battery and voltage drop calculations for the entire system.
   c. Indication of conductor type(s), power-limited or non-power limited system.
   d. Information as required to demonstrate compliance with all applicable code(s) and to obtain approval of all Authority(ies) having Jurisdiction (AHJ). In the event of a substitution, installation shall not begin until separate approval has been obtained and all of the above has been accepted and signed by the (AHJ) and the Architect, see Specification Section 01631 regarding substitutions. If routing differs significantly from these plans, approval of the Engineer must be obtained before installation. After construction, provide an accurate set of field record drawings to Owner.
7. FIRE ALARM SYSTEM SHALL BE SURVIVABILITY LEVEL-0.
8. CONTRACTOR SHALL REVIEW ARCHITECTURAL, MECHANICAL, PLUMBING, CIVIL, THEATRICAL LIGHTING, FIRE PROTECTION, FOOD SERVICE AND ALL OTHER PROJECT DRAWINGS AND SPECIFICATIONS, CONFIRM ALL REQUIRED FIRE ALARM CONNECTION AND INCLUDE WITH BID.

CABLING SCHEDULE

1. 1" C - (2)#14 TWISTED UNSHIELDED, WINDY CITY WIRE 767960(INTERIOR), 729110VNQ(EXTERIOR) (CSFM# 7161-1727:0100) OR CABLING AS PER MANUFACTURERS RECOMMENDATIONS.
2. 1" C -(2)#14 TWISTED SHIELDED PAIR, WINDY CITY WIRE 767920(INTERIOR), 712110VNQ(EXTERIOR), (CSFM# 7161-1727:0100) OR CABLING AS PER MANUFACTURERS RECOMMENDATIONS.
3. 1" C - (2)#18 TWISTED UNSHIELDED PAIR, WINDY CITY WIRE 762360(INTERIOR), 727110VNQ(EXTERIOR) (CSFM# 7161-1727:0100) OR CABLING AS PER MANUFACTURERS RECOMMENDATIONS.

** CONDUIT SIZE SHOWN IS MINIMUM, UNLESS OTHERWISE NOTED ON PLANS, REFER TO SITE AND FLOOR PLANS FOR ADDITIONAL FIRE ALARM CONDUIT SIZE REQUIREMENTS. EC SHALL SUBMIT CABLE MAKE/MODEL/CSFM LISTING (OR APPROVED EQUAL) WITH FIRE ALARM PROJECT DATA.

SYSTEM DESCRIPTION

INITIATING CIRCUIT CLASS: 'B'

SYSTEM TYPE: AUTOMATIC

INDICATING CIRCUIT CLASS: B

THE FIRE ALARM SYSTEM SHALL BE OF A TYPE THAT UPON ACTIVATION INITIATES NOTIFICATION BY MEANS OF AND EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM (EV/ACS).

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NEW CLASSROOM BUILDING
& RELOCATION OF MODULAR RESTROOM

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SHEET TITLE: FIRE ALARM RISER DIAGRAM AND LEGEND

SHEET E-501

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BATTERY CALCULATIONS

PROJECT: **SLOHS New Classrom Bldg.-FACP**
Based on 24 Hour Standby

Device	Manufacturer	#	QTY	Standby Amps	Total Standby Amps	Alarm Amps	Total Alarm Amps
(E)EV/ACS Control Panel	Notifier	NFS2-3030	1	0.5900	0.590	0.8500	0.850
Loop Control Module	Notifier	LCM-320	1	0.1300	0.130	0.1300	0.130
Remote Annunciator	Notifier	LCD-180/DVC-I	1	0.6800	0.680	0.7250	0.725
(E)Smoke Detector	Notifier	FSP-851	105	0.0003	0.032	0.0003	0.032
(N)Smoke Detector	Notifier	FSP951	25	0.0002	0.005	0.0002	0.005
(E)Heat Detector	Notifier	FST-851	96	0.0003	0.029	0.0003	0.029
(N)Heat Detector	Notifier	FST-951	1	0.0002	0.000	0.0002	0.000
(E)Beam Detector	Notifier	FSB-200	8	0.0020	0.016	0.0085	0.068
(E)Pull Station	Notifier	NBG-12LX	2	0.0038	0.001	0.0050	0.010
(E)Monitor Module	Notifier	FMM-101	1	0.0003	0.000	0.0003	0.000
(N)Monitor Module	Notifier	FMM-101	1	0.0003	0.000	0.0003	0.000
(N)Relay Module	Notifier	FRM-1	12	0.0002	0.003	0.0002	0.003
(N)Dual Monitor Module	Notifier	FDM-1	1	0.0007	0.001	0.0007	0.001
(E)Speaker-Weatherproof (2W Speaker)	System Sensor	SPWK	7	0.0000	0.000	0.0833	0.583
(N)Speaker-Weatherproof (2W Speaker)	System Sensor	SPWK	7	0.0000	0.000	0.0833	0.583
(E)Speaker/Visual-15cd (.5WSpeaker)-Wall	System Sensor	SPSW-P	2	0.0000	0.000	0.0868	0.174
(E)Speaker/Visual-75cd (.5WSpeaker)-Wall	System Sensor	SPSW-P	12	0.0000	0.000	0.1758	2.110
(E)Speaker/Visual-30cd (.5WSpeaker)-Ceiling	System Sensor	SPSCW-P	3	0.0000	0.000	0.1148	0.344
(E)Speaker/Visual-75cd (.5WSpeaker)-Ceiling	System Sensor	SPSCW-P	1	0.0000	0.000	0.1758	0.176
(E)Visual-15cd -Wall	System Sensor	SW-P	3	0.0000	0.000	0.0660	0.198
(E)Visual-15cd -Ceiling	System Sensor	SCW-P	7	0.0000	0.000	0.0660	0.462
(E)Visual-30cd -Ceiling	System Sensor	SCW-P	1	0.0000	0.000	0.0940	0.094
(N)Speaker/Visual-15cd (.25WSpeaker)-Wall	System Sensor	SPSWLED-P	1	0.0000	0.000	0.0284	0.028
(N)Speaker/Visual-75cd (.5WSpeaker)-Ceiling	System Sensor	SPSCWLED-P	7	0.0000	0.000	0.0908	0.636
			0	0.0000	0.000	0.0000	0.000
				Total:	1.486	Total:	7.240

Total Standby Amps =	1.486 x	24	Hours =	35.675	Amp-Hours
Total Alarm Amps =	7.240 x	0.25	Hours = (15 minutes)	1.810	Amp-Hours
Total Amp-Hours required after 24 hours standby and 15 minutes alarm.				37.485	Amp-Hours
Total Battery Amp-Hours required: Total Amp-Hours required x 1.2 =				44.98	Amp-Hours
Total Amp-Hours Supplied=				55	Amp-Hours
Spare Capacity=				10.018	Amp-Hours

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME: SLOHS New Classrom Bldg.
SIG CKT #: V1

DEVICE #	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	175	40	30	45	45	50	75	45	45	70
AMPS @ DEVICE	0.0104	0.0208	0.083	0.0208	0.0208	0.083	0.0208	0.0208	0.083	0.0208
AMPS DEVELOPED	0.6748	0.6644	0.6436	0.5606	0.5398	0.519	0.436	0.4152	0.3944	0.3114
VOLT. DROP	0.595	0.134	0.097	0.127	0.122	0.131	0.165	0.094	0.089	0.110

DEVICE #	11th	12th	13th	14th	15th	16th	17th	18th	19th	20th
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	45	50	75	45	60	0	0	0	0	0
AMPS @ DEVICE	0.0208	0.083	0.0208	0.083	0.083	0	0	0	0	0
AMPS DEVELOPED	0.2906	0.2698	0.1868	0.166	0.083	0	0	0	0	0
VOLT. DROP	0.066	0.068	0.071	0.038	0.025	0.000	0.000	0.000	0.000	0.000

FORMULA	
X FEET X OHMS / FT	
SIGNAL CIRCUIT =	V1
TOTAL CKT V.D.=	1.932
TOTAL CKT AMPS.=	0.675
CKT VOLTAGE=	20.4
VOLTAGE AT FINAL DEVICE=	18.468
% VOLTAGE DROP=	9.472

WIRE SIZE	RESIS /M FT	CIRC MILS
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME: SLOHS New Classrom Bldg.
NAC/VISUAL SIG CKT#: N1

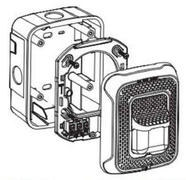
CKT/DEVICE #	N1-1	N1-2	N1-3	N1-4	N1-5	N1-6	N1-7	N1-8	N1-9	N1-10
DEVICE	S/V15cd	S/V75cd-C	S/V75cd-C	S/V75cd-C	S/V75cd-C	S/V75cd-C	S/V75cd-C	S/V75cd-C	0	0
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	190	55	45	45	45	45	45	45	0	0
AMPS @ DEVICE	0.018	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0	0
AMPS DEVELOPED	0.508	0.49	0.42	0.35	0.28	0.21	0.14	0.07	0	0
VOLT. DROP	0.486	0.136	0.095	0.079	0.064	0.048	0.032	0.016	0.000	0.000

CKT/DEVICE #	N1-11	N1-12	N1-13	N1-14	N1-15	N1-16	N1-17	N1-18	N1-19	N1-20
DEVICE	0	0	0	0	0	0	0	0	0	0
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	0	0	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
X FEET X OHMS / FT	
SIGNAL CIRCUIT =	N1
TOTAL CKT AMPS.=	0.508
CIRCUIT LENGTH =	515FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.956
VOLTAGE AT FINAL DEVICE=	19.444
% VOLTAGE DROP=	4.685

DEVICE LEGEND	
SPEAKER/VISUAL	=S/V
VISUAL DEVICE	=V
CANDELA RATING	=XXcd
CEILING	=C
WALL	=(BLANK)

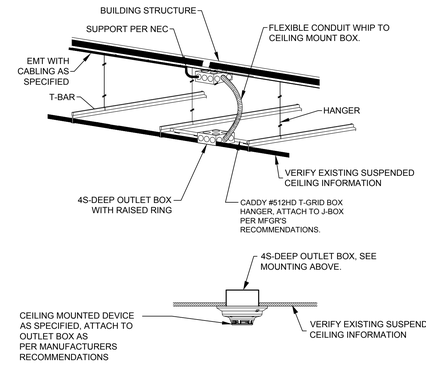
WIRE SIZE	RESIS /M FT	CIRC MILS
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404



WALL-MOUNT SPEAKER AND SPEAKER STROBE
WITH SBBSPWL SURFACE MOUNTED BACK BOX

6 SPEAKER, SPEAKER/STROBE MOUNTING DETAIL - INTERIOR

SCALE: N.T.S.



6 TYPICAL DEVICE MOUNTING DETAIL AT T-BAR CEILINGS

NTS

Party Site No.: **583233**
Expires: **31-Dec-2026**

CERTIFICATE OF COMPLIANCE

THIS IS TO CERTIFY that the Alarm / Service Company identified below is included by - UL Solutions (UL) in its UL Product iQ directories as eligible to use the UL Listing Mark in connection with Certificated Systems. The only evidence of compliance with UL's requirements is the issuance of a UL Certificate for the System and the Certificate is active under UL's Certificate Verification Service. This Certificate does not apply in any way to the communication channel between the protected property and any facility that monitors signals from the protected property.

Listed Service From: SYRACUSE , NEW YORK

Alarm / Service Company: (583233)

RAPID RESPONSE MONITORING SERVICES INC
400 W DIVISION ST
SYRACUSE , New York 13204-1438 UNITED STATES 1.888.600.0324

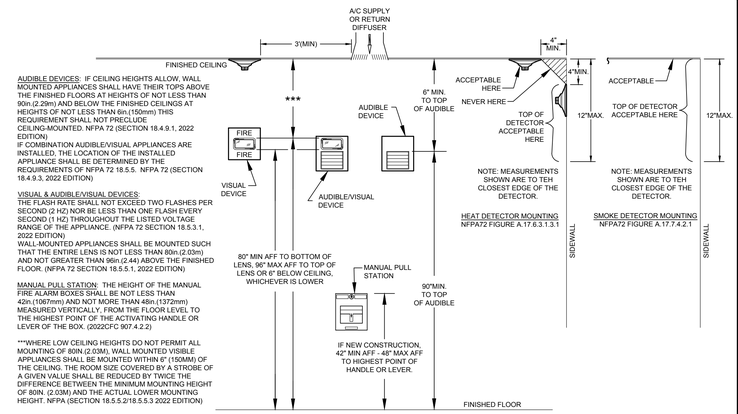
The Alarm / Service Company is Listed in the following Certificate Service Categories:

File	Vol No.	CCN	Listing Category
S3282	1	UUFX	Central-station Protective Signaling Services
S36357	1	UUFO	Central-station Host Services
BP6716	1	CRZH	National Industrial Security Systems
BP8585	1	CVSG	Mercantile Burglar Alarm Systems
BP10434	1	CRZM	Monitoring Stations, National Industrial Security
BP36853	1	CAVS	Alarm Validation Scoring

*****THIS CERTIFICATE EXPIRES ON 31-DEC-26*****

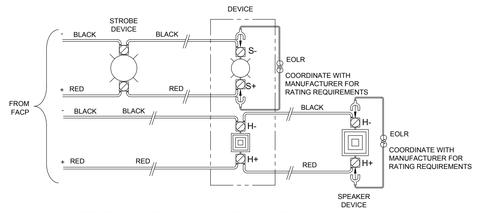
"LOOK FOR THE UL ALARM / SYSTEM CERTIFICATE"

7 FIRE ALARM MONITORING CENTRAL STATION UL CERTIFICATION



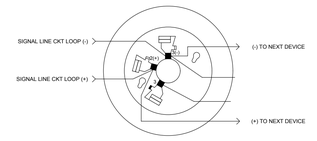
1 DEVICE ELEVATION DETAIL

SCALE: N.T.S.



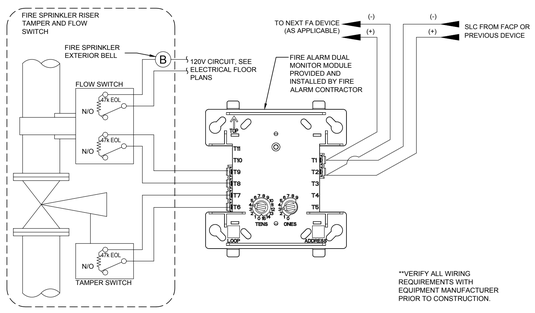
2 TYPICAL NOTIFICATION CIRCUIT WIRING DIAGRAM

SCALE: N.T.S.



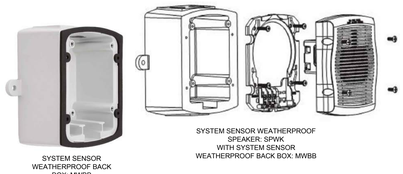
3 ADDRESSABLE SMOKE & HEAT DETECTOR WIRING DIAGRAM

SCALE: N.T.S.



4 FIRE SPRINKLER RISER VALVE WIRING DIAGRAM

SCALE: N.T.S.



SYSTEM SENSOR WEATHERPROOF BACK BOX: MWBB

SYSTEM SENSOR WEATHERPROOF SPEAKER: SPWK WITH SYSTEM SENSOR WEATHERPROOF BACK BOX: MWBB

5 WEATHERPROOF SPEAKER MOUNTING DETAIL

SCALE: N.T.S.

thoma ENGINEERING
THOMA ELECTRIC, INC.
3562 EMPLEO ST.
SAN LUIS OBISPO, CA 93401
PHONE: (805) 543-3850
FAX: (805) 543-3829

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125456 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026

SAN LUIS OBISPO HIGH SCHOOL
1499 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401
NEW CLASSROOM BUILDING
& RELOCATION OF MODULAR RESTROOM

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELLAGA STREET SANTA BARBARA CA 93101
TELEPHONE (805) 963-1726 FAX (805) 963-2951
JOE S. WILCOX, AIA
PRINCIPAL-IN-CHARGE
MAT GRADIAS, AIA
PROJECT MANAGER

All ideas, design arrangements and plans indicated or represented by drawing are owned by and are the property of Kruger-Bensen-Ziemer, Architects, and were created, evolved and developed for use on, and connection with, the specified projects. None of such ideas, designs, arrangements or plans shall be used by or disclosed to any person, corporation for any purpose whatsoever without the written permission of Kruger-Bensen-Ziemer.

ARCHITECT'S STAMP & SIGNATURE
ENGINEER'S STAMP & SIGNATURE

LICENSED ARCHITECT JOE S. WILCOX No. C-9808 Ren. 8-25 STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER JEFFREY M. THOMA NO. 20823 ELECTRICAL STATE OF CALIFORNIA EXP. 09/30/26

REF. 24-8089

CONSULTANT INFORMATION

REVISION	DESCRIPTION	DATE	BY
5			
4			
3			
2			
1			

DRAWN JC/RP/TH
CHECKED JT
DATE 06/01/26
JOB. NO. 24010

SHEET TITLE: FIRE ALARM DETAILS

SHEET: E-502

K:\ENG\2024\24-8089\24-8089_E-501-E-503_FA RISER.dwg - Roger - Jan 13, 2026 - 8:18am

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: SLO HS New Classroom Building	Report Page:	(Page 7 of 9)
	Date Prepared:	7/31/2025

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

[2] Luminaires that qualify for PAF 5, 6, or 7 can be used in conjunction with PAF 1.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

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

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: SLO HS New Classroom Building	Report Page:	(Page 4 of 9)
	Date Prepared:	7/31/2025

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Required >= 4,000W subject to multilevel	Whole Building Auto Time Switch	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
Whole Building	All Other Space Types	Readily Accessible	Dimmer	See Building Level	Included	Included	No	☐	☐
								13	
								Plan Sheet Showing Daylit Zones:	

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

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

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
CLASSROOMS	Classroom, Lecture, or Training Vocational	0.6	7,264	4,358.4	No	Yes
RESTROOMS	Restroom	0.65	86	55.9	No	No
UTILITY	Classroom, Lecture, or Training Vocational	0.6	1,247	748.2	No	No
ELECTRICAL	Electrical Mechancial Telephone Room	0.4	111	44.4	No	No
		TOTALS:	8,708	5,206.9	See Tables J, or P for detail	

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: SLO HS New Classroom Building	Report Page:	(Page 1 of 9)
Project Address: 1499 San Luis Drive	Date Prepared:	7/31/2025

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

A. GENERAL INFORMATION

01	Project Location (city)	San Luis Obispo	04	Total Conditioned Floor Area (ft²)	8,708
02	Climate Zone	5	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

● Classroom ● Support Areas ● All Other Occupancies

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Area Category Method	8708	Area Category Method	0
☐ New Lighting System - Parking Garage				
Total Area of Work (ft²)	8708		0	

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: SLO HS New Classroom Building	Report Page:	(Page 8 of 9)
	Date Prepared:	7/31/2025

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This table documents clerestories, horizontal slats or light shelves meet the requirements in 140.3(d) / 170.2(e)2B if a Power Adjustment Factor was claimed on Table P. These features must be documented on the architectural plans or where appropriate within the construction documents. This PAF also must be verified in the field with an acceptance test per Table U.

01	Compliance Strategy	

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Whole Building Time Switch;
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Whole Building;
NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	Whole Building Demand Response;

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: SLO HS New Classroom Building	Report Page:	(Page 5 of 9)
	Date Prepared:	7/31/2025

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: SLO HS New Classroom Building	Report Page:	(Page 2 of 9)
	Date Prepared:	7/31/2025

C. COMPLIANCE RESULTS

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

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)						Compliance Results
	01	02	03	04		05		06	07 Adjustments			08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	=	**Total Allowed** (Watts)	≥	Total Designed (Watts)	PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	=	**Total Adjusted** (Watts) *Includes Adjustments		**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)				(See Table F)	(See Table P)				
Conditioned		5,206.9	0		=	5,207	≥	3,394	326	=	3068		COMPLIES
Unconditioned					=		≥			=			
											Controls Compliance (See Table H for Details)		COMPLIES
											Rated Power Reduction Compliance (See Table Q for Details)		

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: SLO HS New Classroom Building	Report Page:	(Page 9 of 9)
Project Address: 1499 San Luis Drive	Date Prepared:	7/31/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Documentation Author Signature:
Jeffrey M. Thoma	
Company: Thoma Electric, Inc	Signature Date: 2026-01-22
Address: 3562 Empleo Street	CEA/ HERS Certification Identification (if applicable): E20823
City/State/Zip: San Luis Obispo CA 93401	Phone: 805-543-3850

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Designer Name:	Responsible Designer Signature:
Jeffrey M. Thoma	
Company: Thoma Electric, Inc.	Date Signed: 2026-01-22
Address: 3562 Empleo St	License: E20823
City/State/Zip: San Luis Obispo CA 93401	Phone: 805-543-3850

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: SLO HS New Classroom Building	Report Page:	(Page 6 of 9)
	Date Prepared:	7/31/2025

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

This table includes all areas indicated in Table I or Table K as using a PAF credit described in 140.6(a)2 / 170.2(e)2B.

Conditioned Spaces

01	02								03	04	05	06	07
Area Description	PAF per 140.6(a)2 / 170.2(e)2B[1] (*Can be used in conjunction with other PAF'S)								Luminaires Controlled for PAF Credit				Additional Control Credit Allowance (Watts)
	1	2A	2B	3A*	3B*	4*	5*	6*	7*	Luminaire Name or Item Tag	Luminaire Design Watts	Number of Luminaires	Lighting Controlled (Watts)	
				Pick up to one		Pick up to one		Pick up to one[2]						
CLASSROOMS	☒	☐	☐	☐	☐	☐	☐	☐	☐	A1	31	13	403	40.3
CLASSROOMS	☒	☐	☐	☐	☐	☐	☐	☐	☐	A1E	31	2	62	6.2
CLASSROOMS	☒	☐	☐	☐	☐	☐	☐	☐	☐	A1	31	13	403	40.3
CLASSROOMS	☒	☐	☐	☐	☐	☐	☐	☐	☐	A1E	31	2	62	6.2
CLASSROOMS	☒	☐	☐	☐	☐	☐	☐	☐	☐	A1	31	13	403	40.3
CLASSROOMS	☒	☐	☐	☐	☐	☐	☐	☐	☐	A1E	31	2	62	6.2
CLASSROOMS	☒	☐	☐	☐	☐	☐	☐	☐	☐	A1	31	13	403	40.3
CLASSROOMS	☒	☐	☐	☐	☐	☐	☐	☐	☐	A1E	31	2	62	6.2
CLASSROOMS	☒	☐	☐	☐	☐	☐	☐	☐	☐	A1	31	13	403	40.3
CLASSROOMS	☒	☐	☐	☐	☐	☐	☐	☐	☐	A1E	31	2	62	6.2
CLASSROOMS	☒	☐	☐	☐	☐	☐	☐	☐	☐	A1	31	13	403	40.3
CLASSROOMS	☒	☐	☐	☐	☐	☐	☐	☐	☐	A1E	31	2	62	6.2
CLASSROOMS	☒	☐	☐	☐	☐	☐	☐	☐	☐	A1	31	13	403	40.3
CLASSROOMS	☒	☐	☐	☐	☐	☐	☐	☐	☐	A1E	31	2	62	6.2
CLASSROOMS	☒	☐	☐	☐	☐	☐	☐	☐	☐	A1	31	13	403	40.3
CLASSROOMS	☒	☐	☐	☐	☐	☐	☐	☐	☐	A1E	31	2	62	6.2
	08								09					
☐	All spaces applying PAF 5, 6 or 7 include a daylight design meeting requirements in 140.3(d). See Table S.								**Total Power Adjustment (Watts) CONDITIONED SPACES:**				0.04	

[1] FOOTNOTES: PAFs outlined in Table 140.6-A /170.2-L include 1) Daylight continuous dimming plus OFF; 2A) Occupant sensors in offices with one sensor per <= 125 ft²; 2B) Occupant sensors in offices with one sensor per 126 - 250 ft²; 3A) Institutional tuning, non-daylit areas and 3B) Institutional tuning, daylit areas; 4) Demand response; 5) Clerestory fenestration; 6) Horizontal slats; 7) Light shelves.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: SLO HS New Classroom Building	Report Page:	(Page 3 of 9)
	Date Prepared:	7/31/2025

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
A1	A1	No	NA	31	Mfr. Spec	91	No	2,821	☐	☐
A1E	A1E	No	NA	31	Mfr. Spec	14	No	434	☐	☐
B1	B1	No	NA	25	Mfr. Spec	3	No	75	☐	☐
B1E	B1E	No	NA	25	Mfr. Spec	2	No	50	☐	☐
X1E	X1E	No	NA	2	Mfr. Spec	7	No	14	☐	☐
						Total Designed Watts: CONDITIONED SPACES		3,394		

[1] FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

[2] Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
		Pass	Fail
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	☐	☐

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125456 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026

SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT
SAN LUIS OBISPO HIGH SCHOOL
1499 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93
NEW CLASSROOM BUILDING
& RELOCATION OF MODULAR RESTROOM

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELLAGA STREET SANTA BARBARA CA 93101
TELEPHONE (805) 963-1726 FAX (805) 963-2951
JOE S. WILCOX, AIA
PRINCIPAL-IN-CHARGE
MAT GRADIAS, AIA
PROJECT MANAGER

All ideas, design arrangements and plans indicated or represented by drawing are owned by and are the property of Kruger-Bensen-Ziemer, Architects, and were created, evolved and developed for use on, and in connection with, the specified projects. None of such ideas, designements or plans shall be used by or disclosed to any person, corporation for any purpose whatsoever without the written permission of Kruger-Bensen-Ziemer.

ARCHITECT'S STAMP & SIGNATURE
LICENSED ARCHITECT JOE S. WILCOX No. 9808 Ren. 8-31-25 STATE OF CALIFORNIA

ENGINEER'S STAMP & SIGNATURE
REGISTERED PROFESSIONAL ENGINEER JEFFREY M. THOMA NO. 20823 ELECTRICAL STATE OF CALIFORNIA
EXP 09/30/26 REF. 24-8089

CONSULTANT INFORMATION

REVISION	DESCRIPTION	DATE	BY
5			
4			
3			
2			
1			

DRAWN JC/RP/TH
CHECKED JT
DATE 08/01/26
JOB. NO. 24010

SHEET TITLE: INTERIOR LTG. TITLE 24 COMPLIANCE FORMS

SHEET E-601

Thoma ENGINEERING
THOMA ELECTRIC, INC.
3562 EMPLEO ST.
SAN LUIS OBISPO, CA 93401
PHONE: (805) 543-3850
FAX: (805) 543-3829

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STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: SLO HS New Classroom Building	**Report Page:**	**(Page 7 of 7)**
Project Address: 1499 San Luis Drive	**Date Prepared:**	11/3/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Jeffrey M. Thoma	Documentation Author Signature:
Company: Thoma Electric, Inc	Signature Date: 2026-01-22
Address: 3562 Empleo Street	CEA/ HERS Certification Identification (if applicable): E20823
City/State/Zip: San Luis Obispo CA 93401	Phone: 805-543-3850

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Designer Name: Jeffrey M. Thoma	Responsible Designer Signature:
Company: Thoma Electric, Inc.	Date Signed: 2026-01-22
Address: 3562 Empleo St	License: E20823
City/State/Zip: San Luis Obispo CA 93401	Phone: 805-543-3850

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: SLO HS New Classroom Building	**Report Page:**	**(Page 4 of 7)**
	Date Prepared:	11/3/2025

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector	
				Pass	Fail

[1] *FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.*
[2] *Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.*
[3] *Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.*

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: SLO HS New Classroom Building	**Report Page:**	**(Page 5 of 7)**
	Date Prepared:	11/3/2025

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.
Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

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

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)
	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
SLO HS NEW CLASSROOM BLDG EXTERIOR	3712	0.021	78	974	0.2	194.8	273
					Initial Wattage Allowance for Entire Site (Watts):		250
					Instances of Initial Wattage Allowance (LZ 0 only)[1]		
					Total General Hardscape Allowance (Watts):		523

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: SLO HS New Classroom Building	**Report Page:**	**(Page 6 of 7)**
	Date Prepared:	11/3/2025

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: SLO HS New Classroom Building	**Report Page:**	**(Page 1 of 7)**
Project Address: 1499 San Luis Drive	**Date Prepared:**	11/3/2025

This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.

A. GENERAL INFORMATION

01	Project Location (city)	San Luis Obispo	04	Total Illuminated Hardscape Area (ft²)	3712
02	Climate Zone	5			
03	Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐	LZ-0: Very Low - Undeveloped Parkland	☐ LZ-2: Moderate - Urban Clusters	☐	LZ-4: High - Must be reviewed by CA Energy Commission for Approval	
☐	LZ-1: Low - Rural Areas	☒ LZ-3: Moderately High - Urban Areas			
05	Occupancy Types within Project				

● Classroom ● Support Areas ● All Other Occupancies

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.

My Project Consists of:

01	02	
☒ New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6	
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	○ Yes ○ No
03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%		

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

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

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: SLO HS New Classroom Building	**Report Page:**	**(Page 2 of 7)**
	Date Prepared:	11/3/2025

C. COMPLIANCE RESULTS

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

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv											Compliance Results			
01		02		03		04		05	OR	06		07		08	09
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
523	+	---	+	---	+	---	+	---	OR	---	=	523	≥	414	COMPLIES
										Shielding Compliance (See Table G for Details)					N/A
										Controls Compliance (See Table H for Details)					Not applicable

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: SLO HS New Classroom Building	**Report Page:**	**(Page 3 of 7)**
	Date Prepared:	11/3/2025

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1,2]	How is Wattage determined	Total Number Luminaires[2]	Luminaire Status[3]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)1[4]	Field Inspector	
										Pass	Fail
S1E	S1E	☐ Linear	23	Mfr. Spec	18	New	☐	414	NA: < 6200 lumens	☐	☐
							Total Design Watts:	414			

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

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)*
[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*
[3] *Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.*
[4] *Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)*

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

Thoma ENGINEERING
THOMA ELECTRIC, INC.
3562 EMPLEO ST.
SAN LUIS OBISPO, CA 93401
PHONE: (805) 543-3850
FAX: (805) 543-3829

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125456 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026

SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT
SAN LUIS OBISPO HIGH SCHOOL
1499 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93
NEW CLASSROOM BUILDING
RELOCATION OF MODULAR RESTROOM

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELLAGA STREET SANTA BARBARA CA 93101
TELEPHONE (805) 963-1726 FAX (805) 963-2951
JOE S. WILCOX, AIA
PRINCIPAL-IN-CHARGE
MAT GRADIAS, AIA
PROJECT MANAGER

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ARCHITECT'S STAMP & SIGNATURE
LICENSED ARCHITECT JOE S. WILCOX No. 9808 Ren. 12/25 STATE OF CALIFORNIA

ENGINEER'S STAMP & SIGNATURE
REGISTERED PROFESSIONAL ENGINEER JEFFREY M. THOMA NO. 20823 ELECTRICAL STATE OF CALIFORNIA
EXP. 09/30/26 REF. 24-8089

CONSULTANT INFORMATION

REVISION	DESCRIPTION	DATE	BY
5			
4			
3			
2			
1			

DRAWN JC/RP/TH
CHECKED JT
DATE 05/01/26
JOB. NO. 24010

SHEET TITLE EXTERIOR LTG. TITLE 24 COMPLIANCE FORMS

SHEET E-602

K:\ENG\2024\24-8089\24-8089_E-601_E-604_T24.dwg - Roger - Jan 13, 2026 - 8:18am

STATE OF CALIFORNIA
Electrical Power Distribution CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name:	**Report Page:** **(Page 4 of 4)**
Project Address:	**Date Prepared:** 7/17/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Documentation Author Signature:
Jeffrey M. Thoma	
Company: Thoma Electric, Inc	Signature Date:
Address: 3562 Empleo Street	CEA/ HERS Certification Identification (if applicable): C20823
City/State/Zip: San Luis Obispo CA 93401	Phone: 805-543-3850

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Designer Name:	Responsible Designer Signature:
Company:	Date Signed: 2025-07-17
Address:	License:
City/State/Zip:	Phone:

STATE OF CALIFORNIA
Electrical Power Distribution CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2 (b)4Bvii	
Project Name:	**Report Page:** **(Page 1 of 4)**
Project Address:	**Date Prepared:** 7/17/2025

A. GENERAL INFORMATION

01	Project Location (city)		02	Climate Zone	1
			03	Occupancy Types Within Project:	All Other OccupanciesClassroomSupport Areas

B. PROJECT SCOPE

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

01	02	03	04	05	06	07
Electrical Service Designation/ Description	Scope of Work[1]	Rating[2] (kVA)	Utility Provided Metering System Exception to 130.5(a)/ 160.6(a)[3]	System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
Main	New electrical service equipment and meter	50	☐	☐	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/ 160.3, 130.1/ 160.5, and 130.3/ 160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	☐

[1] FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.
[2] If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.
[3] Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

STATE OF CALIFORNIA
Electrical Power Distribution CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name:	**Report Page:** **(Page 2 of 4)**
	Date Prepared: 7/17/2025

C. COMPLIANCE RESULTS

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

01		02		03		04	05	06
Service Electrical Metering 130.5(a)/ 160.6(a) (See Table F)	AND	Separation for Monitoring 130.5(b)/ 160.6(b) (See Table G)	AND	Voltage Drop 130.5(c)/ 160.6(c) (See Table H)	AND	Controlled Receptacles 130.5(d)/ 160.6(d) (See Table I)	Electric Ready 160.9 (See Table J)	**Compliance Results**
Yes	AND		AND	Yes	AND			COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

F. SERVICE ELECTRICAL METERING

This table includes new or replacement electrical service systems OR equipment to demonstrate compliance with 130.5(a) / 160.6(a). For multifamily occupancies, submetered systems that provide power to common use areas must meet the following metering requirements. Submetered systems providing power to dwelling units do not.

