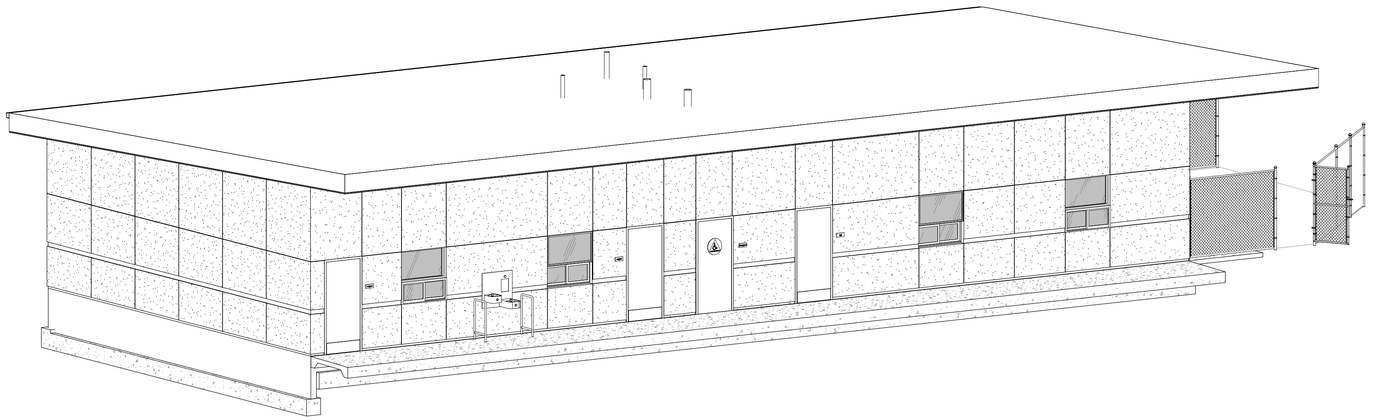


2555 S HALCYON RD, ARROYO GRANDE, CA

DSA APP. NO.: 03-125727

PTN: 68759-132

VICINITY MAP



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APPLICABLE STANDARDS

PARTIAL LIST OF APPLICABLE STANDARDS
2022 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAPTER 35

- **NFPA 13** AUTOMATIC SPRINKLER SYSTEMS (CALIFORNIA AMENDED) 2022 EDITION
- **NFPA 14** STANDPIPE SYSTEMS (CALIFORNIA AMENDED) 2019 EDITION
- **NFPA 17** DRY CHEMICAL EXTINGUISHING SYSTEMS 2021 EDITION
- **NFPA 17A** WET CHEMICAL EXTINGUISHING SYSTEMS 2021 EDITION
- **NFPA 20** STATIONARY PUMPS 2019 EDITION
- **NFPA 24** PRIVATE FIRE SERVICE MAINS (CALIFORNIA AMENDED) 2019 EDITION
- **NFPA 72** NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED) (NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES") 2022 EDITION
- **NFPA 80** FIRE DOOR AND OTHER OPENING PROTECTIVES 2019 EDITION
- **NFPA 253** CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS 2015 EDITION
- **NFPA 2001** CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CALIFORNIA AMENDED) 2018 EDITION
- **UL300** - STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT 2005 (R2010)
- **UL464** - AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS 2003 EDITION
- **UL521** - STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS 1999 EDITION
- **UL1971** - STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED 2002 (R2010)

APPLICABLE CODES

THESE NOTES APPLY TO ALL PORTIONS, PHASES AND SUBCONTRACTORS OF THIS PROJECT.
APPLICABLE CODES ARE STANDARDS:

- **2025** CALIFORNIA ADMINISTRATIVE CODE
- **2022** CALIFORNIA BUILDING CODE AND ITS APPENDICES AND STANDARDS.
- **2022** CALIFORNIA PLUMBING CODE AND ITS APPENDICES AND STANDARDS.
- **2022** CALIFORNIA MECHANICAL CODE AND ITS APPENDICES AND STANDARDS.
- **2022** CALIFORNIA FIRE CODE AND ITS APPENDICES AND STANDARDS.
- **2022** CALIFORNIA ELECTRICAL CODE AND ITS APPENDICES AND STANDARDS.
- **2022** CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS.
- **2022** CALIFORNIA GREEN BUILDING STANDARDS CODE AND ITS APPENDICES AND STANDARDS.
- **2022** CALIFORNIA FIRE CODE
- COMPLIANCE WITH CFC CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION
- **2022** CALIFORNIA EXISTING BUILDING CODE
- **2022** CALIFORNIA REFERENCED STANDARDS CODE TITLE 24 CCR
- TITLE 19 CCR. PUBLIC SAFETY STATE FIRE MARSHALL REGULATIONS
- CURRENT CITY OF ARROYO GRANGE MUNICIPAL CODE.
- **2010** ADA STANDARDS FOR ACCESSIBLE DESIGN

DEFERRED SUBMITTALS

NONE.

PROJECT INFORMATION

PROJECT SCOPE

1. CONSTRUCTION OF A NEW CLASSROOM BUILDING 230
2. ASSOCIATED GRADING, PAVING, LANDSCAPE, UTILITY, AND SITEWORK

CLIMATE ZONE: 5

DESCRIPTION

OCCUPANCY:	E
CONSTRUCTION TYPE:	V-B
FIRE SPRINKLERED:	NO
BUILDING HEIGHT:	14' - 11"
NUMBER OF STORIES:	1
BUILDING AREA:	2,808 SF
OVERALL AREA (WITH OVERHANGS):	3,930 SF

GENERAL CONFORMANCE

APPLICATION NO. 03-125727 FILE NO. 40-39

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

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

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

I CERTIFY THAT:

☐ ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET
☐ THIS DRAWING OR PAGE

☐ IS/ARE IN GENERAL CONFORMANCE AND ☐ HAVE BEEN COORDINATED	☐ IS/ARE IN GENERAL CONFORMANCE AND ☐ HAVE BEEN COORDINATED
02/23/2025	02/23/2025
SIGNATURE / DATE	SIGNATURE / DATE
ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE	ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE
KATHRYN ANNE HICKS	KRISTINE LYNNE FERREIRA
PRINT NAME	PRINT NAME
C-38079 / 02/28/27	C-38017 / 11/30/25
LICENSE NUMBER / EXPIRATION	LICENSE NUMBER / EXPIRATION

ACCEPTANCE TESTING

SEE G-002 FOR ACCEPTANCE TESTING REQUIREMENTS.

SHEET INDEX

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G-002	GENERAL INFORMATION	
G-201	CAL GREEN REQUIREMENTS	
G-202	CAL GREEN REQUIREMENTS	
G-401	ACCESS COMPLIANCE AND OVERALL CAMPUS PLAN	
G-402	FIRE LIFE SAFETY SITE PLAN	
G-403	BUILDING CODE ANALYSIS	
CIVIL (BY OTHER DESIGN PROFESSIONAL)		
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C-1.1	GENERAL NOTES	
C-2.1	EXISTING CONDITIONS AND SITE PREPARATION	
C-3.1	CONSTRUCTON AND UTILITY PLAN	
C-4.1	GRADING AND DRAINAGE PLAN	
C-4.2	GRADING AND DRAINAGE PLAN	
C-4.3	RETAINING WALL PROFILES	
C-5.1	DETAILS	
C-6.1	HORIZONTAL CONTROL PLAN	
C-7.1	BMP NOTES	
C-7.2	BMP PLAN	
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LP101	PLANTING PLAN	
LP501	PLANTING DETAILS	
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A-954	INTERIOR DETAILS	
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S-502	TYPICAL WOOD DETAILS	
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E301	FIRE ALARM DETAILS	
E302	FIRE ALARM CALCULATIONS	
E401	COMMUNICATIONS RISER DIAGRAM	

Grand total: 97

rrm design group
rrmdesign.com | (805) 543-1794

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LICENSED ARCHITECT
KATHRYN ANNE HICKS
938079
2-28-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

MESA MS SPED SCIENCE BUILDING
2555 S HALCYON RD, ARROYO GRANDE, CA

TITLE SHEET

NO.	REVISION	DATE
△		
△		
△		
△		
△		
△		

PROJECT MANAGER
KH
DRAWN BY DK
CHECKED BY KF
DATE
APRIL 23, 2026
PROJECT NUMBER
0822-03-ED25
SHEET
G-001

DSA BACK CHECK 2

4/20/2026 6:42:53 PM
Autodesk Docs://0822-03-ED25-Mesa Middle School Classroom/0822-03_Mesa Middle School - Science & SPED Classroom.rvt

ABBREVIATIONS

A/C	AIR CONDITIONING
ABV	ABOVE
ACOUS	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICANS WITH DISABILITIES ACT
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISH FLOOR
AL	ALUMINUM
ALT	ALTERNATE
ARCH	ARCHITECT(URAL)
BD	BOARD
BDRM	BEDROOM
BET	BETWEEN
BIT	BITUMINOUS
BLDG	BUILDNG
BLKG	BLOCKING
BLW	BELOW
BM	BEAM
BOT	BOTTOM
BUR	BUILT UP ROOF
CB	CATCH BASIN
CBC	CALIFORNIA BUILDING CODE
CEM	CEMENT
CFM	CUBIC FEET PER MINUTE
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CPT	CARPET
CT	CERAMIC TILE
CTR	CENTER
DBL	DOUBLE
DF	DRINKING FOUNTAIN
DIA	DIAMETER, DIAPHRAGM
DIM	DIMENSION
DN	DOWN
DR	DOOR
DS	DOWN SPOUT
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING
(E)	EXISTING
E	EAST
EA	EACH
EJ	EXPANSION JOINT
EL, ELEV	ELEVATION
ELEC	ELECTRIC
ENCL	ENCLOSURE
EQ	EQUAL
EQUIP	EQUIPMENT
EXH	EXHAUST
EXP	EXPANSION
EXT	EXTERIOR
FACP	FIRE ALARM CONTROL PANEL
FAU	FORCED AIR UNIT
FAWP	FLUID APPLIED WATERPROOFING
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIN	FINISH
FIXT	FIXTURE
FLR	FLOOR
FLUOR	FLOURESCENT
FND	FOUNDATION
FO	FACE OF
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOIC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FRP	FIBERGLASS REINFORCED PANELS
FT	FOOT OR FEET
FTG	FOOTING
GA	GAUGE, GAGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GT	GROUT
GWB	GYPSUM BOARD
GYP	GYPSUM
HB	HOSE BIBB
HC	HOLLOW CORE
HDWD	HARDWOOD
HDWR	HARDWARE
HGT	HEIGHT
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HVAC	HEATING, VENTILATION, A/C
ID	INSIDE DIAMETER
IIC	IMPACT INSULATION CLASS
IN	INCH
INCAND	INCANDESCENT
INSUL	INSULATION, INSULATED
INT	INTERIOR
JC	JANITORS CLOSET
JT	JOINT
LAM	LAMINATE
LAV	LAVATORY
LBS	POUNDS
LEED	LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN
LF	LINEAR FEET
LIN	LINEN CLOSET
LINO	LINOLEUM
LT(G)	LIGHT(ING)
LVL	LAMINATED VENEER LUMBER
LVT	LUXURY VINYL TILE
LW	LIGHTWEIGHT
MAX	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MEMB	MEMBRANE
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL
N	NORTH
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O.P.	OVERFLOW PIPE
OC	ON CENTER
OD	OVERFLOW DRAIN
OFF	OFFICE
OH	OPPOSITE HAND
OPG	OPENING
OPP	OPPOSITE
(P)	PROPOSED
PERIM	PERIMETER
PERP	PERPENDICULAR
PG	PAINT GRADE
PL	PLATE, PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PP	POWER POLE
PR	PAIR
PRTN	PARTITION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
PT	PRESSURE TREATED
PTD	PAINTED
PV	PHOTO VOLTAIC
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QTY	QUANTITY
R	RADIUS, RISER
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFRIGERATOR
REINF	REINFORCED
REQD	REQUIRED
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
RTU	ROOF TOP UNIT (MECH)
S	SOUTH
SAFB	SOUND ATTENUATION FIBER BATT
SAWP	SELF ADHEREING WATERPROOFING
SC	SCUPPER/SOLID CORE
SCHED	SCHEDULE
SEAL	SEALANT
SECT	SECTION
SF	SQUARE FOOT
SHT	SHEET
SHTHG	SHEATHING
SIM	SIMILAR
SM	SHEET METAL
SPEC	SPECIFICATION
SQ	SQURE
SS	SOLID SURFACE
SSTL	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUPSPENDED
SV	SHEET VINYL
SYM	SYMMMETRICAL
T	TREAD
T&G	TONGUE & GROOVE
TB	TACKBOARD
TEL	TELEPHONE
TEMP	TEMPERED
TER	TERRAZZO
THK	THICK
THR	THRESHOLD
TJI	TRUSS JOIST I-JOIST
TO	TOP OF
TOS	TOP OF SLAB
TOW	TOP OF WALL
TRANS	TRANSFORMER
TV	TELEVISION
TYP	TYPICAL
UFAS	UNIFORM FEDERAL ACCESSIBILITY STANDARDS
UG	UNDERGROUND
UNFIN	UNFINISHED
UNO	ULNESS NOTED OTHERWISE
UV	UTRAVIOLET
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VTR	VENT TERMINATION PIPE
VWC	VINYL WALL COVERING
W	WEST
W/	WITH
W/D	WASHER DRYER
W/O	WITHOUT
WC	WATERCLOSET
WD	WOOD
WDW	WINDOW
WH	WATER HEATER
WI	WROUGHT IRON
WIN	WINDOW
WP	WATERPROOF(ING)
WR	WEATHER RESISTIVE
WRB	WATER RESISTIVE BARRIER
WSCT	WAINSCOT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
YD	YARD

LUCIA MAR UNIFIED SCHOOL DISTRICT

Lucia Mar Unified School District
Facilities, Maintenance, and Operations
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February 18, 2026

Mr. Mark Carreon
Fire and Life Safety Officer II
Division of the State Architect
Los Angeles Regional Office
355 South Grand Avenue, Suite 2100
Los Angeles, CA 90071

Project: Mesa MS SPED Science Building
DSA Application No. 03-125727 / PTN: 68759-132

Dear Mark,

I am writing to clarify the occupancy and intended use of each of the classrooms for the new classroom building at Mesa Middle School as reviewed with our design team.

Within the Science Room, Room 301, the district middle school curriculum is limited to “life science” and the experiments do not involve the storage or use of any hazardous materials as defined in Chapter 3. Chapter 2 SFM definition specifically defines a lab as “A room, building or area where the use and storage of hazardous materials are utilized for testing, analysis, instruction, research or developmental activities.” Given these two conditions this space is most appropriately classified as an E occupancy with an OLF of 20 net instead of 50 net.

Additionally, the Special Education Room, Room 302 at Mesa serves middle school students, grades 7 and 8, with special education needs, but does not serve their highest need non-ambulatory students. Those students are provided with educational opportunities at another district site at Oceano Education Center. The room may include learning aides (but not custodial care) depending on the student’s individual education plan, and the students in this space are able to exit unassisted. In reviewing IR 10-2 section 1.14.1 with our architect, this space would not need to be classified as an I-4 occupancy and is most appropriately classified as an E occupancy.

Sincerely,

Andy Stenson
Executive Director of Facilities, Maintenance & Operations

TITLE 24 CCR NOTES

1. ALL WORK SHALL CONFORM TO THE 2022 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
2. CHANGE TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR. CCD MUST BE SIGNED BY A/E OF RECORD, STRUCTURAL ENGINEER (WHEN APPLICABLE), DELEGATED PROFESSIONAL ENGINEER (WHEN APPLICABLE)
3. SUBMIT RFIS TO DESIGN TEAM IN CASE OF INCONSISTENCIES BETWEEN APPROVED DRAWINGS AND APPROVED SPECIFICATIONS IN THE DESCRIPTIONS OF WORK TO BE DONE, EQUIPMENT TO BE PROVIDED OR MATERIAL TO BE USED. IT SHALL BE THAT THE MORE STRINGENT, THE MORE RESTRICTIVE, THE HIGHER QUALITY, AND THE GREATER QUANTITY OF WORK SHALL APPLY. SUBMIT REVISED DRAWINGS OR SPECIFICATIONS AS RESULT OF SUCH RFIS TO DSA VIA CCD'S IF REQUIRED BY IR A-6.
4. WHENEVER DSA FINDS ANY CONSTRUCTION WORK IS BEING PERFORMED IN A MANNER CONTRARY TO THE PROVISIONS OF CALIFORNIA BUILDING CODE AND THAT WOULD COMPROMISE THE STRUCTURAL INTEGRITY OF THE BUILDING, THE DEPARTMENT OF GENERAL SERVICES, STATE OF CALIFORNIA, IS AUTHORIZED TO ISSUE A STOP WORK ORDER PER SECTION 4-334.1 CALIFORNIA ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR).
5. A DSA CERTIFIED, CLASS 2 MIN. PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24. INSPECTOR SHALL BE CLASS 1 CERTIFIED.
6. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
7. VERIFY REPORTS ARE REQUIRED BY THE GEOTECHNICAL ENGINEER.
8. THE PROJECT INSPECTION (PI) SHALL WITNESS AND VERIFY GROUNDING.
9. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION, OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR).
10. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS, AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
11. COPIES OF TITLE 24, PARTS 1 THROUGH 5 AND 9 SHALL BE KEPT ON SITE DURING CONSTRUCTION.
12. CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND OR SEISMIC FORCE RESISTING SYSTEM, INSTALLATION OF EQUIPMENT /COMPONENTS REQUIRING SPECIAL SEISMIC CERTIFICATION, OR A WIND OR SEISMIC FORCE RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL (DIVISION OF THE STATE ARCHITECT) AND THE OWNER OR THE OWNER'S AUTHORIZED AGENT PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS. STATEMENTS SHALL BE IN ACCORDANCE WITH CBC 1704A.4.
13. PER CFC 510.1 EMERGENCY RESPONDER RADIO COVERAGE IN NEW BUILDINGS: NEW BUILDINGS SHALL HAVE APPROVED RADIO COVERAGE FOR EMERGENCY RESPONDERS WITHIN THE BUILDING BASED ON THE EXISTING COVERAGE LEVELS OF THE PUBLIC SAFETY COMMUNICATION SYSTEMS UTILIZED BY THE JURISDICTION, MEASURED AT THE EXTERIOR OF THE BUILDING.
14. ALL STRUCTURAL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING MATERIALS INSTALLATION TO COMPLY WITH APPLICABLE CODES, STANDARDS, AND MANUFACTURER'S RECOMMENDATIONS.
15. EPOXY SHEAR DOWELS IN SITE FLATWORK AND AND OTHER NON-STRUCTURAL CONCRETE SHALL NOT REQUIRE TESTING IN ACCORDANCE WITH DSA IR A-22.
16. SEE IR A-6 FOR ADDITIONAL INFORMATION. SUBSTITUTIONS AFFECTING ITEMS REGULATED BY THE DIVISION OF THE STATE ARCHITECT (DSA) REQUIRE DSA APPROVAL AS AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD). DSA APPROVAL SHALL BE OBTAINED PRIOR TO FABRICATION AND/OR INSTALLATION PER SECTION 4-338, PART 1, TITLE 24, CCR.

ACCEPTANCE TESTING

ACCEPTANCE TESTING TO BE PROVIDED BY CERTIFIED TECHNICIANS FOR THE FOLLOWING SYSTEMS:

1. INDOOR AND OUTDOOR LIGHTING SYSTEMS CONTROLS (SPEC SEC. 26 5670)

2. BUILDING ENVELOPE (SHT. EC-002 NRCC-PRF-E FORM).

3. MECHANICAL SYSTEMS (SHT. EC-002 NRCC-PRF-E FORM).

ADD THE FOLLOWING NOTE TO THE DRAWINGS:

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

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

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.

GENERAL NOTES

USE OF PLANS: THESE PLANS ARE THE PROPERTY OF RRM AND MAY NOT BE USED WITHOUT THE EXPRESS, WRITTEN CONSENT.

THESE NOTES APPLY TO ALL PORTIONS, PHASES AND SUBCONTRACTORS OF THIS PROJECT.
APPLICABLE CODES ARE STANDARDS:

- *2022 CALIFORNIA BUILDING CODE AND ITS APPENDICES AND STANDARDS.*
- *2022 CALIFORNIA PLUMBING CODE AND ITS APPENDICES AND STANDARDS.*
- *2022 CALIFORNIA MECHANICAL CODE AND ITS APPENDICES AND STANDARDS.*
- *2022 CALIFORNIA FIRE CODE AND ITS APPENDICES AND STANDARDS.*
- *2022 CALIFORNIA ELECTORAL CODE AND ITS APPENDICES AND STANDARDS.*
- *2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS.*
- *2022 CALIFORNIA GREEN BUILDING STANDARDS CODE AND ITS APPENDICES AND STANDARDS.*
- *CURRENT CITY OF ARROYO GRANDE MUNICIPAL CODE.*

1. ALL WORK DESCRIBED IN THE DRAWINGS SHALL BE VERIFIED FOR DIMENSION, GRADE, EXTENT AND COMPATIBILITY WITH EXISTING SITE CONDITIONS. ANY DISCREPANCIES AND UNEXPECTED CONDITIONS THAT AFFECT OR CHANGE THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY. DO NOT PROCEED WITH THE WORK IN THE AREA OF DISCREPANCIES UNTIL ALL SUCH DISCREPANCIES ARE RESOLVED, IF THE CONTRACTOR CHOOSES TO DO, HE/SHE SHALL BE PROCEEDING AT HIS/HER OWN RISK.
2. DIMENSIONS SHOWN SHALL TAKE PRECEDENCE OVER DRAWING SCALE OR PROPORTION. LARGER SCALE DRAWINGS SHALL TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS. ALL DIMENSIONS ARE ROUGH AND TO THE FACE OF FRAMING.
3. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
4. IN THE EVENT OF THE UNFORESEEN ENCOUNTER OF MATERIALS SUSPECTED TO BE ARCHAEOLOGICAL OR PALEONTOLOGICAL NATURE, ALL GRADING AND EXCAVATION SHALL CEASE IN IMMEDIATE AREA AND THE CONTRACTOR SHALL NOTIFY THE OWNER. THE FIND SHALL BE LEFT UNTOUCHED UNTIL AN EVALUATION BY A QUALIFIED ARCHAEOLOGIST OR PALEONTOLOGIST IS MADE.
5. CONTRACTOR IS TO BE RESPONSIBLE FOR BEING FAMILIAR WITH THESE DOCUMENTS INCLUDING ALL CONTRACT REQUIREMENTS.
6. CONTRACTOR TO REVIEW CALIFORNIA GREEN CODE REQUIREMENTS FOR CONTRACTOR REQUIREMENTS.
7. TEMPORARY FACILITIES: CONTRACTOR SHALL PAY FOR, PROVIDE AND MAINTAIN TEMPORARY FACILITIES FOR PROJECT PROTECTION AND CONSTRUCTION, AND AS REQUIRED BY LOCAL REGULATION AND THESE DOCUMENTS. SUCH FACILITIES INCLUDE, BUT ARE NOT LIMITED TO: TOILETS, LIGHTS, HEATERS, POWER, GAS FANS, WATER, PHONES, FENCES, SIGNS, SHEDS, ETC. REMOVE FROM SITE UPON COMPLETION OF WORK. OBTAIN BUILDING OFFICIAL OR FIRE MARTIAL APPROVAL PRIOR TO USE OF ANY TEMPORARY HEATING DEVICE.
8. CONTRACTOR SHALL PROVIDE FOR PROTECTION AND SAFETY; RESPONSIBLE FOR ALL ITEMS (SIGNS, LIGHTS, FENCES, BRACING, ANCHOR-AGE, FIRE-EXTINGUISHERS, ETC.) NECESSARY FOR THE PROTECTION OF THE PUBLIC, WORKERS, MATERIALS, CONSTRUCTION AND PROPERTY PER LOCAL, STATE, AND FEDERAL REQUIREMENTS (INCLUDING EARTHQUAKES, FIRES, SPILLS, ACCIDENTS, EROSION, MUD, DUST ETC.).
9. CONTRACTOR TO PROVIDE COMPLETE DETAILS OF ENGINEERED TEMPORARY SHORING OR SLOT CUTTING PROCEDURES ON PLANS. CALL FOR INSPECTION BEFORE EXCAVATION BEGINS.
10. THE SOILS ENGINEER IS TO APPROVE THE KEY OR BOTTOM AND LEAVE A CERTIFICATE ON THE SITE FOR THE GRADING INSPECTOR. THE GRADING INSPECTOR IS TO BE NOTIFIED BEFORE ANY GRADING BEGINS., AND FOR BOTTOM INSPECTION, BEFORE FILL IS PLACED. FILL MAY NOT BE PLACED WITHOUT APPROVAL OF THE GRADING INSPECTOR.
11. A SEPARATE OFFICER, ACCESS EASEMENT/AGREEMENT, AND/OR RECIPROCAL ACCESS EASEMENT/AGREEMENT MAY BE REQUIRED TO ENSURE THAT THE PROPOSED PRIVATE ACCESS ROADWAY WILL REMAIN OPEN TO THROUGH TRAFFIC AND EMERGENCY VEHICLES PRIOR TO FINAL OF BUILDING PERMIT.
12. SHOP WELDS MUST BE PERFORMED BY A LICENSED FABRICATOR'S SHOP.
13. OSHA PERMITS REQUIRED FOR VERTICAL CUTS 5' OR GREATER.

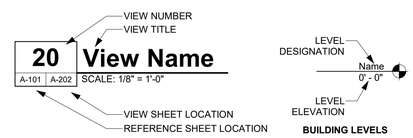
RADON MITIGATION

THE GEOTECHNICAL ENGINEER HAS FOUND THIS PROJECT SITE TO BE LOCATED IN AN AREA OF LOW RADON POTENTIAL, AS DEPICTED IN FIGURE 7 AS PRESENTED IN APPENDIX D IN THE GEOTECHNICAL REPORT (UPDATED GEOTECHNICAL ENGINEERING AND GEOLOGIC HAZARDS REPORT p. 100 & 104)

RADON MITIGATION IS ADDRESSED IN THIS PROJECT THROUGH THE INCLUSION OF A VAPOR BARRIER IN ACCORDANCE WITH SPECIFICATION SECTION 03 0516.

REFER TO SPECIFICATION SECTION 03 0516 FOR SPECIFIC REQUIREMENTS AND INSTALLATION INFORMATION.

SYMBOLS



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LICENSED ARCHITECT
KATHRYN ANNE NICOL
938079
2-28-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

MESA MS SPED SCIENCE BUILDING
2555 S HALCYON RD, ARROYO GRANDE, CA

GENERAL INFORMATION

NO.	REVISION	DATE

PROJECT MANAGER
KH

DRAWN BY DK | **CHECKED BY** KF

DATE
APRIL 23, 2026

PROJECT NUMBER
0822-03-ED25

SHEET
G-002

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Attachment 1

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

Division of the State Architect – Structural Safety (DSA-SS)
(CCR, Title 24, Part 11)

CHAPTER 3 – GREEN BUILDING

SECTION 301 – GENERAL

301.4 Mandatory measures for public schools and community colleges. [DSA-SS] New building construction and site work on a new or existing site shall comply with Section 301.4.

301.4.1 Building and site construction on a new site shall comply with Chapter 5 as adopted by DSA-SS.

301.4.2 Work on an existing site shall comply with Section 301.4.2.

301.4.2.1 Newly constructed site work shall comply with Chapter 5 as adopted by DSA-SS.

301.4.2.2 Newly constructed buildings shall comply with Chapter 5 as adopted by DSA-SS and Section 301.4.3.

301.4.2.3 Additions to existing buildings shall comply with Section 301.4.3.

301.4.2.4 Rehabilitated landscape areas shall comply with Sections 5.304.6 and 5.106.12.

301.4.3 Minimum rehabilitated landscape area requirement. A minimum rehabilitated landscape area equal to 75 percent of the footprint area of the building shall comply with Section 5.304.6 and Section 106.12. New buildings or additions to existing buildings less than 1,600 square feet shall not be required to comply with Section 301.4.3.

CHAPTER 5 – NONRESIDENTIAL MANDATORY MEASURES

DIVISION 5.1 – PLANNING AND DESIGN

SECTION 5.106 – SITE DEVELOPMENT

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

☐ **5.106.4.2.1 Student bicycle parking.** Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.

☐ **5.106.4.2.2 Staff bicycle parking.** Provide permanent secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:

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

☐ **5.106.5.3 Electric vehicle (EV) charging. [N]** Construction shall comply with Section 5.106.5.3.1 or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment (EVSE). When EVSE(s) is/are installed, it shall be in accordance with the *California Building Code*, the *California Electrical Code* and as follows:

Notes:

1. **[N]** See also *California Building Code,* Chapter 12, Section 1205.7 for college campus lighting requirements for parking facilities and walkways.
2. Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for Illuminating Engineering Society Technical Memorandum TM-15-11 Table A-1, *California Energy Code* Tables 130.2-A and 130.2-B.
3. Refer to the California Energy Code for requirements for additions and alterations.

TABLE 5.106.8 [N]

MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT, AND GLARE (BUG) RATINGS
(See CALGreen for TABLE)

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

1. Swales.
2. Water collection and disposal systems.
3. French drains.
4. Water retention gardens.
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.

Exception: Additions and alterations not altering the drainage path.

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

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

Exception: The surface parking area covered by solar photovoltaic shade structures, or shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculation.

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

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

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

Exception: Walks, hardscape areas covered by solar photovoltaic shade structures, and hardscape areas covered by shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculation.

DIVISION 5.2 – ENERGY EFFICIENCY

SECTION 5.201 – GENERAL

☐ **5.201.1 California Energy Code.** For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory standards.

☐ **5.106.5.3.1 Single charging space requirements. [N]** When only a single charging space is required per Table 5.106.5.3.3, a raceway is required to be installed at the time of construction and shall be installed in accordance with the *California Electrical Code.* Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.
2. A listed raceway capable of accommodating a 208/240-volt dedicated branch circuit.
3. The raceway shall not be less than trade size 1 inch.
4. The raceway shall originate at a service panel or a subpanel serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and into a listed suitable cabinet, box, enclosure or equivalent.
5. The service panel or subpanel shall have sufficient capacity to accommodate a minimum 40-amprere dedicated branch circuit for the future installation of the EVSE.

☐ **5.106.5.3.2 Multiple charging space requirements. [N]** When multiple charging spaces are required per Table 5.106.5.3.3 raceway(s) is/are required to be installed at the time of construction and shall be installed in accordance with the *California Electrical Code.* Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.
2. The raceway(s) shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and into listed suitable cabinet(s), box(es), enclosure(s) or equivalent.
3. Plan design shall be based upon 40-amprere minimum branch circuits.
4. Electrical calculations shall substantiate the design of the electrical system, to include the rating of equipment and any on-site distribution transformers and have sufficient capacity to simultaneously charge all required EVs at its full rated amperage.
5. The service panel or subpanel(s) shall have sufficient capacity to accommodate the required number of dedicated branch circuit(s) for the future installation of the EVSE.

EV charging space calculation. [N] Table 5.106.5.3.3 shall be used to determine if single or multiple charging space requirements apply for the future installation of EVSE.

Exceptions: On a case-by-case basis where the local enforcing agency has determined EV charging and infrastructure is not feasible based upon one or more of the following conditions:

1. Where there is insufficient electrical supply.
2. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

DIVISION 5.3 – WATER EFFICIENCY AND CONSERVATION

SECTION 5.303 – INDOOR WATER USE

5.303.3 Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

☐ **5.303.3.1 Water closets.** The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specifications for Tank-Type Toilets.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

5.303.3.2 Urinals.

☐ **5.303.3.2.1 Wall mounted urinals**. The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush.

☐ **5.303.3.2.2 Floor mounted urinals**. The effective flush volume of floor mounted or other urinals shall not exceed 0.5 gallons per flush.

5.303.3.3 Showerheads

☐ **5.303.3.3.1 Single showerhead.** Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specifications for showerheads.

☐ **5.303.3.3.2 Multiple showerheads serving one shower**. When a shower is served by more than one showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the showerhead shall be designed to allow only one shower outlet to be in operation at one time.

Note: A hand-held shower shall be considered a showerhead.

5.303.3.4 Faucets and fountains.

☐ **5.303.3.4.1 Non-residential lavatory faucets.** Non-residential lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.

☐ **5.303.3.4.2 Kitchen faucets.** Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.

5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20 [rim space (inches) at 60 psi].

☐ **5.303.3.4.4 Metering faucets.** Metering faucets shall not deliver more than 0.20 gallons per cycle.

☐ **5.303.3.4.5 Metering faucets for wash fountains.** Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per cycle/20 [rim space (inches) at 60 psi].

Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.

☐ **5.303.6 Standards for plumbing fixtures and fittings.** Plumbing fixtures and fittings shall be installed in accordance with the *California Plumbing Code*, and shall meet the applicable standards referenced in Table 1701.1 of the *California Plumbing Code* and in Chapter 6 of this code**.**

TABLE 5.106.5.3.3	
TOTAL NUMBER OF ACTUAL PARKING SPACES	**NUMBER OF REQUIRED EV CHARGING SPACES**
0 – 9	0
10 – 25	1
26 – 50	2
51 – 75	4
76 – 100	5
101 – 150	7
151 – 200	10
201 and over	6 percent of total [1]

1. Calculation for spaces shall be rounded up to the nearest whole number.

☐ **5.106.5.3.4 [N] Identification.** The service panel or subpanel(s) circuit directory shall identify the reserved overcurrent protective device space(s) for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

☐ **5.106.5.3.5 [N] Future charging spaces.** Future charging spaces qualify as designated parking as described in Section 5.106.5.2 Designated parking for clean air vehicles.

☐ **5.106.8 Light pollution reduction. [N]** Outdoor lighting systems shall be designed and installed to comply with the following:

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

Exceptions: [N]

1. Luminaires that qualify as exceptions in Section 140.7 of the *California Energy Code.*
2. Emergency lighting.
3. Building facade meeting the requirements in Table 140.7-B of the *California Energy Code*, Part 6.
4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.

SECTION 5.304 – OUTDOOR WATER USE

5.304.6 Outdoor potable water use in landscape areas. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, *California Code of Regulations*, except that the Evapotranspiration Adjustment Factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.

Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.

☐ **5.304.6.1 Newly constructed landscapes.** New construction projects with an aggregate landscape area equal to or greater than 500 square feet.

☐ **5.304.6.2 Rehabilitated landscapes.** Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

DIVISION 5.4 – MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.407 – WATER RESISTANCE AND MOISTURE MANAGEMENT

☐ **5.407.1 Weather protection.** Provide a weather-resistant exterior wall and foundation envelope as required by *California Building Code,* Section 1402.2 (Weather Protection), manufacturer's installation instructions, or local ordinance, whichever is more stringent.

5.407.2 Moisture control. Employ moisture control measures by the following methods:

☐ **5.407.2.1 Sprinklers.** Design and maintain landscape irrigation systems to prevent spray on structures.

5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:

☐ **5.407.2.2.1 Exterior door protection.** Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:

1. An installed awning at least 4 feet in depth.
2. The door is protected by a roof overhang at least 4 feet in depth.
3. The door is recessed at least 4 feet.
4. Other methods which provide equivalent protection.

☐ **5.407.2.2.2 Flashing.** Installed flashings integrated with a drainage plane.

SECTION 5.408 – CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

5.408.1 Construction waste management. Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.

☐ **5.408.1.1 Construction waste management plan.** Where a local jurisdiction does not have a construction and demolition waste management ordinance that is more stringent, submit a construction waste management plan that:

1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.

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938079
2-28-27
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STATE OF CALIFORNIA

CONSULTANT

MESA MS SPED SCIENCE BUILDING
2555 S HALCYON RD, ARROYO GRANDE, CA

CAL GREEN REQUIREMENTS

NO.	REVISION	DATE
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PROJECT MANAGER
KH

DRAWN BY DK | **CHECKED BY** KF

DATE
APRIL 23, 2026

PROJECT NUMBER
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2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken.
4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

☐ **5.408.1.2 Waste management company.** Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.

Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.

Exceptions to Sections 5.408.1.1 and 5.408.1.2:

1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.

☐ **5.408.1.3 Waste stream reduction alternative.** The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65 percent minimum requirement as approved by the enforcing agency.

☐ **5.408.1.4 Documentation.** Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 5.408.1.1 through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

Notes:
1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located at www.bsc.ca.gov/Home/CALGreen.aspx may be used to assist in documenting compliance with the waste management plan.
2. Mixed construction and demolition debris (C&D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

SECTION 5.410 – BUILDING MAINTENANCE AND OPERATION

☐ **5.410.1 Recycling by occupants.** Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.

Exception: Rural jurisdictions that meet and apply for the exemption of Public Resources Code 42649.82 (a)(2)(A) et seq. will also be exempt from the organics waste portion of this section.

☐ **5.410.1.2 Sample ordinance.** Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the *Public Resources Code.* Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).

Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's website.

DIVISION 5.5 ENVIRONMENTAL QUALITY

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.

SECTION 5.507 – ENVIRONMENTAL COMFORT

☐ **5.507.4 Acoustical control.** Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413 or Outdoor–Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: [DSA-SS] For public schools and community colleges, the requirement of this section and all subsections apply only to new construction.

☐ **5.507.4.1 Exteriors noise transmission, prescriptive method.** Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport.

   Exceptions:

   1. L_{dn} or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
   2. L_{dn} or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

2. Within the 65 CNEL or L_{dn} noise contour of a freeway or expressway railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

☐ **5.507.4.1.1 Noise exposure where noise contours are not readily available.** Buildings exposed to a noise level of 65 dBL_{eq}-1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

☐ **5.507.4.2 Performance method.** For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (L_{eq}-1Hr) of 50 dBA in occupied areas during any hour of operation.

☐ **5.507.4.2.1 Site features.** Exterior features such as sound wall or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

SECTION 5.504.1 – POLLUTANT CONTROL

☐ **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 Finish material pollutant control. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

☐ **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.

TABLE 5.504.4.1 – ADHESIVE VOC LIMIT
(See CALGreen for TABLE)

TABLE 5.504.4.2 – SEALANT VOC LIMIT
(See CALGreen for TABLE)

☐ **5.504.4.3 Paints and coatings.** Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3, shall be determined by classifying the coating as a Flat, Nonflat, or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

TABLE 5.504.4.3 – VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS
(See CALGreen for TABLE)

☐ **5.504.4.3.1 Aerosol paints and coatings.** Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of *California Code of Regulations*, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

1. Manufacturer's product specification.

☐ **5.507.4.2.2. Documentation of compliance.** An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

☐ **5.507.4.3 Interior sound transmission.** Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.

Note: Examples of assemblies and their various STC rating may be found at the California Office of Noise Control: www. https://www.tsib.org/files/STC_IIC_Ratings.pdf

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.

A DSA Project Submittal Guideline is a compilation of recommendations based on code, referenced standards, DSA bulletin/policy/procedure/interpretation documents, and DSA practices. These guidelines are intended to give the design profession helpful information and insight into DSA's project application, submittal, and review processes. Guidelines are provided by DSA in support of DSA's goals of providing stakeholders information they need to facilitate working smoothly with DSA, and to help standardize practices among the four DSA Regional Offices.

Compliance with a Guideline does not assure that a project is complete or that it adheres to the requirements of the California Building Standards Code (Title 24 of the California Code of Regulations) or all DSA requirements. Additional information may be required, depending on project complexity or site conditions. For complete submittal requirements see forms *DSA 1: Application for Approval of Plans and Specifications* and *DSA 3: Project Submittal Checklist.*

2. Field verification of on-site product containers.

☐ **5.504.4.4 Carpet systems.** All carpet installed in the building interior shall meet at least one of the following 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, Version1.1, 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 Collaborative for High Performance Schools California (CA-CHPS) Criteria 2014 and listed in the CHPS High Performance Product Database.

☐ **5.504.4.4.1 Carpet cushion.** All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute's Green Label program**.**

☐ **5.504.4.4.2 Carpet adhesive.** All carpet adhesive shall meet the requirements of Table 5.504.4.1.

☐ **5.504.4.5 Composite wood products.** Hardwood plywood, particleboard, and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted by the ATCM must meet the specified emission limits as shown in Table 5.504.4.5.

TABLE 5.504.4.5 – FORMALDEHYDE LIMITS
(See CALGreen for TABLE)

☐ **5.504.4.6 Resilient flooring systems.** For 80 percent 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) FloorScore 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, Version 1.1, February 2010;
3. Compliant with the Collaborative for High Performance Schools California (CA-CHPS) Criteria 2014 and listed in the CHPS High Performance Product Database; or
4. Products certified under the UL GREENGUARD Gold (formerly the Greenguard Children & Schools program).

☐ **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 prior to occupancy 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.

Exception: Existing mechanical equipment.

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

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LICENSED ARCHITECT
KATHRYN ANNE HICKS
938079
2-28-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

MESA MS SPED SCIENCE BUILDING
2555 S HALCYON RD, ARROYO GRANDE, CA

CAL GREEN REQUIREMENTS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER
KH

DRAWN BY DK | **CHECKED BY** KF

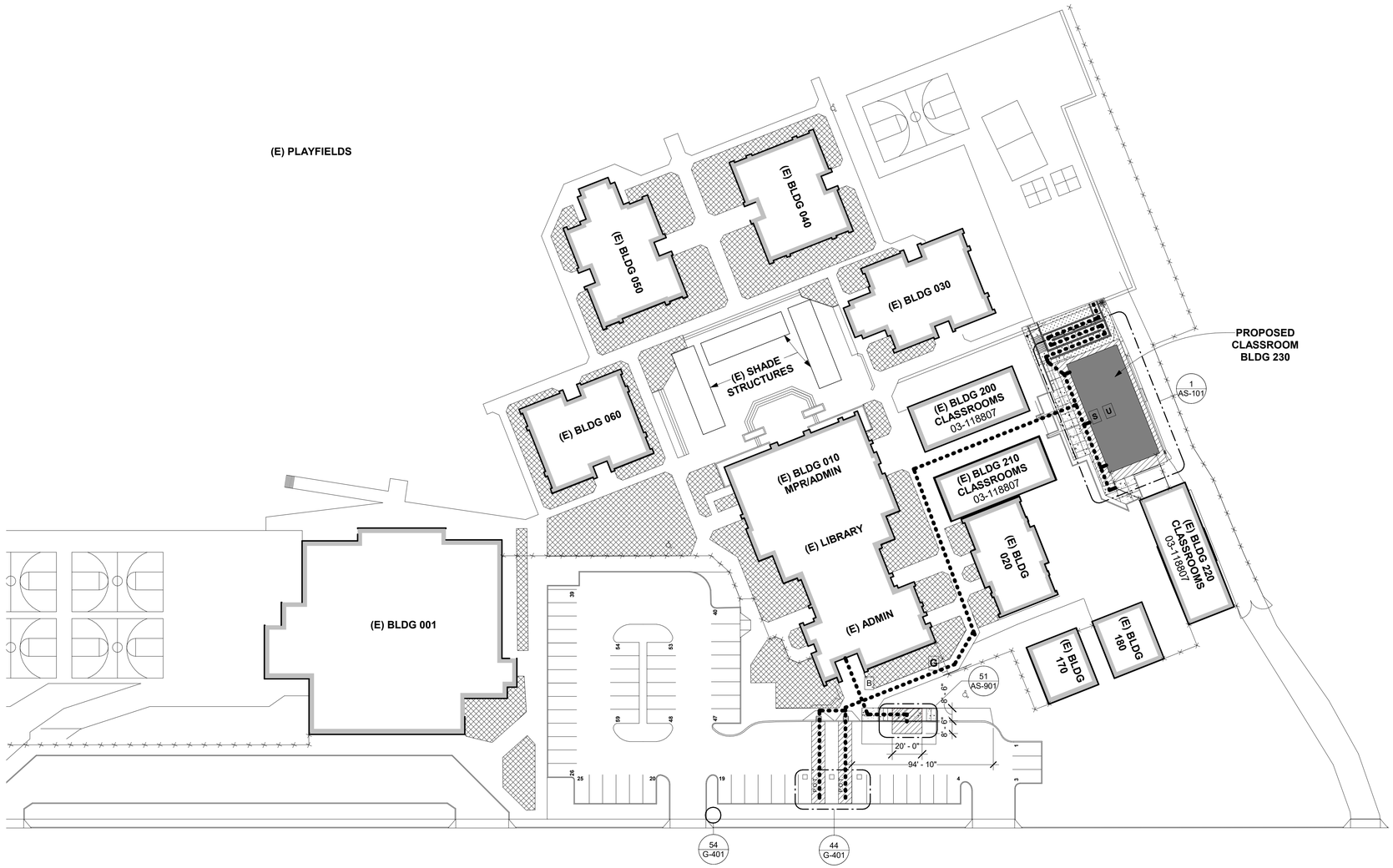
DATE
APRIL 23, 2026

PROJECT NUMBER
0822-03-ED25

SHEET
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1 ACCESS SITE PLAN

A-201 | G-401 SCALE: 1" = 40'-0"



NOTE:
CONTRACTOR TO PERMANENTLY AFFIX THE FOLLOWING LETTERING IN THE BLANK SPACE(S):

"CITY OF ARROYO GRANDE P.D."
"AT (805) 473-5100"

NOTE:
(E) TOW AWAY SIGN PLAQUE TO REMAIN

APPROVED UNDER DSA #03-118030

54 ACC. TOWING SIGN - EXISTING

G-401 | G-401 NTS



NOTE:
(E) ACCESSIBLE PARKING SIGN PLAQUE TO REMAIN

APPROVED UNDER DSA #03-118030

44 ACC. PARKING SIGN - EXISTING

G-401 | G-401 NTS

PARKING

LOT 1

TOTAL NUMBER OF PARKING SPACES 59

	REQUIRED	PROVIDED
NUMBER OF ACCESSIBLE SPACES *TABLE 11B-208.2*	3	3
NUMBER OF VAN SPACES *11B-208.2.4*	1	1

LEGEND

- PROPOSED BUILDING
- EXISTING BUILDING
- PROPOSED AREA UNDER HORIZONTAL PROJECTION OF ROOF
- EXISTING LANDSCAPING
- PATH OF TRAVEL
- U ACCESSIBLE STUDENT RESTROOM
- S ACCESSIBLE STAFF RESTROOM
- PERIMETER ENCLOSURE FENCES AND GATES
- G EXISTING ACCESSBILE PEDESTRIAN GATE
- B EXISTING BICYCLE PARKING

CERTIFICATION HISTORY

CAMPUS BUILDINGS

BUILDING NUMBER	TYPE	A#	YEAR
BUILDING 010	ADMIN/MPR/LI...	#51515	1988 CONSTRUCTED
BUILDING 020	CLASSROOMS	#51515	1988 CONSTRUCTED
BUILDING 030	CLASSROOMS	#51515	1988 CONSTRUCTED
BUILDING 040	CLASSROOMS	#51515	1988 CONSTRUCTED
BUILDING 050	CLASSROOMS	#51515	1988 CONSTRUCTED
BUILDING 060	CLASSROOMS	#51515	1988 CONSTRUCTED
BUILDING 001	GYM	03-101122	1998 CONSTRUCTED
BUILDING 170	CLASSROOMS	63628	1996 PLACED
BUILDING 180	CLASSROOMS	63628	1996 PLACED
BUILDING 200	CLASSROOMS	03-118807	2019 CONSTRUCTED
BUILDING 210	CLASSROOMS	03-118807	2019 CONSTRUCTED
BUILDING 220	CLASSROOMS	03-118807	2019 CONSTRUCTED
BUILDING 230	CLASSROOMS	03-125727	2025 PROPOSED
SHADE STRUCTURES	N/A	03-118030	2017 CONSTRUCTED

CERTIFICATION HISTORY

A#	YEAR	SCOPE	STATUS
51515	1988	ADMIN & CLASSROOM BUILDINGS	#2 CLOSED (2017)
63628	1996	RELOCATABLE CLASSROOM BUILDINGS	#1 CERTIFIED
03-101122	1998	GYM	#1 CERTIFIED
03-118030	2017	SHADE STRUCTURES	#1 CERTIFIED
03-118807	2019	MODULAR CLASSROOM BUILDINGS	#1 CERTIFIED
03-125727	2025	CLASSROOM BUILDING	PROPOSED

PATH OF TRAVEL

ACCESSIBLE PATH OF TRAVEL AS INDICATED ON THE PLAN IS A BARRIER-FREE ACCESS ROUTE

FLOOR OR GROUND SURFACE *(CBC 11B-302.1)*
SURFACE IS STABLE, FIRM, AND SLIP RESISTANT.

SLOPE *(CBC 11B-403.3)*
THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20 (5%). THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48 (2%). THE RUNNING SLOPE OF SIDEWLAKS SHALL NOT EXCEED THE GENERAL GRADE ESTABLISHED FOR THE ADJACENT STREET OR HIGHWAY.

CHANGES IN LEVEL *(CBC 11B-403.3)*
- CHANGES IN LEVEL OF 1/4" HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL AND WITHOUT EDGE TREATMENT. *(CBC 11B-303.2)*
- CHANGES IN LEVEL BETWEEN 1/4" HIGH MINIMUM AND 1/2" HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2. *(CBC 11B-303.3)*

CLEARANCES *(CBC 11B-403.5.1)*
THE CLEAR WIDTH SHALL BE 36" MINIMUM
1. THE CLEAR WIDTH SHALL BE PERMITTED TO BE REDUCED TO 32" MINIMUM FOR A LENGTH OF 24" MAXIMUM PROVIDED THAT REDUCED WIDTH SEGMENTS ARE SEPARATED BY SEGMENTS THAT ARE 48" LONG MINIMUM AND 36" WIDE MINIMUM. *(EXCEPTION 1)*
2. THE CLEAR WIDTH FOR WALKING SURFACES IN CORRIDORS SERVING AN OCCUPANT LOAD OF 10 OR MORE SHALL BE 44" MINIMUM. *(EXCEPTION 2)*
3. THE CLEAR WIDTH FOR SIDEWALKS AND WALKS SHALL BE 48" MINIMUM *(EXCEPTION 3)*
4. THE CLEAR WIDTH FOR ACCESSIBLE ROUTES TO TOILET COMPARTMENTS SHALL BE 44" *(EXCEPTION 4)*

PROTRUDING OBJECTS *(CBC 11B-307)*
- ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM *(CBC 11B-307.4)*
- OBJECTS WITH LEADING EDGES MORE THAN 27" AND NOT MORE THAN 80" ABOVE THE FINISH FLOOR OR GROUND SHALL PROTRUDE 4" MAXIMUM HORIZONTALLY INTO THE CIRCULATION PATH *(CBC 11B-307.2)*

RESPONSIBLE CHARGE

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:
THE PATH OF TRAVEL IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS, AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS, OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS, AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS, OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED ON THESE CONSTRUCTION DOCUMENTS.

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

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CONSULTANT

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2555 S HALCYON RD, ARROYO GRANDE, CA

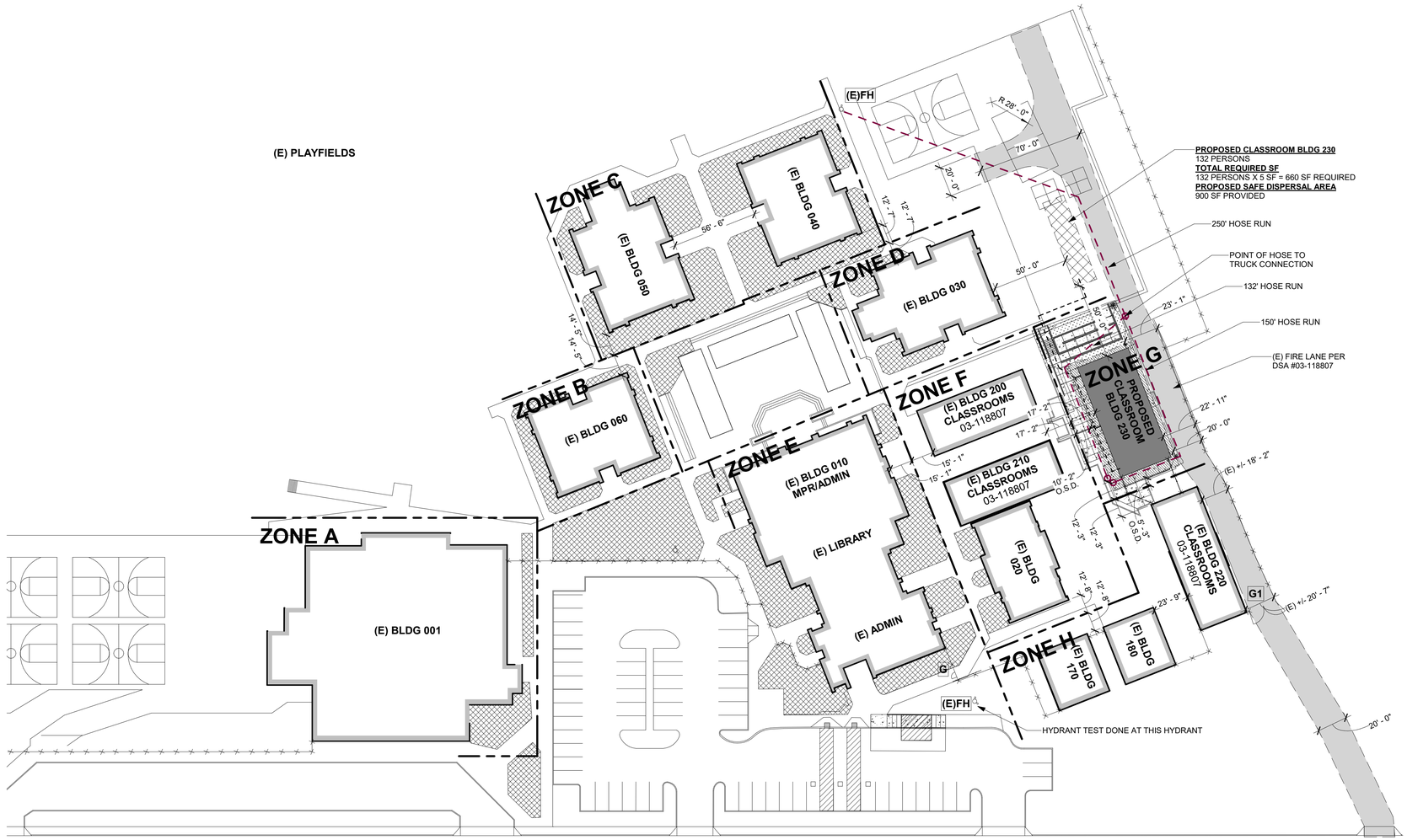
ACCESS COMPLIANCE AND OVERALL CAMPUS PLAN

NO.	REVISION	DATE

PROJECT MANAGER KH
DRAWN BY DK | **CHECKED BY** KF
DATE APRIL 23, 2026
PROJECT NUMBER 0822-03-ED25
SHEET G-401

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S HALCYON ROAD

1 FIRE & LIFE SAFETY PLAN

A-201 | G-402 | SCALE: 1" = 40'-0"

LEGEND

- PROPOSED BUILDING
- EXISTING BUILDINGS
- P.O.T. SAFE DISPERSAL P.O.T.
- SAFE DISPERSAL AREA
- AREAS UNDER HORIZ. PROJECTION OF ROOFS AND COVERED WALKWAYS
- 20' WIDE FIRE APPARATUS ACCESS ROAD U.N.O. - PAINT CURB RED, PAINT WORDS "NO PARKING, FIRE LANE" AT 50' INTERVALS (NOT REQUIRED IN PLAY AREA)
- FIRE HYDRANT
- G1 (E) 20' WIDE ROLLING VEHICLE GATE W/ KNOX BOX DSA # 03-118807
- PERIMETER ENCLOSURE FENCES AND GATES
- FIRE HOSE RUN

BUILDING HEIGHT & AREA

ZONE A UNAFFECTED	**ZONE G** STRUCTURES INCLUDED WITHIN AREA: • PROPOSED BUILDING 230 BASIC ALLOWABLE BUILDING HEIGHT & AREA BASED ON THE FOLLOWING: TYPE OF CONSTRUCTION: VB OCCUPANCY: E FIRE SPRINKLERS: NO NUMBER OF STORIES: 1 **ALLOWABLE HEIGHT & AREA** OCCUPANCY GROUP E (508.3): ALLOWABLE HEIGHT (CBC TABLE 504.3): 40' - 0" ALLOWABLE NO. OF STORIES (CBC TABLE 504.4): 1 BASIC ALLOWABLE BUILDING AREA: 9,500 SF **PROPOSED HEIGHT & AREA** BUILDING HEIGHT: 14' - 11" COMPLIES NUMBER OF STORIES: 1 COMPLIES BUILDING AREA: 2,808 SF COMPLIES
ZONE B UNAFFECTED	
ZONE C UNAFFECTED	
ZONE D UNAFFECTED	
ZONE E UNAFFECTED	
ZONE F UNAFFECTED	
ZONE H UNAFFECTED	

LFA REVIEW

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

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

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

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

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

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

PROJECT INFORMATION	
School District/Owner:	Lucia Mar Unified School District
Project Name/School:	Mesa Middle School Classroom Building
Project Address:	2555 S. Halcyon Rd., Arroyo Grande, CA 93420

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

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

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

School District Acceptance of Acceptable Design Alternates

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

Accepted by: Andy Stenton Title: EVCSA Director

Signature: Date: 9-16-25

LOCAL FIRE AUTHORITY (LFA) INFORMATION			
LFA Agency Name:	San Luis Obispo County Fire Department		
LFA Review Official:	Nick Terrones		
Title:	Fire Captain/Deputy Fire Marshal	Work Phone:	(805) 543-4244
Work Email:	thomas.terrones@fire.ca.gov		

LFA Reviewer's Signature: Date: 8/26/25

HYDRANT TEST

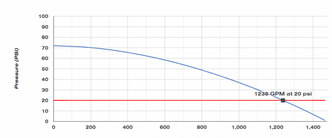
Mid-Coast Fire Protection, Inc.
1342 Ramona Ave. • Grover Beach, CA • 93433
Ph: 805/466-0211 • Fax: 805/466-0266
Phone: 805/489-2889
Contractor's License C-16 #579499 • CA State Fire Marshal License E-1651

HYDRANT # & LOCATION Mesa Middle School, 2555 S. Halcyon Rd. AG, CA 93420 DATE: 3/24/2025
TEST BY: Kyle Greenwell DAY: Monday TIME OF DAY: 7:30 AM MIN. OF FLOW 10
WATER SUPPLIED BY: City Water
PURPOSE OF TEST: Annual Test

FLOW DATA			
FLOW HYDRANT(S):	#1	#2	#3
SIZE OPENING:	2.5		
COEFFICIENT:	0.906		
PITOT READING:	21.2		
GPM:	778	0	0
TOTAL FLOW DURING TEST:	778 GPM		
STATIC READING:	72 PSI	RESIDUAL:	50 PSI
RESULTS:	1238 GPM	AT 0 PSI	1475 GPM
ESTIMATED CONSUMPTION:	7777 GAL.		

REMARKS:

GPM at 20 psi: 1238
Class: A
Marking color: Green
% Pressure Drop: 31%



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LICENSED ARCHITECT KATHRYN ANNE HICKS 938079 2-28-27 RENEWAL DATE STATE OF CALIFORNIA

CONSULTANT

MESA MS SPED SCIENCE BUILDING
2555 S HALCYON RD, ARROYO GRANDE, CA

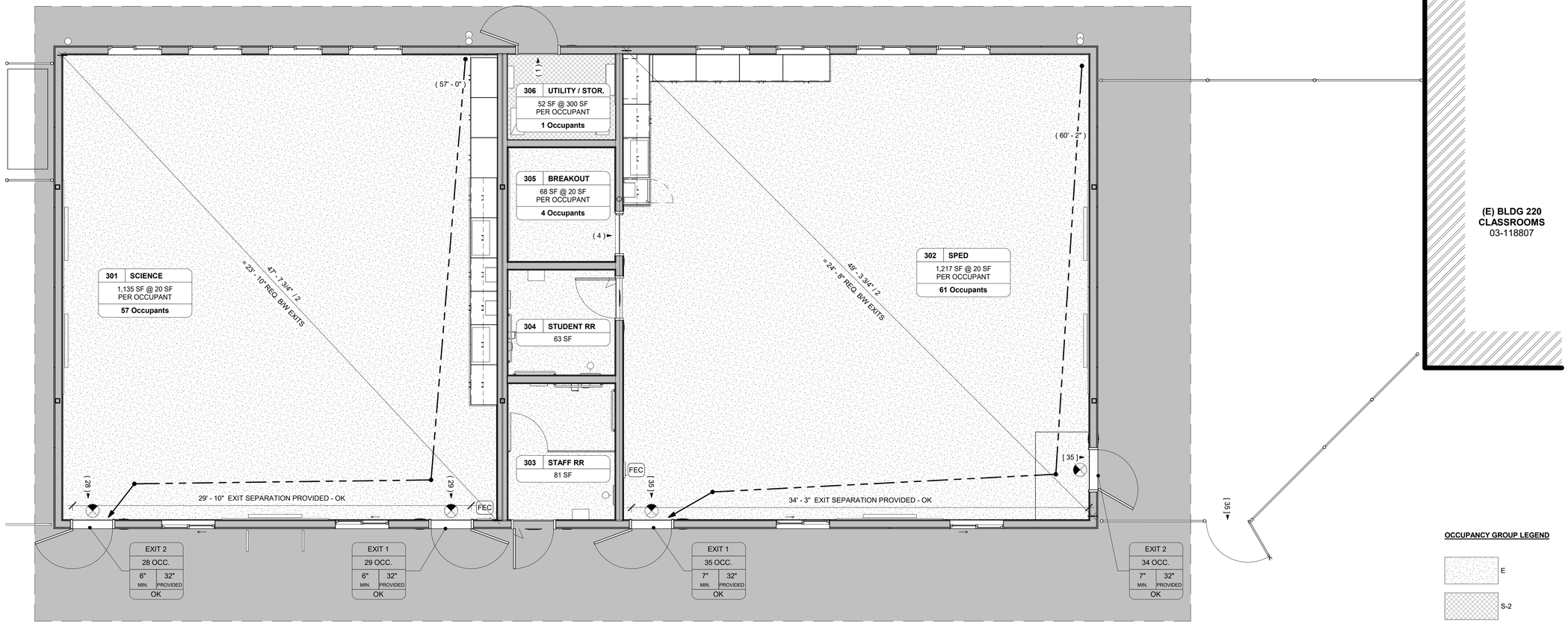
FIRE LIFE SAFETY SITE PLAN

NO.	REVISION	DATE

PROJECT MANAGER	KH
DRAWN BY	DK
CHECKED BY	KF
DATE	APRIL 23, 2026
PROJECT NUMBER	0822-03-ED25
SHEET	G-402

DSA BACK CHECK 2

4/20/2026 6:43:06 PM
Autodesk Docs://0822-03-ED25-Mesa Middle School Classroom/0822-03_Mesa Middle School - Science & SPED Classroom.rvt



1 CODE ANALYSIS

A-201 | G-403 SCALE: 1/4" = 1'-0"

OCCUPANCY GROUP LEGEND

- E
- S-2
- UNDER ROOF

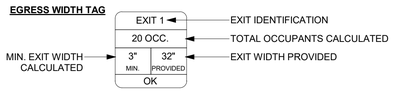
LEGEND

NOTE: REFER TO ***SHEET A-103*** FOR TACTILE SIGNS.

EGRESS PATH OF TRAVEL

- [10] ► COMBINED OCCUPANT COUNT ALONG PATH OF TRAVEL
- (##' - ##") MAXIMUM TRAVEL DISTANCE FROM REMOTE POINT ON STORY TO AN EXIT
- **(12)** ◄ NUMBER OF OCCUPANTS EXITING SPACE

EGRESS WIDTH TAG



FEC FIRE EXTINGUISHER & RECESSED CABINET 2A:10B:C RATING

ILLUMINATED EXIT SIGN, ARROW INDICATES DIRECTIONAL CHEVRON REFER TO INTERIOR ELEVATIONS AND RCP FOR MOUNTING LOCATION

BUILDING DATA

PROPOSED CLASSROOMS

JURISDICTION	CA
CODE YEAR	2022

TYPE OF CONSTRUCTION	VB
SPRINKLER TYPE	N/A
FIRE SEPARATION	N/A

Occupancy Type	Area
E	2,571 SF
S-2	51 SF
UNDER ROOF	1,308 SF
GROSS NEW AREA*	3,930 SF

HEIGHT AND AREA

BUILDING AREA
PER SECTION 508.3.1, USE AREA REQUIREMENTS FOR MOST RESTRICTIVE OCCUPANCY GROUP PER STORY TABLE 506.2

OCCUPANCY GROUP	DESIGNED AREA	ALLOWABLE AREA	
E	3,930 SF	9,500 SF	COMPLIES

BUILDING HEIGHT IN FEET
CBC 504.3

OCCUPANCY GROUP	DESIGNED MAXIMUM HEIGHT	ALLOWABLE HEIGHT ABOVE GRADE PLANE	
E	14' - 11"	40' - 0"	COMPLIES

BUILDING HEIGHT IN STORIES
CBC 504.4

OCCUPANCY GROUP	DESIGNED NUMBER OF STORIES	ALLOWABLE NUMBER OF STORIES	
E	1	1	COMPLIES

EXITING

MINIMUM EXITS PER STORY
TABLE 1006.2.1

OCCUPANCY GROUP	TOTAL OCCUPANT LOAD BY STORY	MINIMUM NUMBER OF EXITS	MAXIMUM COMMON PATH OF EGRESS ALLOWED FOR 1 EXIT	MAXIMUM TRAVEL DISTANCE ALLOWED FOR 1 EXIT
E	128	2	N/A	N/A
S-2	1	1	49	100'

MAXIMUM EXIT ACCESS TRAVEL DISTANCE & DEAD-END CORRIDOR LENGTH

OCCUPANCY GROUP	MAXIMUM EXIT ACCESS TRAVEL DISTANCE *TABLE 1017.2*	MAXIMUM DEAD-END CORRIDOR LENGTH *SECTION 1020.4*
E	200'	20'
S-2	300'	20'

MAXIMUM EXIT ACCESS TRAVEL DISTANCE SERVING EACH SPACE SHOULD BE AT A MAXIMUM THE VALUE ABOVE FOR EACH OCCUPANCY GROUP

DEAD-END CORRIDOR LENGTH LIMITS ONLY APPLY WHERE MORE THAN ONE EXIT OR EXIT ACCESSDOORWAY IS REQUIRED

DEAD-END CORRIDOR LENGTH IS NOT LIMITED WHERE THE LENGTH OF THE DEAD-END CORRIDOR IS LESS THAN 2.5 TIMES OF ITS LEAST WIDTH

EGRESS

CBC TABLE 1004.5, 1006.2.1, & 1006.3.2

MORE THAN ONE EXIT MUST BE PROVIDED IF THE SPACE OCCUPANT LOAD OR MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE ARE EXCEEDED. MORE EXITS MAY BE REQUIRED UNDER HIGH OCCUPANT LOAD OR OTHER SPECIAL CONDITIONS.

OCCUPANCY GROUP	NO.	SPACE NAME	FUNCTION OF SPACE	DESIGNED AREA USABLE*	OLF	CUM. OCC. LOAD OF SPACE	EXITING: MAX. SINGLE EXIT CUMULITIVE LOAD OF SPACE	EXITING: MIN. NUMBER OF EXITS PER SPACE	EXITING: MAX. COMMON PATH OF EGRESS ALLOWED FOR SINGLE EXIT
E	301	SCIENCE	EDUCATIONAL: CLASSROOM AREA	1,135 SF	20	57	49	2	N/A
E	302	SPED	EDUCATIONAL: CLASSROOM AREA	1,217 SF	20	61	49	2	N/A
E	303	STAFF RR	ACCESSORY USE	81 SF	20	5	49	1	75'
E	304	STUDENT RR	ACCESSORY USE	63 SF	20	4	49	1	75'
E	305	BREAKOUT	EDUCATIONAL: CLASSROOM AREA	68 SF	20	4	49	1	75'
				2,563 SF		131			
S	306	UTILITY / STOR.	ACCESSORY STORAGE AREAS; MECHANICAL EQUIPMENT ROOM	52 SF	300	1	29	1	
				52 SF		1			
				2,615 SF		132			

*USABLE AREA IS TO FINISH SURFACE OF A SPACE

EGRESS LIGHTING

1. SEE ELECTRICAL PLANS FOR EMERGENCY LIGHTING

PATH OF TRAVEL

ACCESSIBLE PATH OF TRAVEL AS INDICATED ON THE PLAN IS A BARRIER-FREE ACCESS ROUTE

FLOOR OR GROUND SURFACE *(CBC 11B-302.1)*
SURFACE IS STABLE, FIRM, AND SLIP RESISTANT.

SLOPE *(CBC 11B-403.3)*
THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20 (5%). THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48 (2%). THE RUNNING SLOPE OF SIDEWLAKS SHALL NOT EXCEED THE GENERAL GRADE ESTABLISHED FOR THE ADJACENT STREET OR HIGHWAY.

CHANGES IN LEVEL *(CBC 11B-403.3)*

- CHANGES IN LEVEL OF 1/4" HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL AND WITHOUT EDGE TREATMENT. *(CBC 11B-303.2)*
- CHANGES IN LEVEL BETWEEN 1/4" HIGH MINIMUM AND 1/2" HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2. *(CBC 11B-303.3)*

CLEARANCES *(CBC 11B-403.5.1)*
THE CLEAR WIDTH SHALL BE 36" MINIMUM

1. THE CLEAR WIDTH SHALL BE PERMITTED TO BE REDUCED TO 32" MINIMUM FOR A LENGTH OF 24" MAXIMUM PROVIDED THAT REDUCED WIDTH SEGMENTS ARE SEPARATED BY SEGMENTS THAT ARE 48" LONG MINIMUM AND 36" WIDE MINIMUM. *(EXCEPTION 1)*
2. THE CLEAR WIDTH FOR WALKING SURFACES IN CORRIDORS SERVING AN OCCUPANT LOAD OF 10 OR MORE SHALL BE 44" MINIMUM. *(EXCEPTION 2)*
3. THE CLEAR WIDTH FOR SIDEWALKS AND WALKS SHALL BE 48" MINIMUM *(EXCEPTION 3)*
4. THE CLEAR WIDTH FOR ACCESSIBLE ROUTES TO TOILET COMPARTMENTS SHALL BE 44" *(EXCEPTION 4)*

PROTRUDING OBJECTS *(CBC 11B-307)*

- ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM *(CBC 11B-307.4)*
- OBJECTS WITH LEADING EDGES MORE THAN 27" AND NOT MORE THAN 80" ABOVE THE FINISH FLOOR OR GROUND SHALL PROTRUDE 4" MAXIMUM HORIZONTALLY INTO THE CIRCULATION PATH *(CBC 11B-307.2)*

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KATHRYN ANNE NICOL
938079
2-28-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

MESA MS SPED SCIENCE BUILDING
2555 S HALCYON RD, ARROYO GRANDE, CA

BUILDING CODE ANALYSIS

NO.	REVISION	DATE

PROJECT MANAGER
KH

DRAWN BY DK | **CHECKED BY** KF

DATE
APRIL 23, 2026

PROJECT NUMBER
0822-03-ED25

SHEET
G-403

DSA BACK CHECK 2

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MESA MIDDLE SCHOOL
SCIENCE AND SPED CLASSROOMS

ARROYO GRANDE, CALIFORNIA

PREPARER'S STATEMENT

THIS PLAN SET WAS PREPARED BY:
RRM DESIGN GROUP
3765 S. HIGUERA STREET, SUITE 102
SAN LUIS OBISPO, CA 93401

UNDER THE DIRECTION OF:
ROBERT CAMACHO, P.E. No. 76597

DISTRICT/ REPRESENTATIVE

LUCIA MAR UNIFIED SCHOOL DISTRICT

CONTACT: ANDY STENSON
ADDRESS: 222 STANLEY AVENUE
ARROYO GRANDE, CA 93420
PHONE: (805) 474-3000
EMAIL: ANDY.STENSON@LMUSD.ORG

PROJECT DESCRIPTION

CONSTRUCTION OF NEW 2-CLASSROOM BUILDING WITH ABOVE GROUND AND UNDERGROUND IMPROVEMENTS LOCATED IN EXISTING SCHOOL SITE. ASSOCIATED IMPROVEMENTS INCLUDE SITE WORK, GRADING, PAVING AND UTILITIES.

STORMWATER COMPLIANCE

PCRS:

THE PROJECT LIES INSIDE OF THE COUNTY MS4 COVERAGE AREA AND IS SUBSEQUENTLY NOT EXEMPT FROM CENTRAL COAST POST-CONSTRUCTION STORMWATER REQUIREMENTS PER RESOLUTION R3-2013-0032

NPDES:

THE PROJECT AREA OF DISTURBANCE IS UNDER 1 ACRE AND IS SUBSEQUENTLY EXEMPT FROM COVERAGE UNDER THE CONSTRUCTION STORMWATER GENERAL PERMIT ORDER 2022-0057-DWQ.

ABBREVIATIONS

AB	AGGREGATE BASE	MAX	MAXIMUM
AC	ASPHALT	MIN	MINIMUM
AP	ANGLE POINT	NTS	NOT TO SCALE
ARV	AIR RELEASE VALVE	PL	PROPERTY LINE
BCR	BEGIN CURVE	PCL	PARCEL
BW	BACK OF WALK	PCC	PORTLAND CEMENT CONCRETE
CB	CATCH BASIN	POC	POINT ON CURVE OR POINT OF CONNECTION
CL	CENTERLINE		
CMP	CORRUGATED METAL PIPE	POT	POINT OF TANGENT
CONC	CONCRETE	PRC	POINT OF REVERSE CURVE
DI	DRAIN INLET	ROW	RIGHT OF WAY
DIP	DUCTILE IRON PIPE	RP	REDUCED PRESSURE
EG	EXISTING GRADE	STA	STATION
EX	EXISTING	STD	STANDARD
EL	ELEVATION	TBD	TO BE DETERMINED
FDC	FIRE DEPARTMENT CONNECTION	TBM	TEMPORARY BENCHMARK
FG	FINISHED GRADE	TC	TOP OF CURB
FL	FLOWLINE	TF	TOP OF FOOTING
FS	FINISHED SURFACE	TP	TOP OF PAVEMENT
FP	FINISHED PAD	TG	TOP OF GRATE
GB	GRADE BREAK	TYP	TYPICAL
HP	HIGH POINT	TW	TOP OF WALL
IPS	IRON PIPE SIZE	UNO	UNLESS NOTED OTHERWISE
INV	INVERT	WSE	WATER SURFACE ELEVATION
LP	LOW POINT		

LEGEND

OH	EX OVERHEAD POWERLINE
SS	EX SANITARY SEWER LINE
SD	EX STORM DRAIN LINE
W	EX WATER LINE
E	EX ELECTRICAL LINE
SS	SANITARY SEWER LINE
SD	STORM DRAIN LINE
W	DOMESTIC WATER LINE
FW	FIRE WATER LINE
	SAWCUT LINE
	EASEMENT LINE
	RETAINING WALL
X X X	FENCE
	EDGE OF PAVEMENT
	TRUNCATED DOMES/ WARNING SURFACE
	LANDSCAPE AREA
	ASPHALT PAVEMENT
	CONCRETE

	FIRE HYDRANT ASSEMBLY
2:1	SLOPE DIRECTION AND GRADE
	GATE VALVE
	SIGN
	AREA DRAIN
	DOMESTIC LATERAL AND METER
	CONCRETE CATCH BASIN
	SDMH PER CITY STD
	SSMH PER CITY STD
	DRY UTILITIES

PROJECT SOILS REPORT

REPORT/ADDENDUM TITLE	PREPARED BY	DATE	FILE NO.	CGS APPROVAL DATE (IF APPLICABLE)	APPROVAL REF# (IFAPPLICABLE)
UPDATED GEOTECHNICAL ENGINEERING AND GEOLOGIC HAZARDS REPORT MESA MIDDLE SCHOOL SPED/SCIENCE BUILDING 2555 SOUTH HALCYON ROAD ARROYO GRANDE, CALIFORNIA	EARTH SYSTEMS PACIFIC 4378 OLD SANTA FE ROAD SAN LUIS OBISPO, CA 93401 P: (805) 544-3276	04/03/2025	301024-006	-	-

SOIL CORROSIVITY

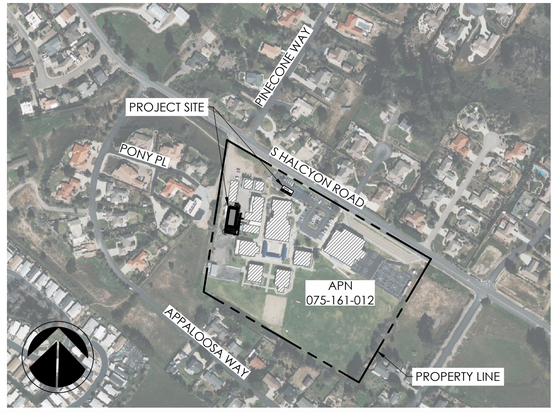
SOILS ARE DEFINED AS CORROSIVE. CONTRACTOR TO FOLLOW RECOMMENDATIONS IN THE GEOTECHNICAL REPORT AS REFERENCED AS PART OF THIS DRAWING SET.

TOPOGRAPHIC SURVEY

DATUM: THE HORIZONTAL AND VERTICAL DATUM FOR THIS SURVEY IS BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, CCS83, ZONE 3, AND THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) BASED LOCALLY UPON GPS SATELLITE OBSERVATIONS.

PROJECT SITE

SCALE: NTS



CIVIL SHEET INDEX

11 SHEETS

SHEET NUMBER	SHEET TITLE
C-1.0	TITLE SHEET
C-1.1	GENERAL NOTES
C-2.1	EXISTING CONDITIONS AND SITE PREPARATION
C-3.1	CONSTRUCTION AND UTILITY PLAN
C-4.1	GRADING AND DRAINAGE PLAN
C-4.2	GRADING AND DRAINAGE PLAN
C-4.3	RETAINING WALL PROFILES
C-5.1	DETAILS
C-6.1	HORIZONTAL CONTROL PLAN
C-7.1	BMP NOTES
C-7.2	BMP PLAN

DSA FILE #: x
DSA APP #: x
DSA TRACKING #: x

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REGISTERED PROFESSIONAL ENGINEER
ROBERT A. CAMACHO
No. 76597
CIVIL
STATE OF CALIFORNIA

CONSULTANT

LICENSED ARCHITECT
KATHRYN ANNE NICOL
C38079
2-28-27
RENEWAL DATE
STATE OF CALIFORNIA

MESA MIDDLE SCHOOL SCIENCE AND SPED CLASSROOMS
2555 S HALCYON RD, ARROYO GRANDE, CA

TITLE SHEET

NO.	REVISION	DATE

PROJECT MANAGER: RAG
DRAWN BY: KC
CHECKED BY: RAC
DATE: APRIL 23, 2026
PROJECT NUMBER: 0822-03-ED25
SHEET: C-1.0

DSA BACK CHECK 2

N:\0801\0822-03-ED25-Mesa-MS-New-Science-SPED-Class-Bldg\Engineering\ConDocs\Sheet-Files\C-1.x_Title and General Notes.dwg, C-1.0, Apr 21, 2026, 8:52am, RAGomez

GENERAL NOTES

1. NO CONSTRUCTION SHALL BE STARTED WITHOUT PLANS APPROVED BY THE DIVISION OF THE STATE ARCHITECT. THE SCHOOL DISTRICT SHALL BE NOTIFIED AT LEAST FORTY-EIGHT HOURS PRIOR TO STARTING OF CONSTRUCTION. ANY CONSTRUCTION DONE WITHOUT APPROVED PLANS OR PRIOR NOTIFICATION TO THE SCHOOL DISTRICT WILL BE REJECTED AND WILL BE AT THE CONTRACTOR'S AND/OR OWNER'S RISK.
2. ALL CONSTRUCTION WORK AND INSTALLATIONS SHALL CONFORM TO THE DIVISION OF THE STATE ARCHITECT APPROVED DRAWINGS AND SPECIFICATIONS, AND ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE INSPECTOR OF RECORD.
3. ALL GRADING SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER AND THE PROJECT SOILS REPORT (SEE SHEET C-1.0 FOR GEOTECHNICAL ENGINEER CONTACT AND REPORT DETAILS).
4. RECORD PLANS ARE TO BE PREPARED AFTER CONSTRUCTION IS COMPLETED. THE CIVIL ENGINEER CERTIFYING THE IMPROVEMENTS AND PREPARING THE RECORD PLANS SHALL BE PRESENT WHEN THE FINAL INSPECTION IS MADE.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO POTHOLE AND VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND IMPROVEMENTS PRIOR TO START OF CONSTRUCTION. EXISTING UTILITIES AND IMPROVEMENTS SHOWN ON THE CONSTRUCTION PLANS ARE FROM RECORD SOURCES AND ARE SHOWN FOR DESIGN PURPOSES ONLY.
6. ALL UTILITY COMPANIES MUST BE NOTIFIED PRIOR TO THE START OF CONSTRUCTION BY THE CONTRACTOR.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO TELEPHONE UNDERGROUND SERVICE ALERT (USA) TOLL FREE AT 1-800-642-2444 A MINIMUM OF FORTY-EIGHT WORKING HOURS PRIOR TO THE START OF CONSTRUCTION. FOR BEST RESPONSE, PROVIDE AS MUCH NOTICE AS POSSIBLE, UP TO TEN WORKING DAYS.
8. CONTRACTOR TO VERIFY ALL UTILITY POINT OF CONNECTIONS FOR ALL UTILITIES I.E. POTHOLE EACH SIDE, FIELD VERIFY DEPTHS THROUGHOUT FOR ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.
9. 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.
10. CONSTRUCTION CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR LOCATING OR HAVING LOCATED ALL UNDERGROUND UTILITIES AND RELATED FACILITIES AND FOR PROTECTING SAME DURING THE COURSE OF CONSTRUCTION. ALL UTILITIES THAT ARE NOT A MEMBER OF USA MUST ALSO BE NOTED.
11. THE CONTRACTOR SHALL PROVIDE A LEGIBLE HARD AND DIGITAL COPY AND COMPLETE SET OF PLANS IDENTIFYING ALL MODIFICATIONS MADE DURING CONSTRUCTION TO THE DESIGN ENGINEER FOR THE RECORD DRAWINGS.
12. ANY PROPOSED DEVIATIONS FROM THE PLANS MUST BE SUBMITTED TO THE DESIGN ENGINEER FOR REVIEW AND APPROVAL, INCLUDING FIELD REVISIONS REQUESTED BY THE INSPECTOR OF RECORD.
13. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OR PROPER RESETTING OF ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS. ANY SURVEY MONUMENTS DESTROYED BY THE CONTRACTOR SHALL BE REPLACED IN ACCORDANCE WITH THE STATE LAND SURVEYORS ACT AT THE CONTRACTOR'S EXPENSE.
14. THE DESIGN OF THE SURFACE AND UNDERGROUND IMPROVEMENTS IS BASED ON RECORD INFORMATION (SURVEYS AND DRAWINGS). IMMEDIATELY AFTER THE CONSTRUCTION CONTRACT IS AWARDED, THE CONTRACTOR SHALL VERIFY THE RELATIVE ELEVATIONS AS SPECIFIED ON THESE PLANS AND NOTIFY THE DESIGN ENGINEER IF THERE ARE ANY DISCREPANCIES. THE CONSTRUCTION DRAWINGS ELEVATIONS WILL THEN BE MODIFIED ACCORDINGLY, AND A REVISED SET FURNISHED TO THE CONTRACTOR. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY REQUIRED REWORK IF CONSTRUCTION BEGINS WITHOUT VERIFYING THE SPECIFIED ELEVATIONS AND NOTIFYING THE DESIGN ENGINEER.
15. ALL PROPERTY CORNER MONUMENTS SHALL BE IN PLACE AND IDENTIFIED AT THE TIME OF THE FOUNDATION INSPECTION REQUEST.
16. ANY SECTIONS OF DAMAGED OR DISPLACED CURB, GUTTER & SIDEWALK OR DRIVEWAY APPROACH SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE SCHOOL DISTRICT.
17. ALL STORM WATER EROSION CONTROL AND SEDIMENT CONTROL DEVICES / MEASURES (I.E. BMPS) SHALL BE IN PLACE THROUGHOUT GROUND DISTURBING ACTIVITIES.
18. DIGITAL DRAWINGS OF HORIZONTAL CONTROL PROVIDED TO SURVEY FOR PURPOSE OF CONSTRUCTION.
19. THE CONTRACTOR SHALL ADHERE TO ALL NOTES AND DETAILS PRESENTED ON THE EROSION CONTROL PLAN AND DETAILS SHEET.
20. THE EXISTING SITE CONDITIONS SHOWN HEREIN HAVE BEEN COMPILED BASED ON TOPOGRAPHIC FIELD SURVEYS, AS-BUILT DRAWINGS OF THE EXISTING IMPROVEMENTS, AND KNOWLEDGE OF THE SITE BY THE DISTRICT. IT IS THE RESPONSIBILITY OF THE PROJECT CONTRACTOR TO VERIFY FIELD CONDITIONS, ESPECIALLY AT CRITICAL JOIN LOCATIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER OF RECORD AND THE DISTRICT FOR THEIR REVIEW PRIOR TO CONSTRUCTION OF IMPROVEMENTS.
21. IT IS THE RESPONSIBILITY OF THE PROJECT CONTRACTOR TO CALL 1-800-642-2444 BEFORE ANY TRENCHES OF EXCAVATION WORK.
22. GENERAL CONTRACTOR TO POTHOLE ANY AREAS WHERE EXCAVATIONS ARE PLANNED. ANY UTILITIES DAMAGED, WHETHER REFLECTED ON RECORD DRAWINGS OR NOT, BY CONTRACTOR SHALL BE RESPONSIBILITY OF CONTRACTOR.
23. THE GEOTECHNICAL ENGINEERING REPORT, IN ITS ENTIRETY, SHALL BE CONSIDERED A PART OF THESE PLANS.
24. A COMPACTION REPORT SHALL BE PROVIDED BY A SOILS ENGINEER STATING THAT THE BASE AND SUBGRADE WERE PREPARED IN ACCORDANCE WITH THE PROJECT SOILS REPORT.
25. IF DE-WATERING IS REQUIRED, A LOW THREAT DISCHARGE PERMIT MAY BE REQUIRED.
26. HYRDROSEEDING SHALL BE PLACED ON ALL DISTURBED SURFACES OTHER THAN PAVED OR GRAVEL SURFACES PRIOR TO FINAL INSPECTION. SEED MIX SHALL BE SPECIFIED BY THE LANDSCAPE ARCHITECT.

REFERENCE DOCUMENTS:

CITY STANDARD SPECIFICATIONS AND ENGINEERING STANDARDS: APRIL 2016 EDITION
COUNTY ENGINEERING STANDARDS: AUGUST 2022 EDITION

GRADING NOTES

1. ALL GRADING SHALL BE IN CONFORMANCE WITH THE COUNTY OF SAN LUIS OBISPO GRADING ORDINANCES, THE STANDARDS AND REQUIREMENTS PERTAINING THERETO, THIS PLAN, AND THE RECOMMENDATIONS AND REQUIREMENTS OF THE SUPERVISING SOILS ENGINEER.
2. ALL EXPORT MATERIAL SHALL BE DISPOSED OF TO THE SATISFACTION OF THE COUNTY GRADING INSPECTOR.
3. DUST CONTROL MEASURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH COUNTY GRADING ORDINANCE AND COUNTY APCD REQUIREMENTS.
4. CONSTRUCTION CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR PROTECTION OF PUBLIC AND PRIVATE PROPERTY ADJACENT TO THE JOB SITE AND THAT HE/SHE SHALL AT HIS/HER EXPENSE, REPAIR OR REPLACE TO ORIGINAL CONDITION ALL EXISTING IMPROVEMENTS WITHIN OR ADJACENT TO THE JOB SITE WHICH ARE DESIGNATED FOR REMOVAL AND WHICH ARE DAMAGED OR REMOVED AS A RESULT OF HIS/HER OPERATIONS.
5. NO CUT OR FILL SLOPES WILL BE CONSTRUCTED STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1). UNLESS OTHERWISE APPROVED BY THE SOILS ENGINEER.
6. MINIMUM DRAINAGE GRADIENT OF 5% IS REQUIRED FOR A MINIMUM OF 10' AWAY FROM THE BUILDING PAD/FOUNDATION IN ACCORDANCE WITH THE BUILDING CODES FOR LANDSCAPED AREAS ADJACENT TO BUILDINGS. MINIMUM DRAINAGE GRADIENT OF 2% IS REQUIRED AWAY FROM BUILDING FOR IMPERVIOUS HARDSCAPE WITHIN 10' OF THE BUILDING (SEE CBC SECTION 1804A.4).
7. ALL SURFACE AND SUBSURFACE DRAINAGE SYSTEMS DESIGNED AT LESS THAN 2% SHALL HAVE FINAL GRADIENTS CERTIFIED BY A LICENSED SURVEYOR OR ENGINEER PRIOR TO FINAL INSPECTION.
8. SOILS TESTS SHALL BE DONE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AND PROJECT SOILS REPORT AND PROVISIONS.
9. COMPACTION TESTS SHALL BE MADE ON SUBGRADE MATERIAL AND MATERIAL AS SPECIFIED BY THE ENGINEER. SAID TESTS SHALL BE MADE PRIOR TO THE PLACING OF THE NEXT MATERIAL.GRADING AND COMPACTIONS REQUIREMENTS SHOULD BE AS PER THE RECOMMENDATIONS OF THE SOILS ENGINEER REPORT AND/OR COUNTY OF SAN LUIS OBISPO STANDARDS.
10. FINAL REPORTS SHALL BE REQUIRED IN ACCORDANCE WITH CHAPTER 18A OF THE CALIFORNIA BUILDING CODE (CBC).
11. DURING CONSTRUCTION/GROUND DISTURBING ACTIVITIES, THE APPLICANT SHALL IMPLEMENT THE FOLLOWING PARTICULATE (DUST) CONTROL MEASURES. THESE MEASURES SHALL BE SHOWN ON THE GRADING AND BUILDING PLANS. IN ADDITION, THE CONTRACTOR OR BUILDER SHALL DESIGNATE A PERSON OR PERSONS TO MONITOR THE DUST CONTROL PROGRAM AND TO ORDER INCREASED WATERING AS NECESSARY, TO PREVENT TRANSPORT OF DUST OFF SITE. THEIR DUTIES SHALL INCLUDE HOLIDAY AND WEEKEND PERIODS WHEN WORK MAY NOT BE IN PROGRESS. THE NAME AND TELEPHONE NUMBER OF SUCH PERSONS SHALL BE PROVIDED TO THE APCD PRIOR TO COMMENCEMENT OF CONSTRUCTION. USE OF WATER TRUCKS OR SPRINKLER SYSTEMS IN SUFFICIENT QUANTITIES TO PREVENT AIRBORNE DUST FROM LEAVING THE SITE. INCREASED WATERING FREQUENCY WOULD BE REQUIRED WHENEVER WIND SPEEDS EXCEED 15 MPH. RECLAIMED (NON POTABLE) WATER SHALL BE USED WHENEVER POSSIBLE.
11. ALL DISTURBED SURFACES SLOPED FOUR HORIZONTAL TO ONE VERTICAL (4:1) AND GREATER AND AREAS USED TO CONVEY CONCENTRATED DRAINAGE SHALL BE PREPARED AND MAINTAINED TO CONTROL EROSION BY EFFECTIVE PLANTING TO BE COMPLETED NO LATER THAN 30 DAYS PRIOR TO A REQUEST FOR FINAL INSPECTION APPROVALS.
12. ALL ACTIVITIES ASSOCIATED WITH CONSTRUCTION AND OPERATION FOR THE SCHOOL IMPROVEMENTS SHALL COMPLY AT ALL TIMES WITH ALL CURRENT APCD RULES AND REGULATIONS AS APPLICABLE, INCLUDING BUT NOT LIMITED TO PM-10, NOx EMISSIONS, BEST AVAILABLE CONTROL TECHNOLOGIES, CONSTRUCTION ACTIVITY MANAGEMENT PLANS, AND PHASING TECHNIQUES.
13. A FIRE DEPARTMENT PERMIT IS REQUIRED IF FUEL IS STORED ON-SITE.
14. TRACKING ONTO THE PUBLIC RIGHT-OF-WAY SHALL BE MINIMIZED. THE ADJOINING STREET AND SIDEWALK SHALL BE CLEANED BY SWEEPING TO REMOVE DIRT, DUST, MUD, AND CONSTRUCTION DEBRIS AT THE END OF EACH WORKING DAY.

UTILITY NOTES

1. UTILITIES SHOWN ARE ACCURATE TO THE EXTENT OF AVAILABLE RECORDS AND KNOWLEDGE. THE CONTRACTOR HAS THE RESPONSIBILITY TO VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND TO NOTIFY UTILITY COMPANIES WHEN WORKING IN THEIR PROXIMITY. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL POTHOLE TO VERIFY ALL EXISTING UTILITY POINTS OF CONNECTION AND ELEVATIONS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IF ANY DISCREPANCIES EXIST BETWEEN THE PLANS AND FIELD CONDITIONS PERTAINING TO MATERIALS, ELEVATIONS, LOCATIONS, ETC., PRIOR TO CONTINUING WORK.
2. ALL WATER VALVES THAT ARE DEEPER THAN 4' SHALL BE A EQUIPPED WITH A STEEL VALVE STEM EXTENSION THAT WILL ALLOW VALVE OPERATION WITH STANDARD LENGTH VALVE KEY. VALVE OPERATING NUTS SHALL BE BETWEEN 2' TO 4' BELOW GRADE. THE STEEL VALVE STEM EXTENSION SHALL BE STEEL ONLY BY PIPE LINE PRODUCTS OR APPROVED EQUAL.
3. THE DRY UTILITY SERVICE LINES AND BOXES SHOWN IN THESE PLANS ARE SCHEMATIC AND BASED ON RECORD SOURCES AND PROVIDED PLANS FROM THE UTILITY PROVIDER. THE CONTRACTOR IS REQUIRED TO OBTAIN THE FINAL PLANS FROM THE UTILITY PROVIDER AND VERIFY THE FINAL ALIGNMENT PER THEIR APPROVED PLANS PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ROUTING THE SERVICE WIRE THROUGH THE CONDUIT RUNS TO PROVIDE SERVICE TO THE SHOWN EQUIPMENT.
4. ALL MATERIAL SUBJECT TO CORROSION INCLUDING COPPER TRACING WIRE, DUCTILE IRON PIPES, COPPER TUBING, FITTINGS, ETC. SHALL BE PROTECTED IN CONFORMANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AND SOIL REPORT'S RECOMMENDATIONS AS SPECIFIED IN APPENDIX C- "SOIL CORROSIVITY STUDY BY HDR ENGINEERING, INC." OF THE SOILS REPORT.
5. VERIFY ALL P.O.C. FOR ALL UTILITIES I.E. POTHOLE EACH SIDE, FIELD VERIFY DEPTHS THROUGHOUT THROUGHPUT 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.
6. CONTRACTOR TO PROVIDE A MINIMUM OF 12" OF CLEARANCE AT CROSSINGS BETWEEN WET UTILITIES AND ELECTRICAL CONDUITS.

DEMOLITION NOTES

1. THIS EXISTING CONDITIONS AND SITE PREPARATION PLAN (DEMOLITION PLAN) WAS PREPARED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ARCHITECT AND THE ENGINEER DO 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 DETERMINE WHAT MAY BE REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.
2. DEMOLITION WORK AND ABANDONMENT SHALL CONFORM TO THE LATEST VERSION OF THE UNIFORM BUILDING CODE, TITLE 24, AND ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER OF RECORD.
3. NO DEMOLITION SHALL BE STARTED WITHOUT APPROVED PLANS. THE DISTRICT SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO STARTING DEMOLITION.
4. THE PLANS DO NOT AUTHORIZE SITE DISTURBANCE BEYOND THE LIMITS AS REPRESENTED ON THESE PLANS UNLESS OTHERWISE NOTED.
5. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ALL ITEMS DAMAGED DURING DEMOLITION AND CONSTRUCTION TO ITS ORIGINAL CONDITION OR TO THE SATISFACTION OF THE DISTRICT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER STORAGE OF ANY ITEMS TO BE RELOCATED.
7. ALL ITEMS ARE THE PROPERTY OF THE DISTRICT. THE CONTRACTOR SHALL SALVAGE ANY ITEMS AT THE REQUEST OF THE DISTRICT.
8. ALL DEBRIS FROM THE DEMOLITION PROCESS SHALL BE REMOVED FROM THE SITE TO AN APPROVED DUMP AT THE CONTRACTOR'S EXPENSE UNLESS OTHERWISE NOTED.
9. ALL HAZARDOUS MATERIALS SHALL BE REMOVED PRIOR TO ANY DEMOLITION OR ACTIVITY WHICH WOULD DISTURB THAT MATERIAL BY A LICENSED ABATEMENT CONTRACTOR.
10. ALL STREETS, ALLEYS, VEHICULAR WAYS, SIDEWALKS, AND HAUL ROUTES SHALL BE KEPT CLEAN AND CLEAR OF DEBRIS, DIRT AND DUST IN A MANNER ACCEPTABLE TO THE COUNTY. AT A MINIMUM, THESE AREAS SHALL BE CLEANED AT THE END OF EACH WORK DAY. FAILURE TO DO SO WILL RESULT IN A "STOP WORK" NOTICE. SAID NOTICE WILL NOT BE RELEASED UNTIL THE AREA HAS BEEN ADEQUATELY CLEANED. THE FLUSHING OF DIRT OR DEBRIS INTO STORM DRAIN OR SANITARY SEWER FACILITIES SHALL NOT BE PERMITTED.
11. ALL ABANDONED UTILITIES SHALL BE MARKED IN THE FIELD AND LOCATED ON THE DRAWINGS OF RECORD BY THE CONTRACTOR WHICH WILL BE SUPPLIED TO BOTH THE ENGINEER OF RECORD AND THE DISTRICT AT THE CONCLUSION OF THE DEMOLITION WORK.
12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. EXISTING UTILITIES AND IMPROVEMENTS SHOWN ON THESE PLANS ARE FROM RECORD SOURCES AND SPOT CHECKS. UTILITIES ARE SHOWN FOR DESIGN PURPOSES ONLY.
13. CONTRACTOR TO VERIFY ALL UTILITY POINT OF CONNECTIONS FOR ALL UTILITIES I.E. POTHOLE EACH SIDE, FIELD VERIFY DEPTHS THROUGHOUT FOR ALL EXISTING UTILITIES.
14. 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.
15. THE CONTRACTOR SHALL ONLY REMOVE THOSE UNDERGROUND FACILITIES SPECIFICALLY NOTED FOR REMOVAL. DAMAGE TO EXISTING FACILITIES TO REMAIN SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
16. THE CONTRACTOR MUST NOTIFY ALL UTILITY COMPANIES PRIOR TO THE START OF CONSTRUCTION.
17. CONTRACTOR TO TELEPHONE UNDERGROUND SERVICE ALERT (USA) TOLL FREE AT 1-800-642-2444 A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. FOR BEST RESPONSE, PROVIDE AS MUCH NOTICE AS POSSIBLE, UP TO 10 WORKING DAYS.
18. CONTRACTOR SHALL NOT INTERRUPT ANY DISTRICT SERVICES AND SCHOOL ACTIVITIES DURING OPERATING HOURS OR DISRUPT THE OPERATION OF ADJACENT BUSINESSES, RESIDENTIAL AREAS OR ONSITE FACILITIES OUTSIDE THE LIMITS OF DEMOLITION.
19. CONTRACTOR TO REMOVE AND DISPOSE OF ALL WOOD, CONCRETE, A.C. PAVING, AGGREGATE BASE, AND VEGETATION AS SHOWN UNLESS OTHERWISE NOTED ON THE PLANS.
20. DUST CONTROL SHALL BE MAINTAINED TO THE SATISFACTION OF THE INSPECTOR OF RECORD AND COUNTY APCD.
21. PROTECT EXISTING FACILITIES OUTSIDE THE LIMITS OF DEMOLITION UNLESS OTHERWISE NOTED.
22. IF INDICATED ON PLANS, REMOVE TREES, TOGETHER WITH THE BULK OF THE ROOTS, TO A MINIMUM DEPTH OF 4 FEET BELOW EXISTING GRADE AND WITHIN A RADIUS OF 7 FEET BEYOND THE PERIMETER OF THE TRUNK AT GROUND LINE.
23. FILL AND COMPACT HOLES RESULTING FROM TREES AND TREE STUMP REMOVAL TO REQUIRED DENSITY. FILLING SHALL NOT BE DONE UNTIL HOLES HAVE BEEN APPROVED BY THE DISTRICT'S REPRESENTATIVE.
24. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AND MAINTAINED TO THE SATISFACTION OF THE INSPECTOR OF RECORD AND/OR PUBLIC WORK'S DIRECTOR DURING ALL DEMOLITIONS, CONSTRUCTION AND GROUND DISTURBING ACTIVITIES.

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RENEWAL DATE
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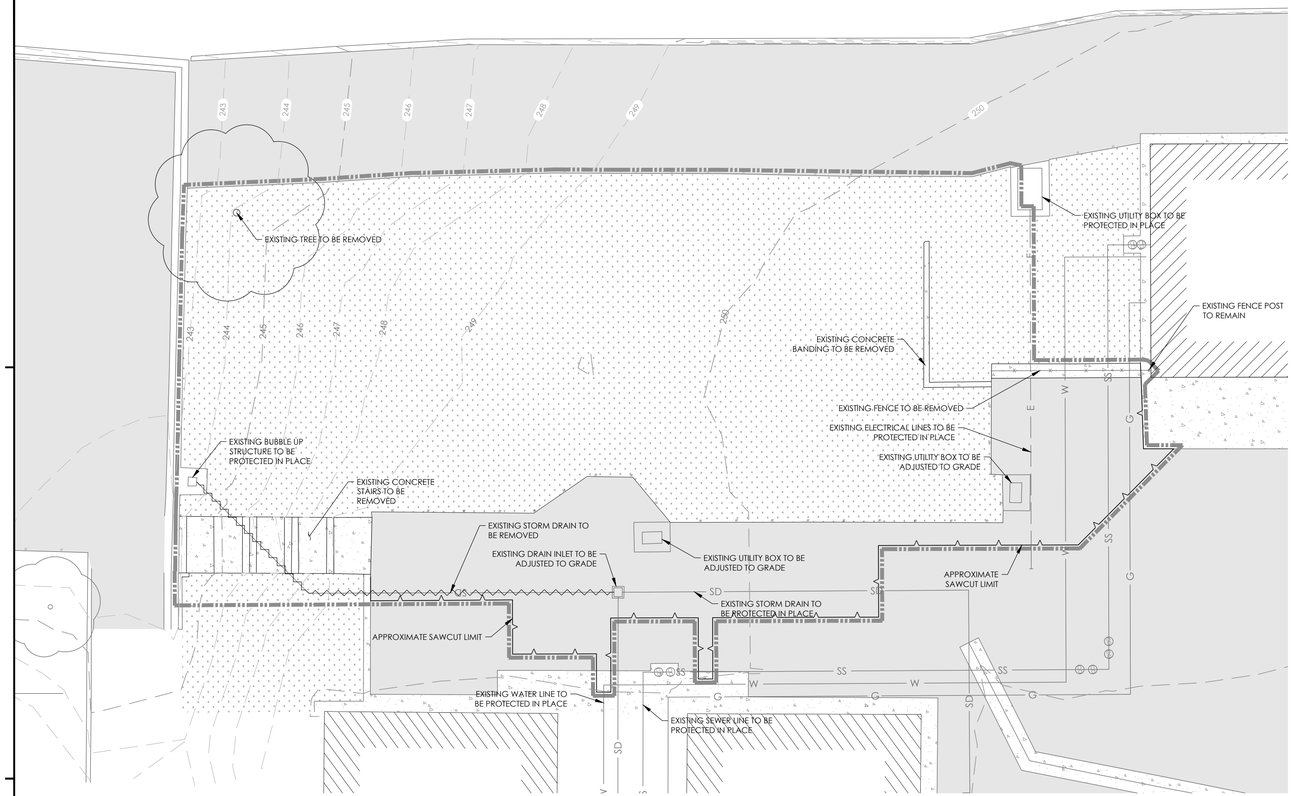
GENERAL NOTES

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PROJECT MANAGER: RAG
DRAWN BY: KC
CHECKED BY: RAC
DATE: APRIL 23, 2026
PROJECT NUMBER: 0822-03-ED25
SHEET: C-1.1

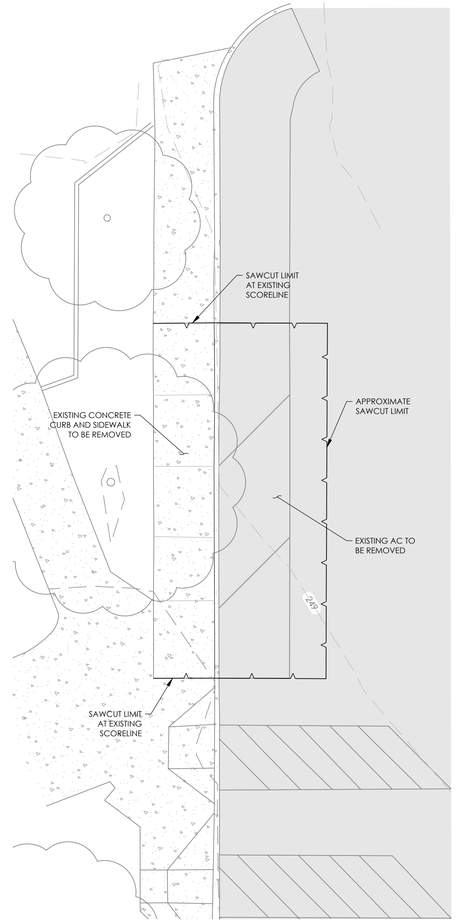
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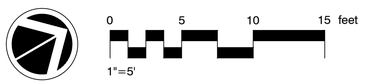
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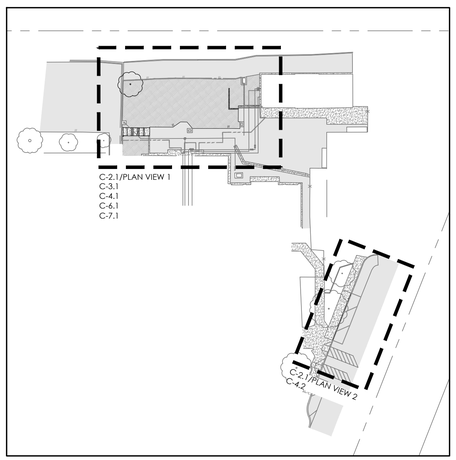
SCALE: 1"=5'



PLAN VIEW 2

SCALE: 1"=5'





KEYMAP
-NTS-

LEGEND

- SAWCUT LIMIT
- APPROXIMATE LIMIT OF WORK
- EXISTING AC PAVING
- EXISTING CONCRETE
- EXISTING LANDSCAPE
- EXISTING BUILDING

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EXISTING CONDITION AND SITE PREPARATION

NO.	REVISION	DATE

PROJECT MANAGER
RAG

DRAWN BY
KC

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RAC

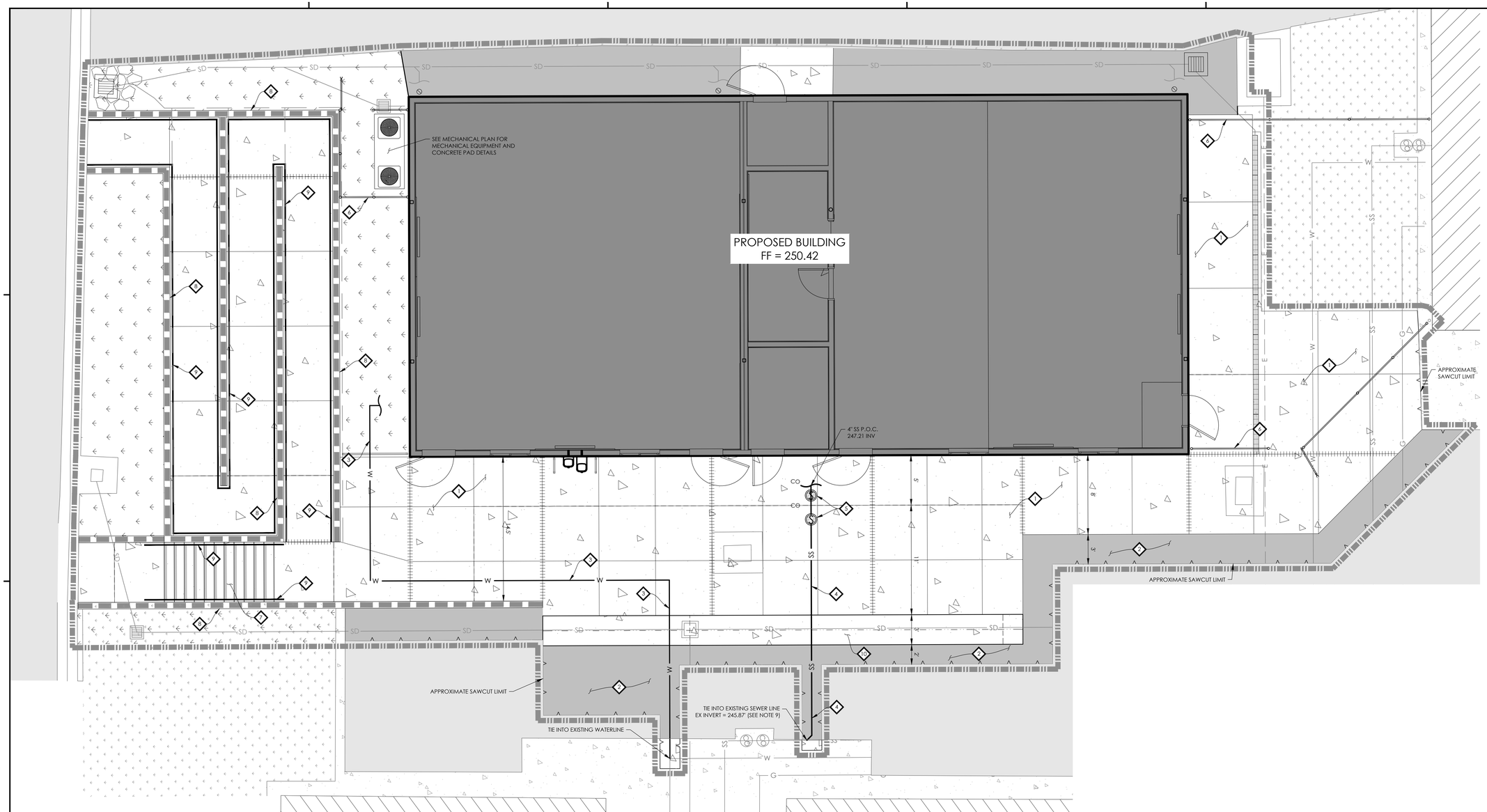
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APRIL 23, 2026

PROJECT NUMBER
0822-03-ED25

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LEGEND

- SAWCUT LIMIT
- APPROXIMATE LIMIT OF WORK
- CONCRETE RETAINING WALL
- PROPOSED AC PAVING
- PROPOSED CONCRETE
- PROPOSED LANDSCAPE
- EXISTING BUILDING
- EXISTING AC PAVING

GENERAL NOTES

1. ALL UTILITY SERVICE LATERALS TO BE STUBBED 5' FROM BUILDING. SEE PLUMBING PLANS FOR CONTINUATION AND SEWER CLEANOUT LOCATIONS.
2. CABLE, ELECTRIC, PHONE, GAS, AND DRY UTILITIES ARE SHOWN SCHEMATICALLY ON THESE PLANS, SUBJECT TO CHANGE BASED UPON FINAL PLAN ISSUANCE FROM THE INDIVIDUAL UTILITY COMPANY.
3. SEE GRADING AND DRAINAGE SHEETS FOR GRADING CONTOURS AND STORM DRAIN ADDITIONAL INSTALLATION NOTES AND DETAILS.
4. CONTRACTOR SHALL PROVIDE ALL FITTINGS AND APPURTENANCES REQUIRED TO INSTALL AND CONSTRUCT ANY/ALL UTILITIES AS SHOWN ON THESE IMPROVEMENT PLANS.
5. SEE LANDSCAPE PLANS FOR LOCATION OF EXPANSION JOINTS AND SCORE LINES. ALSO SEE SOILS REPORTS RECOMMENDATIONS.
6. THE PROJECT SOILS REPORT, IN ITS ENTIRETY, SHALL BE CONSIDERED A PART OF THESE PLANS.
7. CONTRACTOR TO REFER TO ELECTRICAL PLANS FOR ALL POWER ROUTING, FEEDERS, UNDERGROUND CONDUITS, LIGHT FIXTURE DETAILS, ETC.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING P.G.&E., CHARTER COMMUNICATIONS, A.T.&T., AND THE GAS COMPANY FOR OBTAINING THE RESPECTIVE UTILITY INSTALLATION PLANS PRIOR TO CONSTRUCTION. THE ENGINEER OF RECORD MUST BE NOTIFIED OF ANY DEVIATION FROM THESE APPROVED IMPROVEMENT PLANS, PRIOR TO INSTALLATION AND/OR CONSTRUCTION OF SUCH CHANGES. THESE PROPOSED CHANGES SHALL BE REFLECTED IN THE FINAL "RECORD" DRAWINGS.
9. CONTRACTOR TO FIELD VERIFY LOCATION, SIZE, MATERIAL, AND INVERT OF EXISTING DOMESTIC WATER P.O.C. AND EXISTING SANITARY SEWER P.O.C. PRIOR TO CONSTRUCTION.
10. THE SITE CONTAINS CORROSIVE PROPERTIES PER THE SOILS REPORT. ON ALL PIPES, APPURTENANCES, AND FITTINGS NOT PROTECTED BY CATHODIC PROTECTION, COAT BARE METAL SUCH AS VALVES, BOLTS, FLANGE JOINTS, JOINT HARNESSES, AND FLEXIBLE COUPLINGS WITH WAX TAPE PER AWWA C217 AFTER ASSEMBLY. FOLLOW GEOTECH REPORT FOR CORROSION CONTROL RECOMMENDATIONS FOR SPECIFIC PIPE TYPES.

CONSTRUCTION NOTES

1. CONSTRUCT CONCRETE PEDESTRIAN PAVING PER ARCHITECTURE PLAN AND DETAIL.
2. CONSTRUCT MIN. 3" AC PAVING WITH MIN. 6" OF COMPACTED (95% OR BETTER) CLASS II AGGREGATE BASE (NO RECYCLED BASE) OR MATCH AC SECTION IN KIND, WHICHEVER IS GREATER.
3. INSTALL 2" SCH. 80 PVC DOMESTIC WATER LINE. SEE UTILITY TRENCH DETAIL A ON SHEET C-5.1.
4. INSTALL 4" SDR 35 PVC SEWER LINE, SLOPE = 0.02 FT/FT MIN. SEE UTILITY TRENCH DETAIL A ON SHEET C-5.1.
5. INSTALL TWO-WAY SEWER CLEANOUT PER DETAIL B ON SHEET C-5.1.
6. INSTALL FENCE PER ARCHITECTURE PLAN.
7. CONSTRUCT STAIRS PER ARCHITECTURE PLAN.
8. CONSTRUCT WALL PER STRUCTURAL DETAIL.
9. INSTALL HANDRAIL PER ARCHITECTURE DETAIL.
10. CONSTRUCT 3' WIDE VALLEY GUTTER PER DETAIL C ON SHEET C-5.1.

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1"=5'

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MESA MIDDLE SCHOOL SCIENCE AND SPED CLASSROOMS

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CONSTRUCTION AND UTILITY PLAN

NO.	REVISION	DATE

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KC

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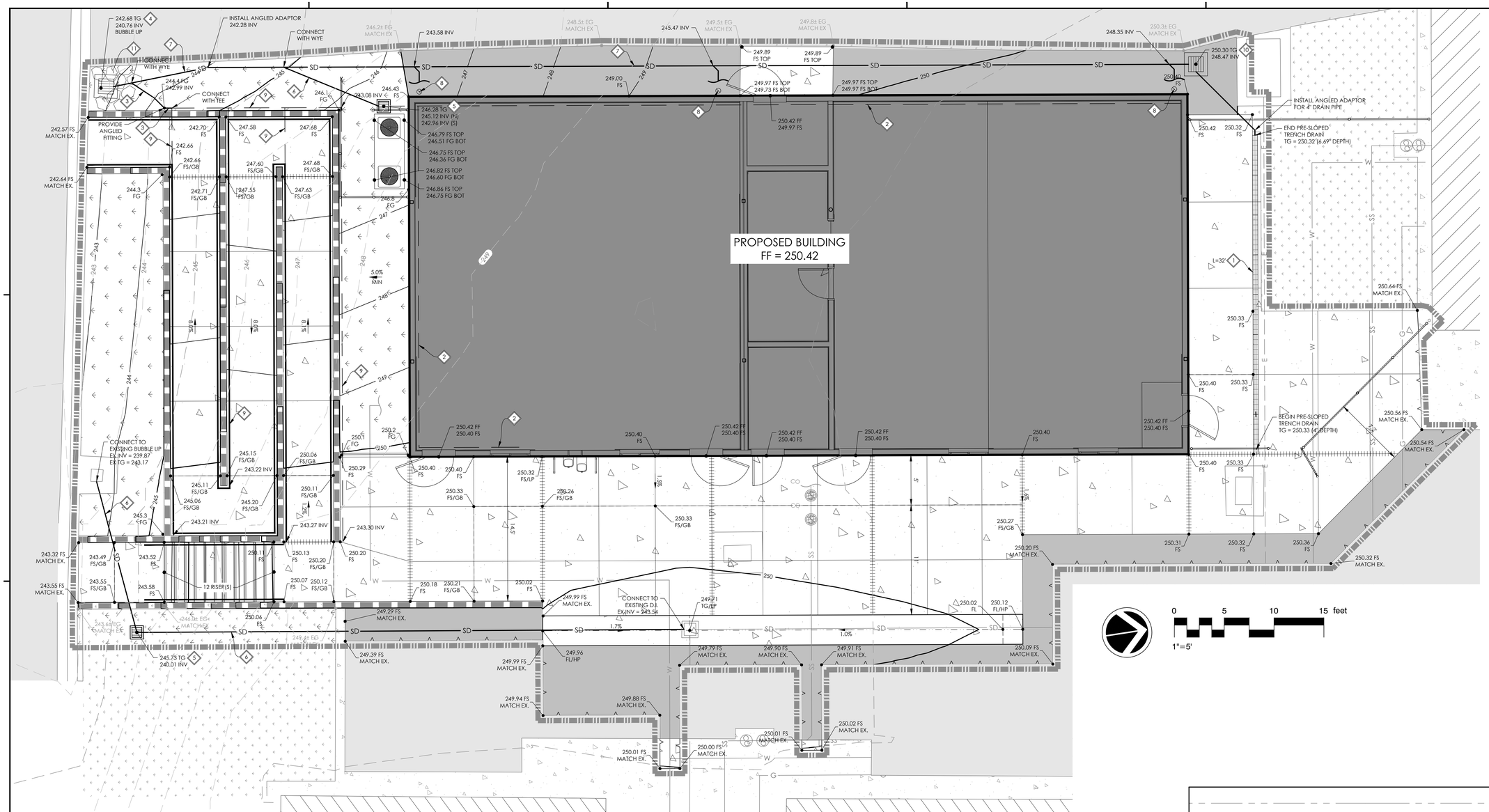
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PROJECT NUMBER
0822-03-ED25

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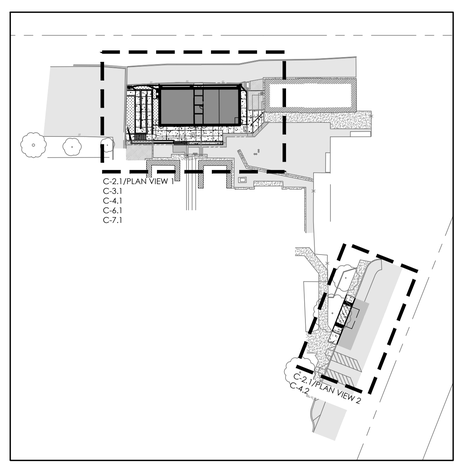


LEGEND

- SAWCUT LIMIT
- APPROXIMATE LIMIT OF WORK
- CONCRETE RETAINING WALL
- PROPOSED AC PAVING
- PROPOSED CONCRETE
- PROPOSED LANDSCAPE
- EXISTING BUILDING
- EXISTING AC PAVING

IMPROVEMENT NOTES

1. INSTALL NDS DURA SLOPE TRENCH DRAIN (OR APPROVED EQUAL) WITH ADA COMPLIANT/HEEL PROOF CAST IRON GRATE, 4' SECTIONS WITH 0.7% BUILT IN SLOPE (MIN. DEPTH = 4", MAX DEPTH = 12").
2. INSTALL 6" DUAL WALL CORRUGATED HDPE WALL DRAIN PIPE WITH 3 SLOT PATTERN PERFORATIONS AT 120° EVERY OTHER VALLEY. INSTALL WITH SLOT PERFORATIONS CONSISTENTLY FACING DOWNWARD IN CONFORMANCE WITH THE SOILS REPORT. FABRIC-MIRAFI N-SERIES NON-WOVEN PRODUCT OR APPROVED EQUAL TO BE INSTALLED AROUND PERFORATED PIPE.
3. INSTALL 4" HDPE STORM DRAIN PIPE (MIN. SLOPE = 0.01 FT/FT).
4. INSTALL 18" X 18" CONCRETE MIDSTATE SQUARE CATCH BASIN (OR APPROVED EQUAL) PER MANUFACTURER'S DETAIL; PROVIDE ADA COMPLIANT AND TRAFFIC RATED GRATE WITH FRAME. PROVIDE 3" WEEP HOLES 9" O.C. EACH WAY AT BOTTOM OF CATCH BASIN AND INSTALL 18" MIN. HEIGHT OF 1" DIAMETER GRAVEL UNDER CATCH BASIN INLET. SEE OUTLET BUBBLE-UP DETAIL D ON SHEET C-5.1.
5. INSTALL 12" X 12" CONCRETE MIDSTATE SQUARE CATCH BASIN (OR APPROVED EQUAL) PER MANUFACTURER'S DETAIL; PROVIDE TRAFFIC RATED AND ADA COMPLIANT GRATE WITH FRAME.
6. INSTALL 6" HDPE STORM DRAIN PIPE (MIN. SLOPE = 0.01 FT/FT).
7. INSTALL 8" HDPE STORM DRAIN PIPE (MIN. SLOPE = 0.005 FT/FT).
8. INSTALL ROOF DRAIN CONNECTION PER ARCHITECTURAL PLAN AND DETAILS.
9. INSTALL 4" ADS DUAL WALL CORRUGATED AND PERFORATED HDPE PIPE (OR APPROVED EQUAL) WITH SLOT PERFORATIONS CONSISTENTLY FACING DOWNWARD AND IN CONFORMANCE WITH THE RETAINING WALLS SUBSECTION IN SECTION 11.0 GEOTECHINCAL RECOMMENDATIONS OF THE SOILS REPORT. FABRIC-MIRAFI N-SERIES NON-WOVEN PRODUCT OR APPROVED EQUAL TO BE INSTALLED AROUND PERORATED PIPE.
10. INSTALL 18" X 18" CONCRETE MIDSTATE SQUARE CATCH BASIN (OR APPROVED EQUAL) PER MANUFACTURER'S DETAIL; PROVIDE ADA COMPLIANT AND TRAFFIC RATED GRATE WITH FRAME.
11. INSTALL 3'-6" BALLAST RIP-RAP SURROUNDING OUTLET BUBBLE-UP.



KEYMAP
-NTS-

DSA FILE #: x
DSA APP #: x
DSA TRACKING #: x

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CONSULTANT

LICENSED ARCHITECT
KATHRYN ANNE HICKS
C38079
2-28-27
RENEWAL DATE
STATE OF CALIFORNIA

MESA MIDDLE SCHOOL SCIENCE AND SPED CLASSROOMS

2555 S HALCYON RD, ARROYO GRANDE, CA

GRADING AND DRAINAGE PLAN

NO.	REVISION	DATE

PROJECT MANAGER
RAG

DRAWN BY
KC

CHECKED BY
RAC

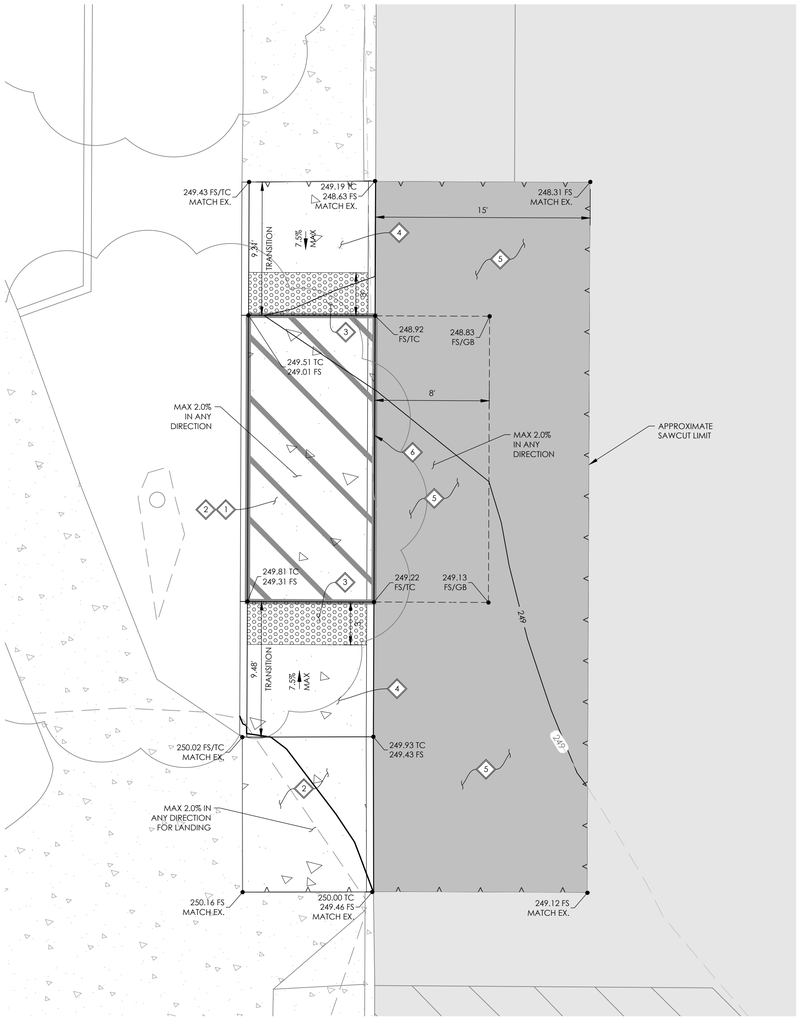
DATE
APRIL 23, 2026

PROJECT NUMBER
0822-03-ED25

SHEET
C-4.1

DSA BACK CHECK 2

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DROP-OFF GRADING AND CONSTRUCTION DETAIL

0 5 10 15 feet

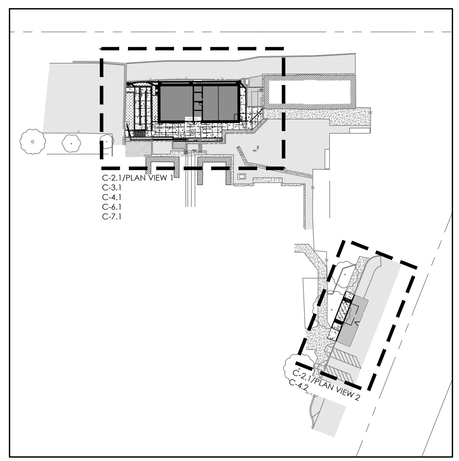
1"=5'

LEGEND

- SAWCUT LIMIT
- APPROXIMATE LIMIT OF WORK
- CONCRETE RETAINING WALL
- PROPOSED AC PAVING
- PROPOSED CONCRETE
- PROPOSED LANDSCAPE
- EXISTING BUILDING
- EXISTING AC PAVING

IMPROVEMENT NOTES

1. INSTALL 4" WIDE BLUE DIAGONAL STRIPING AT 36" MAX O.C. WITH 4" WIDE BLUE BORDERLINE FOR DROP-OFF ZONE.
2. CONSTRUCT CONCRETE PEDESTRIAN PAVING PER ARCHITECTURE PLAN AND DETAIL.
3. INSTALL DETECTABLE WARNING SURFACE.
4. CONSTRUCT CURB RAMP "CASE F" PER CALTRANS STANDARD PLAN A88A; FINISHED ELEVATIONS PER GRADING AND DRAINAGE PLAN.
5. CONSTRUCT AC PAVING PER ARCHITECTURE PLAN AND DETAIL.
6. CONSTRUCT MODIFIED 0" CURB PER CITY CITY OF ARROYO GRANDE STANDARD 4020.



KEYMAP
-NTS-

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DSA APP #: x
DSA TRACKING #: x

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C38079
2-28-27
RENEWAL DATE
STATE OF CALIFORNIA

DSA BACK CHECK 2

MESA MIDDLE SCHOOL SCIENCE AND SPED CLASSROOMS
2555 S HALCYON RD, ARROYO GRANDE, CA

GRADING AND DRAINAGE PLAN

NO.	REVISION	DATE

PROJECT MANAGER
RAG

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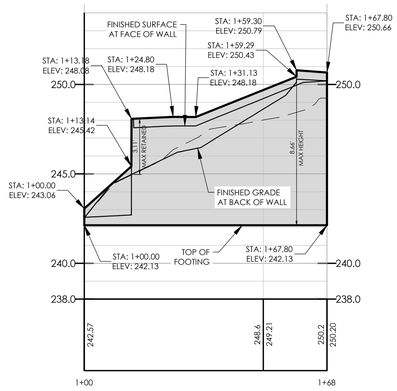
CHECKED BY
RAC

DATE
APRIL 23, 2026

PROJECT NUMBER
0822-03-ED25

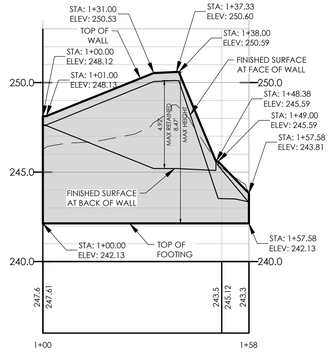
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C-4.2

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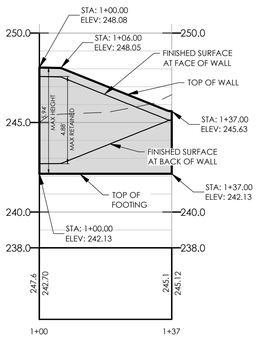
CONCRETE WALL 'A'

1" = 20' HORIZONTAL SCALE
1' = 4' VERTICAL SCALE



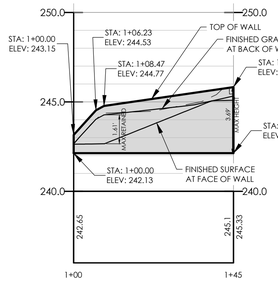
CONCRETE WALL 'B'

1" = 20' HORIZONTAL SCALE
1' = 4' VERTICAL SCALE



CONCRETE WALL 'C'

1" = 20' HORIZONTAL SCALE
1' = 4' VERTICAL SCALE

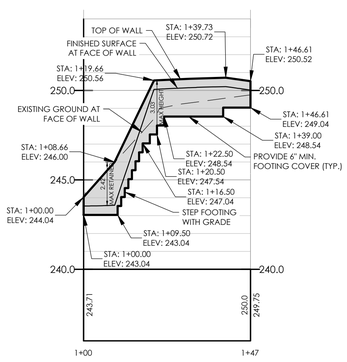


CONCRETE WALL 'D'

1" = 20' HORIZONTAL SCALE
1' = 4' VERTICAL SCALE



KEYMAP



CONCRETE WALL 'E'

1" = 20' HORIZONTAL SCALE
1' = 4' VERTICAL SCALE

0 10 20 30 feet
1"=10'

DSA FILE #: x
DSA APP #: x
DSA TRACKING #: x

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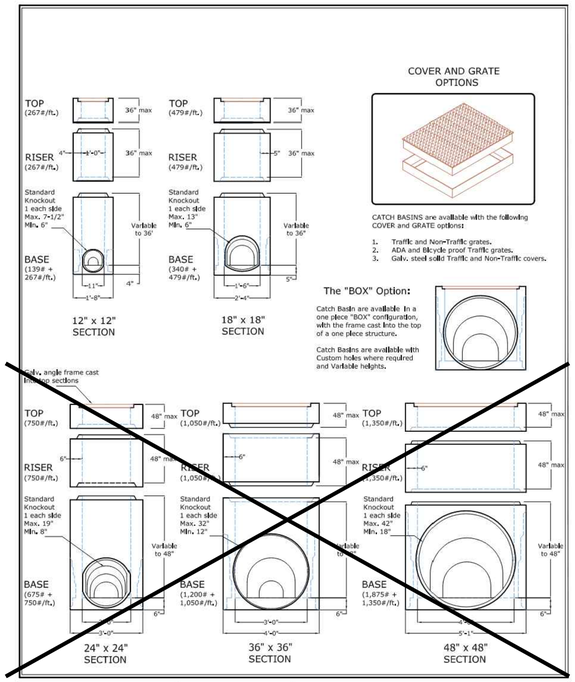
RETAINING WALL PROFILES

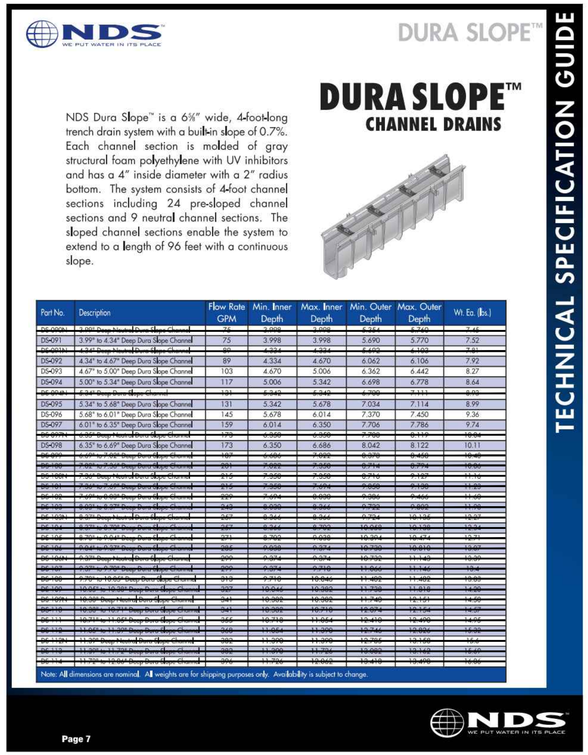
NO.	REVISION	DATE

PROJECT MANAGER
RAG
DRAWN BY
KC
CHECKED BY
RAC
DATE
APRIL 23, 2026
PROJECT NUMBER
0822-03-ED25
SHEET
C-4.3

DSA BACK CHECK 2

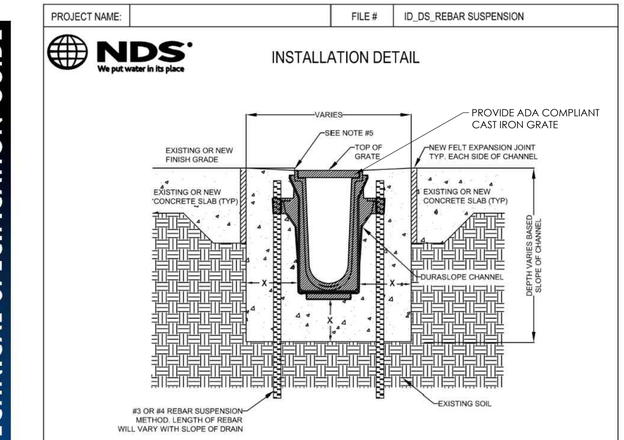
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Part No.	Description	Flow Rate GPM	Min. Inner Depth	Max. Inner Depth	Min. Outer Depth	Max. Outer Depth	Wt. Ea. (lbs.)
DS-090N	3.09" Deep Neutral Dura-Slope Channel	78	3.098	3.098	5.784	5.790	7.48
DS-091	3.99" to 4.34" Deep Dura Slope Channel	75	3.998	3.998	5.690	5.770	7.52
DS-091N	4.34" Deep Neutral Dura-Slope Channel	89	4.334	4.334	6.692	6.762	7.81
DS-092	4.34" to 4.67" Deep Dura Slope Channel	89	4.334	4.670	6.062	6.106	7.92
DS-093	4.67" to 5.00" Deep Dura Slope Channel	103	4.670	5.006	6.362	6.442	8.27
DS-094	5.00" to 5.34" Deep Dura Slope Channel	117	5.006	5.342	6.698	6.778	8.64
DS-094N	5.34" Deep Neutral Dura-Slope Channel	131	5.342	5.342	6.790	7.111	8.92
DS-095	5.34" to 5.68" Deep Dura Slope Channel	131	5.342	5.678	7.034	7.114	8.99
DS-096	5.68" to 6.01" Deep Dura Slope Channel	145	5.678	6.014	7.370	7.450	9.36
DS-097	6.01" to 6.35" Deep Dura Slope Channel	159	6.014	6.350	7.706	7.786	9.74
DS-097N	6.35" Deep Neutral Dura-Slope Channel	175	6.350	6.350	7.790	8.110	10.01
DS-098	6.35" to 6.69" Deep Dura Slope Channel	173	6.350	6.686	8.042	8.122	10.11
DS-099	6.69" to 7.02" Deep Dura Slope Channel	187	6.686	7.022	8.378	8.458	10.48
DS-100	7.02" to 7.36" Deep Dura Slope Channel	201	7.022	7.358	8.714	8.794	10.85
DS-100N	7.36" Deep Neutral Dura-Slope Channel	215	7.358	7.358	8.790	9.110	11.16
DS-101	7.36" to 7.69" Deep Dura Slope Channel	215	7.358	7.694	9.050	9.130	11.20
DS-102	7.69" to 8.03" Deep Dura Slope Channel	229	7.694	8.030	9.386	9.466	11.58
DS-103	8.03" to 8.37" Deep Dura Slope Channel	243	8.030	8.366	9.722	9.802	11.96
DS-103N	8.37" Deep Neutral Dura-Slope Channel	257	8.366	8.366	9.794	10.115	12.27
DS-104	8.37" to 8.70" Deep Dura Slope Channel	257	8.366	8.702	10.046	10.126	12.32
DS-105	8.70" to 9.04" Deep Dura Slope Channel	271	8.702	9.038	10.382	10.462	12.71
DS-106	9.04" to 9.37" Deep Dura Slope Channel	285	9.038	9.374	10.718	10.798	13.09
DS-106N	9.37" Deep Neutral Dura-Slope Channel	299	9.374	9.374	10.790	11.119	13.39
DS-107	9.37" to 9.71" Deep Dura Slope Channel	299	9.374	9.710	11.054	11.134	13.47
DS-108	9.71" to 10.04" Deep Dura Slope Channel	313	9.710	10.046	11.390	11.470	13.85
DS-109	10.04" to 10.38" Deep Dura Slope Channel	327	10.046	10.382	11.726	11.806	14.23
DS-109N	10.38" Deep Neutral Dura-Slope Channel	341	10.382	10.382	11.790	12.127	14.55
DS-110	10.38" to 10.71" Deep Dura Slope Channel	341	10.382	10.718	12.062	12.142	14.60
DS-111	10.71" to 11.05" Deep Dura Slope Channel	355	10.718	11.054	12.398	12.478	14.98
DS-112	11.05" to 11.39" Deep Dura Slope Channel	369	11.054	11.390	12.734	12.814	15.36
DS-113	11.39" to 11.72" Deep Dura Slope Channel	383	11.390	11.726	13.070	13.150	15.74
DS-114	11.72" to 12.06" Deep Dura Slope Channel	397	11.726	12.062	13.406	13.486	16.12

Note: All dimensions are nominal. All weights are for shipping purposes only. Availability is subject to change.



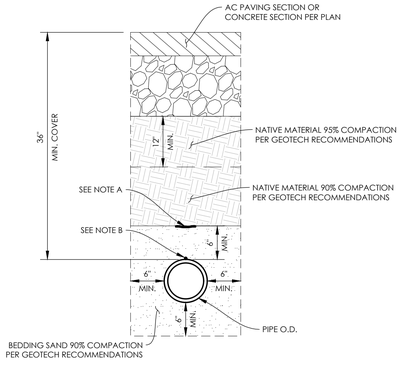
LOAD CLASS			
CLASS A PEDESTRIAN 15 kN/3375 LBS	CLASS B LIGHT DUTY 125 kN/28,000 LBS	CLASS C MEDIUM DUTY 250 kN/56,000 LBS	CLASS D HEAVY DUTY 400 kN/89,900 LBS
X = 4"	X = 4"	X = 6"	X = 8"

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. EXPANSION AND CONTRACTION CONTROL JOINTS ARE RECOMMENDED TO PROTECT THE CHANNEL AND SURROUNDING CONCRETE. CONSULT WITH AN ENGINEER NECESSARY.
3. MINIMUM CONCRETE COMPRESSIVE STRENGTH OF 4000 PSI AND VIBRATION TO ELIMINATE AIR POCKETS IS RECOMMENDED.
4. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS AND CONTRACTORS FOR PLANNING PURPOSES.
5. RECESS CHANNEL AND GRATE 1/8" FOR PEDESTRIAN TRAFFIC,1/4" FOR VEHICULAR TRAFFIC.
6. DRAWING IS NOT TO SCALE.

DURA SLOPE TRENCH DRAIN SYSTEM-GRATE TOP
REBAR SUSPENSION METHOD

FOR PRODUCT ASSISTANCE, CONTACT NDS TECHNICAL SERVICE AT techservice@ndspro.com, DESIGN ASSISTANCE- designworx@ndspro.com
851 N. HARVARD AVE. LINDSAY, CA 93247 WWW.NDSPRO.COM 1-800-726-1994

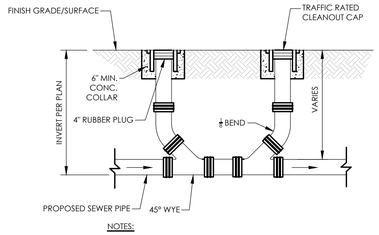
SAVE DATE: 5/18/2021 4:48 PM
TEMPLATE: QMS-TMP-8.3-05 REV 1.0 - 3/24/2020



NOTES:
A. 3-INCHES WIDE POLYETHYLENE NON-DETECTABLE TRACER TAPE

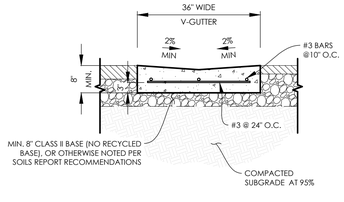
B. NUMBER 12 INSULATED THW COPPER WIRE SHALL BE PLACED CONTINUOUSLY OVER PIPE AND SHALL BE BROUGHT TO THE SURFACE IN VALVE WELLS, METER BOXES, AND SIMILAR STRUCTURES

A UTILITY TRENCH DETAIL
SCALE: NTS

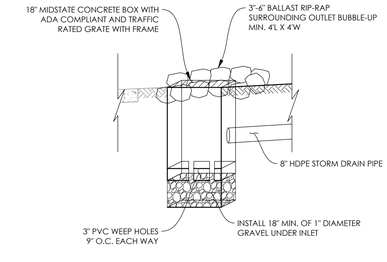


NOTES:
1. CHIMNEY SIZE AND CONNECTIONS SHALL BE 4".
2. PIPE AND FITTINGS SHALL BE PVC
3. BEDDING AND BACKFILL SHALL BE THE SAME AS FOR MAIN SEWER.

B TWO-WAY SEWER CLEANOUT
SCALE: NTS



C V-GUTTER DETAIL
SCALE: NTS



D OUTLET BUBBLE UP
SCALE: NTS

DSA FILE #: x
DSA APP #: x
DSA TRACKING #: x

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REGISTERED PROFESSIONAL ENGINEER ROBERT A. CAMACHO No. 76597 CIVIL STATE OF CALIFORNIA

CONSULTANT

LICENSED ARCHITECT KATHRYN ANNE NICE C38079 2-28-27 RENEWAL DATE STATE OF CALIFORNIA

DSA BACK CHECK 2

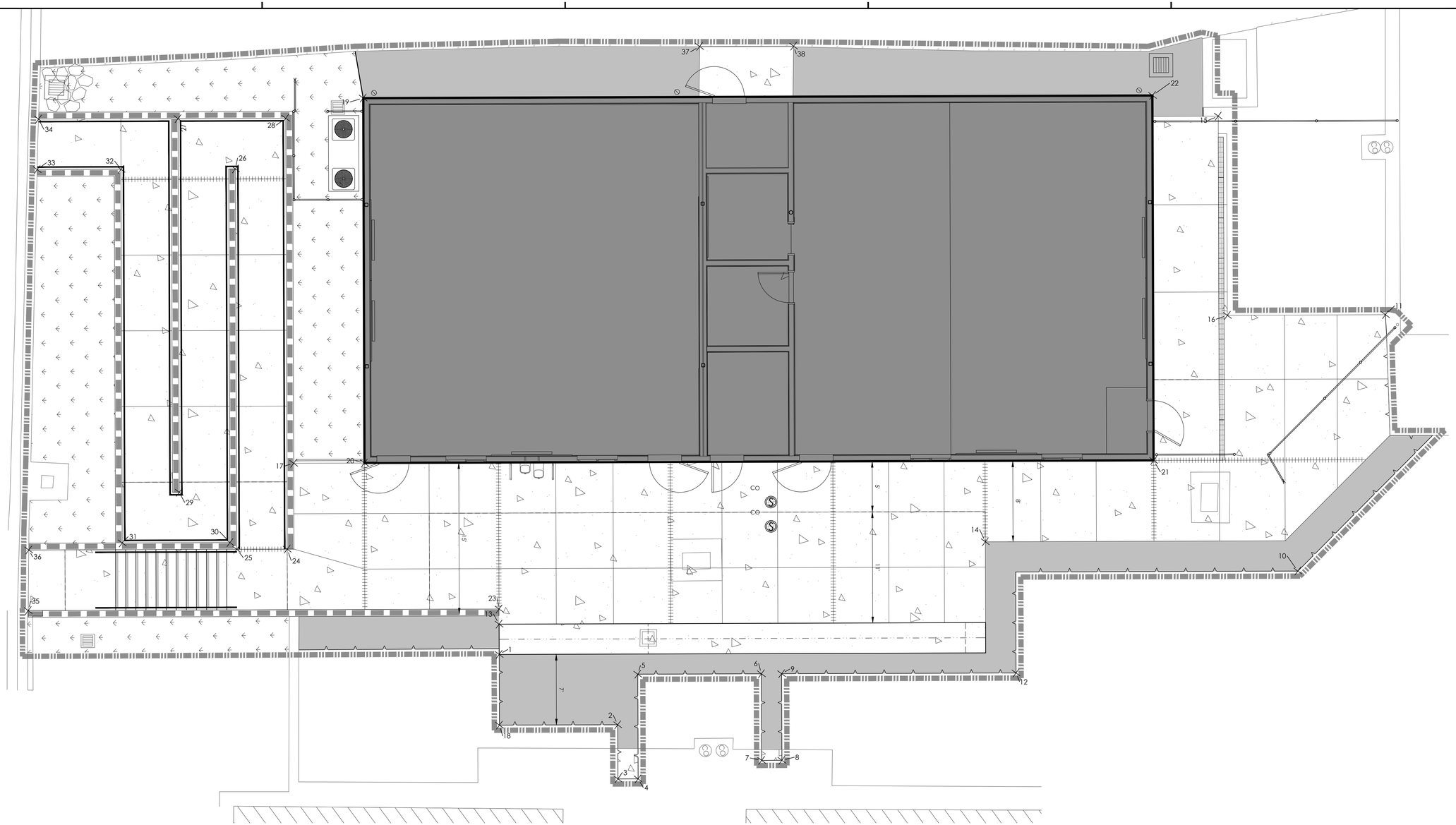
MESA MIDDLE SCHOOL SCIENCE AND SPED CLASSROOMS
2555 S HALCYON RD, ARROYO GRANDE, CA

DETAILS

NO.	REVISION	DATE

PROJECT MANAGER RAG
DRAWN BY KC | CHECKED BY RAC
DATE APRIL 23, 2026
PROJECT NUMBER 0822-03-ED25
SHEET C-5.1

N:\0801\0822-03-ED25-Mesa-MS-New-Science-SPED-Class-Bldg\Engineering\ConDocs\Sheet-Files\C-5.x_Details.dwg, C-5.1, Apr 21, 2026 9:10am, RAGomez



ABBREVIATIONS

CNTL	CONTROL POINT
CONC	CONCRETE
EDGE CONC	EDGE OF CONCRETE
BLDG CRN	BUILDING CORNER
FC	FACE OF CURB
FL	FLOWLINE
FW	FACE OF WALL
EP	EDGE OF PAVEMENT

Point Table			
Point #	Raw Description	Northing	Easting
1	EDGE CONC	2223840.9140	5789195.4596
2	EP	2223851.4568	5789204.1253
3	CONC	2223850.6587	5789209.4277
4	CONC	2223852.6364	5789209.7254
5	EP	2223854.1787	5789199.4787
6	EP	2223866.2833	5789201.3007
7	CONC	2223865.0070	5789209.7801
8	CONC	2223866.9856	5789210.0722
9	EP	2223868.2610	5789201.5983
10	EP	2223920.3213	5789199.3217
11	EDGE CONC	2223932.7506	5789175.5462
12	EP	2223891.2107	5789205.0527
13	EDGE CONC	2223841.3606	5789192.4930
14	EP	2223890.1790	5789191.7509
15	EDGE CONC	2223919.3810	5789153.5986

Point Table			
Point #	Raw Description	Northing	Easting
16	EDGE CONC	2223917.2735	5789173.2377
17	EDGE CONC	2223823.6844	5789173.6522
18	EP	2223839.8722	5789202.3817
19	BLDG CRN	2223835.9864	5789138.9509
20	BLDG CRN	2223830.6065	5789174.6941
21	BLDG CRN	2223907.8818	5789186.3254
22	BLDG CRN	2223913.2618	5789150.5822
23	FW	2223841.5838	5789191.0098
24	FW	2223821.7600	5789181.9583
25	FW	2223816.8157	5789181.2141
26	FW	2223822.4221	5789143.9670
27	FW	2223817.5627	5789138.1793
28	FW	2223828.1106	5789139.7669
29	FW	2223812.0556	5789174.7672
30	FW	2223816.2557	5789180.4557

Point Table			
Point #	Raw Description	Northing	Easting
31	FW	2223805.7079	5789178.8680
32	FW	2223811.2150	5789142.2802
33	FW	2223803.0113	5789141.0454
34	FW	2223803.9031	5789136.1233
35	EDGE CONC	2223795.4936	5789184.0724
36	EDGE CONC	2223796.4589	5789178.1501
37	EDGE CONC	2223869.6844	5789138.9673
38	EDGE CONC	2223878.8880	5789140.3526

0 5 10 15 feet

1"=5'

DSA FILE #: x
DSA APP #: x
DSA TRACKING #: x

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REGISTERED PROFESSIONAL ENGINEER
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No. 76597
CIVIL
STATE OF CALIFORNIA

CONSULTANT

LICENSED ARCHITECT
KATHRYN ANNE NICKS
C38079
2-28-27
RENEWAL DATE
STATE OF CALIFORNIA

DSA BACK CHECK 2

MESA MIDDLE SCHOOL SCIENCE AND SPED CLASSROOMS

2555 S HALCYON RD, ARROYO GRANDE, CA

HORIZONTAL CONTROL PLAN

NO.	REVISION	DATE

PROJECT MANAGER
RAG

DRAWN BY
KC

CHECKED BY
RAC

DATE
APRIL 23, 2026

PROJECT NUMBER
0822-03-ED25

SHEET
C-6.1

N:\0801\0822-03-ED25-Mesa-MS-New-Science-SPED-Class-Bldg\Engineering\ConDocs\Sheet-Files\C-6.x_Horizontal Control Plan.dwg, C-6.1, Apr 21, 2026 9:13am, RAGomez

SITE SPECIFIC BMP NOTES

1. PERIMETER CONTROL BMP'S AND STABILIZED CONSTRUCTION ENTRANCES SHALL BE IN PLACE PRIOR TO ANY GROUND DISTURBANCE.
2. THESE PLANS ARE INTENDED TO REPRESENT DIFFERENT PHASES DURING CONSTRUCTION. THE CONTRACTOR SHALL IMPLEMENT THE BMP'S SHOWN AND/OR ANY OTHER MEASURES NECESSARY DURING CONSTRUCTION TO BE IN COMPLIANCE WITH THE GENERAL PERMIT. IMPLEMENTATION OF THE THE BMP'S SHOWN ON THESE PLANS DO NOT RELIEVE THE OWNER OR HIS/HER REPRESENTATIVE FROM RESPONSIBILITY OF IMPLEMENTING ALL MEASURES NEEDED TO BE IN COMPLIANCE.
3. THE CONTRACTOR SHALL USE CLASS II BASE FOR THE STABILIZED CONSTRUCTION ROADWAY OR ALTERNATE METHODS THAT ACHIEVE THE DESIRED RESULTS. THIS BMP SHALL BE IMPLEMENTED TO ALL BUILDING PADS PRIOR TO VERTICAL CONSTRUCTION, OR AS SOON AS PRACTICAL.
4. THE CONTRACTOR MAY UTILIZE RUMBLE PLATES IN LIEU OF RIP RAP AT THE CONSTRUCTION ENTRANCES AS LONG AS THEY ACCOMPLISH THE DESIRED RESULTS.
5. ANY SEDIMENTS TRACKED OFFSITE SHALL BE CLEANED DAILY BY MEANS OF MOBILE STREET SWEEPERS.
6. ANY GRADED AREAS THAT ARE GOING TO SIT IDLE FOR MORE THAN TWO WEEKS, SHALL HAVE AN APPROPRIATE GROUND COVER BMP APPLIED.
7. THE LOCATIONS SHOWN FOR THE EQUIPMENT AND MATERIAL DELIVERY STORAGE AREAS AND CONCRETE WASTE CLEANOUT MAY BE RELOCATED DURING CONSTRUCTION.
8. CLEANING STREETS AND SWEEPING MUST BE DONE AT THE END OF EACH WORK DAY TO THE SATISFACTION OF THE PUBLIC WORKS INSPECTOR.