01	02	03				04	05	
		Required Metering Capabilities per Table 130.5-A					Field Inspector	
Electrical Service Designation/ Description	Rating[1] (kVA)	Instantaneous Demand (kW)	Historical Peak Demand (kW)	Tracking kWh for user-defined period	kWh per rate period	Location of Requirements in Construction Documents	Pass	Fail
Main	50	☒	☐	☒	☐		☐	☐

[1] FOOTNOTES: If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/ 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2Piii/ 180.2(b)4Bviic.

STATE OF CALIFORNIA
Electrical Power Distribution CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name:	**Report Page:** **(Page 3 of 4)**
	Date Prepared: 7/17/2025

H. VOLTAGE DROP

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

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

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

J. ELECTRIC READY BUILDINGS

This section does not apply to this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-ELC-E - Must be submitted for all buildings

thoma ENGINEERING
THOMA ELECTRIC, INC.
3562 EMPLEO ST.
SAN LUIS OBISPO, CA 93401
PHONE: (805) 543-3850
FAX: (805) 543-3829

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125456 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026

SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT
SAN LUIS OBISPO HIGH SCHOOL
1499 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93
NEW CLASSROOM BUILDING
& RELOCATION OF MODULAR RESTROOM

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELLAGA STREET SANTA BARBARA CA 93101
TELEPHONE (805) 963-1726 FAX (805) 963-2951
JOE S. WILCOX, AIA
PRINCIPAL-IN-CHARGE
MAT GRADIAS, AIA
PROJECT MANAGER

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ARCHITECT'S STAMP & SIGNATURE
LICENSED ARCHITECT JOE S. WILCOX No. C-9808 Ren. 2025 STATE OF CALIFORNIA

ENGINEER'S STAMP & SIGNATURE
REGISTERED PROFESSIONAL ENGINEER JEFFREY M. THOMA NO. 20823 ELECTRICAL STATE OF CALIFORNIA
EXP. 09/30/26 REF. 24-8089

CONSULTANT INFORMATION

REVISION	DESCRIPTION	DATE	BY
5			
4			
3			
2			
1			

DRAWN JC/RP/TH
CHECKED JT
DATE 06/01/26
JOB. NO. 24010

SHEET TITLE POWER DISTRIBUTION TITLE 24 COMPLIANCE FORMS

SHEET
E-603

K:\ENG\2024\24-8089\24-8089_E-601_E-604_T24.dwg — Roger — Jan 13, 2026 — 8:18am

Hydrant Flow Test Report

Test Date 06/23/2025 **Test Time** 3:00pm

Location
San Luis Obispo High School
1499 San Luis Drive
San Luis Obispo, CA 93401

Tested by
Gary Armstrong & Jude Chon
Alpha Fire Unlimited
650 Sweeney Ln
San Luis Obispo, CA 93401

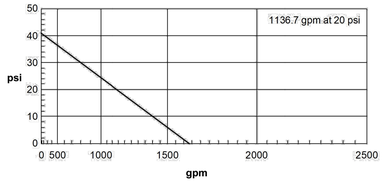
Notes
Read at hydrant by building A1/A2
Flowed at hydrant by building D

Read Hydrant
41 psi **static pressure**
24 psi **residual pressure**
0 ft **hydrant elevation**

Flow Hydrant(s)

Outlet	Elev	Size	C	Pitot Pressure	Flow
#1	0	3.05	1.38	7	1014 gpm

Flow Graph



NOTES

Overhead Fire Sprinkler System Notes

1. 2022 NFPA 13 (as amended by the state of California) Sec. 10.10.2.1.1 Underground mains and lead-in connections to system risers shall be completely flushed before connection is made to overhead sprinkler piping. Where underground piping is flushed and not immediately connected to the overhead piping, the riser shall be capped or otherwise protected to prevent debris, dirt, or animals from entering into the underground piping (Witnessed by the Project Inspector).
2. Provide flow test data and indicate the locations and height elevations of the test and residual flow hydrants. Data must be no more than 12 months old and provide information about available water at the site. Information may come from the local water purveyor, Utilities Company, or local fire department. This information shall be accompanied with a wet signature and signed date of test.
3. The responsible person shall affix their seal and stamp & sign all submittal drawings.
4. 2022 NFPA 13 (as amended by the state of California) Section 10.10.2.2.: All piping and attachment appurtenances subjected to system working pressure shall be hydrostatically tested at 200 psi, or 50 psi in excess of the system working pressure, whichever is greater, and shall maintain that pressure without loss for 2 hours. (Witnessed by the Project Inspector).
5. 2022 NFPA 13 (as amended by the state of California) Sec. 6.2.9: Provide spare sprinkler head cabinet, sprinkler wrench, and no fewer than 6 spare heads matching the types and temperature ratings at each system riser.
6. 2022 NFPA 13 (as amended by the state of California) Sec. 9.3.6.3: The end sprinkler on each branch line shall be restrained against excessive vertical and lateral movement.
7. 2022 CBC Sec. 903.4.2 and NFPA 13 8.17.4.2.1-8.17.4.2.3: The Inspector's Test Valve piping shall be no less than 1 inch nominal diameter, with a smooth bore, corrosion-resistant orifice installed within the system equal to the size of the smallest sprinkler orifice. The discharge shall be to hub drain or to the exterior of the building.
8. 2013 NFPA 25, California Edition, Sec.5.3.3: The sprinkler flow switch shall be tested to confirm that when the Inspector's Test Valve is activated an alarm will sound no more than 90 seconds after initial flow. (Witnessed by the Project Inspector).
9. 2022 CBC Sec.904.4.3: Connections to protected premises and supervising station fire alarm systems shall be tested to verify proper identification and transmission of alarms from automatic fire extinguishing systems.
10. 2022 NFPA 13 (as amended by the state of California) Sec. 8.17.2.4.7: Fire Department Connection signage shall be provided stating "Automatic Fire Sprinklers".
11. 2022 CBC Sec. 903.4: All valves controlling the water supply for automatic sprinkler systems and water flow switches on all sprinkler systems shall be supervised.
12. 2022 NFPA 13 (as amended by the state of California) Sec. 25.5: A permanent hydraulic calculations design data placard shall be attached to each riser.
13. 2022 NFPA 13 (as amended by the state of California) Sec. 6.8.2 and 2019 CBC Sec.903.4.2: Water Flow switchs shall be connected to a 24 VDC 10 inch outside alarm bell, via the FACP. Approved identification signs shall be provided to outside alarm bell "SPRINKLER FIRE ALARM - WHEN BELL RINGS CALL 911 / FIRE DEPARTMENT."
14. CCR Title 19 Chapter 5 Article 6 Section 906(a): A label of the self-adhesive type shall be placed on the fire department connection or on the riser for fire sprinkler system with the date of service and/or date of installation was performed and licence number of person performing service work.
15. 2022 NFPA 13 (as amended by the state of California) Figure 25.1: Sprinkler contractor shall complete and sign Contractor's Material & Test Certificate for the Aboveground Piping. This form shall be signed by the Project Inspector who will file in project records.

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE 2022 EDITION OF NFPA 13, 2022 CBC AND 2022 CFC. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS, THE CONSTRUCTION DOCUMENTS SHALL GOVERN BUT THE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR REGULATION.
2. IN THE EVENT OF CONFLICT OR INCOSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS AND/OR SPECIFICATIONS OR WITH CODE REQUIREMENTS, THE NOTE, SPECIFICATION OR CODE WHICH PRESCRIBES AND ESTABLISHES THE MORE COMPLETE JOB OR THE HIGHER STANDARD SHALL PREVAIL.
3. OMISSIONS FROM THE DRAWINGS OR SPECIFICATIONS OR THE MISDESCRIPTION OF DETAILS OF WORK WHICH ARE MANIFESTLY NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS AND SPECIFICATIONS, OR WHICH ARE CUSTOMARILY PERFORMED, SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMITTED OR MISDESCRIBED DETAILS OF THE WORK BUT THEY SHALL BE PERFORMED AS IF FULLY AND CORRECTLY SET FORTH AND DESCRIBED IN THE CONTRACT DRAWINGS AND SPECIFICATIONS.
4. THE CONTRACTOR SHALL CHECK ALL DRAWINGS FURNISHED TO HIM IMMEDIATELY UPON THEIR RECEIPT AND SHALL PROMPTLY NOTIFY THE OWNER OF ANY DISCREPANCIES. FIGURES MARKED ON DRAWINGS SHALL IN GENERAL BE FOLLOWED IN PREFERENCE TO SCALE MEASUREMENTS. LARGE SCALE DRAWINGS SHALL IN GENERAL GOVERN SMALL SCALE DRAWINGS. THE CONTRACTOR SHALL COMPARE ALL DRAWINGS AND VERIFY THE FIGURES BEFORE LAYING OUT THE WORK AND WILL BE RESPONSIBLE FOR ANY ERRORS WHICH MIGHT HAVE BEEN AVOIDED THEREBY.
5. ALL MATERIAL AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE UNDERWRITERS' LABEL (UL) AND SHALL BE INSTALLED IN THE MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.
6. THE CONTRACTOR SHALL NOT BORE, NOTCH OR IN ANY WAY CUT INTO ANY STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT OR STRUCTURAL ENGINEER.
7. FOR PURPOSES OF CLEARNESS AND LEGIBILITY, THE CONTRACT DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC. THE SIZE AND LOCATION OF EQUIPMENT IS SHOWN TO SCALE WHEREVER POSSIBLE. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DATA INFORMATION AS INDICATED ON THE DRAWINGS AND THE SPECIFICATION SECTIONS WHERE THE AUTOMATIC FIRE SPRINKLER WORK INTERFACES WITH OTHER TRADES.
8. THE CONTRACTOR SHALL MAINTAIN AS-BUILT DRAWINGS TO REFLECT ALL CHANGES MADE DURING CONSTRUCTION AND ANY DEVIATIONS FROM THE CONTRACT DRAWINGS. THIS INCLUDES ANY ADDITION, DELETION OR RELOCATION OF SPRINKLERS OR PIPING SHOWN ON CONTRACT DRAWINGS.
9. SCOPE OF WORK IS TO PROVIDE AUTOMATIC FIRE SPRINKLERS TO THE NEW MULTI STORY BUILDING.
10. POINT OF CONNECTION TO BE 0'-6" ABOVE FINISH FLOOR INSIDE FROM THE FACE OF BUILDING WALL.
11. ALL CONTROL VALVES AND DRAIN VALVES SHALL HAVE A SIGN AFFIXED FOR IDENTIFICATION.
12. ALL MECHANICALLY JOINED PIPING SHALL BE STEEL SCHEDULE 10 (ASTM A 135, TYPE E, GRADE A) WITH ROLL GROOVED ENDS AND MECHANICAL FITTINGS. COUPLINGS SHALL BE RIGID TYPE, UNLESS OTHERWISE NOTED. PIPE YIELD STRESS = 30 ksi. PIPE TENSILE STRESS =48 ksi
13. ALL THREADED PIPING SHALL BE STEEL SCHEDULE 40 (ASTM A 135, TYPE E, GRADE A) WITH CUT THREADS AND CLASS 125 DUCTILE IRON FITTINGS. PIPE YIELD STRESS = 30 ksi. PIPE TENSILE STRESS =48 ksi
14. THE FIRE SPRINKLER SYSTEM SHALL BE MONITORED BY AN APPROVED LISTED CENTRAL MONITORING STATION.
15. ALL DEVICES AND COMPONENTS TO BE EITHER LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY FOR FIRE PROTECTION SERVICE OR APPROVED BY THE AUTHORITY HAVING JURISDICTION.
16. A HYDROSTATIC TEST SHALL BE PERFORMED FOR ALL SYSTEM PIPING AT NOT LESS THEN 200 PSI FOR TWO HOURS, OR 50 PSI ABOVE STATIC PRESSURE IN EXCESS OF 150 PSI FOR TWO HOURS, AND WITNESSED BY A LOCAL FIRE INSPECTOR.
17. FIRE SPRINKLER FLOW ALARM BELL WILL BE INSTALLED ON THE ADDRESS SIDE OF THE BUILDING AND WILL BE EQUIPPED WITH THE PROPER SIGNAGE IDENTIFYING THE ALARM BELL.
18. DESIGN AREA REDUCTIONS FOR THE USE OF QUICK RESPONSE SPRINKLERS ARE PERMITTED IN LIGHT HAZARD AREAS ONLY.

AREAS OF ORDINARY HAZARD I & II

KITCHENS, MECHANICAL ROOMS, JANITOR ROOMS, ELECTRICAL ROOMS, AND OTHER SIMILAR ROOM TYPES ARE ORDINARY 1 HAZARD. DENSITY 0.15 GPM/SQ. FT. MAX SPACING OF 130 SQFT.

STORAGE AREAS, SCIENCE LABS. SHALL BE ORDINARY II HAZARD. DENSITY 0.20 GPM/SQFT. MAXIMUM HEAD SPACING NOT TO EXCEED 130 SQFT.

AREAS OF LIGHT HAZARD

ALL OFFICE AREAS UNLESS DENOTED OTHERWISE, CORRIDORS, BATHROOMS, CLASSROOMS, AND SIMILAR AREAS ARE LIGHT HAZARD. DENSITY 0.10 GPM/FT². MAXIMUM HEAD SPACING SHALL NOT EXCEED 15'X15'.

CONCEALED SPACE ABOVE CEILING IS LIGHT HAZARD, OBSTRUCTED CONSTRUCTION DENSITY 0.10 GPM/FT². MAXIMUM HEAD SPACING NOT TO EXCEED 130 FT².

PER NFPA 13 (2016) §11.2.3.2.4 REMOTE AREAS SHALL BE INCREASED BY 30% WHEN ROOF/CEILING SLOPES EXCEED PITCH OF 2 IN 12.

HOSE ALLOWANCE FOR LIGHT HAZARD SHALL BE 100 GPMS
HOSE ALLOWANCE FOR ORDINARY HAZARD SHALL BE 250 GPMS

Add the following notes to the AFSS item:
•Installation of sprinkler system shall not be started until drawings, specifications, calculations, etc. have been approved by DSA.
•Educational Occupancy AFSS Design Criteria -
Light Hazard: Classrooms; offices; *auditoriums; library reading areas without high stacks
Ordinary Hazard Group 1: Kitchens; Multi-purpose rooms; large storage areas; stages (as defined in 2016 CBC 410.2)
Ordinary Hazard Group 2: Science labs; vocational shops; stages 1,000 sq. ft in area or >50 ft in height, library reading areas with high stacks.
NFPA 13, A.5.1, A.5.3.1, A.5.3.2 *if also functions as Multi-purpose room, use Ordinary Hazard Group 1.

NOTE:

THE INSTALLING FIRE SPRINKLER CONTRACTOR SHALL,
1. COORDINATE THE FIRE SPRINKLER INSTALLATION WITH ALL OTHER TRADES.
2. VERIFY FIELD CONDITIONS WITH REGARDS TO OBSTRUCTIONS, E.I. STRUCTURAL, ELECTRICAL AND MECHANICAL, TO SPRINKLER SPRAY PATTERNS AND ADD ADDITIONAL SPRINKLERS AS REQUIRED, AT HIS EXPENSE, TO PROVIDE COMPLETE SPRINKLER COVERAGE PER NFPA 13, 2016.

SYMBOLS & ABBREVIATIONS LEGEND

SYM.	DESCRIPTION
	RIGID GROOVED COUPLING
	GROOVED CAP
	GROOVED ELBOW
	FLEXIBLE GROOVED COUPLING
	SCREWED PLUG
	SYSTEM RISER
	OFFSET SHOWN FOR HYDRAULIC PURPOSES
	HYDRAULIC CALCULATION NODE POINT
	HANGER DESIGNATION
	HANGER & BRANCHLINE RESTRAINT
	4-WAY EARTHQUAKE BRACE
	2-WAY EARTHQUAKE BRACE
B-C	BOTTOM OF BEAM TO CENTERLINE OF PIPE
J-C	BOTTOM OF JOIST (PURLIN) TO CENTERLINE OF PIPE
S-C	BOTTOM OF SHEATHING TO CENTERLINE OF PIPE
AFF	ABOVE FINISH FLOOR
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE OTHERWISE
CL	CENTERLINE OF PIPE ABOVE FINISH FLOOR

SHEET INDEX

SHEET NUMBER	DESCRIPTION
FP-0.00	FIRE SPRINKLER COVER SHEET
FP-0.01	FIRE SPRINKLER SITE PLAN
FP-0.02	FIRE SPRINKLER DETAILS
FP-1.00	FIRE SPRINKLER PIPING PLAN
FP-2.00	FIRE SPRINKLER RCP
FP-3.00	FIRE SPRINKLER SEISMIC PLAN
FP-4.00	FIRE SPRINKLER SECTIONS

OSHPD

Latitude, Longitude: 35.28422114, -120.65095687

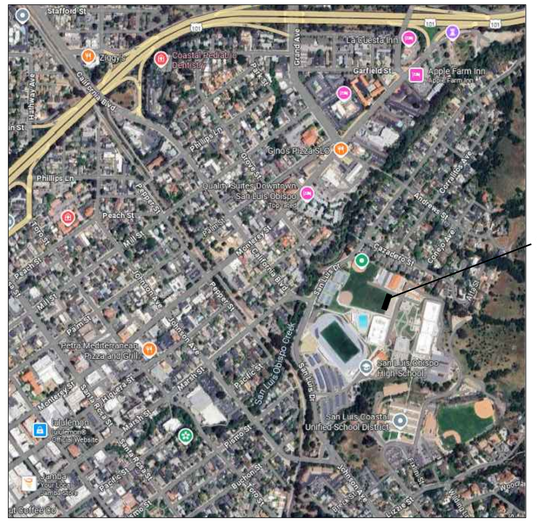


Date	7/22/2025, 6:43:32 AM
Design Code Reference Document	ASCE7-22
Risk Category	III
Site Class	C

Type	Value	Description (Data)
S_S	1.22	The MCE_R spectral response acceleration at 0.2 seconds for Site Class BC, in units of g.
S_1	0.4	The MCE_R spectral response acceleration at 1 second for Site Class BC, in units of g.
S_{MS}	1.29	$S_{MS} = 1.5 \times S_{DS}$, the Risk-Targeted Maximum Considered Earthquake (MCE_R) spectral response acceleration for short periods (of the two-period spectrum) and the user-specified Site Class.
S_{M1}	0.57	$S_{M1} = 1.5 \times S_{D1}$, the MCE_R spectral response acceleration for 1 second (of the two-period spectrum) and the user-specified Site Class.
S_{DS}	0.86	The design spectral response acceleration for short periods (of the two-period spectrum) and the user-specified Site Class, in units of g.
S_{D1}	0.38	The design spectral response acceleration for 1 second (of the two-period spectrum) and the user-specified Site Class, in units of g

Table 18.5.9.3 Seismic Coefficient Table

S_S	C_S
0.33 or less	0.24
0.4	0.28
0.5	0.33
0.6	0.37
0.7	0.41
0.8	0.45
0.9	0.51
1	0.56
1.1	0.62
1.2	0.68
1.3	0.73
1.4	0.79
1.6	0.90
1.7	0.96
1.8	1.01
1.9	1.07
2	1.12
2.1	1.18
2.2	1.24
2.3	1.29



VICINITY MAP

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APP: 03-125456 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026

SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT
SAN LUIS OBISPO HIGH SCHOOL
1499 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401

NEW CLASSROOM BUILDING & RELOCATION OF MODULAR RESTROOM

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
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TELEPHONE (805) 963-1726 FAX (805) 963-2951

JOE S. WILCOX AIA
PRINCIPAL-IN-CHARGE

PATRICK B. PANLAQUI
PROJECT MANAGER

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LICENSED ARCHITECT JOE S. WILCOX No. 19608 Ren. 2/27 STATE OF CALIFORNIA

ENGINEER'S STAMP & SIGNATURE
REGISTERED PROFESSIONAL ENGINEER BRENDON NORDSTROM 15348 Exp 6/30/27 MECHANICAL STATE OF CALIFORNIA

CONSULTANT INFORMATION

REVISION	DESCRIPTION	DATE	BY
5			
4			
3			
2			
1			

DRAWN KG
CHECKED RM
DATE 06/01/26
JOB. NO.

SHEET TITLE: FIRE SPRINKLER COVER Sheet

SHEET: FP–0.00

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FIRE PROTECTION SITE PLAN

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

8 4 0 8 16

NORTH

NOTE:

ALL UNDERGROUND PIPING IS SHOWN ON THIS PLAN FOR HYDRAULIC REFERENCE ONLY. SEE CIVIL PLANS FOR THE INSTALLATION OF ALL UNDERGROUND PIPING BEYOND 5' FROM FROM BUILDING LINE.

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APP: 03-125456 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026

SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT
SAN LUIS OBISPO HIGH SCHOOL
1499 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401

NEW CLASSROOM BUILDING &RELOCATION OF MODULAR RESTROOM

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ENGINEER'S STAMP & SIGNATURE

REGISTERED PROFESSIONAL ENGINEER HAYDEN ROGERS 51334 EXP 6/30/27 MECHANICAL STATE OF CALIFORNIA

CONSULTANT INFORMATION

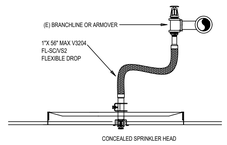
	REVISION DESCRIPTION	DATE	BY
5			
4			
3			
2			
1			

DRAWN KG
CHECKED RM
DATE 06/01/26
JOB. NO.

SHEET TITLE: FIRE SPRINKLER HYDRAULIC SITE PLAN

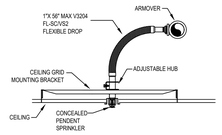
SHEET: FP-0.01

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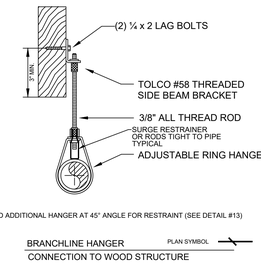
CENTER-OF-TILE, FLEX DROP DETAIL | NTS | 19

ANY SUBSTITUTION OF "FLEXIBLE" TYPE PIPING IN LIEU OF "RIGID" PIPE OR ANY CHANGES TO SIZE, MANUFACTURER OR LENGTHS OF "FLEXIBLE" TYPE PIPING WILL REQUIRED RESUBMITTAL OF PIPING PLANS, PRODUCT DATA SHEETS AND HYDRAULIC CALCULATIONS TO DSA FOR REVIEW AND APPROVAL.



CENTER-OF-TILE, FLEX DROP DETAIL N.T.S. | NTS | 15

NOT USED | NTS | 11

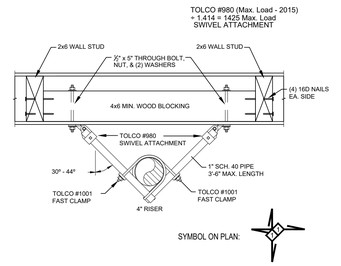


ADD ADDITIONAL HANGER AT 45° ANGLE FOR RESTRAINT (SEE DETAIL #13)

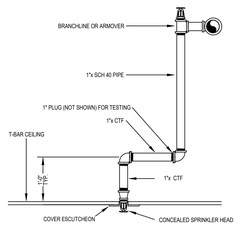
BRANCHLINE HANGER — PLAN SYMBOL

CONNECTION TO WOOD STRUCTURE

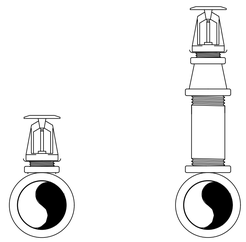
HANGER DETAIL TO WOOD | NTS | 7



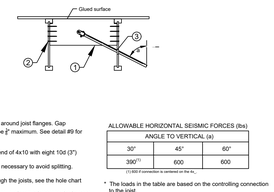
4-WAY RISER BRACE DETAIL | NTS | 3



TYPICAL DROP | NTS | 18



UPRIGHT DETAIL | NTS | 14



1. 4x10 with notches cut to fit around joist flanges. Gap between 4x10 and joist to be ¼" maximum. See detail #9 for fasteners etc.
2. Nail through joist webs to end of 4x10 with eight 10d (3") common nails, each side. Stagger if necessary to avoid splitting.
3. For pipes which pass through the joists, see the hole chart

* For loads parallel to the joists, make attachment to the hanger block to the upper half of the block
* Glue surfaces with approved elastomeric floor adhesive. Follow manufacturer's recommendations. Glued surfaces must be clean and dust free.

ALLOWABLE HORIZONTAL SEISMIC FORCES (lbs)

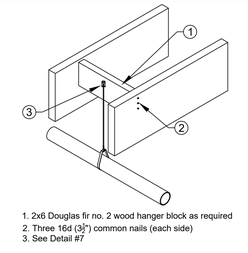
ANGLE TO VERTICAL (a)		
30°	45°	60°
390[1]	600	600

[1] 0.500 if connection is centered on the 4_{10}

* The loads in the table are based on the controlling connection to the joist.
* The capacity of the brace fastener to the wood block may limit the capacity of the detail #5 & #9
* The forces include a 1.33 duration factor adjustment.

FOR FORCES PARALLEL OR PERPENDICULAR TO I-JOIST JOISTS

ALTERNATE SEISMIC ATTACHMENT | NTS | 10

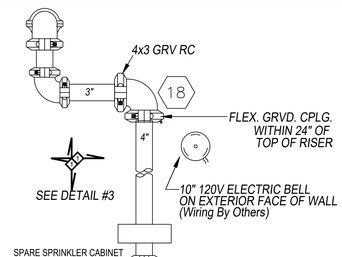


1. 2x6 Douglas fir no. 2 wood hanger block as required
2. Three 16d (3½") common nails (each side)
3. See Detail #7

Center the sprinkler pipe support (parallel or perpendicular) between joist

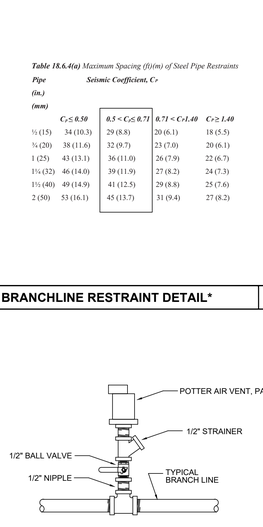
Pipe size at maximum hanger spacing: 4"

TRAPEZE HANGER DETAIL | NTS | 6

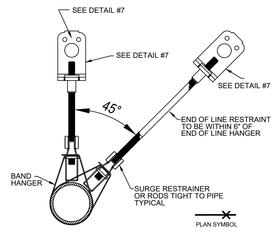


PROVIDE ALL SIGNAGE AS REQUIRED BY NFPA #13-2022 Section 16.9.11

4" SYSTEM RISER DETAIL | NTS | 2



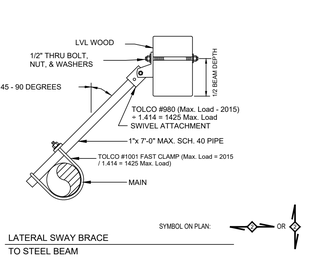
BRANCHLINE RESTRAINT DETAIL* | NTS | 17



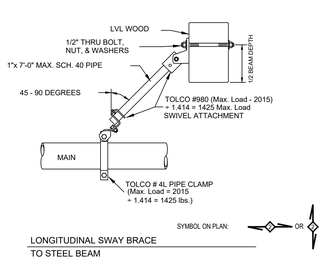
2" Pipe size at maximum hanger spacing

*RESTRAINT ONLY REQUIRED ON BRANCHLINES, ARMOVERS DO NOT REQUIRE RESTRAINT

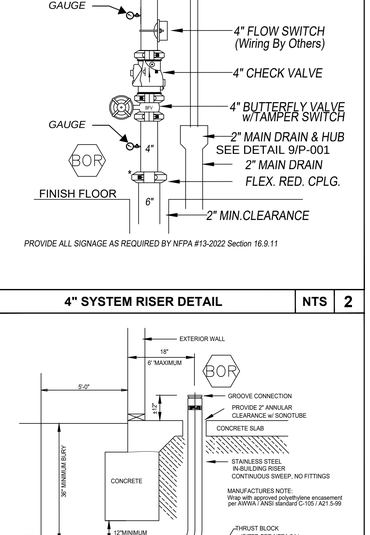
BRANCHLINE RESTRAINT DETAIL* | NTS | 13



SEISMIC BRACING DETAIL | NTS | 9



SEISMIC BRACING DETAIL | NTS | 5



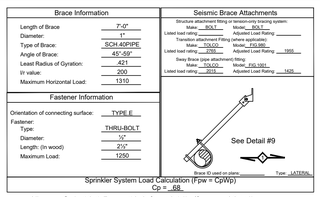
UNDERGROUND STUB UP DETAIL | NTS | 1

AIR VENTING DETAIL | NTS | 16

Table 18.5.9.3 Seismic Coefficient Table

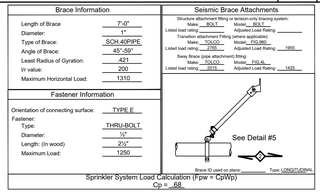
S_s	C_s
0.33 or less	0.24
0.4	0.28
0.5	0.33
0.6	0.37
0.7	0.41
0.8	0.45
0.9	0.51
1	0.56
1.1	0.62
1.2	0.68
1.3	0.73
1.4	0.79
1.6	0.90
1.7	0.96
1.8	1.01
1.9	1.07
2	1.12
2.1	1.18
2.2	1.24
2.3	1.29

COEFFICIENT TABLE | NTS | 12



3" Sch.10 1 Pc. 10.9 ft. 7.94 lb./ft. 86.5 lb.
2" Sch.40 9 Pcs. 54 ft. 5.13 lb./ft. 277 lb.
1" Sch.40 12 Pcs. 23.9 ft. 2.05 lb./ft. 49 lb.
1" Flex 8 Pcs. 16 ft. 1.5 lb./ft. 24 lb.
Total Weight 436 lb.
x Cp = 0.68 297 lb.
ZOI + 15% = Assigned Load = 341 lb.

SEISMIC BRACING CALCULATIONS | NTS | 8



3" Sch.10 4 Pcs. 45.2 ft. 7.94 lb./ft. 358.9 lb.
Total Weight 359 lb.
x Cp = 0.68 244 lb.
ZOI + 15% = Assigned Load = 281 lb.

SEISMIC BRACING CALCULATIONS | NTS | 4

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SAN LUIS COASTAL UNIFIED SCHOOL DISTRICT
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1489 SAN LUIS DRIVE, SAN LUIS OBISPO, CA 93401

NEW CLASSROOM BUILDING
&RELOCATION OF MODULAR RESTROOM

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELLAGA STREET SANTA BARBARA CA 93101
TELEPHONE (805) 963-1726 FAX (805) 963-2951

JOE S. WILCOX AIA
PRINCIPAL-IN-CHARGE

PATRICK B. PANLAGUI
PROJECT MANAGER

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ENGINEER'S STAMP & SIGNATURE
REGISTERED PROFESSIONAL ENGINEER BRANDON RODGERS No. M 33 821 Exp 6/30/27 MECHANICAL STATE OF CALIFORNIA

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REVISION DESCRIPTION	DATE	BY

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SHEET TITLE: FIRE SPRINKLER DETAIL SHEET

SHEET: FP–0.02

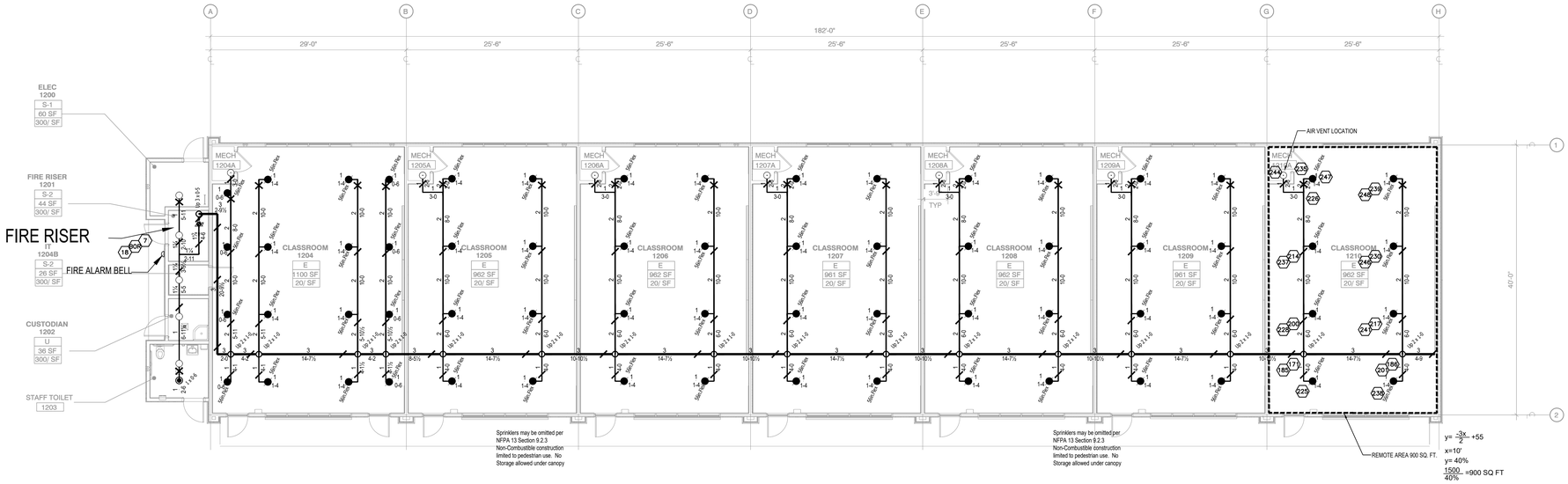
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Project Name: *SLO HS Classroom Number 2510049*
Location: *San Luis Obispo Drive, San Luis Obispo, California*
Drawing Number *SLCUSD SLO HS Classroom Design FP System.dwg*
Date *1/30/2026*
Remote Area Number *1*
Remote Area Location *Classroom*
Occupancy Classification *Light Hazard*
Average Density *0.12 GPM/Ft²*
Area of Application *981.51 Ft²*
Average Coverage per Sprinkler *122.7 Ft²*
Type of Sprinklers Calculated *Victaulic V3802 SS Pendent(5.6K)*
Number of Sprinklers Calculated *8*
Hose Streams *100 GPM*
Flow & Pressure at Base of Riser *119.1 GPM @ 20.6 PSI*
Total Water Required (Including Hose) *219.1 GPM at 31.62 psi (8.38psi / 20.95% Safety Margin)*
Type of System *Wet Pipe*

Water Supply 41 , 24 @ 1014
Water Supply Date 7/22/2025 3:52:39 PM
Water Supply Test Location: Onsite fire line. See Civil Sheets
Water Supply Source: City Water

Contractor: PFC
Address: 1375 East Grande Ave, Arroyo Grande, Ca. 93420
Phone: 661-448-7130
Designer: kgould

Authority having Jurisdiction: DSA



FIRE PROTECTION PIPING PLAN

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

NORTH

SPRINKLER SYMBOL LEGEND

QTY.	SYM.	SIZE	DESCRIPTION
12	○	(1/2",K=5.6)	VICTAULIC QR UPR BRASS 200° (V2704)
1	◉	(1/2",K=5.6)	VICTAULIC QR PENDENT WHITE 155° (V2708)
64	●	(1/2",K=5.6)	GLOBE QR UPR BRASS 200° (GL5608)
64		(1/2",K=5.6)	VICTAULIC FL-SC/VS2 CONCEALED QR PENDENT WHITE 155° (V3204)
141	TOTAL SPRINKLERS FOR ENTIRE PROJECT		

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TELEPHONE (805) 963-1726 FAX (805) 963-2951

JOE S. WILCOX AIA
PRINCIPAL-IN-CHARGE

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PROJECT MANAGER

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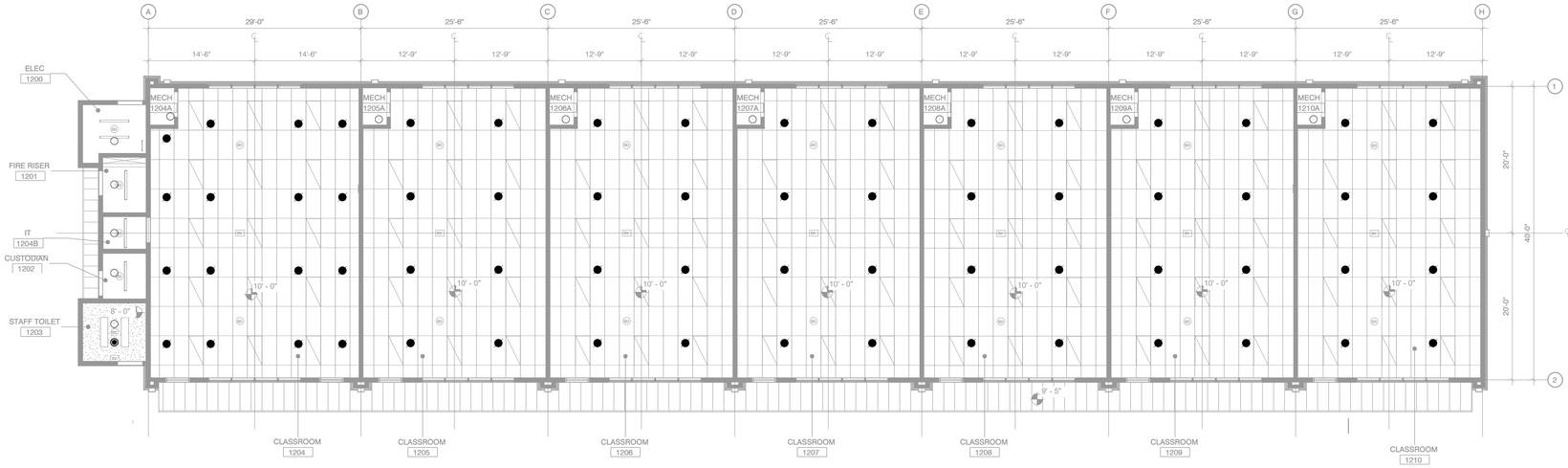
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SHEET TITLE FIRE SPRINKLER PIPING PLAN

SHEET FP–1.00

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FIRE PROTECTION RCP

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

8 4 0 8 16

NORTH

SPRINKLER SYMBOL LEGEND

QTY.	SYM.	SIZE	DESCRIPTION
12	○	(1/2",K=5.6)	VICTAULIC QR UPR BRASS 200° (V2704)
1	◉	(1/2",K=5.6)	VICTAULIC QR PENDENT WHITE 155° (V2708)
64	●	(1/2",K=5.6)	GLOBE QR UPR BRASS 200° (GL5608)
64		(1/2",K=5.6)	VICTAULIC FL-SC/VS2 CONCEALED QR PENDENT WHITE 155° (V3204)
141	TOTAL SPRINKLERS FOR ENTIRE PROJECT		

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SHEET TITLE FIRE SPRINKLER RCP

SHEET FP-2.00

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Brace Information	
Length of Brace	7'-0"
Diameter:	1"
Type of Brace:	SCH.40PIPE
Angle of Brace:	45°-59°
Least Radius of Gyration:	.421
l/r value:	200
Maximum Horizontal Load:	1310

Fastener Information	
Orientation of connecting surface:	TYPE E
Fastener:	
Type:	THRU-BOLT
Diameter:	½"
Length: (In wood)	2½"
Maximum Load:	1250

Seismic Brace Attachments

Structure attachment fitting or tension-only bracing system:
Make BOLT Model BOLT
Listed load rating _____ Adjusted Load Rating _____
Transition attachment Fitting (where applicable):
Make TOLCO Model FIG.980
Listed load rating 2190 Adjusted Load Rating 1954
Sway Brace (pipe attachment) fitting:
Make TOLCO Model FIG.169 I
Listed load rating 3015 Adjusted Load Rating 1425

See Detail #9

Brace ID used on plans _____ Type LATERAL

Sprinkler System Load Calculation (Fpw = CpWp)
Cp = .68

3"	Sch.10	1 Pc.	10.9 ft. 7.94 lb./ft.	86.5 lb.
2"	Sch.40	9 Pcs.	54 ft. 5.13 lb./ft.	277 lb.
1"	Sch.40	12 Pcs.	23.9 ft. 2.05 lb./ft.	49 lb.
1"	Flex	8 Pcs.	16 ft. 1.5 lb./ft.	24 lb.
			Total Weight	436 lb.
			x Cp = 0.68	297 lb.
			ZOI + 15% = Assigned Load =	341 lb.

Brace Information	
Length of Brace	7'-0"
Diameter:	1"
Type of Brace:	SCH.40PIPE
Angle of Brace:	45°-59°
Least Radius of Gyration:	.421
l/r value:	200
Maximum Horizontal Load:	1310

Fastener Information	
Orientation of connecting surface:	TYPE E
Fastener:	
Type:	THRU-BOLT
Diameter:	½"
Length: (In wood)	2½"
Maximum Load:	1250

Seismic Brace Attachments

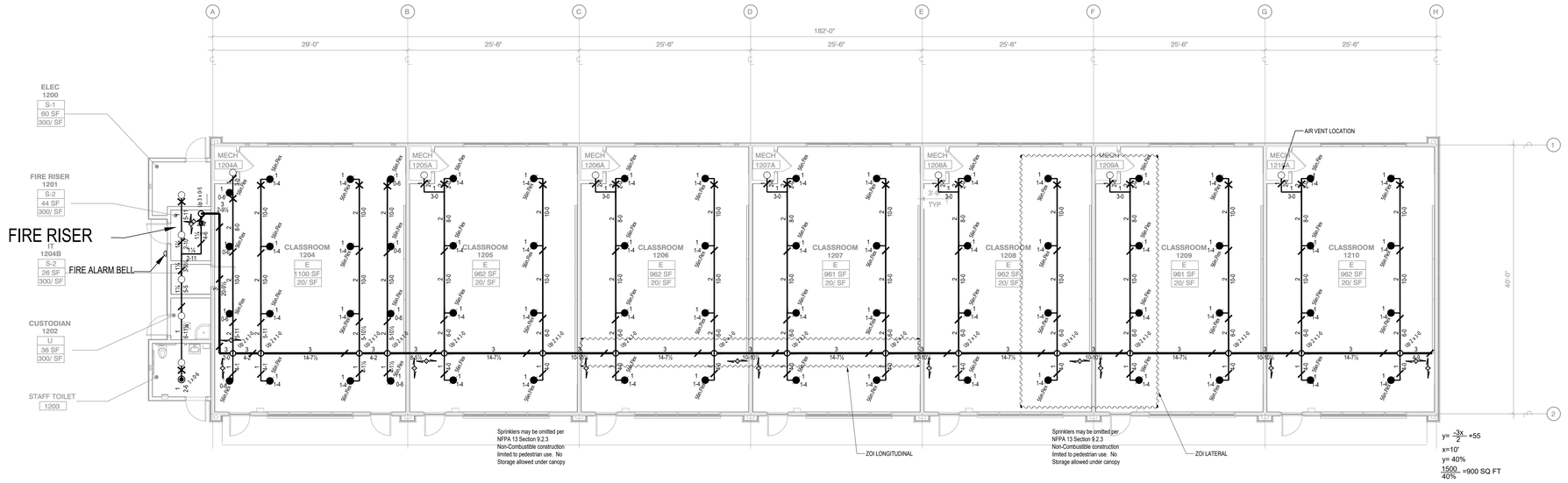
Structure attachment fitting or tension-only bracing system:
Make BOLT Model BOLT
Listed load rating _____ Adjusted Load Rating _____
Transition attachment Fitting (where applicable):
Make TOLCO Model FIG.980
Listed load rating 2190 Adjusted Load Rating 1950
Sway Brace (pipe attachment) fitting:
Make TOLCO Model FIG.AL
Listed load rating 3015 Adjusted Load Rating 1425

See Detail #5

Brace ID used on plans _____ Type LONGITUDINAL

Sprinkler System Load Calculation (Fpw = CpWp)
Cp = .68

3"	Sch.10	4 Pcs.	45.2 ft. 7.94 lb./ft.	358.9 lb.
			Total Weight	359 lb.
			x Cp = 0.68	244 lb.
			ZOI + 15% = Assigned Load =	281 lb.



FIRE PROTECTION PIPING PLAN

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

8 4 0 8 16

NORTH

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TELEPHONE (805) 963-1726 FAX (805) 963-2951

JOE S. WILCOX AIA
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ENGINEER'S STAMP & SIGNATURE

REGISTERED PROFESSIONAL ENGINEER BRENDON ROBINSON No. M 33482 Exp 6/30/27 MECHANICAL STATE OF CALIFORNIA

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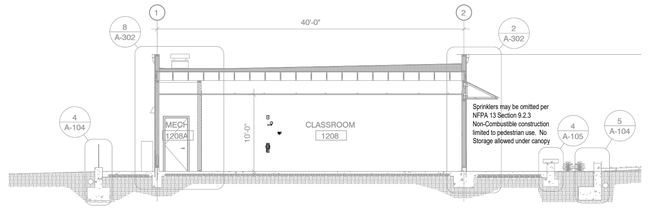
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SHEET TITLE SEISMIC BRACING PLAN

SHEET FP-3.00

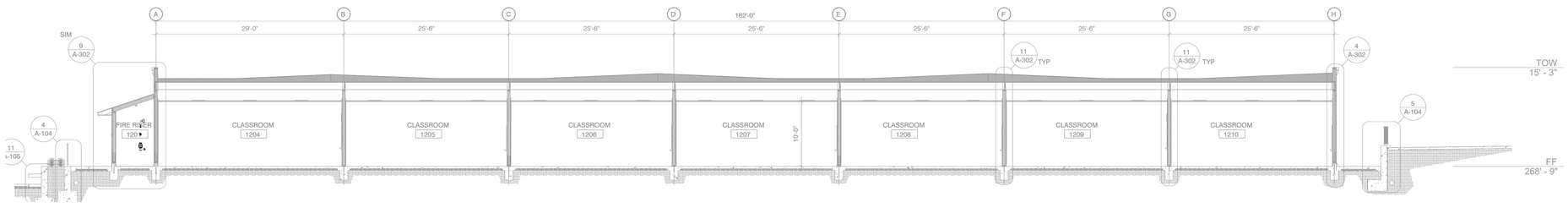
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SECTION

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

8 4 0 8 16



SECTION

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

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JOE S. WILCOX AIA
PRINCIPAL-IN-CHARGE

PATRICK B. PANLAQUI
PROJECT MANAGER

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ARCHITECT'S STAMP & SIGNATURE

LICENSED ARCHITECT JOE S. WILCOX No. C-19208 Ren. 2/27 STATE OF CALIFORNIA

ENGINEER'S STAMP & SIGNATURE

STRUCTURAL PROFESSIONAL ENGINEER BRENDON NORDSTROM 11-13-25 Exp 6/30/27 MECHANICAL STATE OF CALIFORNIA

CONSULTANT INFORMATION

5		
4		
3		
2		
1		
REVISION DESCRIPTION	DATE	BY

DRAWN KG
CHECKED RM
DATE 06/01/26
JOB. NO.

SHEET TITLE SECTIONS

SHEET FP–4.00

R:\Jobs\Division 1\2025 Job Folders\2510049 SLCUSD SLO HS Classroom Design\Design\2510049 SLCUSD SLO HS Classroom FP Sheets.dwg kgould May 22,2026–8:57am

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125456 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026

ENVIROPLEX, INC.

STEEL ORDINARY MOMENT RESISTING FRAME MODULAR BUILDING 12'x40' RESTROOM (480 S.F.)

SERIAL NUMBER 11360

TEST & INSPECTION GUIDELINE

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

TEST and INSPECTIONS (as listed on Form DSA-103)				STOCKPILE	CONSTRUCTION OF (duplicate material-foundation suffered)			RELOCATION OF CERTIFIED BUILDING	
MATERIAL TYPE		TEST No.	DESCRIPTION	WOOD FLOOR ONLY	CONCRETE FLOORS	PLYWOOD FLOOR ONLY -WOOD FOUNDATION	PLYWOOD FLOOR CONCRETE FOUNDATION	CONCRETE FLOOR - CONCRETE FOUNDATION	WOOD FOUNDATION	CONCRETE FOUNDATION
SOILS Verify the necessity of the Tests and/or Inspections with the requirements of the application that this PC is part of.	GENERAL	1	-Site has been prepared properly prior to fill placement/excavations -Pits excavations extended to proper depth and material -Materials below footing are adequate				X	X		X
	COMPACTED FILL	2a	Perform qualification testing of materials				X	X		X
		2b	Proper fill materials, fill thickness placement and compaction during placement.				X	X		X
		2c	Compaction test				X	X		X
CONCRETE	LT WT FILL OVER METAL DECK	7a	Verify required design mix		X			X		
		7b	Perform slump and (where required) air content test; determine temperature of concrete		X			X		
		7d	Test concrete - compression tests		X			X		
		7e	Inspect batching of concrete -		X			X		
		10	Waiver of Batch Plant Inspection (see Note 1 for conditions and requirements.		X			X		
		7f	Inspect placement of concrete, reinforcing and embedded items over steel deck - by PSI/IP		X			X		
	FOUNDATION	7a	Verify required Design Mix				X	X		X
		7b	Test reinforcing Steel - See Note 1 for Waiver for one Story Mods.				X	X		X
		7b	Perform slump and (where required) air content test; determine temperature of concrete				X	X		X
		7d	Test concrete - compression tests				X	X		X
		7e	Inspect batching of concrete -				X	X		X
		7f	Inspect placement of formwork, concrete, reinforcing steel and embedded items - by Project Inspector				X	X		X
	POST INSTALLED ANCHORED STEEL		Inspect installation of post installed anchors				X	X		X
			Test post-installed anchors				X	X		X
STRUCTURAL STEEL	MATERIAL VERIFICATION	17a	-Materials are appropriately marked -Mill certified mill test reports -Material sizes, types and grades comply with requirements	X	X	X	X	X		
		17b	Sample and test all unidentified structural steel and steel deck	X	X	X	X	X		
		17c	Examine seam welds of structural tubes and pipes	X	X	X	X	X		
		17d	Verify member locations, bracing and all details constructed in the shop.	X	X	X	X	X		
		17e	Verify stiffener locations, connection tab locations and all construction details fabricated in the shop.	X	X	X	X	X		
	VERIFICATION OF MATERIAL EQUIPMENT, WELDERS, ETC	18a	Verify weld filler material identification marking per AWS designation listed on the DSA approved documents and the WPS	X	X	X	X	X		
		18b	Verify weld filler material manufacturer's certificate of compliance	X	X	X	X	X		
		18c	Verify WPS, welder qualifications and equipment	X	X	X	X	X		
	SHOP WELDING	18.1a	Inspect groove, multi-pass, and fillet welds > 5/16"	X	X	X	X	X		
		18.1b	Inspect single-pass fillet welds ≤ 5/16"	X	X	X	X	X		
		18.1c	Inspect welding of stubs and rating systems. Note 3.	X	X	X	X	X		
	FIELD WELDING	18.2a	Inspect groove, multi-pass, and fillet welds > 5/16"			X	X	X		X
		18.2b	Inspect single-pass fillet welds ≤ 5/16"			X	X	X		X
		18.2c	Inspect welding of stubs and rating systems.			X	X	X		X
	OTHERS	24a	Shop Welding - Inspection welding of cold-formed steel Particle/Special Inspector	X	X	X	X	X		
		24b	Shop Welding - Inspect welding of steel floor deck welds Particle/Special Inspector		X			X		
OTHER - SHOT PINS (Two Story Module)		25	Ceiling wire hangers (pins in metal deck with screws @) Test/Lab		X			X		
INSPECTOR CLASS (minimum requirements)				RBSP or Class 1	In Plant RBSP or Class 1 Elsc. Class 4 for Single Story Elsc. Class 2 for Two-story				Class 4 for Single Story Class 2 for Two-story	
SELECTION OF THE PROJECT INSPECTOR AND TESTING AGENCY				By the Owner and approved by DSA, A/E of Record and Structural Engineer	By the School District and approved by DSA, A/E of Record and Structural Engineer					
COST OF THE PROJECT INSPECTOR (Title 24, Part1,Section 4-333) AND TESTING AGENCY (Title 24, Part 1, Section 4-335)				By the Owner	By the School District					

NOTE 1: Reinforcing steel tests may be waived for one-story buildings.
NOTE 2: Required only where the details of the PC specify the use of this type of anchor
NOTE 3: Required only where the details of the PC specify this Welding

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

PC GENERAL NOTES

1. THIS PC IS NOT APPROVED FOR "A" OCCUPANCY USES AND CANNOT BE REVIEWED OVER THE COUNTER (OTC).
2. PC BUILDING APPROVED ONLY FOR OCCUPANCY B, OR E WITH OCCUPANT LOAD LESS THAN 250. (2013 CBC TABLE 1604A.5 RISK CATEGORY I & II).
3. PC BUILDING EXITING IS BASED ON THE USE OR OCCUPANCY AND WILL BE REVIEWED AS SITE SPECIFIC.
4. PC BUILDING LOCATED IN FIRE HAZARD SEVERITY ZONES PER WILDLAND URBAN INTERFACE FIRE AREAS (WUI) SHALL CONFORM TO CBC CHAPTER 7A.
5. THIS PC IS NOT APPROVED FOR FIRE HAZARD SEVERITY ZONES PER C.B.C. CHAPTER 7A.
6. SITE AND USE SPECIFIC REQUIREMENT FOR FIRE ALARM SYSTEM MIGHT BE REQUIRED BUT NOT INCLUDED IN THIS PC APPROVAL.
7. THIS BUILDING IS STRUCTURALLY DESIGNED TO SUPPORT THE WEIGHT OF A FUTURE FIRE SPRINKLER SYSTEM (EQUIVALENT TO 1.5 psf MAXIMUM), IF REQUIRED.
8. THIS PC IS APPROVED FOR CLIMATE ZONES 1 THROUGH 16.
9. THIS PC IS NOT APPROVED FOR OCCUPANCY E USED AS SPECIAL HAZARD USE OR STORE SUCH AS LIBRARIES, VOCATIONAL SHOPS & DAYCARE CANNOT BE REVIEWED OVER THE COUNTER (OTC).
10. NOT USED.
11. SOLAR READY SITE ADOPTED PC BUILDINGS:
    PROVISIONS FOR SOLAR READY REQUIREMENTS OF THIS PC WILL BE PART OF ANOTHER BUILDING WITHIN 250 FT.
    SOLAR READY ZONE SHALL BE A MIN. OF 5 FT WIDE AND 80 SQ. FT. (TITLE 24, PART 6, 110.10(b).
    SOLAR READY ZONE MUST BE IN THE BUILDING OR WITHIN 250 FT. OF THE BUILDING AND HAVE A SOLAR ZONE AREA NO LESS THAN 15% OF THE TOTAL ROOF AREA OF THE BUILDING EXCLUDING ANY SKYLIGHT AREA.
    (TITLE 24, PART 6, 110.10(b) 1B.
12. NOT USED.
13. ENERGY CODE COMPLIANCE FORMS FOR SITE ADOPTED PC BUILDINGS:
    WHEN A PC BUILDING IS SITE ADAPTED, THE FOLLOWING FORMS SHALL BE SUBMITTED BY THE ARCHITECT OF RECORD WITH THE SITE SPECIFIC APPLICATION:
    DESIGN REVIEW KICKOFF - NRCC-CXR-01-E
    CONSTRUCTION DOCUMENTS, GENERAL - NRCC-CXR-02-E
    CONSTRUCTION DOCUMENTS, SIMPLE HVAC - NRCC-CXR-03-E
    DESIGN REVIEW SIGNATURE PAGE - NRCC-CXR-05-E
    SOLAR READY AREAS - NRCC-SRA-01-E
    WATER HEATING SYSTEMS (IF APPLICABLE) - CRCC-PLB-01-E

DSA GENERAL NOTES

1. ALL MATERIALS & WORKMANSHIP SHALL CONFORM TO THE 2013 CALIFORNIA BUILDING CODE (C.B.C.). A COPY OF THE CALIFORNIA BUILDING CODE SHALL BE KEPT ON THE SITE AT ALL TIMES.
2. CHANGES TO THE APPROVED DRAWINGS & SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CONST. CHANGE DOCUMENT APPROVED BY THE ARCHITECT OF RECORD, OWNER, & THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED (REFERENCE DSA IR-A6).
3. A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) & APPROVED BY THE ARCHITECT OF RECORD & THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-333(b) OF 2013 TITLE 24, PART 1.
4. MATERIAL TESTING AS NOTED IN THE STRUCTURAL TESTS & INSPECTIONS AT THE LEFT SHALL BE PERFORMED AS REQ. PER SECTION 1704A & 2212A, & 1913A FOR CONCRETE OF 2013 C.B.C.
   MATERIAL TESTING REQUIRED BY FIRE REGULATIONS SHALL BE PERFORMED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
5. VERIFIED REPORTS (DSA/SSS FORM 6) SHALL BE SUBMITTED PER SECTION 4-336, 4-341(f), 342(b)(8), AND 4-343 (c) BY THE MANUFACTURER, INSPECTOR, STRUCTURAL ENGINEER.
6. A SEPARATE DSA APPLICATION NUMBER MUST BE OBTAINED BEFORE MANUFACTURING ANY ENVIROPLEX UNIT IN ACCORDANCE WITH THESE DRAWINGS.
7. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD & ACCESS REQUIREMENTS & ENVIROMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
8. SPECIAL INSPECTIONS PER CHAPTER 17A, 2013 C.B.C.

OPT. COMBINATIONS ALLOWED

Option combination table
12'x40' PC
■ not applicable / not allowed

		Roof			Foundation			
		BS-Pitch	Shed	Concrete	2X8 wood	2X6 wood	12X6 wood
Exterior finish	Standard MDO, lap siding, wood clad siding	X	X	X	X	X	X
	Stucco-flex	X	X	X	■	■	■
	3-coat stucco	X	X	X	■	■	■
Roof slope	Bi-pitch	■			X	X	X
	Shed				X	X	X
Roof load/column	20 psf, TS 6 x 6 x 3/16"	X	X	X	X	X	X
Floor load	50 psf (joist spacing at 16" or 24" o.c.)	X	X	X	X	X	X
	65 psf (joist spacing at 16" or 24"o.c.)	X	X	X	■	X	X
	125 psf (joist spacing at 16"o.c.)	X	X	X	■	■	X
Floor construction	Plywood	X	X	X	X	X	X
	Concrete	X	X	X	■	■	■
Fire rated const.	NR / Sprinklered	X	X	X	X	X	X
	Fire barriers (int & ext., multiple walls)	X	X	X	X	X	X

GOVERNING CODES

2013 CALIFORNIA ADMINISTRATIVE CODE (CAC) (PART 1, TITLE 24, CCR)

2013 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR)
(2012 INTERNATIONAL BUILDING CODE WITH 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR)
(2011 NATIONAL ELECTRICAL CODE WITH 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA MECHANICAL CODE (CMC) (PART 4, TITLE 24, CCR)
(2012 UNIFORM MECHANICAL CODE WITH 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA PLUMBING CODE (CPC) (PART 5, TITLE 24, CCR)
(2012 UNIFORM PLUMBING CODE WITH 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR).

2013 CALIFORNIA FIRE CODE (CFC) (PART 9, TITLE 24, CCR).
(2012 INTERNATIONAL FIRE CODE WITH 2013 CALIFORNIA AMENDMENTS)

2013 CALIFORNIA GREEN BUILDING STANDARDS CODE (PART 11, TITLE 24, CCR)

2013 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)

NFPA 13 - 2013

NFPA 72 - 2013

DESIGN CRITERIA

DEAD AND LIVE LOADS

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

FLOOR: DEAD LOAD - 8.0 PSF (wood floor) 42.0 PSF (concrete floor)

ROOF: LIVE (SNOW) LOAD - 20.0 PSF

ROOF: DEAD LOAD - 9.5 PSF

ALLOWABLE SOIL PRESSURE

WOOD FOOTING (DL + LL + LATERAL) 1000 PSF

CONCRETE FOOTING (DL +LL) 1500 PSF
(DL + LL + LATERAL) 2000 PSF

FLOOD DESIGN

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

WIND DESIGN

BASIC WIND SPEED (3 SECOND GUST), V 110 MPH
WIND EXPOSURE CATEGORY C
CHAPTER 28, PART 2, ASCE 7-10, SEC 28.6 - SIMPLIFIED DESIGN WIND PRESSURES
I_w = 1.21
RISK CATEGORY = II
K_{zt} = 1.0

LOW SEISMIC DESIGN CRITERIA (Site specific $S_s \leq 1.875$)

LATERAL FORCE RESISTING SYSTEM: ORDINARY STEEL MOMENT FRAMES
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
SEISMIC DESIGN CATEGORY (SDC): D (S$_s$ <= 0.75) E (0.75 < S$_s$ < 1.5)

SEISMIC IMPORTANCE FACTOR, I_e = 1.0
V=EQUIV. LATERAL FORCE PROCEDURE BASE SHEAR (STRENGTH DESIGN)
$V = C_s \cdot W = 0.286W$
$C_s = \frac{S_{DS}}{(R/I_e)} = 0.286$

BASIC SEISMIC FORCE RESISTING SYSTEM: ORDINARY STEEL MOMENT FRAMES
R = 3.5 P = 1.0 SITE CLASS: D
I_e = 1.0 C_d = 3.0 $+S_s$ = 1.5 F_a = 1.0 S_{DS} = 1.0
Ω_o = 3.0 S_1 =1.5 F_v = 1.5 S_{D1} = 1.5

* PER CBC 1616A.1.12 (MODIFICATION TO ASCE 7-10, 12.8.1.3): "FOR REGULAR STRUCTURES FIVE STORIES OR LESS ABOVE THE BASE AS DEFINED IN SECTION 11.2 AND WITH A PERIOD, T, OF 0.5 SECONDS OR LESS, CdS PERMITTED TO BE CALCULATED USING THE LARGER OF EITHER S_s + 1.5 OR 80 PERCENT OF THE VALUE OF S_s DETERMINED PER SECTIONS 11.4.1 OR 11.4.7." THEREFORE, THIS PC IS PERMITTED FOR USE IN LOCATIONS WHERE S_s IS EQUAL TO 1.875 MAX (1.500 + 1.875).

HIGH SEISMIC DESIGN CRITERIA (Site specific $S_s \leq 2.625$)

LATERAL FORCE RESISTING SYSTEM: ORDINARY STEEL MOMENT FRAMES
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
SEISMIC DESIGN CATEGORY (SDC): D (S$_s$ <= 0.75) E (0.75 < S$_s$ < 1.5)

SEISMIC IMPORTANCE FACTOR, I_e = 1.0
V=EQUIV. LATERAL FORCE PROCEDURE BASE SHEAR (STRENGTH DESIGN)
$V = C_s \cdot W = 0.400W$
$C_s = \frac{S_{DS}}{(R/I_e)} = 0.400$

BASIC SEISMIC FORCE RESISTING SYSTEM: ORDINARY STEEL MOMENT FRAMES
R = 3.5 P = 1.0 SITE CLASS: D
I_e = 1.0 C_d = 3.0 $+S_s$ = 2.1 F_a = 1.0 S_{DS} = 1.4
Ω_o = 3.0 S_1 =1.5 F_v = 1.5 S_{D1} = 1.5

* PER CBC 1616A.1.12 (MODIFICATION TO ASCE 7-10, 12.8.1.3): "FOR REGULAR STRUCTURES FIVE STORIES OR LESS ABOVE THE BASE AS DEFINED IN SECTION 11.2 AND WITH A PERIOD, T, OF 0.5 SECONDS OR LESS, CdS PERMITTED TO BE CALCULATED USING THE LARGER OF EITHER S_s + 1.5 OR 80 PERCENT OF THE VALUE OF S_s DETERMINED PER SECTIONS 11.4.1 OR 11.4.7." THEREFORE, THIS PC IS PERMITTED FOR USE IN LOCATIONS WHERE S_s IS EQUAL TO 2.625 MAX (2.100 + 2.625).