CONTRACTOR'S NOTES

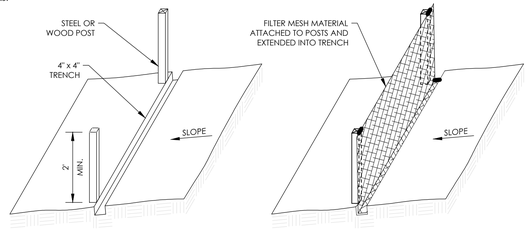
1. CONTRACTOR SHALL PREVENT WATER CONTAMINATION DURING CONSTRUCTION BY IMPLEMENTING THE FOLLOWING CONSTRUCTION SITE MEASURES:
   - A. ALL ENTRANCES/EXITS TO THE CONSTRUCTION SITE SHALL BE STABILIZED USING METHODS DESIGNED TO REDUCE TRANSPORT OF SEDIMENT OFF SITE.
   - B. STABILIZING MEASURES MAY INCLUDE BUT ARE NOT LIMITED TO USE OF GRAVEL PADS, STEEL RUMBLE PLATES, TEMPORARY PAVING, ETC.
   - C. ANY SEDIMENT OR OTHER MATERIALS TRACKED OFF SITE SHALL BE REMOVED THE SAME DAY AS THEY ARE TRACKED USING DRY CLEANING METHODS.
   - D. ENTRANCES/EXITS SHALL BE MAINTAINED UNTIL GRADED AREAS HAVE BEEN STABILIZED BY STRUCTURES, LONG-TERM EROSION CONTROL MEASURES OR LANDSCAPING.
   - E. APPLY CONCRETE, ASPHALT, AND SEAL COAT ONLY DURING DRY WEATHER.
   - F. COVER STORM DRAINS AND MANHOLES WITHIN THE CONSTRUCTION AREA WHEN PAVING OR APPLYING SEAL COAT, SLURRY, FOG SEAL, ETC.
   - G. STORE, HANDLE AND DISPOSE OF CONSTRUCTION MATERIALS AND WASTE SUCH AS PAINT, MORTAR, CONCRETE SLURRY, FUELS, ETC., IN A MANNER WHICH MINIMIZES THE POTENTIAL FOR STORM WATER CONTAMINATION.
2. WITHIN 30 DAYS OF COMPLETION OF GRADING ACTIVITIES, CONTRACTOR SHALL USE HYDRO-SEED, STRAW BLANKETS, GEOTEXTILE BINDING FABRICS OR OTHER P&D APPROVED METHODS AS NECESSARY TO HOLD SOIL IN PLACE SOILS UNTIL LANDSCAPE VEGETATION IS ESTABLISHED. P&D MAY REQUIRE THE RESEEDING OF SURFACES GRADED FOR THE PLACEMENT OF STRUCTURES IF CONSTRUCTION DOES NOT COMMENCE WITHIN 30 DAYS OF GRADING.
3. CONTRACTOR SHALL DESIGNATE A CONSTRUCTION EQUIPMENT FILLING AND STORAGE AREA(S) TO CONTAIN SPILLS, FACILITATE CLEAN-UP AND PROPER DISPOSAL AND PREVENT CONTAMINATION FROM DISCHARGING TO THE STORM DRAINS, STREET, DRAINAGE DITCHES, CREEKS, OR WETLANDS. THE AREAS SHALL BE NO LARGER THAN 50 X 50 FOOT UNLESS OTHERWISE APPROVED BY P&D AND SHALL BE LOCATED AT LEAST 100 FEET FROM ANY STORM DRAIN, WATER BODY OR SENSITIVE BIOLOGICAL RESOURCES.
4. GRADING AND EROSION AND SEDIMENT CONTROL PLANS SHALL BE DESIGNED TO MINIMIZE EROSION DURING CONSTRUCTION AND SHALL BE IMPLEMENTED FOR THE DURATION OF THE GRADING PERIOD AND UNTIL RE-GRADED AREAS HAVE BEEN STABILIZED BY STRUCTURES, LONG-TERM EROSION CONTROL MEASURES OR PERMANENT LANDSCAPING.
5. THESE MEASURES ARE REQUIRED FOR ALL PROJECTS INVOLVING EARTHMOVING ACTIVITIES REGARDLESS OF THE PROJECT SIZE OR DURATION. PROPER IMPLEMENTATION OF THESE MEASURES IS ASSUMED TO FULLY MITIGATE FUGITIVE DUST EMISSIONS. DURING CONSTRUCTION, USE WATER TRUCKS OR SPRINKLER SYSTEMS TO KEEP ALL AREAS OF VEHICLE MOVEMENT DAMP ENOUGH TO PREVENT DUST FROM LEAVING THE SITE. AT A MINIMUM, THIS SHOULD INCLUDE WETTING DOWN SUCH AREAS IN THE LATE MORNING AND AFTER WORK IS COMPLETED FOR THE DAY. INCREASED WATERING FREQUENCY SHOULD BE REQUIRED WHENEVER THE WIND SPEED EXCEEDS 15 MPH. RECLAIMED WATER SHOULD BE USED WHENEVER POSSIBLE. HOWEVER, RECLAIMED WATER SHOULD NOT BE USED IN OR AROUND CROPS FOR HUMAN CONSUMPTION. MINIMIZE AMOUNT OF DISTURBED AREA AND REDUCE ON SITE VEHICLE SPEEDS TO 15 MPH OR LESS. IF IMPORTATION, EXPORTATION AND STOCKPILING OF FILL MATERIAL IS INVOLVED, SOIL STOCKPILED FOR MORE THAN TWO DAYS SHALL BE COVERED, KEPT MOIST, OR TREATED WITH SOIL BINDERS TO PREVENT DUST GENERATION. TRUCKS TRANSPORTING FILL MATERIAL TO AND FROM THE SITE SHALL BE TARPED FROM THE POINT OF ORIGIN. GRAVEL PADS SHALL BE INSTALLED AT ALL ACCESS POINTS TO PREVENT TRACKING OF MUD ONTO PUBLIC ROADS. AFTER CLEARING, GRADING, EARTH MOVING OR EXCAVATION IS COMPLETED, TREAT THE DISTURBED AREA BY WATERING, OR REVEGETATING, OR BY SPREADING SOIL BINDERS UNTIL THE AREA IS PAVED OR OTHERWISE DEVELOPED SO THAT DUST GENERATION WILL NOT OCCUR.
6. THE CONTRACTOR OR BUILDER SHALL DESIGNATE A PERSON OR PERSONS TO MONITOR THE DUST CONTROL PROGRAM AND TO ORDER INCREASED WATERING, AS NECESSARY, TO PREVENT TRANSPORT OF DUST OFFSITE. THEIR DUTIES SHALL INCLUDED HOLIDAY AND WEEKEND PERIODS WHEN WORK MAY NOT BE IN PROGRESS. THE NAME AND TELEPHONE NUMBER OF SUCH PERSONS SHALL BE PROVIDED TO THE AIR POLLUTION CONTROL DISTRICT PRIOR TO LAND USE CLEARANCE FOR MAP RECORDATION AND LAND USE CLEARANCE FOR FINISH GRADING OF THE STRUCTURE.

NOTE:
THE PROJECT AREA OF DISTURBANCE IS UNDER 1 ACRE AND IS SUBSEQUENTLY EXEMPT FROM COVERAGE UNDER THE GENERAL PERMIT FOR DISCHARGES OF THE STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY CONSTRUCTION GENERAL PERMIT ORDER 2009-0009-DWQ.

WDID No. EXEMPT (UNDER 1 ACRE)

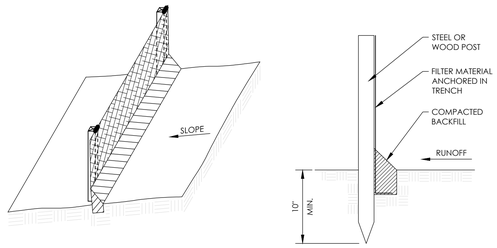
EROSION CONTROL DETAILS

N.T.S.



1 - SET POSTS & EXCAVATE TRENCH

2 - INSTALL FILTER FABRIC



3 - BACKFILL TRENCH

4 - CROSS SECTION OF INSTALLED FILTER FABRIC

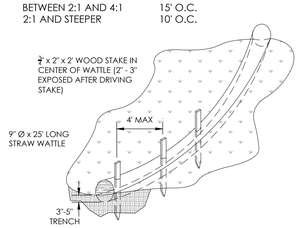
SILT FENCE CONSTRUCTION DETAIL
-NTS-

CONSTRUCTION SPECIFICATIONS:
- THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES (0.9 M). STORAGE HEIGHT AND PONDING HEIGHT SHALL NEVER EXCEED 18 INCHES (0.5 M).
- THE FENCE LINE SHALL FOLLOW THE CONTOUR AS CLOSELY AS POSSIBLE. IF POSSIBLE, THE FILTER FABRIC SHALL BE CUT FROM A CONTINUOUS ROLL TO AVOID THE USE OF JOINTS.
- JOINTS, WHEN NECESSARY, SHALL BE SPLICED ONLY AT A SUPPORT POST, WITH A MINIMUM 6 INCH (0.2 M) OVERLAP AND BOTH ENDS SECURELY FASTENED TO THE POST.
- POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET (3.1 M) APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES (0.3M)). WHEN EXTRA-STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET (1.8 M).
- TURN THE ENDS OF THE FENCE UPHILL.
- A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES (101 MM) WIDE AND 6 INCHES (0.2 M) DEEP ALONG THE LINE OF POSTS AND UP-SLOPE FROM THE BARRIER.
- WHEN STANDARD-STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UP-SLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH (25.4 MM) LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES (51MM) ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
- WHEN EXTRA-STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS.
- THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE TOE OF THE FILTER FABRIC.
- SILT FENCES PLACED AT THE TOE OF A SLOPE SHALL BE SET AT LEAST 6 FEET (1.8 M) FROM THE TOE IN ORDER TO INCREASE PONDING VOLUME.
- SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED AND ANY SEDIMENT STORED BEHIND THE SILT FENCE HAS BEEN REMOVED.

INSPECTION AND MAINTENANCE:
- SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED WEEKLY AFTER EACH SIGNIFICANT STORM (1 INCH (25.4 MM) IN 24 HOURS). ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- SEDIMENT SHOULD BE REMOVED WHEN IT REACHES 1/3 HEIGHT OF THE FENCE OR 9 INCHES (0.3 M) MAXIMUM.
- THE REMOVED SEDIMENT SHALL CONFORM WITH THE EXISTING GRADE AND BE VEGETATED OR OTHERWISE STABILIZED.

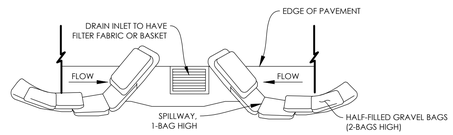
INSTALLATION TABLE

SLOPE	ROLL INTERVAL
4:1 OR FLATTER	20' O.C.
BETWEEN 2:1 AND 4:1	15' O.C.
2:1 AND STEEPER	10' O.C.

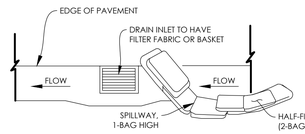


NOTES:
PLACE STRAW WATTLE IN TRENCH. WATTLE TO BE TIGHTLY BUTTED END TO END BUT NOT OVERLAPPING. MINIMUM 6 STAKES PER 25' OF WATTLE.

STRAW WATTLE DETAIL
-NTS-



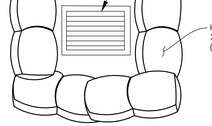
TYPICAL PROTECTION FOR INLET ON SUMP
-NTS-



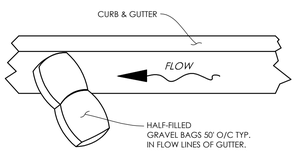
TYPICAL PROTECTION FOR INLET ON GRADE
-NTS-

NOTES:
1. INTENDED FOR SHORT TERM USE
2. USE TO INHIBIT NON-STORM WATER FLOWS
3. ALLOW FOR PROPER MAINTENANCE AND CLEANUP
4. BAGS MUST BE REMOVED AFTER ADJACENT OPERATION IS COMPLETE
5. NOT APPLICABLE IN AREAS WITH HIGH SILTS & WITHOUT FILTER FABRIC

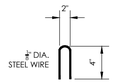
SE-10 STORM DRAIN INLET PROTECTION TYPE-3
-NTS-



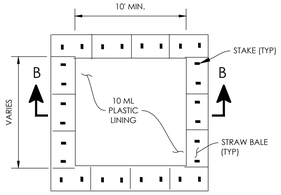
SE-10 STORM DRAIN INLET PROTECTION [ALTERNATE]
-NTS-



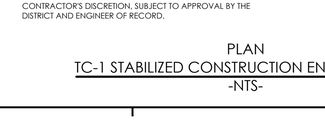
SE-6 GRAVEL BAGS IN FLOW LINE DETAIL
-NTS-



STAPLE DETAIL



"ABOVE GRADE" WITH STRAW BALES
-NTS-

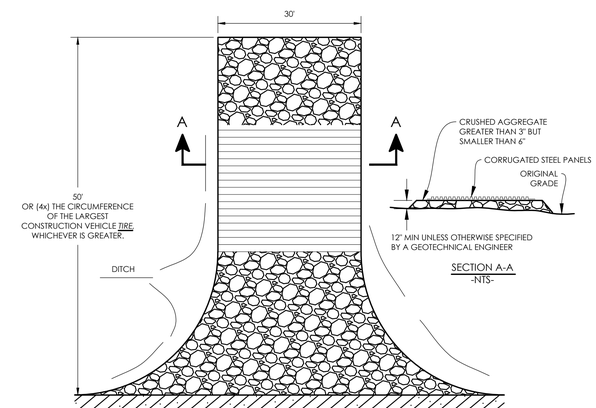


SECTION B-B
-NTS-

NOTES:
1. ACTUAL LAYOUT DETERMINED IN FIELD
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY

CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)

CONCRETE WASTE MANAGEMENT WM-8
-NTS-



SECTION A-A
-NTS-

NOTES:
MANUFACTURED STEEL RUMBLE PLATES MAY BE USED IN ADDITION TO OR IN LIEU OF STONE AT PROJECT ENTRANCES AT THE CONTRACTOR'S DISCRETION, SUBJECT TO APPROVAL BY THE DISTRICT AND ENGINEER OF RECORD.

PLAN
TC-1 STABILIZED CONSTRUCTION ENTRANCE/EXIT
-NTS-

DSA FILE #: x
DSA APP #: x
DSA TRACKING #: x

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REGISTERED PROFESSIONAL ENGINEER — ROBERT A. CAMACHO — No. 76597 — CIVIL — STATE OF CALIFORNIA

CONSULTANT

LICENSED ARCHITECT — KATHRYN ANNE NICOL — C38079 — 2-28-27 — RENEWAL DATE — STATE OF CALIFORNIA

DSA BACK CHECK 2

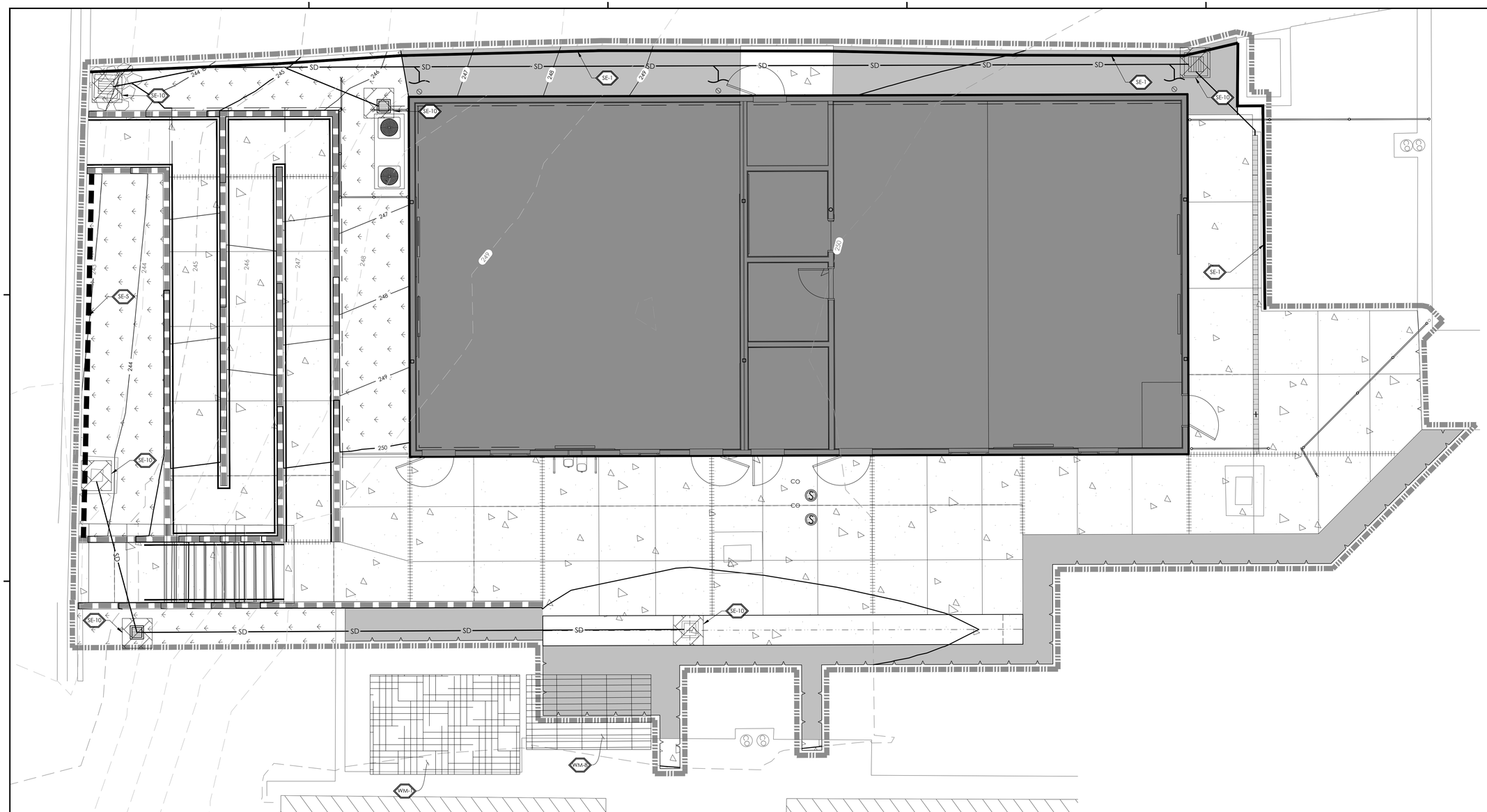
MESA MIDDLE SCHOOL SCIENCE AND SPED CLASSROOMS
2555 S HALCYON RD, ARROYO GRANDE, CA

BMP NOTES

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: RAG
DRAWN BY: KC
CHECKED BY: RAC
DATE: APRIL 23, 2026
PROJECT NUMBER: 0822-03-ED25
SHEET: C-7.1

N:\0801\0822-03-ED25-Mesa-MS-New-Science-SPED-Class-Bldg\Engineering\ConDocs\Sheet-Files\C-7.x_Erosion Control Plan.dwg, C-7.1, Apr 21, 2026 9:13am, RAGomez



BMP LEGEND

- SE-1 — SILT FENCE
- SE-5 — STRAW WATTLE
- SE-7 — STREET SWEEPING/VACUUMING
- SE-10 — STORM DRAIN INLET PROTECTION
- TC-1 — STABILIZED CONSTRUCTION ENTRANCE WITH WHEEL WASH AREA
- WM-1 — MATERIAL DELIVERY/STORAGE AREA
- WM-8 — CONCRETE WASTE MANAGEMENT AREA
- SE-6 — GRAVEL BAGS

NOTE:
MANUFACTURED STEEL RUMBLE STRIPS MAY BE USED IN LIEU OF STONE AT PROJECT ENTRANCES AT THE CONTRACTOR'S DISCRETION, SUBJECT TO APPROVAL BY THE DISTRICT AND ENGINEER OF RECORD.

0 5 10 15 feet
1"=5'

DSA FILE #: x
DSA APP #: x
DSA TRACKING #: x

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REGISTERED PROFESSIONAL ENGINEER
ROBERT A. CAMACHO
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STATE OF CALIFORNIA

CONSULTANT

LICENSED ARCHITECT
KATHRYN ANNE NICOL
C38079
2-28-27
RENEWAL DATE
STATE OF CALIFORNIA

MESA MIDDLE SCHOOL SCIENCE AND SPED CLASSROOMS

2555 S HALCYON RD, ARROYO GRANDE, CA

BMP PLAN

NO.	REVISION	DATE

PROJECT MANAGER: RAG
DRAWN BY: KC
CHECKED BY: RAC
DATE: APRIL 23, 2026
PROJECT NUMBER: 0822-03-ED25
SHEET: C-7.2

DSA BACK CHECK 2

N:\0801\0822-03-ED25-Mesa-MS-New-Science-SPED-Class-Bldg\Engineering\ConDocs\Sheet-Files\C-7.x_Erosion Control Plan.dwg, C-7.2, Apr 21, 2026, 9:15am, RAGomez

COMPLIANCE WITH MWELO

1. PROJECT INFORMATION - SEE COVER PAGE OF THIS DRAWING SET FOR ALL INFORMATION INCLUDING, DATE, PROJECT APPLICANT AND OWNER, AND ADDRESS.

   TOTAL LANDSCAPE AREA: ONSITE: XX SF
   SHRUBS GROUNDCOVER AND TREES - ONSITE: XX SF
   TURF - XX SF
2. PROJECT TYPE - NEW CONSTRUCTION
3. WATER SUPPLY - POTABLE
4. CHECKLIST OF ALL DOCUMENTS IN LANDSCAPE DOCUMENT PACKAGE:
   X LANDSCAPE DESIGN PLAN - INCLUDED IN THESE LANDSCAPE DRAWINGS
   X IRRIGATION DESIGN PLAN - INCLUDED IN THESE LANDSCAPE DRAWINGS
   X GRADING DESIGN PLAN - PER CIVIL SHEETS
5. WATER BUDGET CALCULATIONS (MAWA) AND (ETWU). SEE BELOW.
6. I AGREE TO COMPLY WITH THE REQUIREMENTS OF MWELO.

LANDSCAPE ARCHITECT | CA LICENSE NUMBER #4993

CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING ITEMS:
http://www.water.ca.gov/wateruseefficiency/docs/MWELO09-10-09.pdf

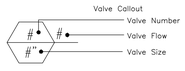
1. COMPOSTING
   INCORPORATE COMPOST AT A RATE OF AT LEAST FOUR CUBIC YARDS PER 1,000 SQUARE FEET TO A DEPTH OF SIX INCHES INTO LANDSCAPE AREA - UNLESS CONTRA-INDICATED BY A SOILS REPORT.
2. PLANT MATERIAL
   FOR RESIDENTIAL AREAS, INSTALL CLIMATE ADAPTED PLANTS THAT REQUIRE OCCASIONAL, LITTLE OR NO SUMMER WATER (AVERAGE WUCOLS PLANT FACTOR 0.3) FOR 75% OF THE PLANT AREA, EXCLUDING EDIBLES AND AREAS USING RECYCLED WATER.
3. IRRIGATION SYSTEM
   SHALL COMPLY WITH THE FOLLOWING:
   AUTOMATIC IRRIGATION CONTROLLERS ARE REQUIRED AND MUST USE EVAPOTRANSPIRATION OR SOIL MOISTURE SENSOR DATA AND UTILIZE A RAIN SENSOR.
   IRRIGATION CONTROLLERS SHALL BE A TYPE WHICH DOES NOT LOSE PROGRAMMING DATA IN THE EVENT THE PRIMARY POWER SOURCE IS INTERRUPTED.
   PRESSURE REGULATORS SHALL BE INSTALLED ON THE IRRIGATION SYSTEM TO ENSURE THE DYNAMIC PRESSURE OF THE SYSTEM IS WITHIN THE MANUFACTURER'S RECOMMENDED PRESSURE RANGE.
   ALL IRRIGATION EMISSION DEVICES MUST MEET THE REQUIREMENTS SET IN THE ANSI STANDARD, ASABE/ICC 802-2014 "LANDSCAPE IRRIGATION SPRINKLER AND EMITTER STANDARD," ALL SPRINKLER HEADS INSTALLED IN THE LANDSCAPE MUST DOCUMENT A DISTRIBUTION UNIFORMITY LOW QUARTER OF 0.65 OR HIGHER USING THE PROTOCOL DEFINED IN ASABE/ICC 802-2014.
   AREAS LESS THAN TEN (10) FEET IN WIDTH IN ANY DIRECTION SHALL BE IRRIGATED WITH SUBSURFACE IRRIGATION OR OTHER MEANS THAT PRODUCES NO RUNOFF OR OVERSPRAY.
4. FINAL INSPECTION
   AT THE TIME OF FINAL INSPECTION, THE CONTRACTOR MUST PROVIDE THE OWNER OF THE PROPERTY WITH A CERTIFICATE OF COMPLETION, CERTIFICATE OF INSTALLATION, IRRIGATION SCHEDULE AND A SCHEDULE OF LANDSCAPE AND IRRIGATION MAINTENANCE.

IRRIGATION NOTES

1. CONTRACTOR SHALL SLEEVE ALL LATERALS AND MAINLINES RUNNING UNDER PAVING.
2. IRRIGATION PLAN IS DIAGRAMMATIC. FINAL LOCATION OF PIPING WILL BE DETERMINED AT THE TIME OF INSTALLATION. MAINLINE AND LATERALS SHALL BE PLACED IN THE SAME TRENCH WHEN POSSIBLE. ALL Q.C. VALVES ARE TO BE LOCATED 12" FROM SIDEWALKS, CURBS, ASPHALT & CONCRETE SURFACES.
3. ALL EQUIPMENT REQUIRED BUT NOT SPECIFIED ON THE DRAWING, TO COMPLETE THE WORK, SHALL BE PROVIDED BY THE IRRIGATION CONTRACTOR
4. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND/OR SPECIFICATIONS.
5. CONTRACTOR SHALL COORDINATE POWER TO CONTROLLERS AND DEDICATE ONE (1) 20 AMP BREAKER FOR EACH CONTROLLER. THE AUTHORIZED REPRESENTATIVE SHALL REVIEW CONTROLLER LOCATIONS PRIOR TO INSTALLATION. 120 VOLT SERVICE AND HOOK-UP TO THE CONTROLLER SHALL BE COMPLETED BY A LICENSED ELECTRICAL CONTRACTOR. THIS COST IS TO BE A PART OF THE LANDSCAPE CONTRACTOR'S BID.
6. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLANS AND SITE CONDITIONS PRIOR TO BEGINNING WORK. SHOULD CONFLICTING INFORMATION BE FOUND ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE PROJECT LANDSCAPE ARCHITECT BEFORE PROCEEDING WITH THE WORK IN QUESTION.
7. DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY AT NO EXPENSE TO THE OWNER.
8. CONTRACTOR SHALL ADJUST HEADS AS NEEDED TO MINIMIZE OVERSPRAY ONTO HARDSCAPE AREAS.
9. SPLICING OF 24 VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. LEAVE A 24" COIL OF EXCESS WIRE AT EACH SPLICE. LABEL ALL WIRES W/ WATERPROOF MARKERS AT ALL SPLICES AND VALVE MANIFOLDS.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL MATERIAL APPEARING ON PLAN.
11. PROVIDE PVC SHUTOFF VALVE FOR EACH VALVE.
12. ALL EXISTING UTILITIES, WATER LINES AND FIRE HYDRANTS SHALL REMAIN CONNECTED AND IN FULL CONTINUOUS OPERATION DURING AND FOLLOWING ALL CONTRACT WORK.
13. CONTRACTOR SHALL MAKE ALL NECESSARY ADJUSTMENTS TO THE IRRIGATION SYSTEM FOLLOWING A PRECIPITATION TEST PER THE OWNER. ADJUSTMENTS SHALL INCLUDE BUT WILL NOT BE LIMITED TO: HEAD RELOCATION, CHANGING NOZZLES, AND ADJUSTING ARC PATTERNS TO ATTAIN 65% EFFICIENT UNIFORMITY AS REQUIRED BY THE OWNER.
14. CONTRACTOR SHALL SLEEVE ALL PIPE CROSSINGS UNDER HARDSCAPE. ALL SLEEVES UNDER PAVING SHALL RECEIVE IDENTIFYING MARK ON TOP OF HARDSCAPE AT EDGE OF PLANTER TO INDICATE LOCATION OF SLEEVE. EXTEND ALL SLEEVES 18" BEYOND EDGE OF HARDSCAPE, TYP.
15. ALL NEW IRRIGATION BOXES, AND ADDITIONAL BOXES SHALL BE LOCATED IN PLANTING AREAS 18" MIN. AWAY FROM ADJACENT PAVING AND 5' MIN. AWAY FROM IMMEDIATE BUILDING ENTRIES.
16. EXTRA VALVE WIRES SHALL BE PROVIDED FOR EACH VALVE STATION NOT USED ON PROPOSED CONTROLLER. UNLESS OTHERWISE NOTED ON PLANS, VALVE WIRES SHALL BE EXTENDED AND LOCATED IN TWO (2) VALVE BOXES EACH LOCATED AT POLAR OPPOSITE ENDS OF THE PROJECT SITE.
17. FOR ALL DRIP AREAS: CONTRACTOR TO INSTALL AIR RELIEF VALVES, OPERATION INDICATORS AND FLUSH VALVES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
18. CONTRACTOR SHALL NOT INSTALL ANY PLANTING UNTIL THE FOLLOWING ARE COMPLETED: 1. THE IRRIGATION SYSTEM SHALL BE FULLY OPERATIONAL. 2. HYDROSTATIC PRESSURE TESTS SHALL BE PERFORMED ON MAIN AND LATERAL LINES. 3. ALL ZONES SHALL PASS A COVERAGE TEST. 4. CONTROLLERS SHALL BE FULLY OPERATIONAL.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	RAIN BIRD RWS-B-C 1401 ROOT WATERING SYSTEM WITH 4.0IN. DIAMETER X 36.0IN. LONG WITH LOCKING GRATE, SEMI-RIGID MESH TUBE, AND CHECK VALVE. RAIN BIRD BUBBLER OPTION AS INDICATED: 1401 0.25 GPM, 1402 0.5 GPM, 1404 1.0 GPM, 1408 2.0 GPM.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	RAIN BIRD XCZ-100-PRF MEDIUM FLOW DRIP CONTROL KIT, 1" DV VALVE, 1" PRESSURE REGULATING FILTER, 40PSI PRESSURE REGULATOR, 3GPM - 15GPM.
	PIPE TRANSITION POINT ABOVE GRADE PIPE TRANSITION POINT FROM PVC LATERAL TO DRIP TUBING WITH RISER TO ABOVE GRADE INSTALLATION.
	AREA TO RECEIVE DRIP EMITTERS RAIN BIRD PCT PRESSURE COMPENSATING THREADED LOW-FLOW BUBBLERS. OFFERED IN 5 GPH, 7 GPH, AND 10 GPH MODELS, WITH 1/2IN. FPT THREADED INLET. LIGHT BROWN = 5 GPH, VIOLET = 7 GPH, AND GREEN = 10 GPH. Emitter Notes: PCT-05 emitters (1 assigned to each 1 gal plant) PCT-05 emitters (1 assigned to each 5 gal plant) PCT-05 emitters (1 assigned to each 15 gal plant)
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	HUNTER ICV-G 1IN., 1-1/2IN., 2IN., AND 3IN. PLASTIC ELECTRIC REMOTE CONTROL VALVES, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE.
	LANDSCAPE PRODUCTS INC. BBV 1/2IN., 3/4IN., 1IN., 1-1/4IN., 1-1/2IN., 2IN., 2-1/2IN., 3IN. FULL PORT BRASS BALL VALVE. SUITABLE FOR A FULL RANGE OF LIQUIDS AND GASES IN RESIDENTIAL AND COMMERCIAL APPLICATIONS.
C	BASELINE BL-1000XS-R12 12-STATION CONVENTIONAL WIRE CONTROLLER IN LARGE 16-GAUGE STAINLESS-STEEL WALL MOUNT ENCLOSURE, BASE MODEL 50 STATIONS, EXPANDABLE TO 75 OR 100 STATIONS.
POC	POINT OF CONNECTION 2" AVAILABLE PSI TO BE CONFIRMED IN FIELD
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40
	IRRIGATION MAINLINE: PVC SCHEDULE 40
	PIPE SLEEVE: PVC SCHEDULE 40



EXISTING IRRIGATION

- EXISTING SPRAY HEAD
- EXISTING VALVE
- EXISTING MAINLINE

WATER USE CALCULATIONS

WATER EFFICIENT LANDSCAPE WORKSHEET

This worksheet is filled out by the project applicant and it is a required element of the Landscape Document Package

Reference Evapotranspiration (Eto) 32.9

Hydrozone # /Planting Description*	Plant Factor (PF)	Irrigation Method	Irrigation Efficiency (IE)	ETAF (PF/IE)	Landscape Area (Sq, ft)	ETAF x Area	Estimated Total Water Use (ETWU)
Regular Landscape Areas							
1 - Low Use Shrubs	0.3	Drip	0.81	0.37	186	68.89	1,405
3- Low Use Trees	0.3	Bubbler	0.81	0.37	600	222.22	4,533
				Totals	786	291.11	5,938
Special Landscape Areas							
Play Field				1	0		0
Edibles				1	0		0
Other				1	0		0
				Totals	0		0
						ETWU Total	5,938
						Maximum Allowed Water Allowance (MAWA)	**7,215**

Hydrozone #/Planting Description	*Irrigation Method*	*Irrigation Efficiency*	*ETWU (Annual Gallons Required)*
E.G. *1.) front lawn* *2.) low water use plantings* *3.) medium water use planting*	*overhead spray or drip*	*0.75 for spray head* *0.81 for drip*	*Eto x 0.62 x (ETAF x Area)* *where 0.62 is a conversion factor that converts acre inches per acre per year to galls per square foot per year.*

*MAWA (Annual Gallons Allowed) = (Eto) (0.62) [(ETAF x LA)]+((1-ETAF) x SLA)]

where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year. LA is the total landscape area in square feet. SLA is the total special landscape area in square feet, and ETAF is .55 for residential areas and 0.45 for non-residential areas.

ETAF Calculations

Regular Landscape Areas	
Total ETAF x Area	(B)
Total Area	(A)
Average ETAF	B / A

All Landscape Areas	
Total ETAF x Area	(B+D)
Total Area	(A+C)
Sitewide ETAF	(B+D) / (A+C)

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.

CRITICAL ANALYSIS

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P.O.C. NUMBER: 01	
Water Source Information:	AVAILABLE PSI TO BE CONFIRMED IN FIELD
FLOW AVAILABLE	
Point of Connection Size:	2"
Flow Available	77.18 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	0 PSI
Pressure Available:	0 PSI
DESIGN ANALYSIS	
Maximum Station Flow:	0.5 GPM
Flow Available at POC:	77.18 GPM
Residual Flow Available:	76.68 GPM
Design Pressure:	30 PSI
Friction Loss:	0.01 PSI
Fittings Loss:	0 PSI
Elevation Loss:	0 PSI
Loss through Valve:	2 PSI
Pressure Req. at Critical Station:	32.0 PSI
Loss for Fittings:	0 PSI
Loss for Main Line:	0.0 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	0 PSI
Critical Station Pressure at POC:	32.0 PSI
Pressure Available:	0 PSI
Residual Pressure Available:	-32.01 PSI

DSA FILE #: x
DSA APP #: x
DSA TRACKING #: x

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CONSULTANT

LICENSED ARCHITECT — KATHRYN ANNE HICKS — C38079 — 2-28-27 — RENEWAL DATE — STATE OF CALIFORNIA

MESA MIDDLE SCHOOL SCIENCE AND SPED CLASSROOMS
2555 S HALCYON RD, ARROYO GRANDE, CA

IRRIGATION SCHEDULE AND NOTES

NO.	REVISION	DATE

PROJECT MANAGER CD
DRAWN BY EH | **CHECKED BY** CD
DATE APRIL 23, 2026
PROJECT NUMBER 0822-03-ED25
SHEET LI001

DSA BACK CHECK 2

\\EgnyteDrive\On-Site\0801\0822-03-ED25-Mesa-MS-New-Science-SPED-Class-Bldg\Landscape-Architecture\2-Con Docs_Sheet Files\LI-0822-03.dwg, LI001, Feb 19, 2026 2:54pm, EHousley

EXISTING VALVE TO BE REMOVED

EXISTING MAINLINE UNDER PROPOSED IMPROVEMENTS TO BE REMOVED

PROPOSED BUILDING

REPLACE EXISTING IRRIGATION SPRAY HEADS AT RESTORED LAWN, TYP

CONNECT NEW MAINLINE TO EXISTING MAINLINE

1 0.5 1"

2 2.83 1"

0 5 10 15 feet

1"=5'

DSA FILE #: x
DSA APP #: x
DSA TRACKING #: x

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Registered
08/30/26
Renewal Date
STATE OF CALIFORNIA

CONSULTANT

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KATHRYN ANNE HICKS
C 38079
2-28-27
RENEWAL DATE
STATE OF CALIFORNIA

MESA MIDDLE SCHOOL SCIENCE AND SPED CLASSROOMS
2555 S HALCYON RD, ARROYO GRANDE, CA

IRRIGATION PLAN

NO.	REVISION	DATE

PROJECT MANAGER
CD

DRAWN BY EH
CHECKED BY CD

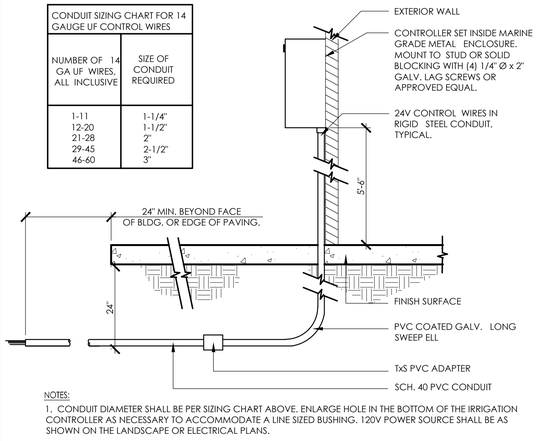
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PROJECT NUMBER
0822-03-ED25

SHEET
LI101

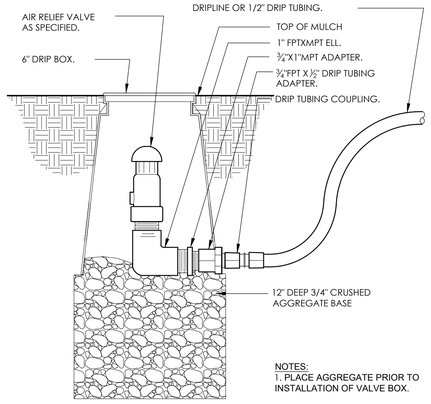
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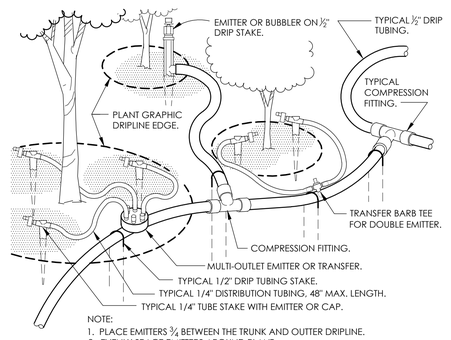
I EXTERIOR WALL MOUNTED CONTROLLER

3" = 1'-0" RRM-0801-0822.03-10



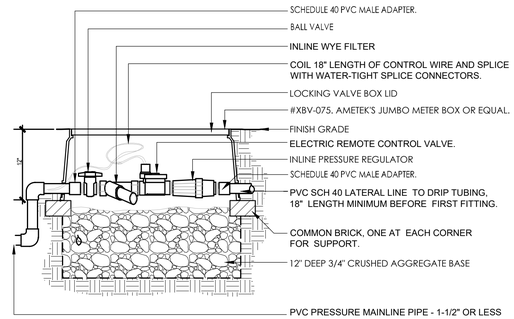
H DRIP AIR RELIEF VALVE IN BOX

3" = 1'-0" RRM-0801-0822.03-38



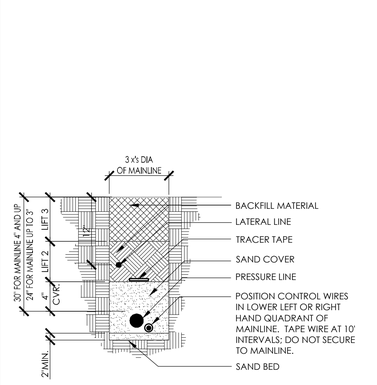
F TYPICAL DRIP TUBING

1 1/2" = 1'-0" RRM-0801-0822.03-43

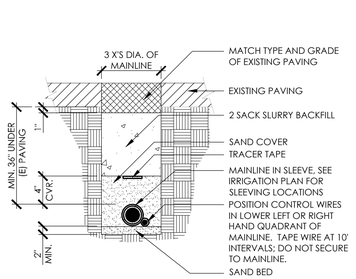


C DRIP VALVE ASSEMBLY

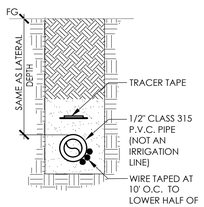
1/2" = 1'-0" RRM-0801-0822.03-55



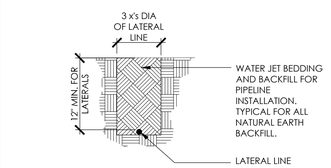
MAINLINE COMBINED WITH LATERAL LINE



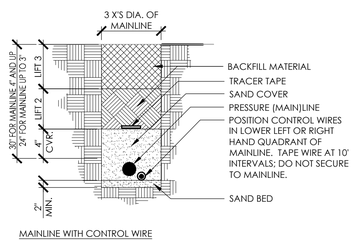
MAINLINE WITH CONTROL WIRE BELOW EXISTING PAVING



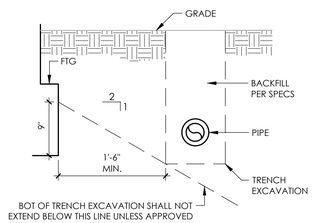
CONTROL WIRE SEPARATE FROM PIPE



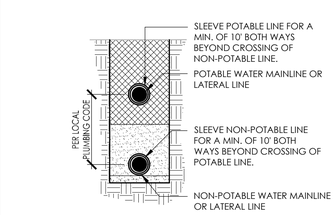
LATERAL LINE



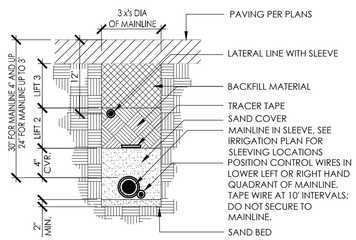
MAINLINE WITH CONTROL WIRE



PIPES PARALLEL TO FOOTINGS



RECLAIMED WATER & POTABLE WATER PIPE



MAINLINE COMBINED WITH LATERAL LINE UNDER PAVEMENT

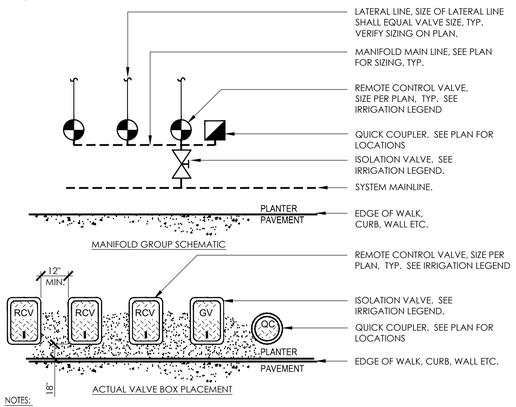
NOTES:
1. PIPE BEDDING AND BACKFILL SHALL BE WATER JETTED TO ACHIEVE PROPER DENSIFICATION.
2. PIPE AND CONTROL WIRE CROSSING VECHICULAR ROADWAY SHALL BE SLEEVED PER PLANS AND THIS DETAIL
3. ELECTRICAL SLEEVE: 3" MIN; LARGER IF REQUIRED BY INSPECTOR.
4. IRRIGATION SLEEVE: TWO PIPE SIZES LARGER THAN WATER PIPE SIZE.
5. SHOW ALIGNMENT OF ALL CONTROL WIRE NOT INSTALLED WITH MAINLINE ON AS-BUILT DRAWINGS.

G TRENCHING

1" = 1'-0" RRM-0801-0822.03-99

E WIRING CONNECTIONS

1 1/2" = 1'-0" RRM-0801-0822.03-52



NOTES:
1. ALL VALVES SHALL BE RUN OFF A MANIFOLD GROUP SIMILAR TO THAT SHOWN IN ABOVE DIAGRAM.
2. ALL BOXES SHALL BE SQUARE TO ONE ANOTHER, AND TO EDGES OF ADJACENT FIXED OBJECTS.
3. ALL VALVE BOXES SHALL BE SET 2" ABOVE FINISH GRADE.
4. SEE IRRIGATION PLAN FOR MAINLINE PIPE SIZING.
5. ALL VALVE BOXES SHALL HAVE EMBOSSED LETTERING ON THEM BASED ON EQUIPMENT/VALVE TYPE.

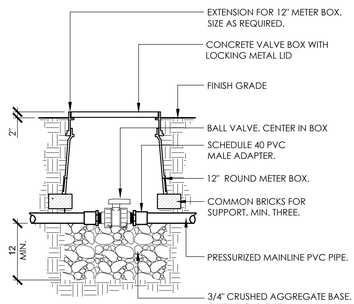
D VALVE BOX LAYOUT IN PLANTERS

3/8" = 1'-0" RRM-0801-0822.03-53

NOTE:
PLACE AGGREGATE PRIOR TO INSTALLATION OF VALVE BOX.

B REMOTE CONTROL VALVE

1" = 1'-0" RRM-0801-0822.03-54



NOTE:
PLACE AGGREGATE PRIOR TO INSTALLATION OF VALVE BOX.

A BALL VALVE

1" = 1'-0" RRM-0801-0822.03-01

DSA FILE #: x
DSA APP #: x
DSA TRACKING #: x

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CONSULTANT

LICENSED ARCHITECT — KATHRYN ANNE HICKS — C38079 — 2-28-27 RENEWAL DATE — STATE OF CALIFORNIA

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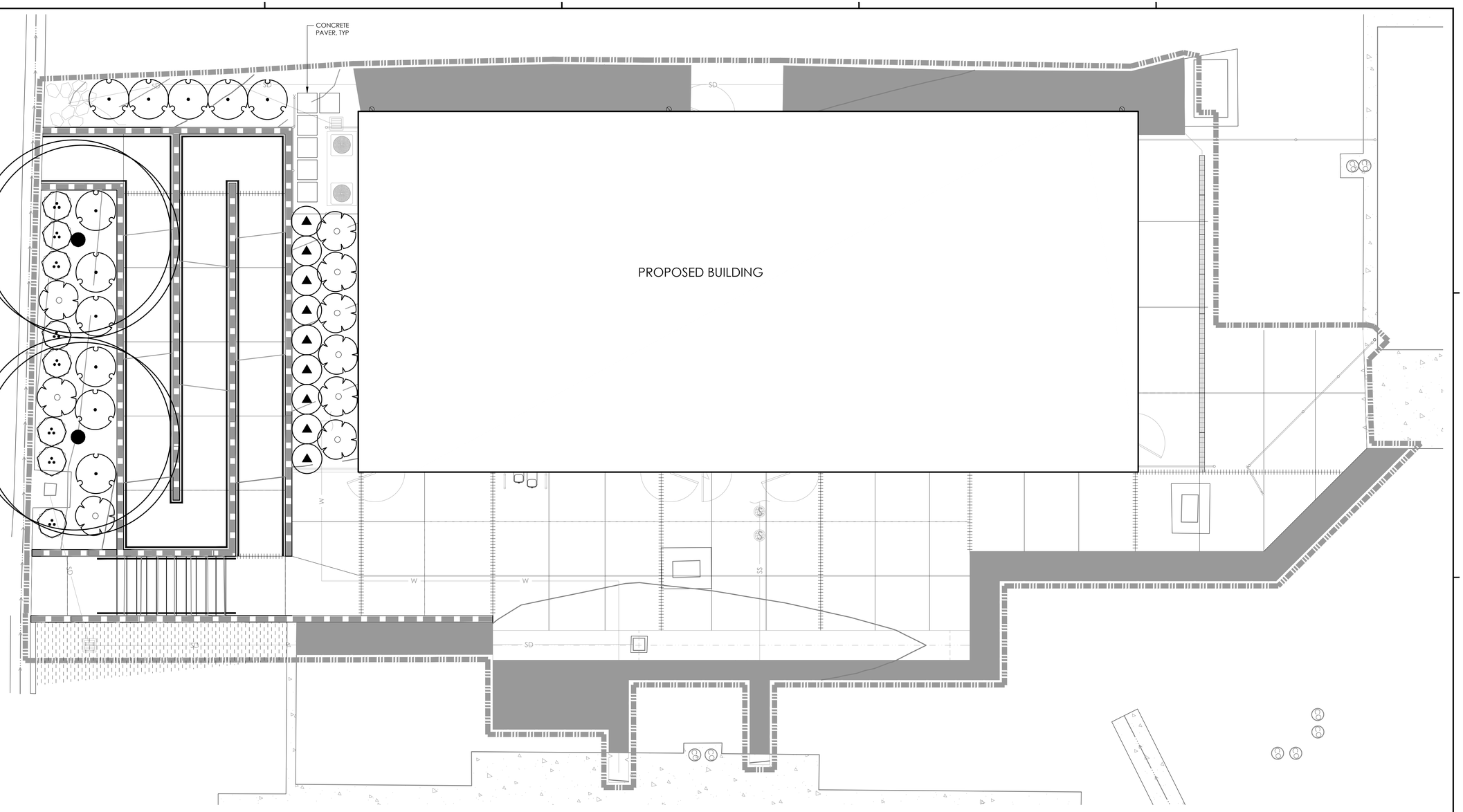
IRRIGATION DETAILS

NO.	REVISION	DATE

PROJECT MANAGER: CD
DRAWN BY: EH | CHECKED BY: CD
DATE: APRIL 23, 2026
PROJECT NUMBER: 0822-03-ED25
SHEET: LI501

DSA BACK CHECK 2

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PLANT SCHEDULE

SYMBOL	BOTANICAL NAME	COMMON NAME	CONT	WUCOLS
TREES				
	OLEA EUROPAEA 'SWAN HILL'	FRUITLESS OLIVE	24" BOX	LOW
SHRUBS				
	CISTUS X SKANBERGII	CORAL ROCKROSE	5 GAL	LOW
	LAVANDULA ANGUSTIFOLIA	ENGLISH LAVENDER	5 GAL	LOW
	LOMANDRA LONGIFOLIA 'BREEZE'	BREEZE™ MAT RUSH	5 GAL	LOW
	WESTRINGIA FRUTICOSA `GREY BOX`	DWARF COAST ROSEMARY	5 GAL	LOW
SYMBOL	BOTANICAL NAME	COMMON NAME	CONT	WUCOLS
GROUND COVERS				
	TURF MARATHON II		SOD	MODERATE

0 5 10 15 feet
1"=5'

DSA FILE #: x
DSA APP #: x
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CHRISTOPHER B. DUFOUR NO. 5941
Registered
08/30/26
Renewal Date
STATE OF CALIFORNIA

CONSULTANT

LICENSED ARCHITECT
KATHRYN ANNE NICOL
C38079
2-28-27
RENEWAL DATE
STATE OF CALIFORNIA

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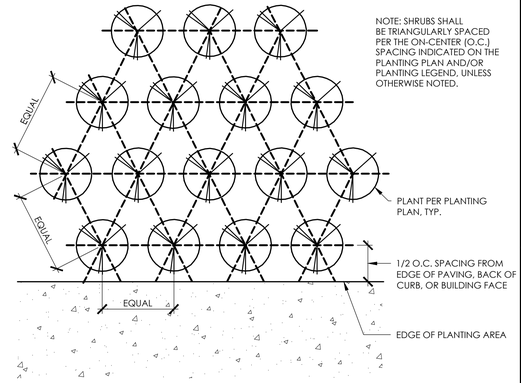
MESA MIDDLE SCHOOL SCIENCE AND SPED CLASSROOMS
2555 S HALCYON RD, ARROYO GRANDE, CA

PLANTING PLAN

NO.	REVISION	DATE

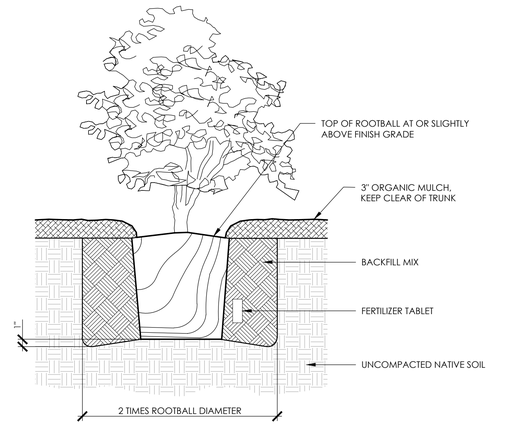
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CD
DRAWN BY EH
CHECKED BY CD
DATE
APRIL 23, 2026
PROJECT NUMBER
0822-03-ED25
SHEET
LP101

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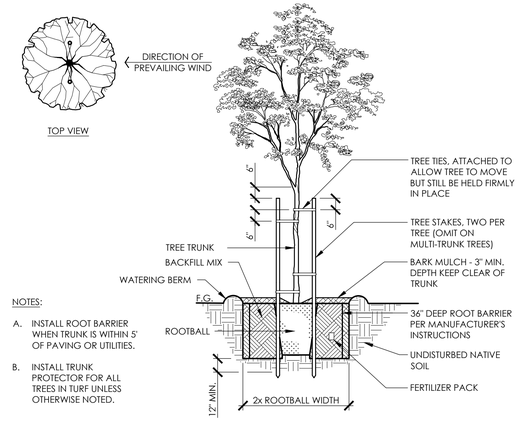
C SHRUB SPACING

1 1/2" = 1'-0" RRM-0801-0822.03-07



B SHRUB PLANTING

1 1/2" = 1'-0" RRM-0801-0822.03-42



NOTES:

A. INSTALL ROOT BARRIER WHEN TRUNK IS WITHIN 5' OF PAVING OR UTILITIES.

B. INSTALL TRUNK PROTECTOR FOR ALL TREES IN TURF UNLESS OTHERWISE NOTED.

A TREE PLANTING WITH WOOD STAKING

1/2" = 1'-0" RRM-0801-0822.03-11

DSA BACK CHECK 2

DSA FILE #: x
DSA APP #: x
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RENEWAL DATE
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PLANTING DETAILS

NO.	REVISION	DATE
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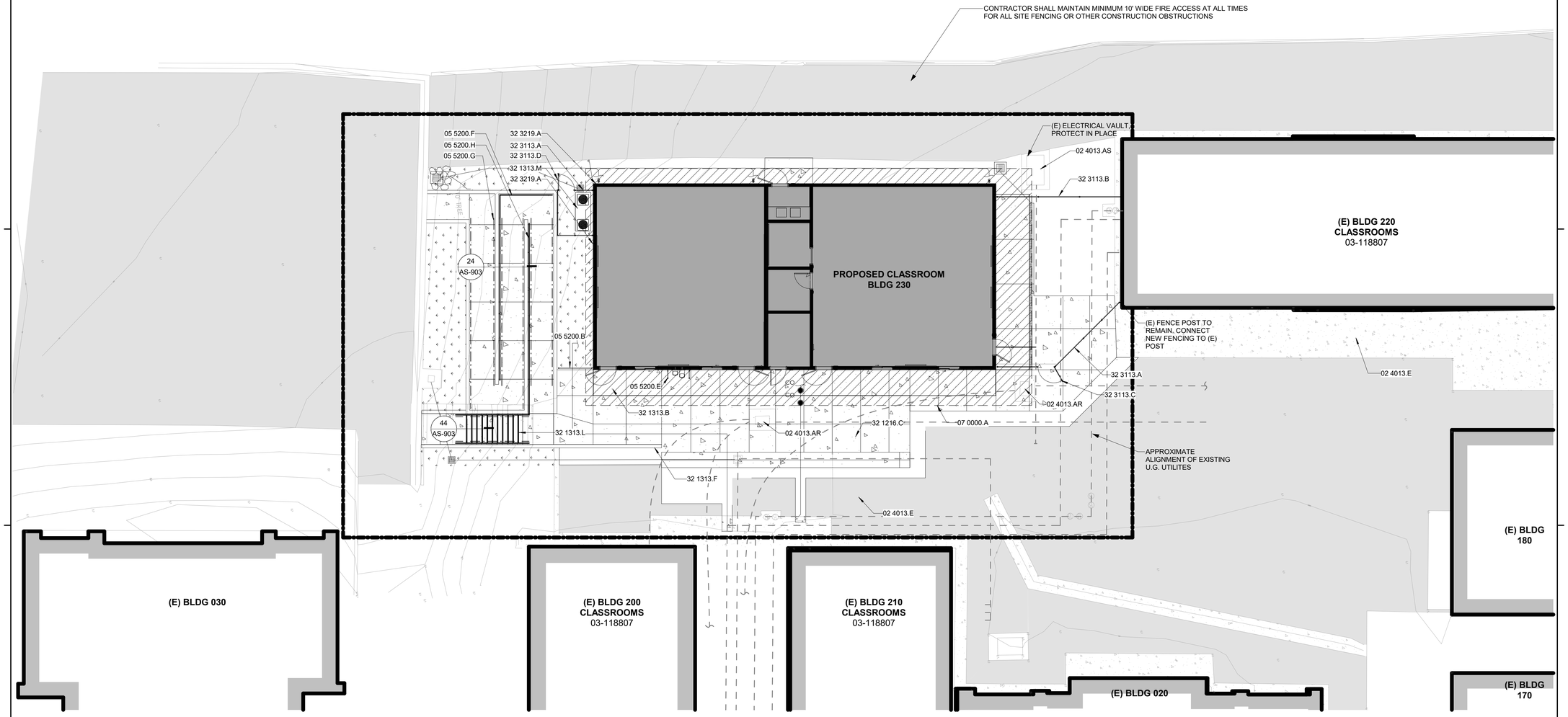
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EH	CD

DATE
APRIL 23, 2026

PROJECT NUMBER
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1 ARCHITECTURAL SITE PLAN

A-201 | AS-101 SCALE: 1" = 10'-0"

SITE PLAN NOTES

1. REFER TO CIVIL, LANDSCAPE, AND ELECTRICAL SITE PLAN FOR ADDITIONAL INFORMATION.
2. CONTRACTOR TO PERFORM TRADE COORDINATION AND LAY OUT FENCE FOOTINGS HORIZONTALLY IN CONJUNCTION WITH EXISTING AND PROPOSED UNDERGROUND UTILITIES. NOTIFY ARCHITECT OF POTENTIAL CONFLICT PRIOR TO INSTALLATION.

KEYNOTES

02 4013.AR	EXISTING UTILITY VAULT, PROTECT IN PLACE.
02 4013.AS	EXISTING ELECTRICAL VAULT, PROTECT IN PLACE.
02 4013.E	EXISTING PAVING TO REMAIN.
05 5200.B	GALVANIZED STEEL BARRIER RAIL.
05 5200.E	STAINLESS STEEL BARRIER RAIL. REFER TO 22/A-904
05 5200.F	GALVANIZED STEEL GUARDRAIL.
05 5200.G	GALVANIZED STEEL HANDRAIL.
05 5200.H	GALVANIZED STEEL GUARDRAIL WITH ATTACHED HANDRAIL.
07 0000.A	EDGE OF ROOF OVERHEAD.
32 1216.C	PROPOSED AC PAVING, REFER TO CIVIL.
32 1313.B	CONCRETE PAVING FOR PEDESTRIAN TRAFFIC, REFER TO DETAIL 11/AS-902
32 1313.F	CONCRETE CURB AT WALKWAY. REFER TO DETAIL 21/AS-903
32 1313.L	EXTERIOR CONCRETE STAIRS.
32 1313.M	CONCRETE PAD FOR MECHANICAL EQUIPMENT. REFER TO STRUCTURAL DETAIL 34/S-302.
32 3113.A	6' TALL CHAIN LINK FENCE, REFER TO DETAILS ON AS-904. COORDINATE FENCE POST AND FOOTING LOCATIONS WITH EXISTING UTILITY LINES.
32 3113.B	8' TALL CHAIN LINK FENCE, REFER TO DETAILS ON AS-904. COORDINATE FENCE POST AND FOOTING LOCATIONS WITH EXISTING UTILITY LINES.
32 3113.C	6' TALL CHAIN LINK ACCESSIBLE GATE, REFER TO DETAILS ON AS-904. COORDINATE FENCE POST AND FOOTING LOCATIONS WITH EXISTING UTILITY LINES.
32 3113.D	6' TALL CHAIN LINK MAINTENANCE GATE, REFER TO DETAILS ON AS-904. COORDINATE FENCE POST AND FOOTING LOCATIONS WITH EXISTING UTILITY LINES.
32 3219.A	RETAINING WALL. REFER TO STRUCTURAL CALCULATION PAGE 223 FOR SURCHARGE ON RETAINING WALL AND PAGE 248 FOR SURCHARGE ON COMBINED FOOTING.

LEGEND

- PROPERTY LINE
- APPROXIMATE LIMIT OF WORK
- CHAIN LINK FENCE / GATE
- RAMP / STAIR GUARDRAIL
- RAMP / STAIR HANDRAIL
- RAMP / STAIR GUARDRAIL WITH ATTACHED HANDRAIL
- APPROXIMATE ALIGNMENT OF EXISTING UNDERGROUND UTILITES
- EXISTING BUILDING TO REMAIN
- PROPOSED BUILDING
- PROPOSED COVERED WALKWAY ABOVE
- EXISITNG COVERED WALKWAY ABOVE
- CONCRETE PAVING FOR PEDESTRIAN USE, REFER TO CIVIL DRAWINGS
- PLANTING OR LANDSCAPE AREA, REFER TO CIVIL & LANDSCAPE DRAWINGS

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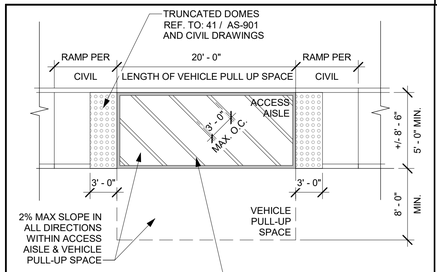
ARCHITECTURAL SITE PLAN

NO.	REVISION	DATE

PROJECT MANAGER	KH
DRAWN BY	DK
CHECKED BY	KF
DATE	APRIL 23, 2026
PROJECT NUMBER	0822-03-ED25
SHEET	AS-101

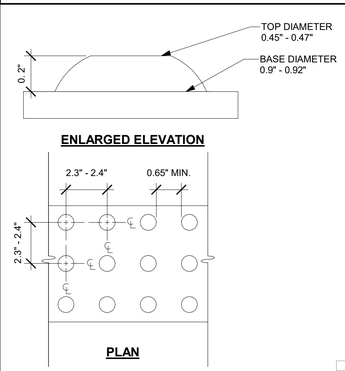
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NOTE:
REFER TO CIVIL PLANS FOR ADDITIONAL GRADING AND STRIPING INFORMATION.
FLOOR AND GROUND SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTANT.

51 ACC. DROP OFF
D-901 AS-901 SCALE: 1/8" = 1'-0"



REF: CBC 11B-705.1

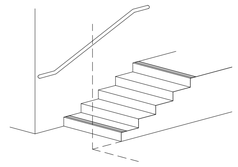
41 ACC. TRUNCATED DOMES
AS-901 SCALE: 3" = 1'-0"

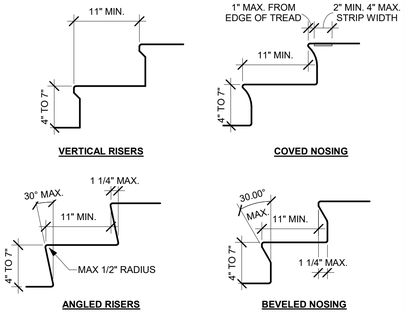
NOTES:
1. TREAD & LANDING SURFACES SHALL BE STABLE, FIRM & SLIP RESISTANT.
2. STAIR TREADS & RISERS SHALL BE OF UNIFORM SIZE AND SHAPE.
3. ALL NOSING SHALL BE UNIFORM SIZE, INCLUDING EDGE OF FLOOR AT TOP OF FLIGHT.
4. TREADS SHALL BE PERMITTED TO HAVE A SLOPE NOT STEEPER THAN 1:48 IN ANY DIRECTION.

WARNING STRIPS:
- MIN. 2" TO MAX. 4" WIDE; FULL WIDTH OF STAIR.
- MUST BE CLEARLY CONTRASTING COLOR FROM ADJOINING SURFACES.
- THE STRIP MUST BE MADE OF A MATERIAL THAT IS AT LEAST AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR.

EXTERIOR STAIRS:
- ALL TREADS MUST BE PROVIDED WITH A WARNING STRIP.
- PAINTED OR GROOVED STRIPES NOT ACCEPTABLE; MATERIAL SHALL BE AT LEAST AS SLIP RESISTANT AS TREADS.
- EXTERIOR STAIRS SHALL DESIGNED TO PREVENT THE ACCUMULATION OF WATER.

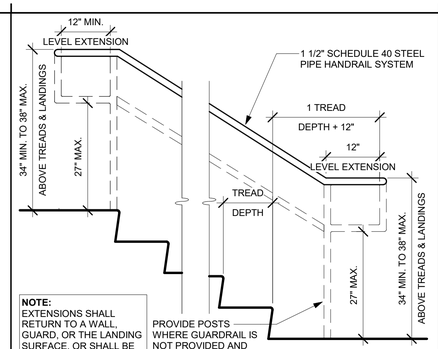
INTERIOR STAIRS:
- UPPER APPROACH AND LOWEST TREAD MUST BE MARKED.





REF: CBC 11B-504

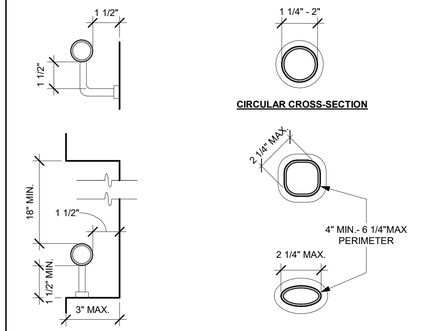
32 ACC. STAIR COMPLIANCE
AS-901 SCALE: 1" = 1'-0"



NOTE:
EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.

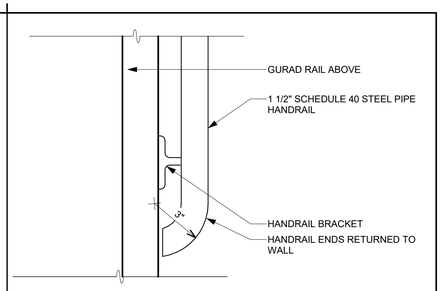
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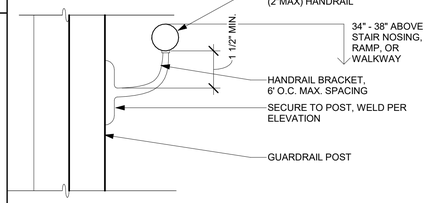
21 ACC. HANDRAIL @ STAIRS
AS-901 SCALE: 3/4" = 1'-0"



REF: CBC 11B-505

22 ACC. HANDRAIL SECTION PROFILES
AS-901 SCALE: 3" = 1'-0"

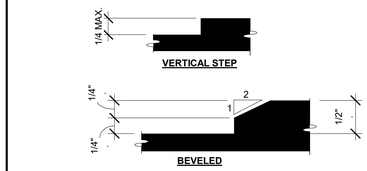




NOTE:
1) HANDRAIL TO HAVE SMOOTH SURFACE WITH NO SHARP CORNERS
2) HANDRAILS TO ACCOMMODATE 50LBS/FT LATERAL LOAD
3) WALL MOUNTED HANDRAILS SHALL RETURN TO WALL AT ENDS

REF: CBC 11B-505

12 HANDRAIL ATTACHMENT AT WALL
AS-901 SCALE: 3" = 1'-0"

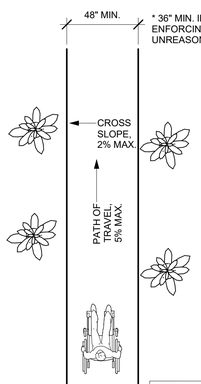


NOTES:
1. VISUAL CHARACTERS TO COMPLY WITH CBC 11B-703.5
2. SIGN TO BE A NON-GLARE FINISH AND CHARACTERS TO CONTRAST WITH THEIR BACKGROUND.
3. CHARACTERS TO BE UPPERCASE AND CONVENTIONAL IN FORM.
4. CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE UPPERCASE LETTER "O" IS 60% MINIMUM AND 110% MAXIMUM THE HEIGHT OF UPPERCASE LETTER "I".
5. CHARACTER HEIGHT TO COMPLY WITH TABLE 11B-703.5.5 AND BE BASED ON UPPER CASE LETTER "I"
6. STROKE THICKNESS OF UPPER CASE LETTER "I" SHALL BE 10% MIN. AND 20% MAX. OF HEIGHT
7. CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT CHARACTERS. SPACING SHALL BE 10% MIN, AND 35% MAX. OF CHARACTER HEIGHT
8. SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF CHARACTERS WITHIN A MESSAGE SHALL BE 135% MIN. AND 170% MAX. OF CHARACTER HEIGHT.
9. TEXT SHALL BE IN A HORIZONTAL FORMAT.
10. CONTRACTOR TO CONFIRM ORIENTATION OF SIGNAGE WITH ARCHITECT PRIOR TO INSTALLATION.

52 ACC. ROUTE SIGNAGE
AS-901 SCALE: 3/4" = 1'-0"

CHANGES IN LEVEL

REF: CBC 11B-303.2.3

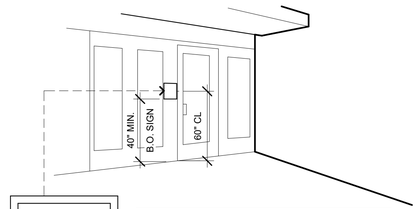


NOTE:
THE RUNNING SLOPE OF SIDEWALKS SHALL NOT EXCEED THE GENERAL GRADE ESTABLISHED FOR THE ADJACENT STREET

ALLOWABLE SLOPE AND CROSS SLOPE

REF: CBC 11B-402

54 ACC. WALKS
AS-901 SCALE: 1/4" = 1'-0"



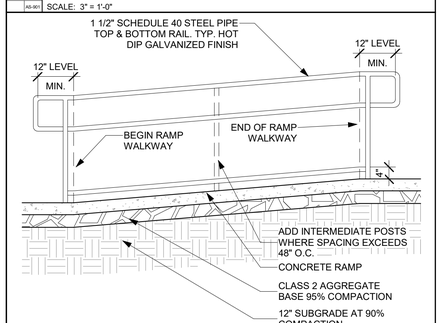


INTERNATIONAL SYMBOL OF ACCESSIBILITY

NOTE:
AT EVERY PRIMARY PUBLIC ENTRANCE AND AT EVERY MAJOR JUNCTION WHERE THE ACCESSIBLE ROUTE OF TRAVEL DIVERGES FROM THE REGULAR CIRCULATION PATH ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL, ENTRANCE, OR FACILITY, THERE SHALL BE A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.

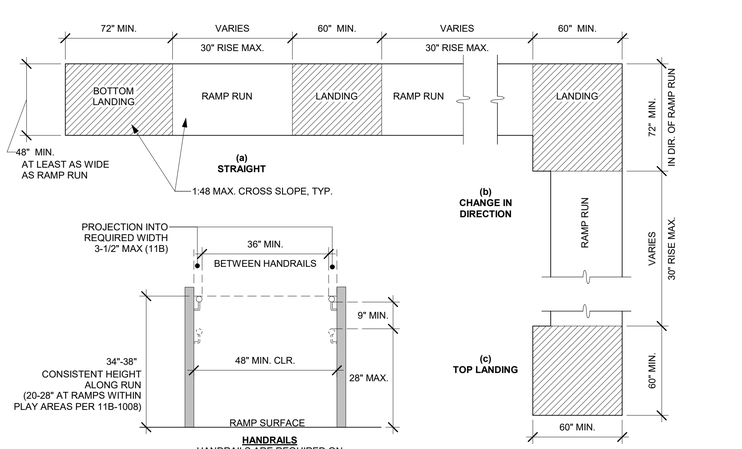
REF: CBC 11B-216.6

43 ACC. BLDG. ENTRY SIGNAGE
AS-901 SCALE: 3" = 1'-0"

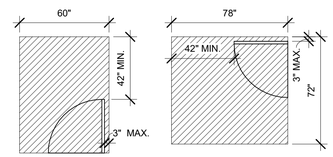


NOTE:
1. WELD ALL CONNECTIONS SMOOTH WITH CONTINOUS WELDS
2. SEE CONSTRUCTION PLAN ON AS-101 FOR HANDRAIL LAYOUT
3. PROVIDE EXPANSION JOINTS AT RUNS GREATER THAN 30'-0"

44 RAMP HAND RAIL
AS-901 AS-901 SCALE: 1/2" = 1'-0"



HANDRAILS
HANDRAILS ARE REQUIRED ON BOTH SIDES OF RAMPS WITH A RISE GREATER THAN 6"



RAMP LANDING AT DOORWAY
DOOR MANEUVERING CLEARANCES REQUIRED BY 11B-404.2.4 AND 11B-404.3.2 SHALL BE PERMITTED TO OVERLAP THE REQUIRED LANDING AREA.
DOORS, WHEN FULLY OPEN, SHALL NOT REDUCE LANDING WIDTH BY MORE THAN 3"
DOORS, IN ANY POSITION, SHALL NOT REDUCE THE MINIMUM DIMENSION OF THE RAMP LANDING TO LESS THAN 42"

REF: CBC 11B-405

24 ACCESSIBLE RAMP DETAILS
AS-901 SCALE: 1/4" = 1'-0"

ACC-SITE-16_V1_V0

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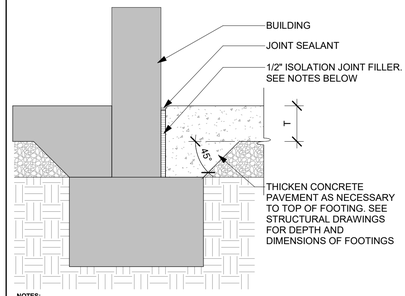
ARCHITECTURAL SITE DETAILS - ACCESSIBILITY

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DRAWN BY: DK
CHECKED BY: KF
DATE: APRIL 23, 2026
PROJECT NUMBER: 0822-03-ED25
SHEET: AS-901

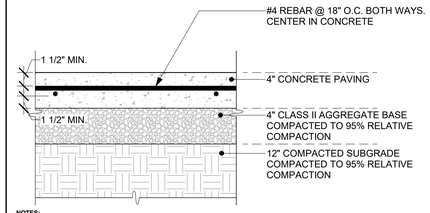
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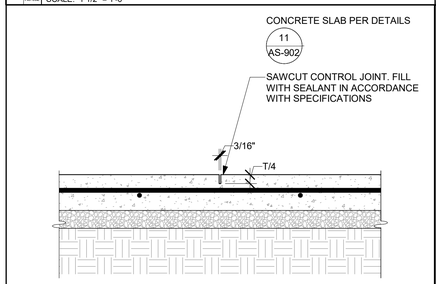
NOTES:
1. ISOLATION JOINT FILLER SHALL MEET THE REQUIREMENTS OF ASTM D1751, ASPHALT-SATURATED CELLULOSIC FIBER IN PRE-FORMED STRIPS.
2. EXTEND JOINT FILLERS FULL WIDTH AND DEPTH OF JOINT.
3. TERMINATE JOINT FILLER WITH SEALANT
4. INSTALL ISOLATION JOINTS AT ALL LOCATIONS WHERE EXTERIOR CONCRETE PAVEMENT ABUTS BUILDING CONCRETE.

21 ISOLATION JOINT AT BUILDING
AS-902 SCALE: 1 1/2" = 1'-0"



NOTES:
1. CONCRETE PAVEMENT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS. 4" MAX SLUMP. REFER TO PROJECT SPECIFICATIONS
2. MAXIMUM WATER/CEMENT RATIO SHALL BE 0.50
3. JOINT SPACING AND CONSTRUCTION AS NOTED ON PLANS

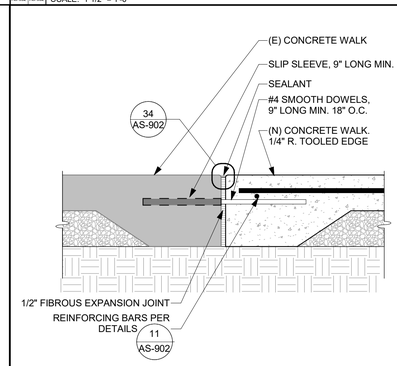
11 CONCRETE PAVING - PEDESTRIAN
AS-902 AS-902 SCALE: 1 1/2" = 1'-0"



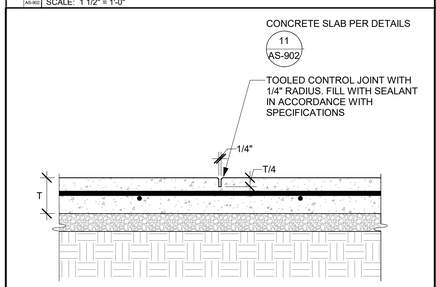
NOTES:
1. CONTROL JOINTS TO BE PROVIDED IN ALL SITE FLATWORK AND WALKWAYS AT APPROX. 5' O.C. EACH WAY AND AT ALL EQUIPMENT PAD CORNERS
2. MATCH EXISTING CONTROL JOINT LOCATIONS WEHRE THEY OCCUR.
3. SEE SITE PLAN FOR LAYOUT IF NOT INDICATED, AT ARCHITECT'S DISCRETION.