BUILDING DATA

CONSTRUCTION TYPE:	V-B
OCCUPANCY:	☒ E
BUILDING AREA:	480 S.F. NOMINAL
NUMBER OF STORIES:	1

SHEET INDEX

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

☒ A0 = COVER SHEET, BUILDING CODES & CBC DATA, SHEET INDEX
☐ A1 = BOYS, GIRLS RESTROOM FLOOR PLAN, INTERIOR & EXTERIOR ELEVATIONS, MATERIAL SPECIFICATIONS, & NOTES
☒ A1A = STAFF, BOYS, GIRLS RESTROOM FLOOR PLAN, INT. & EXT. ELEVATIONS, MATERIAL SPECIFICATIONS, & NOTES
☒ A2 = REFLECTED CEILING PLANS & CEILING ATTACHMENT DETAILS
☒ A0B = GREEN BUILDING STANDARDS
☒ EH1 = ENERGY COMPLIANCE UNCONDITIONED RESTROOM
☒ EH1.1 = ENERGY COMPLIANCE UNCONDITIONED RESTROOM
☒ EH1.2 = ENERGY COMPLIANCE UNCONDITIONED RESTROOM
☒ A3 = ELECTRICAL POWER PLAN, SIGNAL PLAN, LIGHTING PLAN, DETAILS, ELECTRICAL NOTES
☐ A4 = SECTIONS AND DETAILS 2x4 EXTERIOR WALLS (NON-RATED)
☐ A4.1 = SECTIONS AND DETAILS 2x6 EXTERIOR WALLS (NON-RATED)
☐ A4.3 = SECTIONS AND DETAILS (1-HOUR FIRE RATED 2x6 EXTERIOR FIRE BARRIERS)
☐ A4A = B-PITCHED ROOF SECTIONS AND DETAILS (2x4 EXTERIOR WALLS)
☐ A4A.1 = B-PITCHED ROOF SECTIONS AND DETAILS (2x6 EXTERIOR WALLS)
☐ A4A.3 = B-PITCHED ROOF SECTIONS AND DETAILS (1-HOUR FIRE RATED 2x6 EXTERIOR FIRE BARRIERS)
☐ A4B = SHED ROOF SECTIONS AND DETAILS (2x4 EXTERIOR WALLS)
☐ A4B.1 = SHED ROOF SECTIONS AND DETAILS (2x6 EXTERIOR WALLS)
☐ A4B.3 = SHED ROOF SECTIONS AND DETAILS (1-HOUR FIRE RATED 2x6 EXTERIOR FIRE BARRIERS)
☐ A4H = INTERIOR WALL CONNECTION DETAILS
☐ A4H.1 = INTERIOR WALL CONNECTION DETAILS (1-HOUR FIRE BARRIERS OR FIRE PARTITIONS)
☐ A4H.2 = GYPSUM BOARD CEILING DETAILS
☐ A4C.1 = NON RATED WALL ATTACHMENT DETAILS - (CONCRETE FLOORS)
☐ A4C.2 = 1-HOUR FIRE BARRIER WALL ATTACHMENT DETAILS - (CONCRETE FLOORS)
☐ A4L = "LEVEL ROCK" FLOOR UNDERLAYMENT OPTION - (PLYWOOD FLOORS)
☐ A5 = MISCELLANEOUS DETAILS
☐ A5.1 = SOLA-TUBE SKYLIGHT OPTION
☐ S1C = CONCRETE FOUNDATION PLAN, FOOTING DETAILS, NOTES - (WOOD FLOOR)
☐ S1C(H) (HIGH SEISMIC) = CONCRETE FOUNDATION PLAN, FOOTING DETAILS, & NOTES - (WOOD FLOOR)
☐ S1C.1 = ALTERNATE FOOTING DETAILS
☐ S1C.2 = MISCELLANEOUS FOOTING DETAILS
☐ S1C.3 = CONCRETE FOUNDATION, FOOTING DETAILS & NOTES - (CONCRETE FLOORS)
☐ S1C.3(H) (HIGH SEISMIC) = CONCRETE FOUNDATION, FOOTING DETAILS & NOTES - (CONCRETE FLOORS)
☐ S1C.4 = MISCELLANEOUS FOOTING DETAILS - (CONCRETE FLOORS)
☐ S1W50 = 50 PSF WOOD FOUNDATION PLAN, PIER DETAILS, NOTES
☐ S1W50(H)= (HIGH SEISMIC) = 50 PSF WOOD FOUNDATION PLAN, PIER DETAILS, NOTES
☐ S1W65 = 65 PSF WOOD FOUNDATION PLAN, PIER DETAILS, NOTES
☐ S1W65(H)= (HIGH SEISMIC) = 65 PSF WOOD FOUNDATION PLAN, PIER DETAILS, NOTES
☐ S1W125 = 125 PSF WOOD FOUNDATION PLAN, PIER DETAILS, NOTES
☐ S1W125(H)=(HIGH SEISMIC) = 125 PSF WOOD FOUNDATION PLAN, PIER DETAILS, NOTES
☒ S2 = B-PITCH ROOF, CEILING, & FLOOR FRAMING PLANS, STRUCTURAL STEEL PROPERTIES, NOTES
☐ S2(H) = (HIGH SEISMIC) = B-PITCH ROOF, CEILING, & FLOOR FRAMING PLANS, STRUCTURAL STEEL PROPERTIES, NOTES
☐ S2A = SHED ROOF, CEILING, & FLOOR FRAMING PLANS, STRUCTURAL STEEL PROPERTIES, NOTES
☐ S2A(H) = (HIGH SEISMIC) = SHED ROOF, CEILING, & FLOOR FRAMING PLANS, STRUCTURAL STEEL PROPERTIES, NOTES
☐ S2C.1 = (HIGH & LOW SEISMIC) = FRAMING PLAN, STRUCTURAL STEEL PROPERTIES, NOTES - (CONCRETE FLOORS)
☐ S2RC = (HIGH & LOW SEISMIC) = FRAMING PLAN, STRUCTURAL STEEL PROPERTIES, NOTES - (WOOD FLOORS W/ HRC)
☐ S3FA = FASTENING SCHEDULE & NOTES
☐ S3 = B-PITCHED ROOF LONGITUDINAL BUILDING SECTION, WALL FRAMING ELEV., END FRAME ELEV., NAILING SCHEDULE
☐ S3A = SHED ROOF LONGITUDINAL BUILDING SECTION, WALL FRAMING ELEV., END FRAME ELEVATION, NAILING SCHEDULE
☒ S4 = STRUCTURAL CONNECTION DETAILS
☐ S4.1 = ALTERNATE STRUCTURAL DETAILS
☐ S4.2 = ALTERNATE STRUCTURAL DETAILS
☐ S4.3 = ALTERNATE DETAILS - METAL SOFFIT PANELS
☐ S4.4 = ALTERNATE DETAILS - METAL SOFFIT PANELS W/ WALL MOUNT HVAC UNIT
☐ S4C = STRUCTURAL CONNECTION DETAILS - (CONCRETE FLOORS)
☐ S4H = STRUCTURAL CONNECTION DETAILS - (WOOD FLOOR WITH HRC FRAME OPTION)
☒ WC1 = CANOPY FRAMING & CONNECTION DETAILS
☐ SSR = ACCESSIBLE RAMP & PLATFORM DETAILS
☐ SSS = STAIR DETAILS
☐ SSL = PLATFORM DETAILS (PLATFORM OVER 18" HEIGHT)

CYS
STRUCTURAL ENGINEERS INC.
Carl Yee Structural Engineers Inc.
1330 Commercial Way
Redwood City, CA 94063
(650) 556-9760
www.cysinc.com

REGISTERED PROFESSIONAL ENGINEER
ARTHUR "ERNEST" FORES
No. S2030
EXP. 9/30/15
STRUCTURAL
STATE OF CALIFORNIA

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

JUN 03 2015

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

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03 116940
AC SS
Date MAR 29 2016

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

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

SS-Joseph Sayles
FLS-Greg Calcote
ACS - Tom Mayers

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-113910
AC TM FLS SS
DATE 6-9-15

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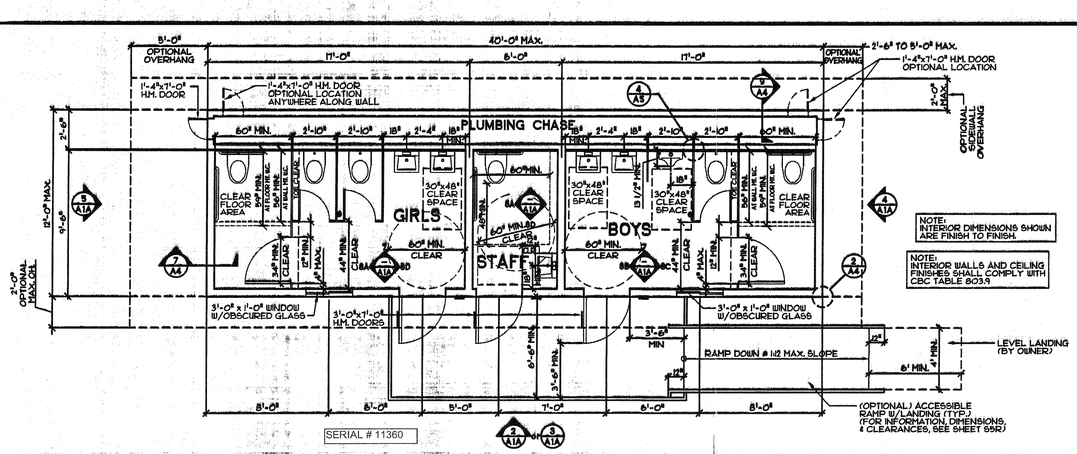
2013 - 12x40

AO

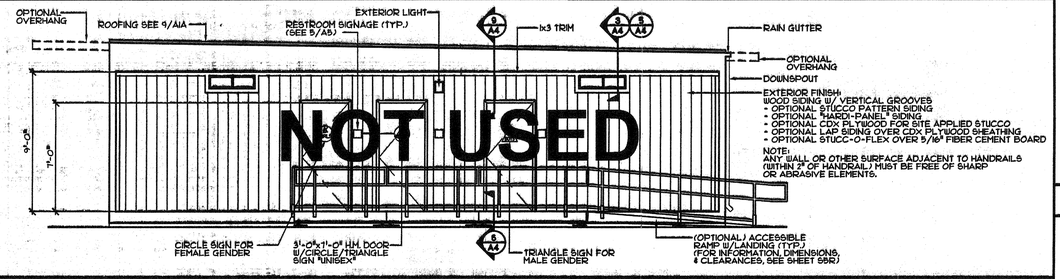
12'x40' P.C.

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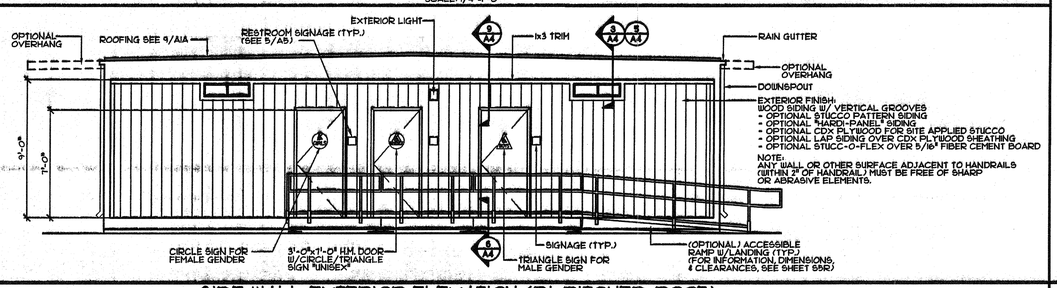
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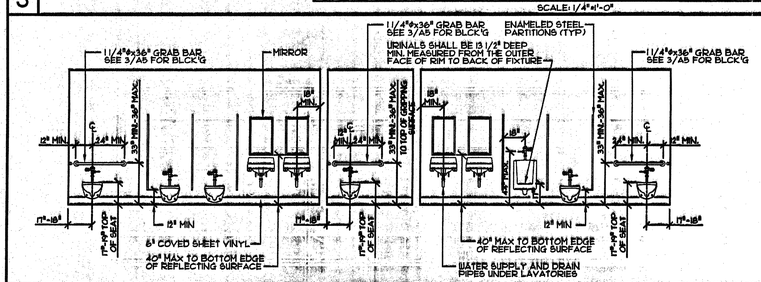
1 RESTROOM FLOOR PLAN
SCALE: 1/4"=1'-0"



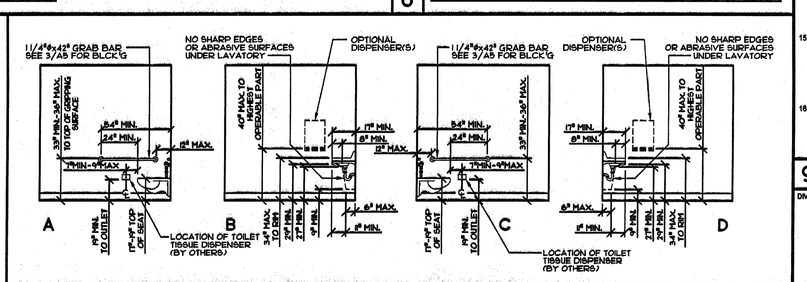
2 SIDE WALL EXTERIOR ELEVATION (SHED ROOF)
SCALE: 1/4"=1'-0"



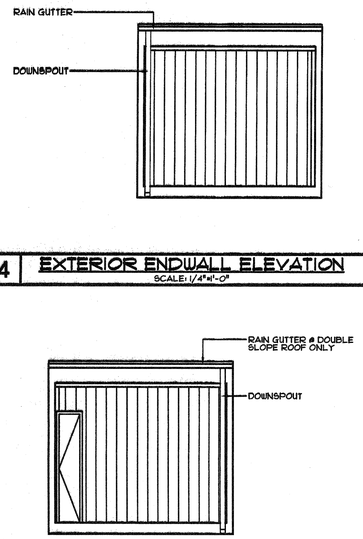
3 SIDE WALL EXTERIOR ELEVATION (BI-PITCHED ROOF)
SCALE: 1/4"=1'-0"



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



8 TYPICAL INTERIOR ELEVATION
SCALE: 1/4"=1'-0"



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

5 EXTERIOR ENDWALL ELEVATION
SCALE: 1/4"=1'-0"

CBC TABLE 11B-604.9
SUGGESTED DIMENSIONS FOR CHILDREN'S USE

	AGES 3 AND 4	AGES 5 THRU 8	AGES 9 THRU 12
W/WATER CLOSET CENTERLINE	12"	12" TO 15"	15" TO 18"
TOILET SEAT HEIGHT	8" TO 12"	12" TO 15"	15" TO 17"
GRAB BAR HEIGHT	18" TO 20"	20" TO 25"	25" TO 27"
DISPENSER HEIGHT	14"	14" TO 17"	17" TO 19"

DIMENSIONS FOR ADULT USE

W/WATER CLOSET CENTERLINE	17" TO 18"
TOILET SEAT HEIGHT	17" TO 19"
GRAB BAR HEIGHT	33" TO 36" (TO TOP OF GRIP SURFACE)
DISPENSER HEIGHT CENTERLINE	19" TO OUTLET (7" TO 9" FROM FRONT OF TOILET TO CENTERLINE)

6 TYPICAL FIXTURE MOUNTING HEIGHTS

1. FLOORING- COMMERCIAL SHEET VINYL, ARMSTRONG CORLON OR EQUAL
   NOTE: APPLICATION AND MAINTENANCE OF POLISHED-COATED FLOOR SURFACES (BY OWNER) SHALL BE SLIP RESISTANT, (0.5 MIN. COEFFICIENT OF FRICTION PER ASTM D-2047)
2. BASE TRIM- 6" COVED SHEET VINYL (SAME AS FLOORING)
3. WALL PANELS- FIBERGLASS REINFORCED POLYETHELYENE PANELS OVER 1/2" WATER RESISTENT GYPSUM WALL BOARD @ PLUMBING WALLS ONLY
4. ADHESIVES- ALL ADHESIVES SHALL BE WATER BASE, SOLVENT BASE NOT ACCEPTABLE. FURNISH AND APPLY PER MANUFACTURER'S WRITTEN INSTRUCTIONS. ALL ADHESIVES, SEALANTS, CAULKS, PAINTS, COATINGS, CARPET SYSTEMS, CARPET CUSHIONS, COMPOSITE WOOD PRODUCTS, AND RESILIENT FLOORING SYSTEMS SHALL COMPLY WITH GREEN BUILDING REQUIREMENTS, REFERENCE SHEET "AGB".
5. SEALANT- "VULKEM" SEALANT, POLYURETHANE, MANUFACTURED BY MAMECO INTERNATIONAL OR APPROVED EQUAL.
6. PAINT: (EXTERIOR WOODS) PRIMER: ACRYLIC UNDERCOAT FINISH: ACRYLIC ENAMEL (METALS) PRIMER: RED OXIDE ALKYD FINISH: ACRYLIC ENAMEL
7. M.D.O. BUILDING, DOOR, & WINDOW TRIM. JOINTS, PENETRATIONS, AND OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED TO LIMIT INFILTRATION AND EXFILTRATION. SEALANT PAINTED TO MATCH FINISHES.
   EXTERIOR SIDING - 8" O.C. GROOVED M.D.O. PLYWOOD OR STUCCO PATTERN FACED EXTERIOR SIDING. (MINUMUM NET THICKNESS 3/8")
8. HOLLOW METAL DOORS AND FRAMES- SIZES NOTED ON PLAN, 1 3/4" THICK 18 GA. FULL FLUSH DOOR IN 18 GA. METAL FRAME
   EXIT DOOR SHALL BE OPENABLE FROM THE INTERIOR WITHOUT A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
   PUSH/PULL FORCES PSF- DOORS SHALL BE SET FOR A MAXIMUM OPENING PRESSURE OF 5 LBS. MAX. CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.
   DEADBOLTS NOT PERMITTED UNLESS OPERABLE WITH A SINGLE EFFORT USING LEVER HANDLE.
   DOOR HANDLES & PULLS SHALL BE PLACED ON BOTH SIDES; LATCHES, LOCKS AND OTHER OPERATING DEVICES ON DOORS REQUIRED TO BE ACCESSIBLE SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE AND SHALL BE 34" MINIMUM AND 44 INCHES MAXIMUM ABOVE FINISHED FLOOR.
   DOOR SWINGS CAN BE RIGHT OR LEFT HAND HINGE.
   HARDWARE SHALL BE CENTERED BETWEEN 34" AND 44" ABOVE FINISHED FLOOR.
   LOCKSET: SCHLAGE D70PDRHO OR EQUAL
   HINGES: HAGER BB1279 N.R.P 4-1/2"x4-1/2" OR EQUAL
   CLOSER: NORTON 8501BF OR EQUAL
   THRESHOLD: PEMKO 271A OR EQUAL
   DOOR BOTTOM: PEMKO 216AV OR EQUAL
   WEATHERSTRIP: PEMKO 306A OR EQUAL
9. METAL ROOF:
   PREFINISHED, UNPENETRATED INTERLOCKING, 26 GAGE MIN. GALV. STEEL ROOF PANELS, MECH. CRIMPED STANDING SEAMS OVER SEAL-TITE #15 UNDERLAYMENT OVER 15/32" APA RATED, EXTERIOR GRADE PLYWOOD. (CLASS "B" FIRE RATING)
10. PLUMBING FIXTURE SCHEDULE:
    WATER CLOSET (WALL MOUNT) : KOHLER "KINGSTON" (1.28 G.P.F.) K-4325 OR EQUAL W/ SLOAN ROYAL 111-1.28 FLUSH VALVE (1.28 G.P.F.) OR EQ.
    WATER CLOSET (FLOOR MOUNT) :KOHLER "HIGHCLIFF" (1.6 G.P.F.) K-4369 OR EQUAL W/ SLOAN ROYAL 111-1.6/1.1 FLUSH VALVE (1.6/1.1 G.P.F.) OR EQ.
    SEAT: BEMIS 1955-SSC (O.F.I.C.) OR EQUAL
    URINALS: KOHLER "DARFIELD" K-5024-T (0.5 G.P.F.) OR EQUAL W/ SLOAN MODEL 186-0.5 FLUSH VALVE (0.5 G.P.F.) OR EQ.
    LAVATORIES: KOHLER "KINGSTON" K-2005 20" x 18" OR EQUAL
    FAUCET: T & S BRASS, B-2711-F05 (0.5 GPM) OR EQUAL
    OPTIONAL WATER HEATER: "AO SMITH", PEC-30, 30 GAL, ELECTRIC, 15,359 INPUT RATE, (OR EQUAL) EXPOSED HOT WATER PIPES SHALL BE INSULATED. 1" THICK INSULATION FOR PIPE 1" DIA, OR LESS. 1 1/2" THICK INSULATION FOR PIPE GREATER THAN 1" DIA.
    COLD WATER PIPING: TYPE L COPPER
    DRAIN, WASTE & VENT: ABS AND PVC PIPES, STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION PER TITLE 24, PART 5, CALIFORNIA CODE OF REGULATIONS, CHAPER 4, SEC. 401 (A)
11. ALL PLUMBING FIXTURES AND ACCESSORIES TO BE INSTALLED IN ACCORDANCE WITH ACCESSIBILITY REQUIREMENTS. (PER SECTION C.B.C. 11B DIVISION 6) FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE BY ONE HAND AND NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS. LEVER OPERATED, PUSH TYPE, AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.
12. ALL TOILETS SHOWN ARE TO BE WALL MOUNTED W/ HAND OPERATED FLUSH VALVE LOCATED 44 INCHES MAX. ABOVE FLOOR. WHEELCHAIR ACCESSIBLE TOILETS SHALL HAVE THE FLUSH VALVE ACTIVATOR ON THE OPEN SIDE.
13. DOORS HANDLES FOR ENAMELED STEEL PARTITIONS SHALL BE PLACED ON BOTH SIDES NEAR THE LATCH; SHALL PROVIDE A CLEAR WIDTH OF 34" FOR WHEELCHAIR ACCESSIBLE STALLS AND 24" WIDE FOR STANDARD STALLS. DOORS FOR ACCESSIBLE TOILETS SHALL BE SELF CLOSING, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON DOORS REQUIRED TO BE ACCESSIBLE SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE AND SHALL BE 34" MINIMUM AND 44 INCHES MAXIMUM ABOVE FINISHED FLOOR.
14. THE DOOR LEADING INTO BOY'S FACILITY SHALL BE IDENTIFIED BY AN EQUILATERAL TRIANGLE 1/4" THICK WITH EDGES 12" LONG AND A VERTEX POINTING UPWARD. THE DOOR LEADING INTO GIRL'S FACILITY SHALL BE IDENTIFIED BY A CIRCLE 1/4" THICK AND 12" IN DIAMETER. UNISEX FACILITY SHALL BE IDENTIFIED BY A CIRCLE 1/4 THICK AND 12" IN DIAMETER WITH A 1/4" THICK TRIANGLE WITH THE VERTEX POINTING UPWARD SUPERIMPOSED ON THE CIRCLE & WITHIN THE 12" DIAMETER. THE GEOMETRIC SYMBOLS SHALL BE MOUNTED ON THE DOOR AT A HEIGHT PER DETAIL 5 SHEET A5 AND THEIR COLOR AND CONTRAST SHALL MEET THE IDENTIFICATION SIGNAGE FINISH REQUIREMENTS OF DETAIL 10 SHEET A5
15. ALL INSULATION SHALL COMPLY W/CALIFORNIA QUALITY STANDARDS & CALIFORNIA BUILDING CODE SECTION 719 CHAPTER 25 FOR FOAM INSULATION INCLUDING PIPE INSULATION. FLAME SPREAD MAX=25, SMOKE DENSITY MAX=450.
    1. CEILING INSULATION TO BE R-19 FIBERGLASS
    2. WALL INSULATION TO BE R-13 FIBERGLASS
    3. FLOOR INSULATION TO BE R-11 RIGID CELLULAR BOARD
16. THE MANUFACTURER SHALL PLACE TWO PERMANENT METAL IDENTIFICATION TAG ON EACH MODULAR BUILDING MECHANICALLY FASTENED TO THE END WALL. THE TAG SHALL SHOW D.S.A. APPLICATION NUMBER, MANUFACTURER'S SERIAL NUMBER, PLANT INSPECTOR'S IDENTIFICATION MARK AND DESIGN FLOOR AND ROOF LIVE LOAD. PLACE ONE TAG ON EXTERIOR AND, ONE ON THE INTERIOR ABOVE CEILING LINE.

9 MATERIAL SPECIFICATIONS & NOTES

DIVISION OF THE STATE ARCHITECT

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STAFF, BOYS, GIRLS
RESTROOM FLOOR PLAN,
INTERIOR & EXTERIOR ELEVATIONS,
MATERIAL SPECIFICATIONS,
& NOTES

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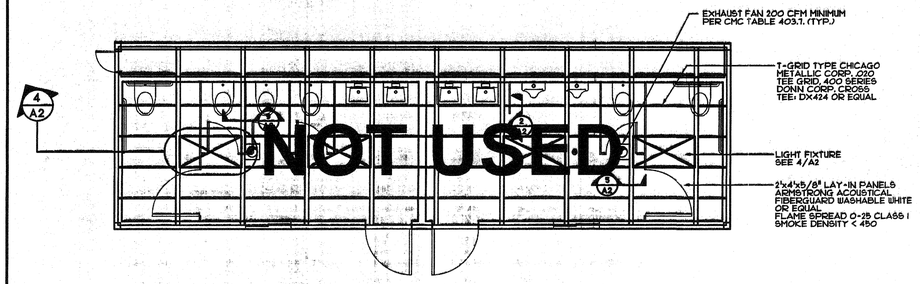
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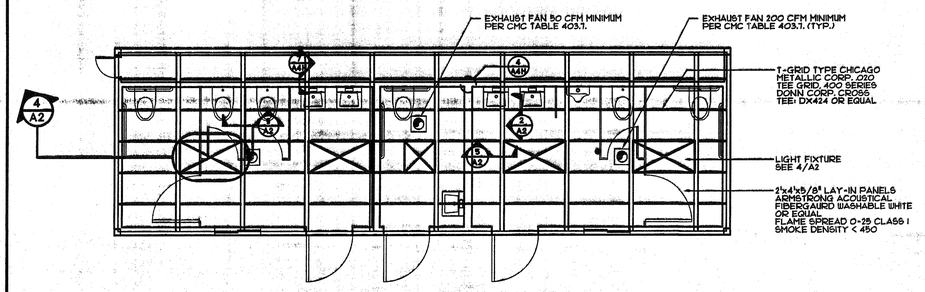
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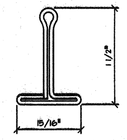
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1 "BOYS / GIRLS" REFLECTED CEILING PLAN
SCALE: 1/4"=1'-0"



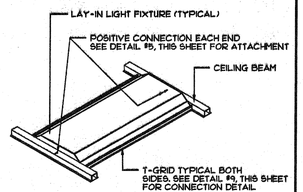
6 "BOYS / GIRLS / STAFF" REFLECTED CEILING PLAN
SCALE: 1/4"=1'-0"



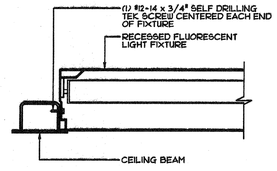
NOTE: T-GRID TO BE DONN CORP. CROSS TEE : DX424 OR CHICAGO METALLIC CORP. .020 TEE GRID, 400 SERIES OR EQUAL.

2 TYP. T-GRID SECTION
SCALE: FULL

3

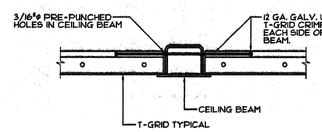


4 LAY-IN LIGHT FIXTURE
SCALE: 1/2"=1'-0"

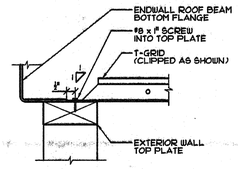


5 LIGHT FIXTURE SUPPORT
SCALE: 3"=1'-0"

8



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



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

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REFLECTED CEILING PLANS & CEILING ATTACHMENT DETAILS

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CAL-GREEN MANDATORY MEASURES

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

1. WATER CLOSETS.
   THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK-TYPE TOILETS.
2. URINALS.
   THE EFFECTIVE FLUSH VOLUME OF URINALS SHALL NOT EXCEED 0.5 GALLONS PER FLUSH.
3. INDOOR WATER USE:
   LAVATORY FAUCETS - 0.5 GPM
   KITCHEN FAUCETS - 2.2 GPM
   GRAVITY TANK WATER CLOSET - 1.28 GAL/FLUSH
   FLUSHOMETER TANK WATER CLOSET - 1.28 GAL/FLUSH
   FLUSHOMETER VALVE WATER CLOSET - 1.28 GAL/FLUSH
   URINALS - 0.5 GAL/FLUSH
4. EXTERIOR DOOR PROTECTION.
   PRIMARY EXTERIOR ENTRIES SHALL BE COVERED TO PREVENT WATER INTRUSION BY USING NONABSORBENT FLOOR AND WALL FINISHES WITHIN AT LEAST 2 FEET AROUND AND PERPENDICULAR TO SUCH OPENINGS
   PLUS AT LEAST ONE OF THE FOLLOWING:
   1. AN INSTALLED AWNING AT LEAST 4 FEET IN DEPTH.
   2. THE DOOR IS PROTECTED BY A ROOF OVERHANG AT LEAST 4 FEET IN DEPTH.
   3. THE DOOR IS RECESSED AT LEAST 4 FEET.
   4. OTHER METHODS WHICH PROVIDE EQUIVALENT PROTECTION.
5. WASTE MANAGEMENT COMPANY.
   UTILIZE A WASTE MANAGEMENT COMPANY THAT CAN PROVIDE VERIFIABLE DOCUMENTATION THAT THE PERCENTAGE OF CONSTRUCTION AND DEMOLITION WASTE MATERIAL DIVERTED FROM THE LANDFILL.
6. COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION.
   AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY COLLECT IN THE SYSTEM.
7. CARPET SYSTEMS.
   ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET AT LEAST ONE OF THE TESTING AND PRODUCT REQUIREMENTS:
   1. CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM.
   2. COMPLIANT WITH THE VOC-EMISSION LIMITS AND TESTING REQUIREMENTS SPECIFIED IN THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS, VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS CDPH STANDARD METHOD V1.1 OR SPECIFICATION 01350) .
   3. NSF/ANSI 140 AT THE GOLD LEVEL OR HIGHER;
   4. SCIENTIFIC CERTIFICATIONS SYSTEMS SUSTAINABLE CHOICE; OR
   5. COMPLIANT WITH THE CALIFORNIA COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CA-CHPS) CRITERIA INTERPRETATION FOR EQ 2.2 DATED JULY 2012 AND LISTED IN THE CHPS HIGH PERFORMANCE PRODUCT DATABASE.
8. CARPET CUSHION.
   ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CARPET AND RUG INSTITUTE GREEN LABEL PROGRAM.
9. CARPET ADHESIVE.
   ALL CARPET ADHESIVE SHALL MEET THE REQUIREMENTS OF TABLE 5.504.4.1.
10. COMPOSITE WOOD PRODUCTS.
    HARDWOOD PLYWOOD, PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF THE BUILDINGS SHALL MEET THE REQUIREMENTS FOR FORMALDEHYDE AS SPECIFIED IN ARB'S AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD (17 CCR 93120 ET SEQ). .
    THOSE MATERIALS NOT EXEMPTED UNDER THE ATCM MUST MEET THE SPECIFIED EMISSION LIMITS, AS SHOWN IN TABLE 5.504.4.5.
11. RESILIENT FLOORING SYSTEMS.
    80% OF FLOOR AREA RECEIVING RESILIENT FLOORING, INSTALLED RESILIENT FLOORING SHALL MEET AT LEAST ONE OF THE FOLLOWING:

    1. CERTIFIED UNDER THE RESILIENT FLOOR COVERING INSTITUTE (RFCI) FLOOR SCORE PROGRAM;

    2. COMPLIANT WITH THE VOC-EMISSION LIMITS AND TESTING REQUIREMENTS SPECIFIED IN THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH'S 2010 STANDARD METHOD FOR THE TESTING AND EVALUATION CHAMBERS, VER 1.1, FEB 2010.;

    3. COMPLIANT WITH THE CALIFORNIA COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CA-CHPS) CRITERIA INTERPRETATION FOR EQ 2.2 DATED JULY 2012 AND LISTED IN THE CHPS HIGH PERFORMANCE PRODUCT DATABASE;

    4. COMPLIANT WITH CDPH CRITERIA AS CERTIFIED UNDER THE GREENGUARD CHILDREN'S & SCHOOLS PROGRAM.

    VERIFICATION OF COMPLIANCE.
    DOCUMENTATION SHALL BE PROVIDED VERIFYING THAT RESILIENT FLOORING MATERIALS MEET THE POLLUTANT EMISSION LIMIT.

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT 1,2

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

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.
2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

TABLE 5.504.4.2 - SEALANT VOC LIMIT

Less Water and Less Exempt Compounds in Grams per Liter	
SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

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

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS 1

MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION	
PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD 2	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.
2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

JUN 03 2015

CYS
STRUCTURAL ENGINEERS INC.
1442 Response Road, Suite 230
Sacramento, CA 95815
(916) 286-0190 (916) 920-1448 Fax
www.cysse.com

REGISTERED PROFESSIONAL ENGINEER
ARTHUR "ERNEST" ROSE
No. S2030
EXP. 6/30/15
STRUCTURAL
STATE OF CALIFORNIA

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

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

GREEN BUILDING STANDARDS

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-113910
AC FLS SS
DATE 6-4-15

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03 116940
AC FLS MSS ZT
Date MAR 2 9 2016

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

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12X40 P.C.

AGB

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125456 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026

STATE OF CALIFORNIA
INDOOR LIGHTING
ENERGY CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS — NRCC-LTI-01-E
Indoor Lighting — (Page 1 of 5)
Project Name: 12x40 Modular PC — Date Prepared: 10/17/2014

Climate Zone:	Conditioned Floor Area : 0
3	Unconditioned Floor Area : 480

General Information

Building Type:	☐ Nonresidential	☐ High-Rise Residential	☐ Hotel/Motel		
☐ Schools	☐ Relocatable Public Schools	☐ Conditioned Spaces	☒ Unconditioned Spaces		
Phase of Construction:	☒ New Construction	☐ Addition	☐ Alteration		
Method of Compliance	☐ Complete Building	☐ Area Category	☐ Tailored		

LIGHTING COMPLIANCE DOCUMENTS (select yes for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	FORM	TITLE
YES		NRCC-LTI-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
YES		NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
YES		NRCC-LTI-03-E	Indoor Lighting Power Allowance
	NO	NRCC-LTI-04-E	Tailored Installed Worksheets
	NO	NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets

Summary of Allowed Lighting Power

Conditioned and Unconditioned space lighting must not be combined for compliance

	Indoor Lighting Power for Conditioned Spaces		Watts		Indoor Lighting Power for Unconditioned Spaces		Watts
1.	Installed Lighting NRCC-LTI-01-E, page 4	+	0		Installed Lighting NRCC-LTI-01-E, page 4	+	336
2.	PORTABLE ONLY FOR OFFICES NRCC-LTI-01-E, page 3	+					
3.	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	0		Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	0
4.	Adjusted Installed Lighting Power (row 1 plus row 2 minus row 3)	=	0		Adjusted Installed Lighting Power (row 1 minus row 3)	=	336

STATE OF CALIFORNIA
INDOOR LIGHTING
ENERGY CALIFORNIA ENERGY COMMISSION
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Indoor Lighting — (Page 2 of 5)
Project Name: 12x40 Modular PC — Date Prepared: 10/17/2014

5.		Complies ONLY if Installed ≤ Allowed		Complies ONLY if Installed ≥ Allowed	
6.	Allowed Lighting Power Conditioned NRCC-LTI-01-E, page 1	0	Allowed Lighting Power Unconditioned NRCC-LTI-01-E, page 1		528

Declaration of Required Installation Certificates – Declare by selecting yes for all installation Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	
X		NRCI-LTI-01-E - Must be submitted for all buildings	☐ Field Inspector
X		NRCI-LTI-01-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector
	X	NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	☐ Field Inspector
	X	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐ Field Inspector
	X	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐ Field Inspector
	X	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐ Field Inspector

Declaration of Required Certificates of Acceptance – Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	
X		NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐ Field Inspector
	X	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐ Field Inspector
	X	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐ Field Inspector

STATE OF CALIFORNIA
INDOOR LIGHTING
ENERGY CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS — NRCC-LTI-01-E
Indoor Lighting — (Page 3 of 5)
Project Name: 12x40 Modular PC — Date Prepared: 10/17/2014

A separate Lighting Schedule Must be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
CONDITIONED SPACE ☒ UNCONDITIONED SPACE

A. INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

☐ The actual indoor lighting power listed on this page and on the next page includes all installed permanent and planned portable lighting systems.
☐ When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.
☐ When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines
☐ Also include track lighting in schedule, and submit the track lighting compliance form (NRCC-LTI-03-E) when line-voltage track lighting is installed.

B. Installed Portable Luminaires in Offices – Exception to Section 140.6(a)

☐ This section shall be filled out ONLY for portable luminaires in offices (As defined in §100.1). All other planned portable luminaires shall be documented on next page of this compliance form.
☐ This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office
☐ Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance shall not be traded between offices having different lighting systems.

Office Portable Luminaire Schedule	Office Installed Portable Luminaire Watts Per Square Foot							Office Location	Field Inspector	
A	B	C	D	E	F	G	H	I	J	
Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted direct/indirect)	Watts per Luminaire	Quantity	Number of Luminaires	Installed portable luminaire watts in this office (B x C)	Square Feet of Office	Watts per square foot (D / E)	If F ≤ 0.3, enter zero; If F > 0.3, (F-0.3)	If H ≤ 0	Identify Office area in which these portable luminaires are located	Pass	Fail
										☐	☐
										☐	☐
										☐	☐
										☐	☐
										☐	☐
Total installed portable luminaire watts that are greater than 0.3 watts per square foot per office:									Enter sum total of all pages into NRCC-LTI-01-E; Page 1		

STATE OF CALIFORNIA
INDOOR LIGHTING
ENERGY CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS — NRCC-LTI-01-E
Indoor Lighting — (Page 3 of 5)
Project Name: 12x40 Modular PC — Date Prepared: 10/17/2014

A separate Lighting Schedule Must be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☐ CONDITIONED SPACE ☒ UNCONDITIONED SPACE

A. INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

☐ The actual indoor lighting power listed on this page and on the next page includes all installed permanent and planned portable lighting systems.
☐ When Complete Building Method is used for compliance, list each different type of luminaire by each different function area on separate lines.
☐ When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines
☐ Also include track lighting in schedule, and submit the track lighting compliance form (NRCC-LTI-03-E) when line-voltage track lighting is installed.

B. Installed Portable Luminaires in Offices – Exception to Section 140.6(a)

☐ This section shall be filled out ONLY for portable luminaires in offices (As defined in §100.1). All other planned portable luminaires shall be documented on next page of this compliance form.
☐ This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office
☐ Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance shall not be traded between offices having different lighting systems.

Office Portable Luminaire Schedule	Office Installed Portable Luminaire Watts Per Square Foot							Office Location	Field Inspector	
A	B	C	D	E	F	G	H	I	J	
Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted direct/indirect)	Watts per Luminaire	Quantity	Number of Luminaires	Installed portable luminaire watts in this office (B x C)	Square Feet of Office	Watts per square foot (D / E)	If F ≤ 0.3, enter zero; If F > 0.3, (F-0.3)	If H ≤ 0	Identify Office area in which these portable luminaires are located	Pass	Fail
										☐	☐
										☐	☐
										☐	☐
										☐	☐
										☐	☐
Total installed portable luminaire watts that are greater than 0.3 watts per square foot per office:									Enter sum total of all pages into NRCC-LTI-01-E; Page 1		

STATE OF CALIFORNIA
INDOOR LIGHTING
ENERGY CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS — NRCC-LTI-01-E
Indoor Lighting — (Page 4 of 5)
Project Name: 12x40 Modular PC — Date Prepared: 10/17/2014

A separate Lighting Schedule Must be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☐ CONDITIONED SPACE ☒ UNCONDITIONED SPACE

C. INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Luminaire Schedule		Installed Watts					Location	Field Inspector	
A	B	C	D	E	F	G	H	I	J
Luminaire Type Tag	Complete Luminaire Description (i.e., 3 lamp fluorescent troffer, F32T8, w/o dimmable electronic ballast)	Number of Luminaires	New wattage was determined Lighting Controls	New wattage was determined Electronic Ballasts	Number of Lamps	Watts per lamp (including ballast losses)	Primary Function area in which these luminaires are located	Pass	Fail
A	4 ft LED 3GTL 4 SOL	59.0	☐	☐	4	236	Relocatable Public School	☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
			☐	☐				☐	☐
	INSTALLED WATTS PAGE TOTAL					236	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

STATE OF CALIFORNIA
INDOOR LIGHTING
ENERGY CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE – USER INSTRUCTIONS — NRCC-LTI-01-E
Indoor Lighting — (Page 5 of 5)
Project Name: 12x40 Modular PC — Date Prepared: 10/17/2014

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Hayley Dodd	Documentation Author Signature:	
Company:	EnergySoft, LLC	Signature Date:	10/17/2014
Address:	1035 5th Street, Suite A	City/State/Zip:	Novato, CA 94949
Phone:	(415) 897-9400	CEA/ HERS Certification Identification (If Applicable):	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

Responsible Designer Name:	Lula Esquivel	Responsible Designer Signature:	
Company:	Enviroplex Inc.	Date Signed:	6-8-15
Address:	4777 E. Carpenter Rd	License:	640557
City/State/Zip:	Stockton, CA 95215	Phone:	209-466-8000

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
ENERGY CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE — NRCC-LTI-02-E
Indoor Lighting - Lighting Controls — (Page 1 of 3)
Project Name: 12x40 Modular PC — Date Prepared: 10/17/2014

The NRCC-LTI-02-E shall be used to document all mandatory and prescriptive lighting controls that are applicable to this project.

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

YES	NO	Control Requirements
X		Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 130.0.
X		Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
	X	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
	X	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).
X		All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
X		All luminaires shall be functionally controlled with manually switched ON and OFF lighting controls in accordance with Section 130.1(a).
X		General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled, in accordance with Section 130.1(a)4.
X		The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
X		All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).
	X	Lighting in all Daylit Zones shall be controlled in accordance with the requirement in Section 130.1(d) and daylit zones are shown on the plans.
	X	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).
X		Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting control role serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4 (a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF controls, and demand responsive controls.

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
ENERGY CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE — NRCC-LTI-02-E
Indoor Lighting - Lighting Controls — (Page 2 of 3)
Project Name: 12x40 Modular PC — Date Prepared: 10/17/2014

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:
☑ CONDITIONED SPACES ☐ UNCONDITIONED SPACES

MANDATORY AND PRESCRIPTIVE INDOOR LIGHTING CONTROL SCHEDULE, PAF CALCULATION, and FIELD INSPECTION CHECKLIST

Lighting Control Schedule			Standards Complying With [1] (✓ all that apply, or enter "0" if Exempted)								PAF Credit Calculation [2]				# of Acceptance Test Required	Field Inspector	
											Daylighting Controls (Table 130.1-A)	PAF	Credit (Col D x Col E x Col F)	Control Credit Total		Pass	Fail
A	B	C	D	E	F	G	H	I	J		K	L	M	N		O	
Location in Building	Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	# of Units	130.1(a)	130.1(b)	130.1(c)	130.1(d)	130.1(e)	130.1(f)	130.1(g)	130.1(h)							
																☐	☐
																☐	☐
																☐	☐
																☐	☐
																☐	☐
																☐	☐
																☐	☐
										Control Credit PAGE TOTAL (Sum of Column M):							
										IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column M):							
															Enter Control Credit total into NRCC-LTI-01-E; Page 1.		

1. §130.1(a) = Manual area controls; §130.1(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) = Additional lighting controls installed to earn a PAF; §140.6(a) = Prescriptive Secondary Skylit Daylight Controls.
2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
ENERGY CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE — NRCC-LTI-02-E
Indoor Lighting - Lighting Controls — (Page 3 of 3)
Project Name: 12x40 Modular PC — Date Prepared: 10/17/2014

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:
☐ CONDITIONED SPACES ☑ UNCONDITIONED SPACES

MANDATORY AND PRESCRIPTIVE INDOOR LIGHTING CONTROL SCHEDULE, PAF CALCULATION, and FIELD INSPECTION CHECKLIST

Lighting Control Schedule			Standards Complying With [1] (✓ all that apply, or enter "0" if Exempted)								PAF Credit Calculation [2]				# of Acceptance Test Required	Field Inspector	
											Daylighting Controls (Table 130.1-A)	PAF	Credit (Col D x Col E x Col F)	Control Credit Total		Pass	Fail
A	B	C	D	E	F	G	H	I	J		K	L	M	N		O	
Location in Building	Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	# of Units	130.1(a)	130.1(b)	130.1(c)	130.1(d)	130.1(e)	130.1(f)	130.1(g)	130.1(h)							
																☐	☐
																☐	☐
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																☐	☐
																☐	☐
																☐	☐
										Control Credit PAGE TOTAL (Sum of Column M):	0						
										IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column M):	0						
															Enter Control Credit total into NRCC-LTI-01-E; Page 1.		

1. §130.1(a) = Manual area controls; §130.1(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) = Additional lighting controls installed to earn a PAF; §140.6(a) = Prescriptive Secondary Skylit Daylight Controls.
2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

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

CYS
STRUCTURAL ENGINEERS INC
1040 Natomas Park Drive, Suite 400
Sacramento, CA 95834
(916) 920-3201 Fax
www.cysinc.com

JUN 03 2015

REGISTERED PROFESSIONAL ENGINEER
JUSTICE ERNEST SASS
No. S2000
EXP. 9/30/15
STRUCTURAL
STATE OF CALIFORNIA

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ENERGY COMPLIANCE
UNCONDITIONED RESTROOM

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03 116940
AC ☒ FLS ☐ SS ☒
Date MAR 29 2016

APPROVED
DIVISION OF STATE ARCHITECT
HIGH PERFORMANCE SECTION
APP.# 02-113910 DATE: 6/5/15
Sylvia Barrios, C.E.P.S.

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

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02–113910
AC ☐ FLS ☐ SS ☒
DATE 6-5-15

12'x40' P.C.

EN1

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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125456 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026

STATE OF CALIFORNIA — CALIFORNIA ENERGY COMMISSION

INDOOR LIGHTING – LIGHTING CONTROLS

CERTIFICATE OF COMPLIANCE — NRCC-LTI-03-E
Indoor Lighting - Lighting Controls — (Page 3 of 3)
Project Name: 12x40 Modular PC — Date Prepared: 10/17/2014

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Hayley Dodd	Documentation Author Signature:	
Company:	EnergySoft, LLC	Signature Date:	10/17/2014
Address:	1035 5th Street, Suite A	City/State/Zip:	Novato, CA 94949
Phone:	(415) 897-9400		

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

Responsible Designer Name:	Luis Esquivel	Responsible Designer Signature:	
Company:	Enviroplex Inc.	Date Signed:	6-9-15
Address:	4777 E. Carpenter Rd	License:	642957
City/State/Zip:	Stockton, CA 95215	Phone:	209-466-8000

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance — June 2014

STATE OF CALIFORNIA — CALIFORNIA ENERGY COMMISSION

INDOOR LIGHTING POWER ALLOWANCE

CERTIFICATE OF COMPLIANCE — NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance — (Page 1 of 4)
Project Name: 12x40 Modular PC — Date Prepared: 10/17/2014

ALLOWED LIGHTING POWER
A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☐ CONDITIONED spaces ☒ UNCONDITIONED spaces

A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES
☐ If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.
☐ If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts

	(a)	(b)
1. Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page)		
2. Area Category Method Allowed Watts. Documented in section C1 of NRCC-LTI-03-E (below on this page)		528
3. Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E		0
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1.		528

☐ Check here if building contains both conditioned and unconditioned areas.

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE

A — TYPE OF BUILDING (From §140.6 Table 140.3-B)	B — WATTS PER (ft^2)	×	C — COMPLETE BLDG. AREA	=	D — ALLOWED WATTS
Total Area:					
Total Watts. Enter Total Watts into section A, row 1 (Above on this page)					

C-1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCE (C-2 plus C-3)

	Watts
Total from section C-2	528
Total from section C-3	0
Total Watts. Enter Total Watts into section A, row 2 (Above on this page)	528

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance — June 2014

STATE OF CALIFORNIA — CALIFORNIA ENERGY COMMISSION

INDOOR LIGHTING POWER ALLOWANCE

CERTIFICATE OF COMPLIANCE — NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance — (Page 2 of 4)
Project Name: 12x40 Modular PC — Date Prepared: 10/17/2014

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☐ CONDITIONED spaces ☒ UNCONDITIONED spaces

C-2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE
☐ Do not include portable lighting for offices. Portable lighting for offices shall be documented only in section B of NRCC-LTI-03-E.
☐ Separately list lighting for each primary function area as defined in §100.1 of the Standards.

A — Location in Building	A — Primary Function Area per Table 140.6-C	B — WATTS PER (ft^2)	×	C — AREA (ft^2)	=	D — ALLOWED WATTS
Restroom	Relocatable Public School	1.10		480		528

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APP: 03-125456 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
CEC-NRCC-LTO-01-E (Revised 08/14) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTO-03-E (Page 3 of 5)
Outdoor Lighting Controls
Project Name: 12x40 Modular PC — Date Prepared: 10/17/2014

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is complete and complete.

Documentation Author Name:	Hayley Dodd	Documentation Author Signature:	
Company:	EnergySoft, LLC	Signature Date:	10/17/2014
Address:	1035 5th Street, Suite A	CEC HERS Certification Identification (If applicable):	ENERGY-SOFT
City/State/Zip:	Novato, CA 94949	Phone:	(415) 897-8400

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

Responsible Designer Name:	Luis Esquivel	Responsible Designer Signature:	
Company:	Enviroplex Inc.	Date Signed:	6-15-15
Address:	4777 E. Carpenter Rd	License:	640957
City/State/Zip:	Stockton, CA 95215	Phone:	209-466-8000

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance — June 2014

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-02-E (Revised 08/14) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTO-02-E (Page 2 of 4)
Outdoor Lighting Power Allowances
Project Name: 12x40 Modular PC — Date Prepared: 10/17/2014

C. ADDITIONAL "USE IT OR LOSE IT" OUTDOOR LIGHTING POWER ALLOWANCES FOR SPECIFIC APPLICATIONS
☐ The additional specific outdoor lighting power allowance shall be the smaller of the allowed lighting power or the actual lighting power used.
☐ Use Outdoor Lighting Zone (OLZ) that is documented on page 1 of NRCC-LTO-01-E to calculate the specific wattage allowances.

C-1. WATTAGE ALLOWANCE PER APPLICATION – Table 140.7-B
☐ Available only for qualifying locations, which include Building Entrances or Exits; Primary Entrances to Senior Care Facilities, Police Stations, Hospitals, Fire Stations, and Emergency Vehicle Facilities; Drive Up Windows; Vehicle Service Station Uncovered Pool Dispenser
☐ If more than one luminaire type is used per location, use multiple rows for that location.

A	B	C	D	E	F	G	H	I	J
	ALLOWED WATTS			DESIGN WATTS					
Name of Location for which allowance is claimed	Number of qualifying locations	Wattage Allowance per qualifying location	Allowed Watts (B x C)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per luminaire	Design Watts (E x H)	Allowed Watts (smaller of D or G)
Outdoor Lighting	1	90	90	B	60w Incandescent	1	60.0	60	60
							Sum total allowances per application on this site:		

C-2. WATTAGE ALLOWANCE PER LINEAR LENGTH (Sales Frontage) from Table 140.7-B
☐ If more than one luminaire type is used per location, use multiple rows for that location

A	B	C	D	E	F	G	H	I	J
	ALLOWED WATTS			DESIGN WATTS					
Name of Location for which allowance is claimed	Linear feet of Sales Frontage	Wattage Allowance per linear foot	Allowed Watts (B x C)	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per luminaire	Design Watts (E x H)	Allowed Watts (smaller of D or G)
							Sum total allowances for sales frontage on the site:		0

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance — June 2014

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
CEC-NRCC-LTO-02-E (Revised 08/14) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-LTO-02-E (Page 4 of 4)
Outdoor Lighting Power Allowances
Project Name: 12x40 Modular PC — Date Prepared: 10/17/2014

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is complete and complete.

Documentation Author Name:	Hayley Dodd	Documentation Author Signature:	
Company:	EnergySoft, LLC	Signature Date:	10/17/2014
Address:	1035 5th Street, Suite A	CEC HERS Certification Identification (If applicable):	ENERGY-SOFT
City/State/Zip:	Novato, CA 94949	Phone:	(415) 897-8400

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
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Responsible Designer Name:	Luis Esquivel	Responsible Designer Signature:	
Company:	Enviroplex Inc.	Date Signed:	6-15-15
Address:	4777 E. Carpenter Rd	License:	640957
City/State/Zip:	Stockton, CA 95215	Phone:	209-466-8000

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance — June 2014

JUN 03 2015

CYS
STRUCTURAL ENGINEERS INC.
4445 Natomas Park Drive, Suite 450
Sacramento, CA 95834
Telephone: (916) 928-3240 Fax:
(916) 928-3241
www.cysinc.com

REGISTERED PROFESSIONAL ENGINEER
ANTHONY C. CYS
No. S20030
EXP: 6/30/15
STRUCTURAL
STATE OF CALIFORNIA

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

ENERGY COMPLIANCE
UNCONDITIONED RESTROOM

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JOB No.:
DRAWN BY:
DATE:

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02-113910
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DATE 6-9-15

EN1.2

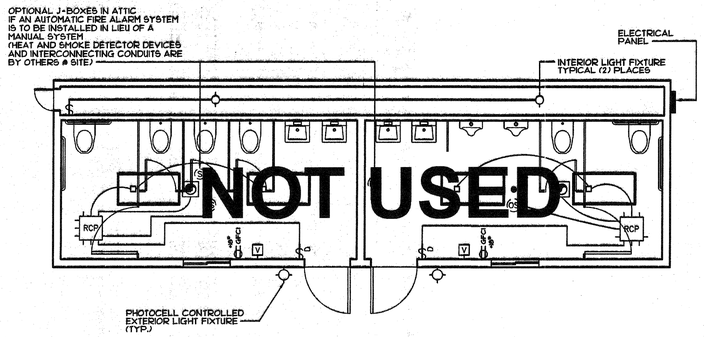
12x40 P.C.

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03 116940
AC FLS MSS BJT
Date MAR 2 9 2016

APPROVED
DIVISION OF STATE ARCHITECT
HIGH PERFORMANCE SECTION
APP.# 02-113910 DATE 6/5/15
Rob Barron, C.E.A.S.

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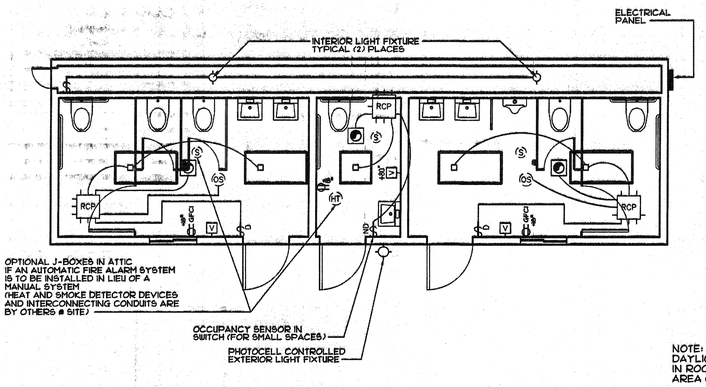
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SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026



NOTE:
DAYLIGHTING CONTROLS ARE NOT REQUIRED IN ROOMS THAT HAVE A TOTAL GLAZING AREA OF LESS THAN 24 SQ. FT.

1a ELECTRICAL POWER, LIGHTING & SIGNAL PLAN

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



NOTE:
DAYLIGHTING CONTROLS ARE NOT REQUIRED IN ROOMS THAT HAVE A TOTAL GLAZING AREA OF LESS THAN 24 SQ. FT.

11 ELECTRICAL POWER, LIGHTING & SIGNAL PLAN

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

PANEL SCHEDULE: "A"
MOUNTING: SURFACE NEMA-1 VOLTS: 120/240
PANEL: 125A PHASE: 1Φ
MAIN BREAKER: 125A WIRE: 3W

DESCRIPTION	LOAD	BRKR		MAIN 125 A	MAIN 125 B		BRKR	LOAD	DESCRIPTION
			1			2	20/1	600	LIGHTING-A
			3			4	20/1	600	LIGHTING-B
			5			6	20/1	1800	OUTLETS
			7			8	20/1	1800	OUTLETS
			9			10			
			11			12			

LEG A: 2400 W LEG B: 2400 W TOTAL: 4800 W

7 TYP. INTERIOR PANEL SCHEDULE

- RCP — RELAY CONTROLLER PANEL: NEMA 1 PLENUM RATED, SURFACE MOUNTED DIMMING PANEL. (RELAYS, DIMMING OUTPUTS, PHOTOCELL INPUTS, & DRY CONTACT INPUTS).
- LIGHT FIXTURE: 2'x4' LED RECESSED TROFFER TYPE
- LIGHT FIXTURE: 2'x2' LED RECESSED TROFFER TYPE
- (OS) OCCUPANCY SENSOR: LOW VOLTAGE, CEILING MOUNTED, OPTIONAL - WALL MOUNTED.
- S_D DIMMING SWITCH: LOW VOLTAGE, TWO BUTTON, DIGITAL SWITCH W/ MANUAL ON/OFF & DIMMING CONTROL. (#=48" MAX A.F.F. TO TOP OF BOX).
- S_{ND} NON-DIMMING SWITCH: LOW VOLTAGE, TWO BUTTON, DIGITAL SWITCH W/ MANUAL ON/OFF. (#=48" MAX A.F.F. TO TOP OF BOX).
- EXTERIOR LIGHT: COMPACT FLUORESCENT, 13 WATT, WALL PACK. "LITHONIA" TWS (OR EQUAL) MOUNTED # =96" A.F.F. (U.O.N.)

LIGHTING LEGEND

1. OPTIONAL WALL CLOCK (BY OWNER) : PROVIDE SINGLE CLOCK RECEPTACLE 115 VAC (OR EQUAL) .
2. ELECTRICAL PANEL: FLUSH INTERIOR MOUNTED OR SURFACE MOUNT EXTERIOR W/ HINGED DOORS AND INDEXED CARD HOLDERS. CIRCUIT BREAKER (Ⓢ WILL HAVE AN APPROPRIATE UL. LABEL LISTING.
3. RECEPTACLES: "LEVITON", "HUBBEL" (OR EQUAL)
4. ELECTRIC METALLIC TUBING: COUPLINGS AND FLEX CONDUIT GALVANIZED OR SHERARDIZED.

3 ELECTRICAL SPECIFICATIONS

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

2 FIRE PROTECTION

- DUPLEX RECEPTACLE #=15" MIN. A.F.F. (TO BOTTOM OF BOX) OR 18" A.F.F. TO CENTERLINE OF BOX. (UNLESS OTHERWISE NOTED)
- J — JUNCTION BOX (SIZE AND INSTALLATION HEIGHT AS NOTED)
- WPH — WATER PROOF BELL BOX UNDER EAVE #=9'-4" (U.O.N.) FOR FUTURE FIRE ALARM AUDIBLE WARNING DEVICE SEE NOTE NO. 1 OF FIRE PROTECTION
- HP — JUNCTION BOX #=48" A.F.F. (TO TOP OF BOX) FOR FUTURE FIRE ALARM PULL STATION - SEE NOTE NO. 1 OF FIRE PROTECTION ABOVE
- V — JUNCTION BOX #=90" (U.O.N.) FOR FUTURE FIRE ALARM HORN/STROBE DEVICE - SEE NOTE NO. 1 OF FIRE PROTECTION ABOVE
- I — JUNCTION BOX #=48" A.F.F. (TO TOP OF BOX) (U.O.N.) FOR FUTURE INTERCOM
- CEILING MOUNT EXHAUST FAN (CFM PER SHEET A2)
- HT — OPTIONAL JUNCTION BOX IN ATTIC FOR FUTURE HEAT DETECTOR (DEVICES AND INTERCONNECTING CONDUITS BY OTHERS # SITE)
- S — OPTIONAL JUNCTION BOX IN ATTIC FOR FUTURE SMOKE DETECTOR (DEVICES AND INTERCONNECTING CONDUITS BY OTHERS # SITE)

4 ELECTRICAL LEGEND

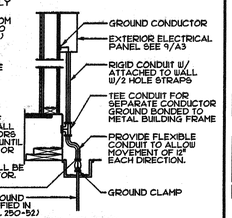
1. CERTIFIED LUMINARIES/BALLASTS.
2. INDEPENDENT CONTROL WITHIN ENCLOSED AREAS.
3. MANUAL SWITCHING READILY ACCESSIBLE.
4. REDUCTION OF LIGHTING LOAD TO AT LEAST 50% VIA (2) SWITCHES OR (1) MULTI-LEVEL SWITCH.
5. NOT USED.
6. TANDEM WIRING OF (4) LAMP LUMINARIES.

5 ELECTRICAL ENERGY COMPLIANCE

1. LIGHTING FIXTURE: 2' x 4' LED RECESSED TROFFER TYPE FIXTURES, W/ LOW VOLTAGE DIMMING CONTROL SIGNAL, MAXIMUM 6000 LUMENS, MAX 59W. "LITHONIA" 2GTL (OR EQUAL) .
2. DAYLIGHT CONTROL PHOTOCELL: ON/OFF AND AUTOMATIC DIMMING CONTROL, CEILING MOUNT, LOW VOLTAGE. "nLIGHT" nCM ADC OR nCM ADCX (OR EQUAL) .
3. LIGHT SWITCHES: ON/OFF & ON/OFF PLUS DIMMING, PUSH BUTTON, LOW VOLTAGE. "nLIGHT" nCM ADC OR nCM ADCX (OR EQUAL) .
4. OCCUPANCY SENSOR: LOW VOLTAGE, WALL MOUNT OR CEILING MOUNT,
5. RELAY CONTROL PANEL: RELAY DIMMING PANEL, NEMA 1 PLENUM RATED, SURFACE MOUNTED. W/ 30A RELAYS, LOW VOLTAGE DIMMING OUTPUTS, PHOTOCELL OUTPUTS, DRY CONTACT INPUTS, AND OPTIONAL VOLTAGE BARRIER FOR EM CIRCUITS. "ACUITY BRANDS" (OR EQUAL)
6. ILLUMINATED EXIT SIGNS: IF REQUIRED BY CODE, SHALL BE PROVIDED IN COMPLIANCE W/ C.B.C. 1011 & 1006.
7. NOT USED.
8. SKYLIGHTS (IF OPTION IS INCLUDED IN SITE SPECIFIC PROJECT) : GENERAL LIGHTING FIXTURES PLACED IN THE PRIMARY DAYLIT ZONE OF SKYLIGHTS SHALL BE CONTROLLED IN RESPONSE TO AVAILABLE DAYLIGHTING.
9. ACCESSIBLE, INDEPENDENT SWITCHING OR A CONTROL DEVICE SHALL BE INCLUDED FOR ALL AREAS ENCLOSED BY CEILING HEIGHT PARTITIONS.
10. ALL OUTDOOR LIGHTING SHALL BE CONTROLLED BY A PHOTOCELL OR OUTDOOR ASTRONOMICAL TIME SWITCH CONTROL.
11. FOR NON-POLE MOUNTED LUMINAIRES OVER 30 WATTS EACH: OUTDOOR LIGHTING WHERE BOTTOM OF LUMINAIRE IS MOUNTED 24 FEET OR LESS ABOVE THE GROUND SHALL BE CONTROLLED BY MOTION SENSORS OR OTHER CONTROLS CAPABLE OF REDUCING THE LIGHTING POWER OF EACH LUMINAIRE BY 40 TO 80% IN RESPONSE TO THE AREA BEING VACATED.

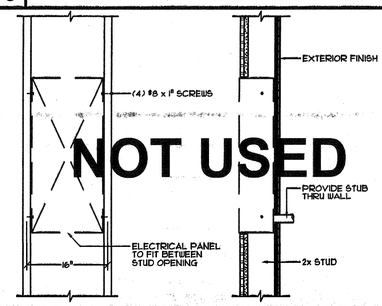
LIGHTING SPECIFICATIONS

NOTES:
1. SIZE OF CONDUCTORS SHALL COMPLY W/ CEC. TABLE 250
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELEC. PANEL AND TO METAL BUILDING FRAME (CEC. 250-52) IN ADDITION TO THE DETAIL SHOWN BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10' INTO THE SOIL IF AVAILABLE (CEC. 250-52)
3. ALL MODULES OF METAL FRAME BUILDING SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING.
4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITNL. GROUND RODS W/ CONDUCTORS AS SHOWN, SEPARATE AT LEAST 6'0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (CEC. 250-53).
5. ELECTRICAL GROUNDING TEST SHALL BE WITNESSED BY THE PROJECT INSPECTOR.