NOTE:
SOIL UNDER NON-STRUCTURAL FLATWORK & REBAR EXEMPT FROM SPECIAL INSPECTION OR TESTING

22 CONTROL JOINT - SAWCUT
AS-902 SCALE: 1 1/2" = 1'-0"



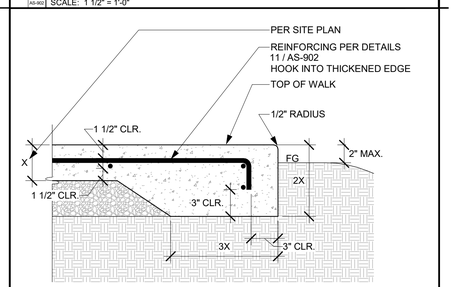
12 CONC. TO (E) CONC.
AS-902 SCALE: 1 1/2" = 1'-0"



NOTES:
1. CONTROL JOINTS TO BE PROVIDED IN ALL SITE FLATWORK AND WALKWAYS AT APPROX. 5' O.C. EACH WAY AND AT ALL EQUIPMENT PAD CORNERS
2. MATCH EXISTING CONTROL JOINT LOCATIONS WEHRE THEY OCCUR.
3. SEE SITE PLAN FOR LAYOUT IF NOT INDICATED, AT ARCHITECT'S DISCRETION.

NOTE:
SOIL UNDER NON-STRUCTURAL FLATWORK & REBAR EXEMPT FROM SPECIAL INSPECTION OR TESTING

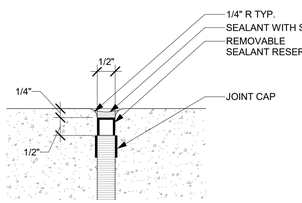
23 CONTROL JOINT - TOOLED
AS-902 SCALE: 1 1/2" = 1'-0"



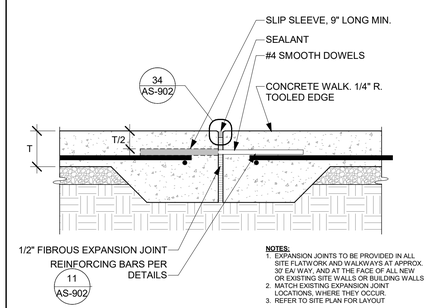
NOTES:
1. THICKENED EDGE ON ALL SIDES OF PAVEMENT UNLESS NOTED OTHERWISE
2. FORM ALL SIDES OF CONCRETE
3. APPLY BROOM FINISH TRANSVERSE TO THE PATH OF TRAVEL.
   A. MEDIUM BROOM WHERE WALK SLOPE IS 5% OR LESS
   B. HEAVY BROOM WHERE SLOPE IS GREATER THAN 5%
4. GEOTECHNICAL ENGINEER SHALL REVIEW AND APPROVE SUBGRADE BEFORE PLACING FORMS AND REBAR

NOTE:
SOIL UNDER NON-STRUCTURAL FLATWORK & REBAR EXEMPT FROM SPECIAL INSPECTION OR TESTING

13 WALKWAY EDGE
AS-902 SCALE: 1 1/2" = 1'-0"



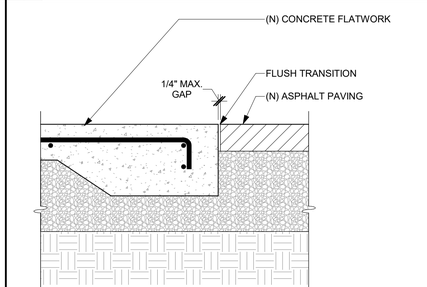
34 EXPANSION JOINT SEAL
AS-902 AS-902 SCALE: 6" = 1'-0"



NOTES:
1. EXPANSION JOINTS TO BE PROVIDED IN ALL SITE FLATWORK AND WALKWAYS AT APPROX. 30' EA/ WAY, AND AT THE FACE OF ALL NEW OR EXISTING SITE WALLS OR BUILDING WALLS
2. MATCH EXISTING EXPANSION JOINT LOCATIONS, WHERE THEY OCCUR.
3. REFER TO SITE PLAN FOR LAYOUT

NOTE:
SOIL UNDER NON-STRUCTURAL FLATWORK & REBAR EXEMPT FROM SPECIAL INSPECTION OR TESTING

24 EXPANSION JOINT
AS-902 SCALE: 1 1/2" = 1'-0"



ALL CHANGES IN LEVEL ON ACCESSIBLE PATH OF TRAVEL ROUTES SHALL COMPLY WITH CBC 11B-303. REFER TO DETAIL: 33 / A-901

NOTE:
SOIL UNDER NON-STRUCTURAL FLATWORK & REBAR EXEMPT FROM SPECIAL INSPECTION OR TESTING

14 AC PAVING AT WALK
AS-902 SCALE: 1 1/2" = 1'-0"

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CONSULTANT

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ARCHITECTURAL SITE DETAILS - PAVING

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KH

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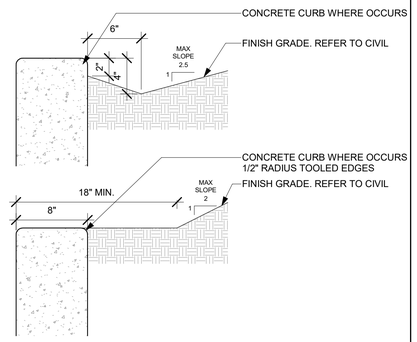
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PROJECT NUMBER
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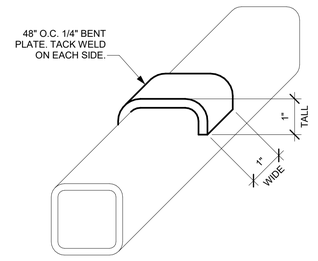
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31 LANDSCAPE AT CURB

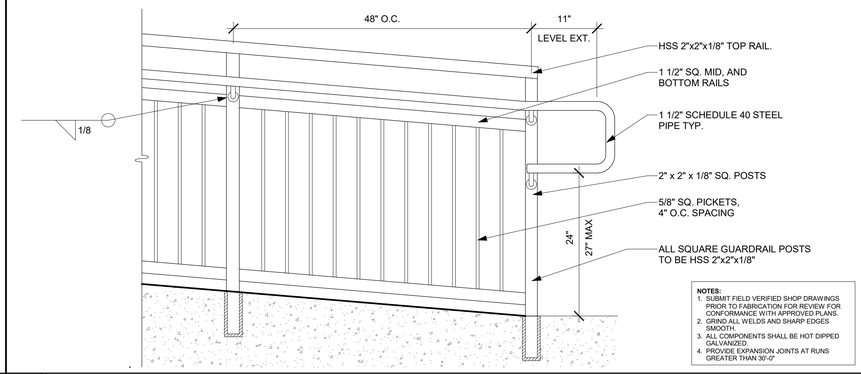
AS-903 SCALE: 1 1/2" = 1'-0"



ANTI-SKATE AT STAIR RAILING

32 ANTI-SKATE PLATE

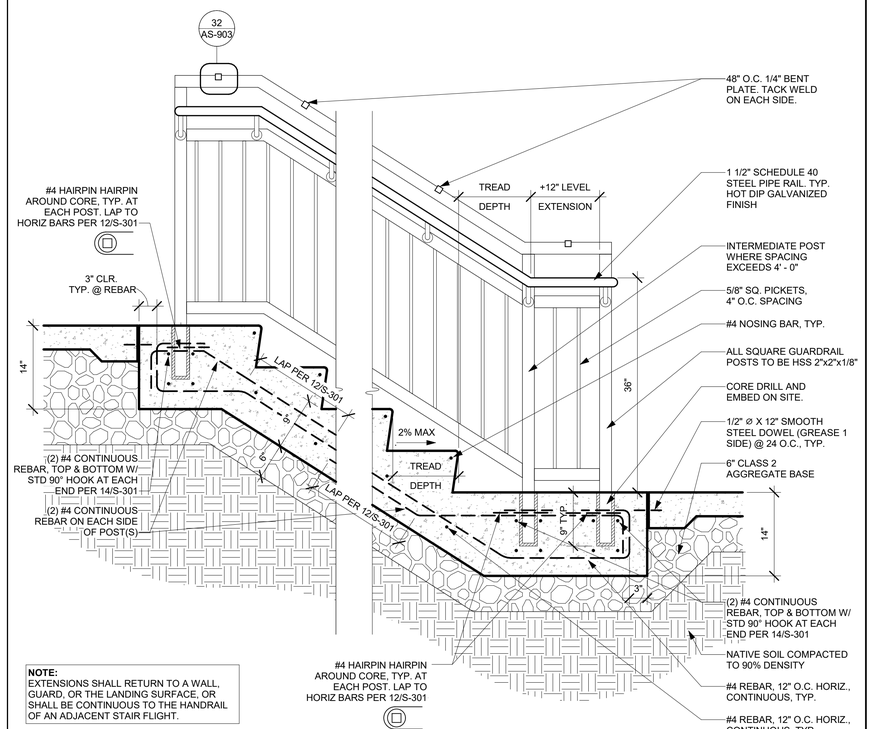
AS-903 AS-903 SCALE: 6" = 1'-0"



NOTES:
1. SUBMIT FIELD VERIFIED SHOP DRAWINGS PRIOR TO FABRICATION FOR REVIEW FOR CONFORMANCE WITH APPROVED PLANS.
2. GRIND ALL WELDS AND SHARP EDGES SMOOTH.
3. ALL COMPONENTS SHALL BE HOT DIPPED GALVANIZED.
4. PROVIDE EXPANSION JOINTS AT RUNS GREATER THAN 30'-0"

22 GUARDRAIL ELEVATION

AS-903 AS-903 SCALE: 1" = 1'-0"

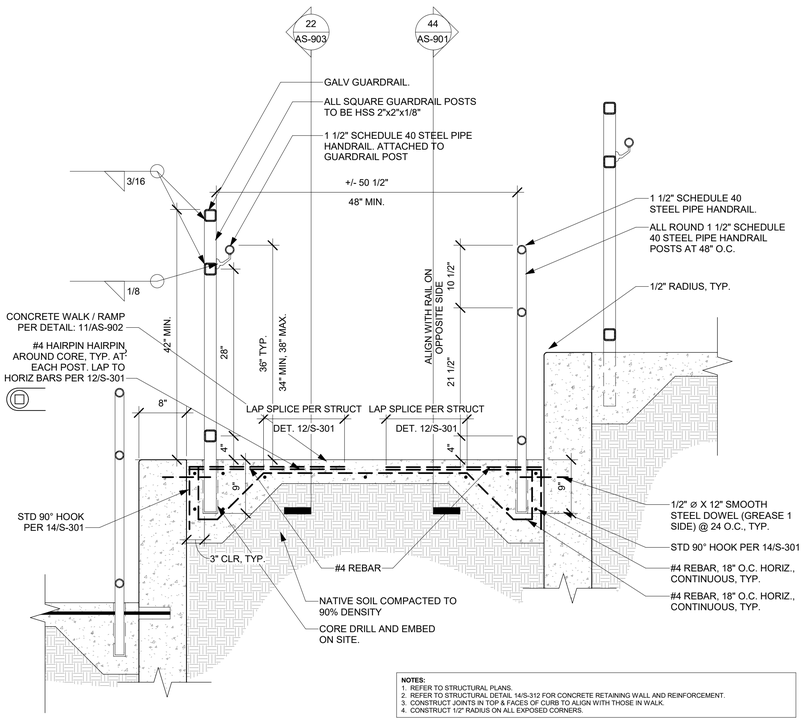


NOTE:
EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.

REF: CBC 11B-505.10

44 STAIR SECTION

AS-101 AS-903 SCALE: 1" = 1'-0"



NOTES:
1. REFER TO STRUCTURAL PLANS.
2. REFER TO STRUCTURAL DETAIL 14/S-312 FOR CONCRETE RETAINING WALL AND REINFORCEMENT.
3. CONSTRUCT JOINTS IN TOP & FACES OF CURB TO ALIGN WITH THOSE IN WALK.
4. CONSTRUCT 1/2" RADIUS ON ALL EXPOSED CORNERS.

24 RAMP SECTION

AS-101 AS-903 SCALE: 1" = 1'-0"

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ARCHITECTURAL SITE DETAILS - RAMP & STAIRS

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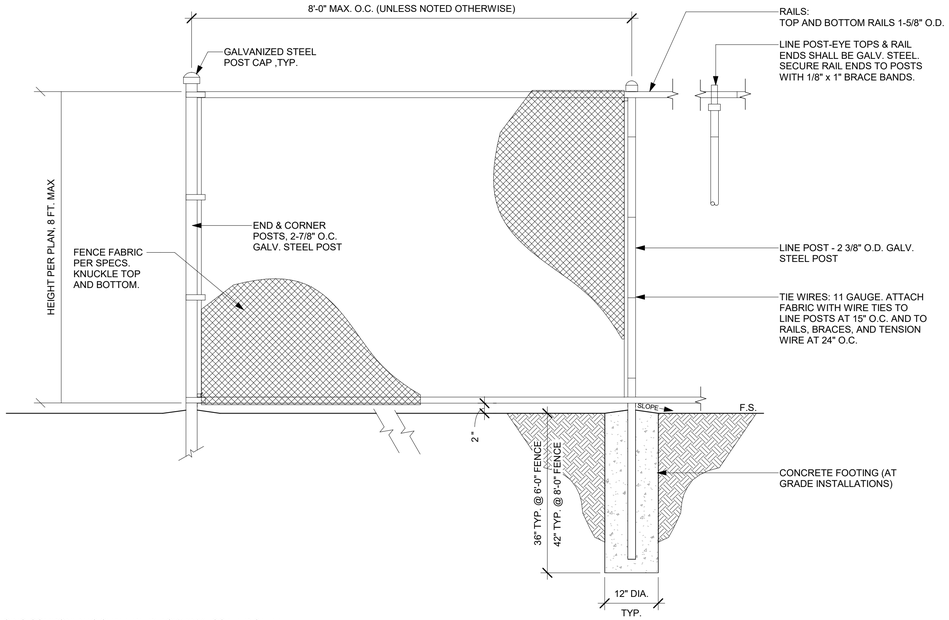
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AS-903

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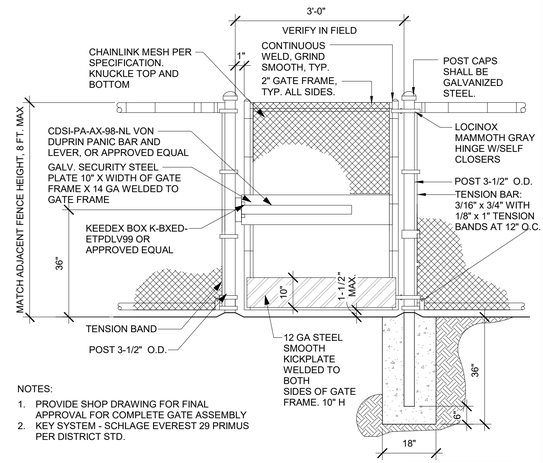
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NOTES:
1. ALL FENCING COMPONENTS SHALL BE BLACK VINYL COATED STEEL.
2. CHAINLINK TO BE 1" NO CLIMB TYP. AT ALL DETAILS
3. NO SLATS, SIGNS, OR OTHER COVERINGS SHALL BE ADDED TO FENCING.

NOTE: NOT FOR DSA REVIEW PER IR A-22

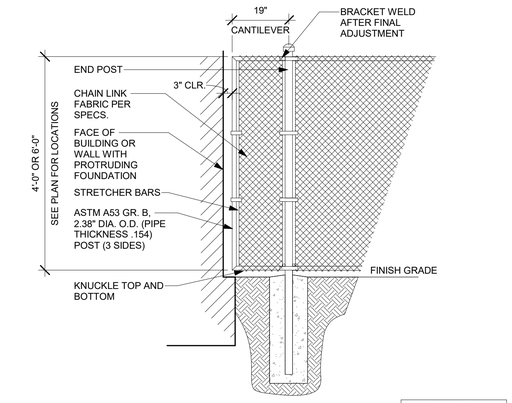
3 CHAIN LINK FENCE
AS-904 SCALE: 1/2" = 1'-0"



NOTES:
1. PROVIDE SHOP DRAWING FOR FINAL APPROVAL FOR COMPLETE GATE ASSEMBLY
2. KEY SYSTEM - SCHLAGE EVEREST 29 PRIMUS PER DISTRICT STD.

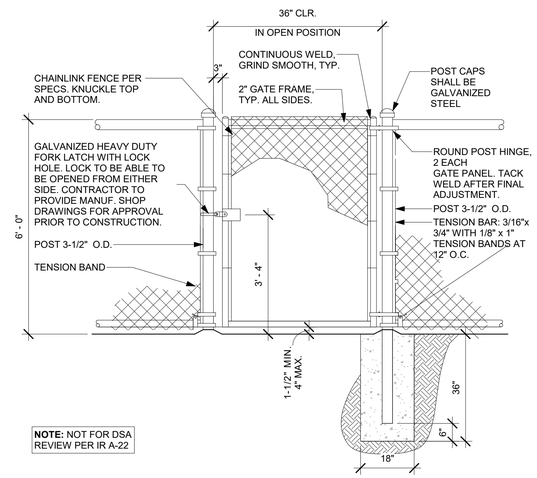
NOTE: NOT FOR DSA REVIEW PER IR A-22

1 ACC. SINGLE GATE W/ PANIC BAR
AS-904 SCALE: 1/2" = 1'-0"



NOTE: NOT FOR DSA REVIEW PER IR A-22

2 CHAIN LINK FENCE AT BLDG.
AS-904 SCALE: 1/2" = 1'-0"



NOTE: NOT FOR DSA REVIEW PER IR A-22

4 CHAINLINK GATE- MAINTENANCE AREA ONLY
AS-904 SCALE: 1/2" = 1'-0"

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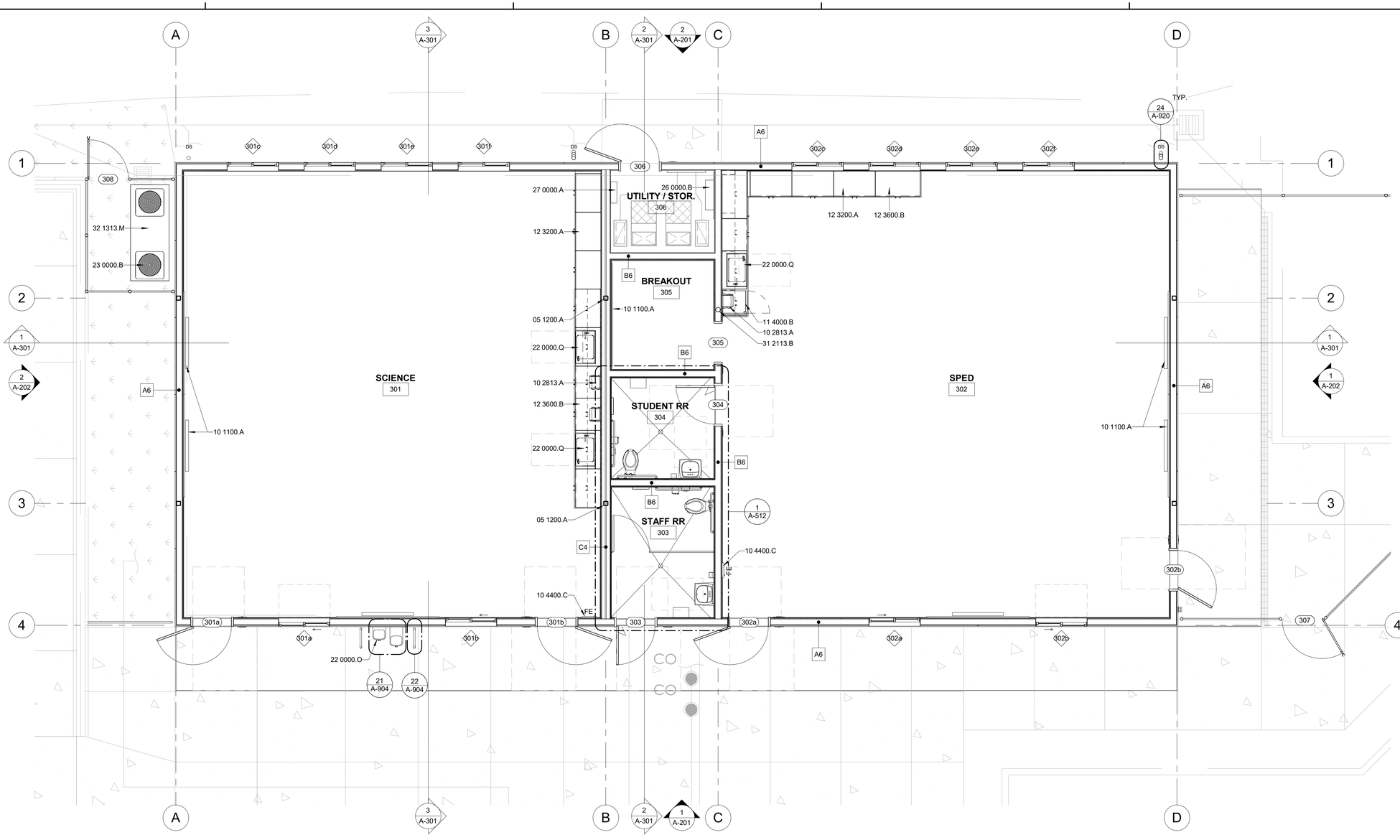
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ARCHITECTURAL SITE DETAILS - CHAIN LINK FENCES/GATES

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PROJECT NUMBER 0822-03-ED25
SHEET AS-904

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1 FLOOR PLAN

A-201 | A-101 SCALE: 1/4" = 1'-0"

MISC. NOTES

FUNCTION OF SPACE	AREA	SF/OCCUPANT	OCCUPANT LOAD
EDUCATION:			
SCIENCE CLASSROOM	1,135 SF	@ 20 SF/OCC	57 OCCUPANTS
SPED CLASSROOM	1,217 SF	@ 20 SF/OCC	61 OCCUPANTS

ASSISTIVE LISTENING DEVICES

CBC SECTION 11B-219

1. PROVIDE PERSONAL RECEIVERS FOR **6** PEOPLE (4% OF TOTAL NUMBER OF SEATS) WITH HEARING IMPAIRMENTS, 3 PER ROOM.
2. **2** SYSTEMS ARE TO BE HEARING AID COMPATIBLE (25% OF SYSTEMS)
3. SYSTEM TO BE PORTABLE
4. SIGNAGE PER PLAN

KEYNOTES

05 1200.A	STEEL COLUMN. REFER TO STRUCTURAL DRAWINGS
10 1100.A	4' x 8' MARKERBOARD; CONTRACTOR PROVIDED. REFER TO DETAIL 22/A-942
10 2813.A	SURFACE MOUNTED PAPER TOWEL DISPENSER, OFCI
10 4400.C	SEMI-RECESSED FIRE EXTINGUISHER CABINET WITH EXTINGUISHER, 2A:10B:C RATING ; REFER TO 33/A-941
11 4000.B	REFRIGERATOR. OWNER FURNISHED.
12 3200.A	CASEWORK PER INTERIOR ELEVATIONS
12 3600.B	CHEMICAL RESISTANT COMPACT LAMINATE COUNTERTOP
22 0000.O	HI LOW DRINKING FOUNTAIN, REFER TO 21/A-904 DETAIL. SEE PLUMBING FIXTURE SCHEDULE ON SHEET P-001
22 0000.Q	SINK OR LAVATORY.REFER TO PLUMBING.
23 0000.B	MECHANICAL CONDENSER. REFER TO MECHANICAL
26 0000.B	ELECTRICAL PANELBOARD. REFER TO ELECTRICAL
27 0000.A	WALL-MOUNTED TV CABLE/DATA/POWER CONNECTION. REFER TO ELECTRICAL
31 2113.B	RADON VENT PIPE, REFER RADON PLAN.
32 1313.M	CONCRETE PAD FOR MECHANICAL EQUIPMENT. REFER TO STRUCTURAL DETAIL 34/S-302.

SYMBOL LEGEND

- A4 — **WALL TAG**
- RID — **SIGN TAG** REFER TO A-601 FOR SCHEDULE
- OL — **OCC. LOAD SIGN** AND A-601
- FE — **FIRE EXTINGUISHER** 2A:10B:C RATING - 5 POUND CAPACITY
- D — **DOOR TAG**
- W — **WINDOW TAG**
- REF. TO STRUCTURAL FOR SHEAR WALL EXTENTS
- ACCESSIBLE CLEARANCE

WALL TYPES LEGEND

NOTE: STRUCTURAL FRAMING PLANS TAKE PRECEDENCE.

NOTE: WHERE PLYWOOD SHEATHING IS PROVIDED ON INTERIOR WALLS, PER STRUCTURAL, CONTRACTOR TO PROVIDE SHEATHING FULL LENGTH OF WALL TO NEXT INSIDE CORNER FOR FLUSH & SMOOTH CONDITION OF INTERIOR FINISHES.

REFER TO SHEET A-911 FOR WALL TYPE ASSEMBLIES

TYPE A
A6 2X6 FRAMING EXTERIOR STUCCO WALL ASSEMBLY

TYPE B
B6 2X6 FRAMING

TYPE C
C4 2X4 FRAMING DOUBLE STUD w/ 1 INCH AIR GAP

FLOOR PLAN GENERAL NOTES

1. REFER TO GENERAL NOTES SHEET G-002 FOR ADDITIONAL REQUIREMENTS.
2. REFER TO SHEET A-911 FOR WALL TYPES
3. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.
4. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION IF PROVIDED.
5. REFER TO MECHANICAL PLANS, DRAWINGS OR REPORTS FOR FURTHER INFORMATION.
6. REFER TO PLUMBING PLANS OR DRAWINGS FOR FURTHER INFORMATION IF PROVIDED.
7. ALL DOOR LANDINGS SHALL BE SLOPED AWAY FROM THE THRESHOLD WITH CROSS SLOPE OF NOT MORE THAN 2% IN ALL DIRECTIONS.
8. EXTERIOR DIMENSIONS ARE TO FACE OF SHEATHING, CENTERLINE OF HSS COLUMNS; INTERIOR DIMENSIONS ARE TO FACE OF FRAMING, AND CLEAR DIMENSIONS ARE TO FACE OF FINISH, UNLESS OTHERWISE NOTED.
9. PROVIDE ADEQUATE BLOCKING IN WALLS FOR CABINETS AND OTHER WALL MOUNTED DEVICES INCLUDING BUT NOT LIMITED TO GRAB BARS, FIXTURES, AND ACCESSORIES.
10. PROVIDE FIREBLOCKING FOR WALL CAVITIES THAT EXCEED 2022 CBC HEIGHT LIMITATIONS
11. DOOR AND WINDOW DIMENSIONS ARE CENTERED AT OPENINGS
12. WHERE DOOR IS LOCATED WITHOUT DIMENSION AT THE CORNER OF A ROOM THE HINGE SIDE SHALL BE 6" FROM FACE OF FRAMING OF ADJACENT PERPENDICULAR WALL TO ROUGH DOOR OPENING, UNLESS OTHERWISE NOTED.
13. DRYWALL INSTALLED WITHIN 2'-0" OF DOOR OPENINGS SHALL BE MOISTURE RESISTANT.
14. WHERE RECESSED FIXTURES OCCUR IN WALLS OR HORIZONTAL ASSEMBLIES, THE FIRE RATING OF THOSE ASSEMBLIES SHALL BE MAINTAINED
15. AT ALL PENETRATIONS AND/OR CUT OUTS THROUGH DEMISING AND RESTROOM WALLS, ACOUSTICAL INSULATION SHALL BE PLACED TIGHTLY AROUND OPENINGS WITH SEALANT ALL AROUND.

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2555 S HALCYON RD, ARROYO GRANDE, CA

FLOOR PLAN

NO.	REVISION	DATE

PROJECT MANAGER KH

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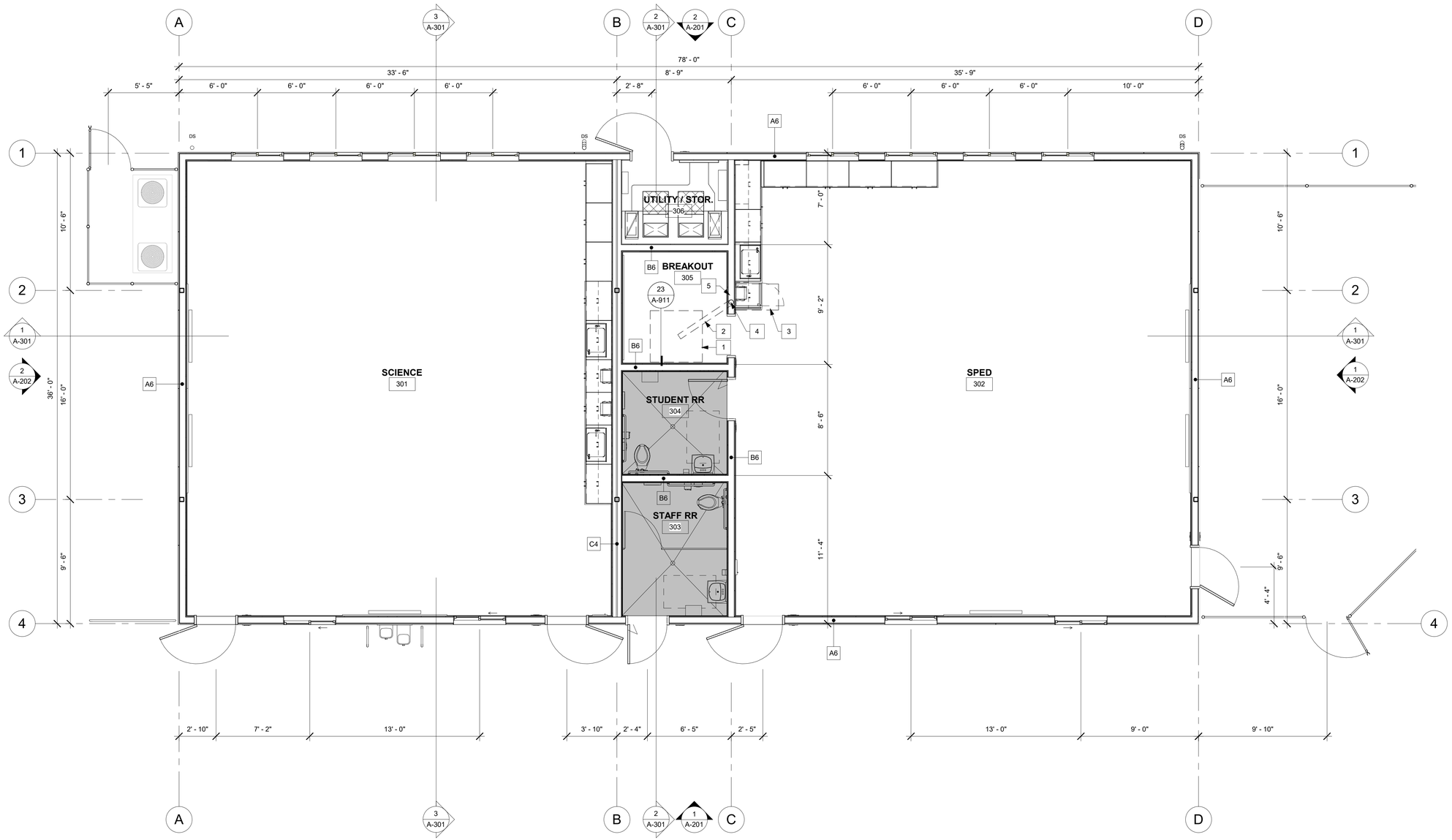
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1 DIMENSION PLAN

A-201 | A-102 SCALE: 1/4" = 1'-0"

RADON LEGEND

1. 48" x 48" x 8" DEEP RADON PIT IN AGGREGATE BASE
2. 6" SCHEDULE 40 SUB-SLAB RADON PIPE
3. 24" X 30" ACCESS PANEL IN CEILING FOR FUTURE FAN IF REQUIRED. PROVIDE OUTLET IN CEILING READILY ACCESSIBLE FROM ACCESS PANE.
4. PROVIDE PIPE SEAL AT ALL SLAB PENETRATIONS
5. 6" SCHEDULE 40 RADON VENT STACK PIPE. EXTEND 24" ABOVE ROOF AND PROVIDE "T" FITTING AT TOP TO PREVENT WATER INTRUSION. LABEL PIPE "RADON VENT PIPE" AT 10' INTERVALS. PROVIDE SPLIT RING RISER CLAMPS AT 4' - 0" O.C. UP HEIGHT OF WALL. AT ROOF CONTRACTOR TO PERMANENTLY AFFIX SIGN THAT READS "SOIL GAS VENT STACK MAY CONTAIN HIGH LEVELS OF RADON. DO NOT PLACE AIR INTAKE WITHIN 25'-0". PAINT TO MATCH ROOFING. PROVIDE SCREEN ON ENDS OF PIPE "T" FOR PEST CONTROL.

RADON MITIGATION NOTES

1. PROVIDE VAPOR BARRIER BELOW CONC. SLAB & OVER AG BASE PER SPECIFICATIONS. REFER TO DETAIL 23 / A-911 FOR ADDITIONAL INFORMATION.
2. PROVIDE GEOTEXTILE FABRIC BETWEEN AG BASE & SUBGRADE PER SPECIFICATIONS. REFER TO DETAIL 23 / A-911 FOR ADDITIONAL INFORMATION.

LEGEND

DEPRESSED SLAB
REFER TO STRUCTURAL

FLOOR DRAIN
SLOPE TO DRAIN. MAX SLOPE 1/4" PER 12"

WALL TYPES LEGEND

NOTE: STRUCTURAL FRAMING PLANS TAKE PRECEDENCE.

NOTE: WHERE PLYWOOD SHEATHING IS PROVIDED ON INTERIOR WALLS, PER STRUCTURAL, CONTRACTOR TO PROVIDE SHEATHING FULL LENGTH OF WALL TO NEXT INSIDE CORNER FOR FLUSH & SMOOTH CONDITION OF INTERIOR FINISHES.

REFER TO SHEET A-911 FOR WALL TYPE ASSEMBLIES

TYPE A
A6 2X6 FRAMING EXTERIOR STUCCO WALL ASSEMBLY

TYPE B
B6 2X6 FRAMING

TYPE C
C4 2X4 FRAMING DOUBLE STUD w/ 1 INCH AIR GAP

FLOOR PLAN GENERAL NOTES

1. REFER TO GENERAL NOTES SHEET G-002 FOR ADDITIONAL REQUIREMENTS.
2. REFER TO SHEET A-911 FOR WALL TYPES
3. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.
4. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION IF PROVIDED.
5. REFER TO MECHANICAL PLANS, DRAWINGS OR REPORTS FOR FURTHER INFORMATION.
6. REFER TO PLUMBING PLANS OR DRAWINGS FOR FURTHER INFORMATION IF PROVIDED.
7. ALL DOOR LANDINGS SHALL BE SLOPED AWAY FROM THE THRESHOLD WITH CROSS SLOPE OF NOT MORE THAN 2% IN ALL DIRECTIONS.
8. EXTERIOR DIMENSIONS ARE TO FACE OF SHEATHING, CENTERLINE OF HSS COLUMNS; INTERIOR DIMENSIONS ARE TO FACE OF FRAMING, AND CLEAR DIMENSIONS ARE TO FACE OF FINISH, UNLESS OTHERWISE NOTED.
9. PROVIDE ADEQUATE BLOCKING IN WALLS FOR CABINETS AND OTHER WALL MOUNTED DEVICES INCLUDING BUT NOT LIMITED TO GRAB BARS, FIXTURES, AND ACCESSORIES.
10. PROVIDE FIREBLOCKING FOR WALL CAVITIES THAT EXCEED 2022 CBC HEIGHT LIMITATIONS
11. DOOR AND WINDOW DIMENSIONS ARE CENTERED AT OPENINGS
12. WHERE DOOR IS LOCATED WITHOUT DIMENSION AT THE CORNER OF A ROOM THE HINGE SIDE SHALL BE 6" FROM FACE OF FRAMING OF ADJACENT PERPENDICULAR WALL TO ROUGH DOOR OPENING, UNLESS OTHERWISE NOTED.
13. DRYWALL INSTALLED WITHIN 2'-0" OF DOOR OPENINGS SHALL BE MOISTURE RESISTANT.
14. WHERE RECESSED FIXTURES OCCUR IN WALLS OR HORIZONTAL ASSEMBLIES, THE FIRE RATING OF THOSE ASSEMBLIES SHALL BE MAINTAINED
15. AT ALL PENETRATIONS AND/OR CUT OUTS THROUGH DEMISING AND RESTROOM WALLS, ACOUSTICAL INSULATION SHALL BE PLACED TIGHTLY AROUND OPENINGS WITH SEALANT ALL AROUND.

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DIMENSION & RADON PLAN

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ROOM FINISH SCHEDULE

NO.	NAME	FLOOR	WALL			CEILINGS		NOTES
			BASE	SUBSTRATE	FINISH	MATERIAL	FINISH	
301	SCIENCE	PC	RB	GWB	PT / VTP	ACT	PRE	SEE INTERIOR ELEVATIONS
302	SPED	CPT / LVT	RB	GWB	PT / VTP	ACT	PRE	SEE INTERIOR ELEVATIONS
303	STAFF RR	CT	CT	GWB / CB	CT	GWB	PT	SEE INTERIOR ELEVATIONS
304	STUDENT RR	CT	CT	GWB / CB	CT	GWB	PT	SEE INTERIOR ELEVATIONS
305	BREAKOUT	CPT	RB	GWB / PLY	PT / PLY	ACT	PRE	SEE INTERIOR ELEVATIONS
306	UTILITY / STOR.	CONC	RB	GWB	PT	GWB	PT	

FINISH LEGEND

CPT 1 — MATERIAL TAG
REFER TO MATERIAL SCHEDULE FOR MORE INFORMATION

FLOORS

CPT 1 | LVT 1 | CFT 1 | PC

WALLS

CT 1 | CT 2 | CT 3 | CT 4 | PLY 1 | VTP 1 | IPT 1

ABBREVIATIONS

BASE		
BASE	CT	CERAMIC TILE, 6" COVED UNGLAZED FINISH.
BASE	RB	RUBBER BASE
CEILING		
CEILING	ACT	ACOUSTIC CEILING TILE
CEILING	GWB	GYPSUM BOARD, PAINT FINISH.
CEILING	OPEN	OPEN TO ABOVE
FINISH		
FINISH	FRP	FIBER REINFORCED PANEL
FINISH	PLY	FINISH GRADE ARCHITECTURAL PLYWOOD
FINISH	PRE	MANUFACTURER FINISHED
FINISH	PT	PAINT
FINISH	VTP	VINYL TACKABLE PANEL
FLOORS		
FLOORS	CONC	EXPOSED CONCRETE, CLEAR SEAL FINISH.
FLOORS	CPT	CARPET TILES, TRANSITION STRIPS AT EXPOSED EDGES.
FLOORS	CT	CERAMIC TILE
FLOORS	LVT	LUXURY VINYL TILE
FLOORS	PC	POLISHED CONCRETE
FLOORS	PCT	PORCELAIN TILE
SUBSTRATE		
SUBSTRATE	CB	CEMENT BOARD
SUBSTRATE	GWB	GYPSUM BOARD

FINISH REQUIREMENTS

PER ***2022 CBC 803.13*** INTERIOR WALL AND CEILING FINISH SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN THAT SPECIFIED IN TABLE 803.13 FOR THE GROUP AND LOCATION DESIGNATED. REFER TO ***2022 CBC SEC. 803*** FOR ADDITIONAL INFORMATION.

INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY
(CBC 2022 TABLE 803.13)

DEGREE OF FIRE PROTECTION: NON SPRINKLERED

GROUP	INTERIOR EXIT STAIRWAYS AND RAMPS AND EXIT PASSAGEWAYS	CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMPS	ROOMS AND ENCLOSED SPACES
A-1 & A-2	B	B	C
A-3,A-4,A-5	B	B	C
B,E,M,R-1	B	C	C
R-2	C	C	C
R-2.1	B	C	C
R-2.2	C	C	C
R-3, R-3.1	C	C	C
S	C	C	C

CLASSIFICATIONS

CLASS A:
- FLAME SPREAD INDEX = 0-25
- SMOKE DEVELOPED INDEX = 0-450

CLASS B:
- FLAME SPREAD INDEX = 26-75
- SMOKE DEVELOPED INDEX = 0-450

CLASS C:
- FLAME SPREAD INDEX = 76-200
- SMOKE DEVELOPED INDEX = 0-450

ROOM SIGNAGE LEGEND

NOTE: REFER TO SHEET A-601 FOR SIGNAGE DETAILS.

AS	ASSISTIVE LISTENING
OL	MAXIMUM OCCUPANT LOAD
RID	ROOM IDENTIFICATION
RRD	RESTROOM DOOR SYMBOL
RRW	RESTROOM WALL SIGN
X	EXIT SIGN

MATERIALS SCHEDULE

Tag	Description	Application	Manufacturer	Pattern/Texture	Color	Other
PAINT						
XPT1	Exterior Paint	Field Color	Sherwin Williams	Satin	Sawyer's Fence SM 30719	
XPT2	Exterior Paint	Accent Color/Trim	Sherwin Williams	Satin	Roman Blue	
	Exterior Paint	Doors/Frames	Sherwin Williams	Semi-Gloss	Roman Blue	
PT1	Interior Paint	Wall and Ceilings	Sherwin Williams	Eggshell	White Shadow	
		CR and RR	Sherwin Williams	Semi-Gloss	White Shadow	
		Interior Door Frames	Sherwin Williams	Semi-Gloss	White Shadow	
PT2	Interior Paint	Door Frames	Sherwin Williams	Semi-Gloss	Roman Blue	
FLOORS						
CPT1	Carpet Tile	Classrooms	Mannington Commercial	Collection: Exchange 2 - Dispatch	Haptics 13143	Adhesive: Nexterra
CFT 1	Ceramic Tile	Floor	Dal Tile	2x2 Keystones	Desert Gray Speckle D200	
LVT1	Luxury Vinyl Tile	Classrooms	Shaw Contract	In Unison 2.5	Smoky Oak 91516	
RB1	Rubber Base	All rooms with CPT and...	Flexco	Base 2000: Topset	Midnight Blue 099	
PC1	Polished Concrete	Floor				
WALL GUARDS						
VTP1	Vinyl Tackable Panel	Classrooms	Chatfield-Clark	Type 1 Group 1	Beige	
CT 1	Ceramic Tile	Wall - Field Color	Daltile	4" Colorwheel Classic	White 0100	
CT 2	Ceramic Tile	Wall - Field Color	Daltile	6" Cove Base	White 0100	
CT 3	Ceramic Tile	Wall - Accent	Daltile	4" Colorwheel Classic	Waterfall 0169	
CT 4	Ceramic Tile	Wall - Accent	Daltile	4" Colorwheel Classic	Galaxy 1469	
GT 1	Grout	Walls/Floors	Custom		Natural Gray 09	
PLY	Architectural Grade Plywood	Walls	N/A	Paint	White Shadow	
CASEWORK						
PL1	Plastic Laminate	Cabinet Face	Wilsonart	38 Fine Velvet Texture	Huntington Maple 7929-38	
PL2	Plastic Laminate	Countertop	Wilsonart	60 Matte	Natural Tigris 4669-60	
DOORS						
DR 1	Interior Door	Veneer	Masonite Aspiro	Aspiro	Huntington Maple 7929-38	

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FINISH & SIGNAGE PLAN

NO.	REVISION	DATE

PROJECT MANAGER
KH

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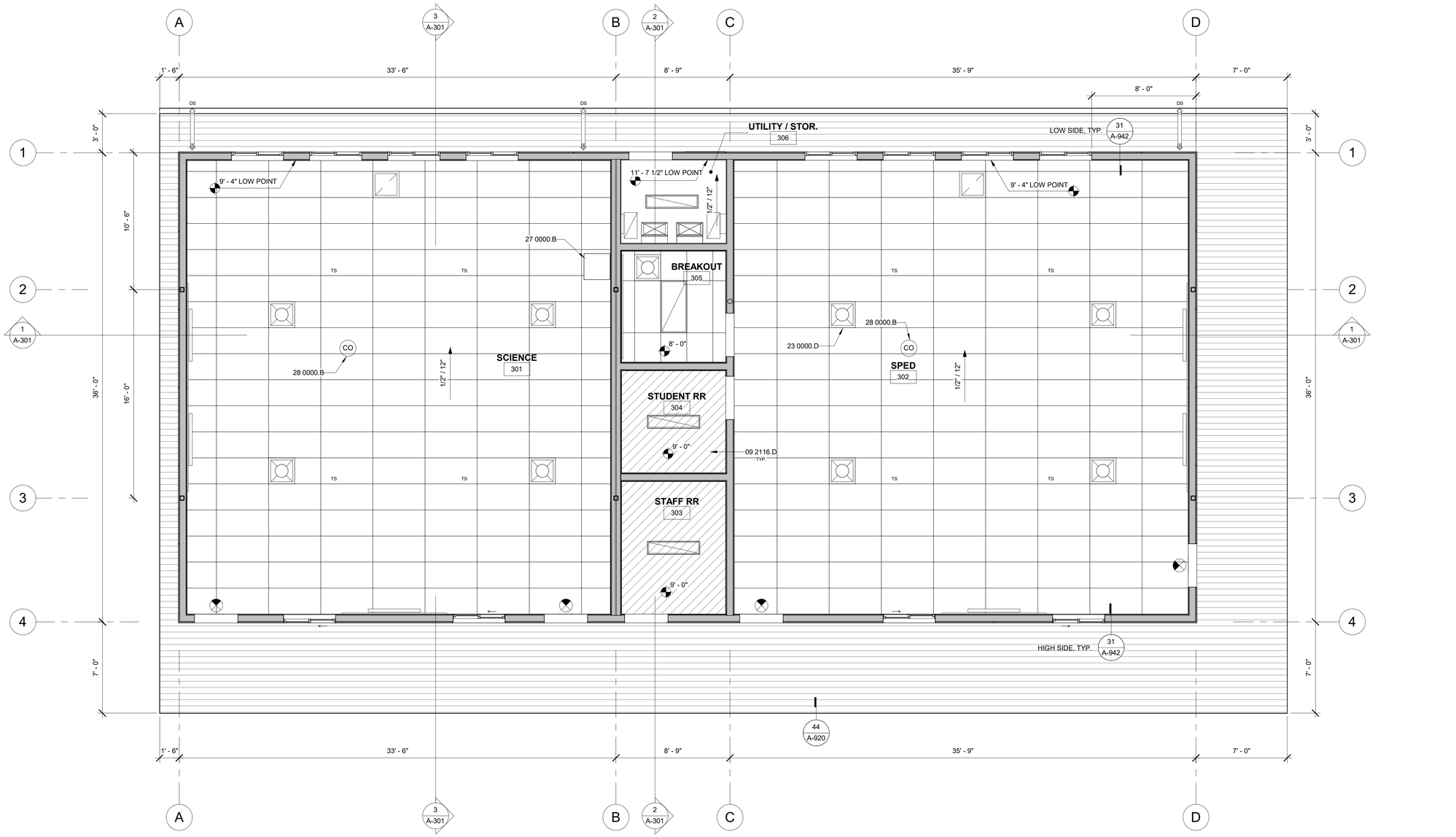
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1 REFLECTED CEILING PLAN

A-201 | A-111 SCALE: 1/4" = 1'-0"

KEYNOTES

09 2116.D	GYPSUM BOARD DROP CEILING.
23 0000.D	MECHANICAL REGISTER
27 0000.B	WALL MOUNTED IDF CABINET, REFER TO ELECTRICAL
28 0000.B	CARBON MONOXIDE DETECTOR

LEGEND

- XX'-X" — CEILING HEIGHT (SEE PLAN FOR ACTUAL HEIGHTS)
- INTERIOR - MOISTURE RESISTANT GYPSUM BOARD CEILING REFER TO 33/S-501 FOR CEILING FRAMING DETAILS
- INTERIOR - ACOUSTICAL TILE CEILING REFER TO SHEETS A-954 - A-957
- FIBER CEMENT SOFFIT PANEL REFER TO SUPPORTING DOCUMENT ICC REPORT ESR-2273 TABLE 5, LINE 2 REF. TO: 44 / A-920
- GYPSUM WALLBOARD DIRECT APPLIED TO STRUCTURE ABOVE
- CO — CARBON MONOXIDE ALARM
- ILLUMINATED EXIT SIGN, ARROW INDICATES DIRECTIONAL CHEVRON REFER TO INTERIOR ELEVATIONS AND RCP FOR MOUNTING LOCATION
- MECHANICAL REGISTERS, REFER TO MECHANICAL PLANS
- LIGHT FIXTURE, REFER TO ELECTRICAL PLANS
- TS — TUBULAR SKYLIGHT

RCP GENERAL NOTES

1. REFER TO GENERAL NOTES SHEET G-002 FOR ADDITIONAL REQUIREMENTS.
2. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION.
3. REFER TO MECHANICAL PLANS FOR FURTHER INFORMATION.
4. REFER TO DETAILS FOR FLOOR/CEILING ASSEMBLIES.
5. HEIGHT OF CEILINGS SHALL BE MEASURED FROM TOP OF SLAB TO FINISH FACE OF GWB OR FACE OF CEILING GRID AS INDICATED ON THE REFLECTED CEILING PLAN, UNO.
6. BORDERS AT LAY-IN ACOUSTICAL CEILING PANELS SHALL BE CUT TO MATCH FACTORY EDGE PROFILE. NO EXPOSED FASTENERS SHALL BE PERMITTED INCLUDING POP RIVETS AND TAPPETS.
7. CONTRACTOR TO VERIFY DEPTH OF SOFFITS AND HOLD TIGHT TO PLUMBING, SPRINKLERS, ELECTRICAL AND MECHANICAL DUCTS
8. SEE MECHANICAL DRAWINGS FOR MECH. ACCESS PANELS. PAINT TO MATCH CEILING
9. AT DROPPED GWB SOFFITS/GWB BEAMS, PROVIDE C-STUDS AS VERTICAL SUPPORTS AT EACH SIDE OF THE SOFFIT/BEAM AND DIAGONAL BRACING FOR WRACKING. IF CEILING JOIST SPACING DIFFERS FROM FLOOR THEN BLOCKING BETWEEN THE FLOOR FRAMING MAY BE UTILIZED TO ATTACH THE VERTICAL STRUTS
10. ALL LIGHT FIXTURES ARE TO BE INSTALLED ACCORDING TO THE ARCHITECTURAL REFLECTED CEILING PLAN. ARCHITECT TO REVIEW CEILING LAYOUT INCLUDING BULKHEADS AND GRID PRIOR TO INSTALLATION.
11. LIGHT FIXTURES SHALL BE CENTERED WITHIN SPACES AND/OR WINDOW EVENLY ARRAYED. IF CONFLICTS OCCUR AT MECHANICAL REGISTERS OR SPRINKLER HEADS, LIGHTING LOCATIONS SHALL TAKE PRECEDENCE. CONSULT ARCHITECT AS NEEDED TO RESOLVE.
12. SEE ELECTRICAL PLANS FOR LIGHTING SPECIFICATIONS, AND EXIT LIGHT LOCATIONS.

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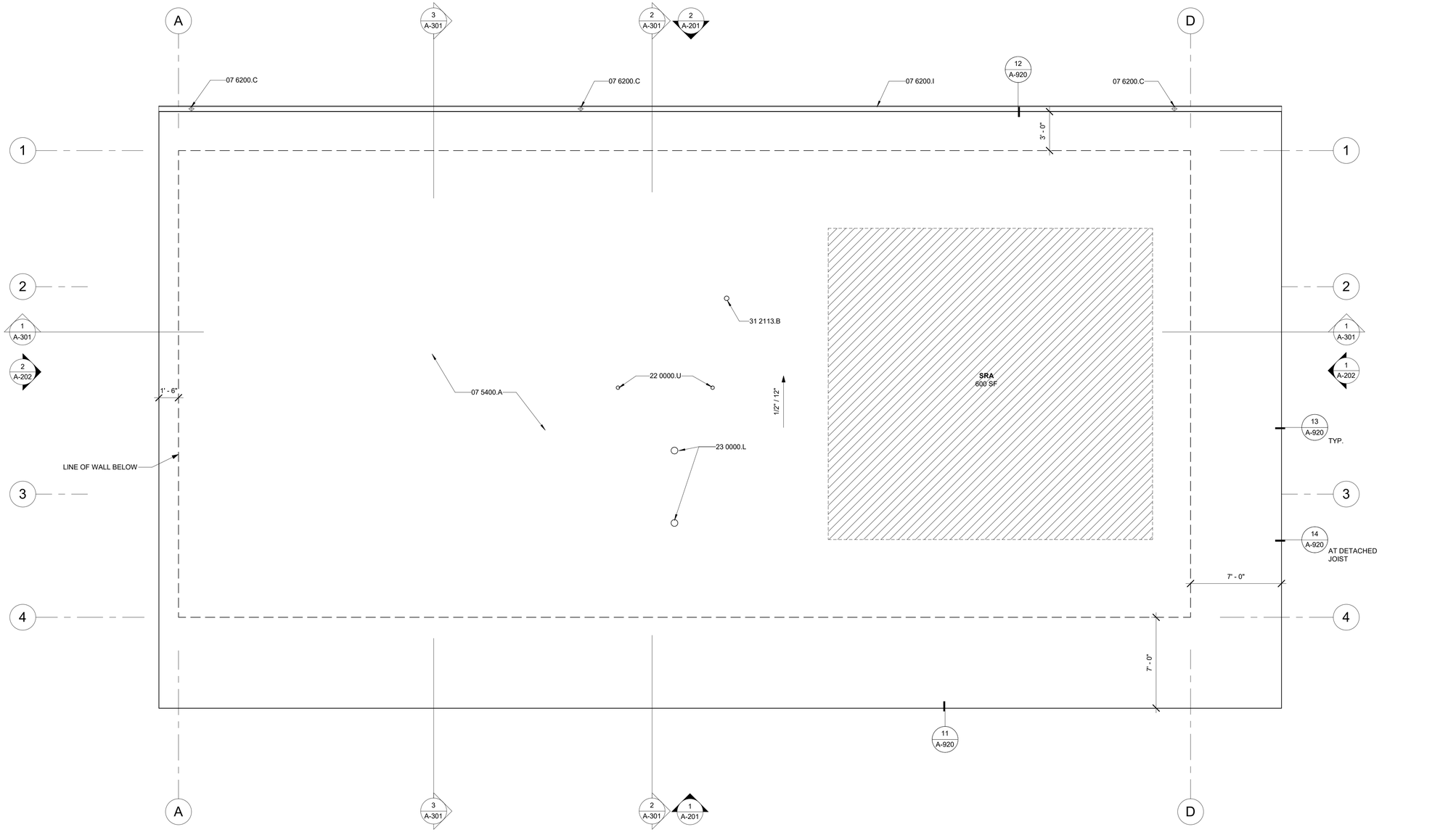
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DATE: APRIL 23, 2026
PROJECT NUMBER: 0822-03-ED25
SHEET: A-111

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1 01-ROOF PLAN

A-201 | A-121 SCALE: 1/4" = 1'-0"

SOLAR READY AREA

TOTAL ROOF AREA = 3,961 SF
TOTAL SKYLIGHT AREA = 5.22 SF X 8 = 42 SF

MINIMUM SOLAR READY AREA = 15% X (3,961 SF - 42 SF) = **588 SF**

SOLAR READY AREA = 600 SF

600 SF > 588 SF - OK

NOTE: NO SOLAR IS PROPOSED AS PART OF THIS PROJECT. ANY FUTURE P.V. INSTALLATION SHALL BE SUBMITTED TO AND APPROVED BY DSA UNDER A SEPARATE APPLICATION NUMBER.

FUTURE SOLAR PANEL LOAD ALLOWANCE: 4.0 PSF

KEYNOTES

07 5400.A	LOW SLOPE MEMBRANE ROOFING SYSTEM
07 6200.C	DOWNSPOUT. REFER TO DETAIL 24/A-920 FOR ATTACHMENT AT STUCCO.
07 6200.I	GUTTER
22 0000.U	PLUMBING VENT, REFER TO PLUMBING
23 0000.L	6" EXHAUST FAN VENT
31 2113.B	RADON VENT PIPE, REFER RADON PLAN.

LEGEND

2" / 12" ROOF SLOPE (REFER TO PLANS FOR ACTUAL SLOPE)

WALL BELOW

GUTTER, CONNECT TO DOWNSPOUT

TUBULAR SKYLIGHT

FUTURE SOLAR READY AREA

NOTE: NO SOLAR IS PROPOSED AS PART OF THIS PROJECT. ANY FUTURE P.V. INSTALLATION SHALL BE SUBMITTED TO AND APPROVED BY DSA UNDER A SEPARATE APPLICATION NUMBER.

WUI REQUIREMENTS

1. ROOF COVERING SHALL COMPLY WITH ***2022 CBC 705A.2*** UNDERLAYMENT SHALL BE ONE LAYER OF MINIMUM 72 POUND MINERAL-SURFACED NONPERFORATED CAP SHEET COMPLYING WITH ASTM D3909 INSTALLED OVER THE COMBUSTIBLE DECKING.
2. ROOF GUTTERS SHALL COMPLY WITH ***2022 CBC 705A.4***. ROOF GUTTERS SHALL BE PROVIDE WITH THE MEANS TO PREVENT THE ACCUMULATION OF LEAVES AND DEBRIS IN THE GUTTER
3. VENTILATION OPENINGS SHALL COMPLY WITH ***2022 CBC 706A*** - VENTILATION OPENINGS FOR ENCLOSED ATTICS, ENCLOSED EAVE SOFFIT SPACES, ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS, AND UNDERFLOOR VENTILATION OPENINGS SHALL BE FULLY COVERED WITH METAL WIRE MESH, VENTS, OTHER MATERIALS, OR OTHER DEVICES. REFER TO ***SECTIONS 706A.1*** THROUGH ***706A.3*** FOR ADDITIONAL INFORMATION.
4. EXTERIOR COVERINGS SHALL COMPLY WITH ***2022 CBC 707A*** EXTERIOR WALL COVERINGS OR WALL ASSEMBLIES SHALL COMPLY WITH ONE OF THE FOLLOWING REQUIREMENTS: BE OF NONCOMBUSTIBLE MATERIAL, IGNITION-RESISTANT MATERIAL, HEAVY TIMBER EXTERIOR WALL ASSEMBLY, LOG WALL CONSTRUCTION ASSEMBLY, OR WALL ASSEMBLIES THAT MEET THE PERFORMANCE CRITERIA IN ACCORDANCE WITH THE TEST PROCEDURES FOR A 10-MINUTE DIRECT FLAME CONTACT EXPOSURE TEST SET FORTH IN SFM STANDARD 12-7A-1. REFER TO ***SECTIONS 707A.1*** THROUGH ***707A.9*** FOR ADDITIONAL INFORMATION.
   A. EXTERIOR STUCCO CEMENT PLASTER SYSTEM SHALL BE NON-COMBUSTIBLE PER CBC 707A.3
5. PROVIDE TEMPERED SAFETY GLAZING ON BOTH PANES OF MULTI-PANE GLAZING PER CBC 708A.2.1

ROOF PLAN GENERAL NOTES

1. REFER TO STRUCTURAL PLANS FOR ROOF FRAMING INFORMATION INCLUDING MEMBER SIZES AND CONNECTION HARDWARE.
2. REFER TO PLUMBING PLANS ROOF VENT PENETRATIONS.
3. REFER TO SITE/GRADING PLAN FOR DOWNSPOUT DISCHARGE OR CONTINUATION.
4. WHERE THE ROOF PROFILE ALLOWS A SPACE BETWEEN THE ROOF COVERING AND DECKING, THE SPACES SHALL BE CONSTRUCTED TO PREVENT THE INTRUSION OF FLAMES AND EMBERS, BE FIRESTOPPED WITH APPROVED MATERIALS OR HAVE ONE LAYER OF MINIMUM 72 POUND MINERAL-SURFACED NONPERFORATED CAP SHEET OVER THE COMBUSTIBLE DECKING.
5. ALL ROOFING MATERIALS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
6. OVERHANG DIMENSIONS ARE FROM FACE OF EXTERIOR WALL SHEATHING TO ROOF EDGE
7. ROOF COVERINGS AND UNDERLAYMENT SHALL BE APPLIED IN ACCORDANCE WITH ***(2022 CBC 1507.1)***, AND MANUFACTURER'S INSTALLATION INSTRUCTIONS
8. WHERE PROVIDED, VENTILATION OPENINGS SHALL BE IN ACCORDANCE WITH ***(2022 CBC SECTION 1202)***. EXTERIOR OPENINGS INTO THE ATTIC SPACE SHALL BE COVERED WITH CORROSION-RESISTANT WIRE CLOTH SCREENING, HARDWARE CLOTH, PERFORATED VINYL OR SIMILAR MATERIAL. THE OPENINGS SHALL BE A MINIMUM OF 1/16" AND SHALL NOT EXCEED 1/4" PER ***(2022 CBC 1202.2.2.)***
9. ROOF VENTS SHALL BE APPLIED PER MANUFACTURER'S SPECIFICATIONS
10. FURNISHED DIMENSIONS FOR VENTS ARE GUIDES ONLY. INSTALL PER MANUFACTURERS SPECIFICATIONS AND ADJUST TO ACCOMMODATE TRUSS LOCATIONS, PLUMBING VENTS, AND SOLAR COLLECTORS.

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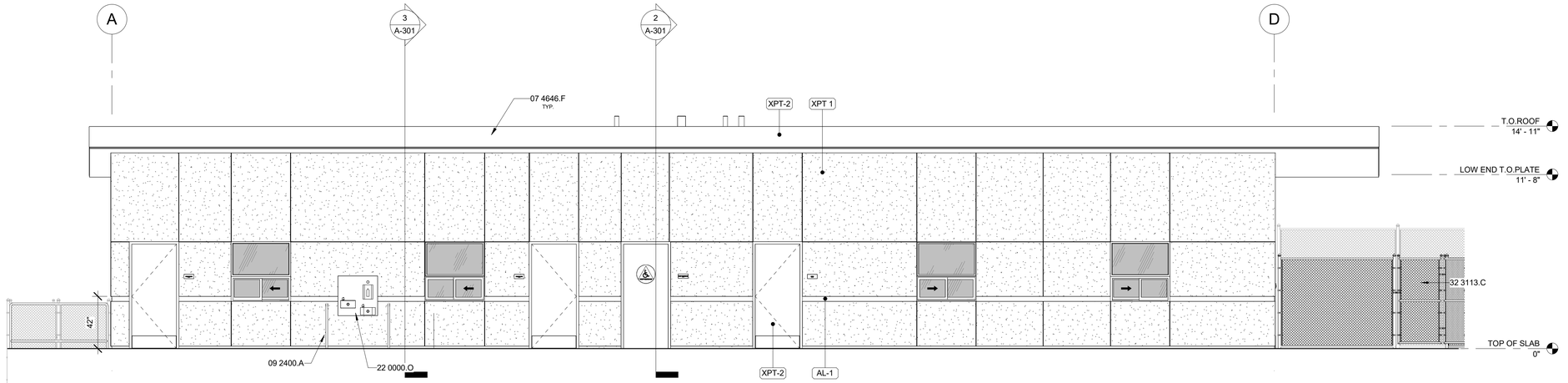
ROOF PLAN

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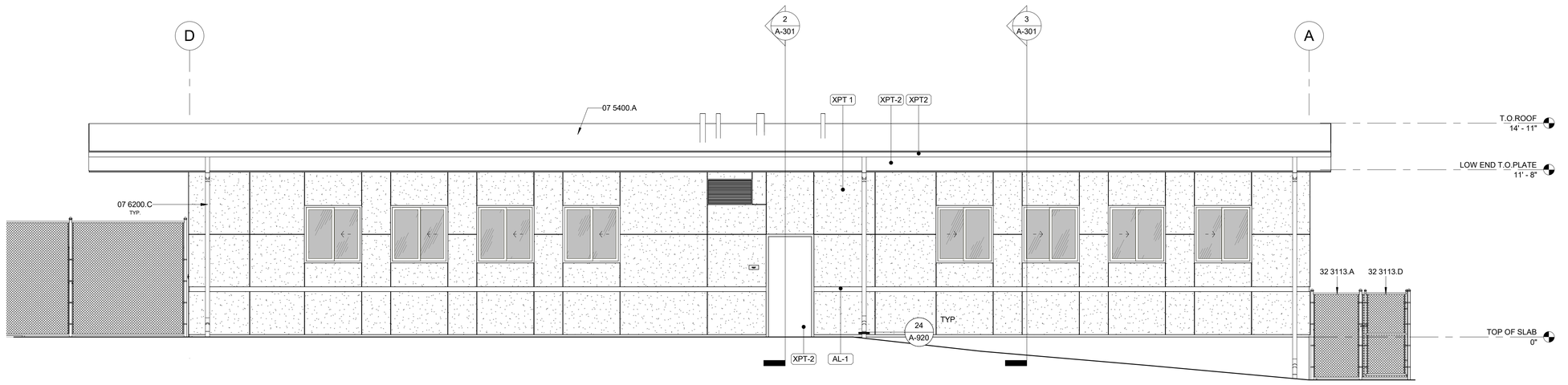
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1 EAST ELEVATION

A-101 | A-201 SCALE: 1/4" = 1'-0"



2 WEST ELEVATION

A-101 | A-201 SCALE: 1/4" = 1'-0"

MATERIAL SCHEDULE

Tag	Description	Application	Manufacturer	Pattern/Texture	Color	Other
PAINT						
AL-1	Aluminum Trim	Trim				
XPT-1	Exterior Paint	Field Color	Sherwin Williams	Satin	Sawyer's Fence SM 30719	
XPT-2	Exterior Paint	Accent Color/Trim	Sherwin Williams	Satin	Roman Blue	
	Exterior Paint	Doors/Frames	Sherwin Williams	Semi-Gloss	Roman Blue	

KEYNOTES

07 4646.F	FIBER CEMENT FASCIA. REFER TO A-920 FOR DETAILS.
07 5400.A	LOW SLOPE MEMBRANE ROOFING SYSTEM
07 6200.C	DOWNSPOUT. REFER TO DETAIL 24/A-920 FOR ATTACHMENT AT STUCCO.
09 2400.A	CEMENT PLASTER SYSTEM
22 0000.O	HI LOW DRINKING FOUNTAIN, REFER TO 21/A-904 DETAIL. SEE PLUMBING FIXTURE SCHEDULE ON SHEET P-001
32 3113.A	6' TALL CHAIN LINK FENCE, REFER TO DETAILS ON AS-904. COORDINATE FENCE POST AND FOOTING LOCATIONS WITH EXISTING UTILITY LINES.
32 3113.C	6' TALL CHAIN LINK ACCESSIBLE GATE, REFER TO DETAILS ON AS-904. COORDINATE FENCE POST AND FOOTING LOCATIONS WITH EXISTING UTILITY LINES.
32 3113.D	6' TALL CHAIN LINK MAINTENANCE GATE, REFER TO DETAILS ON AS-904. COORDINATE FENCE POST AND FOOTING LOCATIONS WITH EXISTING UTILITY LINES.

LEGEND

CPT 1 — MATERIAL TAG
REFER TO MATERIAL SCHEDULE FOR MORE INFORMATION

XPT 1 — EXTERIOR PAINT - FIELD COLOR

ELEVATION GENERAL NOTES

1. REFER TO GENERAL NOTES SHEET G-002 FOR ADDITIONAL REQUIREMENTS.
2. FRAMING ELEVATIONS, INCLUDING FLOOR PLATES AND FLOOR LEVEL ELEVATIONS ARE MEASURED FROM BUILDING FINISH FLOOR, U.N.O.
3. SEE DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
4. REFER TO ROOF PLAN FOR ROOF PITCH AND OVERHANGS. FASCIA PER DETAILS.
5. SEE ROOF PLAN FOR APPROXIMATE DOWNSPOUT LOCATIONS, U.N.O.
6. REFER TO DOOR AND WINDOW SCHEDULES AND TYPES FOR DOOR AND WINDOW INFORMATION.
7. SEE ELECTRICAL DRAWINGS FOR EXTERIOR LIGHTING
8. SEE MECHANICAL DRAWINGS FOR GRILLES AND LOUVERS. PAINT TO MATCH ADJACENT FINISH.
9. CONTRACTOR TO VERIFY COLOR SCHEME WITH OWNER BEFORE PERFORMING THE WORK.

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938079
2-28-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

MESA MS SPED SCIENCE BUILDING

2555 S HALCYON RD, ARROYO GRANDE, CA

EXTERIOR ELEVATIONS

NO.	REVISION	DATE

PROJECT MANAGER
KH

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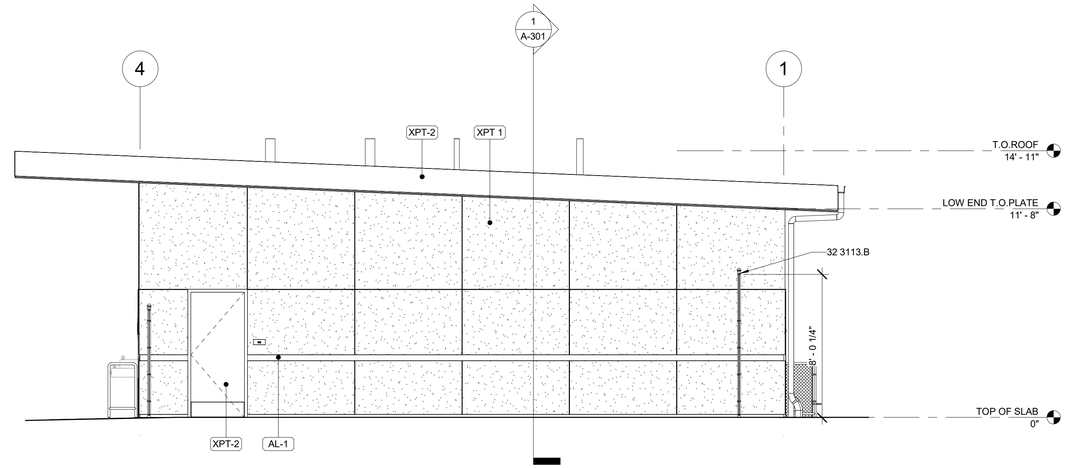
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APRIL 23, 2026

PROJECT NUMBER
0822-03-ED25

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A-201

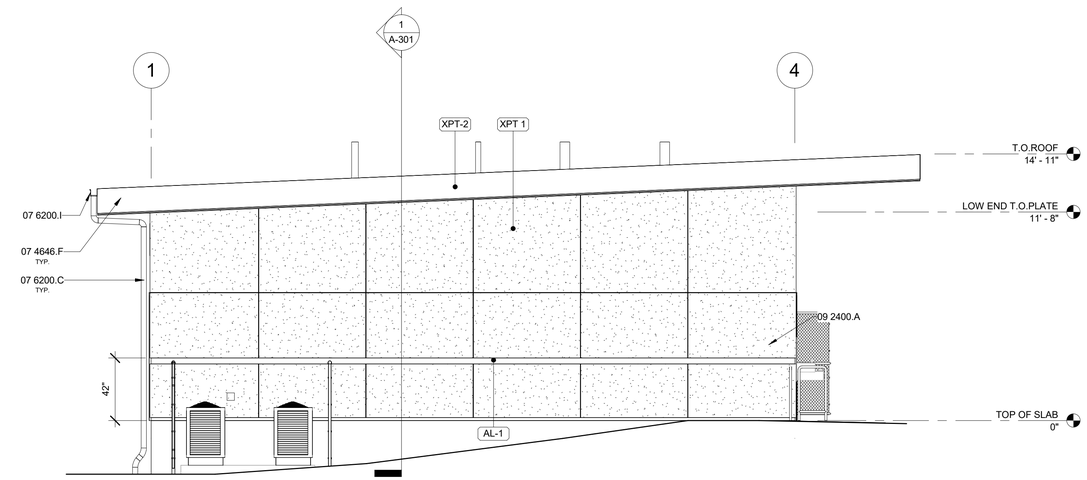
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1 NORTH ELEVATION

A-101 | A-202 SCALE: 1/4" = 1'-0"



2 SOUTH ELEVATION

A-101 | A-202 SCALE: 1/4" = 1'-0"

MATERIAL SCHEDULE

Tag	Description	Application	Manufacturer	Pattern/Texture	Color	Other
PAINT						
AL-1	Aluminum Trim	Trim				
XPT-1	Exterior Paint	Field Color	Sherwin Williams	Satin	Sawyer's Fence SM 30719	
XPT-2	Exterior Paint	Accent Color/Trim	Sherwin Williams	Satin	Roman Blue	
	Exterior Paint	Doors/Frames	Sherwin Williams	Semi-Gloss	Roman Blue	

KEYNOTES

07 4646.F	FIBER CEMENT FASCIA. REFER TO A-920 FOR DETAILS.
07 6200.C	DOWNSPOUT. REFER TO DETAIL 24/A-920 FOR ATTACHMENT AT STUCCO.
07 6200.I	GUTTER
09 2400.A	CEMENT PLASTER SYSTEM
32 3113.B	8' TALL CHAIN LINK FENCE, REFER TO DETAILS ON AS-904. COORDINATE FENCE POST AND FOOTING LOCATIONS WITH EXISTING UTILITY LINES.

LEGEND

CPT 1 — MATERIAL TAG
REFER TO MATERIAL SCHEDULE FOR MORE INFORMATION

XPT 1 — EXTERIOR PAINT - FIELD COLOR

ELEVATION GENERAL NOTES

1. REFER TO GENERAL NOTES SHEET G-002 FOR ADDITIONAL REQUIREMENTS.
2. FRAMING ELEVATIONS, INCLUDING FLOOR PLATES AND FLOOR LEVEL ELEVATIONS ARE MEASURED FROM BUILDING FINISH FLOOR, U.N.O.
3. SEE DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
4. REFER TO ROOF PLAN FOR ROOF PITCH AND OVERHANGS. FASCIA PER DETAILS.
5. SEE ROOF PLAN FOR APPROXIMATE DOWNSPOUT LOCATIONS, U.N.O.
6. REFER TO DOOR AND WINDOW SCHEDULES AND TYPES FOR DOOR AND WINDOW INFORMATION.
7. SEE ELECTRICAL DRAWINGS FOR EXTERIOR LIGHTING
8. SEE MECHANICAL DRAWINGS FOR GRILLES AND LOUVERS. PAINT TO MATCH ADJACENT FINISH.
9. CONTRACTOR TO VERIFY COLOR SCHEME WITH OWNER BEFORE PERFORMING THE WORK.

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CONSULTANT

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EXTERIOR ELEVATIONS

NO.	REVISION	DATE

PROJECT MANAGER
KH

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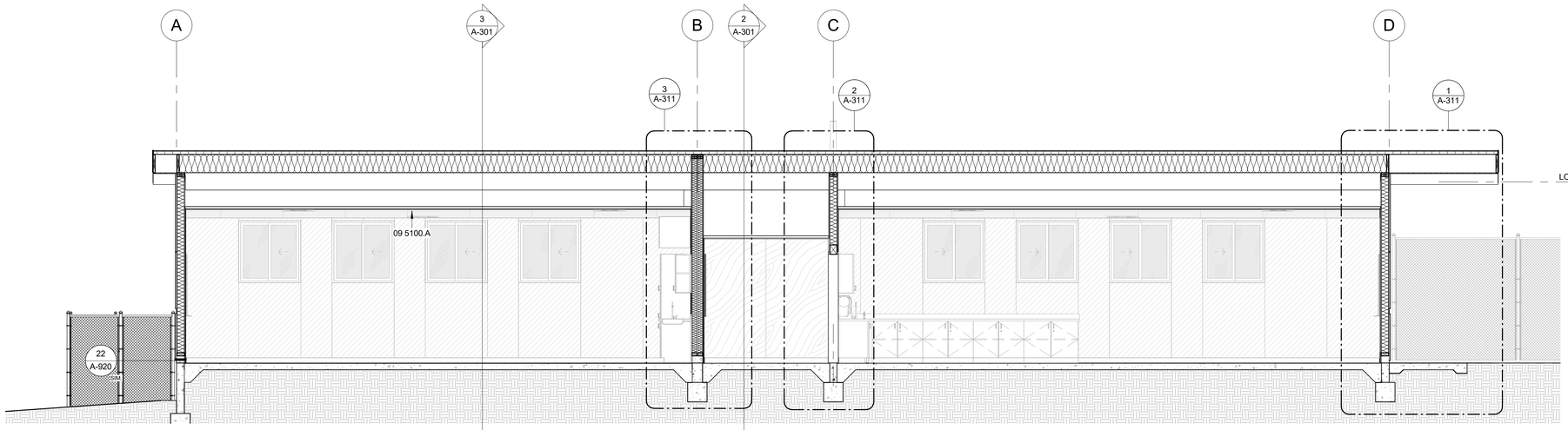
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PROJECT NUMBER
0822-03-ED25

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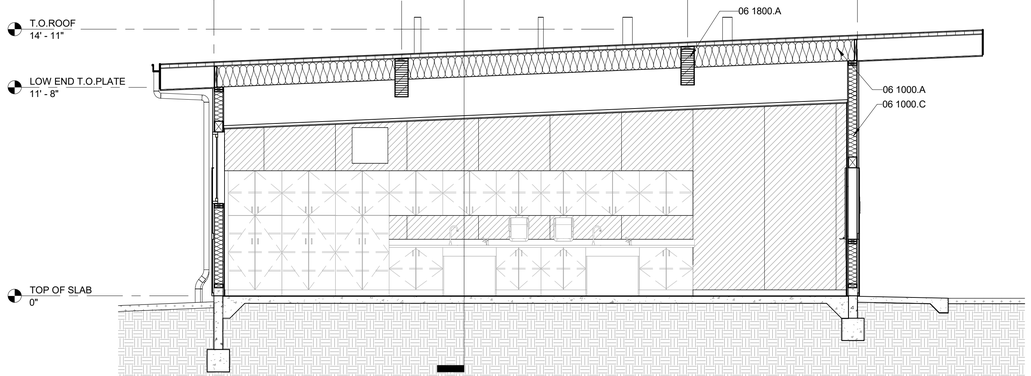
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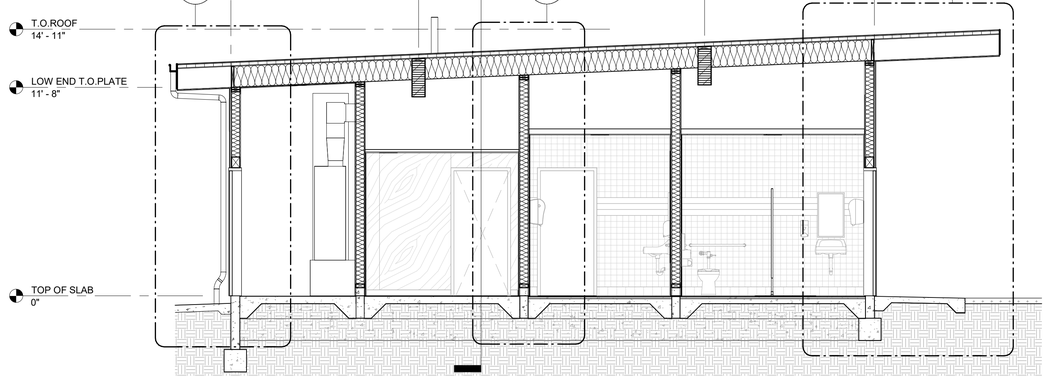
1 SECTION 1

A-101 | A-301 SCALE: 1/4" = 1'-0"



3 SECTION 3

A-101 | A-301 SCALE: 1/4" = 1'-0"



2 SECTION 2

A-101 | A-301 SCALE: 1/4" = 1'-0"

KEYNOTES

06 1000.A	ROOF FRAMING. REFER TO STRUCTURAL
06 1000.C	WALL FRAMING PER STRUCTURAL AND WALL LEGEND
06 1800.A	GLULAM BEAMS, PER STRUCTURAL.
09 5100.A	ACOUSTICAL LAY-IN TILE CEILING

LEGEND

SECTIONS GENERAL NOTES

1. THE PURPOSE OF THESE DRAWINGS IS TO SHOW CONSTRUCTION MATERIALSS/ASSEMBLIES. FOR SPECIFIC SIZES AND DETAILS REFER TO ARCHITECTURAL PLANS, ELEVATIONS, DETAILS, AND STRUCTURAL PLANS.
2. INSULATION: REFER TO ENERGY COMPLIANCE DOCUMENTATION SHEET EC-002 FOR ADDITIONAL RATINGS, REQUIREMENTS, AND INFORMATION.
3. REFER TO FIREBLOCKING / DRAFTSTOPING DETAIL 24/A-911.
4. WOOD SHALL BE PROTECTED FROM DECAY AND TERMITES AS REQUIRED PER ***2022 CBC SECTION 2304.12***
5. FOUNDATION SILLS TO BE NATURALLY DURABLE OR PRESERVATIVE-TREATED WOOD. ***2022 CBC SECTION 2304.112.2***
6. WALL ASSEMBLIES TO BE PER FLOOR PLAN.
7. DOORS, WINDOWS SYSTEMS TO BE PER APPLICABLE SCHEDULE. REFER TO FLOOR PLANS FOR IDENTIFICATION.

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MESA MS SPED SCIENCE BUILDING

2555 S HALCYON RD, ARROYO GRANDE, CA

BUILDING SECTIONS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER
KH

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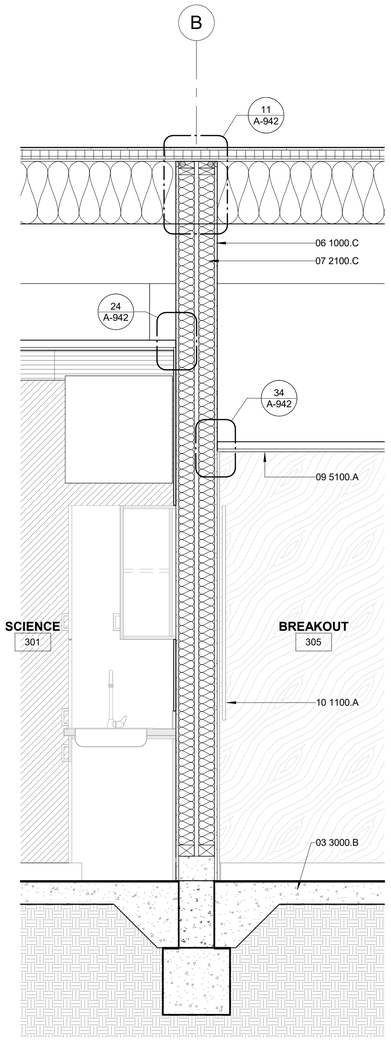
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PROJECT NUMBER
0822-03-ED25

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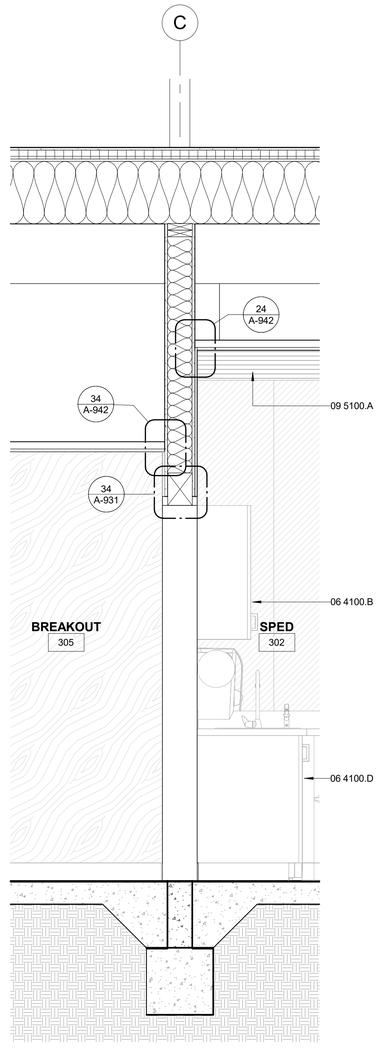
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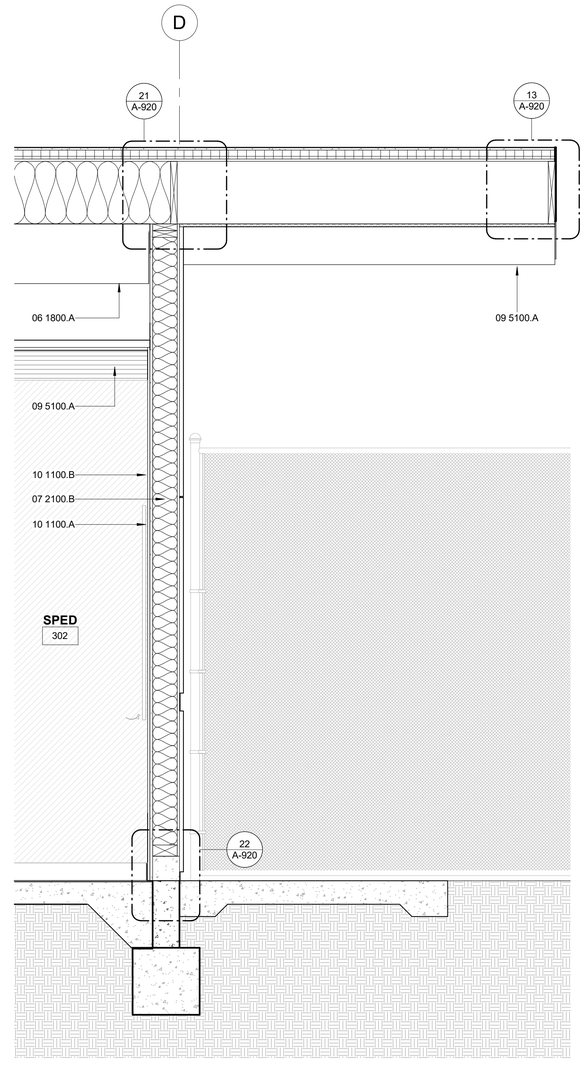
3 | A-301 | A-311 **SECTION 1 - CALLOUT 3**

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



2 | A-301 | A-311 **SECTION 1 - CALLOUT 2**

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



1 | A-301 | A-311 **SECTION 1 - CALLOUT 1**

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

KEYNOTES

03 3000.B	CONCRETE SLAB, REFER TO STRUCTURAL."
06 1000.C	WALL FRAMING PER STRUCTURAL AND WALL LEGEND
06 1800.A	GLULAM BEAMS, PER STRUCTURAL.
06 4100.B	UPPER CABINET. REFER TO INTERIOR ELEVATIONS FOR SIZE, CONFIGURATION, AND WIC NUMBER.
06 4100.D	ACCESSIBLE BASE CABINET. REFER TO INTERIOR ELEVATIONS FOR SIZE, CONFIGURATION, AND WIC NUMBER.
07 2100.B	EXTERIOR WALL BATT INSULATION PER SPECIFICATIONS.
07 2100.C	SOUND CONTROL BATT INSULATION.
09 5100.A	ACOUSTICAL LAY-IN TILE CEILING
10 1100.A	4' x 8' MARKERBOARD; CONTRACTOR PROVIDED. REFER TO DETAIL 22/A-942
10 1100.B	TACKABLE WALL PANELS, CONTRACTOR TO PROVIDE BLOCKING. REFER TO DETAIL 24/A-942

LEGEND

BATT INSULATION

SECTIONS GENERAL NOTES

1. THE PURPOSE OF THESE DRAWINGS IS TO SHOW CONSTRUCTION MATERIALSS/ASSEMBLIES. FOR SPECIFIC SIZES AND DETAILS REFER TO ARCHITECTURAL PLANS, ELEVATIONS, DETAILS, AND STRUCTURAL PLANS.
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5. FOUNDATION SILLS TO BE NATURALLY DURABLE OR PRESERVATIVE-TREATED WOOD. ***2022 CBC SECTION 2304.112.2***
6. WALL ASSEMBLIES TO BE PER FLOOR PLAN.
7. DOORS, WINDOWS SYSTEMS TO BE PER APPLICABLE SCHEDULE. REFER TO FLOOR PLANS FOR IDENTIFICATION.

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CONSULTANT

MESA MS SPED SCIENCE BUILDING
2555 S HALCYON RD, ARROYO GRANDE, CA

WALL SECTIONS

NO.	REVISION	DATE

PROJECT MANAGER
KH

DRAWN BY	CHECKED BY
DK	KF

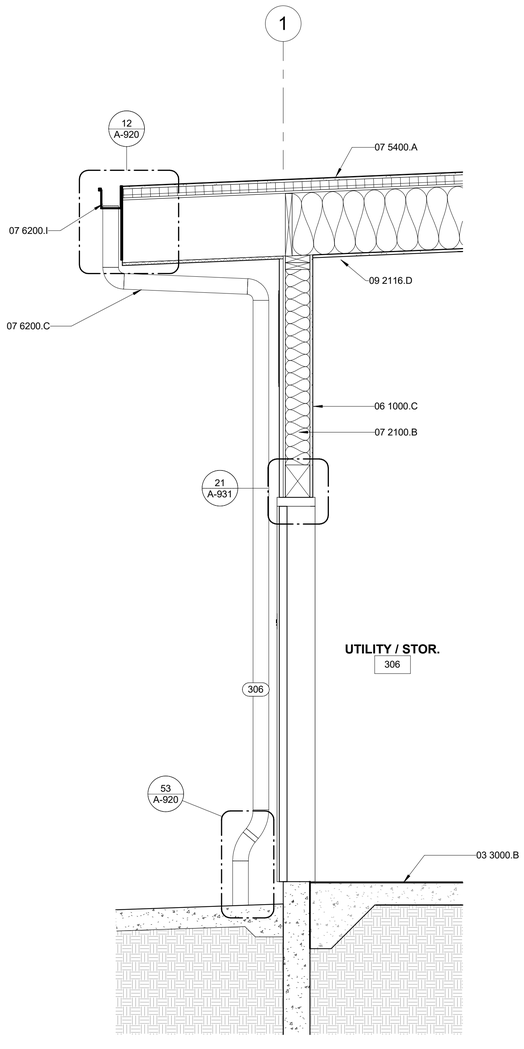
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PROJECT NUMBER
0822-03-ED25

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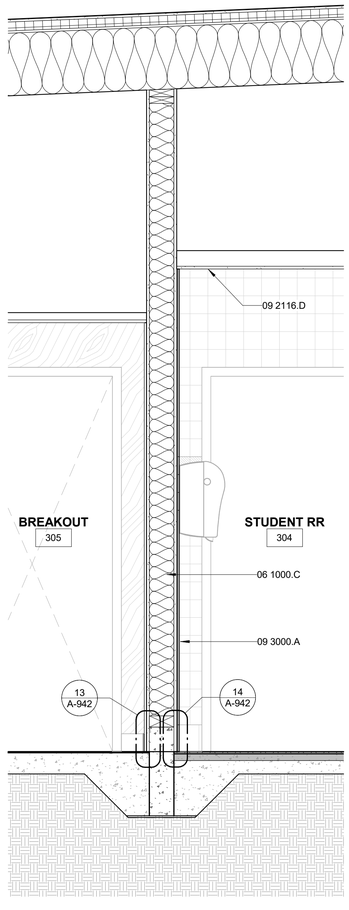
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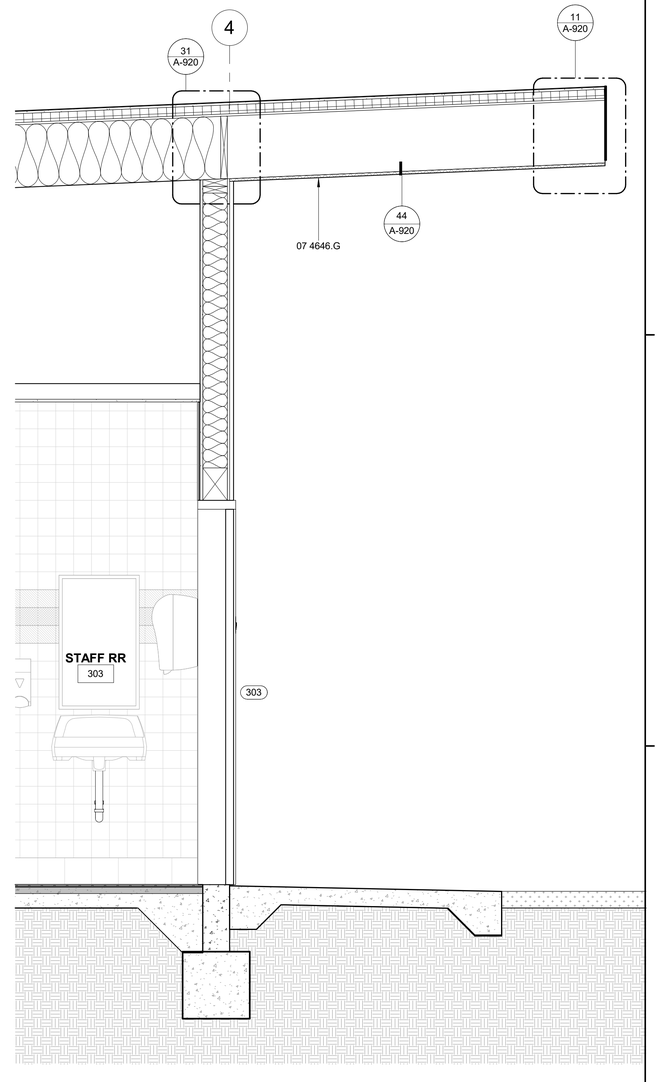
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A-301 | A-312 SCALE: 3/4" = 1'-0"



2 SECTION 2 - CALLOUT 2

A-301 | A-312 SCALE: 3/4" = 1'-0"



1 SECTION 2 - CALLOUT 1

A-301 | A-312 SCALE: 3/4" = 1'-0"

KEYNOTES

03 3000.B	CONCRETE SLAB, REFER TO STRUCTURAL."
06 1000.C	WALL FRAMING PER STRUCTURAL AND WALL LEGEND
07 2100.B	EXTERIOR WALL BATT INSULATION PER SPECIFICATIONS.
07 4646.G	FIBER CEMENT SOFFIT. REFER TO 44/A-920 FOR DETAILS.
07 5400.A	LOW SLOPE MEMBRANE ROOFING SYSTEM
07 6200.C	DOWNSPOUT. REFER TO DETAIL 24/A-920 FOR ATTACHMENT AT STUCCO.
07 6200.I	GUTTER
09 2116.D	GYPSUM BOARD DROP CEILING.
09 3000.A	CERAMIC TILE, WALL APPLICATION.

LEGEND

BATT INSULATION

SECTIONS GENERAL NOTES

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MESA MS SPED SCIENCE BUILDING
2555 S HALCYON RD, ARROYO GRANDE, CA

WALL SECTIONS

NO.	REVISION	DATE

PROJECT MANAGER
KH

DRAWN BY	CHECKED BY
DK	KF

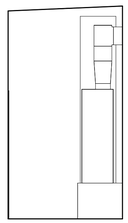
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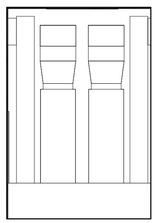
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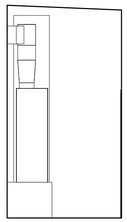
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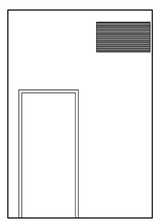
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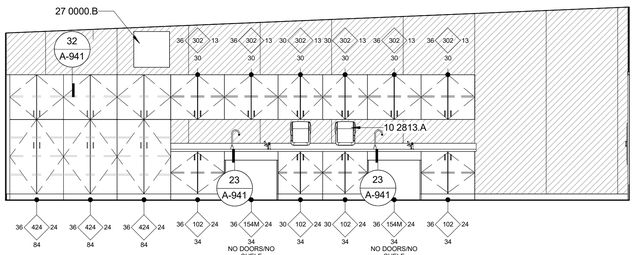
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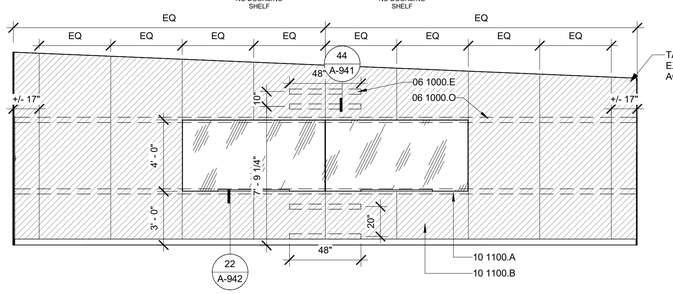
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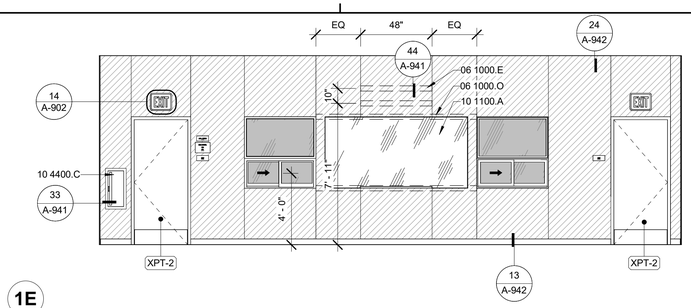
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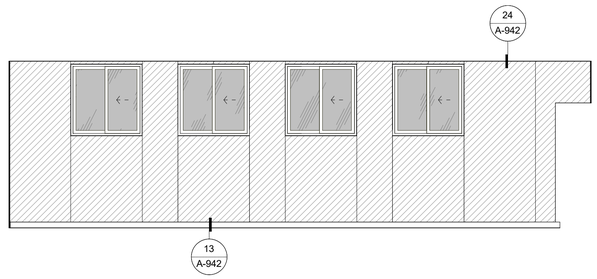
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1S



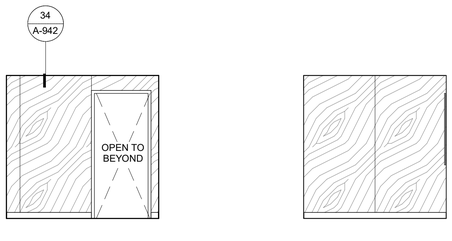
1E



1W

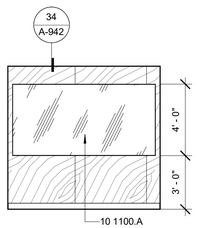
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SCIENCE CLASSROOM

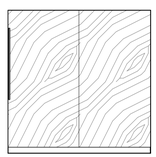


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4E



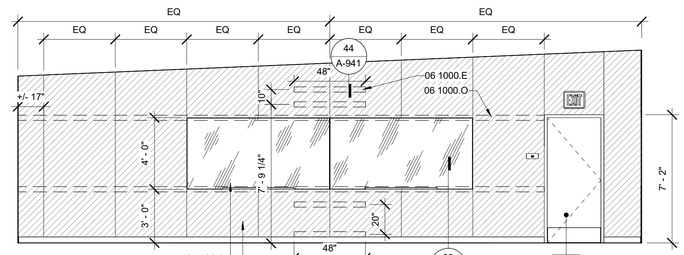
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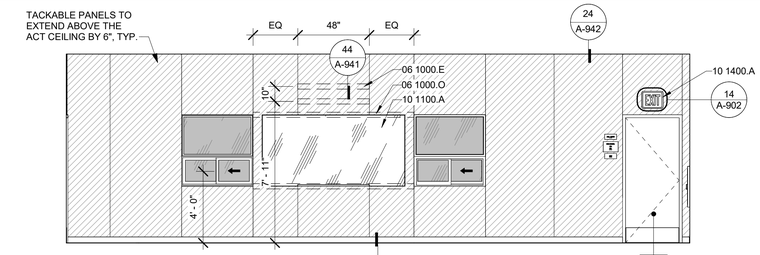
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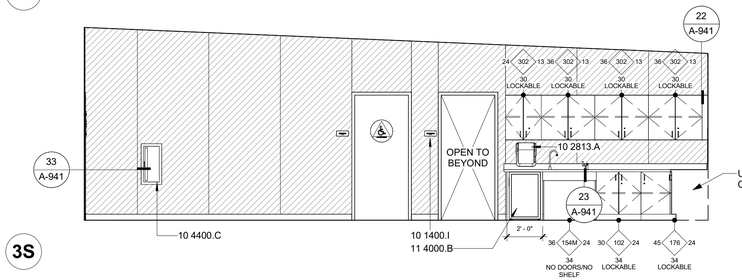
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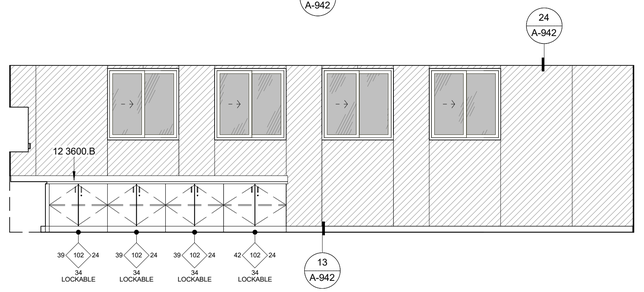
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3E



3S

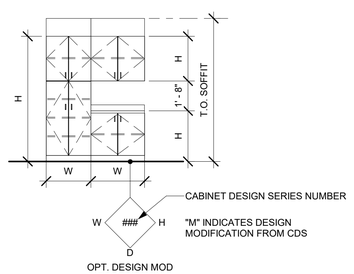


3W

1/4" = 1'-0"

SPED CLASSROOM

CASEWORK LEGEND



MATERIAL LEGEND

CPT 1 — MATERIAL TAG
REFER TO MATERIAL SCHEDULE FOR MORE INFORMATION

FLOORS

- CPT 1
- LVT 1
- CFT 1
- PC

WALLS

- CT 1
- PLY 1
- CT 2
- VTP 1
- CT 3
- IPT 1
- CT 4

KEYNOTES

06 1000.E	PROVIDE BLOCKING FOR CLIENT PROVIDED WALL-MOUNTED TV BRACKET.
06 1000.O	PROVIDE BLOCKING FOR CLIENT PROVIDED WALL-MOUNTED WHITE BOARD AND OTHER FUTURE USE.
10 1100.A	4' x 8' MARKERBOARD; CONTRACTOR PROVIDED. REFER TO DETAIL 22/A-942
10 1100.B	TACKABLE WALL PANELS, CONTRACTOR TO PROVIDE BLOCKING. REFER TO DETAIL 24/A-942
10 1400.A	ILLUMINATED EXIT SIGN. REFER TO DETAIL 14/A-902
10 1400.I	SIGNAGE. REFER TO A-101 AND A-601
10 2813.A	SURFACE MOUNTED PAPER TOWEL DISPENSER, OFCI
10 4400.C	SEMI-RECESSED FIRE EXTINGUISHER CABINET WITH EXTINGUISHER, 2A:10B:C RATING ; REFER TO 33/A-941
11 4000.B	REFRIGERATOR. OWNER FURNISHED.
12 3600.B	CHEMICAL RESISTANT COMPACT LAMINATE COUNTERTOP
27 0000.B	WALL MOUNTED IDF CABINET, REFER TO ELECTRICAL

INT. ELEVS. GENERAL NOTES

1. REFER TO GENERAL NOTES SHEET G-002 FOR ADDITIONAL REQUIREMENTS.
2. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION ON ELECTRICAL EQUIPMENT.
3. REFER TO RCP'S FOR SOFFIT DIMENSIONS AND FURTHER INFORMATION.
4. PROVIDE BLOCKING FOR ALL WALLS WHERE WALL HUNG EQUIPMENT AND FIXTURES OCCUR.
5. ALL DIMENSIONS SHOWN IN A ROOM TO BE CONSIDERED TYPICAL FOR EACH ELEVATION OF THE ROOM, UNLESS NOTED OTHERWISE.
6. VERIFY MOUNTING HEIGHTS OF ACCESSORIES AND PLUMBING FIXTURES MEET ACCESSIBILITY REQUIREMENTS WHERE APPLICABLE.
7. ALL WALL AND CEILING FINISHES SHALL COMPLY WITH ***2022 CBC TABLE 803.13*** FOR MAXIMUM FLAME SPREAD AND SMOKE DENSITY.
8. REFER TO FINISH SCHEDULE ON A-103 FOR WALL FINISH MATERIALS AND COLOR SELECTIONS.
9. REFER TO PLUMBING PLANS FOR LOCATIONS OF WALL MOUNTED ACCESS PANELS AT CONCEALED PLUMBING EQUIPMENT.

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938079
2-28-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

MESA MS SPED SCIENCE BUILDING
2555 S HALCYON RD, ARROYO GRANDE, CA

INTERIOR ELEVATIONS

NO.	REVISION	DATE

PROJECT MANAGER
KH

DRAWN BY DK
CHECKED BY KF

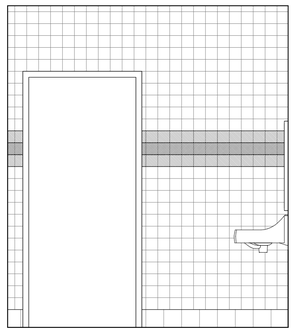
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PROJECT NUMBER
0822-03-ED25

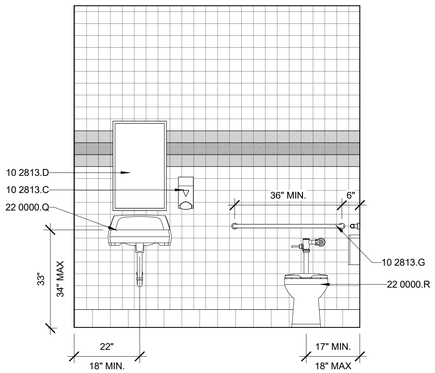
SHEET
A-511

DSA BACK CHECK 2

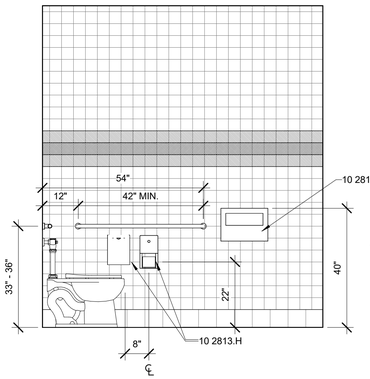
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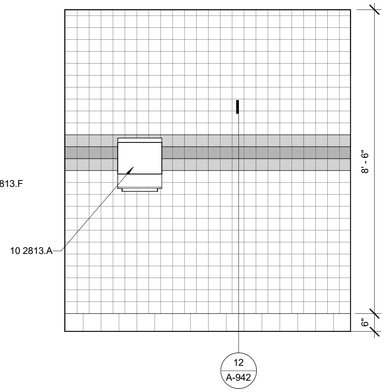
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4E

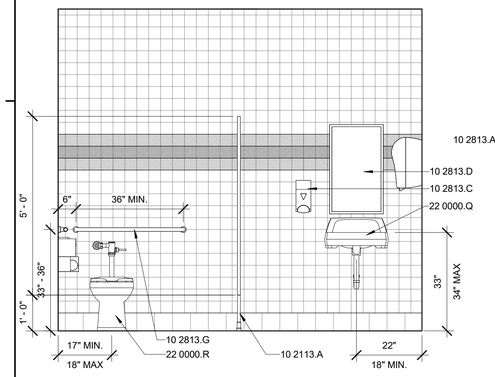


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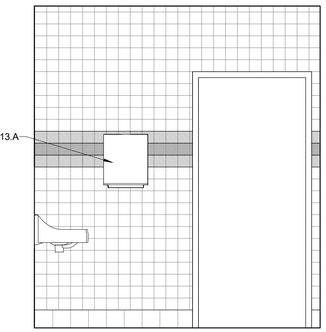


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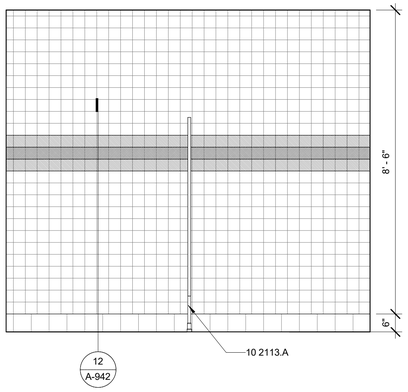
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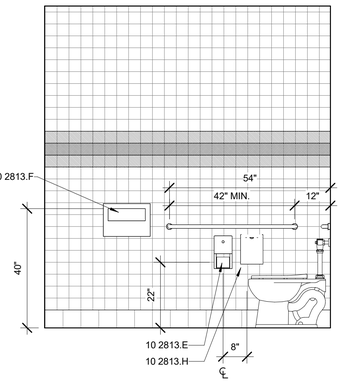
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5E

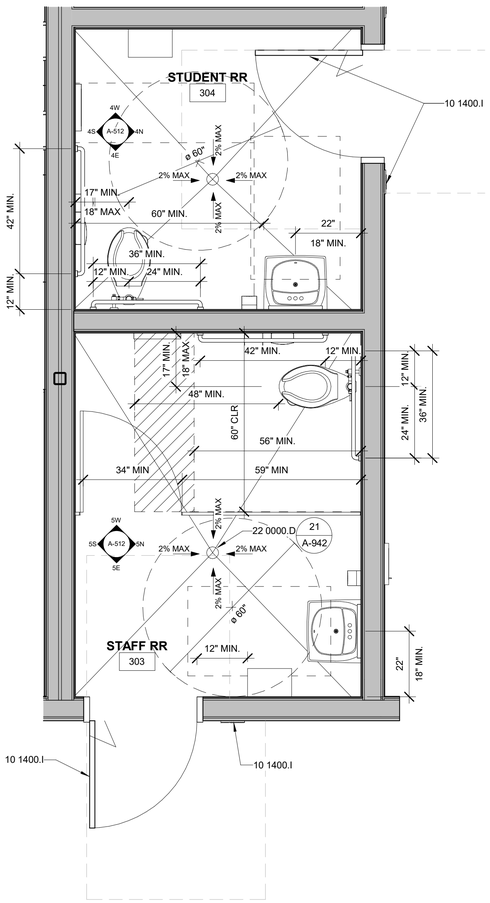


5S



5W

1/2" = 1'-0" **STAFF RESTROOM**

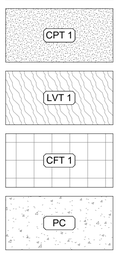


1 A-101 | A-512 **ENLARGED RESTROOM PLAN**
SCALE: 1/2" = 1'-0"

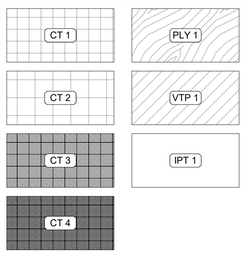
MATERIAL LEGEND

CPT 1 — MATERIAL TAG
REFER TO MATERIAL SCHEDULE FOR MORE INFORMATION

FLOORS



WALLS



KEYNOTES

10 1400.I	SIGNAGE. REFER TO A-101 AND A-601
10 2113.A	TOILET COMPARTMENT
10 2813.A	SURFACE MOUNTED PAPER TOWEL DISPENSER, OFCI
10 2813.C	SOAP DISPENSER MOUNTED
10 2813.D	MIRROR.
10 2813.E	TOILET PAPER HOLDER, OFCI
10 2813.F	SEAT COVER DISPENSER
10 2813.G	GRAB BAR REFER TO DETAIL12/A-904
10 2813.H	SANITARY NAPKIN DISPOSAL.
22 0000.D	FLOOR DRAIN. REFER TO PLUMBING.
22 0000.Q	SINK OR LAVATORY.REFER TO PLUMBING.
22 0000.R	TOILET. REFER TO PLUMBING.

INT. ELEVS. GENERAL NOTES

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INTERIOR ELEVATIONS & ENLARGED RESTROOM PLAN

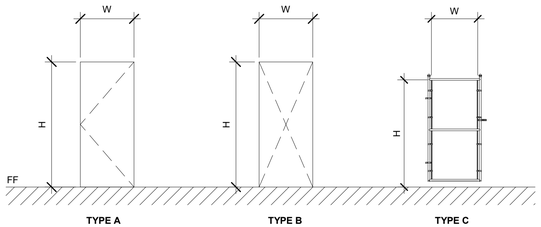
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SHEET
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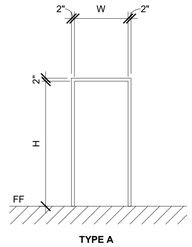
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DOOR & FRAME TYPES



TYPE A | TYPE B | TYPE C

DOOR TYPES



TYPE A

FRAME TYPES

DETAILS

EXTERIOR		INTERIOR	
11 / A-931	TYPICAL HEAD	24 / A-931	TYPICAL HEAD/JAMB
13 / A-931	TYPICAL THRESHOLD	13 / A-931	TYPICAL THRESHOLD
22 / A-931	TYPICAL JAMB	34 / A-931	INTERIOR @ BREAKOUT

DOOR SCHEDULE

NO.	INSIDE ROOM	SIZE			DOOR			FRAME			FIRE RATING	HARDWARE GROUP	SIGNAGE			REMARKS
		WIDTH	HEIGHT	THICKNESS	TYPE	MAT'L	FINISH	TYPE	MAT'L	FINISH			PUSH	PULL	DOOR	
301a	SCIENCE	3' - 0"	7' - 0"	1 3/4"	A	HM	1	A	HM	1	--	01	X	RID	(none)	1, 2, 3, 5, 7, 10
301b	SCIENCE	3' - 0"	7' - 0"	1 3/4"	A	HM	1	A	HM	1	--	02	X	RID	(none)	1, 2, 3, 5, 7, 10
302a	SPED	3' - 0"	7' - 0"	1 3/4"	A	HM	1	A	HM	1	--	02	X	RID	(none)	1, 2, 3, 5, 7, 10
302b	SPED	3' - 0"	7' - 0"	1 3/4"	A	HM	1	A	HM	1	--	02	X	RID	(none)	1, 2, 3, 5, 7, 10
303	STAFF RR	3' - 0"	7' - 0"	1 3/4"	A	HM	1	A	HM	1	--	03	(none)	RRW	RRD	5, 8
304	STUDENT RR	3' - 0"	7' - 0"	1 3/4"	A	WD	4	A	HM	2	--	04	RRW	RID	RRD	5, 8
305	BREAKOUT	3' - 0"	7' - 0"	0"	B	NONE		A	HM	2	--	N/A	(none)	RID	(none)	9
306	UTILITY / STOR.	3' - 0"	7' - 0"	1 3/4"	A	HM	1	A	HM	1	--	05	(none)	RID	(none)	5, 7
307	SPED YARD	3' - 0"	6' - 0"	2"	C	CL	3	N/A	N/A	N/A	--	06	(none)	(none)	(none)	5, 6
308	MECH YARD	3' - 0"	6' - 0"	2"	C	CL	3	N/A	N/A	N/A	--		(none)	(none)	(none)	6

ROOM SIGN TYPES

***NOTE:**
REFER TO 12/G-903 AND 22/G-904 FOR MOUNTING HEIGHTS FOR SIGNAGE.

AS	ASSISTIVE LISTENING
OL	MAXIMUM OCCUPANT LOAD
RID	ROOM IDENTIFICATION
RRD	RESTROOM DOOR SYMBOL
RRW	RESTROOM WALL SIGN
X	EXIT SIGN



TYPE: **RID**

REF. TO: 12 / A-902



TYPE: **X**

REF. TO: 12 / A-902



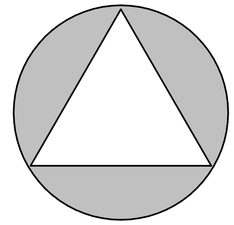
TYPE: **RRW**

REF. TO: 23 / A-902



TYPE: **OL**

REF. TO: 32 / A-902



TYPE: **RRD**

REF. TO: 23 / A-902

DOOR GENERAL NOTES

1. REFER TO FLOOR PLANS FOR DOOR LOCATIONS.
2. CONTRACTOR TO VERIFY EXACT ROUGH OPENING SIZES WITH DOOR MANUFACTURER SPECIFICATIONS PRIOR TO FABRICATION OF ROUGH OPENINGS.
3. CONTRACTOR TO VERIFY ACTUAL DOOR SIZES TO FIT FINISH OPENING PRIOR TO FABRICATION OF DOOR AND FINISH OPENING.
4. REFER TO DOOR TYPES LEGEND FOR GLAZING.
5. REFER TO T24 REPORT FOR GLAZING ENERGY REQUIREMENTS
6. INSTALL PER MANUFACTURERS WRITTEN INSTRUCTIONS
7. HOLLOW METAL DOORS TO BE POLYSTYRENE FILLED.

DOOR REMARKS

1. EGRESS DOOR.
2. EQUIPPED W/PANIC HARDWARE..
3. INCLUDES SAFETY GLAZING.
4. ~~LOUVERED DOOR.~~
5. KICK-PLATE PROVIDED.
6. REFER TO CIVIL PLANS FOR GATE ELEVATIONS AND ADDITIONAL INFORMATION.
7. PROVIDE SEAL AT BOTTOM OF DOOR PANEL.
8. 1" UNDERCUT.
9. DOUBLE RABBET PER DETAIL 34/A-931 AT SPED FRAME OPENING 305.
10. LOCKABLE FROM THE INSIDE PER CBC. 1010.1.11.

MATERIAL & FINISH LEGEND

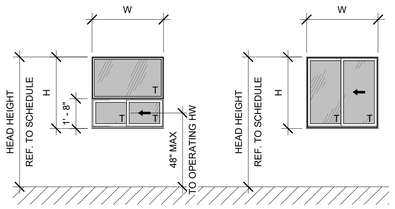
MATERIAL

- CL CHAIN LINK
- HM HOLLOW METAL
- MP METAL PICKET
- STL STEEL
- WD WOOD
- SG SAFETY GLAZING

FINISH

1. PAINTED, XPT2
2. STAIN
3. VINYL COATED
4. HDPL

WINDOW TYPES



TYPE A
SLIDER WITH FIXED TRANSOM
ACCESSIBLE WINDOW*

TYPE B
SLIDER

DETAILS

21 / A-931	TYPICAL HEAD
22 / A-931	TYPICAL JAMB
23 / A-931	TYPICAL SILL

GLASS AND GLAZING NOTES

GLAZING HAZARDOUS LOCATIONS DESCRIBED IN CBC SECTION 2406.3. SHALL BE TEMPERED SAFETY GLASS, IF WITHIN 24" OF ANY DOOR. GLAZING IN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE NEAREST EXPOSED EDGE OF THE GLAZING IS WITHIN 24-INCH ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE WALKING SURFACE.

EACH LIGHT SHALL BEAR THE MANUFACTURERS LABEL DESIGNATION THE TYPE AND THICKNESS OF GLASS. EACH LIGHT OF TEMPERED SAFETY GLASS SHALL HAVE A PERMANENT IDENTIFICATION LABEL WHICH SHALL BE VISIBLE WHEN THE LIGHT IS INSTALLED.

FRAMING PERIMETER DIMENSIONS ARE OPENING SIZES, CONTRACTOR TO VERIFY EXACT FRAME DIMENSIONS.

*ACCESSIBLE WINDOW NOTES:

AT LEAST ONE WINDOW OPENING IN AN ACCESSIBLE ROOM SHALL COMPLY WITH THE FOLLOWING:
CLEAR FLOOR SPACE THAT COMPLIES WITH CBC 11B-305 SHALL BE PROVIDED WHERE OPERABLE HARDWARE EXISTS, MAX OPERATING HEIGHT SHALL COMPLY WITH CBC 11B-308 AND BE NO HIGHER THAN 48" A.F.F.

OPERABLE PARTS: WINDOW SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST, AND FORCE REQUIRED TO ACTIVATE SHALL BE 5 LBS. MAX. BASIS OF DESIGN WINDOW HAS "PUSH" OPERATED SLIDER HARDWARE.

REFER TO SHEET A-101 FOR LOCATION OF ACCESSIBLE WINDOW.

WINDOW SCHEDULE

NO.	TYPE	SIZE		SILL HEIGHT	HEAD HEIGHT	FRAME MATERIAL	REMARKS
		WIDTH	HEIGHT				
301a	A	4' - 0"	4' - 0"	3' - 2"	7' - 2"	VINYL	1
301b	A	4' - 0"	4' - 0"	3' - 2"	7' - 2"	VINYL	1
301c	B	4' - 0"	4' - 0"	5' - 2"	9' - 2"	VINYL	1
301d	B	4' - 0"	4' - 0"	5' - 2"	9' - 2"	VINYL	1
301e	B	4' - 0"	4' - 0"	5' - 2"	9' - 2"	VINYL	1
301f	B	4' - 0"	4' - 0"	5' - 2"	9' - 2"	VINYL	1
302a	A	4' - 0"	4' - 0"	3' - 2"	7' - 2"	VINYL	1
302b	A	4' - 0"	4' - 0"	3' - 2"	7' - 2"	VINYL	1
302c	B	4' - 0"	4' - 0"	5' - 2"	9' - 2"	VINYL	1
302d	B	4' - 0"	4' - 0"	5' - 2"	9' - 2"	VINYL	1
302e	B	4' - 0"	4' - 0"	5' - 2"	9' - 2"	VINYL	1
302f	B	4' - 0"	4' - 0"	5' - 2"	9' - 2"	VINYL	1

WINDOW GENERAL NOTES

1. REFER TO GENERAL NOTES ON SHEET G-101 FOR ADDITIONAL REQUIREMENTS
2. REFER TO FLOOR PLANS FOR WINDOW LOCATIONS.
3. CONTRACTOR TO VERIFY EXACT ROUGH OPENING SIZES WITH WINDOW MANUFACTURER SPECIFICATIONS PRIOR TO FABRICATION OF ROUGH OPENINGS.
4. CONTRACTOR TO VERIFY ACTUAL WINDOW SIZES TO FIT FINISH OPENING PRIOR TO FABRICATION OF WINDOW AND FINISH OPENING.
5. HEAD HEIGHT MEASURED FROM FF UNLESS NOTED OTHERWISE.
6. REFER TO ENERGY COMPLIANCE REPORTS FOR U-FACTOR, SHGC AND ADDITIONAL WINDOW REQUIREMENTS.
7. ALL GLAZING IS DOUBLE PANE UNLESS OTHERWISE NOTED.
8. PROVIDE SHOP DRAWINGS FOR ALL WINDOW UNITS
9. REFER TO WINDOW TYPES LEGEND FOR GLAZING.
10. REFER TO WINDOW SCHEDULE AND WINDOW TYPES LEGEND FOR FURTHER INFORMATION.
11. STOREFRONT SECTIONS ARE 2" AND CURTAINWALL SECTIONS ARE 2-1/2", UNO. REFER TO STOREFRONT TYPES LEGEND FOR FURTHER INFORMATION.
12. WINDOWS BETWEEN CONDITIONED AND UNCONDITIONED SPACES SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED OR OTHERWISE SEALED.
13. SAFETY GLAZING NOTATED WITH "T"

WINDOW REMARKS

1. INCLUDES SAFETY GLAZING ON BOTH PANES. REFER TO SPECIFICATIONS FOR INSULATED GLASS IG-1.

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LICENSED ARCHITECT
KATHRYN ANNE HICKS
938079
2-28-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

MESA MS SPED SCIENCE BUILDING
2555 S HALCYON RD, ARROYO GRANDE, CA

DOOR AND WINDOW SCHEDULES

NO.	REVISION	DATE

PROJECT MANAGER
KH

DRAWN BY DK | **CHECKED BY** KF

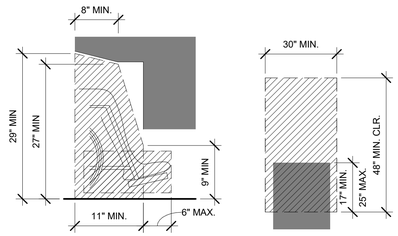
DATE
APRIL 23, 2026

PROJECT NUMBER
0822-03-ED25

SHEET
A-601

DSA BACK CHECK 2

4/21/2026 10:34:51 AM
Autodesk Docs://0822-03-ED25-Mesa Middle School Classroom/0822-03_Mesa Middle School - Science & SPED Classroom.rvt



ELEVATION PLAN

NOTE:
1. THE REQUIRED CLEAR FLOOR SPACE MAY NOT OVERLAP THE REQUIRED KNEE SPACE BY MORE THAN 19".
2. KNEE CLEARANCES AT TABLES, COUNTERS & WORKSURFACES IS AT LEAST 27" HIGH, 30" WIDE AND 19" DEEP.

REF: 2022 CBC 11B-306

41 TOE & KNEE CLEARANCES

A-901 SCALE: 3" = 1'-0"



CARPET OR CARPET TILE MUST CONSIST OF:
- LEVEL LOOP
- TEXTURED LOOP
- LEVEL CUT PILE, OR
- LEVEL CUT/UNCUT PILE

IF PILE HEIGHT EXCEEDS 1/4", THEN EDGES MUST HAVE BEVELED TRIM

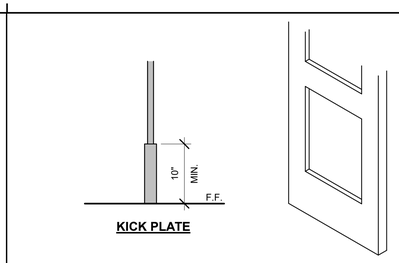
EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND SHALL HAVE TRIM ON THE ENTIRE LENGTH OF THE EXPOSED EDGE

FOR CHANGES IN LEVEL, REF. TO: 33 / A-901

REF. CBC 11B-302.2

42 CARPET FLOOR SURFACES

A-901 SCALE: 12" = 1'-0"



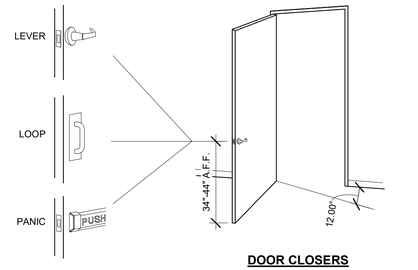
KICK PLATE

NOTE:
SWINGING DOOR & GATE SURFACES WITHIN 10" OF FINISH FLOOR SHALL HAVE A SMOOTH SURFACE OF THE PUSH SIDE EXTENDING THE FULL WIDTH OF DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS SHALL BE WITHIN 1/16" OF SURFACE & SHALL BE FREE OF SHARP OR ABRASIVE EDGES. CAVITIES CREATED BY KICK PLATES SHALL BE CAPPED.

REF: CBC 11B-404.2.10

31 ACC. DOOR KICK PLATE

A-901 SCALE: 1" = 1'-0"



ACCEPTABLE DOOR HARDWARE AND MOUNTING HEIGHTS

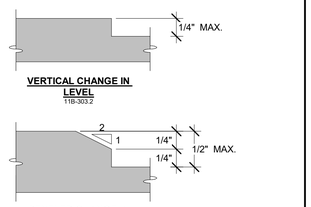
DOOR CLOSERS

NOTE:
DOOR CLOSERS IF PRESENT, MUST BE SET SO THAT IT TAKES DOOR AT LEAST 5 SECONDS TO CLOSE FROM AN OPEN POSITION OF 90 DEGREES TO WITHIN 12° OF LATCH. THE FORCE TO OPEN DOOR SHALL NOT EXCEED 5 LBS. TYPICAL.

REF: CBC 11B-404.2

32 ACC. DOOR REQUIREMENTS

A-901 SCALE: 1" = 1'-0"



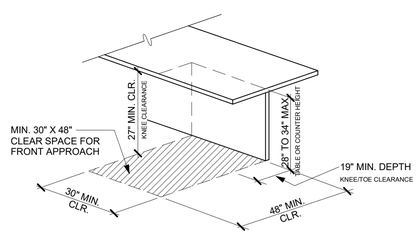
VERTICAL CHANGE IN LEVEL
11B-303.2

BEVELED CHANGE IN LEVEL
11B-303.3

REF. CBC 11B 303

33 CHANGES IN LEVEL

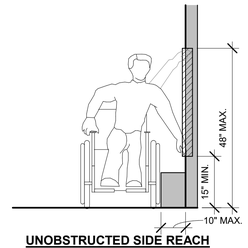
A-901 SCALE: 12" = 1'-0"



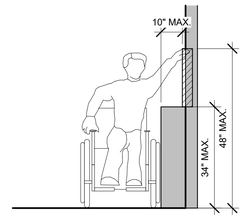
NOTE:
1. THE REQUIRED CLEAR FLOOR SPACE MAY NOT OVERLAP THE REQUIRED KNEE SPACE BY MORE THAN 19".
2. KNEE CLEARANCES AT TABLES, COUNTERS & WORKSURFACES IS AT LEAST 27" HIGH, 30" WIDE AND 19" DEEP.

34 COUNTERTOP CLEARANCES

A-901 SCALE: 3" = 1'-0"



UNOBSTRUCTED SIDE REACH

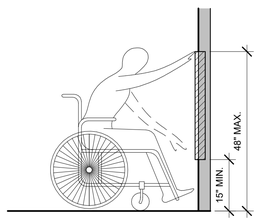


OBSTRUCTED HIGH SIDE REACH

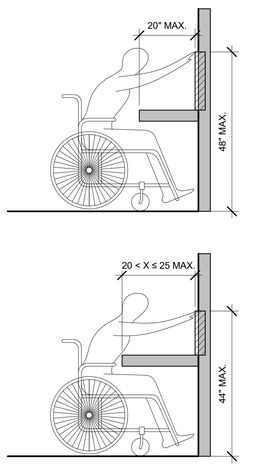
REF: CBC 11B-308.3

22 ACC. SIDE REACH

A-901 SCALE: 1/2" = 1'-0"



UNOBSTRUCTED FORWARD REACH

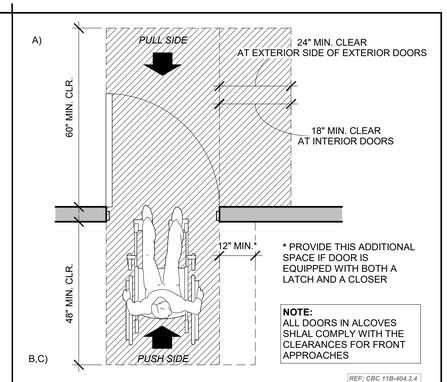


OBSTRUCTED HIGH FORWARD REACH

REF: CBC 11B-308.2

24 ACC. FORWARD REACH

A-901 SCALE: 1/2" = 1'-0"



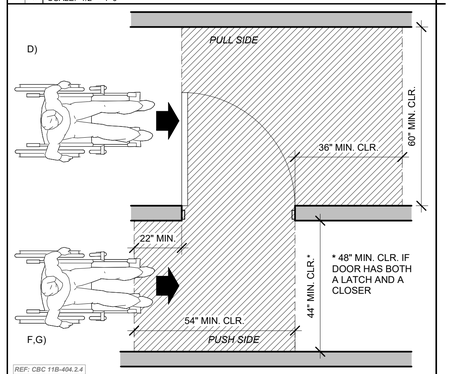
* PROVIDE THIS ADDITIONAL SPACE IF DOOR IS EQUIPPED WITH BOTH A LATCH AND A CLOSER

NOTE:
ALL DOORS IN ALCOVES SHLAL COMPLY WITH THE CLEARANCES FOR FRONT APPROACHES

REF: CBC 11B-404.2.4

11 FRONT APPROACH CLEARANCES

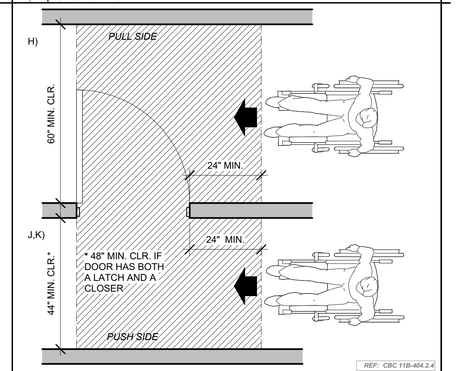
A-901 SCALE: 1/2" = 1'-0"



REF: CBC 11B-404.2.4

12 HINGE APPROACH CLEARANCES

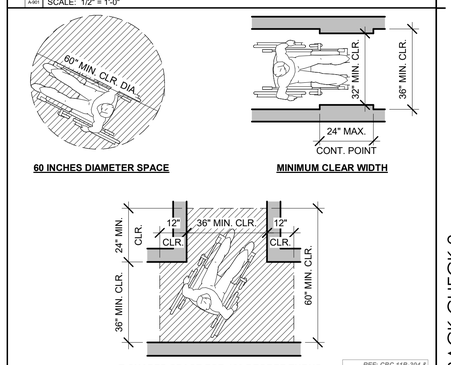
A-901 SCALE: 1/2" = 1'-0"



REF: CBC 11B-404.2.4

13 LATCH APPROACH CLEARANCES

A-901 SCALE: 1/2" = 1'-0"



60 INCHES DIAMETER SPACE

MINIMUM CLEAR WIDTH

T-SHAPED SPACE FOR 180 DEGREE TURNS

REF: CBC 11B-304 & 11B-403.5.1

14 TURNING SPACE

A-901 SCALE: 3/8" = 1'-0"

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LICENSED ARCHITECT — KATHRYN ANNE HICKS — 938079 — 2-28-27 RENEWAL DATE — STATE OF CALIFORNIA

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2555 S HALCYON RD, ARROYO GRANDE, CA

ACCESSIBILITY DETAILS - GENERAL

NO.	REVISION	DATE
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PROJECT MANAGER: KH
DRAWN BY: DK | CHECKED BY: KF
DATE: APRIL 23, 2026
PROJECT NUMBER: 0822-03-ED25
SHEET: A-901

DSA BACK CHECK 2

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Autodesk Docs://0822-03-ED25-Mesa Middle School Classroom/0822-03_Mesa Middle School - Science & SPED Classroom.rvt



PERMANENT SIGNAGE TO BE WALL MOUNTED 7'-0" AFF UNO ON SIGNAGE PLAN.

VISUAL CHARACTERS TO COMPLY WITH 11B-703.5.

PICTOGRAM TO COMPLY WITH 11B-703.6 AND 11B-703.7.

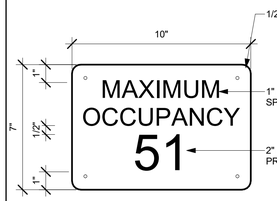
NOTE: REFER TO SPECIFICATION FOR REQUIRED NUMBER OF RECEIVERS TO BE PROVIDED.

REF CBC 11B-703

31 ASSISTIVE LISTENING SIGN

A902 SCALE: 3" = 1'-0"

ALL TEXT/GRAPHICS TO BE A PERMANENT PART OF THE SIGN



EVERY ROOM OR SPACE WITH AN OCCUPANT LOAD OF 50 OR MORE SHALL HAVE THE OCCUPANT LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY FROM THE ROOM OR SPACE.

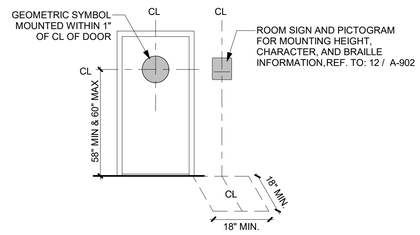
FOR ADDITIONAL ROOM SIGN INFORMATION REF. TO: 12 / A-902

REF: CBC 703
REF: CBC 1004.9

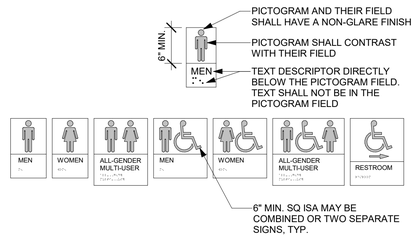
32 MAX OCCUPANT LOAD SIGN

A902 SCALE: 3" = 1'-0"

APPLICABLE SIGNAGE TO BE INSTALLED AT BOTH ACCESSIBLE AND NON-ACCESSIBLE RESTROOMS

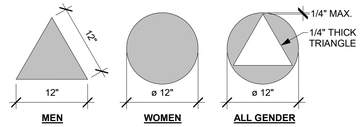


PICTOGRAM & ROOM SIGNS



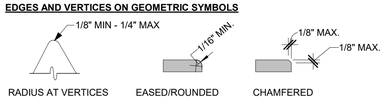
DOOR-MOUNTED GEOMETRIC SYMBOLS

PICTOGRAMS AND/OR LETTERING ARE NOT REQUIRED ON DOOR-MOUNTED SIGNAGE



GEOMETRIC SYMBOLS SHALL BE 1/4" THICK.
SYMBOLS SHALL CONTRAST WITH THE COLOR OF THE DOOR OR SURFACE ON WHICH THE SYMBOL IS MOUNTED.

EDGES AND VERTICES ON GEOMETRIC SYMBOLS



REF. 11B-703.7
REF 11B-703.4

23 RESTROOM SIGNS & SYMBOLS

A901 SCALE: 1" = 1'-0" ACC-INT-45_V1



SYMBOL PROPORTIONS

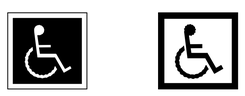
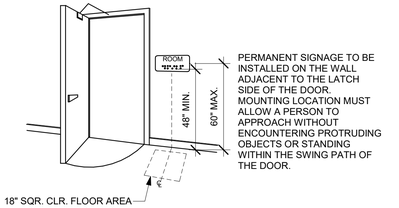


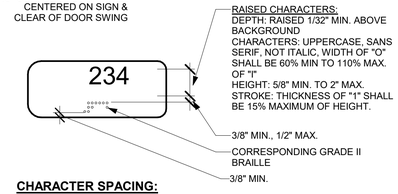
FIGURE 11B-703.7.2.1 INTERNATIONAL SYMBOL

REF: CBC 11B-703.7.2.1

24 INTL SYMBOL OF ACC.

A902 SCALE: 1 1/2" = 1'-0"





CHARACTER SPACING:

RECTANGULAR

18

1/8" MIN. TO 4 TIMES STROKE WIDTH MAX

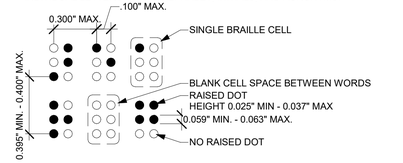
NON RECTANGULAR

74

1/16" MIN. TO 4 TIMES STROKE WIDTH MAX

BRAILLE

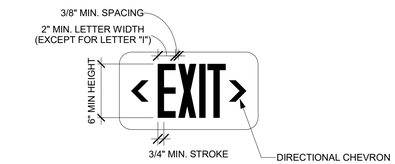
THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS.



REF. 11B-703

12 ROOM SIGNAGE

A902 SCALE: 3" = 1'-0"



CBC 1013.1 WHERE REQUIRED
Exits and exit access doors shall be marked by an approved exit sign readily visible from any direction of egress travel. The path of egress travel to exits and within exits shall be marked by readily visible exit signs to clearly indicate the direction of egress travel in cases where the exit or the path of egress travel is not immediately visible to the occupants. Intervening means of egress doors within exits shall be marked by exit signs. Exit sign placement shall be such that any point in an exit access corridor or exit passageway is within 100 feet (30 480 mm) or the listed viewing distance of the sign, whichever is less, from the nearest visible exit sign.

EXCEPTIONS:
1. Exit signs are not required in rooms or areas that require only one exit or exit access.
2. Main exterior exit doors or gates that are obviously and clearly identifiable as exits need not have exit signs where approved by the building official.
3. Exit signs are not required in occupancies in Group U and individual sleeping units or dwelling units in Group R-1, R-2 or R-3 or R-3.1.
4. Exit signs are not required where inmates are housed, or held in dayrooms, sleeping rooms or dormitories in occupancies in Group I-3.
5. In occupancies in Groups A-4 and A-5, exit signs are not required on the seating side of vomitories or openings into seating areas where exit signs are provided in the concourse that are readily apparent from the vomitories. Egress lighting is provided to identify each vomitory or opening within the seating area in an emergency.

CBC 1013.5 INTERNALLY ILLUMINATED SIGNS
Electrically powered, self-luminous and photoluminescent exit signs shall be listed and labeled in accordance with UL 924 and shall be installed in accordance with the manufacturer's instructions and Chapter 27. Exit signs shall be illuminated at all times.

CBC 1013.6 EXTERNALLY ILLUMINATED EXIT SIGNS
Externally illuminated exit signs shall comply with Sections 1013.6.1 through 1013.6.3.

CBC 1013.6.1 GRAPHICS
Every exit sign and directional exit sign shall have plainly legible letters not less than 6 inches (152 mm) high with the principal strokes of the letters not less than 3/4 inch (19.1 mm) wide. The word "EXIT" shall have letters having a width not less than 2 inches (51 mm) wide, except the letter "I," and the minimum spacing between letters shall be not less than 3/8 inch (9.5 mm). Signs larger than the minimum established in this section shall have letter widths, strokes and spacing in proportion to their height.

The word "EXIT" shall be in high contrast with the background and shall be clearly discernible when the means of exit sign illumination is or is not energized. If a chevron directional indicator is provided as part of the exit sign, the construction shall be such that the direction of the chevron directional indicator cannot be readily changed.

14 ILLUMINATED EXIT SIGN

A511 A902 SCALE: 1" = 1'-0"

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CONSULTANT

MESA MS SPED SCIENCE BUILDING
2555 S HALCYON RD, ARROYO GRANDE, CA

ACCESSIBILITY DETAILS - SIGNAGE

NO.	REVISION	DATE
1		
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PROJECT MANAGER
KH

DRAWN BY DK | **CHECKED BY** KF

DATE
APRIL 23, 2026

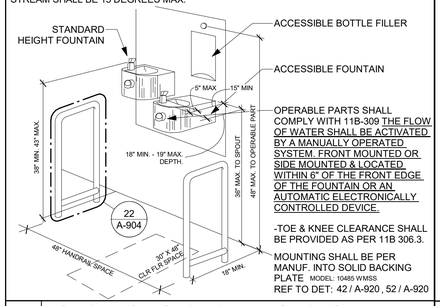
PROJECT NUMBER
0822-03-ED25

SHEET
A-902

DSA BACK CHECK 2

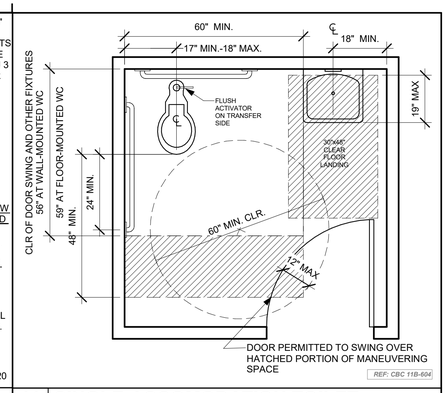
4/21/2026 10:34:52 AM
Autodesk Docs://0822-03-ED25-Mesa Middle School Classroom/0822-03_Mesa Middle School - Science & SPED Classroom.rvt

THE SPOUT SHALL PROVIDE A FLOW OF WATER 2" HIGH MIN. AND SHALL BE LOCATED 5" MAX. FROM THE FRONT OF THE UNIT. THE ANGLE OF THE WATER STREAM SHALL BE MEASURED HORIZONTALLY RELATIVE TO THE FRONT FACE OF THE UNIT. WHERE SPOUTS ARE LOCATED LESS THAN 2 INCHES FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER STREAM SHALL BE 30 DEGREES MAX. WHERE SPOUTS ARE LOCATED BETWEEN 3 INCHES AND 5 INCHES MAX. FROM THE FRONT ON THE UNIT THE ANGLE OF THE WATER STREAM SHALL BE 15 DEGREES MAX.



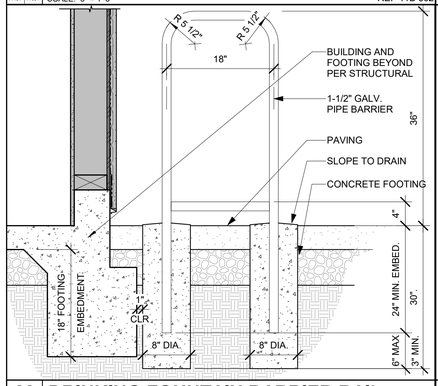
21 HI-LO DRINKING FOUNTAIN & FILLER

A-101 A-904 SCALE: 3" = 1'-0"



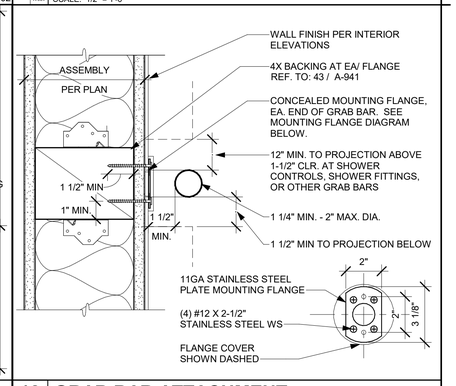
11 SINGLE-ACCOMODATION TOILET

A-904 SCALE: 1/2" = 1'-0"



22 DRINKING FOUNTAIN BARRIER RAIL

A-101 A-904 SCALE: 1" = 1'-0"



12 GRAB BAR ATTACHMENT

A-904 A-904 SCALE: 3" = 1'-0"

	AGE GROUP	ADULT
A	TOILET CL FROM WALL	17"-18"
B	TOILET SEAT HEIGHT	17"-19"
C	TOP OF GRAB BAR GRIPPING SURFACE	33"-36"
D1	FURTHEST TOILET PAPER IN FRONT OF TOILET	7"-9" AT CL
D2	DISPENSER HEIGHT	19"-24"
E	SANITARY NAPKIN DISPOSAL (HIGHEST OPERABLE PART A.F.F.)	19" MIN.
F	MIRROR - BOT. OF REFLECTIVE SURFACE A.F.F.	40" MAX. WHEN ABOVE SINK OR COUNTERTOP 35" MAX. NO LAV.
G	LAVATORY/SINK RIM HEIGHT	34" MAX.
H.1	LAVATORY KNEE CLEARANCE	17" MIN. AT 8" DEPTH 29" MIN. AT APRON
H.2	SINK KNEE CLEARANCE	
J	URINAL LIP HEIGHT	17" MAX.
K	URINAL FLUSH HANDLE HEIGHT	44" MAX.

	AGE GROUP	ADULT
L	LOW DRINKING FOUNTAIN APPROACH	PER 11B-306
	SPOUT HEIGHT AND LOCATION FROM EDGE OF UNIT INCLUDING BUMPERS	36" MAX. A.F.F & 5" MAX. FROM FRONT EDGE OF UNIT
	DRINKING FOUNTAIN OPERABLE PARTS FROM FRONT EDGE OF THE UNIT	6" MAX.
M	DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN. CLR.
P	DISPENSERS/OPERABLE PARTS	40" MAX.
Q	REACH RANGE - FRONT & SIDE APPROACH	48" MAX.
R	BOTTOM OF OPENING/OUTLET	19" MIN.
S	TOE CLEARANCE AT TOILET PARTITION	9" MIN.
T	TOILET FLUSH CONTROL HEIGHT	

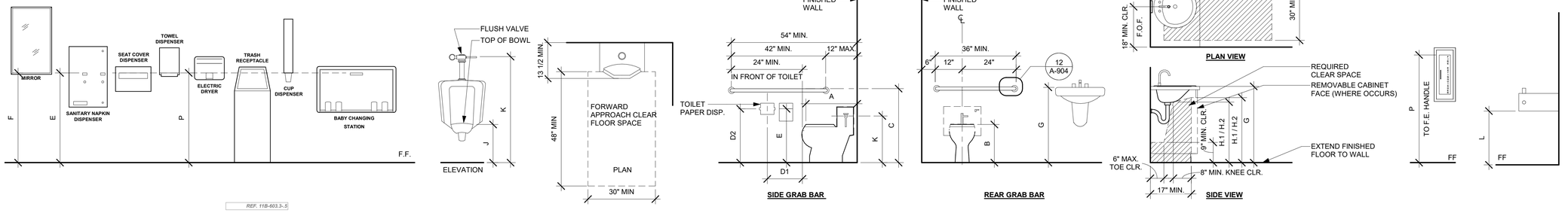
NOTES:
1. HOT WATER AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
2. THE DIP OF THE OVERFLOW SHALL NOT BE CONSIDERED IN DETERMINING KNEE & TOE CLEARANCES.
3. SINK SHALL BE 6-1/2" DEEP MAX.
4. OPERABLE PARTS OF SOAP OR OTHER DISPENSERS LOCATED ON THE BACK WALL OF THE LAVATORY ARE WITHIN REACH RANGE 40FfI MAXIMUM AFF AND 17fI-19fI MAXIMUM DEEP DEPENDENT UPON TOE CLEARANCE BELOW PER CBC.
5. DISPENSERS MOUNTED ON THE GRAB BAR SIDE OF ACCESSIBLE TOILET SHALL NOT PROJECT MORE THAN 3-1/2" FROM FACE OF WALL, NOR BE LOCATED CLOSER THAN 1-1/2" CLEAR OF BOTTOM OF GRAB BAR.

FAUCET ACCESSIBILITY NOTES:
(CONTROLS FOR FAUCETS SHALL COMPLY WITH CBC 11B-309)

1. FAUCETS CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST.
2. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GRATER THAN 5 POUND FORCE (22.2N). LEVER-OPERATED, PUSH-TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF-CLOSINGVALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.

LAVATORY:
A FIXED BOWL OR BASIN WITH RUNNING WATER AND DRAINPIPE, AS IN A TOILET OR BATHING FACILITY, FOR WASHING OR BATHING PURPOSES.

SINK:
A FIXED BOWL OR BASIN WITH RUNNING WATER AND DRAINPIPE, AS IN A KITCHEN OR LAUNDRY, FOR WASHING DISHES, CLOTHING, ETC.



46 FIXTURE AND ACCESSORIES MOUNTING HEIGHTS AND CLEARANCES

A-904 SCALE: 1/2" = 1'-0"

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2-28-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

MESA MS SPED SCIENCE BUILDING
2555 S HALCYON RD, ARROYO GRANDE, CA

ACCESSIBILITY DETAILS - RESTROOM AND PLUMB. FIXTURES

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PROJECT MANAGER
KH

DRAWN BY	CHECKED BY
DK	KF

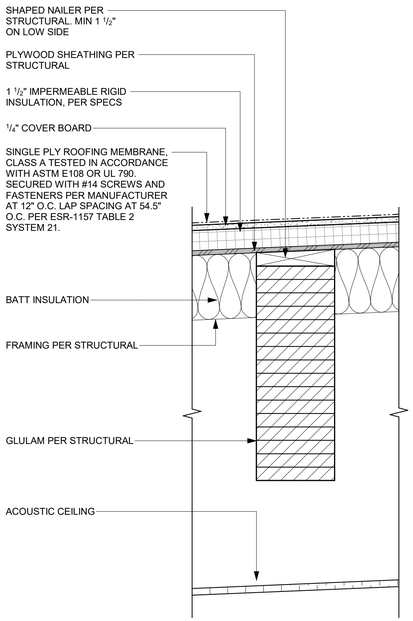
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SHEET
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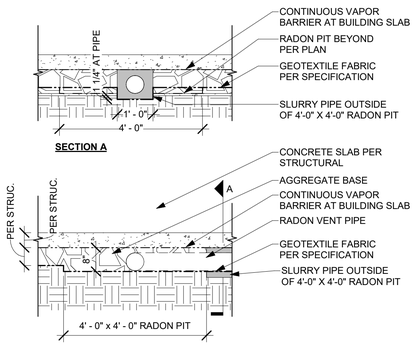
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ROOF COVERING SHALL BE CLASS-A IN ACCORDANCE WITH CBC 705A. REFER TO ESR-1157. PROVIDE TABLE 1 - SYSTEM 2.

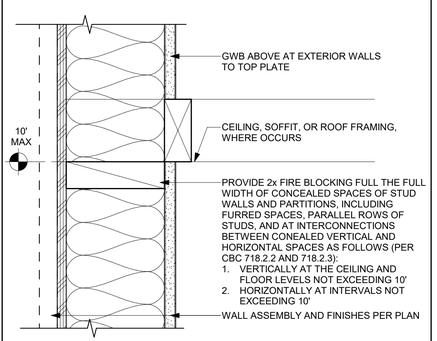
22 ROOF ASSEMBLY

A911 SCALE: 1 1/2" = 1'-0"



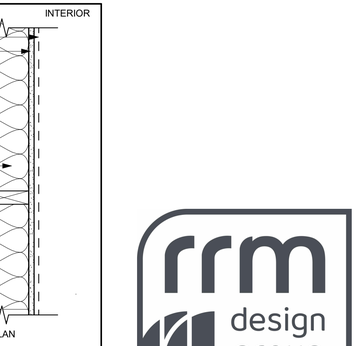
23 RADON PIT

A102 A911 SCALE: 1/2" = 1'-0"



24 FIRE BLOCKING

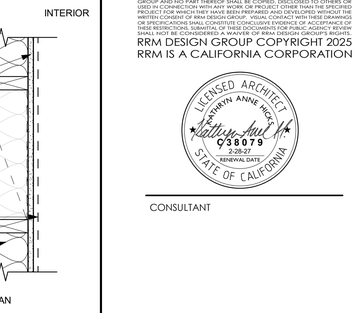
A911 SCALE: 3" = 1'-0"



NOTE:
WHERE REQ. PROVIDE FIRE BLOCKING IN CONCEALED COMBUSTIBLE LOCATIONS IN ACCORDANCE WITH ***CBC 718.1 & 718.2.*** REFER TO DETAIL:

A6 TYPE A - EXTERIOR NON-RATED

A911 SCALE: 1 1/2" = 1'-0"



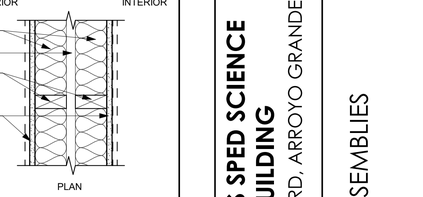
NOTE:
ONE LAYER 5/8" ACOUSTIC GYPSUM PANEL APPLIED VERTICALLY ON ONE SIDE. ATTACH PER MANUFACTURER'S RECOMMENDATION. GYPSUM BOARD SHALL RUN FROM FLOOR TO TOP PLATE UNLESS NOTED OTHERWISE.
- WATER RESISTANT GYPSUM BOARD AT WET LOCATIONS PER FINISH PLANS
- CEMENT BOARD AT TILE LOCATIONS PER FINISH PLANS

NOTE:
WHERE REQ. PROVIDE FIRE BLOCKING IN CONCEALED COMBUSTIBLE LOCATIONS IN ACCORDANCE WITH ***CBC 718.1 & 718.2.*** REFER TO DETAIL: 24 / A-911

B6 TYPE B - INTERIOR NON-RATED

A911 SCALE: 1 1/2" = 1'-0"

GA FILE NO. WP 5512
1-HR FIRE
50 TO 54 STC



FIRE DESIGN:
ONE LAYER 5/8" TYPE X GYPSUM WALLBOARD OR GYPSUM VENEER BASE APPLIED PARALLEL OR AT RIGHT ANGLES TO EACH SIDE OF DOUBLE ROW OF 2 × 4 WOOD STUDS 16" O.C. ON SEPARATE PLATES WITH 2" TYPE W SCREWS 7" O.C. TWO LAYERS 3-1/2" UNFACED GLASS FIBER INSULATION FRICTION FIT IN STUD CAVITY.

JOINTS STAGGERED 16" ON OPPOSITE SIDES. HORIZONTAL BRACING REQUIRED AT MID-HEIGHT. (LOAD-BEARING)

SOUND DESIGN:
SOUND TESTED WITH PLATES SPACED 1" APART.