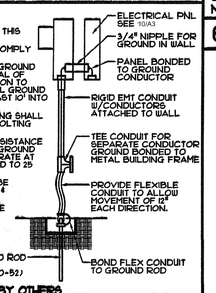


NOTE: GROUND TO BE PROVIDED BY OTHERS

6 ELECTRICAL GROUND

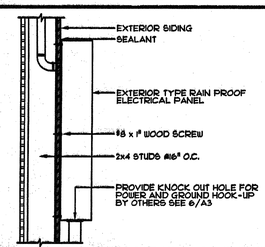


NOTES:
1. METER AND GROUND ARE NOT PART OF THIS CONTRACT TO BE PROVIDED BY OTHERS
2. SIZE OF GROUND CONDUCTOR SHALL COMPLY W/ CEC TABLE 250-122
3. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL OF BUILDING FRAME (CEC. 250-52) IN ADDITION TO THE DETAIL SHOWN BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10' INTO THE SOIL IF AVAILABLE (C.E.C. 250-52)
4. ALL MODULES OF METAL FRAME BUILDING SHALL BE ELECTRICALLY BONDED TOGETHER, BOLTING ONLY IS NOT ACCEPTABLE BONDING.
5. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS W/ CONDUCTORS AS SHOWN, SEPARATE AT LEAST 6'0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS. (C.E.C. 250-52)
6. ELECTRICAL GROUNDING TEST SHALL BE WITNESSED BY THE PROJECT INSPECTOR & RESULTS SENT TO D.S.A..
7. GROUND ROD GROUNDING CLAMP TO BE BUSHING RATED FOR 3 CONNECTIONS



NOTE: GROUND TO BE PROVIDED BY OTHERS

8 ELECTRICAL GROUND



10 ELECTRICAL PANEL INSTALLATION

SCALE: 1"=1'-0"

9 ELECTRICAL PANEL INSTALLATION

SCALE: 1"=1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03 116940
AC ☑ FLS ☑ SS ☑
Date MAR 29 2016

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

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REGISTERED PROFESSIONAL ENGINEER
PATRICK ERNEST ROSTEN
No. 52030
EXP. 9/30/15
STRUCTURAL
STATE OF CALIFORNIA

JUN 03 2015

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

ELECTRICAL POWER PLAN, SIGNAL PLAN, LIGHTING PLAN, DETAILS, ELECTRICAL NOTES

REV / DATE:	BY:

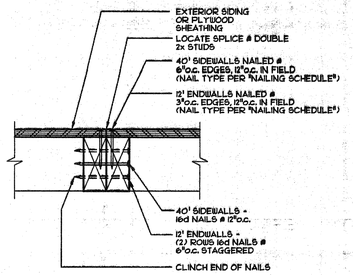
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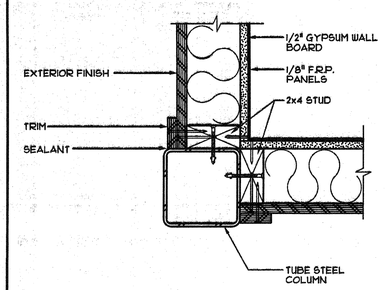
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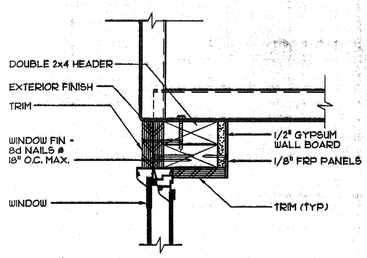
FOR FASTENER SCHEDULE, SEE "S3" SHEETS

1 SIDING SPLICE DETAIL
SCALE: 3"=1'-0"



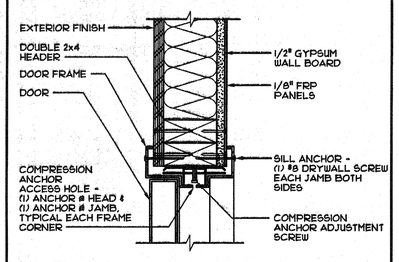
FOR FASTENER SCHEDULE, SEE "S3" SHEETS

2 SECTION - COLUMN @ CORNER
SCALE: 3"=1'-0"



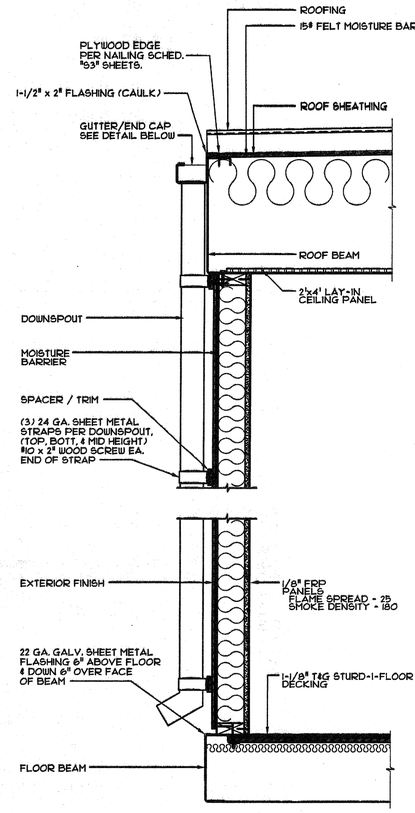
SECTION @ WINDOW JAMB IS SIMILAR

3 SECTION - WINDOW HEADER
SCALE: 3"=1'-0"



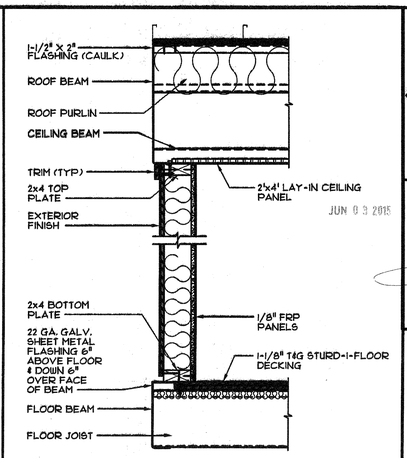
SECTION @ DOOR JAMB IS SIMILAR

4 SECTION - DOOR HEADER
SCALE: 3"=1'-0"



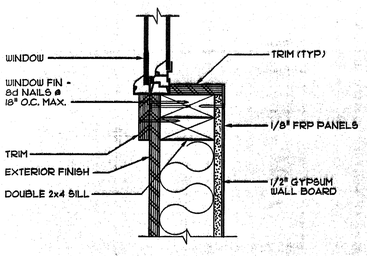
FOR FASTENER SCHEDULE, SEE "S3" SHEETS

7 SECTION - @ ENDWALL
SCALE: 1 1/2"=1'-0"

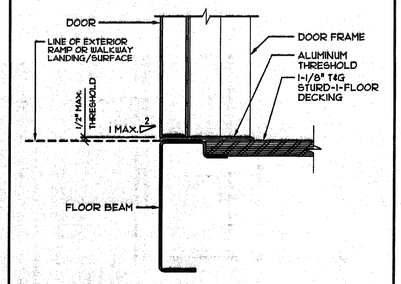


FOR FASTENER SCHEDULE, SEE "S3" SHEETS

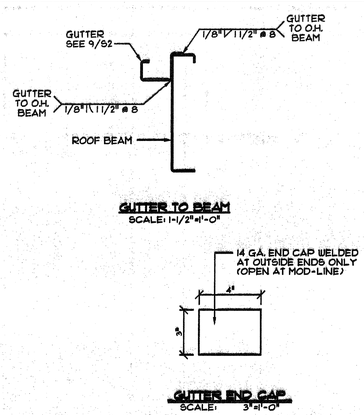
9 SECTION - @ SIDEWALL
SCALE: 1 1/2"=1'-0"



5 SECTION - WINDOW SILL
SCALE: 3"=1'-0"



6 SECTION - DOOR THRESHOLD
SCALE: 3"=1'-0"



GUTTER TO BEAM
SCALE: 1-1/2"=1'-0"

GUTTER END CAP
SCALE: 3"=1'-0"

8 GUTTER INSTALLATION DETAIL
SCALE: 3"=1'-0"

JUN 03 2015

REGISTERED PROFESSIONAL ENGINEER — VICTOR ERNEST REES — No. S2030 EXP. 9/30/15 — STRUCTURAL — STATE OF CALIFORNIA

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DIVISION OF THE STATE ARCHITECT

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Code: 2013 CBC
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4777 E. CARPENTER ROAD STOCKTON, CA. 95215, (209) 466-8000

SECTIONS AND DETAILS 2x4 EXTERIOR WALLS (NON-RATED)

REV / DATE:	BY:

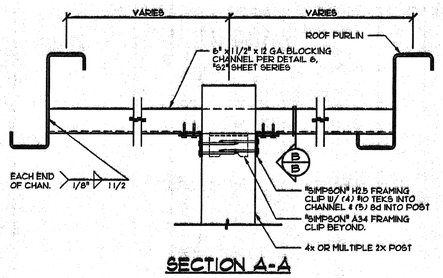
JOB No.:
DRAWN BY:
DATE:

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-113910
AC JM FLS VC SS
DATE 6-9-15
DSA = blank

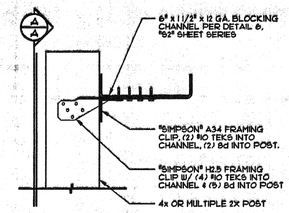
A4

12"x18" P.C.

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APP: 03-125456 INC:
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DATE: 07/01/2026



SECTION A-A

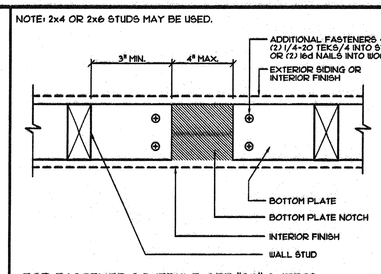


SECTION B-B

11 TOP CONNECTION - FULL HT. POST FOR HALF WALLS

SCALE: 3"=1'-0"

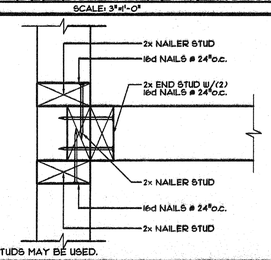
NOTE: 2x4 OR 2x6 STUDS MAY BE USED.



FOR FASTENER SCHEDULE, SEE "S3" SHEETS

1 ALLOWABLE BOTTOM PLATE NOTCH

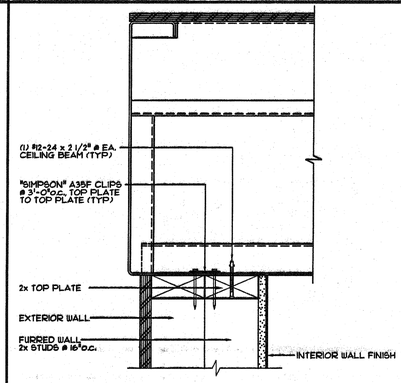
SCALE: 3"=1'-0"



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

4 PERPENDICULAR WALL CONNECTION

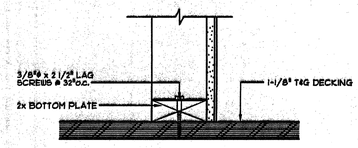
SCALE: 3"=1'-0"



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

6 FURRED WALL - TOP PLATE CONN.

SCALE: 3"=1'-0"

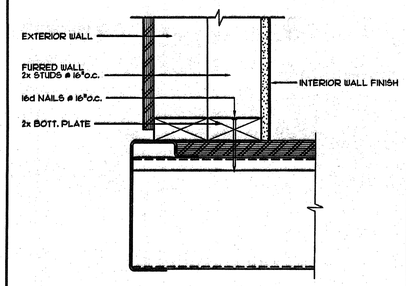


THIS DETAIL SHALL BE USED ONLY FOR PLUMBING CHASE WALLS SUPPORTING WALL HUNG TOILET FIXTURES.

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

11 PLUMBING CHASE WALL TO FLOOR

SCALE: 3"=1'-0"



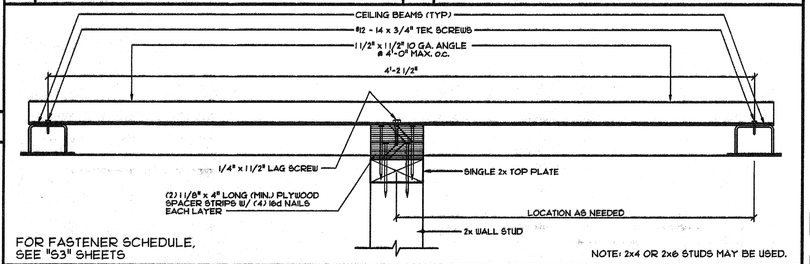
NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

9 FURRED WALL - BOTT. PLATE CONN.

SCALE: 3"=1'-0"

2

3

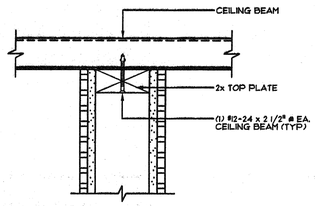


FOR FASTENER SCHEDULE, SEE "S3" SHEETS

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

5 TOP PLATE ATTACHMENT BETWEEN CEILING BEAMS

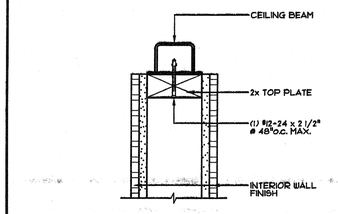
SCALE: 3"=1'-0"



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

7 TOP PLATE TO CEILING BEAM

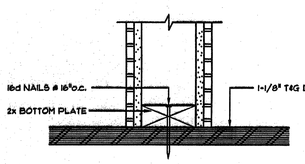
SCALE: 3"=1'-0"



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

8 TOP PLATE TO CEILING BEAM

SCALE: 3"=1'-0"



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

10 BOTTOM PLATE TO FLOOR

SCALE: 3"=1'-0"

JUN 03 2015

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STRUCTURAL ENGINEERS INC.
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www.cysinc.com

REGISTERED PROFESSIONAL ENGINEER
ARTHUR ERNEST REES
No. S2030
EXP. 9/30/15
STRUCTURAL
STATE OF CALIFORNIA

ENVIROPLEX, INC.

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

INTERIOR WALL CONNECTION DETAILS

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

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DIVISION OF THE STATE ARCHITECT
02-113910
AC FLS SS
DATE 6-9-15

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DIV. OF THE STATE ARCHITECT
03 116940
AC FLS SS
Date MAR 2 9 2016

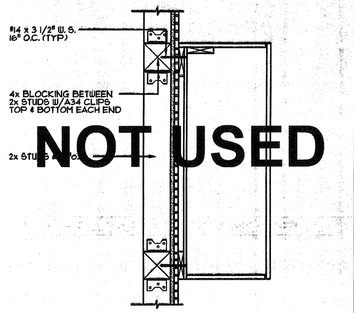
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12"x18" P.C.

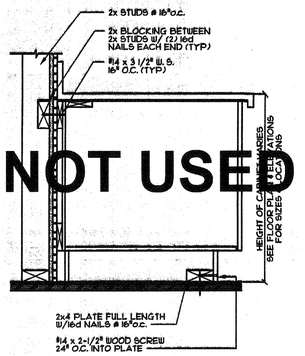
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AC FLS SS
Date MAR 29 2016



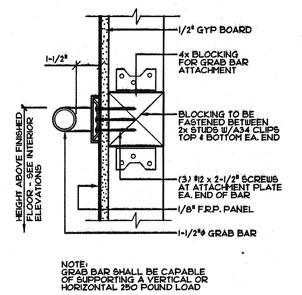
NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

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



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

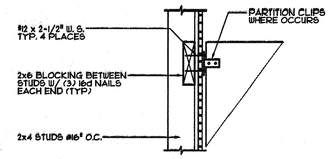
2 BASE CABINET BLOCKING DETAIL
SCALE: 1 1/2" = 1'-0"



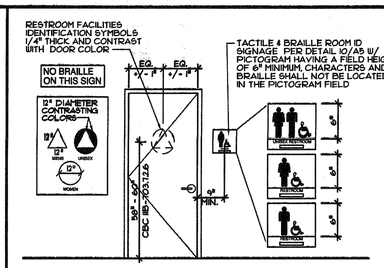
NOTE:
GRAB BAR SHALL BE CAPABLE OF SUPPORTING A VERTICAL OR HORIZONTAL 250 POUND LOAD

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

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



4 TOILET PARTITION BLOCKING
SCALE: 1 1/2" = 1'-0"

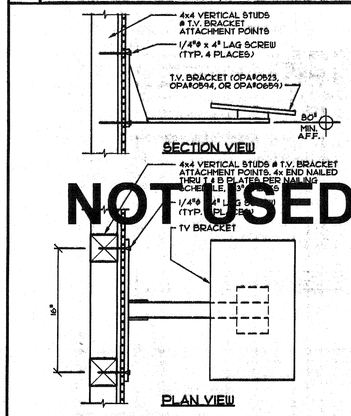


NOTE: EDGES AND CORNERS OF SIGNS SHALL BE ROUNDED, CHAMFERED OR EASED AND SHALL HAVE A MINIMUM RADIUS OF 1/8"

SEE 10/A5 FOR CHARACTER DEPTH, CASE, STYLE, PROPORTIONS, HEIGHT, STROKE THICKNESS, FINISH, CHARACTER SPACING, LINE SPACING, FORMAT, BRAILLE, POSITION, INSTALLATION HEIGHT ABOVE FINISHED FLOOR OR GROUND, AND LOCATION

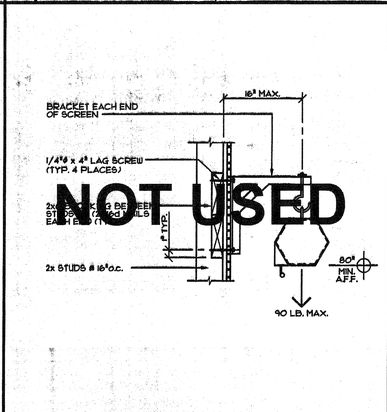
6" 6" INTERNATIONAL SYMBOL OF ACCESSIBILITY: SHALL COMPLY WITH FIGURE 11B-703.7.2.1 THE SYMBOL SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE COLOR NO. 15090 IN FEDERAL STANDARDS 595B FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE COLOR NO. 15090 IN FEDERAL STANDARDS 595B
FIGURE 11B-703.7.2.1

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



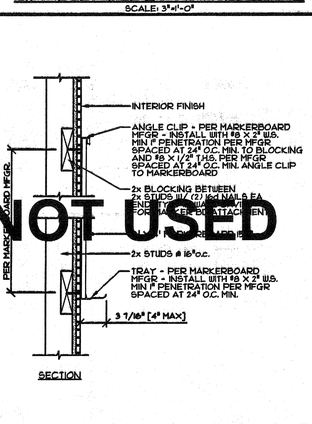
NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

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

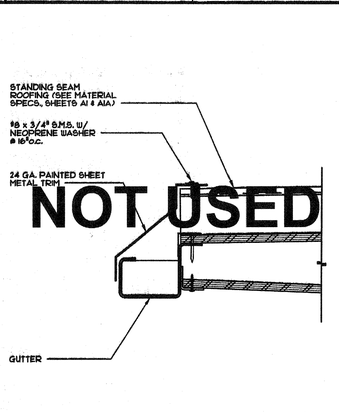


NOTE: 2x4 OR 2x6 STUDS MAY BE USED.

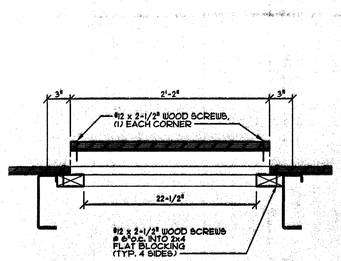
7 PROJECTOR SCREEN BLOCKING
SCALE: 1 1/2" = 1'-0"



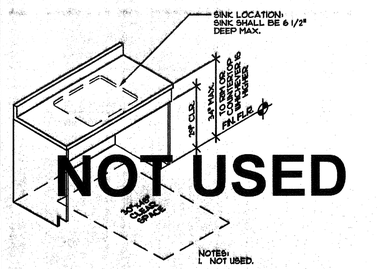
8 MARKERBOARD BLOCKING
SCALE: 1 1/2" = 1'-0"



9 ROOFING CONCEALMENT TRIM
SCALE: 3" = 1'-0"

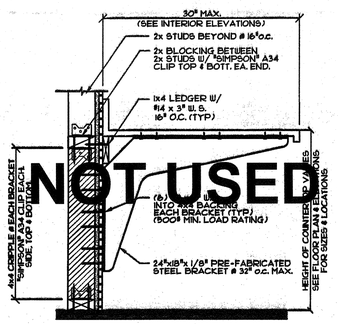


11 INTERIOR UNDERFLOOR ACCESS
SCALE: 1 1/2" = 1'-0"

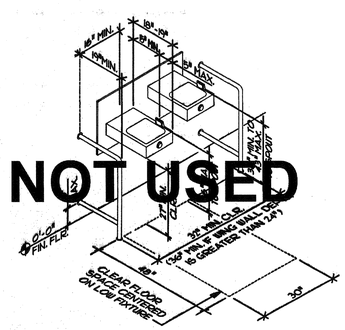


NOTES:
1. NOT USED.
2. CABINET HAS NO BASE NOR DOORS TO ALLOW FOR WHEELCHAIR ACCESS.
3. EXTEND FLOORING UNDER CABINET TO WALL.
4. NO SHARP OR ABRASIVE SURFACES UNDER LAVATORY OR COUNTER.

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



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



14 DRINKING FOUNTAIN WING WALLS
SCALE: NONE

NAMES, NUMBERS, OR LETTERS ONLY
THE MOST LOGICAL IDENTIFICATION SYSTEM FOR ROOMS OR OFFICES IS TO USE NUMBERS, LETTERS, OR COMBINATIONS OF NUMBERS AND LETTERS WHICH CAN THEN BE ARRANGED IN LOGICAL ORDER FOR EASY WAYFINDING.

12B (Braille) | LIBRARY (Braille) | EXIT (Braille) — 5/8"-2" / 3/8"-1/2" / 3/8" MIN.

Mary Jones
PRINCIPAL (Braille)

CHANGEABLE INFORMATION MAY BE INCLUDED ON A REMOVABLE INSERT

RAISED CHARACTERS:
DEPTH
SHALL BE 1/32" MINIMUM ABOVE BACKGROUND.
CASE
CHARACTERS SHALL BE UPPER CASE.
STYLE
SHALL BE SANS SERIF AND SHALL NOT BE OBLIQUE, SCRIPT, DECORATIVE OR OTHER UNUSUAL FORMS.
PROPORTIONS
WIDTH OF UPPERCASE LETTER "O" IS 60% MINIMUM AND 80% MAXIMUM OF THE HEIGHT OF UPPERCASE "I".
HEIGHT
MEASURED VERTICALLY FROM BASELINE OF THE CHARACTER SHALL BE 5/8" MINIMUM AND 2" MAXIMUM BASED ON THE UPPERCASE LETTER "I".
STROKE THICKNESS
THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15% MAXIMUM OF THE HEIGHT OF THE CHARACTER
FINISH
CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON DARK BACKGROUND OR DARK CHARACTERS ON LIGHT BACKGROUND.
CHARACTER SPACING
SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN A MESSAGE, EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8" MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM. WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/16" MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE BASE OF THE CROSS SECTIONS AND 1/8" MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE TOP OF THE CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8" MINIMUM.
LINE SPACING
SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135% MINIMUM AND 170% MAX. OF THE RAISED CHARACTER HEIGHT.
FORMAT
TEXT SHALL BE HORIZONTAL
BRAILLE:
SHALL BE CONTRACTED (GRADE 2) AND DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH CBC TABLE 11B-703.3.1. THE INDICATION OF AN UPPER-CASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF A SENTENCE, PROPER NOUNS, AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS.
POSITION
SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8" MIN AND 1" MAX FROM ANY OTHER TACTILE CHARACTERS AND 3/8" MIN FROM RAISED BORDERS AND DECORATIVE ELEMENTS.
INSTALLATION:
HEIGHT ABOVE FINISHED FLOOR OR GROUND
CHARACTERS ON SIGNS SHALL BE LOCATED 48" MIN ABOVE THE FINISHED FLOOR OR GROUND SURFACE MEASURED FROM BASELINE OF THE LOWEST BRAILLE CELLS AND 60" MAX ABOVE THE FINISHED FLOOR OR GROUND SURFACE MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS.
LOCATION
SIGNS SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE THE PROVIDED WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF A DOUBLE DOOR, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18" MIN BY 18" MIN CENTERED ON THE TACTILE CHARACTERS IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.
NOTE
ROOM IDENTIFICATION SIGNAGE AND INTERNATIONAL SYMBOLS OF ACCESSIBILITY SIGNAGE SHALL BE PROVIDED BY SCHOOL DISTRICT / OWNER AT SITE. SIGNAGE SHALL BE INSTALLED AT LOCATIONS REQUIRED BY CODE USING THE ABOVE GUIDELINES.

10 TYP. ROOM IDENTIFICATION SIGNAGE
DIVISION OF THE STATE ARCHITECT

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

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JUN 03 2015

REGISTERED PROFESSIONAL ENGINEER
PATRICK ERNEST JONES
No. 52030
EXP. 9/30/15
STRUCTURAL
STATE OF CALIFORNIA

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MISCELLANEOUS DETAILS

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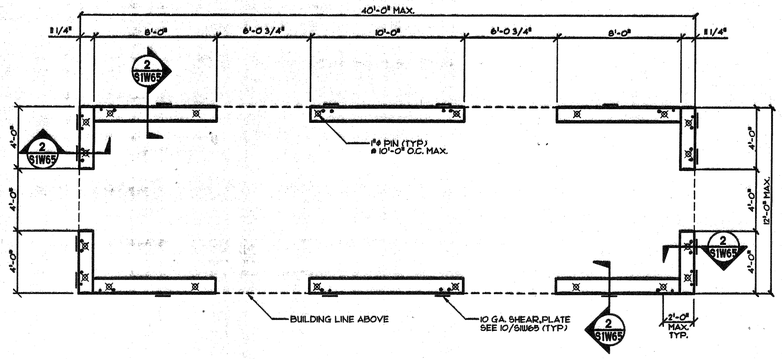
JOB No.:
DRAWN BY:
DATE:

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-113910
AC FLS SS
DATE 6-9-15

A5

12/4/2 P.C.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125456 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026

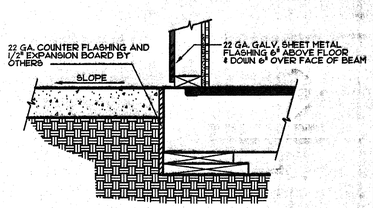


⊠ 1" Ø x 15" MIN.) PIN SEE 2/S1W65
• 3/4"Ø LAG SCREW (ALTERNATE TO 10/S1W65)

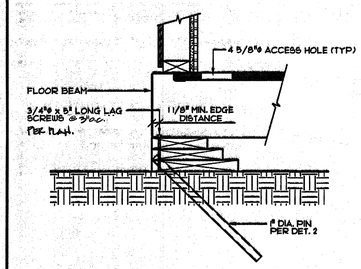
1 "65 P.S.F." WOOD FOUNDATION PLAN
SCALE: 1/4"=1'-0"

1. BOTTOM LAYER OF PIERS SHALL BE PRESSURE TREATED COASTAL DOUGLAS FIR. SUBSEQUENT LAYERS NOT IN CONTACT WITH SOIL SHALL BE UNTREATED HEM FIR No. 3 OR BETTER. FOUNDATION GRADE WOOD IN CONTACT WITH SOIL SHALL BE PRESERVATIVE TREATED AND SHALL BE STAMPED "FOR GROUND CONTACT". PRESERVATIVE TREATED MATERIAL SHALL BE VERIFIED BY A CERTIFICATE OF TREATMENT STATING, "THE MATERIAL IN THIS UNIT WAS TREATED PER CALIFORNIA BUILDING CODE, SECTION 2303.1.8.1". EACH PIECE PRESSURE TREATED MATERIAL SHALL BE STAMPED WITH THE APPROPRIATE STAMP.
2. ALL NAILS SHALL BE CORROSIVE RESISTANT NAILS IN ACCORD. WITH SECTION 2304.9.5 C.B.C. HDG W/MIN. 1.0oz / SQ. FT. ZINC. LAG SCREWS SHALL BE STAINLESS STEEL OR CAD-PLATED.
3. SHIM PIERS AS REQUIRED WITH APA RATED PLYWOOD MADE WITH EXTERIOR GLUE. SHIMS SHALL BE CONTINUOUS ACROSS LENGTH OF PIERS AS FIELD CONDITIONS ALLOW. PLYWOOD SHIMS SHALL NOT BE IN DIRECT CONTACT WITH THE SOIL.
4. SOIL BEARING PRESSURE IS ASSUMED AT 1,000 P.S.F.
5. FOUNDATION SHOWN ON (2) LAYERS OF WOOD. ANY ADDITIONAL LAYERS OF WOOD ARE TO BE STACKED AS PER STACKING DETAILS 4, 5, & 6 ON THIS SHEET.
6. VENTILATION TO MEET REQUIRMENTS PER IR 16-1. PROVIDE 1 SQ. FT. OF VENTILATION FOR EACH 150 SQ. FT. OF UNDERFLOOR AREA (PROVIDE 2" MIN. CLR.)
7. TREATED WOOD PLATES TO HAVE A MIN. SPECIFIC GRAVITY OF 0.40.
8. 1" DIAMETER PIN IS TO BE 1" STANDARD WEIGHT PIPE, HOT DIPPED GALVANIZED PER DSA IR-16-1 ITEM #4.

WOOD NOTES

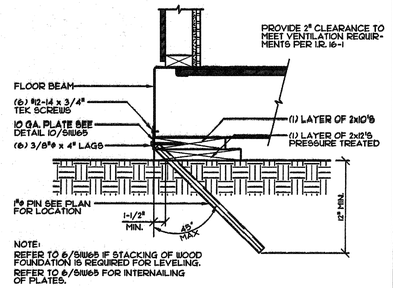


7 PERIMETER FLASHING DETAIL
SCALE: 1 1/2"=1'-0"



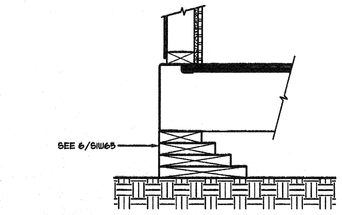
8 ALTERNATE PERIMETER DETAIL
SCALE: 1 1/2"=1'-0"

2 PERIMETER PIER DETAIL
SCALE: 1 1/2"=1'-0"



NOTE:
REFER TO 6/S1W65 IF STACKING OF WOOD FOUNDATION IS REQUIRED FOR LEVELING.
REFER TO 6/S1W65 FOR INTERNAILING OF PLATES.

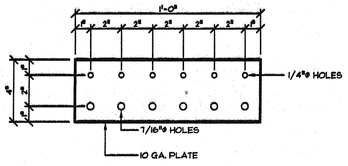
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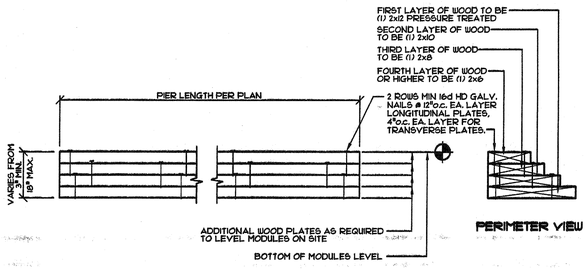
NOTE: THIS DETAIL FOR REFERENCE ONLY SEE DETAIL 6/S1W65 FOR NAILING DETAIL
SEE 2/S1W65 U.O.N.

4 PERIMETER PIER STACKING DETAIL
SCALE: 1 1/2"=1'-0"

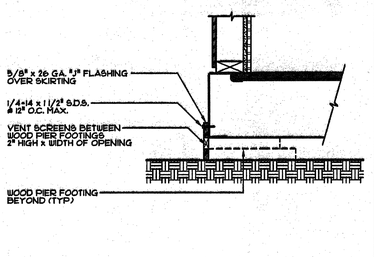
5



10 SHEAR PLATE DETAIL
SCALE: 3"=1'-0"



6 INTER-NAILING OF WOOD PIERS
SCALE: 1 1/2"=1'-0"



9 PERIMETER SKIRTING DETAIL
SCALE: 1 1/2"=1'-0"

11

DIVISION OF THE STATE ARCHITECT
FOR USE:
1) 20psf ROOF LIVE/SNOW LOAD W/ 65psf FLOOR LIVE LOAD.
2) STANDARD BI-PITCH ROOF AND STANDARD SHED ROOF ONLY.
3) FOR ALLOWABLE EXTERIOR FINISHES, SEE "OPTION COMBINATION TABLE" SHEET A0.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
03 116940
AC W FLS SS
Date MAR 2 9 2016

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

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JUN 03 2015

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No. 82030
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65 P.S.F. WOOD FOUNDATION PLAN, FOOTING DETAILS, NOTES

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DATE:

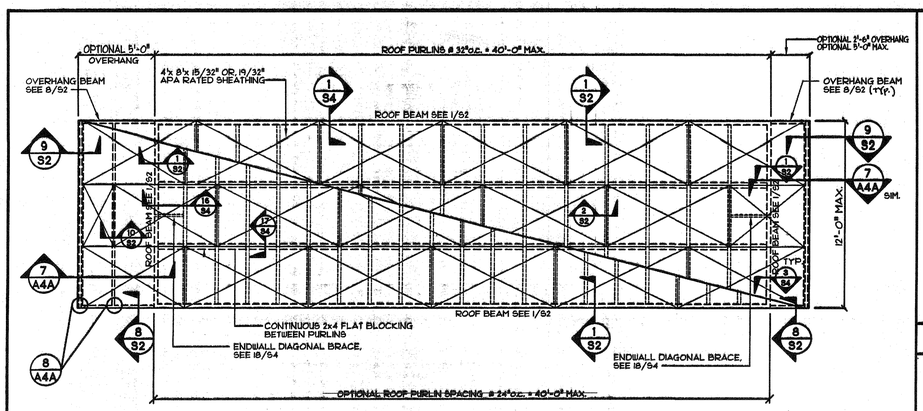
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LOW SEISMIC

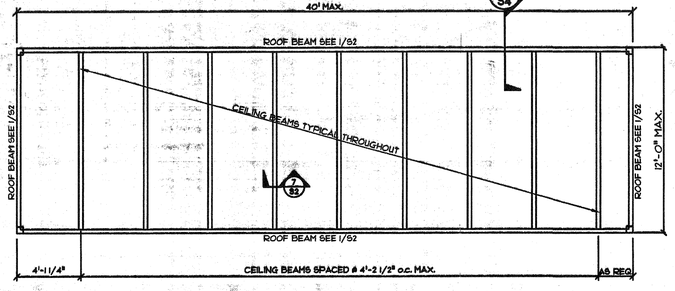
S1W65

12x40 P.C.