C4 TYPE C - INTERIOR SOUND RATED

A911 SCALE: 1 1/2" = 1'-0"

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DK	KF

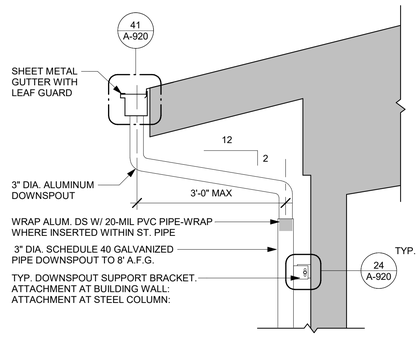
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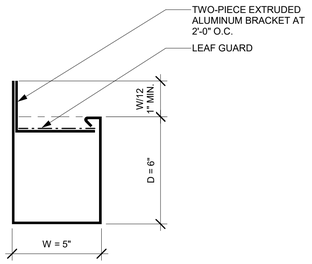
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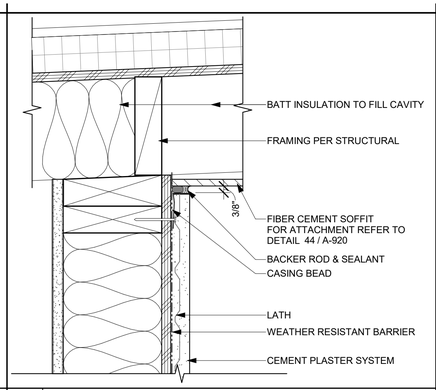
51 TYPICAL GUTTER TO DOWNSPOUT

A-920 SCALE: 3/4" = 1'-0"



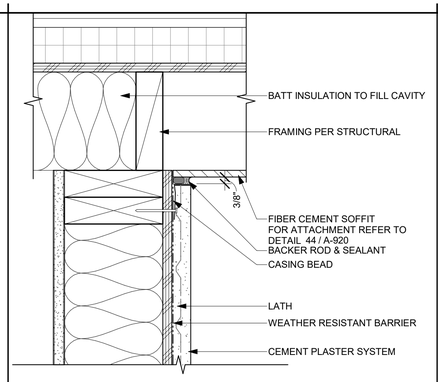
41 GUTTER PROFILE

A-920 A-920 SCALE: 3" = 1'-0"



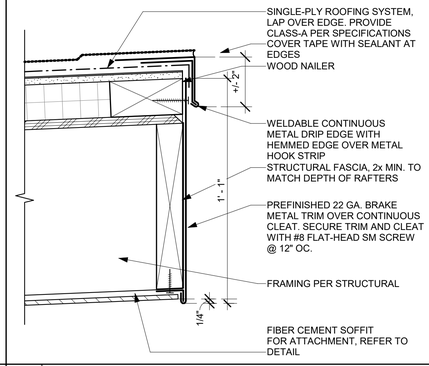
31 EXTERIOR WALL - TOP AT SLOPE

A-312 A-920 SCALE: 3" = 1'-0"



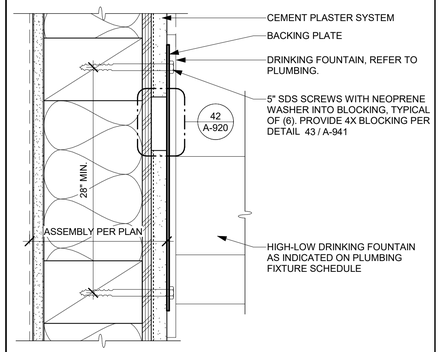
21 EXTERIOR WALL - TOP

A-311 A-920 SCALE: 3" = 1'-0"



11 EAVE - HIGH SIDE

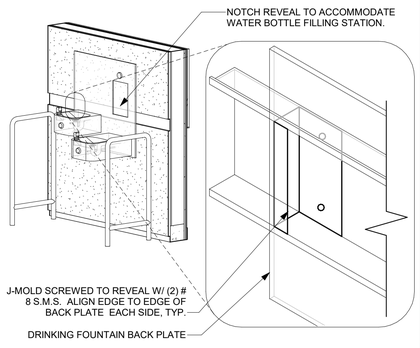
A-121 A-920 SCALE: 3" = 1'-0"



52 DRINKING FOUNTAIN BACKING

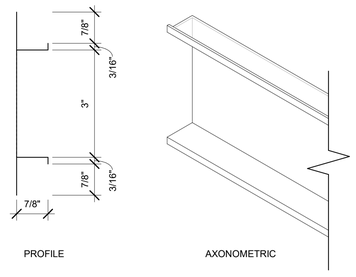
A-920 SCALE: 3" = 1'-0"

NOTE: CONDITION HAPPENS ON BOTH SIDES OF BACK PLATE



42 REVEAL AT DRINKING FOUNTAIN

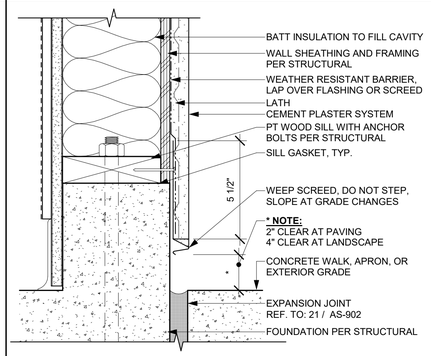
A-920 A-920 SCALE: 6" = 1'-0"



REVEAL AT CEMENT PLASTER

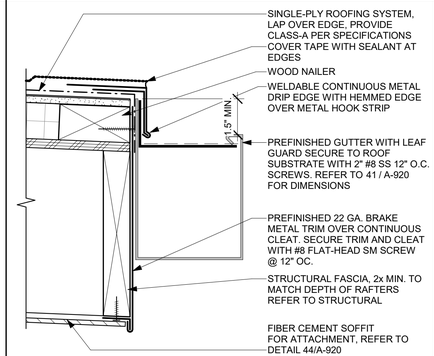
32 REVEAL PROFILE

A-920 A-920 SCALE: 6" = 1'-0"



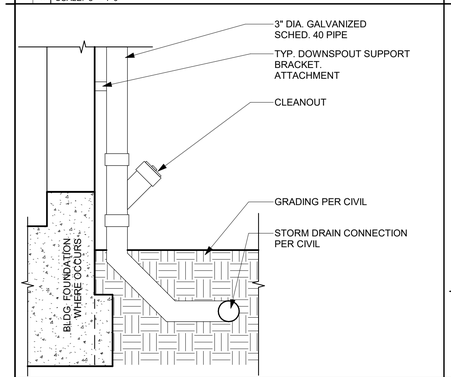
22 EXTERIOR WALL - BASE

A-321 A-920 SCALE: 3" = 1'-0"



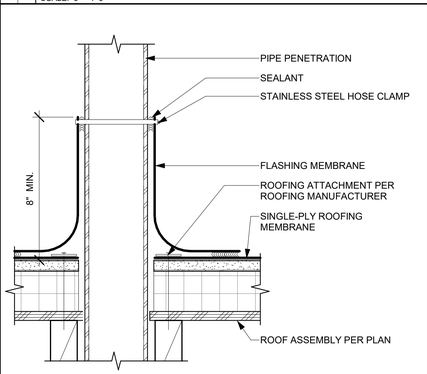
12 EAVE - LOW SIDE

A-121 A-920 SCALE: 3" = 1'-0"



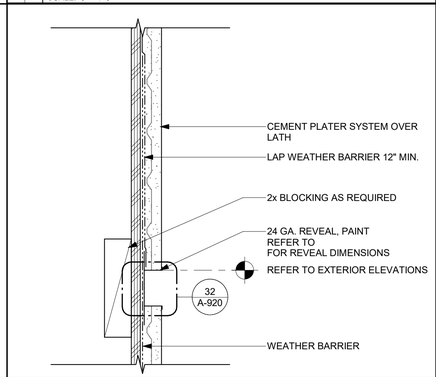
53 DOWNSPOUT TO STORM DRAIN

A-312 A-920 SCALE: 1" = 1'-0"



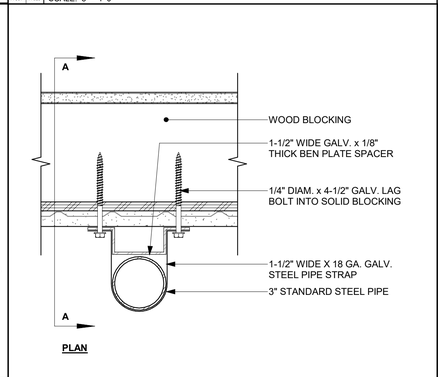
43 PIPE FLASHING

A-920 A-920 SCALE: 3" = 1'-0"



33 METAL REVEAL AT PLASTER WALL

A-920 SCALE: 3" = 1'-0"



PLAN

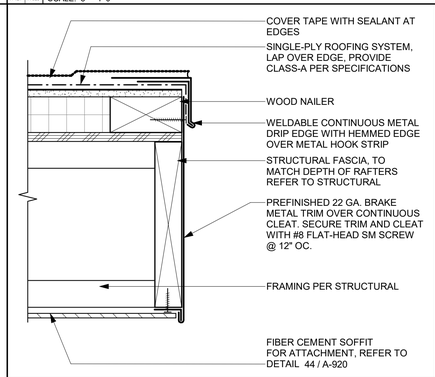
SECTION A-A

REFER TO DETAIL 53 / A-920 FOR TERMINATION AT STORM DRAIN

REFER TO CIVIL FOR STORM DRAIN CONNECTION

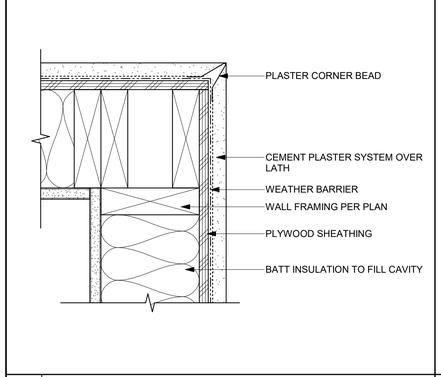
24 DOWNSPOUT ATTACHMENT

A-121 A-920 SCALE: 3" = 1'-0"



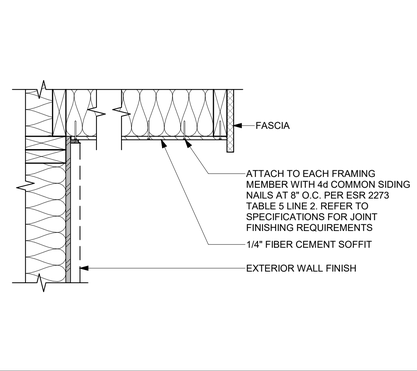
13 RAKE

A-121 A-920 SCALE: 3" = 1'-0"



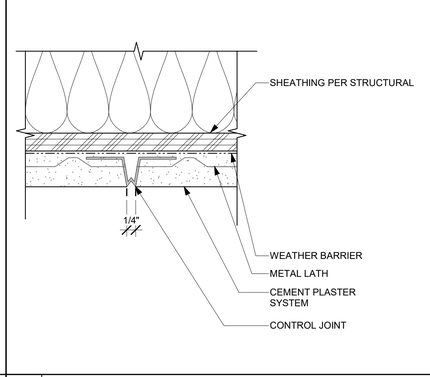
54 CEMENT PLASTER - OUTSIDE CORNER

A-920 SCALE: 3" = 1'-0"



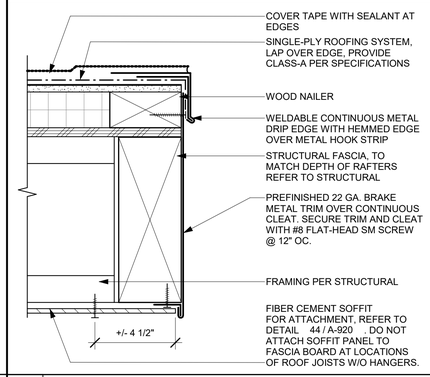
44 SOFFIT ATTACHMENT - FIBER CEMENT

A-111 A-920 SCALE: 1 1/2" = 1'-0"



34 CONTROL JOINT (STUCCO)

A-321 A-920 SCALE: 6" = 1'-0"



14 RAKE @ JOIST W/O HANGER

A-121 A-920 SCALE: 3" = 1'-0"

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EXTERIOR DETAILS

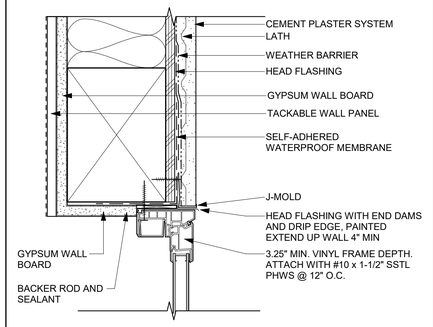
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NO.	REVISION	DATE

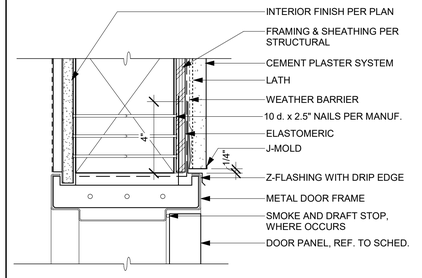
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DATE APRIL 23, 2026
PROJECT NUMBER 0822-03-ED25
SHEET A-920

4/21/2026 10:34:55 AM
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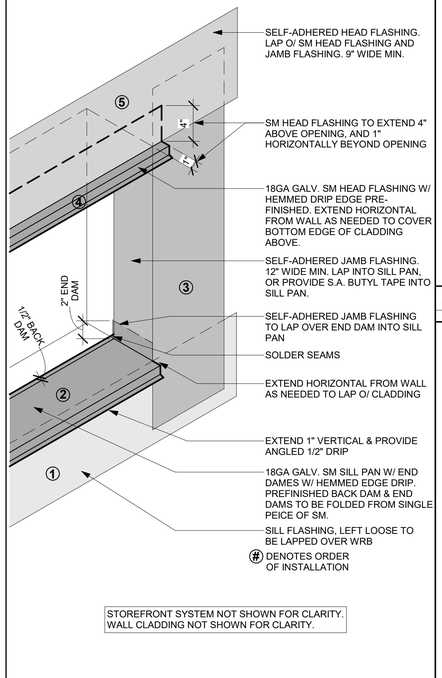
NOTE:
MANUFACTURED VINYL WINDOWS PER SPEC. 08 5313.



21 WINDOW HEAD
A312 A301 SCALE: 3" = 1'-0"



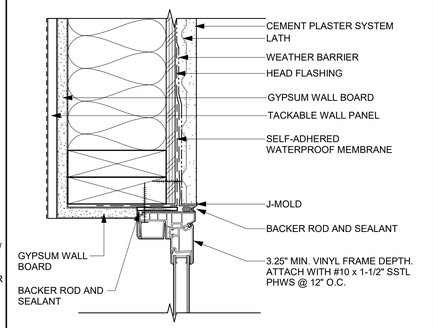
11 DOOR HEAD
A301 SCALE: 3" = 1'-0"



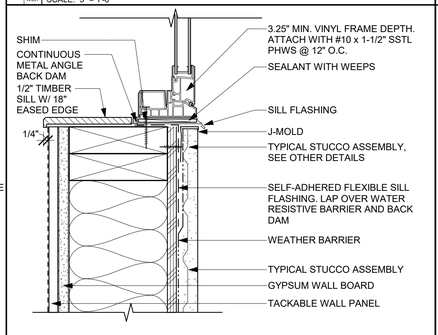
STOREFRONT SYSTEM NOT SHOWN FOR CLARITY.
WALL CLADDING NOT SHOWN FOR CLARITY.

33 STOREFRONT FLASHING
A301 SCALE: 1 1/2" = 1'-0"

NOTE:
MANUFACTURED VINYL WINDOWS PER SPEC. 08 5313.

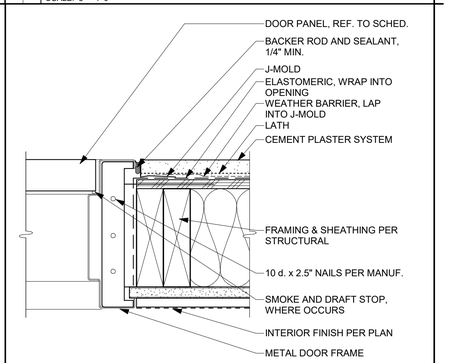


22 WINDOW JAMB
A301 SCALE: 3" = 1'-0"

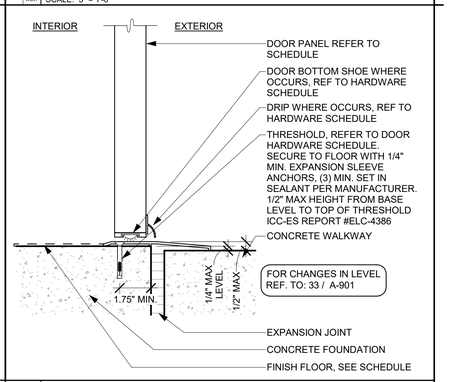


NOTE:
MANUFACTURED VINYL WINDOWS PER SPEC. 08 5313.

23 WINDOW SILL
A301 SCALE: 3" = 1'-0"

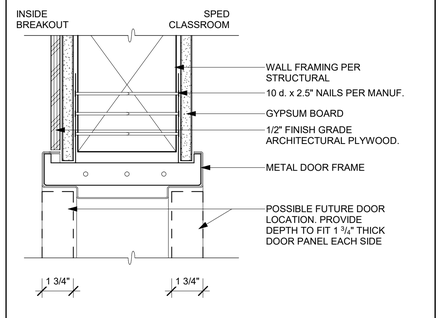


12 DOOR JAMB
A301 SCALE: 3" = 1'-0"



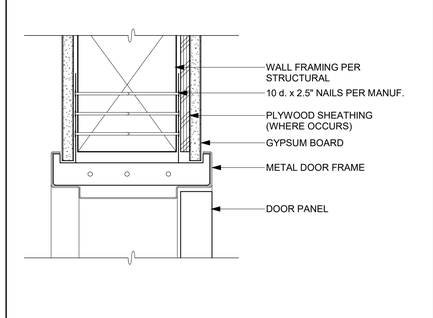
13 DOOR THRESHOLD
A301 SCALE: 3" = 1'-0"

HEAD/JAMB SIMILAR

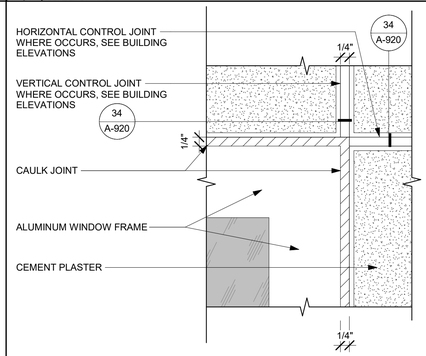


34 INTERIOR DOOR - DOUBLE RABBET
A311 A301 SCALE: 3" = 1'-0"

HEAD/JAMB SIMILAR



24 INTERIOR DOOR HEAD/JAMB
A301 SCALE: 3" = 1'-0"



14 ELEVATION @ TYP. WINDOW CORNER
A301 SCALE: 6" = 1'-0"

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938079
2-28-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

MESA MS SPED SCIENCE BUILDING
2555 S HALCYON RD, ARROYO GRANDE, CA

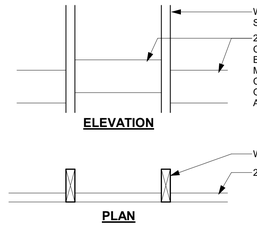
DOOR & WINDOW DETAILS

NO.	REVISION	DATE

PROJECT MANAGER
KH
DRAWN BY DK
CHECKED BY KF
DATE
APRIL 23, 2026
PROJECT NUMBER
0822-03-ED25
SHEET
A-931

DSA BACK CHECK 2

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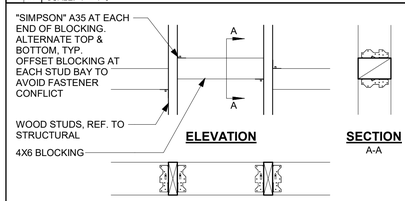


USE: #10 WOOD SCREW MIN. TO ATTACH ACCESSORIES TO BLOCKING, U.O.N.
FOR: MIRRORS, FLAT SIGNS, TACKBOARDS, CHALKBOARDS, MARKER BOARDS, BULLETIN BOARDS, FRAMED ARTWORK.

NOTES:
1. DO NOT CUT OR NOTCH STUDS TO INSTALL BLOCKING
2. VERIFY LENGTH, HEIGHT, QUANTITY, AND LOCATION FOR BLOCKING WITH ARCHITECTURAL DETAILS AND ACCESSORY MANUFACTURER
3. EXTEND BLOCKING TO FIRST STUD PAST END OF ACCESSORY
4. MAXIMUM FORCE ON BLOCK OF 150 POUNDS OUT OF PLAN, 150 POUNDS VERTICAL LOADING

42 TYP. 2X BLOCKING

A501 | A941 SCALE: 1" = 1'-0"



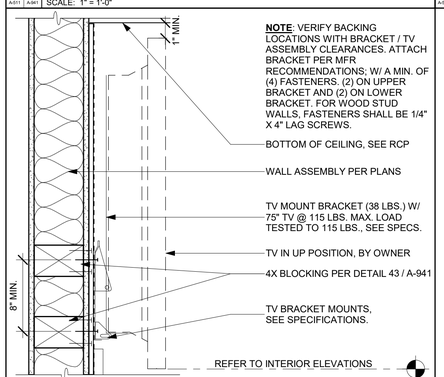
USE: #12 WOOD SCREW MIN. TO ATTACH ACCESSORIES TO BLOCKING, U.O.N.
FOR: TOILET & BATH ACCESSORIES, DOOR STOPS, DOOR HOLDERS, CABINETS, DISPLAY CABINETS, TOILET PARTITIONS

USE: # 14 WOOD SCREW MIN. OR 1/4" DIAMETER WOOD SCREW MIN. TO ATTACH ACCESSORIES TO BLOCKING, U.O.N.
FOR: HANDRAILS, GRAB BARS, SHOWER SEATS, SHELF BRACKETS, COUNTERTOP BRACKETS, URINAL SCREENS, WATER HEATER STRAPS, SINK BRACKETS, ETC.

NOTES:
1. DO NOT CUT OR NOTCH STUDS TO INSTALL BLOCKING
2. VERIFY LENGTH, HEIGHT, QUANTITY, AND LOCATION FOR BLOCKING WITH ARCHITECTURAL DETAILS AND ACCESSORY MANUFACTURER
3. EXTEND BLOCKING TO FIRST STUD PAST END OF ACCESSORY
4. REFER TO STRUCTURAL DETAIL S3/S-502 FOR MAXIMUM LOAD LIMITS ON BLOCKING

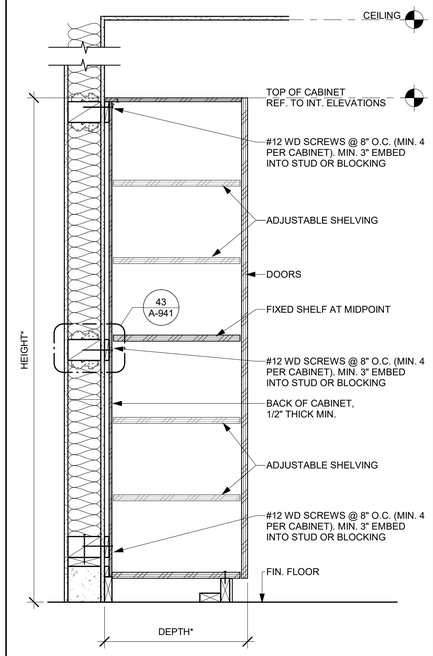
43 TYP. 4X BLOCKING

A501 | A941 SCALE: 1" = 1'-0"



44 TV MOUNT AND BLOCKING

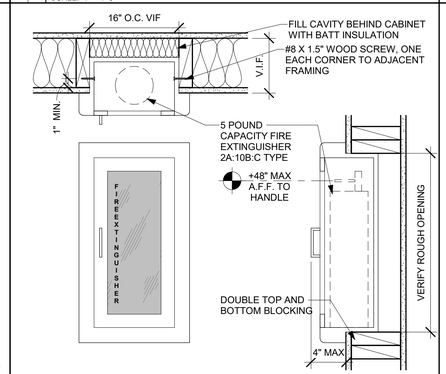
A501 | A941 SCALE: 1 1/2" = 1'-0"



NOTE:
*PER INTERIOR ELEVATIONS
WHERE CABINET EXCEEDS 8'-0" IN HEIGHT, PROVIDE BLOCKING AND CONNECTION AT FOUR PLACES, SPACED EQUALLY

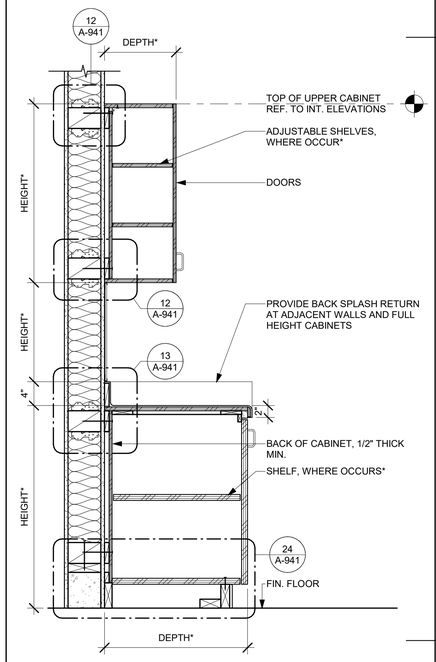
32 CABINET SECTION - FULL HEIGHT

A501 | A941 SCALE: 1" = 1'-0"



33 INT. FIRE EXTINGUISHER CABINET

A501 | A941 SCALE: 1 1/2" = 1'-0"

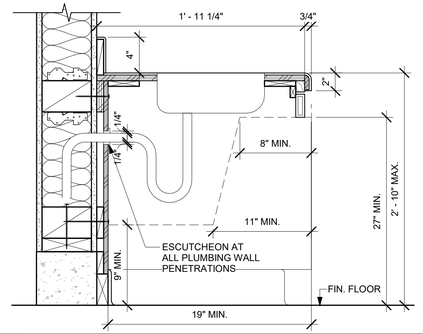


NOTE:
*PER INTERIOR ELEVATIONS

22 CABINET SECTION - UPPER & LOWER

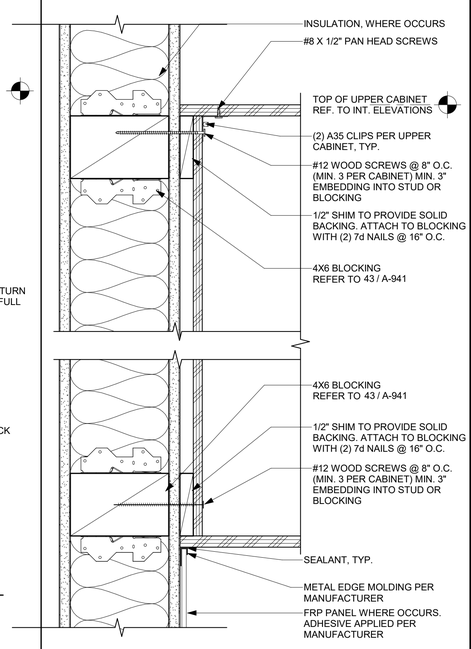
A501 | A941 SCALE: 1" = 1'-0"

NOTES: HOT WATER AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.



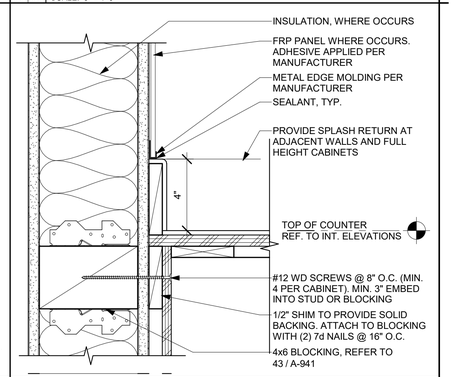
23 ACC. CABINET DETAIL

A501 | A941 SCALE: 1 1/2" = 1'-0"



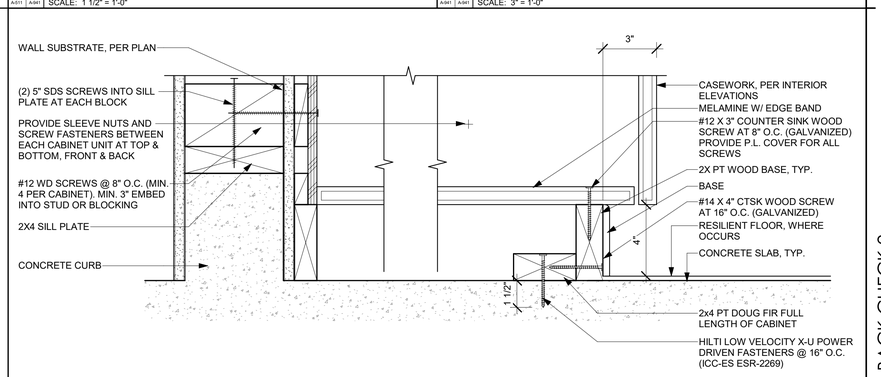
12 CABINET DETAIL - UPPER

A941 | A941 SCALE: 3" = 1'-0"



13 CABINET DETAIL - COUNTER

A941 | A941 SCALE: 3" = 1'-0"



24 CABINET DETAIL - BASE

A941 | A941 SCALE: 3" = 1'-0"

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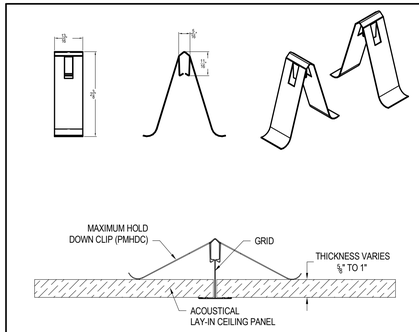
INTERIOR DETAILS

NO.	REVISION	DATE

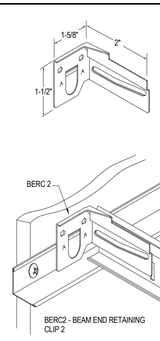
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DRAWN BY DK | **CHECKED BY** KF
DATE APRIL 23, 2026
PROJECT NUMBER 0822-03-ED25
SHEET A-941

DSA BACK CHECK 2

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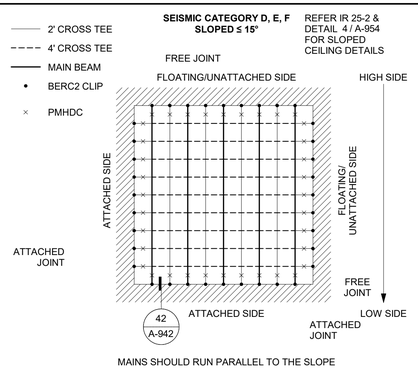


51 MAXIMUM HOLD DOWN CLIP (PMHDC)
A562 | A562 NTS



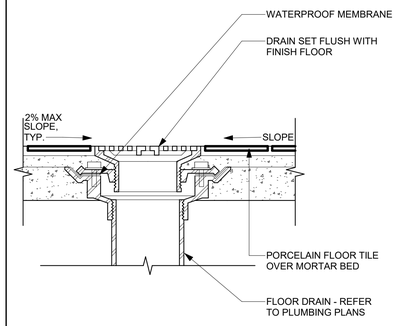
REFER TO 4 / A-956 FOR ESR-1308 DETAILS
PROVIDE WALL SHIM(S) WHERE PERIMETER TRACK IS NOT 90 DEGREES TO ADJACENT WALL SURFACE

41 BERC2 CLIP
A562 | A562 NTS

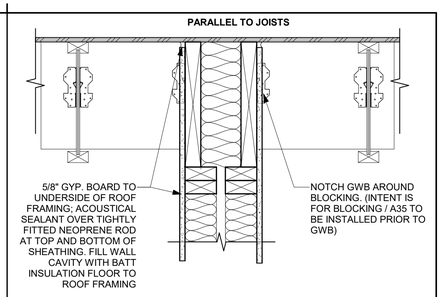


MAINS SHOULD RUN PARALLEL TO THE SLOPE

31 SLOPED CEILING LAYOUT
A111 | A562 SCALE: 1/8" = 1'-0"



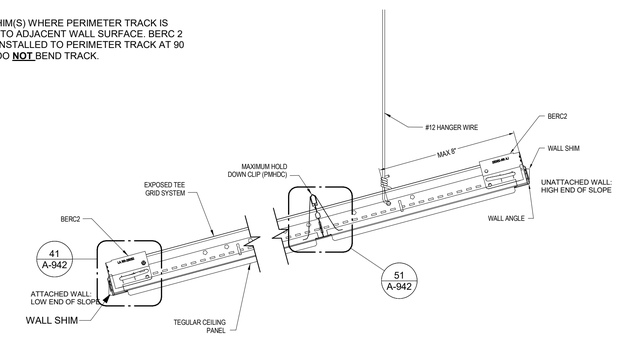
21 FLOOR DRAIN
A512 | A562 SCALE: 3" = 1'-0"



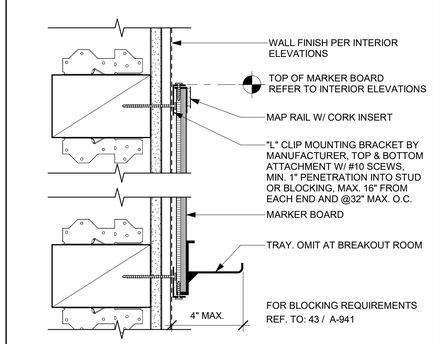
NOTE:
1. ANY PENETRATIONS THROUGH ACOUSTICALLY INSULATED WALLS TO BE SEALED ALL AROUND BOTH SIDE TO FULL DEPTH OF DRYWALL
2. OUTLET BOXES IN ACOUSTICALLY INSULATED WALL TO HAVE ACOUSTICAL BACKING PAD; LOWRY'S OUTLET BOX PAD OR EQUAL
3. REFER TO STRUCTURAL FOR FRAMING INFORMATION (32/S-511)

11 ACOUSTIC WALL TRANSITION AT CEILING
A311 | A562 SCALE: 1 1/2" = 1'-0"

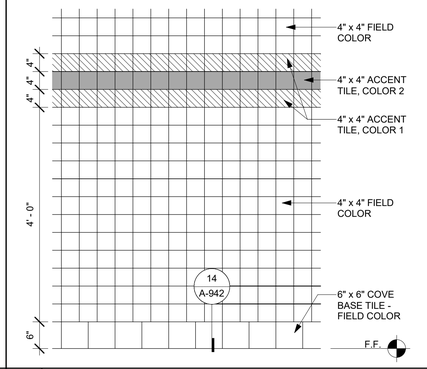
NOTE:
PROVIDE WALL SHIM(S) WHERE PERIMETER TRACK IS NOT 90 DEGREES TO ADJACENT WALL SURFACE. BERC 2 CLIP(S) MUST BE INSTALLED TO PERIMETER TRACK AT 90 DEGREES ONLY. DO **NOT** BEND TRACK.



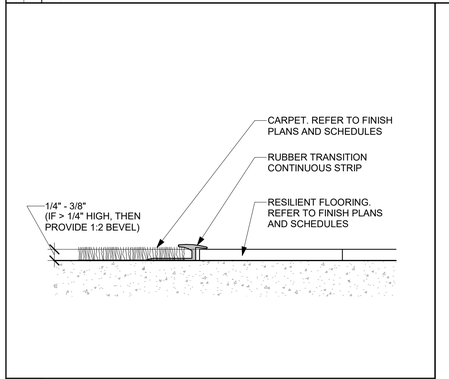
42 SLOPED CEILING AT PERIMETER
A562 | A562 NTS



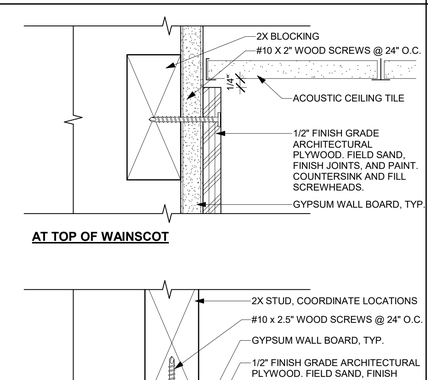
22 MARKER BOARD
A311 | A562 SCALE: 3" = 1'-0"



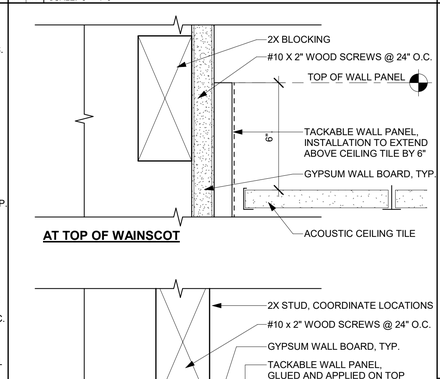
12 TILE WAINSCOT PATTERN
A512 | A562 SCALE: 3/4" = 1'-0"



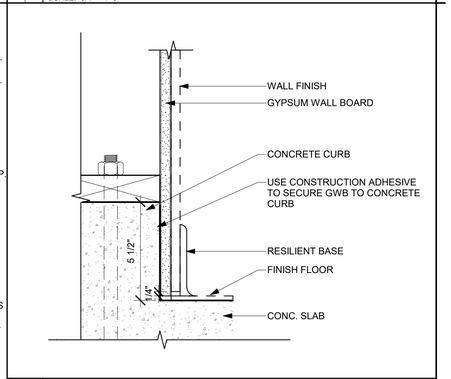
43 CARPET TO LVT REDUCER
A103 | A562 SCALE: 6" = 1'-0"



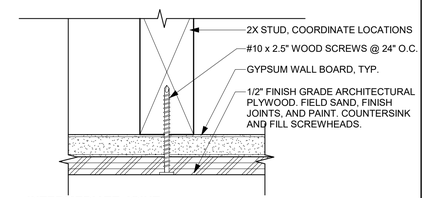
AT TOP OF WAINSCOT



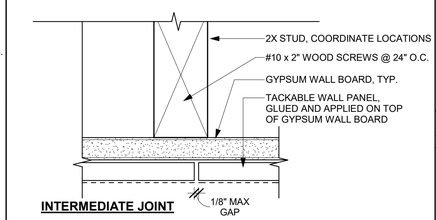
AT TOP OF WAINSCOT



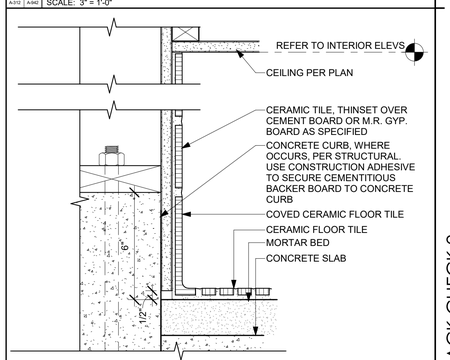
13 BASE - INTERIOR - TYPICAL
A312 | A562 SCALE: 3" = 1'-0"



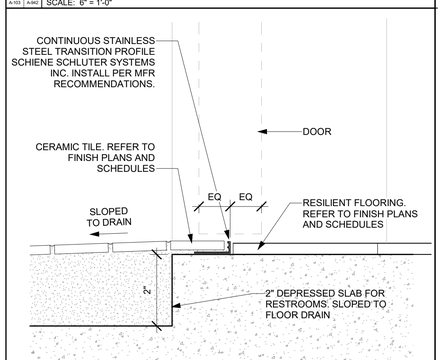
INTERMEDIATE JOINT



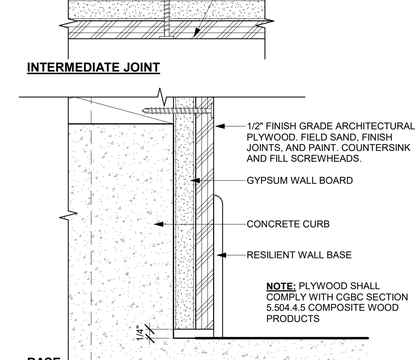
INTERMEDIATE JOINT



14 BASE - INTERIOR - CERAMIC TILE
A312 | A562 SCALE: 3" = 1'-0"

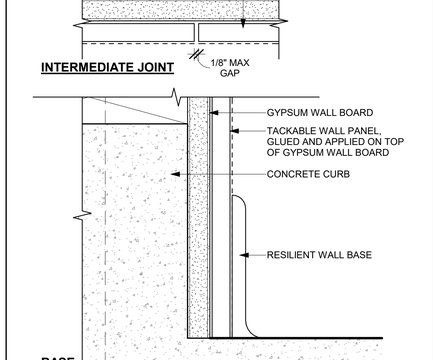


44 CERAMIC TILE TO LVT REDUCER
A103 | A562 SCALE: 6" = 1'-0"



BASE

34 FINISHED PLYWOOD WALL APPLICATION
A311 | A562 SCALE: 6" = 1'-0"



BASE

24 TACKABLE WALL PANEL
A311 | A562 SCALE: 6" = 1'-0"

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CONSULTANT

MESA MS SPED SCIENCE BUILDING
2555 S HALCYON RD, ARROYO GRANDE, CA

INTERIOR DETAILS

NO.	REVISION	DATE

PROJECT MANAGER
KH

DRAWN BY DK | **CHECKED BY** KF

DATE
APRIL 23, 2026

PROJECT NUMBER
0822-03-ED25

SHEET
A-942

DSA BACK CHECK 2

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ALL NOTES AND DETAILS ON SHEETS A-951 THROUGH A-956 ARE FROM DSA IR 25-2 REVISED 01/17/25 UNDER 2022 CBC

SUSPENDED LAY-IN PANEL CEILING: 2022 CBC

1. CEILING SYSTEM GENERAL NOTES

1.01 Ceiling system components shall comply with ASTM C635 and Section 5.1 of ASTM E580.

1.02 The ceiling grid system shall 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:	ARMSTRONG
Product Name:	PRELUDE XL WITH SEISMIC RX SUSPENSION SYSTEM
Evaluation Report Number:	ICC ESR 1308
Main Runner Part, Model, or Catalog Number:	7301
Cross Runner Part, Model, or Catalog Number:	XL7341

1.04 Seismic Wall Clip:

Manufacturer's Model:	BERC 2 CLIP

1.05 Ceiling panels shall not support any luminaires, air terminals, or devices.

1.06 For acoustical tile panels of any material other than mineral or glass fiber, a ¾" clearance shall be provided between the panel and the wall on the sides of the ceiling free to slip. Clearance between ceiling grid runners and walls shall comply with the details on these drawings regardless of ceiling tile material.

2. MATERIALS

2.01 Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641. Wire shall be #12 gauge (0.106" diameter) with soft temper and minimum ultimate tensile strength = 70 ksi.

2.02 Galvanized sheet steel (including that used for metal stud compression struts) shall conform to ASTM A653, or other equivalent sheet steel listed in Section A3.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members, (AISI S100). Material 43 mil (18 gauge) thick and lighter shall have minimum yield strength of 33 ksi. Material 54 mil (16 gauge) thick and heavier shall have a minimum yield strength of 50 ksi.

2.03 Electrical metallic tube (EMT) shall conform to ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength of 30 ksi and minimum ultimate strength of 48 ksi.

3. ATTACHMENT OF HANGER AND BRACING WIRES

3.01 All ceiling hanger and bracing wires shall be separated at least 6 inches from all unbraced ducts, pipes, conduit, etc.

3.02 Hanger and bracing wires shall not attach to or bend around obstructions including but not limited to piping, ductwork, conduit, and equipment.

3.03 Hanger wires that are more than one (horizontal) in six (vertical) out of plumb shall have counter-sloping wires.

Detail Title:	REV: 09/21/2015	Detail No.
CEILING NOTES	REV: 03/2022	1.00
	REV: 11/2023	

SUSPENDED LAY-IN PANEL CEILING: 2022 CBC

3.04 Slack safety wires shall be considered hanger wires for installation and testing requirements.

3.05 Hanger and bracing wire anchorage to the structure shall be installed such that the direction of the anchorage aligns with the direction of the wire. Bracing wire ceiling clips shall be bent as shown in the details and rotated as required to align with the direction of the wire. Screws in wood shall be installed to align with the direction of the wire.

4. FASTENERS AND WELDING

4.01 Sheet metal screws shall comply with ASTM C1513 and ASME B18.6.3. Penetration of screws through joined material shall not be less than three exposed threads.

4.02 ~~Expansion anchors shall be: *[DP to specify manufacturer, product, evaluation report number, and test load for each size specified per CBC 1910A.5.4.]*~~ NOT APPLICABLE

4.03 ~~Power-Actuated Fasteners shall be: *[DP to specify manufacturer, product, evaluation report number.]*~~

4.04 If not otherwise specified in the evaluation report, power-actuated fasteners installed in steel shall be installed so the entire pointed end of the fastener is driven through the steel member.

4.05 Power-actuated fasteners in concrete or masonry are not permitted for bracing wires.

4.06 Concrete reinforcement and prestressing tendons shall be located by non-destructive means prior to installing post-installed anchors.

4.07 Welding shall be in accordance with AWS D1.3 using E60XX series electrodes.

5. TESTING

5.01 All field testing shall be performed in the presence of the project inspector.

5.02 Post-installed anchors in concrete used to support hanger wires shall be tested at a frequency of 10 percent. Power-actuated fasteners in concrete shall be field tested for 200 pounds in tension. All other post-installed anchors in concrete shall be tested in accordance with CBC Section 1910A.5.

5.03 Post-installed anchors in concrete used to attach bracing wires shall be tested at a frequency of 50 percent and in accordance with CBC Section 1910A.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 luminaire. A minimum of two screws or approved fasteners are required at each luminaire per ASTM E580 Section 5.3.1.

6.02 Surface-mounted luminaires shall be attached to the main runner with at least two positive clamping devices. The clamping device shall completely surround the supporting ceiling runner and be made of steel with a minimum thickness of #14 gauge. Rotational spring catches are not permitted. A #12 gauge slack safety wire shall be connected from each clamping device to the structure above. Additional supports shall be provided when a luminaire is 8 feet or longer or exceeds 56 pounds. Maximum spacing between supports shall not exceed 8 feet.

Detail Title:	REV: 09/21/2015	Detail No.
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SUSPENDED LAY-IN PANEL CEILING: 2022 CBC

6.03 Luminaires weighing less than or equal to 10 pounds 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 supported directly on the ceiling runners 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 from the structure above. See support details on these drawings for more information.

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 other fasteners specified on the drawings are required. A minimum of two attachments are required at each component.

7.02 Ceiling-mounted 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 Ceiling-mounted 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 Ceiling-mounted services weighing more than 56 pounds shall be independently supported from the structure above. See support details on these drawings for more information.

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. 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 independently supported from the structure above.

Detail Title:	REV: 09/21/2015	Detail No.
CEILING NOTES	REV: 03/2022	1.00
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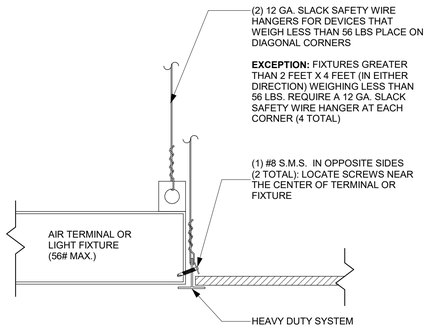
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DATE APRIL 23, 2026
PROJECT NUMBER 0822-03-ED25
SHEET A-953

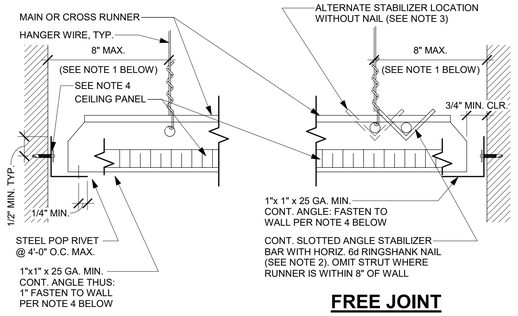
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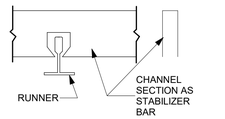


5 LUMINAIRE / AIR TERMINAL SUPPORT

A-954 SCALE: 3" = 1'-0"



ATTACHED JOINT **FREE JOINT**

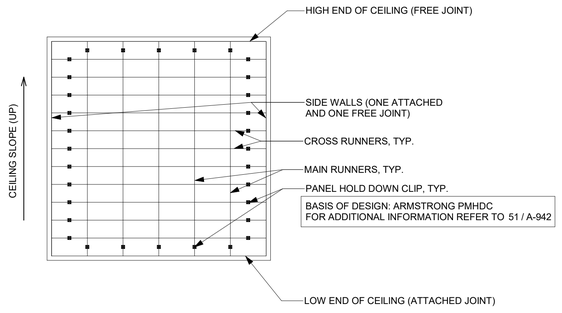


STABILIZER (SEE NOTE 3)

NOTES:
1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
2. NAILS AT ENDS OF HORIZONTAL STABILIZERS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTER LINE OF SPAN OF STRUT.
3. STABILIZER BAR MAY BE SLOTTED APPROVED ANGLES OR CHANNELS WITH "DIAMOND POINTS" OF SPRING STEEL WHICH SNAP TIGHT TO PREVENT MOVEMENT OF STRUT.
4. FASTEN ANGLE TO WALL STUD OR BLOCKING AS FOLLOWS;
   A. METAL STUD (20 GA. MIN.) WALL: (1) #10 SMS AT 24" O.C. MAX.
   B. WOOD STUD WALL: #10x2" LONG WOOD SCREW AT 16" O.C. MAX.

3 CEILING PERIMETER

A-954 A-954 SCALE: 3" = 1'-0"

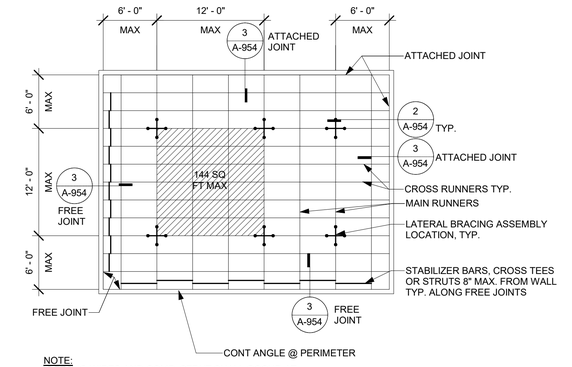


CEILING PLAN: SLOPE ≤ 15°

NOTE:
1. LATERAL FORCE BRACING ASSEMBLIES NOT SHOWN FOR CLARITY. REFER TO TYP. CEILING PLAN.
2. STABILIZER BARS, PERIMETER ANGLES, AND PROPRIETARY SEISMIC CLIPS NOT SHOWN FOR CLARITY. REFER TO TYP. CEILING PLAN.

4 PANEL HOLD DOWN CLIPS AT SLOPED CEILING

A-954 SCALE: 1/8" = 1'-0"



NOTE:
BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 96 SQ. FT. MAX. IN ROOMS OVER 144 SQ. FT.

REFER TO 4 / A-954 FOR SLOPED CEILING CONDITIONS ≤ 15°

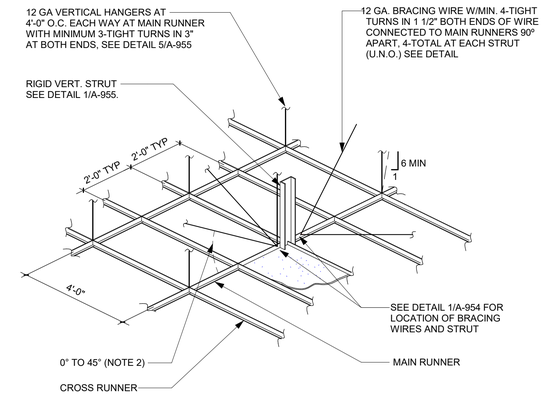
z/h = 0.80 LOW SIDE
0.81 HIGH SIDE
SDS = 0.834

z/h = 10.75' / 13.3' = 0.81

z/h = 9.33' / 11.66' = 0.80

1 TYP. CEILING PLAN FOR 8'x12' BRACE ASSEMBLY SPACING

A-954 SCALE: 1/8" = 1'-0"



NOTES:
1. STRUTS SHALL NOT REPLACE HANGER WIRES.
2. THE MINIMUM ACCEPTABLE ANGLE IS DETERMINED SUCH THAT THE WIRES DO NOT INTERFERE WITH THE RUNNERS, LIGHT FIXTURES, ETC. AND REMAIN STRAIGHT AND UNOBSTRUCTED.

2 SUSPENSION AND LATERAL BRACING ASSEMBLY

A-954 A-954 SCALE: 3" = 1'-0"

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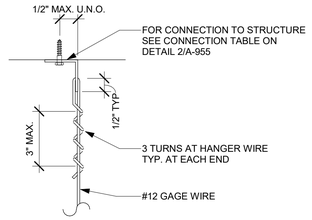
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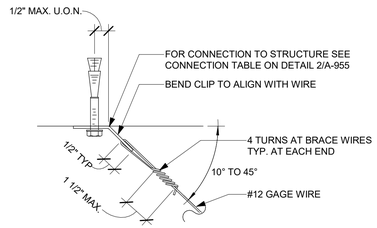
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HANGER WIRE



BRACE WIRE

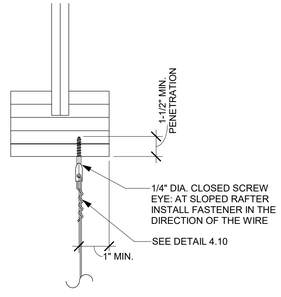
5 HANGER AND BRACING WIRE CONNECT.

A955 SCALE: 3" = 1'-0"

COMPRESSION STRUT EMT SECTION	MAXIMUM LENGTH
1/2" DIAMETER EMT (0.042" WALL THICKNESS)	3' - 11"
3/4" DIAMETER EMT (0.049" WALL THICKNESS)	6' - 4"
1" DIAMETER EMT (0.057" WALL THICKNESS)	9' - 9"
1 1/4" DIAMETER EMT (0.065" WALL THICKNESS)	12' - 9"
1 1/2" DIAMETER EMT (0.065" WALL THICKNESS)	14' - 9"
2" DIAMETER EMT (0.065" WALL THICKNESS)	18' - 10"

3 COMPRESSION STRUT TABLE

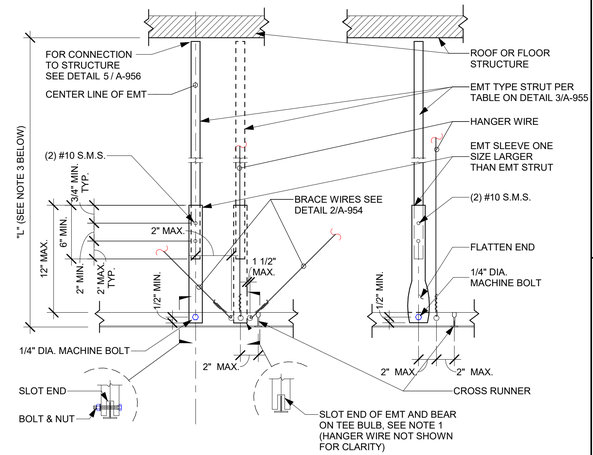
A955 SCALE: 12" = 1'-0"



NOTES:
1. WHEN FIRE RATED GYP. BOARD IS INSTALLED ON THE BOTTOM FLANGES, USE SCREW EYES W/ SUFFICIENT LENGTH TO AVOID DAMAGING THE FIRE RATED GYP. BOARD AND MEET MIN. PENETRATION.

4 HANGER WIRE CONNECTION TO WOOD I-JOIST

A955 SCALE: 1 1/2" = 1'-0"



OPTION 1 **OPTION 3** (HANGER WIRE THROUGH STRUT, SEE NOTE 2) **OPTION 2** FOR INFO NOT SHOWN OR NOTED, SEE OPTION 1

NOTES:
1. MACHINE BOLT IS NOT REQUIRED ON OPTION 3.
2. OPTION 3 IS PERMITTED ONLY WHERE THE ROOF OR FLOOR STRUCTURE IS SAWN TIMBER WITHOUT GYPSUM BOARD.
3. DIMENSION "L" SHALL NOT TO EXCEED THE ALLOWABLE LENGTH GIVEN IN THE TABLE ON FOR THE COMPRESSION STRUT USED

1 COMPRESSION STRUT - EMT TYPE

A955 SCALE: 1 1/2" = 1'-0"

STRUCTURAL SYSTEM OF FLOOR/ ROOF ABOVE SUSPENDED CEILING	APPLICABLE HANGER WIRE DETAIL	APPLICABLE BRACE WIRE DETAIL
~~DARE METAL DECK~~	~~N/A~~	~~N/A~~
~~CONCRETE OVER METAL DECK~~	~~N/A~~	~~N/A~~
~~CONCRETE SLAB, BEAM, OR JOIST~~	~~N/A~~	~~N/A~~
~~STRUCTURAL STEEL~~	~~N/A~~	~~N/A~~
~~METAL STUD WALL~~	~~N/A~~	~~N/A~~
SAWN TIMBER	N/A	N/A
WOOD I-JOIST	4 / A-955	5 / A-955
~~WOOD CHORD TRUSS~~	~~N/A~~	~~N/A~~
~~OPEN WEB STEEL JOIST~~	~~N/A~~	~~N/A~~

2 HANGER AND BRACE WIRE CONNECTION TABLE

A955 SCALE: 12" = 1'-0"

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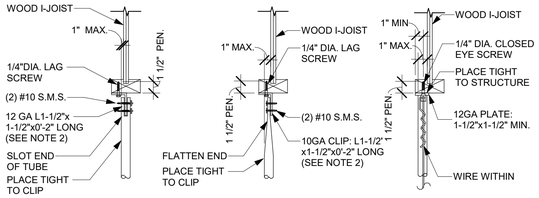
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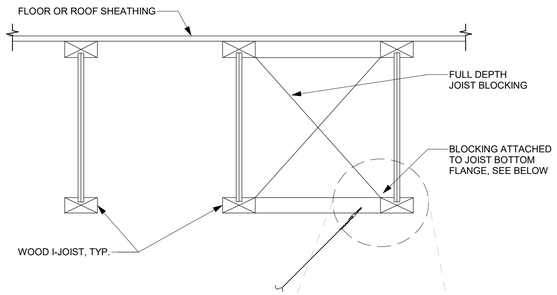
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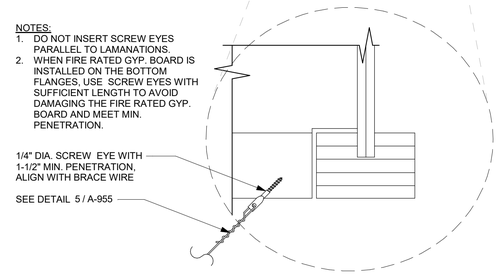


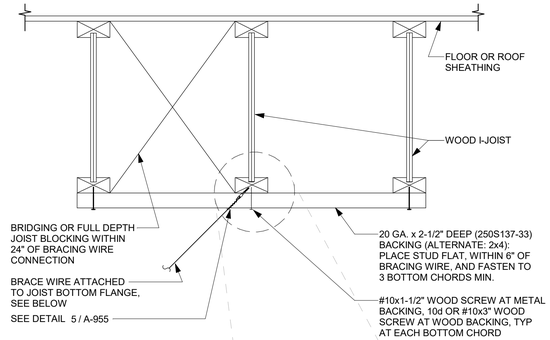
EMT STRUT: OPTION 1 | EMT STRUT: OPTION 2 | EMT STRUT: OPTION 3

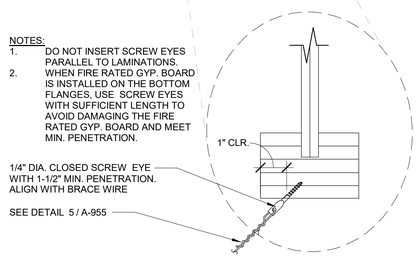
NOTES:
1. WEB OF CHANNEL TO BEAR WITHIN WIDTH OF WOOD MEMBER.
2. VERTICAL LEG OF MEMBER TO FALL WITHIN THE WIDTH OF THE WOOD MEMBER.
3. SEE DETAIL 5.50 FOR ADDITIONAL INFORMATION.
4. PEN = MINIMUM PENETRATION OF LAG SCREW THREADS INTO THE WOOD MEMBER.
5. NO. 14 WOOD SCREW MAY BE USED IN LIEU OF 1/4" LAG SCREW.

5 STRUT CONNECTION TO WOOD I-JOIST
A-956 SCALE: 1 1/2" = 1'-0"









3 BRACE WIRE CONNECTION TO WOOD I-JOIST
A-956 NTS

ESR-1308 ICC-ES Most Widely Accepted and Trusted Page 16 of 23

THE FOLLOWING DETAILS ARE FROM ESR 1308

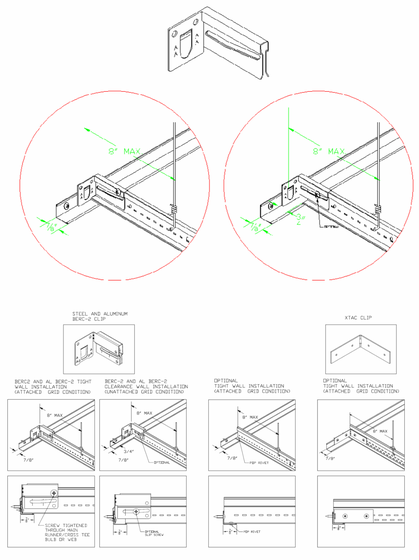
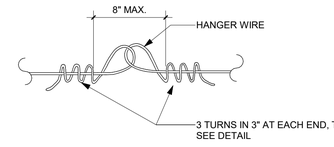


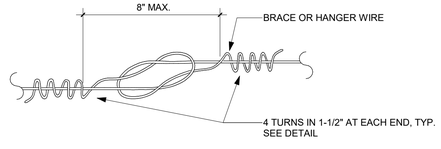
FIGURE 2—BERC-2, AL BERC-2, and XTAC CLIPS

NOTE:
PROVIDE WALL SHIM(S) WHERE PERIMETER TRACK IS NOT 90 DEGREES TO ADJACENT WALL SURFACE. BERC 2 CLIP(S) MUST BE INSTALLED TO PERIMETER TRACK AT 90 DEGREES ONLY. DO **NOT** BEND TRACK.

4 BERC2 CLIP-ESR 1308
A-956 NTS



HANGER WIRE ONLY



HANGER OR BRACE WIRE

NOTES:
1. WIRE SPLICES ARE SHOWN LOOSELY TIED FOR ILLUSTRATIVE PURPOSES ONLY AND SHALL BE DRAWN TIGHT TO COMPLETE INSTALLATION WHEN CONSTRUCTED.
2. WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION WITHIN THE LOOPS.
3. EACH HANGER AND BRACE WIRE SHALL BE SPLICED NO MORE THAN ONCE ALONG ITS LENGTH.

2 6.10 - CEILING WIRE SPLICES
A-956 SCALE: 3" = 1'-0"

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LICENSED ARCHITECT KATHRYN ANNE HICKS 938079 2-28-27 RENEWAL DATE STATE OF CALIFORNIA

CONSULTANT

MESA MS SPED SCIENCE BUILDING
2555 S HALCYON RD, ARROYO GRANDE, CA

INTERIOR DETAILS

NO.	REVISION	DATE
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PROJECT MANAGER: KH
DRAWN BY: DK | CHECKED BY: KF
DATE: APRIL 23, 2026
PROJECT NUMBER: 0822-03-ED25
SHEET: A-956

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SYMBOLS

- DETAIL REFERENCE BUBBLE WITH LEADER
- DETAIL REFERENCE BUBBLE
- FULL HEIGHT SECTION INDICATOR
- ELEVATION OF WALL OR FRAME
- NORTH ARROW
- BOT OF EL = (-X'-X") — TOP/BOTTOM OF ELEVATIONS
- SLOPE
- WELDED WIRE FABRIC (WWF LAYER)
- STEPPED SURFACE; FLOOR DEPRESSION
- SLOPED SURFACE
- S — STEPPED FOOTING
- SB — BOTTOM STEPPED FOOTING
- XX"-X" / X — INDICATES SHEAR WALL TYPE AND LENGTH, PER SHEAR WALL SCHEDULE
- INDICATES SPAN AND DIRECTION OF PREFABRICATED ROOF TRUSS (BY OTHERS)
- XX — INDICATES SPAN AND DIRECTION OF ROOF RAFTER OR FLOOR JOIST WITH WEB STIFFENER
- XX — INDICATES SPAN AND DIRECTION OF ROOF RAFTER OR FLOOR JOIST
- INDICATES EXTENTS OF FRAMING OR OTHER STRUCTURAL ELEMENT
- INDICATES HEADER @ OPENING PER HEADER SCHEDULE
- EARTH LAYER
- INDICATES SAND OR GROUT
- INDICATES GRAVEL
- STEEL IN CROSS SECTION
- INDICATES BEARING WALL
- SHADED AREA INDICATES CALIFORNIA FRAMING
- SHADED AREA INDICATES FOOTPRINT OF FLOOR ABOVE
- STEEL HSS TUBE COLUMN
- STEEL HSS OR PIPE COLUMN
- WIDE FLANGE STEEL COLUMN
- WOOD POST
- (X) — INDICATES TOP PLATE SPLICE NAILING PER SCHEDULE
- (Ix) — INDICATES SHEAR WALL STRAP / HOLDOWN TYPE PER SCHEDULE
- F1 — INDICATES PAD FOOTING TYPE PER SCHEDULE
- C1 — INDICATES CONTINUOUS FOOTING TYPE PER SCHEDULE
- ANGLE BRACE
- (2L) — DOUBLE ANGLE BRACE
- DRAG STRUT CONNECTION
- FULL HEIGHT STIFFENER CONNECTION
- MOMENT CONNECTION
- MEMBER SPLICE
- (+3") — TOP OF STEEL ± ELEVATION
- [X] — NUMBER OF EVENLY SPACED SHEAR STUDS
- [X–Y–Z] — SPECIAL STUD SPACING SEE TYPICAL STEEL DETAILS
- <3/4> — BEAM CAMBER AT MID-SPAN

WALL TYPES

- INDICATES PLYWOOD SIDE FOR SHEARWALL
- INDICATES BEARING WOOD WALL BELOW
- INDICATES BEARING WOOD WALL ABOVE
- INDICATES NON-BEARING WOOD WALL BELOW
- INDICATES NON-BEARING WOOD WALL ABOVE
- INDICATES EXISTING BEARING WOOD WALL
- INDICATES EXISTING NON-BEARING WOOD WALL
- INDICATES BEARING CMU WALL BELOW
- INDICATES BEARING CMU WALL ABOVE
- INDICATES NON-BEARING CMU WALL BELOW
- INDICATES NON-BEARING CMU WALL ABOVE
- INDICATES EXISTING BEARING CMU WALL
- INDICATES EXISTING NON-BEARING CMU WALL
- INDICATES BEARING CONCRETE WALL BELOW
- INDICATES BEARING CONCRETE WALL ABOVE
- INDICATES NON-BEARING CONCRETE WALL BELOW
- INDICATES NON-BEARING CONCRETE WALL ABOVE
- INDICATES EXISTING BEARING CONCRETE WALL
- INDICATES EXISTING NON-BEARING CONCRETE WALL

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ABBREVIATIONS

A & B	ABOVE AND BELOW
AB	ANCHOR BOLT
ABV	ABOVE
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
ADJ	ADJACENT
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ALUM	ALUMINUM
ANCH	ANCHOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APA	ENGINEERED WOOD ASSOCIATION (FORMERLY THE AMERICAN PLYWOOD ASSOCIATION)
APPVD	APPROVED
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL; ARCHITECT
AWPA	AMERICAN WOOD PRESERVERS ASSOCIATION
AWS	AMERICAN WELDING SOCIETY
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
BEL	BELOW
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BN	BOUNDARY NAIL
BOT OR B	BOTTOM
BRC	BRACE
BRG	BEARING
BTWN	BETWEEN
CANT	CANTILEVER
CAM OR C	CAMBER
CC	CENTER TO CENTER
CG	CENTER OF GRAVITY
CIP	CAST-IN-PLACE
CJ	CONSTRUCTION JOINT; CONTROL JOINT
CL	CENTER LINE
CLR	CLEARANCE; CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPRESSION
CONC	CONCRETE
CONN	CONNECTION; CONNECT
CONSTR	CONSTRUCTION
CONT	CONTINUE; CONTINUOUS
CONTR	CONTRACTOR
CJP	COMPLETE JOINT PENETRATION WELD
CTR	CENTER
CTSK	COUNTERSINK; COUNTERSUNK
CU FT	CUBIC FOOT
d	PENNY (NAIL OR BAR DIA)
DBL	DOUBLE
DEPT	DEPARTMENT
DET	DETAIL
DF	DOUGLAS FIR/LARCH
DIA OR Ø	DIAMETER
DIAG	DIAGONAL
DIAPH	DIAPHRAGM
DIM	DIMENSION
DN	DOWN
DO	DO OVER
DWG	DRAWING
DWL	DOWEL
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMBED	EMBEDMENT
EN	EDGE NAIL
ENGR	ENGINEER
EQ	EQUAL OR EQUIVALENT
EQUIP	EQUIPMENT
ES	EACH SIDE
EW	EACH WAY
EXIST or (E)	EXISTING
EXT	EXTERIOR
FDN	FOUNDATION
FIN	FINISH
FJ	FLOOR JOIST
FLG	FLANGE
FLR	FLOOR
FN	FIELD NAIL
FOC	FACE OF CONCRETE
FOM	FACE OF MASONARY
FOS	FACE OF STUD
FOW	FACE OF WALL
FRMG	FRAMING
FT	FOOT; FEET
FTA	FLOOR TIE ABOVE
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GLB	GLUED LAMINATED BEAM
GR	GRADE
GRND	GROUND
H or HORIZ	HORIZONTAL
HDR	HEADER
HGR	HANGER
HP	HIGH POINT
HSH	HORIZONTALLY SLOTTED HOLES
HT	HEIGHT
ID	INSIDE DIAMETER
IF	INSIDE FACE
I-JST	I-JOIST
IN	INCH
INCL	INCLUDE
INFO	INFORMATION
INSP	INSPECTION
INT	INTERIOR
JST	JOIST
JT	JOINT
K	KIPS
KS	KING STUD
KP	KING POST
KSI	KIPS PER SQUARE INCH
LB(S) OR #	POUND(S)
LF	LINEAL FOOT
LIN	LINEAL; LINEAR
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LSH	LONG SLOTTED HOLES
LSL	LAMINATED STRAND LUMBER
LT WT	LIGHTWEIGHT
LVL	LEVEL OR LAMINATED VENEER LUMBER
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM; MINUTE
MISC	MISCELLANEOUS
(N)	NEW
N	NORTH
NO or #	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
ORIG	ORIGINAL
OSB	ORIENTED STRAND BOARD
PA	POST ABOVE
PARA OR //	PARALLEL
PC	PRECAST; PIECE
PERP	PERPENDICULAR
PI	PLYWOOD INDEX
℄ OR PL.	PLATE
PL	PROPERTY LINE
PLF	POUNDS PER LINEAL FOOT
PLCS	PLACES
PLY	PLYWOOD
PROP	PROPERTY
PT	PRESSURE TREATED
PW	PLATE WASHER
PJP	PARTIAL JOINT PENETRATION WELD
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
PVMT	PAVEMENT
#	POUND; NUMBER
REF	REFERENCE
REINF	REINFORCE; REINFORCING
REQD	REQUIRED
RF	ROOF
RR	ROOF RAFTER
Ø	ROUND; DIAMETER
SCHED	SCHEDULE
SECT	SECTION
SEP	SEPARATION
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SOG	SLAB ON GRADE
SN	SHEAR NAIL
SPCG	SPACING
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
SSL	SHORT SLOTTED HOLES
STD	STANDARD
STGR	STAGGER
STIFF	STIFFENERS
STIRR	STIRRUP
STL	STEEL
STRUCT	STRUCTURAL
SW	SHEAR WALL
SYM	SYMMETRICAL
TB	TIE BEAM
T & B	TOP AND BOTTOM
T & G	TONGUE & GROOVE
TO	TOP OF
TOC	TOP OF CURB; TOP OF CONCRETE
TOF	TOP OF FOOTING
TEMP	TEMPERATURE; TEMPORARY
THRU	THROUGH
THK	THICKNESS/THICK
THR	THREADED
TOP or T	TOP
TOS	TOP OF STEEL/TOP OF SLAB
TOW	TOP OF WALL
TS	TRIMMER STUD
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UT	ULTRA-SONIC TEST
VERT	VERTICAL
VSH	VERTICAL SLOTTED HOLES
W/	WITH
W/O	WITHOUT
WO	WHERE OCCURS
WD	WOOD
WP	WORK POINT; WATERPROOF
WWF	WELDED WIRE FABRIC

STRUCTURAL STEEL SHAPES

W	W SHAPE
C	AMERICAN STD CHANNEL SHAPE
MC	MISC CHANNEL SHAPE
L	ANGLE SHAPE
WT, ST, MT	STRUCT TEE SHAPE
PIPE	STANDARD PIPE SHAPE
PIPE-X	EXTRA STRONG PIPE SHAPE
PIPE-XX	DBL EXTRA STRONG PIPE SHAPE
HSS	HOLLOW STRUCTURAL SECTION

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SHEET INDEX, ABBREVIATIONS & SYMBOLS

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PROJECT MANAGER
J. MEADOWS

DRAWN BY C. PRESSLER | **CHECKED BY** J. MEADOWS

DATE
APRIL 23, 2026

PROJECT NUMBER
0822-03-ED25

SHEET
S-101

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REINFORCING STEEL

1. REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 19A OF THE CODE AND WITH THE PROVISIONS OF ACI 318-19, ASTM A706, GRADE 60 UNO. ASTM A615 GR 60 STEEL MAY BE SUBSTITUTED FOR ASTM A706 GR60 STEEL PER ACI 318-19 SECTION 20.2.2.5 PROVIDED THE FOLLOWING CONDITIONS ARE MET:
   A. THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED THE SPECIFIED YIELD STRENGTH BY MORE THAN 18,000 PSI.
   B. THE RATIO OF THE ACTUAL ULTIMATE TENSILE STRESS TO THE ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25.
   C. WHERE REINFORCEMENT COMPLYING WITH ASTM A615 IS TO BE WELDED, CHEMICAL TESTS SHALL BE PERFORMED TO DETERMINE WELDABILITY IN ACCORDANCE WITH SECTION 26.6.4 OF ACI 318-19.
2. BARS SHALL BE CLEAN OF RUST, GREASE, OR OTHER MATERIALS LIKELY TO IMPAIR BOND. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
3. WELDED WIRE REINFORCEMENT (WWR), PLAIN OR DEFORMED, SHALL CONFORM TO ASTM A185. WELDED DEFORMED WIRE REINFORCEMENT (WWR) SHALL CONFORM TO ASTM A1064. ALL WWR FOR STAIR PANS AND ALL WWR FOR CONCRETE FILL ON METAL DECK TO BE PLAIN WWR. PROVIDE LAPS PER ACI 318-19 SECTION 25.5.3 OR 25.5.4 MINIMUM. WWR SHALL BE SUPPORTED ON APPROVED CHAIRS.
4. REINFORCING BAR LAP SPLICES SHALL BE MADE AS INDICATED ON THE DRAWINGS. LAP ALL HORIZONTAL BARS AT CORNERS AND INTERSECTIONS. STAGGER ALL SPLICES UNLESS NOTED OTHERWISE ON PLANS.
   A. MINIMUM LAP SPLICE LENGTH FOR REINFORCING STEEL BARS IN CONCRETE SHALL BE PER ACI 318-19 SECTION 25.5.2 AND THE REINFORCING SCHEDULE ON THE DRAWINGS.
5. ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION IS MADE. ALL REINFORCING CONFORMING TO DIFFERING ASTM SPECIFICATIONS AND/OR OF DIFFERING GRADES SHALL BE CLEARLY MARKED TO DIFFERENTIATE THEM FROM OTHER REINFORCING STEEL IF CONCURRENTLY PRESENT ON SITE.
6. WHERE WELDING OF REINFORCING IS APPROVED BY THE STRUCTURAL ENGINEER, IT SHALL BE DONE BY AWS CERTIFIED WELDERS USING E80XX OR APPROVED ELECTRODES. WELDING PROCEDURES SHALL CONFORM TO THE REQUIREMENTS OF STRUCTURAL WELDING CODE- REINFORCING STEEL', AWS-D1.4-15. REINFORCING BARS TO BE WELDED SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706.
7. REINFORCING STEEL SHALL BE ACCURATELY PLACED, ADEQUATELY SUPPORTED AND SHALL BE SECURED AGAINST DISPLACEMENT, AND TIED BEFORE THE CONCRETE IS PLACED DURING CONSTRUCTION WITHIN PERMITTED TOLERANCES. ADEQUATE SUPPORTS ARE ALSO NECESSARY TO KEEP THE REINFORCING STEEL AT THE PROPER DISTANCE FROM THE FORMS. USE WIRE BAR SUPPORTS, PRECAST CONCRETE SUPPORTS, SPACERS, BOLSTERS, REINFORCEMENT OR OTHER MEANS OF SUPPORT PER THE "CRSI MANUAL OF STANDARD PRACTICE", LATEST EDITION.
8. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE "CRSI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", LATEST EDITION.
9. COMPLETE AND DETAILED REINFORCING PLACEMENT DRAWINGS SHALL BE PREPARED AND SUBMITTED TO THE ARCHITECT FOR APPROVAL BY THE SEOR PRIOR TO FABRICATION IN ACCORDANCE WITH THE SPECIFICATIONS AND APPLICABLE CODES. THESE DRAWINGS SHALL BE AVAILABLE ON THE JOB SITE PRIOR TO PLACING OF CONCRETE. THE REINFORCING PLACEMENT DRAWINGS SHALL INCLUDE ALL PRIMARY REINFORCEMENT, LAP SPLICES, TIES, DOWELS, HEADED U-DOWELS, EMBED PLATES, ANCHOR BOLTS, ETC. AREAS OF CONGESTION SHALL BE DETAILED SUFFICIENTLY TO DEMONSTRATE THAT PLACEMENT OF REBAR MEETS SPACING REQUIREMENTS OF ACI 318-19.
10. MILL TEST REPORTS FOR GRADE 60 BARS SHALL BE SUBMITTED TO THE INSPECTOR OF RECORD PRIOR TO PLACEMENT OF CONCRETE PER ACI 318-19 SECTION 26.13.2.3 OF THE CODE.
11. INSPECTION OF CONCRETE SHALL INCLUDE INSPECTION DURING INSTALLATION OF REINFORCING STEEL. INSPECTION SHALL BE SCHEDULED SO THAT PLACEMENT OF REINFORCING STEEL, CONDUIT, SLEEVES, AND EMBEDDED ITEMS MAY BE CORRECTED PRIOR TO PLACEMENT OF OVERLYING GRIDS OR REINFORCING STEEL.
12. CONCRETE PROTECTION FOR REINFORCEMENT

THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT IN CAST-IN-PLACE CONCRETE (NON-PRESTRESSED):	MINIMUM COVER, IN.
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3
B. CONCRETE EXPOSED TO EARTH OR WEATHER: NO.6 THROUGH NO. 18 BAR NO.5 BAR, W31 OR D31 WIRE & SMALLER	2 1½"
C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, JOISTS: NO.14 AND NO.18 BARS NO.11 BAR & SMALLER BEAMS, COLUMNS: PRIMARY REINFORCEMENT TIES, STIRRUPS, SPIRALS	 1½" ¾" 1½"

13. MECHANICAL BAR SPLICE CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ACI 318-19 SECTION 25.5.7 USE OF MECHANICAL CONNECTIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. SPLICES MUST BE TESTED AS INDICATED IN THE CONCRETE REINFORCEMENT SPECIFICATION. ACCEPTABLE PRODUCTS INCLUDE:

    LENTON STANDARD COUPLERS (IAPMO-ES 0129)
    LENTON FORM SAVERS, TYPE SA (IAPMO-ES 0129)
    LENTON WELDABLE HALF COUPLERS (IAPMO-ES 0129)
    LENTON LOCK COUPLERS PER (IAPMO-ES 0129)

    NOTE THAT REBAR ATTACHED TO PLATE USING LENTON WELDABLE HALF COUPLERS SHALL BE ASTM A706 PER IAPMO-ES 0129.