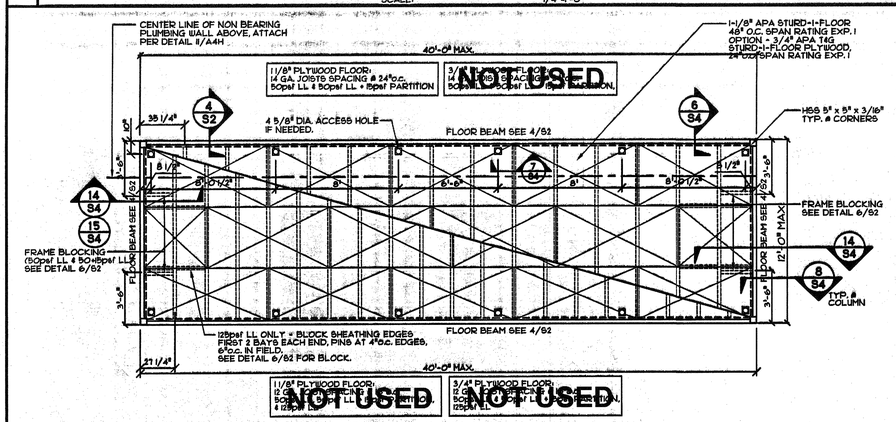
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DATE: 07/01/2026



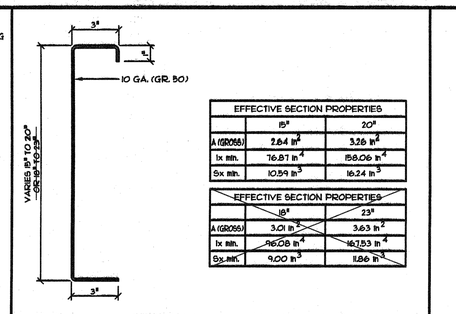
13 ROOF FRAMING PLAN
SCALE: 1/4"=1'-0"



14 CEILING FRAMING PLAN
SCALE: 1/4"=1'-0"



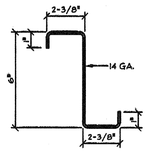
15 FLOOR FRAMING PLAN
SCALE: 1/4"=1'-0"



EFFECTIVE SECTION PROPERTIES		
	15"	20"
A (GROSS)	2.64 in²	3.26 in²
Ix min.	76.87 in⁴	158.06 in⁴
Sx min.	10.59 in³	16.24 in³

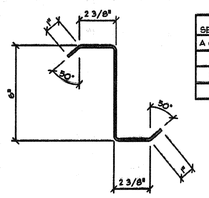
EFFECTIVE SECTION PROPERTIES		
	18"	23"
A (GROSS)	3.01 in²	3.63 in²
Ix min.	96.08 in⁴	161.53 in⁴
Sx min.	9.00 in³	11.86 in³

1 ROOF BEAM SECTION
SCALE: 3"=1'-0"



EFFECTIVE SECTION PROPERTIES	
A (GROSS)	0.87 in²
Ix min.	4.79 in⁴
Sx min.	1.60 in³

2 ROOF PURLIN SECT.
SCALE: 3"=1'-0"

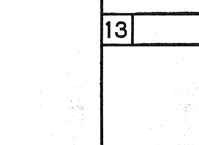


EFFECTIVE SECTION PROPERTIES	
A (GROSS)	0.818 in²
Ix min.	5.06 in⁴
Sx min.	1.681 in³
GA.	14

3 ALT. ROOF PURLIN / FLOOR JOIST
SCALE: 3"=1'-0"

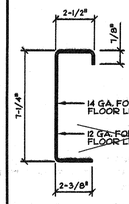
JUN 03 2015

FOR USE WITH:
ROOFS - ALL CONDITIONS
FLOORS - 24"o.c. FOR CLASSROOM OCCUPANCIES ONLY, 19.2"O.C. FOR ALL OTHER OCCUPANCIES



EFFECTIVE SECTION PROPERTIES		
A (GROSS)	1.93 in²	2.74 in²
Ix min.	20.57 in⁴	28.74 in⁴
Sx min.	4.13 in³	5.79 in³
GA.	10	7

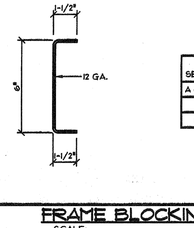
4 FLOOR BEAM SECTION
SCALE: 3"=1'-0"



EFFECTIVE SECTION PROPERTIES	
A (GROSS)	0.89 in²
Ix min.	6.94 in⁴
Sx min.	2.03 in³
GA.	14

EFFECTIVE SECTION PROPERTIES	
A (GROSS)	1.26 in²
Ix min.	9.59 in⁴
Sx min.	2.80 in³
GA.	12

5 FLOOR JOIST SECTION
SCALE: 3"=1'-0"



EFFECTIVE SECTION PROPERTIES	
A (GROSS)	0.89 in²
Ix min.	1.58in⁴
Sx min.	.79in³

6 FRAME BLOCKING SECTION
SCALE: 3"=1'-0"

1. ALL LIGHT GAGE STEEL SHALL BE ASTM A101 GRADE 36, UNLESS OTHERWISE NOTED
2. STRUCTURAL STEEL TUBING SHALL BE ASTM A500 GRADE B Fy=46
3. ALL STRUCTURAL STEEL PLATES, ANGLES, CHANNELS, BARS & MISC. SHAPES SHALL CONFORM TO ASTM A36, UNLESS OTHERWISE NOTED.
4. ALL MACHINE BOLTS SHALL BE ASTM A307.
5. WELDING SHALL BE DONE PER AWS D 1.8 - D6.3.
6. WELDING INSPECTION TO BE PER C.B.C. SECTION 1705A.2.3
7. SEE TESTS AND INSPECTIONS REPORT SHEET A0 FOR REQUIREMENTS.
8. LIGHT GAGE METAL & FRAMING THICKNESSES

GAGE	DESIGN THICKNESS	MIN. DELIVERED THICKNESS
7 GA. STEEL	0.1793"	0.170"
10 GA. STEEL	0.1240"	0.118"
12 GA. STEEL	0.1017"	0.0966"
14 GA. STEEL	0.0713"	0.0677"

R = 3/16" MAX.
TYPICAL CORNER RADIUS

9. MINIMUM STEEL THICKNESS SHALL NOT BE LESS THAN 95% OF THE DESIGN THICKNESS PER AISI - GENERAL AND AISI - NAS.

STEEL SPECIFICATION

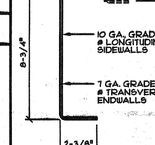
1. ALL STRUCTURAL PLYWOOD SHALL BE MANUFACTURED TO PRODUCT STANDARD DOC PS-1 AND INSPECTED AND GRADE MARKED AT THE MILL BY AN APPROVED QUALITY CONTROL AGENCY SUCH AS APA OR TECO.
2. ROOF SHEATHING SHALL BE 4'x 8'x 15/32" GRADE MARKED 32/16 SPAN INDEX, EXP. 1 OR 19/32" GRADE MARKED 40/20 SPAN INDEX, EXP1.
3. FLOOR SHEATHING SHALL BE 4'x 8'x 1-1/8" T & G APA OR TECO RATED UNDERLAYMENT GRADE STURD-I-FLOOR OR EQUAL, SPAN RATING = 48"
   OR
   4'x 8'x 3/4" T & G APA OR TECO RATED UNDERLAYMENT GRADE STURD-I-FLOOR OR EQUAL, SPAN RATING = 24"
4. WALL SHEATHING SHALL BE 3/8" HARD BOARD SIDING APA EXTERIOR TYPE 303 GROUP 1 MDO., EXTERIOR GROUP II, OR 1/2" APA RATED CDX PLYWOOD.
5. SEE FASTENER SCHEDULE, SHEET S3FA".

SHEATHING / PLYWOOD SPECIFICATION

DIVISION OF THE STATE ARCHITECT

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DIV. OF THE STATE ARCHITECT
03 116940
AC ✓ FLS SS
Date MAR 2 9 2016

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



EFFECTIVE SECTION PROPERTIES	
A (GROSS)	1.05 in²
Ix min.	0.66 in⁴
Iy min.	1.08 in⁴
Sx min.	0.829 in³
Sy min.	0.824 in³

7 CEILING BEAM SECTION
SCALE: 3"=1'-0"

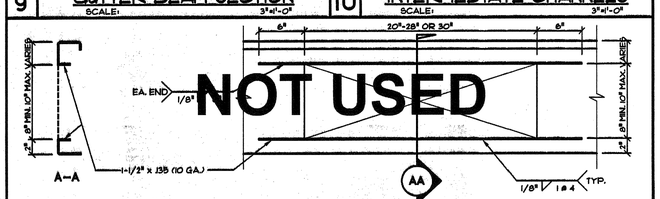
EFFECTIVE SECTION PROPERTIES	
A (GROSS)	0.85 in²
Ix min.	1.26 in⁴
Sx min.	0.97 in³

8 OVERHANG BEAM
SCALE: 3"=1'-0"

EFFECTIVE SECTION PROPERTIES	
A (GROSS)	.89in²
Ix min.	1.58in⁴
Sx min.	.79in³

9 GUTTER BEAM SECTION
SCALE: 3"=1'-0"

10 INTERMEDIATE CHANNELS
SCALE: 3"=1'-0"



11 HVAC PENETRATION @ ENDWALL ROOF BEAM
SCALE: 1-1/2"=1'-0"

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REGISTERED PROFESSIONAL ENGINEER
ARTHUR ERNEST HESS
No. 52030
EXP. 9/30/15
STRUCTURAL
STATE OF CALIFORNIA

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BI-PITCH ROOF, CEILING, & FLOOR FRAMING PLANS, STRUCTURAL STEEL PROPERTIES, NOTES

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

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02-113910
AC ✓ FLS SS
DATE 6-9-15
2013 - 15HR

LOW SEISMIC

S2

12MAY P.C.

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APP: 03-125456 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/01/2026

FOR BUILDINGS ON WOOD FOUNDATIONS

JAACO - .145 x 1 3/4" PIN (ICC ESR-2961)

SUBFLOORING

1-1/8" APA RATED T&G STURD-I-FLOOR TO STEEL BEAMS & JOISTS

	50 PSF	65 PSF	125 PSF
LOW SEISMIC	PER DIAGRAM FWJ-1		PER DIAGRAM FWJ-2
HIGH SEISMIC	PER DIAGRAM FWJ-3		PER DIAGRAM FWJ-4

DIAGRAM - FWJ-1

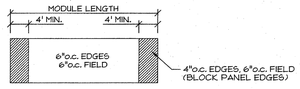


DIAGRAM - FWJ-2

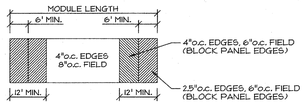


DIAGRAM - FWJ-3

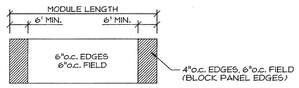
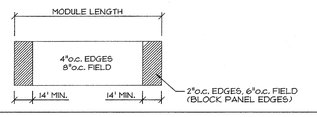
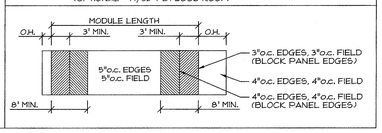


DIAGRAM - FWJ-4



ROOF

15/32" APA RATED PLYWOOD TO PURLINS & BEAMS
(OPTIONAL - 19/32" PLYWOOD ROOF)



FOR BUILDINGS ON CONCRETE FOUNDATIONS

JAACO - .145 x 1 3/4" PIN (ICC ESR-2961)

SUBFLOORING

1-1/8" APA RATED T&G STURD-I-FLOOR TO STEEL BEAMS & JOISTS

	50 PSF	65 PSF	125 PSF
LOW SEISMIC	PER DIAGRAM FCJ-1		PER DIAGRAM FCJ-2
HIGH SEISMIC	PER DIAGRAM FCJ-3		PER DIAGRAM FCJ-4

DIAGRAM - FCJ-1

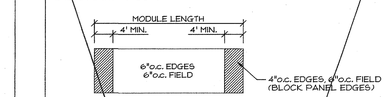


DIAGRAM - FCJ-2

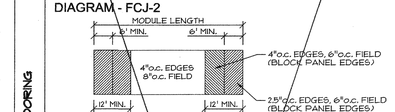


DIAGRAM - FCJ-3

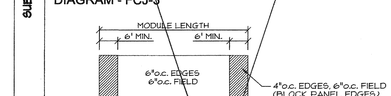
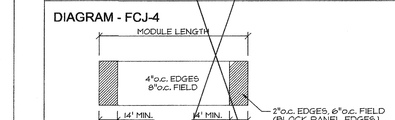


DIAGRAM - FCJ-4



SUBFLOORING WITH LEVELROCK

3/4" USG "LEVELROCK" FLOOR TOPPING OVER 3/8" SOUND REDUCTION BOARD OVER 3/4" T&G STURD-I-FLOOR PLY SHEATHING

	50 PSF	65 PSF	125 PSF
LOW SEISMIC	PER DIAGRAM FCJ-5		
HIGH SEISMIC	PER DIAGRAM FCJ-6		

DIAGRAM - FCJ-5

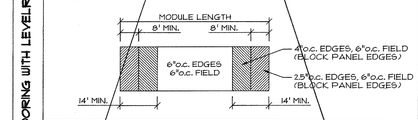
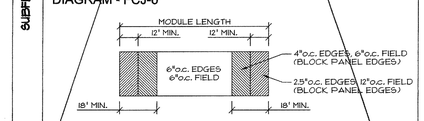
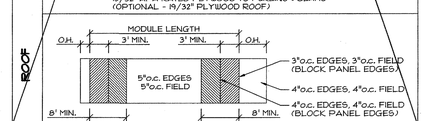


DIAGRAM - FCJ-6



ROOF

15/32" APA RATED PLYWOOD TO PURLINS & BEAMS
(OPTIONAL - 19/32" PLYWOOD ROOF)



FOR BUILDINGS ON WOOD FOUNDATIONS

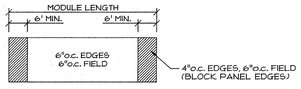
SCREWS - #10 S.M.S. (AISI S213-07, SECTION D)

SUBFLOORING

1-1/8" APA RATED T&G STURD-I-FLOOR TO STEEL BEAMS & JOISTS

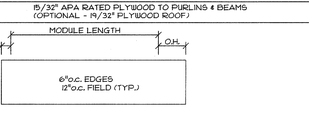
	50 PSF	65 PSF	125 PSF
LOW SEISMIC	6"o.c. EDGES 12"o.c. FIELD		
HIGH SEISMIC	6"o.c. EDGES 12"o.c. FIELD		PER DIAGRAM FWS-1

DIAGRAM - FWS-1



ROOF

15/32" APA RATED PLYWOOD TO PURLINS & BEAMS
(OPTIONAL - 19/32" PLYWOOD ROOF)



FOR BUILDINGS ON CONCRETE FOUNDATIONS

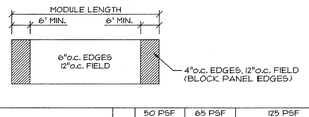
SCREWS - #10 S.M.S. (AISI S213-07, SECTION D)

SUBFLOORING

1-1/8" APA RATED T&G STURD-I-FLOOR TO STEEL BEAMS & JOISTS

	50 PSF	65 PSF	125 PSF
LOW SEISMIC	6"o.c. EDGES 12"o.c. FIELD		
HIGH SEISMIC	6"o.c. EDGES 12"o.c. FIELD		PER DIAGRAM FCS-1

DIAGRAM - FCS-1



SUBFLOORING WITH LEVELROCK

3/4" USG "LEVELROCK" FLOOR TOPPING OVER 3/8" SOUND REDUCTION BOARD OVER 3/4" T&G STURD-I-FLOOR PLY SHEATHING

	50 PSF	65 PSF	125 PSF
LOW SEISMIC	PER DIAGRAM FCS-2		
HIGH SEISMIC	PER DIAGRAM FCS-3		

DIAGRAM - FCS-2

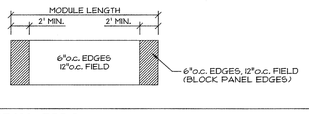
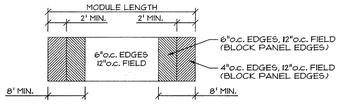
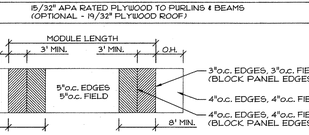


DIAGRAM - FCS-3



ROOF

15/32" APA RATED PLYWOOD TO PURLINS & BEAMS
(OPTIONAL - 19/32" PLYWOOD ROOF)



WALL TO FRAME FASTENING:

- WALL PANEL TOP PLATE TO PERIMETER ROOF BEAM ..... (1) 1/4"ø x 2" LAG SCREWS FROM ROOF BEAM BOTT. FLANGE INTO TOP PLATE @ 18"o.c. MAX.
- WALL PANEL BOTTOM PLATE TO PERIMETER FLOOR BEAM. ..... 1/4"-20 TEKS/4 SCREWS @ 16"o.c. FROM BOTT. PLATE INTO FLOOR BEAM TOP FLANGE
- WALL PANEL SIDE STUDS TO TS CORNER COLUMNS ..... #12-24 x 2 1/2" S.D.S. @ 16"o.c. FROM SIDE STUD INTO STEEL CORNER COLUMN.
- TOP AND BOTTOM PLATE TO STUDS AND KING STUDS ..... (3) .135 x 3 1/4" LONG MACHINE NAIL
- DOUBLE STUDS, TRIMMERS, SILLS AND CRIPPLES STICH NAILED ..... .135 x 3 1/4" LONG MACHINE NAILS @ 8"o.c.
- CRIPPLES, TRIMMERS END NAILED TO PLATES AND SILLS. ..... (3) .135 x 3 1/4" LONG MACHINE NAIL EA. END
- CRIPPLES, TRIMMERS NAILED TO HEADERS. ..... (3) .135 x 3 1/4" LONG MACHINE NAIL
- ALL HANGERS, STRAPS, CLIPS, ETC. ..... NAILED AS PER MANUFACTURERS SPECS.
- FASTENING CONDITIONS NOT ADDRESSED ABOVE ..... TABLE 2304.9.1 2013 C.B.C.

PLYWOOD NAILING & NOTES:

1. DO NOT CRUSH PLYWOOD FACE PLY (OUTER VENEER LAYER) BY OVER DRIVING SCREWS, MACHINE, OR HAND NAILS.
2. UNDER DRIVEN NAILS SHALL BE CORRECTED BY HAND SET.
3. REMOVE AND REPLACE NAILS DRIVEN THAT MISS FRAMING OR SUPPORT.
4. ALL CORRECTIVE NAILING SHALL BE DONE BY HAND NAILING.
5. H.D.G.= HOT DIPPED GALVANIZED WITH MINIMUM COATING OF 1 OZ PER SQ. F.T OF ZINC. OR MECHANICALLY GALVANIZED PER ASTM. F-1667.

SIDING	
EXTERIOR SIDING	INTO 2x4 OR 2x6 WOOD STUDS; .131" x 2 1/2" @ 6"o.c. PANEL EDGES, 12"o.c. IN FIELD. (H.D.G. OR MECH. GALV. NAILS, PER ASTM F-1667). INTO STEEL COLUMNS; #12-24 x 2" S.D.S. @ 24"o.c.

GYPSUM WALLBOARD	
1/2" GYP. BOARD TO 2x4 OR 2x6 STUDS	.121 x 1 1/2" COATED NAILS @ 8"o.c. EDGES, 8"o.c. IN FIELD.

OVERHANG SOFFIT	
1/2" APA RATED SHEATHING	#8 x 1" S.M.S. @ 6"o.c. EDGES, 12"o.c. IN FIELD (PRE-PUNCHED HOLES IN STEEL.)

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AC ✓ FLS SS 3/1
Date MAR 2 9 2016

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A separate project application for construction is required.

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(408) 324-1122 Fax 324-1123
www.cys-se.com

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FASTENING SCHEDULE & NOTES

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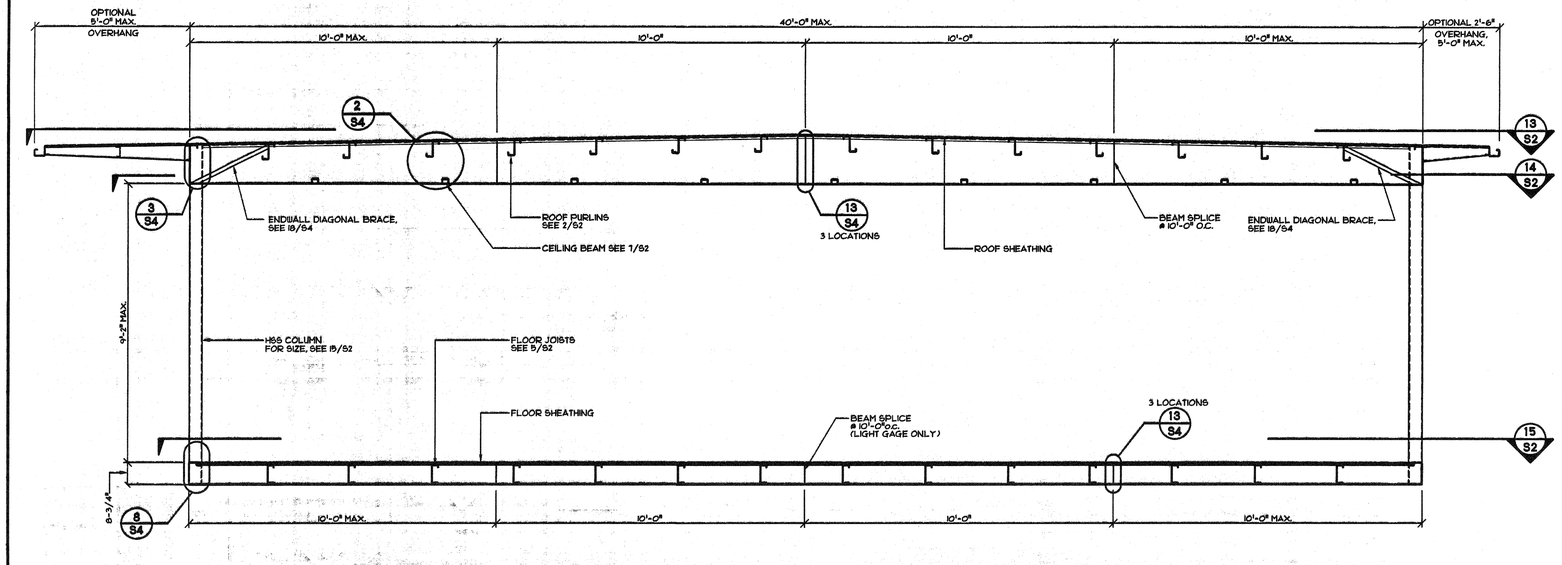
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AC ___ FLS ___ SS ✓
DATE 6-9-15
2013 - 12x40

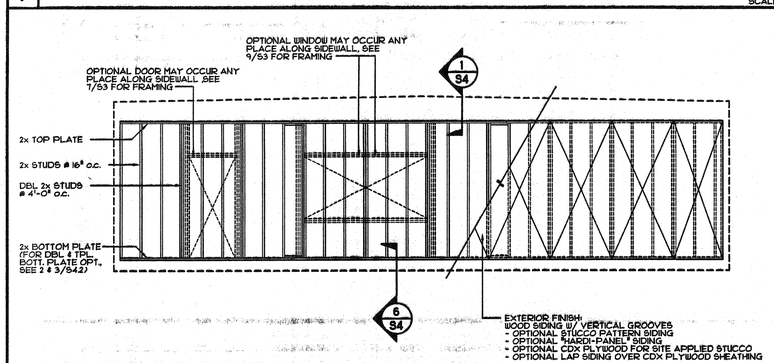
S3FA

12x40 P.C.

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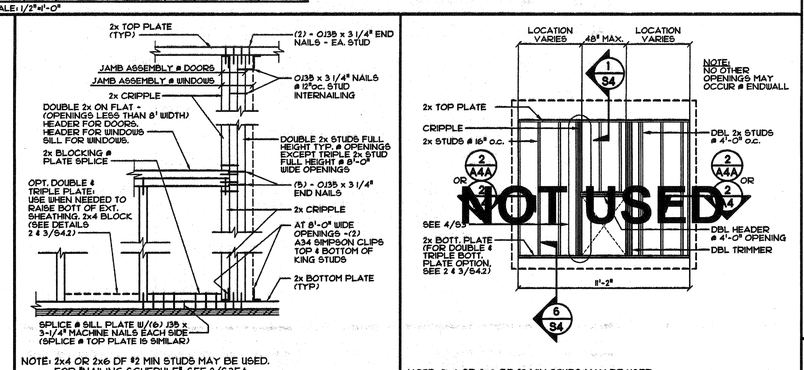


1 **TYPICAL LONGITUDINAL FRAME SECTION - BI-PITCH ROOF**
SCALE: 1/2"=1'-0"



NOTE: 2x4 OR 2x6 DF #2 MIN STUDS MAY BE USED.

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



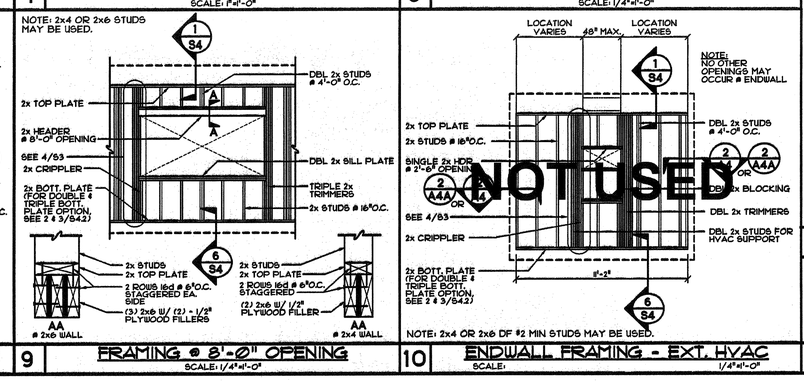
NOTE: 2x4 OR 2x6 DF #2 MIN STUDS MAY BE USED. FOR "NAILING SCHEDULE", SEE 2/S3FA

4 **STUD NAILING DETAIL**
SCALE: 1"=1'-0"

NOTE: 2x4 OR 2x6 DF #2 MIN STUDS MAY BE USED.

NOT USED

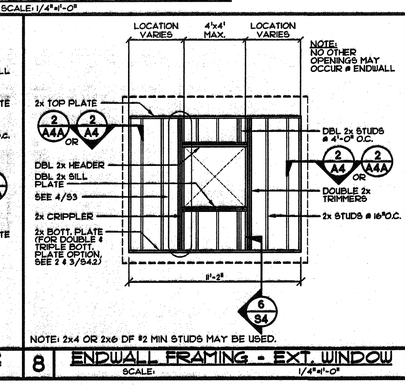
5 **ENDWALL FRAMING - INTERIOR HVAC**
SCALE: 1/4"=1'-0"



NOTE: 2x4 OR 2x6 DF #2 MIN STUDS MAY BE USED.

7 **ENDWALL FRAMING - EXT. DOOR**
SCALE: 1/4"=1'-0"

8 **ENDWALL FRAMING - EXT. WINDOW**
SCALE: 1/4"=1'-0"



NOTE: 2x4 OR 2x6 DF #2 MIN STUDS MAY BE USED.

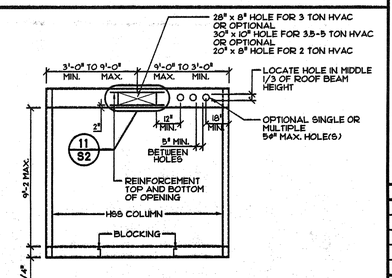
9 **FRAMING @ 8'-0" OPENING**
SCALE: 1/4"=1'-0"

NOTE: 2x4 OR 2x6 DF #2 MIN STUDS MAY BE USED.

NOT USED

10 **ENDWALL FRAMING - EXT. HVAC**
SCALE: 1/4"=1'-0"

NOTE: 2x4 OR 2x6 DF #2 MIN STUDS MAY BE USED.



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

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

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DATE:

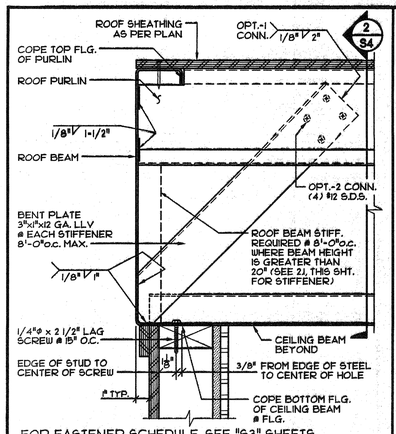
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S3

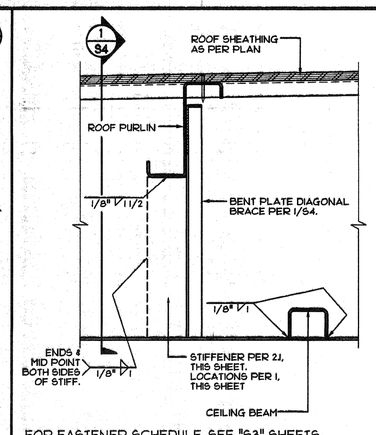
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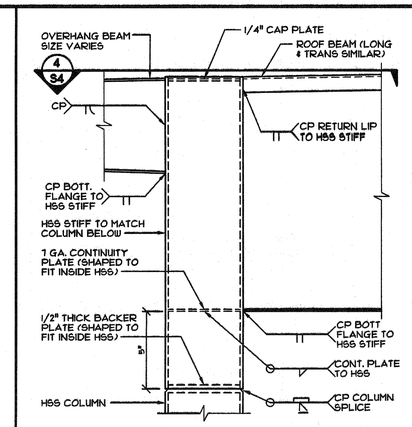
FOR FASTENER SCHEDULE, SEE "S3" SHEETS

1 ROOF BEAM SECTION @ PURLIN
SCALE: 3"=1'-0"

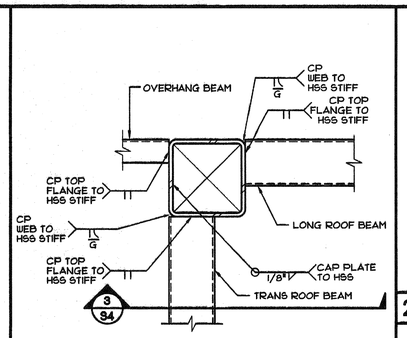


FOR FASTENER SCHEDULE, SEE "S3" SHEETS

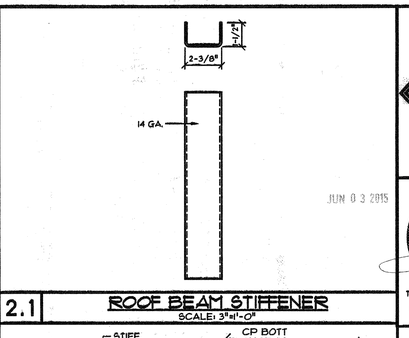
2 PURLIN TO STIFFENER AT BEAM
SCALE: 3"=1'-0"



3 ROOF BEAM SECTION @ CORNER
SCALE: 3"=1'-0"

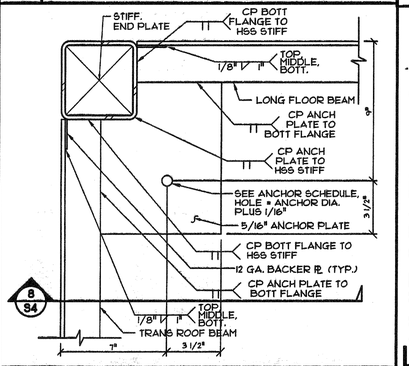


4 ROOF BEAM TOP FLANGE
SCALE: 3"=1'-0"

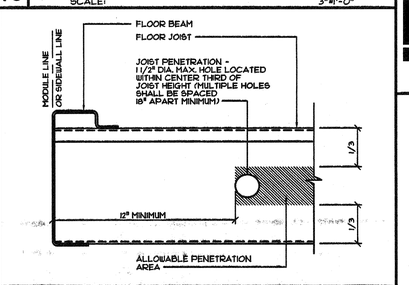


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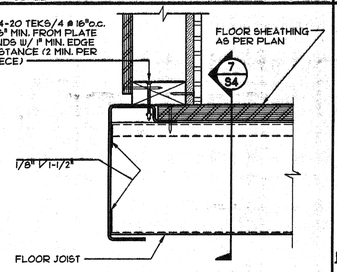
2.1 ROOF BEAM STIFFENER
SCALE: 3"=1'-0"



10 FLOOR BEAM BOTTOM FLANGE
SCALE: 3"=1'-0"

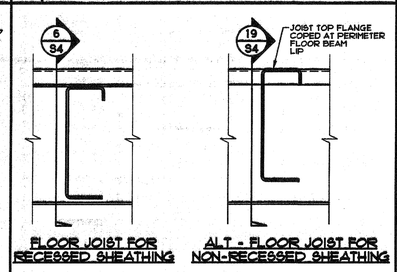


19 FLOOR JOIST PENETRATION
SCALE: 3"=1'-0"



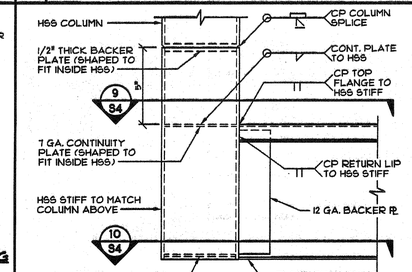
FOR FASTENER SCHEDULE, SEE "S3" SHEETS

6 FLOOR BEAM @ JOIST CONNECTION
SCALE: 3"=1'-0"

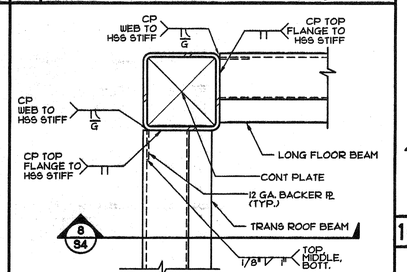


FOR CLARITY, FLOOR SHEATHING IS NOT SHOWN.