    ALL MECHANICAL BAR SPLICE CONNECTIONS IN SPECIAL STRUCTURAL WALLS, SPECIAL MOMENT FRAMES AND CONCRETE DIAPHRAGMS SHALL BE TYPE 2 CONFORMING TO THE REQUIREMENTS OF ACI 318-19 SECTION 18.2.7 & 18.12.7.4

CONCRETE

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19A OF THE CODE AND WITH THE PROVISIONS OF ACI 318-19.
2. CONCRETE MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING STANDARDS:

MATERIAL	ASTM STANDARD
PORTLAND CEMENT (TYPE II)	C150/C595
CONCRETE AGGREGATES (HARDROCK)	C33
WATER[A]	C1602
COAL FLY ASH OR POZOLLAN (CLASS F)	C618
NATURAL OR MANUFACTURED SAND	C33
SLAG	C989

   A. WATER SHOULD ONLY BE ADDED AT THE BATCH PLANT. IN NO CASE SHALL THE DESIGN WATER/ CEMENT RATIO BE EXCEEDED.

3. CONCRETE MIXES SHALL BE PROPORTIONED BASED ON SECTION 26.4.3 OF ACI 318-19. WHICH REFERENCES ACI 301-20 ARTICLE 4.2.3. MIX DESIGNS SHALL INCLUDE DOCUMENTATION OF MIX AVERAGE COMPRESSIVE STRENGTH THROUGH FIELD TEST DATA OR TRIAL MIXTURES IN ACCORDANCE WITH ACI 301-20 ARTICLE 4.2.3.4. SCHEDULE OF STRUCTURAL CONCRETE STRENGTHS AND LOCATIONS (UNO):

LOCATION IN STRUCTURE	MINIMUM STRENGTH (PSI)	DENSITY (PCF)	MAX SLUMP (IN±1)	MAX WATER/CEMENT RATIO	SLAG/ FLY ASH[A] (MAX)
CONCRETE FOUNDATIONS, GRADE BEAMS, TIE BEAMS	3,000	150	4	0.5	0.25
CONCRETE STEM WALLS	3,000	150	4	0.5	0.25
CONCRETE SLAB ON GRADE	3,000	150	4	0.45	0.25
STAIRS ON GRADE, CURBS AND OTHER NON-STRUCTURAL CONCRETE	3,000	150	4	0.5	0.25
SITE WALLS	3,000	150	4	0.5	0.25

   A. AS MEASURED BY CEMENTITIOUS WEIGHT

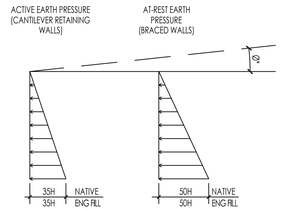
4. READY MIXED CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM C94 OR C685.
5. DEPOSITING AND CONVEYING OF CONCRETE SHALL CONFORM TO SECTION 26.5 OF ACI 318-19 AND PROJECT SPECIFICATIONS.
6. ALL CONCRETE SURFACES AGAINST WHICH NEW CONCRETE IS TO BE PLACED SHALL BE CLEANED AND ROUGHENED TO 1/4" AMPLITUDE.
7. ALL REINFORCING BARS, ANCHOR BOLT HOLDOWNS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED AND TIED IN POSITION PRIOR TO PLACING CONCRETE. IN NO CASE SHALL ANY REINFORCING BARS, ANCHOR BOLTS, HOLDOWNS OR OTHER CONCRETE INSERTS BE "WET SET" OR "WET-STABBED" INTO CONCRETE DURING THE POUR.
8. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED WITHOUT SEOR APPROVAL. NOTIFY THE SEOR IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS. SEE THE DRAWINGS FOR ADDITIONAL RESTRICTIONS ON THE PLACEMENT OF OPENINGS IN SLABS AND WALLS.
9. PIPES EMBEDDED IN CONCRETE:
   A. CONCRETE
      a. PIPES LARGER THAN 1-1/2" DIAMETER SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY SEOR.
      b. PIPES SHALL NOT DISPLACE OR INTERRUPT REINFORCING BARS.
      c. DO NOT STACK CONDUITS. SPACE EMBEDDED PIPES AND CONDUITS AT A MINIMUM OF 3 DIAMETERS CLEAR FROM OTHER EMBEDDED PIPES/CONDUITS AND REBAR.

FOUNDATION

1. GEOTECHNICAL INFORMATION AND FOUNDATION DESIGN IS BASED ON THE FOLLOWING GEOTECHNICAL REPORTS AND SUPPLEMENTS/ADDENDUMS. COPIES OF THE REPORTS AND SUPPLEMENTAL LETTERS SHALL BE AVAILABLE AT THE JOBSITE AT ALL TIMES.

REPORT/ADDENDUM TITLE	PREPARED BY	DATE	PROJECT #
UPDATED GEOTECHNICAL ENGINEERING AND GEOLOGIC HAZARDS REPORT MESA MIDDLE SCHOOL SPED/SCIENCE BUILDING 2555 SOUTH HALCYON ROAD ARROYO GRANDE, CA	EARTH SYSTEMS PACIFIC	04/03/2025	301024-006

2. LATERAL EARTH PRESSURES:



   * FOR SLOPING BACKFILL ADD 1 PCF FOR EVERY 2 DEG. (ACTIVE CASE) AND 1.5 PCF FOR EVERY 2 DEG (AT REST)

3. SPREAD OR CONTINUOUS FOOTINGS:

ELEMENT	ALLOWABLE BEARING CAPACITY (PSF)[A]	ALLOWABLE LATERAL RESISTANCE[B]	
		PASSIVE RESISTANCE (PSF/FT BELOW GRADE)	FRICTION RESISTANCE (COEFFICIENT OF FRICTION)
COMPACTED FILL	1,200 DEAD ONLY 1,600 DEAD + LIVE	233	0.27
RET WALL	1,600		

   NOTES:
   A. THE ALLOWABLE CAPACITY MAY BE INCREASED BY ONE-THIRD WHEN CONSIDERING LOADS OF SHORT DURATION SUCH AS WIND OR SEISMIC FORCES.
   B. THE ALLOWABLE LATERAL RESISTANCE CAN BE TAKEN AS THE SUM OF THE FRICTIONAL RESISTANCE AND PASSIVE RESISTANCE WITHOUT REDUCTION TO EITHER VALUE.
   C. THE UPPER 1 FOOT OF SOIL NOT PROTECTED BY PAVEMENT SHALL BE NEGLECTED WHEN CALCULATING PASSIVE RESISTANCE.
   D. COMPACTED FILL SHOULD BE PREPARED PER SECTION 11.0 OF THE GEOTECHNICAL EVALUATION REPORT
   E. ASSUMES THAT THE GROUND IS HORIZONTAL FOR A DISTANCE OF 7 FEET.

4. SLAB ON GRADE SUPPORT SHALL BE PER THE GEOTECHNICAL INVESTIGATION REPORT AND TYPICAL DETAILS IN THE CONSTRUCTION DOCUMENTS.
5. WHERE NOT SHOWN ON THE DRAWINGS, CONTRACTOR TO PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED AND SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES.
6. CONTRACTOR TO PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER AND/OR SEEPAGE.
7. EXCAVATION FOR FOOTINGS SHALL BE APPROVED BY THE INSPECTOR AND GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE AND REINFORCING.
8. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE OR GROUT HAS ATTAINED FULL DESIGN STRENGTH. CONTRACTOR SHALL BRACE OR PROTECT ALL BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED FULL DESIGN STRENGTH. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS AND INSTALLATION OF SUCH BRACING.
9. EXCAVATIONS SHALL BE CUT SQUARE AND SMOOTH, WITH LEVEL BOTTOMS.
10. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT AND APPROVED BY THE GEOTECHNICAL ENGINEER. FLOODING WILL NOT BE PERMITTED. ALL FILLS USED TO SUPPORT FOUNDATIONS SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER REPRESENTATIVE PER SECTION 1705A.6 OF THE CODE.
11. ALL ABANDONED FOOTINGS, UTILITIES, ETC. SHALL BE REMOVED. NEW FOOTINGS MUST EXTEND INTO FIRM RECOMPACTED SOIL.
12. PIPES WITHIN THE ZONE OF INFLUENCE OF BUILDING OR SITE ELEMENT FOUNDATIONS SHALL BE ENCASED IN LEAN CONCRETE AT THE DIRECTION OF THE GEOTECHNICAL ENGINEER OF RECORD.

EXISTING CONDITIONS

1. ALL INFORMATION SHOWN ON THE PLANS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE FROM PLANS SUPPLIED BY THE OWNER, BUT WITHOUT GUARANTEE OF ACCURACY.
2. WHERE ACTUAL CONDITIONS ARE NOT IN ACCORDANCE WITH THE INFORMATION PRESENTED, THE ARCHITECT AND/OR STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY. NO MODIFICATIONS OF THE PLANS FOR NEW CONSTRUCTION SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.

EXISTING UNDERGROUND UTILITIES

1. THE ARCHITECT AND ENGINEERS ARE NOT RESPONSIBLE FOR THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THE DRAWINGS. DRAWINGS, IF ANY, IS APPROXIMATE. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THE SITE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND/OR STRUCTURAL ENGINEER SHOULD ANY SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES WHICH MAY RESULT FROM HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES.
3. AN UNDERGROUND SERVICE ALERT INQUIRY IDENTIFICATION NUMBER MUST BE OBTAINED AT LEAST TWO WORKING DAYS BEFORE STARTING WORK WITH THIS PERMIT.
   A. FOR PROJECTS IN SOUTHERN CALIFORNIA TELEPHONE NO. 1-800-422-4133.
   B. FOR PROJECTS IN NORTHERN CALIFORNIA TELEPHONE NO. 1-800-227-2600.

DESIGN INFORMATION

1. DEAD LOADS (2022 CBC SECTION 1603A):

DEAD LOADS		
LOCATIONS		UNIFORM (PSF)
ROOF:	SINGLE PLY W/ DROPPED CEILING	21
ROOF OVERHANG:	SINGLE PLY W/ FIBER CEMENT SOFFIT	17
EXTERIOR BEARING WALLS:	2x6 STUDS @ 16" OC W/ PLASTER FINISH	19
INTERIOR BEARING WALLS:	2x4 STUDS @ 16" OC W/ GYP & TACKBOARD	12
INTERIOR NON BEARING WALLS:	DBL 2x6 STUDS @ 16" OC W/ GYP & TACKBOARD	12
INTERIOR NON BEARING WALLS:	2x6 STUDS @ 16" OC W/ GYP FINISH	14

2. FLOOR LIVE LOADS: (2022 CBC SECTION 1603A.1.1)

FLOOR LIVE LOADS			
OCCUPANCY OR USE	UNIFORM (PSF)	CONC. (LBS)	REFERENCE
SCHOOL CLASSROOMS	60	—	2022 CBC TABLE 1607A.1

3. ROOF LIVE LOADS (2022 CBC SECTION 1603A.1.2)

ROOF LIVE LOADS			
OCCUPANCY OR USE	UNIFORM (PSF)	CONC. (LBS)	REFERENCE
ROOF ORDINARY FLAT, PITCHED AND CURVED ROOFS (THAT ARE NOT OCCUPIABLE)	20	—	2022 CBC TABLE 1607A.1

4. ROOF SNOW LOADS (2022 CBC SECTION 1603A.1.3):

SNOW DESIGN DATA		
PARAMETER	VALUE	REFERENCE
GROUND SNOW LOAD	P_g = 0 PSF	ASCE 7-16 7.2

5. WIND DESIGN DATA (2022 CBC SECTION 1603A.1.4) :

WIND DESIGN DATA		
PARAMETER	VALUE	REFERENCE
ULTIMATE DESIGN WIND SPEED (3-SEC GUST)	V_{ULT} = 99 MPH	2022 CBC FIG. 1609A.3
NOMINAL DESIGN WIND SPEED (3-SEC GUST)	V_{ASD} = 77 MPH	2022 CBC 1609A.3.1
EXPOSURE CATEGORY	C	2022 CBC 1609A.4.3
INTERNAL PRESSURE COEFFICIENT:	GCpi = ± 0.18	ASCE 7-16 TABLE 26.13-1

COMPONENTS & CLADDING WIND PRESSURES (PSF)				
LOCATION		COMPONENT TRIBUTARY AREA (SQ FT)		
		10	100	500
ROOF	ZONE 1'	-19.6	-19.6	-16.0
	ZONE 1	-34.0	-26.8	-21.4
	ZONE 2	-44.9	-35.8	-28.6
	ZONE 3	-61.2	-42.2	-28.6
	ALL ZONES	16.0	16.0	16.0
OVERHANG	ZONE 1'	-34.0	-32.2	-21.4
	ZONE 1	-34.0	-32.2	-21.4
	ZONE 2	-44.9	-32.2	-23.2
	ZONE 3	-61.2	-39.5	-23.2
WALL	ZONE 4	-23.2	-20.1	-17.7
	ZONE 5	-28.6	-22.3	-17.7
	POSITIVE	21.4	17.7	16.0

6. EARTHQUAKE DESIGN DATA (2022 CBC SECTION 1603A.1.5):

SITE AND OCCUPANCY PARAMETERS		
PARAMETER	VALUE	REFERENCE
RISK CATEGORY	III	2022 CBC TABLE 1604A.5
SEISMIC IMPORTANCE FACTOR	I = 1.25	ASCE 7-16 TABLE 1.5-2
MAPPED SPECTRAL RESPONSE ACCELERATIONS:	S_S = 1.002 S_1 = 0.368	2022 CBC 1613A.2.1
SITE CLASS	D	2022 CBC 1613A.2.2
SPECTRAL RESPONSE COEFFICIENTS:	S_{DS} = 0.834 S_{D1} = 0.743	2022 CBC 1613A.2.4

BUILDING PARAMETERS		
PARAMETER	VALUE	REFERENCE
SEISMIC DESIGN CATEGORY	SDC = D	2022 CBC 1613A.2.5
BASIC SEISMIC FORCE RESISTING SYSTEM	LIGHT FRAME (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE	ASCE 7-16 TABLE 12.2-1
RESPONSE MODIFICATION FACTOR	R = 6½	
SYSTEM OVERSTRENGTH FACTOR	Ωo = 3	
DEFLECTION AMPLIFICATION FACTOR	Cd = 4	
DESIGN BASE SHEAR	V = 18.2k	ASCE 7-16 12.8.1
SEISMIC RESPONSE COEFFICIENTS	Cs = 0.160	ASCE 7-16 12.8.1.1
ANALYSIS PROCEDURE USED	EQUIVALENT LATERAL FORCE PROCEDURE	ASCE 7-16 12.8

7. GEOTECHNICAL INFORMATION (2022 CBC SECTION 1603A.1.6):
   REFER TO FOUNDATION GENERAL NOTES

GENERAL

1. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES AND STANDARDS:
   A. 2022 CALIFORNIA BUILDING CODE, PART 2, VOLUME 2 OF 2, AND TITLE 24 C.C.R. 2022 EDITION AND LATEST REVISIONS (INCLUDING SUPPLEMENTS AND ERRATA) HEREIN REFERRED TO AS "THE CODE".
   B. ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF OCCUPATIONAL SAFETY AND HEALTH (CAL/OSHA).
   C. CODES & STANDARDS REFERENCED IN THE CODE OR LISTED IN THESE NOTES AND SPECIFICATIONS.
2. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
3. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. IN NO INSTANCE SHALL DIMENSIONS BE SCALED FROM THE DRAWINGS.
5. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
   A. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED
   B. SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS UNLESS NOTED AND/OR DETAILED ON THE STRUCTURAL DRAWINGS
   C. SIZE AND LOCATION OF ALL CONCRETE CURBS, EQUIPMENT PADS, PITS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGE IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC
   D. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS EXCEPT AS SHOWN
   E. FLOOR AND ROOF FINISHES
   F. MISCELLANEOUS DRAINAGE AND WATERPROOFING
   G. ALL FIREPROOFING REQUIREMENTS INCLUDING FIREPROOFING OF STRUCTURAL STEEL
   H. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS
6. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
   A. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED.
   B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
   C. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES.
   D. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS.
7. SEE CIVIL DRAWINGS FOR THE FOLLOWING:
   A. HEIGHT AND/OR ELEVATION OF:
      a. FINISHED SURFACE
      b. TOP OF WALL
      c. TOP OF GRADE
      d. FINISHED GRADE
      e. SLOPE
   B. SITE CONCRETE WALKWAYS, CURBS & PAVING
8. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT ETC. THE CONTRACTOR IS RESPONSIBLE FOR PROVISION OF TEMPORARY SHORING AND OTHER CONSTRUCTION AIDS, INCLUDING ALL ENGINEERING OF SUCH SYSTEMS, FOR TEMPORARY SUPPORT OF NEW AND/OR EXISTING STRUCTURAL ELEMENTS AS REQUIRED FOR ERECTION AND OTHER CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION (UNO). OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS OR CONCERN CONSTRUCTION MEANS AND METHODS OR CONSTRUCTION SAFETY.
9. BACKFILL SHALL NOT BE PLACED BEHIND EXTERIOR AND INTERIOR RETAINING WALLS UNTIL THE CONCRETE / CMU HAS ACHIEVED FULL DESIGN STRENGTH, FOR BRACED WALLS SUPPORTED BY STRUCTURAL DIAPHRAGMS. BACKFILL SHALL NOT BE PLACED BEHIND THE WALL UNTIL THE DIAPHRAGM HAS BEEN INSTALLED , AND FOR CONCRETE DIAPHRAGMS, HAS ACHIEVED FULL DESIGN STRENGTH.
10. THE CONTRACT STRUCTURAL DRAWINGS SHOW THE BUILDING IN ITS FINAL INTENDED POSITION. CONTRACTOR SHALL MAKE PROVISIONS IN THE LAYOUT OF THE BUILDING TO TAKE INTO ACCOUNTS SHRINKAGE, CREEP, SHORTENING, ETC..
11. OPENINGS, POCKETS, ETC., LARGER THAN 6" SHALL NOT BE PLACED IN CONCRETE SLABS, DECKS, WALLS, UNLESS SPECIALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., LARGER THAN 6" NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN STRUCTURAL MEMBERS.
12. ASTM SPECIFICATIONS ON THE DRAWINGS SHALL BE THE VERSION REFERENCED IN CHAPTER 35 OF THE CODE OR AS REFERENCED IN THE APPLICABLE DESIGN STANDARD.
13. CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC.. IF ANY SUCH STRUCTURES ARE FOUND, THE STRUCTURAL ENGINEER AND GEOTECHNICAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
14. CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED ROOF OR FLOOR. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. THE CONTRACTOR TO DESIGN AND PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.
15. CONTRACTOR SHALL COORDINATE SHORING WITH DRAWINGS OF RECORD TO INSURE PROVISIONS FOR POCKETS, BLOCKOUTS, OFFSETS, STEPPED FOOTINGS AND ANY OTHER ITEMS AFFECTED BY THE SHORING. SHORING IS NOT THE RESPONSIBILITY OF THE SEOR. CONTRACTOR TO SUBMIT ANY SHORING DESIGN AND DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
16. AN UNDERGROUND SERVICE ALERT INQUIRY IDENTIFICATION NUMBER MUST BE OBTAINED AT LEAST TWO WORKING DAYS BEFORE STARTING WORK WITH THIS PERMIT.
   A. FOR PROJECTS IN SOUTHERN CALIFORNIA TELEPHONE NO. 1-800-422-4133.
   B. FOR PROJECTS IN NORTHERN CALIFORNIA TELEPHONE NO. 1-800-227-2600.
17. EDGE OF SLAB DIMENSIONS TO BE COORDINATED AND VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO FABRICATION.
18. THE CONTRACTOR SHALL ALLOW SUFFICIENT TIME FOR THE ENGINEER OF RECORD TO THOROUGHLY REVIEW SUBMITTAL PACKAGES (10 WORKING DAYS, MINIMUM) AND REQUESTS FOR INFORMATION (7 WORKING DAYS MINIMUM).

DIMENSIONS

1. DIMENSIONS SHALL BE DEFINED TO INCLUDE BOTH HORIZONTAL DIMENSIONS AND VERTICAL DIMENSIONS (ELEVATIONS).
2. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE. DRAWINGS SHALL NOT BE SCALED.
3. SEE ARCHITECTURAL DRAWINGS FOR DIMENSION NOT NOTED ON STRUCTURAL DRAWINGS.
4. SEE ARCHITECTURAL AND/OR CIVIL DRAWINGS FOR FINISH FLOOR ELEVATIONS.
5. SEE ARCHITECTURAL DRAWINGS FOR ALL TOP OF SHEATHING AND/OR ROOF ELEVATIONS.
6. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES.

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THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP A

STRUCTURAL COMPOSITE LUMBER

1. STRUCTURAL COMPOSITE LUMBER SHALL HAVE STRUCTURAL CAPACITIES AND DESIGN PROVISIONS ESTABLISHED AND MONITORED IN ACCORDANCE WITH ASTM D5456 PER CODE SECTION 2303.1.10
2. STRUCTURAL COMPOSITE LUMBER SHALL BE IDENTIFIED WITH THE MANUFACTURER'S NAME AND/OR LOGO, THE NAME AND OR LOGO OF THE INSPECTION AGENCY (PFS CORP , INTERTEK,OR APA-EWS) AND THE EVALUATION REPORT NUMBER, THE PLANT NUMBER, PRODUCT DESIGNATION OR TYPE, PRODUCTION DATE, AND GRADE.
3. INSTALLATION, FABRICATION, IDENTIFICATION AND CONNECTION DETAILS SHALL BE IN ACCORDANCE WITH THE APPLICABLE ICC REPORT.
4. LAMINATED VENEER LUMBER (LVL)
   A. LAMINATED VENEER LUMBER SHALL BE ONE OF THE FOLLWING:
      a. REDLAM LAMINATED VENEER LUMBER GRADE 2.0E DF/LP/WH, MANUFACTURED BY REDBUILT IN ACCORDANCE WITH ICC-ESR 2993.
   B. IDENTIFICATION: IN ADDITION TO THE IDENTIFICATION LISTED FOR STRUCTURAL COMPOSITE LUMBER ABOVE, LVL SHALL BE IDENTIFIED WITH THE SPECIES OR SPECIES GROUP.
5. PRODUCTS FROM OTHER MANUFACTURER'S MAY BE USED WITH EQUAL OR GREATER CAPACITIES. REQUESTS FOR PRODUCT SUBSTITUTION SHALL BE SUBMITTED AS REVISION/ADDENDUM/CONSTRUCTIVE CHANGE DIRECTIVE TO DSA FOR REVIEW AND APPROVAL, AND FOLLOW THE REQUIREMENTS LISTED IN THE SUBMITTALS SECTION.

STRUCTURAL GLUED LAMINATED TIMBER

1. STRUCTURAL GLUED LAMINATED TIMBER SHALL MEET THE FOLLOWING MINIMUM STANDARDS EXCEPT WHERE OTHERWISE NOTED:

STRUCTURAL GLUED LAMINATED TIMBER PROPERTIES [C]

USE	COMBINATION SYBMOL	SPECIES OUTER/CORE	RATING [B]	APPEARANCE	REFERENCE [A]
SIMPLE SPAN	24F-V4	DF/DF	AITC OR APA-EWS	SEE NOTE D	2022 CBC 2303.1.3 (AITC/ANSI 190.1-07 OR ANSI 190.1-12 AND ASTM D3737)

TABLE NOTES:

A. GLUED LAMINATED MEMBERS SHALL BE MANUFACTURED AS REQUIRED IN ASTM D 3737 AND EITHER OF THE FOLLOWING STANDARDS:
   a. ANSI 117-15 (CODE REFERENCED)
   b. ANSI 190.1-22 (CURRENT STANDARD)

B. STRUCTURAL GLUED LAMINATED TIMBERS SHALL BE IDENTIFIED WITH A STAMP BEARING THE AITC QUALITY MARK OR AWA-EPS TRADEMARK. PLACE STAMPS ON SURFACES THAT WILL NOT BE EXPOSED TO VIEW IN THE COMPLETED STRUCTURE. SUBMIT CERTIFICATES OF CONFORMANCE INDICATING THAT THE GLULAM MEMBERS CONFORM TO THE REQUIREMENTS OF ANSI

C. REFER TO GENERAL WOOD NOTES FOR PRESERVATIVE TREATMENT.

D. STRUCTURAL GLUED LAMINATED MEMBERS SHALL BE OF THE FOLLOWING APPEARANCE GRADES, UNO:
   a. INDUSTRIAL; TYPICAL EXPOSURE FOR MEMBERS NOT EXPOSED TO VIEW IN THE COMPLETED WORK.

2. ADHESIVES USED IN THE GLULAM MANUFACTURING PROCESS SHALL CONFORM TO ANSI 405-18 (PREVIOUSLY AITC 405), STANDARD FOR ADHESIVES FOR USE IN STRUCTURAL GLUED LAMINATED TIMBER. ADHESIVES SHALL BE A WET-USE ADHESIVE MEETING THE REQUIREMENTS OF ASTM D5229.
3. MEMBERS SHALL HAVE A SEALER ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS AFTER FABRICATION, END SEAL EACH END OF THE MEMBER IMMEDIATELY AFTER CUTTING.
4. PROVIDE CAMBER AS INDICATED ON THE DRAWINGS.
5. TRANSPORTATION, STORAGE, AND HANDLING:
   A. REFER TO AITC 111-05, RECOMMENDED PRACTICE FOR PROTECTION OF STRUCTURAL GLUED LAMINATED TIMBER DURING TRANSIT, STORAGE AND ERECTION.
      a. LOAD WRAP OR BUNDLE WRAP INDUSTRIAL APPEARANCE GRADE MEMBERS. ARCHITECTURAL OR PREMIUM GRADE MEMBERS SHALL BE WRAPPED INDIVIDUALLY AND REMAIN UNTIL PROTECTION IS NO LONGER REQUIRED FROM WEATHER, SUNLIGHT, SOILING, AND/OR OTHER TRADES. SLIT UNDERSIDE OF WRAPPINGS TO PREVENT ACCUMULATION OF MOISTURE.
   B. STORAGE:
      a. STORE GLULAM MEMBERS ON A FLAT SURFACE AT LEAST 6" ABOVE THE GROUND. PLACE SUPPORTS CLOSE ENOUGH TOGETHER TO PREVENT NOTICEABLE DEFLECTIONS.

PRE-FABRICATED WOOD I-JOIST NOTES

1. PREFABRICATED WOOD 'I' JOISTS SHALL HAVE STRUCTURAL CAPACITIES AND DESIGN PROVISIONS ESTABLISHED AND MONITORED IN ACCORDANCE WITH ASTM D5055 PER CODE SECTION 2303.1.2.
2. TJI SHALL BE AS MANUFACTURED BY REDBUILT AND THEIR MANUFACTURING AND INSTALLATION SHALL BE IN ACCORDANCE WITH ICC ESR 2994.
3. IDENTIFICATION: TJI'S SHALL BE IDENTIFIED BY A STAMP THAT INCLUDES THE PRODUCT DESIGNATION, EVALUATION REPORT (ICC-ESR 2994), MANUFACTURER'S NAME OR LOGO (TRUS JOIST, REDBUILT, PLANT NUMBER, PRODUCTION DATE AND INSPECTION AGENCY (PFS CORP OR APA)).
4. MATERIALS:
   A. FLANGES: FLANGE MATERIAL SHALL BE EITHER MICROLLAM LAMINATED VENEER LUMBER (LVL) IN ACCORDANCE WITH ICC ESR-2993.
   B. WEBS: WEB MATERIAL SHALL BE PERFORMANCE PLUS OSB CONFORMING TO DOC PS2, EXPOSURE 1 (REFER TO SHEATHING NOTES) AND FURTHER REQUIREMENTS PER THE REDBUILT MANUFACTURING STANDARDS.
5. PRODUCTS OF OTHER MANUFACTURERS WITH EQUAL OR GREATER CAPACITY MAY BE USED. SUBSTITUTIONS SHALL BE SUBMITTED AS REVISION/ADDENDUM/CONSTRUCTIVE CHANGE DIRECTIVE TO DSA FOR REVIEW AND APPROVAL, CLEARLY INDICATING NEW MEMBER CAPACITIES AND FOR WHICH MEMBER THEY ARE BEING SUBSTITUTED.
6. TRANSPORTATION, STORAGE, AND HANDLING:
   A. TRANSPORTATION
      a. IN TRANSPORTING MEMBERS ON OPEN TRUCK BEDS, COVER THE BUNDLES WITH A TARP.
      b. BUNDLES WRAPPED BY THE MANUFACTURER SHOULD REMAIN WRAPPED DURING TRANSPORTATION AND STORAGE.
   B. STORAGE
      a. STORE UNDER A ROOF, TARP OR WRAP IN A LOCATION WITH MINIMUM MOISTURE EXPOSURE.
      b. IF STORED OUTSIDE, PROTECT FROM ELEMENTS ON ALL SIDES.
      c. REPAIR ANY TEARS OR PUNCTURES IN THE PROTECTIVE WRAP WITH PRODUCT WRAP TAPE.
      d. ENSURE THAT NO WATER IS TRAPPED WITHIN THE WRAP BEFORE TAPING
      e. ALLOW PROPER VENTILATION WHEN COVERING WITH PLASTIC.
      f. USE SUPPORT BLOCKS AND STICKERS AT INTERVALS SPECIFIED BY THE MANUFACTURER TO PREVENT STORAGE CAMBER.
   C. HANDLING
      a. TJI'S SHOULD BE HANDLED IN A VERTICAL ORIENTATION.
      b. PROTECT THE EDGES AND ENDS FROM DAMAGE. KEEP THE LOAD LEVEL AND LIFT THE STACK FROM THE CENTER.
7. PROVIDE FULL DEPTH TJI BLOCKING FOR THE FOLLOWING CONDITIONS, UNLESS SHOWN OTHERWISE:
   A. BETWEEN JOISTS OVER SUPPORT.
   B. BETWEEN JOISTS OVER AND BELOW PARTITION WALLS.
8. WHEN GYPSUM CEILING IS NOT DIRECTLY APPLIED TO BOTTOM OF JOISTS, OR AS NOTED ON FRAMING PLANS, BRIDGING SHALL BE FULL DEPTH TJI BLOCKING, INSTALLED AS FOLLOWS:
   A. 'ROOF JOISTS: 12'-0" O.C. MAXIMUM, NOT MORE THAN 12'-0" FROM SUPPORT.

WOOD STRUCTURAL PANELS (SHEATHING)

1. WOOD STRUCTURAL PANELS SHALL MEET THE FOLLOWING MINIMUM STANDARDS EXCEPT WHERE OTHERWISE NOTED:

WOOD STRUCTURAL PANEL PROPERTIES

USE	PLY	BOND CLASSIFICATION [C]	SHEATHING GRADE	PERFORMANCE RATING	SPAN RATING	RATING [B]	REFERENCE [A]
ROOF	5	EXPOSURE 1	REFER TO TYPICAL DIAPHRAGM SCHEDULE			APA	2022 CBC 2303.1.5 (DOC PS 1-19 OR PS 2-18)
WALL	5	EXPOSURE 1	REFER TO TYPICAL SHEAR WALL SCHEDULE			APA	

TABLE NOTES:

A. WOOD STRUCTURAL PANELS SHALL CONFORM TO THE REQUIREMENTS FOR THEIR TYPE IN ACCORDANCE WITH THE FOLLOWING VOLUNTARY STANDARDS BY THE ENGINEERED WOOD ASSOCIATION (APA):
   a. VOLUNTARY PRODUCT STANDARD, STRUCTURAL PLYWOOD, PS 1-09
   b. VOLUNTARY PRODUCT STANDARD, PERFORMANCE STANDARD FOR WOOD-BASED STRUCTURAL-USE PANELS, PS 2-10

B. WOOD STRUCTURAL PANELS SHALL BE IDENTIFIED BY THE APA TRADEMARK INDICATING CONFORMANCE TO THE APPLICABLE VOLUNTARY STANDARD

C. WHERE PANELS ARE EXPOSED TO REPEATED WETTING AND REDRYING, LONG-TERM EXPOSURE TO WEATHER, OR CONDITIONS OF SIMILAR SEVERITY, "EXTERIOR" APA RATED PLYWOOD SHEATHING SHALL BE USED. C-D "EXPOSURE 1" APA RATED PLYWOOD SHEATHING (CDX) SHALL NOT BE USED FOR CONDITIONS INVOLVING LONG-TERM EXPOSURE TO WEATHER.
   a. EXCEPTION: WOOD STRUCTURAL PANEL ROOF SHEATHING EXPOSED TO THE OUTDOORS ON THE UNDERSIDE IS PERMITTED TO BE "EXPOSURE 1" TYPE.
   b. WOOD STRUCTURAL PANELS TO BE USED AS SIDING SHALL COMPLY WITH ANSI/APA PRP-210.

2. TRANSPORTATION, STORAGE, AND HANDLING:
   A. TRANSPORTATION
      a. IN TRANSPORTING PANELS ON OPEN TRUCK BEDS, COVER THE BUNDLES WITH A TARP.
   B. STORAGE
      a. ALWAYS STORE THE PANELS UNDER COVER WHENEVER POSSIBLE
      b. WHEN STORING PANELS OUTSIDE STACK THEM ON A LEVEL SURFACE ON TOP OF STRINGERS OR OTHER BLOCKING, THREE STRINGERS MINIMUM.
      c. NEVER LEAVE PANELS IN CONTACT WITH THE GROUND
      d. COVER THE STACK WITH A PLASTIC TARP, ENSURING THAT THE BUNDLE IS WELL VENTILATED TO PREVENT MILDEW.
      e. IF MOISTURE ABSORPTION IS EXPECTED, CUT THE STEEL BAND TO PREVENT DAMAGE
      f. KEEP SANDED OR OTHER APPEARANCE GRADE PANELS AWAY FROM HIGH TRAFFIC AREAS
   C. HANDLING
      a. ALWAYS PROTECT ENDS AND EDGES, ESPECIALLY TONGUE AND GROOVE PRODUCTS, FROM PHYSICAL DAMAGE.
      b. ACCLIMATIZE THE PANELS FOR 24 HOURS MINIMUM BEFORE INSTALLATION BY STANDING THE PANELS ON EDGE WITH A GAP BETWEEN EACH TO ALLOW FOR AIR CIRCULATION OR PER MANUFACTURER'S RECOMMENDATIONS.
3. PLYWOOD ORIENTATION
   A. ROOF AND FLOOR SHEATHING SHALL BE LAID WITH THE GRAIN OF THE OUTER PILES PERPENDICULAR TO THE FRAMING MEMBERS, SHALL BE CONTINUOUS OVER 2 JOIST BAYS MINIMUM AND END JOINTS SHALL BE JOINED OVER FRAMING AND STAGGERED. LEAVE A 1/8" GAP BETWEEN PANELS TO ALLOW FOR PANEL EXPANSION UNLESS RECOMMENDED OTHERWISE BY THE PANEL MANUF. REFER TO SPECIFIC DETAILS IN THE DRAWINGS FOR FURTHER PARAMETERS.
   B. PLYWOOD WALL SHEATHING MAY BE APPLIED VERTICALLY OR HORIZONTALLY. ALL END JOINTS BE JOINED OVER FRAMING AND STAGGERED.
4. BLOCKING:
   A. ROOF: ALL ROOF SHEATHING SHALL BE BLOCKED UNLESS SPECIFICALLY ALLOWED ON PLANS. WHERE PERMITTED TO BE UNBLOCKED, ALL UNBLOCKED EDGES SHALL BE TONGUE AND GROOVE.
   B. WALLS: ALL SHEAR WALLS SHALL BE FULLY BLOCKED AT PLYWOOD EDGES.
5. FASTENERS
   A. USE SHEATHING NAILS SAME GAUGE AS COMMON WIRE NAILS WITH LENGTHS AT LEAST EQUAL TO SHEATHING THICKNESS PLUS REQUIRED PENETRATION PER AWS SDPWS TABLE 4.2A OR 4.3A (AS REQUIRED).
   B. EQUIVALENT PNEUMATIC DRIVE NAILS MAY BE USED IF FASTENER MANUFACTURER HAS RECEIVED ICC OR IAPMO APPROVAL FOR THE INTENDED USE. FASTENERS TO BE SUBSTITUTED SHALL BE EQUIVALENT IN LATERAL AND WITHDRAWAL STRENGTH TO THE SIZE OF COMMON NAIL SPECIFIED.
   C. USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOB SITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD SHEATHING. IF NAIL HEADS PENETRATE THE OUTER PLY MORE T HAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.
   D. TYPICAL NAILING SHALL BE 10d AT 6" O.C. AT ALL SUPPORTED EDGES AND OVER SHEAR WALLS, AND 10D AT 12" O.C. AT ALL INTERMEDIATE SUPPORTS, UNLESS OTHERWISE NOTED, SEE PLANS AND REFER TO SHEAR WALL SCHEDULE.

SAWN LUMBER

1. FRAMING LUMBER SHALL MEET THE FOLLOWING MINIMUM STANDARDS EXCEPT WHERE OTHERWISE NOTED:

SAWN LUMBER PROPERTIES

USE	SIZE	SPECIES	GRADE	REFERENCE
MUDSILLS	2x4	D.F.	STANDARD OR BETTER PRESSURE TREATED	2022 CBC 2303.1.9
	2x6 AND LARGER	D.F.	NO. 2 OR BETTER PRESSURE TREATED	
	2x	REDWOOD	FOUNDATION GRADE	
HORIZONTAL FRAMING LUMBER				
ROOF JOISTS AND RAFTERS	2x	D.F.	NO. 2	WCLIB & WWPA
FLOOR JOISTS	2x	D.F.	NO. 2	
HEADERS AND BEAMS	4x	D.F.	NO. 2	
ANY OTHER HORIZONTAL	4x4 AND SMALLER	D.F.	NO. 2	
	6x6 AND LARGER	D.F.	NO. 1	
VERTICAL FRAMING LUMBER				
TOP PLATES	2x	D.F.	NO. 2	WCLIB & WWPA
STUDS	2x4 & 3x4	D.F.	STUD	
	2x6 & 2x8	D.F.	NO. 2	
POSTS	4x4 & 4x6 POSTS	D.F.	NO. 2	
	6x6 & LARGER POSTS	D.F.	NO. 1	
ALL OTHER FRAMING				
ALL OTHER FRAMING LUMBER, UNO	ALL SIZES	D.F.	STANDARD & BETTER	WCLIB & WWPA

2. SAWN LUMBER SHALL BE GRADE STAMPED "S-DRY" WHICH INDICATES A MOISTURE CONTENT NOT EXCEEDING 19 PERCENT.
3. ALL SOLE PLATES AND TOP PLATES SHALL BE GRADE STAMPED "KD" WHICH INDICATES KILN DRIED WITH A MOISTURE CONTENT NOT EXCEEDING 15 PERCENT AT BUILDINGS WITH 4 OR MORE STORIES.
4. STUD WALLS SHOWN ON PLANS ARE NONBEARING PARTITIONS WALLS, BEARING WALLS OR SHEAR WALLS BELOW THE FRAMING LEVEL, UNLESS NOTED OTHERWISE. STUDS SHALL BE SIZE AND SPACING AS NOTED IN THE DRAWINGS, SEE PLANS AND ARCHITECTURAL DRAWINGS. UNLESS OTHERWISE NOTED.
5. MINIMUM FRAMING NAILING SHALL CONFORM TO CBC TABLE 2304.10.2. ALL NAILS SHALL BE COMMON WIRE NAILS. PREDRILL NAIL HOLES TO 70% OF NAIL SHANK DIAMETER WHERE NAILING TENDS TO SPLIT WOOD.
6. UNLESS OTHERWISE NOTED, ALL WOOD SILL PLATES UNDER BEARING, EXTERIOR, OR SHEAR WALLS IN CONTACT WITH CONCRETE OR MASONRY SHALL BE BOLTED TO THE CONCRETE OR MASONRY WITH 5/8" Ø X 12" BOLTS W/ 0.229" X 3" X 3" PLATE WASHER (GALV) AT 4'-0" O.C. BEGINNING AT 9" O.C. MAXIMUM FROM EACH END OF THE PLATES. THE BOLTS SHALL EXTEND A MINIMUM OF 7" INTO THE CONCRETE OR MASONRY. (POWDER DRIVEN PINS AT 1/3 OF THE BOLT SPACING OR 24" O.C. MAXIMUM MAY BE SUBSTITUTED FOR THE ANCHOR BOLTS AT INTERIOR NON-SHEAR WALLS ONLY).
7. PRESERVATIVE TREATMENT:
   A. WOOD MEMBERS SHALL BE PRESERVATIVE TREATED IN ACCORDANCE WITH AITC 109-07, STANDARD FOR PRESERVATIVE TREATMENT, BASED ON THE SERVICE CONDITION PER THE USE CATEGORIES (UC#) SPECIFIED IN AWPA U1-20.
      a. UC1 - INTERIOR CONSTRUCTION, ABOVE GROUND, DRY - NO PRESERVATIVE TREATMENT REQUIRED.
      b. UC2 - INTERIOR CONSTRUCTION, ABOVE GROUND, WET - PRESERVATIVE TREATMENT REQUIRED IF THE HUMIDITY OR MOISTURE CONDENSATION IS 20% OR GREATER.
      c. UC3 - EXTERIOR CONSTRUCTION ABOVE GROUND - PRESERVATIVE TREATMENT REQUIRED.
   B. FOR ALL TREATED WOOD MEMBERS, ALL CUTS, HOLES OR INJURIES SUCH AS ABRASIONS OR HOLES FROM REMOVAL NAILS AND SPIKES WHICH MAY PENETRATE THE TREATED ZONE SHALL BE FIELD TREATED IN ACCORDANCE WITH AWPA M4-15. THE FOLLOWING FILED TREATMENTS SHALL BE USED:
      a. BORED HOLES: HOLES FOR CONNECTORS OR BOLTS MAY BE TREATED BY PUMPING COAL TAR ROOFING CEMENT MEETING ASTM D5643 INTO HOLES USING A GREASE GUN OR SIMILAR DEVICE.
      b. EXTERIOR: COPPER NAPHTHENATE.
      c. INTERIOR: INORGANIC BORON PRESERVATIVES LIMITED TO USE IN APPLICATIONS NOT IN CONTACT WITH GROUND AND CONTINUOUSLY PROTECTED FROM LIQUID WATER.
   C. ALL LUMBER IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED LUMBER WITH AWPA TREATMENT C2 USING EITHER ALKALINE QUAT (ACQ TYPE B AND D), COPPER AZOLE (CBA-A, CA-B), OR SODIUM BORATES (SBX). ANCHOR BOLTS, FASTENERS, AND METAL FRAMING CONNECTORS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT-DIPPED GALVANIZED TO A RATING OF G-185 PER ASTM A653.
8. PROVIDE 2 STUDS UNDER ALL 4 X 10 AND LARGER BEAMS OR HEADERS AT SPANS 6 FEET OR LONGER, UNLESS OTHERWISE NOTED. WHERE POSTS OR MULTIPLE STUDS UNDER BEAMS OR HEADERS ARE CALLED FOR ON DRAWINGS THOSE POSTS OR MULTIPLE STUDS SHALL BE CARRIED TO THE FOUNDATION.
9. PROVIDE THE FOLLOWING BLOCKING AS A MINIMUM, UNLESS SHOWN OTHERWISE:
   2x FULL DEPTH SOLID BLOCKING BETWEEN JOISTS OVER SUPPORT.
   2x FULL DEPTH SOLID BLOCKING BETWEEN JOISTS OVER AND BELOW PARTITION WALLS.
10. BRIDGING SHALL BE 2 X SOLID BLOCKS, INSTALLED AS FOLLOWS:
    ROOF JOISTS MORE THAN 10" DEPTH, 8'-0" O.C. MAXIMUM, NOT MORE THAN 8'-0" FROM SUPPORT.
11. JOIST HANGERS AND OTHER METAL FRAMING ACCESSORIES ARE REFERRED TO ON PLANS BY PARTICULAR TYPE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, STOCKTON, CALIFORNIA. ACCESSORIES OF OTHER MANUFACTURES WITH EQUIVALENT LOAD CARRYING CHARACTERISTICS MAY BE USED WITH APPROVAL BY SEOR.
12. FIRE STOPPING, BACKING FOR INTERIOR FINISHES, NONBEARING WALLS, AND OTHER NON-STRUCTURAL FRAMING ARE NOT NECESSARILY SHOWN ON STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS.
13. THE TOP OF NON-BEARING WALLS SHALL NOT BE IN CONTACT WITH JOISTS/TRUSSES/RAFTERS ABOVE. REFER TO THE REFERENCED DETAILS FOR REQUIRED GAP, 1/2" MINIMUM, UNLESS NOTED OTHERWISE IN DETAIL.

HARDWARE AND CONNECTORS

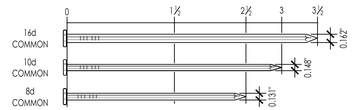
GENERAL:
USE ALL SPECIFIED FASTENERS AS SPECIFIED ON PLANS, IF NOT INDICATED ON PLANS PROVIDE FASTENERS PER MFR'S APPROVED ICC-ESR REPORT OR PRODUCT LITERATURE

HOLDOWNS:
1. DO NOT OVER TIGHTEN NUTS ON TIE-DOWN ANCHOR RODS OR BOLTS. TIGHTEN ANCHOR ROD NUTS ONE-THIRD TO ONE HALF TURN BEYOND FINGER TIGHT
2. INSTALL ALL HOLDOWNS TIGHT TO END STUDS/POST. DO NOT USE FILLER BLOCKS. FOR MISALIGNED ANCHOR BOLTS, EXTEND THE ANCHOR ROD AT A 1:6 (HORIZ/VERT) USING A COUPLER WITH EQUIVALENT ANCHOR ROD AND INSTALL THE HOLDOWN HIGHER ON END STUD / POST
3. FOR HOLDOWNS THAT BOLT TO END POSTS, INSTALL THE HEAD OF THE BOLT TO THE BRACKET SIDE, AND ON THE SIDE OPPOSITE THE BRACKET, INSTALL A WASHER BETWEEN THE NUT AND THE STUD / POSTS

TIE DOWN & COLLECTOR STRAPS:
1. TIE DOWN AND COLLECTOR STRAPS SHALL BE INSTALLED STRAIGHT AND TRUE. DO NOT FOLD, BEND, KINK OR OTHERWISE ALTER CONNECTOR STRAPS
2. INSTALL TIE DOWN STRAPS DIRECT TO POST IN LIEU OF OVER SHEATHING. STRAPS MAY BE INSTALLED ON THE UNSHEATHED SIDE OF THE END STUDS / POSTS

FASTENER INFORMATION

1. ALL NAILS SPECIFIED TO BE COMMON NAILS, UNLESS SPECIFIED OTHERWISE.



STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED BY AN APPROVED AND LICENSED FABRICATOR IN ACCORDANCE WITH AISC 360-16 AND CHAPTER 22A OF THE CODE.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO THE ASTM DESIGNATION AS INDICATED BELOW (UNO):

STRUCTURAL STEEL MATERIALS

SHAPE	ASTM/GRADE
PLATES (INCLUDING BASE PLATES)	A572 GR 50
HSS	A500 GR B
ANCHOR RODS (UNLESS NOTED ON DRAWINGS)	F1554 GR 36
COMMON/MACHINE BOLTS	A307 GR A

3. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STEEL FOR REVIEW AND APPROVAL BY THE AOR AND SEOR PRIOR TO FABRICATION.
4. BOLT HOLES USED IN STEEL SHALL BE 1/16" LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLT USED, EXCEPT AS NOTED.
5. ALL STRUCTURAL STEEL SURFACES THAT ARE ENCASED IN CONCRETE, MASONRY, SPRAY ON FIREPROOFING, OR ARE ENCASED BY BUILDING FINISH, SHALL BE LEFT UNPAINTED, EXCEPT AS REQUIRED FOR DESIGNATION OF PROTECTED ZONES.
6. PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED TO REINFORCED CONCRETE/MASONRY USING POST-INSTALLED ANCHORS, CONTRACTOR SHALL LOCATE ALL REINFORCEMENT AND CONFIRM CONSTRUCTABILITY OF ANCHOR LOCATIONS. SHOULD CONFLICTS WITH REINFORCEMENT OCCUR, CONTRACTOR SHALL COORDINATE AND SUBMIT ALTERNATE ANCHOR LOCATIONS AND REVISED STEEL FABRICATIONS TO SEOR FOR REVIEW AND APPROVAL. DO NOT CUT OR DAMAGE EXISTING REINFORCEMENT.
7. REFER TO ARCHITECTURAL DRAWINGS FOR STEEL FINISH. ALL STRUCTURAL STEEL AND MISCELLANEOUS METAL EXPOSED TO THE WEATHER SHALL BE HOT DIP GALVANIZED AFTER FABRICATION. PROTECT FIELD WELDS EXPOSED TO THE WEATHER VIA PRIME AND PAINT OR BRUSH / COLD GALVANIZING. REFER TO ARCH DRAWINGS FOR STEEL FINISH.
8. ALL ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL CONFORM TO REQUIREMENTS OF AISC 303-22.
9. ALL WELDING IS TO BE DONE BY CERTIFIED WELDERS USING E70XX ELECTRODES (UNO). ALL WELDS SHALL BE IN CONFORMANCE WITH THE PROJECT SPECIFICATIONS AND THE CODE FOR WELDING IN BUILDING CONSTRUCTION (AWS D1.1-15) OF THE AMERICAN WELDING SOCIETY. SEE SPECIAL INSPECTIONS SECTION FOR WELDING INSPECTION REQUIREMENTS.
10. THE CONTRACTOR SHALL SUBMIT ALL WELDING PROCEDURE SPECIFICATIONS FOR REVIEW AND APPROVAL BY SEOR. THE SUBMITTED WELDING PROCEDURES SHALL INCLUDE ONLY THOSE PROCEDURES RELEVANT TO THIS PROJECT. ALL WELDED JOINTS SHALL BE PREQUALIFIED PER AWS OR BE QUALIFIED BY TEST PER AWS. A PROCEDURE QUALIFICATION RECORD (PQR) SHALL BE INCLUDED WITH THE WPS IF THE WELDING PROCEDURE OR JOINT IS QUALIFIED BY TESTING. THE ELECTRODE MANUFACTURER AND PRODUCT/TRADE NAME SHALL BE IDENTIFIED IN THE WPS IN ADDITION TO THE AWS ELECTRODE CLASSIFICATION NAME. A COPY OF THE ELECTRODE MANUFACTURER'S TECHNICAL DATA SHEETS WITH THE RECOMMENDED WELDING PARAMETERS SHALL BE SUBMITTED WITH THE WPS.
11. IF INTERMIXING OF WELD FILLER MATERIAL IS REQUIRED AT SPECIFIC WELDED JOINTS, AND IF ONE OF THE FILLER METALS IS FCAW-S, SUBMIT A WELDING PROCEDURE SPECIFICATION (WPS) AND QUALIFY BY TESTING.
12. DISCONTINUITIES IN WELDS CREATED BY ERRORS OR BY FABRICATION OR ERECTION OPERATIONS, SUCH AS TACK WELDS, ERECTION AIDS, AIR ARC GOUGING AND FLAME CUTTING SHALL BE REPAIRED AS REQUIRED BY SEOR.

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GENERAL NOTES

NO.	REVISION	DATE
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DRAWN BY: C. PRESSLER
CHECKED BY: J. MEADOWS
DATE: APRIL 23, 2026
PROJECT NUMBER: 0822-03-ED25
SHEET: S-103

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TESTING CRITERIA FOR POST-INSTALLED ANCHORS IN CONCRETE

1. CONDUCT TESTING OF POST- INSTALLED ANCHORS PER SECTION 1901A.3.4 OF THE CODE.

2. WHERE THE MANUFACTURER'S INSTALLATION INSTRUCTIONS OR APPLICABLE ICC-ES EVALUATION SERVICES REPORT CALL FOR THE APPLICATION OF AN INSTALLATION TORQUE, THE SPECIFIED TORQUE SHALL BE APPLIED WITH A CALIBRATED TORQUE WRENCH. THE SPECIFIED INSTALLATION TORQUE SHALL NOT BE EXCEEDED.

3. THE SPECIAL INSPECTOR SHALL BE ON THE JOBSITE DURING ANCHOR INSTALLATIONS AS REQUIRED PER CHAPTER 17A OF THE CODE, UNLESS OTHERWISE NOTED IN ICC-ES ESR, TO VERIFY ANCHOR, ANCHOR DIMENSIONS, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, HOLE DIMENSIONS, ANCHOR SPACING, EDGE DISTANCES, SLAB THICKNESS, ANCHOR EMBEDMENT, AND INSTALLATION TORQUE.

4. TEST LOAD: REQUIRED TEST LOADS SHALL BE DETERMINED BY ONE OF THE FOLLOWING METHODS:

   A. TWICE THE MAXIMUM ALLOWABLE TENSION LOAD OR ONE AND A QUARTER (1 1/4) TIMES THE MAXIMUM DESIGN STRENGTH PROVIDED BY THE ICC REPORT OR DETERMINED PER ACI 318. THE TENSION TEST LOAD NEED NOT TO EXCEED 80 PERCENT OF THE NOMINAL YIELD STRENGTH OF THE ANCHOR (0.8 As Fy). SEE STRUCTURAL DETAILS FOR DESIGN-BASED TENSION TEST LOADS FOR ADHESIVE ANCHORS.

   B. THE MANUFACTURER'S RECOMMENDED INSTALLATION TORQUE AS APPROVED BY THE ICC REPORT.

5. TENSION OR TORQUE TESTING OF POST-INSTALLED ANCHORS SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO THE IOR AND ENFORCEMENT AGENCY.

6. THE SPECIAL INSPECTOR SHALL SELECT ANCHORS FOR TESTING AT RANDOM.

7. TEST FREQUENCY:

APPLICATION	QUANTITY
STRUCTURAL	100% OF BOLTS
NON-STRUCTURAL (SUCH AS EQUIPMENT ANCHORAGE)	50%; ALTERNATE BOLTS IN A GROUP (TEST AT LEAST HALF OF THE ANCHORS IN GROUP)
SILL PLATE BOLTING	10% OF BOLTS

   EXCEPTIONS:

   A. UNDERCUT ANCHORS THAT ALLOW VISUAL CONFIRMATION OF FULL SET SHALL NOT REQUIRE TESTING.

   B. WHERE THE FACTORED DESIGN TENSION ON ANCHORS IS LESS THAN 100 LBS AND THOSE ANCHORS ARE CLEARLY NOTED ON THE APPROVED CONSTRUCTION DOCUMENTS.

   C. WHERE ADHESIVE ANCHOR SYSTEMS ARE USED TO INSTALL REINFORCING DOWEL BARS IN HARDENED CONCRETE, ONLY 25 PERCENT OF THE DOWELS SHALL BE TESTED IF ALL OF THE FOLLOWING CONDITIONS ARE MET:

      - THE DOWELS ARE USED EXCLUSIVELY TO TRANSMIT SHEAR FORCES ACROSS JOINTS BETWEEN EXISTING AND NEW CONCRETE.
      - THE NUMBER OF DOWELS IN ANY ONE MEMBER EQUALS OR EXCEEDS 12.
      - THE DOWELS ARE UNIFORMLY DISTRIBUTED ACROSS SEISMIC FORCE RESISTING MEMBERS (SUCH AS SHEAR WALLS, COLLECTORS, AND DIAPHRAGMS).

   D. TESTING OF SHEAR DOWELS ACROSS COLD JOINTS IN SLAB ON GRADE, WHERE THE SLAB IS NOT PART OF THE LATERAL FORCE-RESISTING SYSTEM SHALL NOT BE REQUIRED.

   E. TESTING IS NOT REQUIRED FOR POWER ACTUATED FASTENERS USED TO ATTACH TRACKS OF INTERIOR NON-SHEAR WALL PARTITIONS FOR SHEAR ONLY, WHERE THERE ARE AT LEAST THREE FASTENERS PER SEGMENT OF TRACK.

8. TEST METHODS: TEST LOADS MAY BE APPLIED BY ANY METHOD THAT WILL EFFECTIVELY TRANSMIT A MEASURABLE TENSION LOAD TO THE ANCHOR. ACCEPTABLE METHODS INCLUDE:

   A. USE OF HYDRAULIC JACK, WHEREBY EITHER UNCONFINED OR CONFINED TESTING SHALL BE ACCEPTABLE;

   B. USE OF CALIBRATED SPRING LOADED DEVICES; OR

   C. USE OF A CALIBRATED TORQUE WRENCH FOR TORQUE-CONTROLLED EXPANSION ANCHORS.

9. TEST ACCEPTANCE CRITERIA: ACCEPTANCE CRITERIA FOR POST-INSTALLED ANCHORS SHALL BE BASED ON THE ICC REPORT OR MANUFACTURER'S WRITTEN INSTRUCTION AS ACCEPTABLE TO OSHPD. FIELD TESTS SHALL SATISFY THE FOLLOWING MINIMUM REQUIREMENTS:

   A. HYDRAULIC RAM METHOD: ANCHORS TESTED WITH A HYDRAULIC JACK OR SPRING LOADED DEVICES SHALL MAINTAIN THE TEST LOAD FOR A MINIMUM OF 15 SECONDS AND SHALL EXHIBIT NO DISCERNABLE MOVEMENT DURING THE TENSION TEST, E.G. AS EVIDENCED BY LOOSENING OF THE WASHER UNDER THE NUT. SCREW ANCHORS MAY BE LOOSENED A MAXIMUM ONE FULL TURN TO FACILITATE THE POSITIONING OF A TENSION TEST COLLAR.

   B. TORQUE WRENCH METHOD: ANCHORS TESTED WITH A CALIBRATED TORQUE WRENCH MUST ATTAIN THE SPECIFIED TORQUE WITHIN HALF (1/2) TURN OF THE NUT.

      EXCEPTIONS:

      - WEDGE OR SLEEVE TYPE: ONE-QUARTER (1/4) TURN OF THE NUT FOR A 3/8 INCH ANCHOR ONLY.
      - THREADED TYPE: ONE-QUARTER (1/4) TURN OF THE SCREW AFTER INITIAL SEATING OF THE SCREW HEAD.

10. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE, INSTALLED BY THE SAME TRADE, AND NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE ANCHORS PASS, THEN RESUME INITIAL TEST FREQUENCY.

11. REQUIRED TORQUE TEST LOADS SHALL BE EQUAL TO THE MANUFACTURER'S RECOMMENDED INSTALLATION TORQUE PROVIDED IN THE ICC-ESR FOR THE SPECIFIC ANCHOR. TEST TORQUE VALUES ARE SUMMARIZED IN THE TABLE BELOW:

SIMPSON		
NOMINAL ANCHOR DIAMETER	INSTALLATION TORQUE (FT-LBS) CONCRETE SUBSTRATE	
INCHES	SIMPSON STRONG-BOLT2 (ICC ES ESR 3037)	SIMPSON TITEN HD (ICC ES ESR-2713)
¼	4	24
⅜	30	50
½	60	65
⅝	90	100
¾	150	150

HILTI		
NOMINAL ANCHOR DIAMETER		INSTALLATION TORQUE (FT-LBS) CONCRETE SUBSTRATE
INCHES	METRIC	HILTI KWIK-BOLT TZ2 (ICC ES ESR-4266) STAINLESS STEEL
¼	M6	--
⅜	M10	30
½	M12	40
⅝	M16	60
¾	M20	125

POST-INSTALLED ANCHORS IN CONCRETE

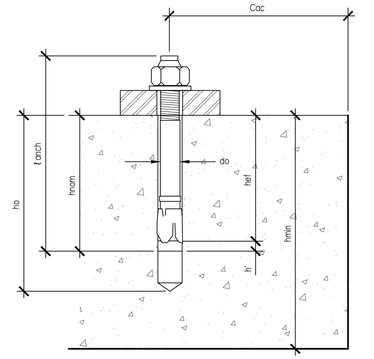
1. POST-INSTALLED ANCHOR CAPACITIES SHALL BE DETERMINED PER SECTION 1909A OF THE CODE USING STRENGTH DESIGN. POST INSTALLED ANCHORS IN CONCRETE USED FOR COMPONENT ANCHORAGE SHALL BE PREQUALIFIED FOR SEISMIC APPLICATIONS IN ACCORDANCE WITH ACI 355.2. POST INSTALLED ANCHORS IN MASONRY SHALL BE PREQUALIFIED FOR SEISMIC APPLICATIONS IN ACCORDANCE WITH APPROVED QUALIFICATION PROCEDURES.

2. INSTALLATION OF POST-INSTALLED ANCHORS SHALL BE IN ACCORDANCE WITH THE APPLICABLE ICC EVALUATION REPORT.

SUBSTRATE MATERIAL	ANCHOR TYPE	ANCHOR PRODUCT	ICC EVALUATION REPORT	ACCEPTANCE CRITERIA
CONCRETE	EXPANSION ANCHORS	SIMPSON STRONGBOLT 2	ICC ESR-3037	AC193
CONCRETE	SCREW ANCHOR	SIMPSON TITEN HD	ICC ESR-2713	AC193
CONCRETE	ADHESIVE ANCHORS	SIMPSON SET-3G	ICC ESR-4057	AC193
CONCRETE	POWER ACTUATED FASTENER**	SIMPSON PDPAW	ICC ESR-2138	AC70
CONCRETE	EXPANSION ANCHORS	HILTI KB-TZ2	ICC ESR-4266	AC193

3. EXPANSION ANCHOR EMBEDMENTS IN THE DRAWINGS ARE MINIMUM "EFFECTIVE EMBEDMENTS" (hef) AS SHOWN IN THE ICC REPORT CORRESPONDING TO THE ANCHOR.

   hef = EFFECTIVE EMBEDMENT DEPTH OF ANCHOR
   hmin = MINIMUM SUBSTRATE THICKNESS INTO WHICH ANCHOR IS EMBEDDED
   Cac = CRITICAL SUBSTRATE EDGE DISTANCE
   ho = MINIMUM HOLE DEPTH
   lanch = ANCHOR LENGTH
   h' = PROJECTION OF ANCHOR BEYOND EFFECTIVE EMBEDMENT DEPTH
   do = DIAMETER OF ANCHOR (EQUAL TO THREAD SIZE OF ANCHOR)
   hnom = NOMINAL EMBEDMENT DEPTH OF ANCHOR



4. LOCATE ALL EXISTING REINFORCEMENT BY NON-DESTRUCTIVE MEANS (X-RAY, PACOMETER, GPR, ETC.) PRIOR TO DRILLING OR INSTALLING POST-INSTALLED ANCHORS. COORDINATE POST-INSTALLED ANCHOR LOCATIONS WITH LOCATIONS OF EXISTING REINFORCEMENT. DO NOT CUT OR DAMAGE EXISTING REINFORCEMENT.

5. ALL POST-INSTALLED ANCHORS USED IN DRY INTERIOR CONDITIONS SHALL BE CARBON STEEL, U.N.O

6. ALL POST-INSTALLED ANCHORS USED AT EXTERIOR CONDITIONS, EXPOSED TO THE ELEMENTS, OR USED IN A DAMP ENVIRONMENT (I.E. KITCHENS) SHALL BE STAINLESS STEEL, U.N.O.

7. WHERE POST-INSTALLED MECHANICAL ANCHORS ARE USED FOR NON-VIBRATION ISOLATED MECHANICAL EQUIPMENT RATED OVER 10 HP, THEY SHALL BE QUALIFIED IN ACCORDANCE WITH ACI 355.2.

8. IF THE CONCRETE CRACKS DURING THE INSTALLATION OF AN ANCHOR, THE ANCHOR SHALL BE REMOVED OR ABANDONED.

9. ABANDONED ANCHORS AND ABANDONED ANCHOR HOLES:

   A. FILL ALL EMPTY ABANDONED ANCHOR HOLES WITH A DRY-PACK MORTAR.

   B. FOR ABANDONED EXPANSION ANCHORS WHICH CANNOT BE REMOVED WITHOUT DAMAGING THE SUBSTRATE, CUT/BURN OFF THE END OF THE BOLT FLUSH WITH THE FACE OF CONCRETE/MASONRY AND THEN DRIVE ABANDONED ANCHOR TO BOTTOM OF HOLE. FILL REMAINDER OF HOLE WITH A DRY-PACK MORTAR.

   C. FOR ABANDONED ADHESIVE OR UNDERCUT ANCHORS WHICH CANNOT BE REMOVED WITHOUT DAMAGING THE SUBSTRATE, BURN OFF THE END OF THE BOLT/ROD 1" BELOW THE SURFACE OF CONCRETE/MASONRY AND FILL REMAINDER OF HOLE WITH A DRY-PACK MORTAR.

   D. ABANDONED ANCHOR HOLES (WHETHER FILLED WITH DRY-PACK OR CONTAINING ABANDONED ANCHORS) MAY NOT BE LOCATED ANY CLOSER THAN 3x DIAMETER CENTER-TO-CENTER TO ANY ANCHOR IN SERVICE. ANCHORS NOT MEETING THIS MINIMUM SPACING MAY HAVE REDUCED CAPACITY AND SHALL BE REVIEWED WITH THE SEOR.

   LIMITATIONS OF USE OF POWER ACTUATED FASTENERS:

   PER SECTION 13.4.5 OF ASCE 7-16 POWER ACTUATED FASTENERS IN CONCRETE OR STEEL SHALL NOT BE USED FOR SUSTAINED TENSION LOADS OR FOR BRACE APPLICATIONS IN SEISMIC UNLESS APPROVED FOR SEISMIC LOADING. POWER ACTUATED FASTENERS IN MASONRY SHALL NOT BE PERMITTED UNLESS APPROVED FOR SEISMIC LOADING.
   EXCEPTION: POWER ACTUATED FASTENERS IN CONCRETE USED FOR SUPPORT OF ACOUSTICAL TILE OR LAY-IN PANEL SUSPENDED CEILING APPLICATIONS AND DISTRIBUTED SYSTEMS WHERE THE SERVICE LOAD ON ANY INDIVIDUAL FASTENER DOES NOT EXCEED 90 LB.

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GENERAL NOTES

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PROJECT MANAGER: J. MEADOWS
DRAWN BY: C. PRESSLER
CHECKED BY: J. MEADOWS
DATE: APRIL 23, 2026
PROJECT NUMBER: 0822-03-ED25
SHEET: S-104

DSA BACK CHECK 2

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REQUIRED VERIFICATION AND INSPECTIONS

SOILS
CODE TABLE 1705A.6

SPECIAL INSPECTION OR TEST	CONTINUOUS	PERIODIC
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. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT 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

WOOD
CODE CHAPTER 17A AND REFERENCED 2018 NDS AND AWC SDPWS-2021

SPECIAL INSPECTION OR TEST	CONTINUOUS	PERIODIC	CBC REFERENCE
3. WOOD LATERAL FORCE-RESISTING SYSTEM - WOOD SHEAR WALLS - WOOD DIPHRAGMS - DRAG STRUTS - HOLD-DOWNS	—	X	1705A.12.2 1705A.13.2

REQUIRED VERIFICATION AND INSPECTIONS

CONCRETE CONSTRUCTION
CODE TABLE 1705.3

SPECIAL INSPECTION OR TEST	CONTINUOUS	PERIODIC	REFERENCED STANDARD	CBC REFERENCE
1. INSPECT REINFORCMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	—	X	ACI 318: CH 20, 25.2, 25.3, 26.6.1-26.6.3	—
2. REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM $\frac{5}{16}$" AND c. INSPECT ALL OTHER WELDS	— — X	X X —	AWS D1.4 ACI 318: 26.6.4	—
3. INSPECT ANCHORS CAST IN CONCRETE	—	X	ACI 318: 26.7	—
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS [b] (a) ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS (b) MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	X —	— X	ACI 318: 26.7.1 ACI 318: 26.7.1	— —
5. VERIFY USE OF REQUIRED MIX DESIGN	—	X	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	—	ASTM C 172 ASTM C 31 ACI 318: 26.5, 26.12	—
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	—	ACI 318: 26.5	—
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	—	X	ACI 318: 26.5.3-26.5.5	—
9. INSPECT PRESTRESSED CONCRETE FOR: A. APPLICATION OF PRESTRESSING FORCES; AND B. GROUTING OF BONDED PRESTRESSING TENDONS	X X	— —	ACI 318: 26.10	—
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	—	X	ACI 318: 26.9	—
11. 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: 26.11.2	—
12. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	—	X	ACI 318: 26.11.1.2 (b)	—
SPECIAL INSPECTIONS LISTED FOR CONCRETE ALSO APPLY TO GROUTING OPERATIONS.				

a. WHERE APPLICABLE, SEE SECTION 1705.13.

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.

REQUIRED VERIFICATION AND INSPECTIONS

STEEL
WELDING

INSPECTION TASKS PRIOR TO WELDING *(AISC 360-16 N.5.4-1)*	QC	QA	AWS 2015 D1.1 REFERENCE
1. WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	P	P	6.3
2. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAIALABLE	P	P	6.2
3. WPS AVAILABLE	P	P	-
4. MATERIAL IDENTIFICATION (TYPE/GRADE)	O	O	6.2
5. WELDER IDENTIFICATION SYSTEM	O	O	6.4
6. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) - JOINT PREPARATION - DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) - CLEANLINESS (CONDITION OF STEEL SURFACES) - TACKING (TACK WELD QUALITY AND LOCATION) - BACKING TYPE AND FIT (IF APPLICABLE)	O	O	6.5.2 5.22 5.15 5.18 5.10, 5.22.1.1
7. FIT-UP OF GROOVE WELDS OF HSS T-, Y-, AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY) - JOINT PREPARATION - DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) - CLEANLINESS (CONDITION OF STEEL SURFACES) - TACKING (TACK WELD QUALITY AND LOCATION)	P	O	- - - -
8. CONFIGURATION AND FINISH OF ACCESS HOLES	O	O	6.5.2, 5.1.7 & AISC 360-16 J1.6
9. FIT-UP OF FILLET WELDS - DIMENSIONS (ALIGNMENT, GAPS AT ROOT) - CLEANLINESS (CONDITION OF STEEL SURFACES) - TACKING (TACK WELD QUALITY AND LOCATION)	O	O	5.22.1 5.15 5.18
10. CHECK WELDING EQUIPMENT	O	—	6.2, 5.11
INSPECTION TASKS DURING WELDING *(AISC 360-16 N.5.4-2)*			
1. CONTROL AND HANDLING OF WELDING CONSUMABLES -PACKAGING -EXPOSURE CONTROL	O	O	6.2 5.3.1 5.3.2 (SMAW) 5.3.3 (SAW)
2. NO WELDING OVER CRACKED TACK WELDS	O	O	5.18
3. ENVIRONMENTAL CONDITIONS - WIND SPEED WITHIN LIMITS - PRECIPITATION AND TEMPERATURE	O	O	5.12.1 5.12.2
4. WPS FOLLOWED - SETTINGS ON WELDING EQUIPMENT - TRAVEL SPEED - SELECTED WELDING MATERIALS - SHIELDING GAS TYPE/FLOW RATE - PREHEAT APPLIED - INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) - PROPER POSITIONS (F, V, H, OH)	O	O	6.3.3, 6.5.2, 5.5, 5.21 5.6, 5.7
5. WELDING TECHNIQUES - INTERPASS AND FINAL CLEANING - EACH PASS WITHIN PROFILE LIMITATIONS - EACH PASS MEETS QUALITY REQUIREMENTS	O	O	6.5.2, 6.5.3, 5.24 5.30.1
6. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	P	P	-
INSPECTION TASKS AFTER WELDING *(AISC 360-16 N.5.4-3)*			
1. WELDS CLEANED	O	O	5.30.1
2. SIZE, LENGTH AND LOCATION OF WELDS	P	P	6.5.1
3. WELDS MEET VISUAL ACCEPTANCE CRITERIA - CRACK PROHIBITION - WELD/BASE-METAL FUSION - CRATER CROSS SECTION - WELD PROFILES - WELD SIZE - UNDERCUT - POROSITY	P	P	6.5.3 TABLE 6.1(1) TABLE 6.1(2) TABLE 6.1(3) TABLE 6.1(4), 5.24 TABLE 6.1(6) TABLE 6.1(7) TABLE 6.1(8)
4. ARC STRIKES	P	P	5.29
5. k-AREA	P	P	AISC 360-16 CA3.1c & J10.8
6. WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES [c]	P	P	-
7. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P	P	5.10, 5.31
8. REPAIR ACTIVITIES	P	P	6.5.3, 5.26
9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P	6.5.4, 6.5.5
10. NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR	O	O	-

STEEL
BOLTING

INSPECTION TASKS PRIOR TO BOLTING *(AISC 360-16 N.5.6-1)*	QC	QA	2014 RCSC SPEC. REFERENCE
1. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	P	2.1, 9.1
2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O	FIGURE C-2.1, 9.1 (SEE ASTM STANDARDS)
3. CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	O	O	2.3.2, 2.7.2, 9.1
4. CORRECT BOLTING DETAILS SELECTED FOR THE JOINT DETAIL.	O	O	4, 8
5. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS.	O	O	3, 9.1, 9.3
6. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED.	P	O	7, 9.2
7. PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS	O	O	2.2, 8, 9.1
INSPECTION TASKS DURING BOLTING *(AISC 360-16 N.5.6-2)*			
1. FASTENER ASSEMBLIES, PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED.	O	O	8.1, 9.1
2. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRE-TENSIONING OPERATION	O	O	8.1, 9.1
3. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	O	8.2, 9.2
4. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES.	O	O	8.2, 9.2
INSPECTION TASKS AFTER BOLTING *(AISC 360-16 N.5.6-3)*			
1. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P	P	—

O - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
P - PERFORM THESE TAKS FOR EACH WELDED JOINT OR MEMBER, EACH BOLTED CONNECTION, OR STEEL ELEMENT.

REFER TO CONCRETE TABLE FOR REQUIRED GROUTING INSPECTIONS BELOW BASE PLATES.

SUBMITTALS

1. THE FOLLOWING SUBMITTALS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY THE ENGINEER:
   A. STEEL INCLUDING MISC. METALS
      a. SHOP DRAWINGS FOR FABRICATION AND ERECTION
      b. WELD PROCEDURES (INCLUDING PREQUALIFICATION RECORDS), TO BE SUBMITTED TO PROJECT CWI
      c. SHOP DRAWINGS FOR FABRICATION AND PLACEMENT

   B. REINFORCING STEEL

   C. CONCRETE MIX DESIGNS FOR ALL CONCRETE STRENGTHS 3,000 PSI AND ABOVE

   D. ROUGH CARPENTRY: WOOD PRODUCT DATA AND MANUFACTURER'S CERTIFICATES

2. BEFORE SUBMITTING EACH SUBMITTAL, (INCLUDES SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS), THE CONTRACTOR SHALL HAVE:
   A. REVIEWED AND COORDINATED EACH SUBMITTAL WITH OTHER SUBMITTALS AND WITH THE REQUIREMENTS OF THE WORK AND THE CONTRACT DOCUMENTS. THIS INCLUDES THE CONTRACTOR REVIEWING AND VERIFYING THAT THE SUBMITTAL IS COORDINATED AMONG ALL CONSTRUCTION TRADES:

   B. DETERMINED AND VERIFIED ALL FIELD MEASUREMENTS, QUANTITIES, DIMENSIONS , SPECIFIED PERFORMANCE AND DESIGN CRITERIA, INSTALLATION REQUIREMENTS, MATERIALS, CATALOG NUMBERS AND SIMILAR INFORMATION

   C. DETERMINED AND VERIFIED ALL INFORMATION RELATIVE TO THE CONTRACTOR'S RESPONSIBILITIES FOR MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION, AND SAFETY PRECAUTIONS AND PROGRAMS.