7 JOIST TO BEAM CONNECTION
SCALE: 3"=1'-0"

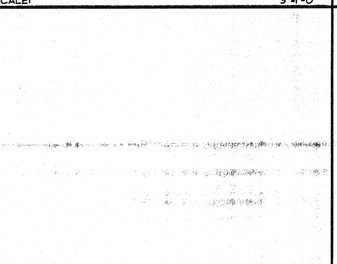


8 FLOOR BEAM SECTION @ CORNER
SCALE: 3"=1'-0"

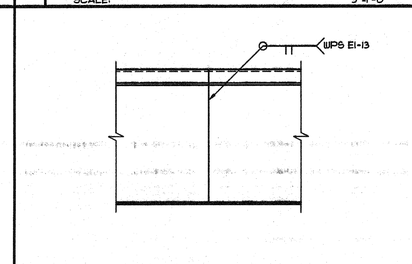


9 FLOOR BEAM TOP FLANGE
SCALE: 3"=1'-0"

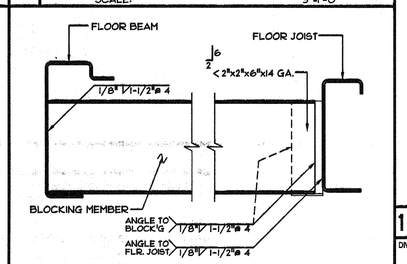
11



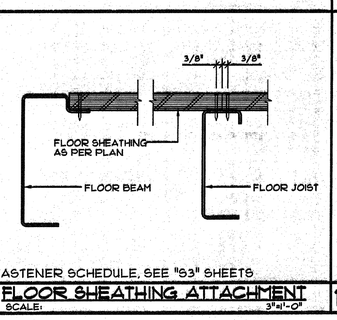
12 ALT. FLOOR BEAM @ JOIST CONN.
SCALE: 3"=1'-0"



13 BEAM SPLICE DETAIL
SCALE: 3"=1'-0"

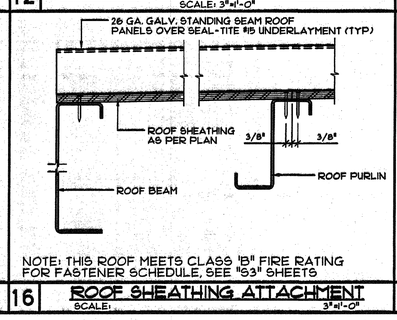


14 BLOCKING MEMBER CONNECTION
SCALE: 3"=1'-0"



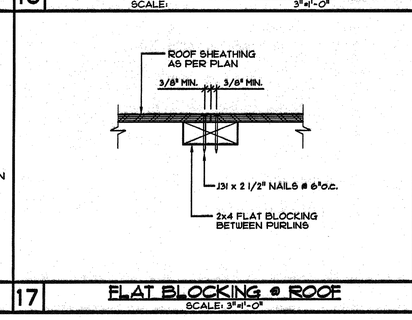
FOR FASTENER SCHEDULE, SEE "S3" SHEETS

15 FLOOR SHEATHING ATTACHMENT
SCALE: 3"=1'-0"

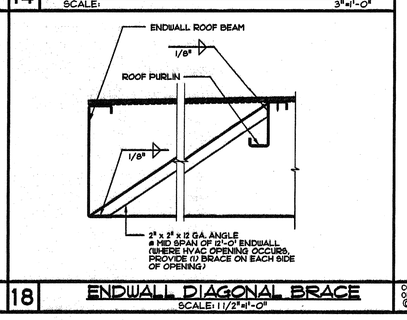


NOTE: THIS ROOF MEETS CLASS "B" FIRE RATING
FOR FASTENER SCHEDULE, SEE "S3" SHEETS

16 ROOF SHEATHING ATTACHMENT
SCALE: 3"=1'-0"



17 FLAT BLOCKING @ ROOF
SCALE: 3"=1'-0"



18 ENDWALL DIAGONAL BRACE
SCALE: 1 1/2"=1'-0"

DIVISION OF THE STATE ARCHITECT

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Date MAR 2 9 2016

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(916) 920-0201 (916) 920-1226 Fax
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REGISTERED PROFESSIONAL ENGINEER
PATTERSON ERNEST JOSEPH
No. 52030
EXP. 9/30/15
STRUCTURAL
STATE OF CALIFORNIA

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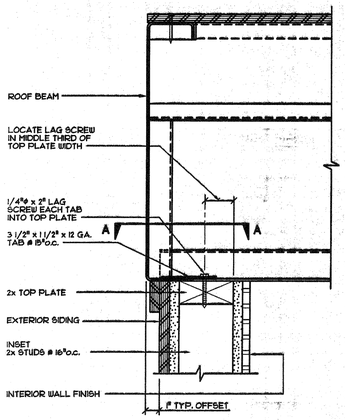
JOB No.:
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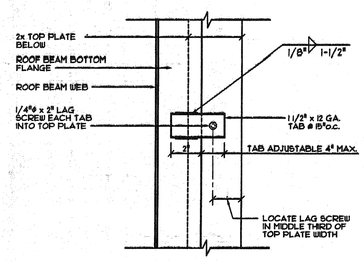
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DIVISION OF THE STATE ARCHITECT
02-113910
AC ✓ FLS SS ✓
DATE 6-1-15

S4

12"x18" P.C.

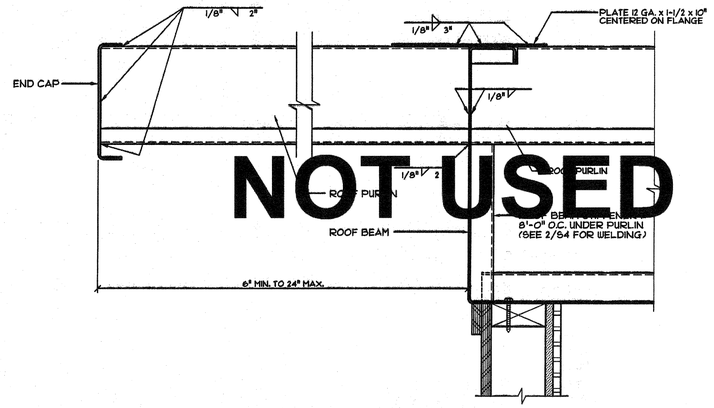
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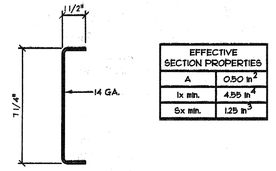
PLAN VIEW "A-A"

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



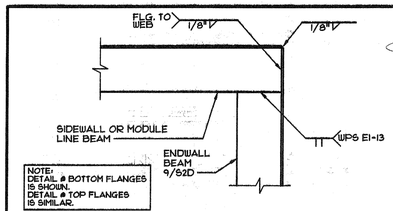
NOT USED

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

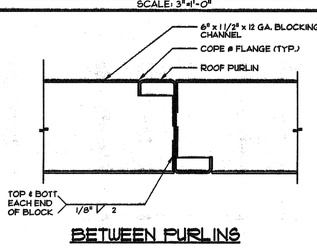


EFFECTIVE SECTION PROPERTIES	
A	0.50 in^2
Ix min.	4.55 in^4
Sx min.	1.25 in^3

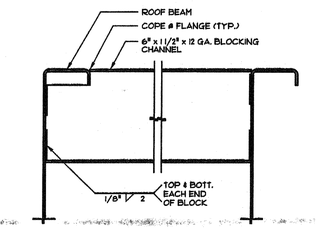
END CAP SECTION PROPERTIES



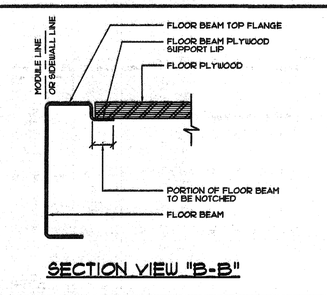
15 TYP. CHANNEL BEAM @ CORNERS
SCALE: 3"=1'-0"



BETWEEN PURLINS

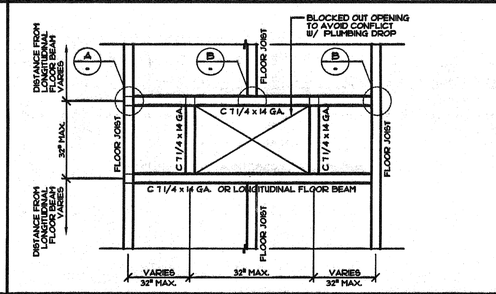


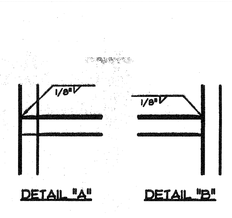
BETWEEN BEAMS



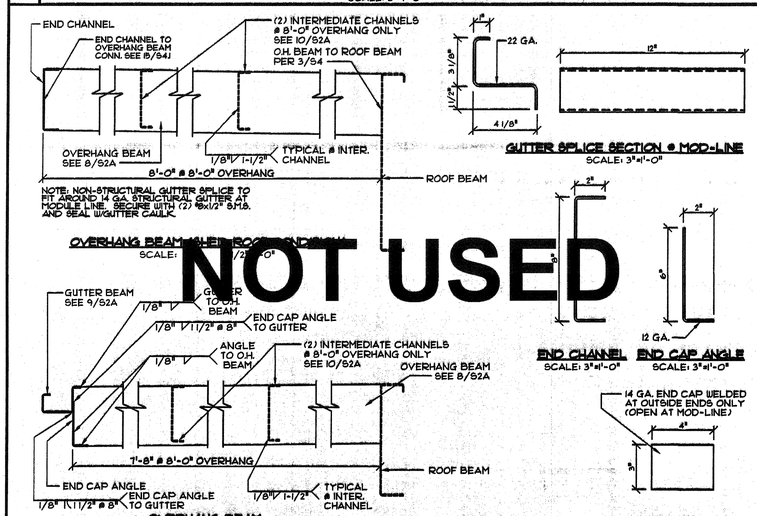
SECTION VIEW "B-B"

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



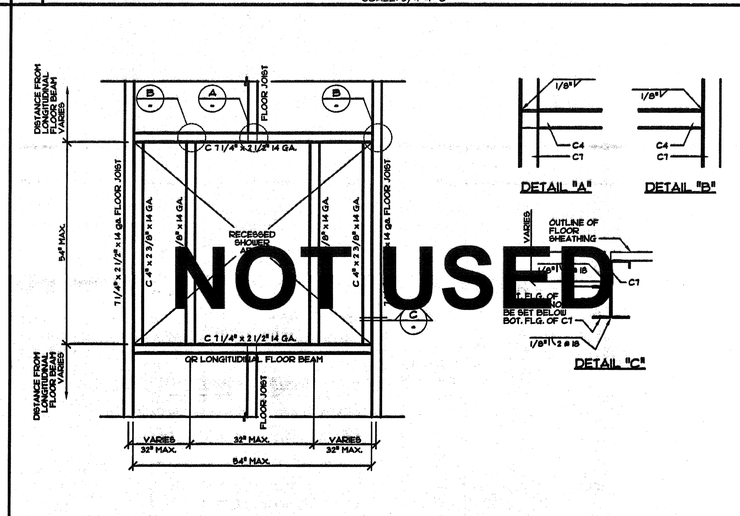


4 FLOOR JOIST PLUMBING BLOCK-OUT
SCALE: 3/4"=1'-0"



NOT USED

NOT USED



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

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

11 TYP. CHANNEL BLOCK INSTALLATION
SCALE: 3"=1'-0"

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Date MAR 7 8 2018

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JUN 03 2015

REGISTERED PROFESSIONAL ENGINEER
ARTHUR "ERNEST" CYS
No. S2030
EXP. 9/30/15
STRUCTURAL
STATE OF CALIFORNIA

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ALTERNATE STRUCTURAL DETAILS

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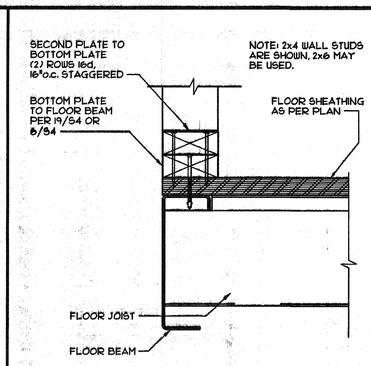
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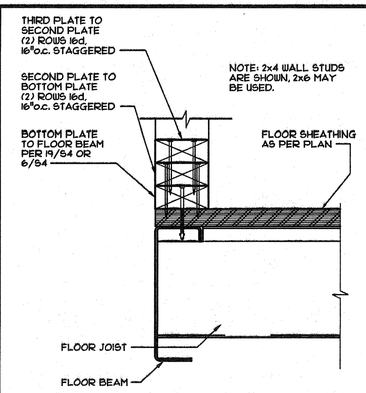
S4.1

12x40' P.C.

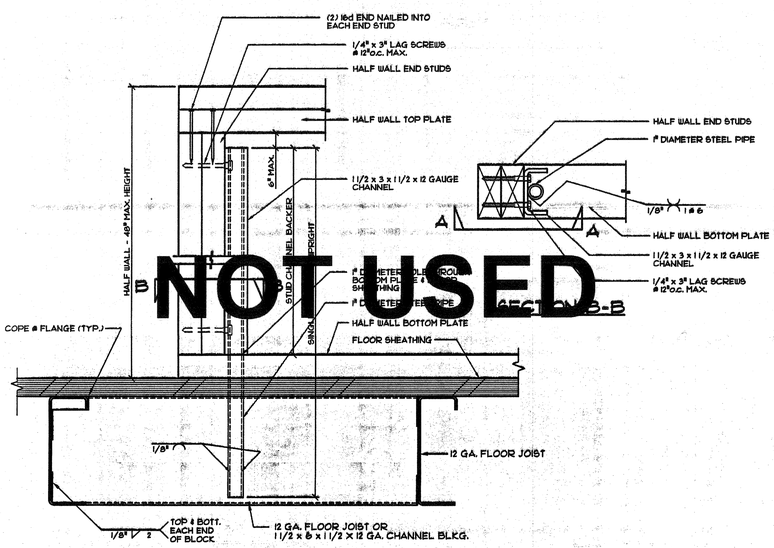
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2 DOUBLE BOTTOM PLATE OPTION
SCALE: 3"=1'-0"



3 TRIPLE BOTTOM PLATE OPTION
SCALE: 3"=1'-0"



NOT USED

SECTION A-A

SECTION B-B

11 HALF WALL STABILIZER BRACKET
SCALE: 3"=1'-0"

JUN 0 3 2015

10.1

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(916) 444-3500 Fax (916) 444-1709
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REGISTERED PROFESSIONAL ENGINEER
ERNESTO CASTRO
No. S2030
EXP. 6/30/15
STRUCTURAL
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S4.2

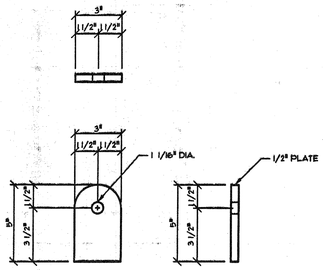
12"x40" P.C.

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DATE: 07/01/2026

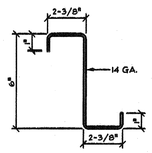
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03 116940
AC FLS SS
Date MAR 2 9 2016

EFFECTIVE SECTION PROPERTIES	
	6 1/2"
A (GROSS)	1.23 in^2
Ix min.	6.88 in^4
Sx min.	1.34 in^3

4 DETAIL - CANOPY PERIM. CHAN.
SCALE: 3"=1'-0"

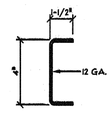


3 DETAIL - UPPER CLEVIS PLATE
SCALE: 3"=1'-0"



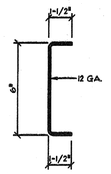
EFFECTIVE SECTION PROPERTIES	
A (GROSS)	0.87 in^2
Ix min.	4.79 in^4
Sx min.	1.60 in^3

10 DETAIL - "Z" PURLIN
SCALE: 3"=1'-0"



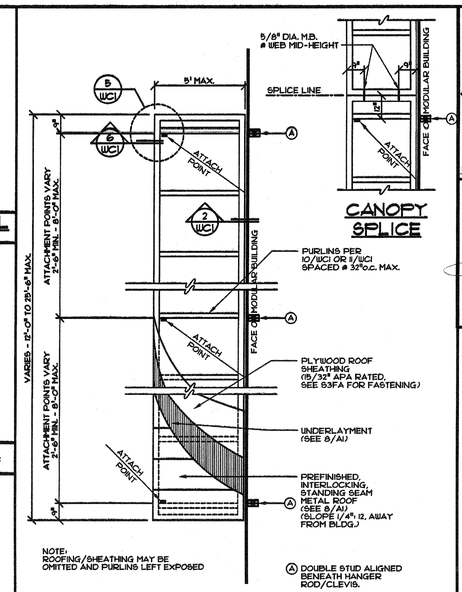
EFFECTIVE SECTION PROPERTIES	
A (GROSS)	.69in^2
Ix min.	1.58in^4
Sx min.	.79in^3

9 DETAIL - STRONGBACK CHANNEL
SCALE: 3"=1'-0"

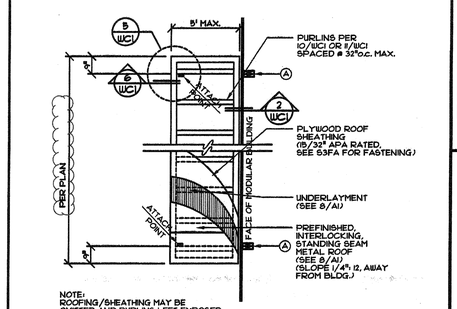


EFFECTIVE SECTION PROPERTIES	
A (GROSS)	.89in^2
Ix min.	4.12in^4
Sx min.	1.34in^3

11 DETAIL - CHANNEL PURLIN OPT.
SCALE: 3"=1'-0"



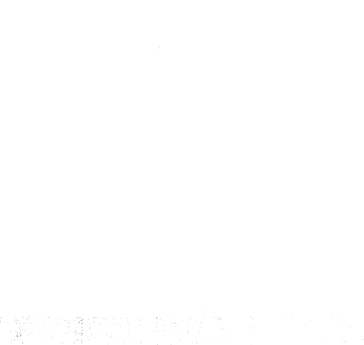
1 PLAN VIEW - MULTIPLE HANGER CANOPY
SCALE: 3/8"=1'-0"



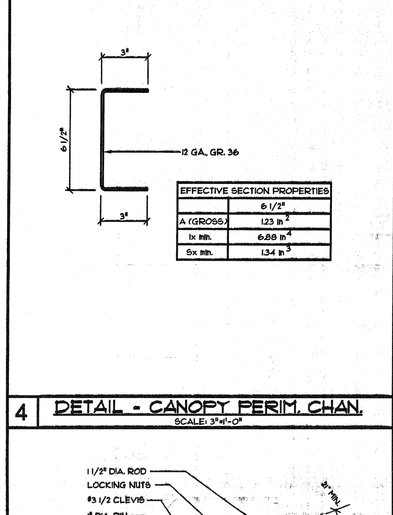
1.1 PLAN VIEW - DOUBLE HANGER CANOPY
SCALE: 3/8"=1'-0"



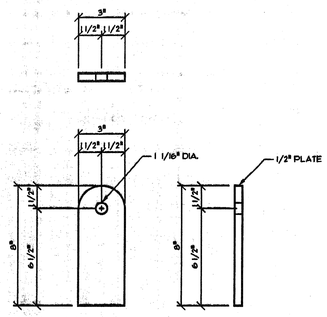
6 SECTION - LOWER CLEVIS PLATE
SCALE: 3"=1'-0"



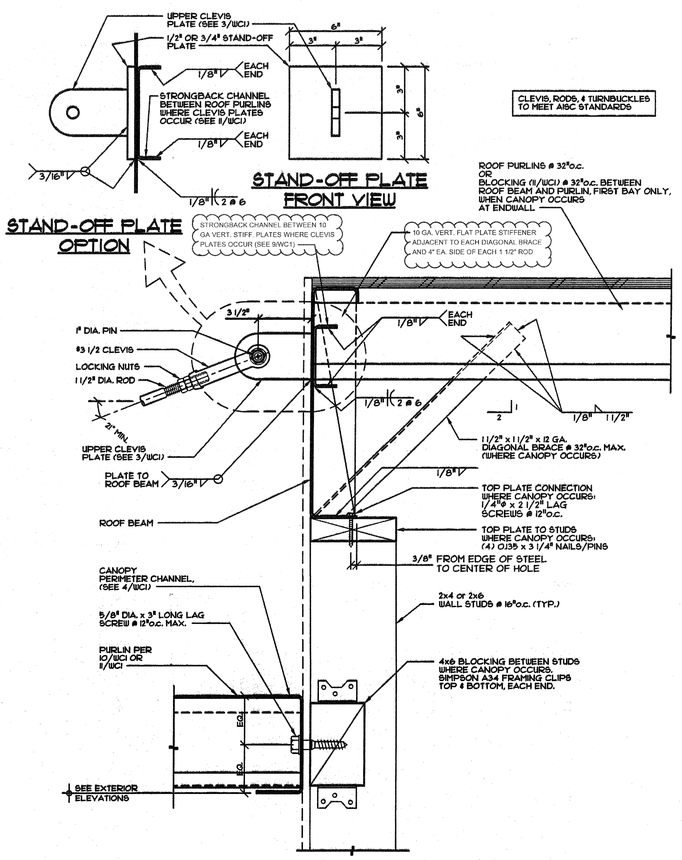
5 PLAN VIEW - LOWER CLEVIS PLATE
SCALE: 3"=1'-0"



7 SECTION - LOWER CLEVIS PLATE
SCALE: 3"=1'-0"



8 DETAIL - LOWER CLEVIS PLATE
SCALE: 3"=1'-0"



2 SECTION - CANOPY TO BUILDING
SCALE: 3"=1'-0"

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6363 Nicolas Park Drive, Suite 101
Reno, Nevada 89523
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JUN 03 2015

REGISTERED PROFESSIONAL ENGINEER
ANTHONY "ERNEST" ROTTER
No. 82030
EXP. 9/30/15
STRUCTURAL
STATE OF CALIFORNIA

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CANOPY FRAMING & CONNECTION DETAILS

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DRAWN BY:
DATE:

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AC FLS SS
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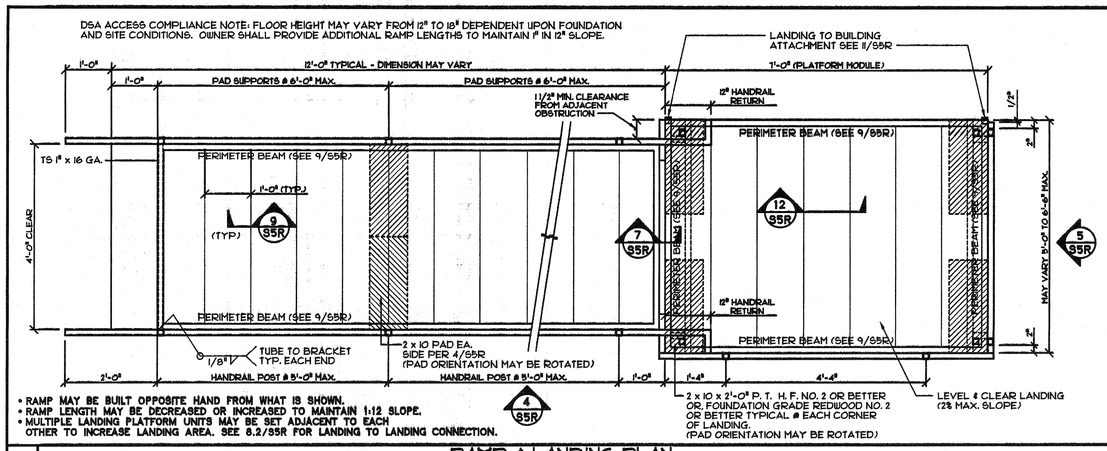
WC1

12'x40' P.C.

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DATE: 07/01/2026

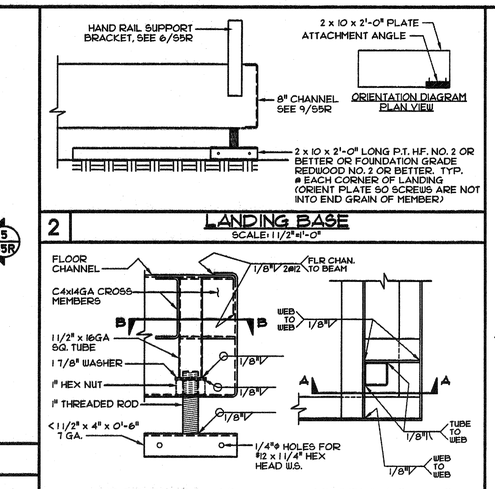
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03 116940
AC FLS SS
Date MAR 29 2016

DSA ACCESS COMPLIANCE NOTE: FLOOR HEIGHT MAY VARY FROM 12" TO 18" DEPENDENT UPON FOUNDATION AND SITE CONDITIONS. OWNER SHALL PROVIDE ADDITIONAL RAMP LENGTHS TO MAINTAIN 1" IN 12" SLOPE.



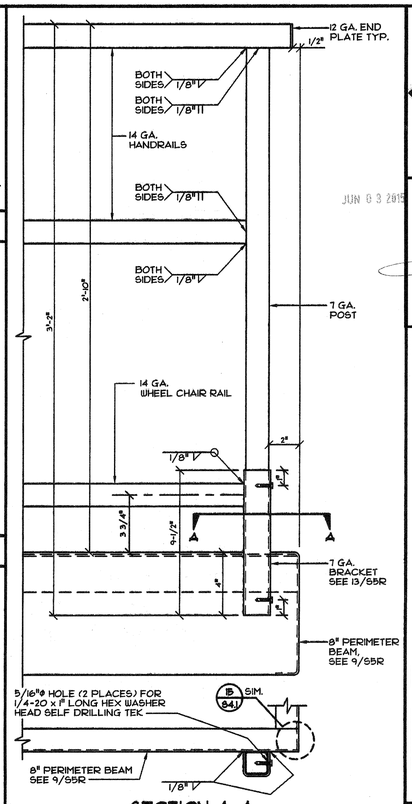
- RAMP MAY BE BUILT OPPOSITE HAND FROM WHAT IS SHOWN.
- RAMP LENGTH MAY BE DECREASED OR INCREASED TO MAINTAIN 1:12 SLOPE.
- MULTIPLE LANDING PLATFORM UNITS MAY BE SET ADJACENT TO EACH OTHER TO INCREASE LANDING AREA. SEE 8.2/9SR FOR LANDING TO LANDING CONNECTION.

1 RAMP & LANDING PLAN
SCALE: 3/4"=1'-0"



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

3 PLATFORM BASE & ADJUST LEG DETAIL
SCALE: 3"=1'-0"



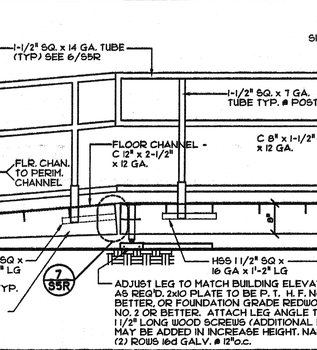
6 SECTION A-A

4 RAMP & PLATFORM SIDE ELEVATION
SCALE: 3/4"=1'-0"

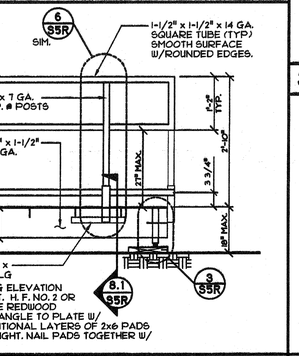
10 ZERO CLEARANCE TRANSITION
SCALE: 1 1/2"=1'-0"

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

7 RAMP TO LANDING ATTACHMENT
SCALE: 3/4"=1'-0"



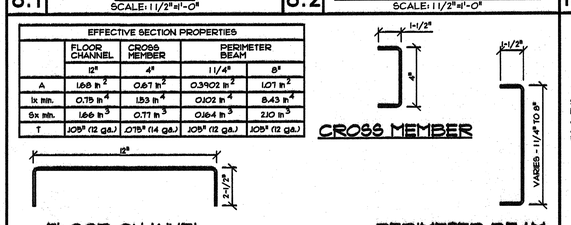
8.1 SECTION
SCALE: 1 1/2"=1'-0"



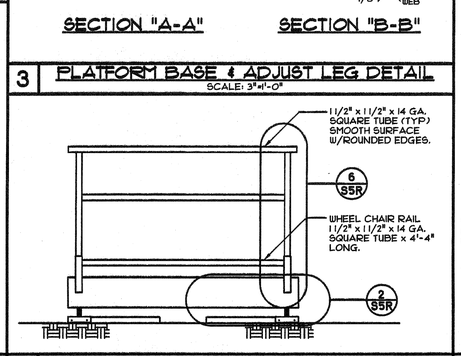
8.2 LANDING TO LANDING
SCALE: 1 1/2"=1'-0"

EFFECTIVE SECTION PROPERTIES

	FLOOR CHANNEL	CROSS MEMBER	PERIMETER BEAM	
	12"	4"	11/4"	8"
A	1.68 in^2	0.67 in^2	0.3902 in^2	1.07 in^2
Ix min.	0.75 in^4	1.53 in^4	0.102 in^4	8.43 in^4
Sx min.	1.66 in^3	0.71 in^3	0.164 in^3	2.10 in^3
T	.105" (12 ga.)	.075" (14 ga.)	.105" (12 ga.)	.105" (12 ga.)

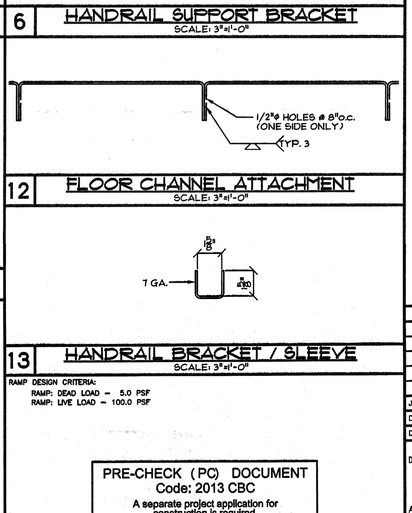


9 SECTION PROPERTIES
SCALE: 3"=1'-0"



11 LANDING ATTACHMENT TO BUILDING
SCALE: 1 1/2"=1'-0"

12 FLOOR CHANNEL ATTACHMENT
SCALE: 3"=1'-0"



13 HANDRAIL BRACKET / SLEEVE
SCALE: 3"=1'-0"

RAMP DESIGN CRITERIA:
RAMP: DEAD LOAD = 5.0 PSF
RAMP: LIVE LOAD = 100.0 PSF

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

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JUN 6 3 2015

REGISTERED PROFESSIONAL ENGINEER ARTHUR "ERNEST" CHAN No. S2030 EXP. 9/30/15 STRUCTURAL STATE OF CALIFORNIA

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

ACCESSIBLE RAMP & PLATFORM DETAILS

REV / DATE:	BY:

JOB No.:
DRAWN BY:
DATE:

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
02-113910
AC TM FLS SS
DATE 6-9-15

12"x40" P.C.

S5R