   D. REVIEWED AND VERIFIED THAT THE ARCHITECT'S OR ENGINEER'S COMMENTS FROM PREVIOUS SUBMITTAL ROUNDS HAVE BEEN ADDRESSED.

3. EACH SUBMITTAL SHALL BEAR A STAMP OR SPECIFIC WRITTEN CERTIFICATION THAT THE CONTRACTOR HAS SATISFIED THEIR OBLIGATIONS UNDER THE CONTRACT DOCUMENTS WITH RESPECT TO THE CONTRACTOR'S REVIEW AND APPROVAL OF THAT SUBMITTAL.

4. THE CONTRACTOR'S OBLIGATION TO PERFORM AND COMPLETE THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS SHALL BE ABSOLUTE:
   a. REVIEW AND APPROVAL OF SHOP DRAWINGS BY THE ARCHITECT AND/OR ENGINEER DOES NOT CONSTITUTE APPROVAL OF A CHANGE REQUEST, SUBSTITUTION OR MODIFICATION TO THE CONTRACT DRAWINGS.
   b. THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED OF CHANGE REQUESTS, SUBSTITUTIONS OR MODIFICATIONS TO THE CONTRACT DRAWINGS IN WRITING BEFORE AND SEPARATE FROM THE SUBMITTAL PRIOR TO SUBMISSION.

5. FABRICATION FOR ITEMS IN THESE DOCUMENTS SHALL NOT COMMENCE UNTIL THE SUBMITTAL HAS BEEN REVIEWED AND APPROVED BY THE ENGINEER.

6. THE CONTRACTOR SHALL ALLOW SUFFICIENT TIME FOR THE ENGINEER OF RECORD TO THOROUGHLY REVIEW SUBMITTAL PACKAGES (10 WORKING DAYS, MINIMUM).

SHOP FABRICATION

1. SHOP FABRICATION REQUIRES SPECIAL INSPECTION IN ACCORDANCE WITH CODE SECTION 1704A.2.5.
   EXCEPTION: SHOP SPECIAL INSPECTIONS ARE NOT REQUIRED WHEN WORK IS DONE ON THE PREMISES OF FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK IN ACCORDANCE WITH CODE SECTION 1704A.2.5.1, THE FOLLOWING ACCREDITATIONS MEET THE REQUIREMENTS OF THIS EXCEPTION:
   A. STEEL BUILDINGS (OR STEEL ELEMENTS IN OTHER BUILDINGS)
      a. FOR GENERAL STEEL BUILDINGS OR ELEMENTS THE FABRICATOR SHALL BE AN AISC CERTIFIED FABRICATOR IN ACCORDANCE WITH THE AISC CERTIFICATION PROGRAM FOR STRUCTURAL STEEL FABRICATORS (AISC 201-06).
      b. OTHER ACCREDITATION DEEMED ACCEPTABLE BY THE AUTHORITY HAVING JURISDICTION.
      c. IF FABRICATION IS PERFORMED BY AN APPROVED FABRICATOR A CERTIFICATE OF COMPLIANCE MUST BE PROVIDED TO THE BUILDING INSPECTOR THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE FABRICATOR ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS.
      d. IF FABRICATION IS NOT PERFORMED BY AN APPROVED FABRICATOR WELDING INSPECTION REPORTS MUST BE SUBMITTED TO THE BUILDING OFFICIAL BY AN APPROVED TESTING AGENCY.
         d.a. NONDESTRUCTIVE TESTING (NDT) MAY BE PERFORMED BY THE FABRICATOR, HOWEVER THE QA AGENCY SHALL REVIEW THE FABRICATOR'S NDT REPORTS.

   B. WOOD BUILDINGS
      a. STRUCTURAL GLUED LAMINATED TIMBER

STRUCTURAL OBSERVATIONS

1. IN ACCORDANCE WITH SECTION 1704A.6 OF THE CODE STRUCTURAL OBSERVATIONS SHALL BE PERFORMED FOR THE FOLLOWING ELEMENTS OF CONSTRUCTION:
   A. FOUNDATION REINFORCING AND ANCHORAGE, EXCLUDING THE SLAB ON GRADE REINFORCEMENT.

   B. SHEATHING NAILING FOR THE WOOD LATERAL FORCE-RESISTING SYSTEM, INCLUDING DIAPHRAGMS AND SHEAR WALLS.

   C. AT THE COMPLETION OF MECHANICAL, ELECTRICAL AND PLUMBING ROUGH-IN, PRIOR TO FINISHES BEING INSTALLED.

2. THE OBJECTIVE OF THE STRUCTURAL OBSERVATION IS TO BECOME FAMILIAR WITH THE PROGRESS AND QUALITY OF THE CONTRACTOR'S WORK AND DETERMINE IF THE WORK IS BEING COMPLETED IN GENERAL CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS

   A. STRUCTURAL OBSERVATIONS ARE NOT INSPECTIONS AND SHALL NOT BE USED AS A REPLACEMENT FOR THE SPECIAL INSPECTIONS REQUIRED BY THE CODE OR REFERENCED STANDARD OR FOR SPECIAL INSPECTIONS REQUIRED IN THIS DOCUMENT.

   B. THE PERSON COMPLETING THE STRUCTURAL OBSERVATIONS DOES NOT HAVE RESPONSIBILITY FOR ANY ACTS OR OMISSIONS BY THE CONTRACTOR OR OF ANY OTHER ENTITY PROVIDING MATERIALS OR SERVICES ON THE PROJECT.

3. ADEQUATE NOTIFICATION SHALL BE PROVIDED TO THE STRUCTURAL ENGINEER PERFORMING OBSERVATIONS, A MINIMUM OF (2) WORKING DAYS, PRIOR TO OBSERVATION OF THE WORK.

STATEMENT OF SPECIAL INSPECTIONS

1. THIS STATEMENT OF SPECIAL INSPECTIONS HAS BEEN PREPARED PURSUANT TO SECTION 1704A.3 OF THE CODE . THIS SECTION DETAILS BOTH REQUIRED SPECIAL INSPECTIONS AND TESTS INCLUDING TESTING PER SECTION 1705A OF THE CODE. THE FOLLOWING SHALL BE OBSERVED DURING THEIR IMPLEMENTATION:

   A. GENERAL:
      a. STRUCTURAL VERIFICATIONS, INSPECTIONS AND TESTS SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 17 OF THE CODE AND/OR THE APPLICABLE REFERENCE STANDARD.

   B. OWNER REQUIREMENTS:
      a. THE OWNER OR OWNER'S AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN SECTION 1705A OF THE CODE AND IN THIS STATEMENT OF INSPECTIONS.

   C. SPECIAL INSPECTOR QUALIFICATIONS:
      a. THE SPECIAL INSPECTIONS SHALL PROVIDE WRITTEN DOCUMENTATION TO THE BUILDING OFFICIAL DEMONSTRATING HIS OR HER COMPETENCE AND RELEVANT EXPERIENCE OR TRAINING. THE EXPERIENCE OR TRAINING SHALL BE CONSIDERED RELEVANT WHEN THE DOCUMENTED EXPERIENCE OR TRAINING IS RELATED IN COMPLEXITY TO THE SAME TYPE OF SPECIAL INSPECTION ACTIVITIES FOR PROJECTS OF SIMILAR COMPLEXITY AND MATERIAL QUANTITIES.

   D. CONTRACTOR REQUIREMENTS:
      a. SPECIAL INSPECTION IS IN ADDITION TO THE CONTRACTOR'S QUALITY CONTROL INSPECTIONS AND TESTING. THE CONTRACTOR'S QUALITY CONTROL INSPECTIONS AND TESTING SHALL OCCUR PRIOR TO SPECIAL INSPECTION AND REPORTS SHALL BE AVAILABLE TO THE SPECIAL INSPECTOR.
      b. THE CONTRACTOR SHALL ENSURE THAT THE WORK FOR WHICH SPECIAL INSPECTION IS REQUIRED REMAINS ACCESSIBLE AND EXPOSED FOR SPECIAL INSPECTION PURPOSES UNTIL COMPLETION OF THE REQUIRED SPECIAL INSPECTION.
      c. ANY CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF THE MAIN WIND OR SEISMIC FORCE RESISTING SYSTEM SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL INSPECTION REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.

   E. SPECIAL INSPECTOR REPORT REQUIREMENTS:
      a. THE SPECIAL INSPECTOR SHALL KEEP RECORD OF INSPECTIONS
      b. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.
      c. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS.
      d. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
      e. IF NOT CORRECTED DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD PRIOR TO THE COMPLETION OF THAT PHASE OF WORK.
      f. A FINAL REPORT DOCUMENTING SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED SHALL BE SUBMITTED TO THE BUILDING OFFICIAL.

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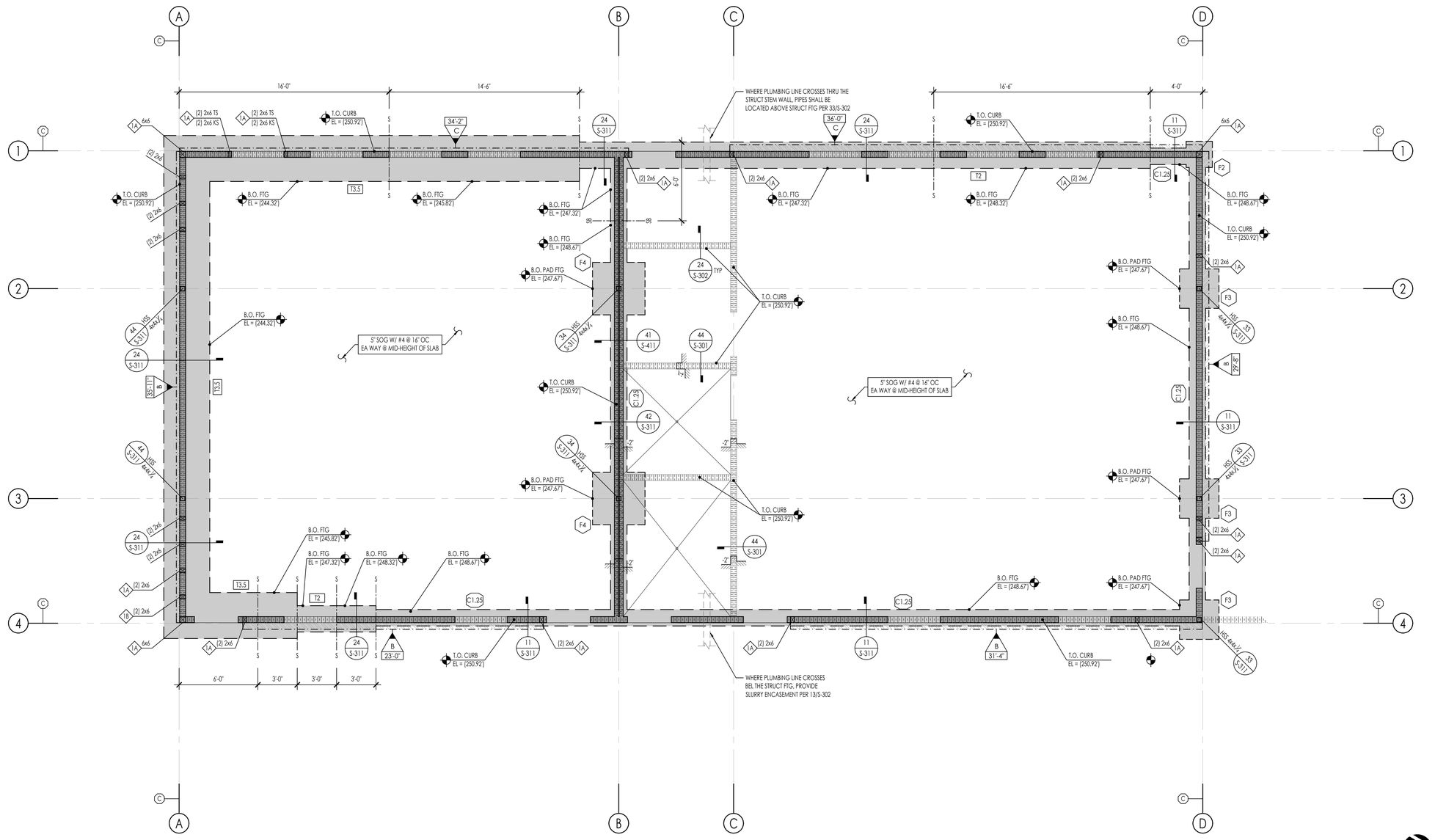
SPECIAL INSPECTIONS AND TESTS

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PROJECT MANAGER: J. MEADOWS
DRAWN BY: C. PRESSLER
CHECKED BY: J. MEADOWS
DATE: APRIL 23, 2026
PROJECT NUMBER: 0822-03-ED25
SHEET: S-105

DSA BACK CHECK 2

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1 FOUNDATION PLAN

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

FOUNDATION PLAN NOTES

1. REFER TO THE FOLLOWING SHEETS FOR TYPICAL DETAILS:

DESCRIPTION	SHEET (S)
SYMBOLS AND ABBREVIATIONS	S-101
STRUCTURAL GENERAL NOTES	S-102 - S-103
TESTING AND INSPECTION	S-104
TYPICAL CONCRETE DETAILS	S-301 - S-302
TYPICAL STEEL DETAILS	S-401
TYPICAL WOOD DETAILS	S-501 - S-504

2. SEE ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR ELEVATIONS. REFERENCE CLASSROOM FINISHED FLOOR ELEVATION = 250.42' CORRESPONDS TO FINISHED FLOOR ELEVATION.
3. ALL DIMENSIONS SHOWN ARE FROM FACE OF CONCRETE, FACE OF SHEATHING, OR CENTERLINE OF COLUMN. ALL COLUMNS ARE CENTERED IN STUD WALLS, UNO.
4. FOR ANY DIMENSIONAL INFORMATION NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
5. SEE ARCHITECTURAL/CIVIL DRAWINGS FOR ANY EMBEDDED ITEMS AND ALL EXTERIOR CONCRETE PAVING.
6. SEE PLANS AND ARCHITECTURAL DRAWINGS FOR DEPRESSIONS AND/OR SLOPES IN CONCRETE SLABS.
7. SEE ARCHECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS IN BEARING AND NON-BEARING WALLS.
8. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF INTERIOR NON-BEARING PARTITIONS.
9. SEE ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL EMBEDDED ITEMS AND SLAB PENETRATIONS.
10. FOR TYPICAL SLAB-ON-GRADE REQUIREMENTS, INCLUDING SLAB JOINTS, SEE DETAIL 31/S-301.
11. SHEATH ALL EXTERIOR WALLS WITH A MINIMUM 7/16" RATED SHEATHING - EXPOSURE 1 PLYWOOD (NAILING 8d 6" EN / 12" FN) IF SHEATHING IS NOT REQUIRED PER SHEAR WALL SCHEDULE.
12. PLATE WASHERS ARE REQUIRED FOR ALL SILL PLATE ANCHOR BOLTS. REFER TO 34/S-502 FOR PLATE WASHER REQUIREMENTS AT SHEAR WALLS.
13. ALL HOLDOWN ANCHOR NUTS SHALL BE TIGHTENED JUST PRIOR TO COVERING.
14. THE BUILDING PAD SHALL BE PREPARED AS OUTLINED IN DETAIL 53/S-301. THE BUILDING INSPECTOR OF RECORD OFFICIAL SHALL REQUIRE PAD CERTIFICATION BY GEOTECHNICAL ENGINEER OR RECORD AT THEIR DISCRETION.
15. BOTTOM OF FOOTING SHALL BE, UNLESS DEEPER FOUNDATIONS ARE REQUIRED BY THE BUILDING OFFICIAL:
    A. 12" BELOW THE LOWEST ADJACENT GRADE WITHIN 7 FEET LATERALLY FROM THE BOTTOM OF THE FOOTING. FOUNDATIONS FOR ALL RETAINING WALLS SHOULD HAVE A MINIMUM OVERALL DEPTH (NOT INCLUDING ANY KEYWAY) OF 18" BELOW THE LOWEST ADJACENT GRADE WITHIN 7 FEET LATERALLY OF ANY ADJACENT SLOPE.
    B. PAD ELEVATION DEFINED IN DETAIL 53/S-301.
    NOTE: FOOTING MUST BE DEEPENED LOCALLY PER DETAIL 32/S-301 TO ACCOMMODATE ANCHOR BOLT HOLDOWN EMBED DEPTHS.
16. DEEPEN FOOTINGS FOR DAYLIGHT DISTANCE PER 32/S-302.

SYMBOL LEGEND

- XX'-X" / X — INDICATES SHEAR WALL TYPE AND LENGTH, SEE SCHEDULE ON 13/S-502
- INDICATES CONCRETE CURB
- INDICATES CONCRETE CURB BELOW BEARING WALL
- INDICATES STEPPED FOOTING PER DETAIL 33/S-301
- INDICATES STEPPED BOTTOM OF FOOTING PER DETAIL 34/S-301

SCHEDULES

HOLDOWN SCHEDULE

SPECIFIES HOLDOWN/ STRAP DETAIL	INDICATES HOLDOWN/ STRAP TYPE	DETAIL
1A	INDICATES SIMPSON HOLDOWN W/ SB TO: CONC FOUNDATION:	14/S-311

STUD WALL SCHEDULE

WALL HATCH	STUD SIZE	STUD SPACING	HDR SIZE, UNO
	2x6 DF No. 2 STUDS	16" OC	32/S-501
	2x4 DF No. 2 STUDS	16" OC	32/S-501
	2x6 NON BRG WALLS	16" OC	43/S-501

CONTINUOUS FOOTING SCHEDULE

MARK	WIDTH	MIN EMBED BELOW LOWEST PAD GRADE	LONG REINF	TRANS REINF	DETAIL
C1.25	1'-3"	SEE NOTE 15	(2) #5 T&B	#4 @ 6" OC	PER PLAN

"STEM WALL" TYPE CONTINUOUS FOOTING SCHEDULE

TYPE	WIDTH	THICKNESS	LONG REINF	TRANS REINF	DETAIL
T2	2'-0"	PER DETAIL	PER DETAIL	PER DETAIL	PER PLAN
T3.5	3'-6"	PER DETAIL	PER DETAIL	PER DETAIL	PER PLAN

PAD FOOTING SCHEDULE

TYPE	WIDTH	LENGTH	THICKNESS	MIN EMBED BELOW LOWEST PAD GRADE	TOP REINF	BOT REINF	DETAIL UNO
F2	2'-0"	2'-0"	2'-0"	SEE NOTE 15	(3) #5, EW	(3) #5, EW	32/S-311
F3	3'-0"	3'-0"	2'-0"	SEE NOTE 15	(4) #5, EW	(4) #5, EW	33/S-311
F4	4'-0"	4'-0"	2'-0"	SEE NOTE 15	(5) #5, EW	(5) #5, EW	34/S-311

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REGISTERED PROFESSIONAL ENGINEER — JESSICA M. MEADOWS — No. 6488 — STRUCTURAL — STATE OF CALIFORNIA

CONSULTANT

MESA MS SPED SCIENCE BUILDING

2555 S HALCYON RD, ARROYO GRANDE, CA

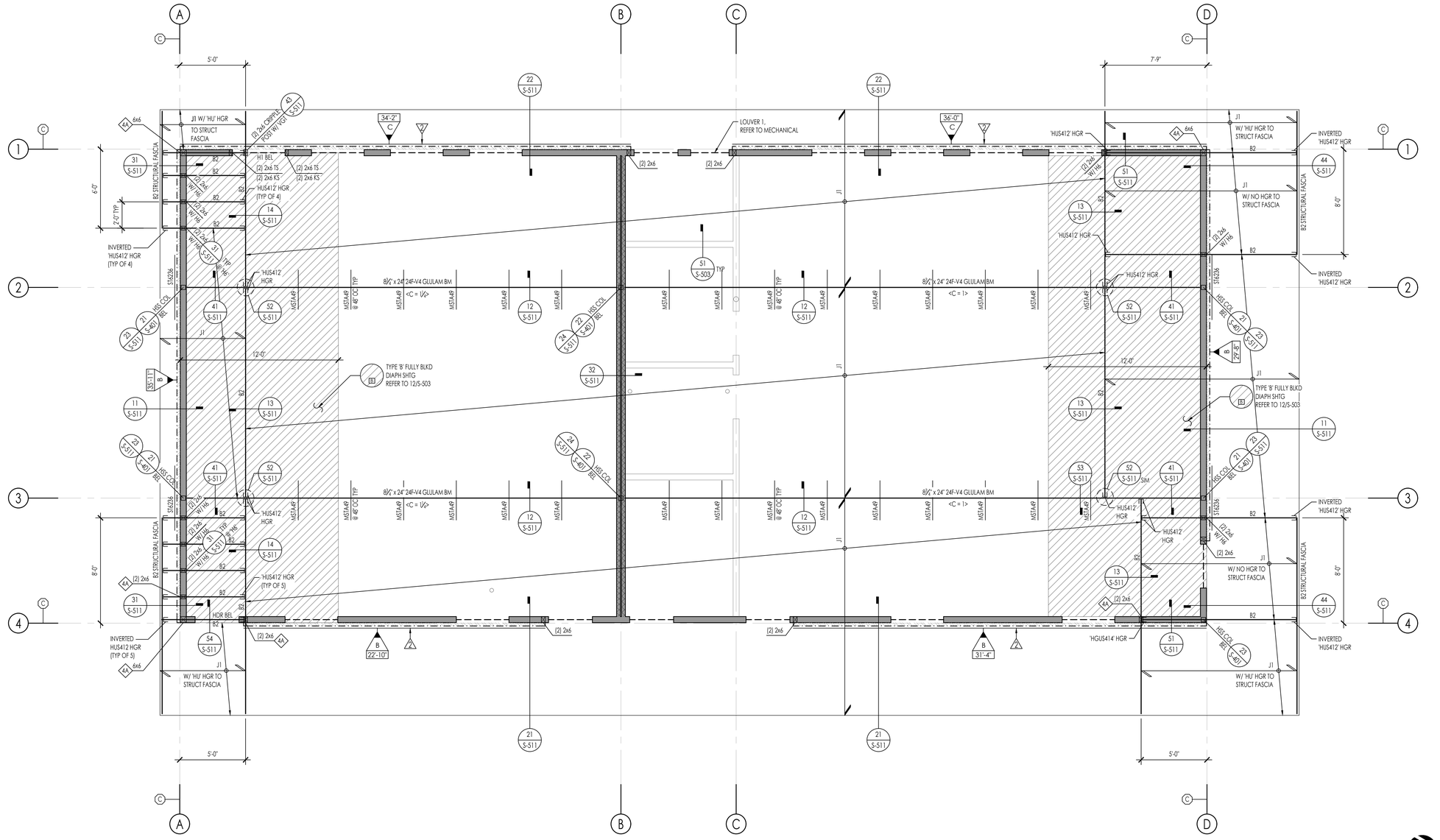
FOUNDATION PLAN

NO.	REVISION	DATE

PROJECT MANAGER: J. MEADOWS
DRAWN BY: C. PRESSLER
CHECKED BY: J. MEADOWS
DATE: APRIL 23, 2026
PROJECT NUMBER: 0822-03-ED25
SHEET: S-201

DSA BACK CHECK 2

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NORTH

1 ROOF FRAMING PLAN

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

ROOF FRAMING NOTES

1. REFER TO THE FOLLOWING SHEETS FOR TYPICAL DETAILS:

DESCRIPTION	SHEET (S)
SYMBOLS AND ABBREVIATIONS	S-101
STRUCTURAL GENERAL NOTES	S-102 - S-104
TESTING AND INSPECTION	S-105
TYPICAL CONCRETE DETAILS	S-301 - S-302
TYPICAL STEEL DETAILS	S-401
TYPICAL WOOD DETAILS	S-501 - S-504

2. SEE ARCHITECTURAL DRAWINGS FOR ALL TOP OF SHEATHING AND TOP OF WALL ELEVATIONS.
3. SEE ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF PIPES, DUCTS AND OTHER ROOF PENETRATIONS. FOR ROOF PENETRATIONS NOT SHOWN ON ROOF FRAMING PLAN, SEE DETAIL 23/S-503 FOR TYPICAL OPENINGS, UNO.
4. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS IN BEARING AND NON-BEARING WALLS.
5. TOP OF NON-BEARING STUD WALL SHALL BE AS SHOWN IN 51/S-503.
6. ALL LINES AND/OR MEMBERS INDICATED AS "STRUT" SHALL RECEIVE (2) ROWS OF BOUNDARY NAILING (BN), STGR.
7. SHEATH ALL EXTERIOR WALLS WITH A MINIMUM 7/16" RATED SHEATHING - EXPOSURE 1 PLYWOOD (NAILING 8d 6" EN / 12" FN) IF SHEATHING IS NOT REQUIRED PER SHEAR WALL SCHEDULE.
8. ALL INTERIOR WALLS NOT SHOWN ON THE STRUCTURAL FRAMING PLANS BUT SHOWN ON THE ARCHITECTURAL DRAWINGS SHALL BE CONSTRUCTED PER NON-BEARING PARTITION WALL DETAIL 43/S-501, UNO.
9. PLYWOOD SHEATED DIAPHRAMG TYPES:
   ALL ROOF DIAPHRAMGS SHALL BE TYPE A, UNO
   REFER TO 12/S-503
10. REFER TO DETAIL 52/S-503 FOR REQUIRED BRIDGING OF ROOF JOISTS.
11. FOR ALL DOUBLE STUD POSTS, REFER TO 14/S-502 FOR NAILING REQUIREMENTS.

SYMBOL LEGEND

XX"-X" / X / *	INDICATES SHEAR WALL TYPE AND LENGTH, SEE SCHEDULE ON 13/S-502
	INDICATES BLOCKING & STRAPPING ABOVE & BELOW WINDOW OPENINGS PER DETAIL 44/S-502
	INDICATES HEADER @ OPENING. REFER TO 32/S-501 FOR HEADER SIZE, UNO ON PLANS
X	INDICATES TOP PLATE SPLICE NAILING PER 33/S-503 NOTE THAT NAILING APPLIES TO ENTIRE LENGTH OF TOP PLATE. PROVIDE TYPE (C) SPLICE, UNO
POST SPEC TIE SPEC	INDICATES THE POST REQUIRED BELOW THE JOIST/BEAM AND THE SIMPSON TIE HARDWARE FROM THE JOIST/BEAM TO POST
<C = XX>	INDICATES BEAM CAMBER AT MIDSPAN IN INCHES

SCHEDULES

STUD WALL SCHEDULE

WALL HATCH	STUD SIZE	STUD SPACING	HDR SIZE, UNO
	2x6 DF No. 2 STUDS	16" OC	32/S-501
	2x4 DF No. 2 STUDS	16" OC	32/S-501
	2x6 NON BRG WALLS	16" OC	43/S-501

HOLDOWN SCHEDULE

SPECIFIES HOLDOWN/ STRAP DETAIL	INDICATES HOLDOWN/ STRAP TYPE	DETAIL
4A	INDICATES SIMPSON HOLDOWN FROM BM TO POST HOLDOWN BELOW:	24/S-504

ROOF BEAM SCHEDULE

MARK	SIZE	REMARKS
B1	5 1/4" x 14" LVL	
B2	3 1/2" x 14" LVL	

ROOF HEADER SCHEDULE

MARK	SIZE	REMARKS
H1	6x8	

ROOF JOIST SCHEDULE

MARK	SIZE	REMARKS
J1	14" I-65 @ 24" OC	

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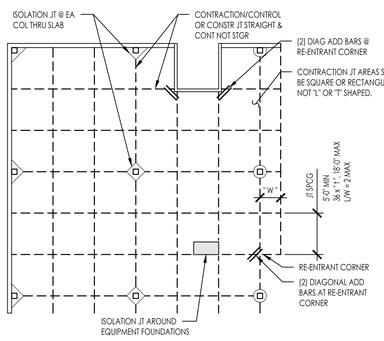
ROOF FRAMING PLAN

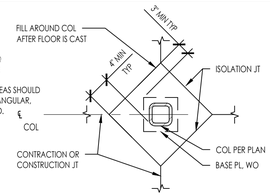
NO.	REVISION	DATE

PROJECT MANAGER J. MEADOWS
DRAWN BY C. PRESSLER | **CHECKED BY** J. MEADOWS
DATE APRIL 23, 2026
PROJECT NUMBER 0822-03-ED25
SHEET S-202

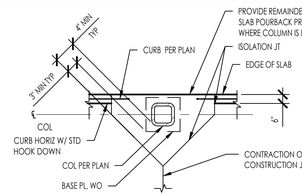
DSA BACK CHECK 2

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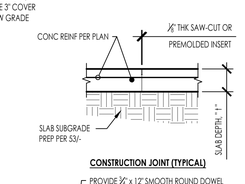




COLUMN ISOLATION JOINT



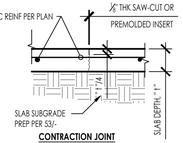
COLUMN ISOLATION JOINT



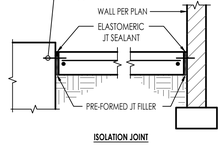
CONSTRUCTION JOINT (TYPICAL)

NOTES:

1. IF SAW CUT CONTRACTION OR CONTROL JOINT IS USED, SAW-CUT WITHIN 24 HOURS. EARLY ENTRY SAWS MAY BE USED WITHIN 1-4 HOURS OF POUR, AND CONVENTIONAL SAWS 4-12 HOURS OF POUR DEPENDING ON WEATHER.
2. FILL CONTRACTION JOINT WITH AN ELASTOMERIC JOINT COMPOUND RATED FOR ITS USE, FOR INDUSTRIAL FLOORS SUBJECTED TO HARD WHEELED TRAFFIC, USE SEALANTS RATED FOR SUCH APPLICATIONS BY THE MANUFACTURER.
3. DOWELS IN INDUSTRIAL FLOOR APPLICATIONS SHOULD BE SMOOTH ALIGNED, AND SUPPORTED SO THEY WILL REMAIN PARALLEL IN BOTH HORIZONTAL AND VERTICAL PLANES DURING PLACING AND FINISHING.
4. IN STEEL AND/OR CONC. BUILDINGS DO NOT POUR DIAMOND UNTIL STRUCTURAL STEEL AND CONCRETE ABOVE HAS BEEN INSTALLED.



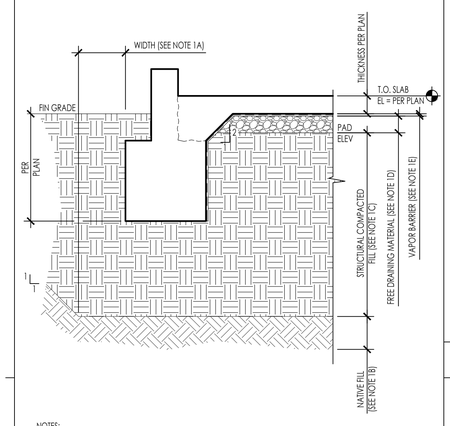
CONTRACTION JOINT



ISOLATION JOINT

SLAB ON GRADE JOINTS

0822-03-ED25 - S301 - 31 NTS 31

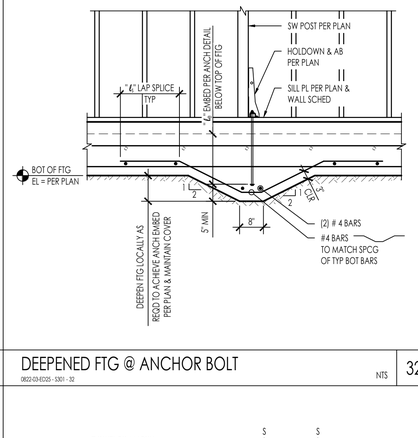


NOTES:

1. PREPARATION OF THE SLAB SUBGRADE SHALL BE AS FOLLOWS:
   - A. OVER-EXCAVATION SHALL EXTEND 5 FEET BEYOND PERIMETER FOUNDATION, TO PROPERTY LINES OR EXISTING IMPROVEMENTS, WHICHEVER IS LEAST.
   - B. NATIVE MATERIAL S
     - a. SHALL BE OVER-EXCAVATED 36" BELOW (E) GRADE OR TO 24" BELOW BOTTOM OF FOOTINGS (MEASURED FROM THE BOTTOM OF THE DEEPEST FOOTING); WHICHEVER IS GREATEST.
     - b. THE EXPOSED SURFACE SHALL BE SCARIFIED TO A DEPTH OF NOT LESS THAN 8 INCHES, MOISTURE CONDITIONED TO OPTIMUM MOISTURE CONTENT OR JUST ABOVE, AND COMPACTED TO A MINIMUM OF 90 PERCENT OF MAXIMUM DRY DENSITY (ASTM D1557)
   - C. STRUCTURAL FILL
     - a. THE SOILS REMOVED FROM THE BUILDING, RETAINING WALL AND FLATWORK AREAS, AS WELL APPROVED NON-EXPANSIVE SOIL, MAY BE USED AS FILL TO FINISH PAD GRADE WITHIN THE BUILDING AREA, AND TO FINISH GRADE.
     - b. STRUCTURAL FILL SHALL BE PLACED IN HORIZONTAL LAYERS, EACH APPROXIMATELY 8" THICK BEFORE COMPACTION, AND SHOULD BE CONDITIONS WITH WATER TO PRODUCE A SOIL WATER CONTENT NEAR OPTIMUM MOISTURE AND COMPACTED TO A MINIMUM OF 90 PERCENT OF MAXIMUM DRY DENSITY (ASTM D1557)
   - D. 4" THICK, CLEAN FREE-DRAINING MATERIAL SUCH AS ¾" COARSE AGGREGATE
   - E. REFER TO ARCH DRAWINGS AND SPECIFICATIONS FOR VAPOR BARRIER. INSTALL PER MANUFACTURER'S RECOMMENDATIONS FOR SEALING OF PENETRATIONS, JOINTS AND EDGES.
     - a. VAPOR BARRIER IS NOT TO BE PUNCTURED DURING CONSTRUCTION OF SLAB ON GRADE.

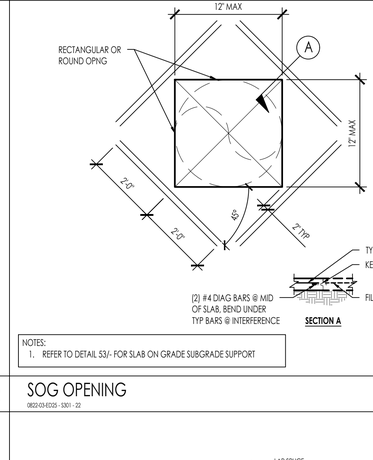
SLAB ON GRADE EDGE AND SUBGRADE PREP

0822-03-ED25 - S301 - 53 NTS 53



DEEPENED FTG @ ANCHOR BOLT

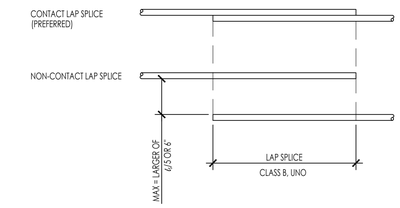
0822-03-ED25 - S301 - 32 NTS 32



NOTES:
1. REFER TO DETAIL 53/- FOR SLAB ON GRADE SUBGRADE SUPPORT

SOG OPENING

0822-03-ED25 - S301 - 22 NTS 22



REINFORCING TENSION DEVELOPMENT LENGTH AND LAP SPLICE SCHEDULE

BAR SIZE	DEVELOPMENT LENGTH, ℓ_d (CLASS A LAP SPLICE)		LAP SPLICE, ℓ_s (CLASS B LAP SPLICE)	
	f'c (psi)		f'c (psi)	
	3,000	4,000	3,000	4,000
#3	1'-5"	1'-3"	1'-10"	1'-7"
#4	1'-10"	1'-7"	2'-5"	2'-1"
#5	2'-4"	2'-0"	3'-0"	2'-7"
#6	2'-9"	2'-5"	3'-7"	3'-2"
#7	4'-0"	3'-4"	5'-2"	4'-6"
#8	4'-7"	4'-0"	5'-11"	5'-2"
#9	5'-2"	4'-6"	6'-9"	5'-10"
#10	5'-10"	5'-1"	7'-7"	6'-7"
#11	6'-6"	5'-7"	8'-5"	7'-3"

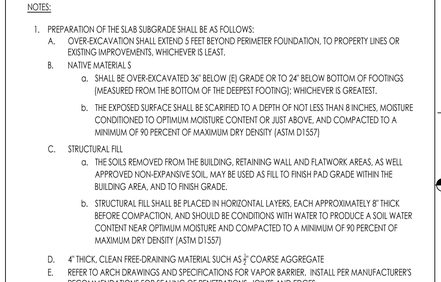
NOTES:
1. VALUES ABOVE ARE FOR REINFORCEMENT WITH THE FOLLOWING PARAMETERS:
   - A. GRADE 60 REINFORCEMENT
   - B. NORMAL WEIGHT CONCRETE
     - a. FOR LIGHTWEIGHT CONCRETE MULTIPLY THE VALUES ABOVE BY 1.3
   - C. NON-EPOXY COATED REINFORCEMENT
   - D. HORIZONTAL BARS WITHOUT 12" OF CONCRETE BELOW (BOTTOM BARS), AND VERTICAL BARS
     - a. FOR TOP BARS WITH 12" OR MORE OF CONCRETE BELOW THE BAR MULTIPLY THE VALUES ABOVE BY 1.3
   - E. CLEAR SPACING NOT LESS THAN d_b, CLEAR COVER NOT LESS THAN d_b AND STIRRUPS THROUGH L_0 NOT LESS THAN MIN

     OR

     CLEAR SPACING NO LESS THAN $2d_b$ AND CLEAR COVER NOT LESS THAN db
     - a. FOR OTHER SPACING AND COVER CONDITIONS MULTIPLY THE VALUES ABOVE BY 1.5
   - F. REINFORCEMENT NOT IN SHEAR WALLS
     - a. FOR REINFORCEMENT IN SHEAR WALLS MULTIPLY THE VALUES ABOVE BY 1.25
2. THE MULTIPLIERS LISTED IN NOTE 1 ABOVE ARE CUMULATIVE INCREASES IN DEVELOPMENT/LAP SPLICE LENGTH.
3. ALL LAP SPLICES REFERENCED IN THE PLANS SHALL BE CLASS B UNLESS NOTED OTHERWISE.
4. WHEN REINFORCING BARS OF TWO SIZES ARE LAP-SPLICED IN TENSION, USE THE LARGER OF THE TENSION CLASS B, LAP SPLICE LENGTH (ℓ_s) OF THE SMALLER BAR, AND THE CLASS A, TENSION DEVELOPMENT LENGTH (ℓ_d) OF THE LARGER BAR.

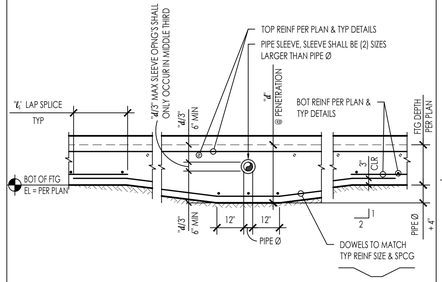
REINF DEVELOPMENT LENGTH AND SPLICES

0822-03-ED25 - S301 - 12 NTS 12



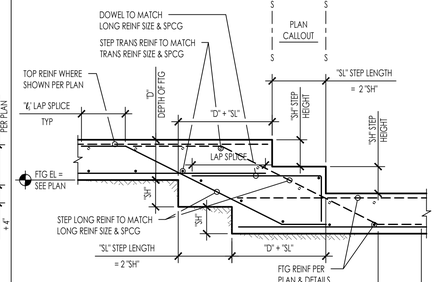
STEP IN CONCRETE SLAB ON GRADE

0822-03-ED25 - S301 - 54 NTS 54



SLEEVE THROUGH FOUNDATION (SLAB TURN-DOWN)

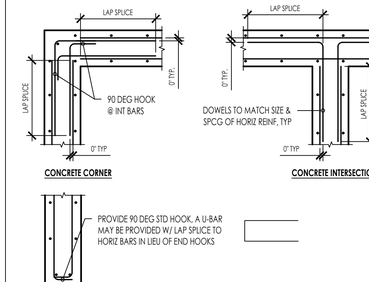
0822-03-ED25 - S301 - 43 NTS 43



NOTE:
"SH" = 1'-6" MAX

STEP FOOTING

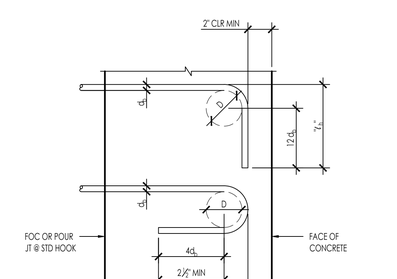
0822-03-ED25 - S301 - 33 NTS 33



NOTE:
REINFORCEMENT SHOWN ON WALL ELEVATION(S), BOUNDARY REINFORCING DETAILS, AND OTHER SPECIFICALLY REFERENCED DETAILS SHALL TAKE PRECEDENCE OVER REINFORCEMENT SHOWN HERE.

CONC REINF @ INTERSECTION

0822-03-ED25 - S301 - 24 NTS 24



BAR SIZE	D
#3 THRU #8	6d
#9 THRU #11	8d

STANDARD HOOK DEVELOPMENT LENGTH "ℓ_{dh}"

BAR SIZE	D	"ℓ_{dh}"	NORMAL WEIGHT	
			3,000	4,000
#3	2 1/4"	6"	0'-9"	0'-9"
#4	3"	8"	1'-0"	0'-11"
#5	3 3/4"	10"	1'-3"	1'-2"
#6	4 1/2"	12"	1'-6"	1'-5"
#7	5 1/4"	1'-2"	1'-9"	1'-8"
#8	6"	1'-4"	2'-0"	1'-10"
#9	9 1/2"	1'-7 1/2"	2'-3"	2'-1"
#10	10 3/4"	1'-10"	2'-7"	2'-4"
#11	12"	2'-0 1/2"	2'-10"	2'-7"

NOTES:
1. ALL HOOKED BARS SHALL EXTEND AS FAR AS POSSIBLE WITH A MINIMUM 2" END COVER AND WITH EMBEDMENT NOT LESS THAN SHOWN ON THE SCHEDULE UNLESS NOTED OTHERWISE ON PLANS.
2. MINIMUM SIDE COVER = 2½".
3. FOR LIGHTWEIGHT CONCRETE MULTIPLY LENGTHS IN SCHEDULE BY 1.3.

REINF HOOK DEVELOPMENT LENGTH AND BENDS

0822-03-ED25 - S301 - 14 NTS 14

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JESSICA M. MEADOWS
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CONSULTANT

DSA BACK CHECK 2

MESA MS SPED SCIENCE BUILDING
2555 S HALCYON RD, ARROYO GRANDE, CA

TYPICAL CONCRETE DETAILS

NO.	REVISION	DATE
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PROJECT MANAGER: J. MEADOWS
DRAWN BY: C. PRESSLER
CHECKED BY: J. MEADOWS
DATE: APRIL 23, 2026
PROJECT NUMBER: 0822-03-ED25
SHEET: S-301

N:\08011\0822-03-ed25-meso-ms-new-science-sped-class-bldg\structural\ConDocs\sheet-files\0822-03-ED25 - S301.dwg, S301, Apr 22, 2026 12:49pm, jsellis

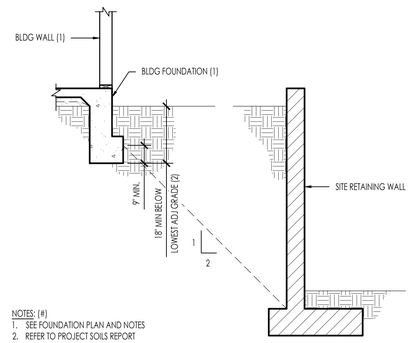
51

41

FTG BEHIND SITE WALL

0822 - 03 - ED25 - S302 - 31

NTS



NOTES: (#)
1. SEE FOUNDATION PLAN AND NOTES
2. REFER TO PROJECT SOILS REPORT

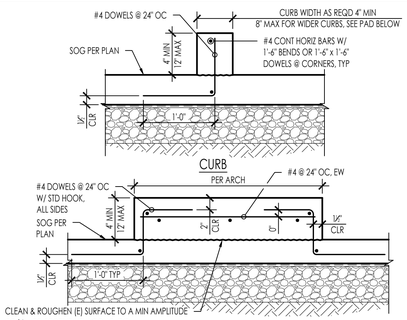
31

21

CONCRETE CURBS & PADS

0822-03-ED25 - S302 - 21

NTS



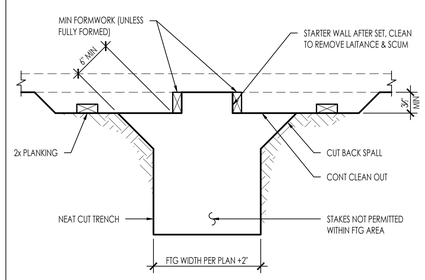
NOTES:
1. SEE ARCH FOR SIZE, HEIGHT AND LOCATION OF CURBS AND PADS
2. PROVIDE INSERTS AS REQD BY ARCH / MECH DRAWINGS

11

FOOTING POURED AGAINST EARTH

0822-03-ED25 - S302 - 11

NTS



NOTES:
1. FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE GEOTECHNICAL ENGINEER
2. FOOTING WIDTHS SHALL NOT BE MORE THAN 4" WIDER THAN SHOWN ON PLAN
3. FORMWORK NOT PERMITTED BELOW GRADE UNLESS FULLY FORMED.

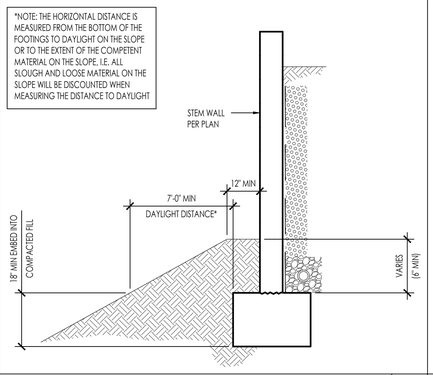
52

42

DISTANCE TO SLOPE

0822-03-ED25 - S302 - 32

NTS



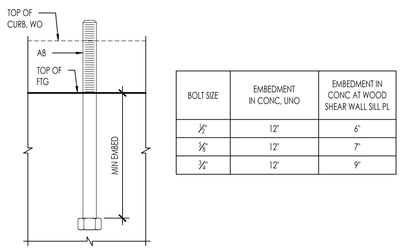
32

22

CONCRETE ANCHOR BOLT SCHEDULE

0822-03-ED25 - S302 - 22

NTS



BOLT SIZE	EMBEDMENT IN CONC, UNO	EMBEDMENT IN CONC AT WOOD SHEAR WALL SILL PL
⅝"	12"	6"
⅝"	12"	7"
¾"	12"	9"

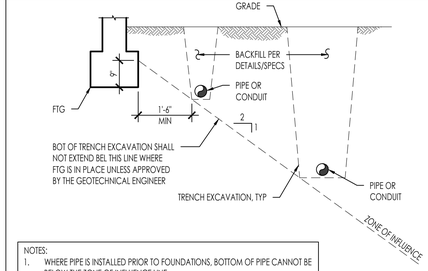
NOTES:
1. MINIMUM BOLT SPACING SHALL BE 12 BOLT DIAMETERS WITH A MINIMUM EDGE DISTANCE OF 12 DIAMETERS, UNLESS NOTED OTHERWISE.
2. ANCHOR BOLTS SHALL BE HEX HEADED WITH THE DIMENSIONS OF THE HEX CONFORMING TO ANSI/ASME B18.2.1 BENT BAR ANCHORS SHALL NOT BE USED.

12

PIPES PARALLEL TO FOOTINGS

0822-03-ED25 - S302 - 12

NTS



NOTES:
1. WHERE PIPE IS INSTALLED PRIOR TO FOUNDATIONS, BOTTOM OF PIPE CANNOT BE BELOW THE ZONE OF INFLUENCE LINE.
2. CONTRACTOR SHALL COORDINATE ALL PIPE LOCATIONS WITH BUILDING FOUNDATION REQUIREMENTS.
3. IF REQUIREMENTS AS SHOWN CANNOT BE MET STEP FOOTING PER TYPICAL 'STEPPED FOOTING' DETAILS 33/S-301 & 34/S-301.

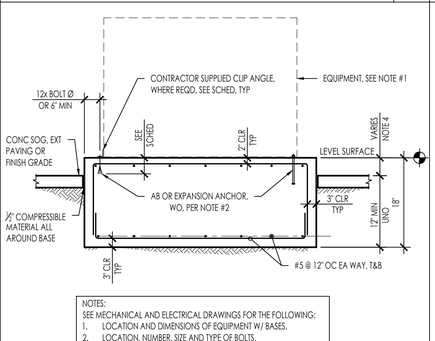
53

43

PIPES PERPENDICULAR TO FOOTINGS W/ STEM WALL

0822-03-ED25 - S302 - 33

NTS



NOTES:
1. FOOTINGS SHALL BE STEPPED PER DETAIL 33/S-301 & 34/S-301 SO THAT THIS DIMENSION DOES NOT EXCEED 3'-0".
2. CONTRACTOR SHALL COORDINATE ALL PIPE LOCATIONS WITH BUILDING FOUNDATION REQUIREMENTS.
3. TRENCH BELOW FOOTING SHALL BE FILLED WITH CONCRETE OR 3-SACK SLURRY BEFORE POURING FOOTING. CONCRETE FILL SHALL BE SAME WIDTH AS FOOTING AND FULL WIDTH OF PIPE TRENCH.
4. PIPES MAY BE WRAPPED IN 1" THICK LOOSE FOAM IN LIEU OF SLEEVING.
5. CONDUIT MAY BE RUN THRU STEM OR ENCASEMENT UNDER FOOTING WITHOUT SLEEVES OR FOAM WRAP.

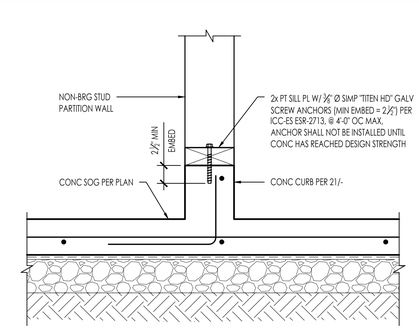
33

23

CURB REINF WELLDED TO HSS COLUMN

0822-03-ED25 - S302 - 24

NTS

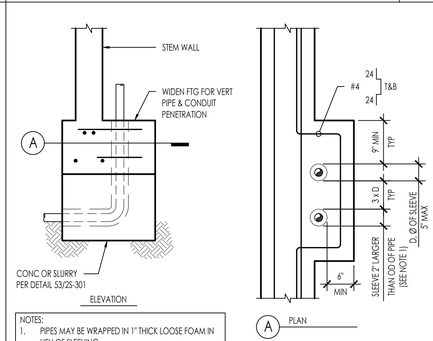


13

PIPES PERPENDICULAR TO FOOTINGS

0822-03-ED25 - S302 - 13

NTS



NOTES:
1. FOOTINGS SHALL BE STEPPED PER DETAIL & 33/S-301 SO THAT THIS DIMENSION DOES NOT EXCEED 3'-0".
2. CONTRACTOR SHALL COORDINATE ALL PIPE LOCATIONS WITH BUILDING FOUNDATION REQUIREMENTS.
3. TRENCH BELOW FOOTING SHALL BE FILLED WITH CONCRETE OR 3-SACK SLURRY BEFORE POURING FOOTING. CONCRETE FILL SHALL BE SAME WIDTH AS FOOTING AND FULL WIDTH OF PIPE TRENCH.
4. PIPES MAY BE WRAPPED IN 1" THICK LOOSE FOAM IN LIEU OF SLEEVING.
5. CONDUIT MAY BE RUN THRU STEM OR ENCASEMENT UNDER FOOTING WITHOUT SLEEVES OR FOAM WRAP.

54

44

CONCRETE BASE FOR EQUIPMENT

0822-03-ED25 - S302 - 34

NTS

NOTES:
SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
1. LOCATION AND DIMENSIONS OF EQUIPMENT W/ BASES.
2. LOCATION, NUMBER, SIZE AND TYPE OF BOLTS.
3. EMBEDMENT DEPTH OF POST-INSTALLED ANCHORS, WHERE OCCUR.
4. CURB HEIGHT, 2" MINIMUM, 6" MAXIMUM

34

24

NON-BEARING NON SHEAR WALLWALL ANCHORAGE @ SOG

0822-03-ED25 - S302 - 24

NTS

14

TYPICAL VERT PIPES OR COND THROUGH FOOTING

0822-03-ED25 - S302 - 14

NTS

NOTES:
1. PIPES MAY BE WRAPPED IN 1" THICK LOOSE FOAM IN LIEU OF SLEEVING.
2. CONDUIT MAY BE ROUTED UP THROUGH FOOTING WITHOUT SLEEVES OR FOAM WRAP.

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MESA MS SPED SCIENCE BUILDING
2555 S HALCYON RD, ARROYO GRANDE, CA

TYPICAL CONCRETE DETAILS

NO.	REVISION	DATE
1		
2		
3		
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6		

PROJECT MANAGER
J. MEADOWS

DRAWN BY
C. PRESSLER

CHECKED BY
J. MEADOWS

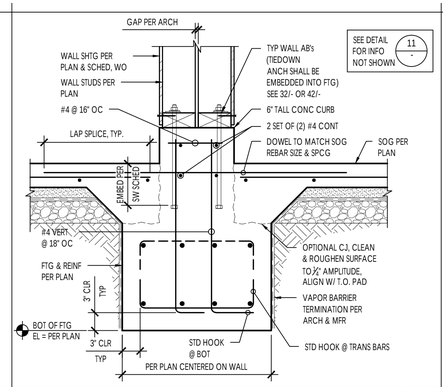
DATE
APRIL 23, 2026

PROJECT NUMBER
0822-03-ED25

SHEET
S-302

DSA BACK CHECK 2

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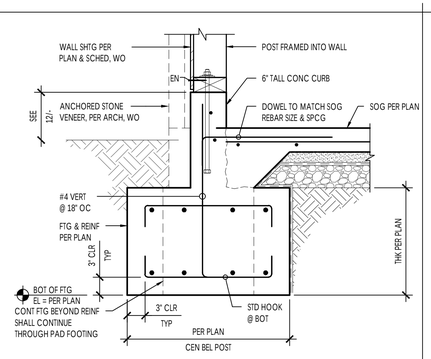
51

CONTINUOUS WALL FOOTING @ DBL WALL

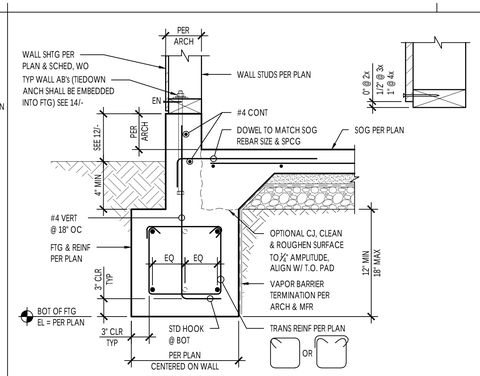
0822-03-ED25 - S311 - 41

1" = 1'-0"

41



EXTERIOR

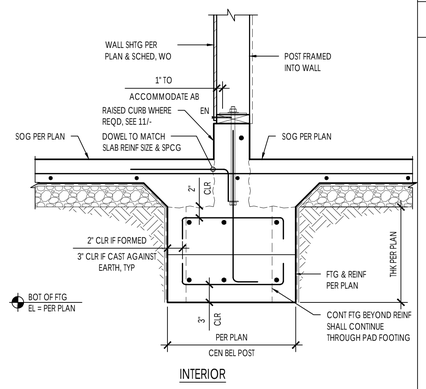


CONTINUOUS WALL FOOTING

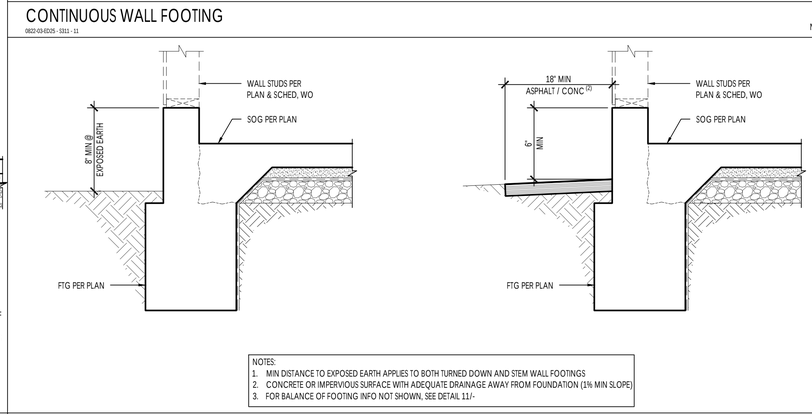
0822-03-ED25 - S311 - 11

NTS

11



INTERIOR



NOTES:
1. MIN DISTANCE TO EXPOSED EARTH APPLIES TO BOTH TURNED DOWN AND STEM WALL FOOTINGS
2. CONCRETE OR IMPERVIOUS SURFACE WITH ADEQUATE DRAINAGE AWAY FROM FOUNDATION (1% MIN SLOPE)
3. FOR BALANCE OF FOOTING INFO NOT SHOWN, SEE DETAIL 11/-

MINIMUM DISTANCE FROM GRADE TO WOOD FRAMING

0822-03-ED25 - S311 - 12

NTS

12

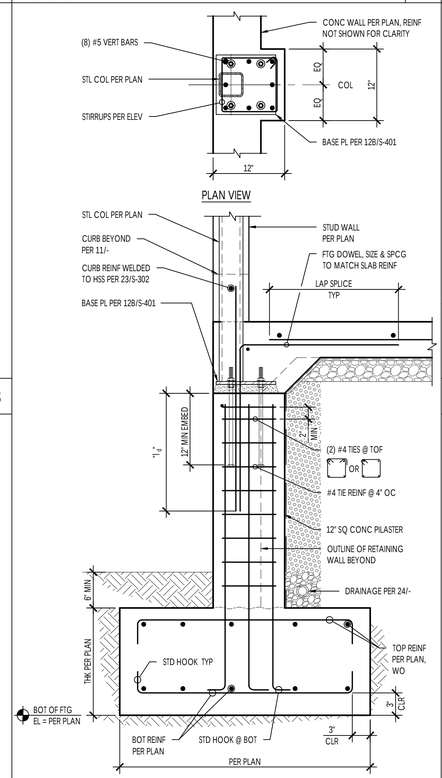
52

SOG DEPRESSION @ FTG W/ CURB

0822-03-ED25 - S311 - 42

1" = 1'-0"

42



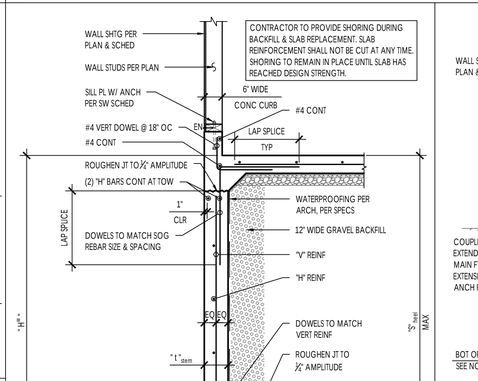
53

PAD FOOTING

0822-03-ED25 - S311 - 32

1" = 1'-0"

32



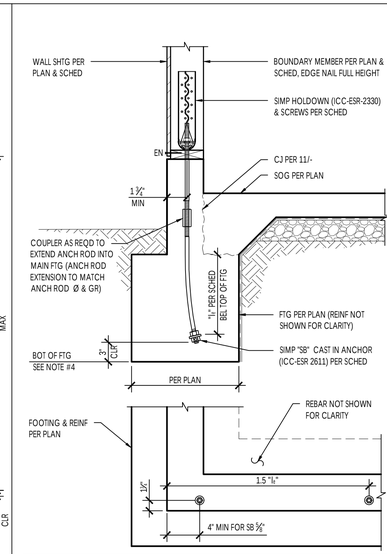
H_{ftg}	d_{eq}	k	f'_{stem} (KN)	B	C	W	REINF TOP T	REINF TOP L	REINF BOTTOM T	REINF BOTTOM L	WALL HORIZ	WALL VERT	S_{toe} MIN	S_{heel} MAX
2'-6"	1'-3"	N/A	8	0'-8"	0'-8"	2'-0"	#5 @ 8"	#5 @ 16"	#5 @ 8"	#5 @ 16"	#5 @ 16"	#5 @ 16"	0'-6"	2'-6"
5'-0"	1'-3"	10	8	1'-2"	1'-8"	3'-6"	#5 @ 8"	#5 @ 16"	#5 @ 8"	#5 @ 16"	#5 @ 16"	#5 @ 16"	0'-6"	5'-0"

DEEPENED FOOTING

0810-07-C121 - S311 - 14

1/2" = 1'-0"

24



TYPE	HOLDOWN	ANCHOR	DIA (IN)	FASTENERS	MIN EMBED "l_e" (IN)	BOUNDARY MEMBER MIN THICKNESS x WIDTH	ALLOWABLE LOADS (lbs) CORNER	ALLOWABLE LOADS (lbs) MIDWALL
1A	HDUE3-SDS3	SB ⅝" x 24	⅝	(7) ¼" x 3" SDS	18	3" x 3½"	3,000*	3,000*
1B	HDUE5-SDS3	SB ⅝" x 24	⅝	(10) ¼" x 3" SDS	18	3" x 3½"	4,300*	4,300*
1C	HDU9-SDS3.5	SB ⅝" x 24	⅝	(16) ¼" x 3½" SDS	18	3½" x 3½"	6,700*	6,700*
						4½" x 3½"	7,500*	7,500*
1D	HDUE13-SDS3.5	SB 1" x 30	1	(23) ¼" x 3½" SDS	24	5½" x 3½"	9,500*	9,500*
						7½" x 3½"	10,350*	10,350*

1. MINIMUM EDGE DISTANCE IS SHOWN ABOVE. ANCHOR LOCATIONS PER PLAN
2. MINIMUM ANCHOR TO ANCHOR SPACING IS 3 l_e
3. * = CAPACITY LIMITED BY HOLDOWN
4. DEEPEN FOOTING AT HOLDOWN ANCHOR AS REQ'D PER DETAIL 32/S-301
5. HDUE13-SDS3.5 HOLDOWN REQUIRES HEAVY HEX NUT

SB ANCHOR & HOLDOWN @ FOUNDATION

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14

54

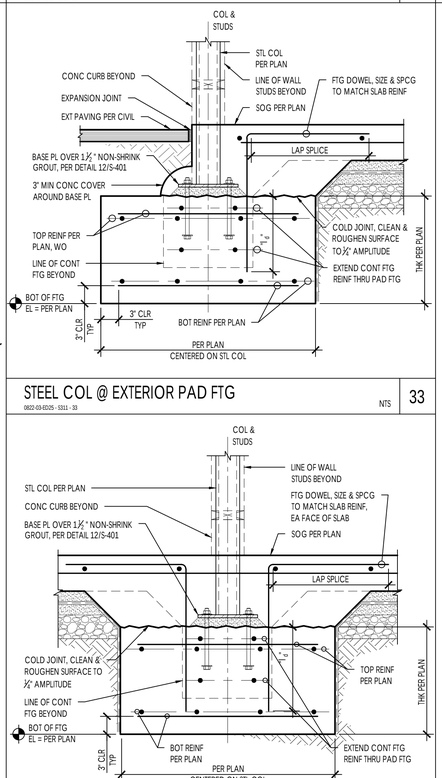
STEEL COL TO PILASTER @ RETAINING WALL

0822-03-ED25 - S311 - 44

1" = 1'-0"

44

55



STEEL COL @ INTERIOR PAD FTG

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34

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2555 S HALCYON RD, ARROYO GRANDE, CA

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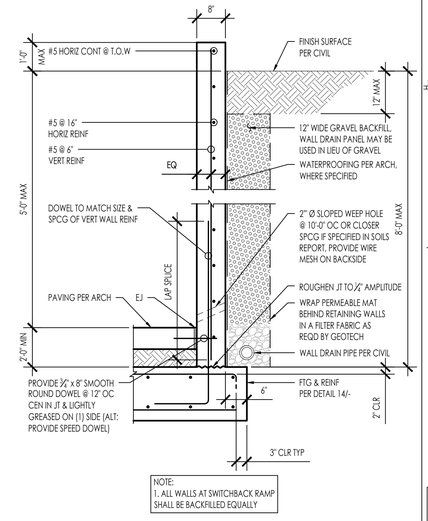
NO.	REVISION	DATE
1		
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PROJECT MANAGER
J. MEADOWS
DRAWN BY
C. PRESSLER
CHECKED BY
J. MEADOWS
DATE
APRIL 23, 2026
PROJECT NUMBER
0822-03-ED25
SHEET
S-311

DSA BACK CHECK 2

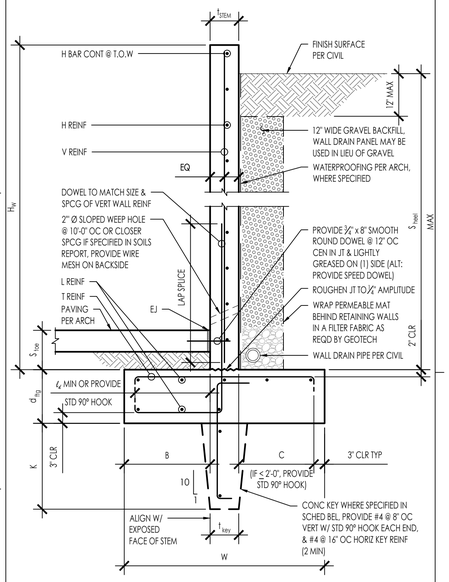
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51 | 41 | 31



NOTE:
1. ALL WALLS AT SWITCHBACK RAMP SHALL BE BACKFILLED EQUALLY

52 | 42 | 32 | CONC RETAINING WALL @ SWITCHBACK RAMP NTS | 0822-03-ED25 - S312 - 22 | 22



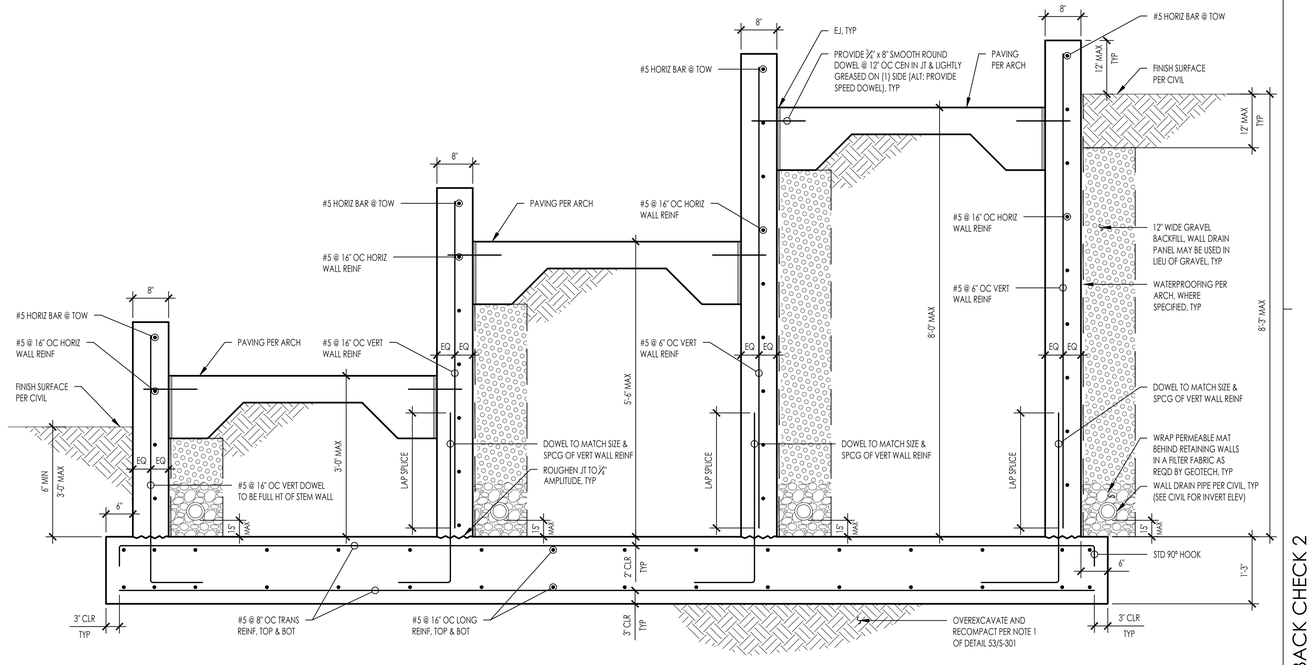
WALL TYPE	H_W	t_{STEM}	d_{ftg}	K	B	C	W	REINF						S_{min}	S_{meas}
								TOP		BOTTOM		WALL			
								T	L	T	L	HORIZ	VERT	MIN	MAX
A	3'-0"	8"	1'-3"	6	1'-1"	1'-1"	2'-9"	#5 @ 8"	#5 @ 16"	#5 @ 8"	#5 @ 16"	#5 @ 16"	#5 @ 16"	0'-6"	3'-0"

* FOR K ≤ 2'-0" t_{key} = 12"
FOR K > 2'-0" t_{key} = 18"

12 | CONC RETAINING WALL NTS | 0822-03-ED25 - S312 - 12

53 | 43

NOTE:
1. ALL WALLS AT SWITCHBACK RAMP SHALL BE BACKFILLED EQUALLY



54 | 44 | CONCRETE RETAINING WALLS @ SWITCHBACK RAMP NTS | 0822-03-ED25 - S312 - 14 | 14

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CONSULTANT

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2555 S HALCYON RD, ARROYO GRANDE, CA

CONCRETE DETAILS

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6		

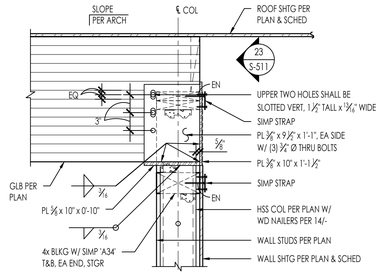
PROJECT MANAGER: J. MEADOWS
DRAWN BY: C. PRESSLER
CHECKED BY: J. MEADOWS
DATE: APRIL 23, 2026
PROJECT NUMBER: 0822-03-ED25
SHEET: S-312

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51

41

31

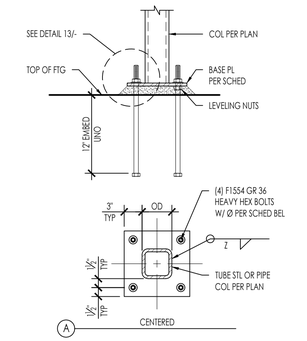


GLB TO STEEL COLUMN - END CONDITION

0822-03-ED25 - S401 - 21

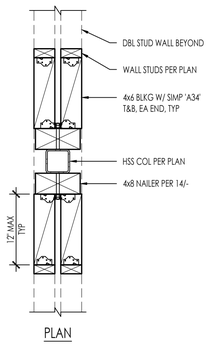
1" = 1'-0"

21



52

42



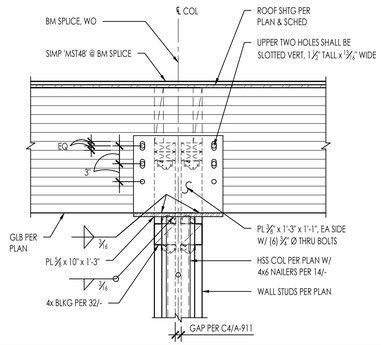
PLAN

HSS COLUMN NAILER @ DOUBLE WALL

0822-03-ED25 - S401 - 32

1" = 1'-0"

32



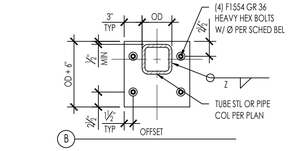
GLB TO STEEL COLUMN - MID CONDITION

0822-03-ED25 - S401 - 22

1" = 1'-0"

22

BASE PLATE SCHEDULE			
MEMBER SIZE (OD)	PL THICKNESS	WELD SIZE 'Z'	ANCHOR SIZE
4" OR LESS	⅜"	¼"	¾"Ø



BASE PLATE DETAIL

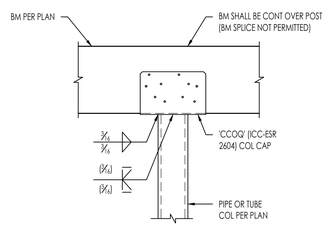
0822-03-ED25 - S401 - 12

NTS

12

53

43

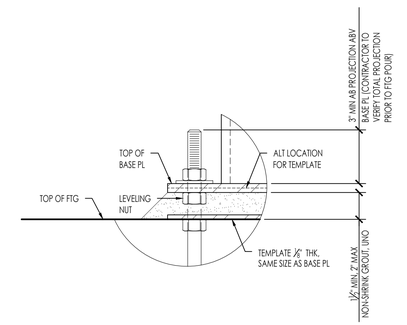


BEAM TO COL CONNECTION

0822-03-ED25 - S401 - 23

1" = 1'-0"

23



ANCHOR BOLT PROJECTION

0822-03-ED25 - S401 - 13

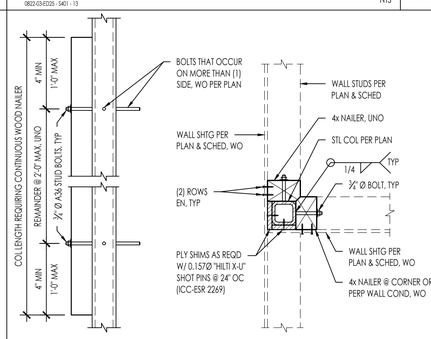
NTS

13

54

44

34



NOTE: WHERE NAILER OCCURS @ END OF WALL OR ADJACENT TO OPENING IN WALL, COUNTERBORE STUDS IN NAILER, 1" MAX

WOOD NAILER TO STEEL COLUMNS

0822-03-ED25 - S401 - 14

NTS

14

DSA BACK CHECK 2

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2555 S HALCYON RD, ARROYO GRANDE, CA

TYPICAL STEEL DETAILS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER
J. MEADOWS

DRAWN BY
C. PRESSLER

CHECKED BY
J. MEADOWS

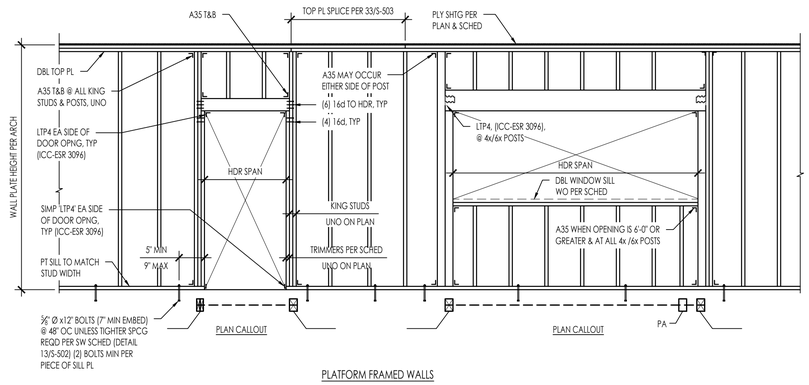
DATE
APRIL 23, 2026

PROJECT NUMBER
0822-03-ED25

SHEET
S-401

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BEARING/SHEAR WALL HEADER SCHEDULE					
1-STORY	6 INCH WALLS				
1-STORY	HDR SPAN	6x HEADER	SILL AT WINDOW	POST / TRIMMER	KING STUDS
	UP TO 3'-0"	6x4	2x	2x6	2x6
	UP TO 5'-0"	6x6	2x	2x6	2x6
	UP TO 7'-0"	6x8	(2) 2x	2x6	(2) 2x6



PLATFORM FRAMED WALLS

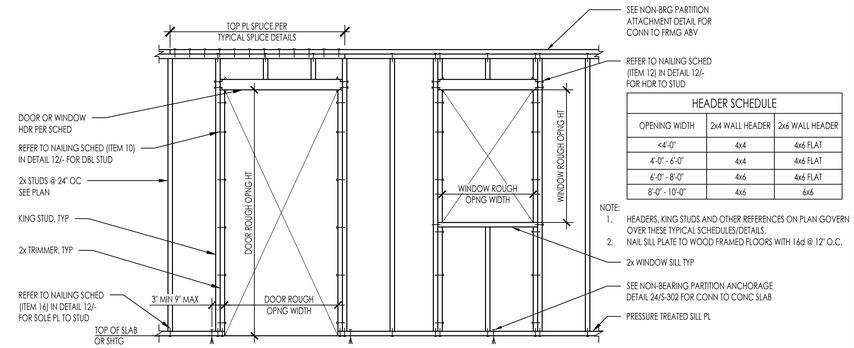
NOTES:
1. THIS DETAIL APPLIES AT ALL EXT WALLS AND INT LOAD BEARING WALLS AND ALSO APPLIES TO SHEAR WALL FRAMING
   A. FOR SHEAR WALLS SEE 34/S-402 FOR ADDTL REQUIREMENTS.
   B. FOR INTERIOR NON-BEARING PARTITIONS SEE DETAIL 43/-
2. HEADERS, KING STUDS AND OTHER REFERENCES ON PLAN GOVERN OVER THIS TYPICAL SCHED/DETAILS
3. PROVIDE A34 @ 4" WALLS & A35 @ 6" OR GREATER WALLS ([APMO ER-112)

FASTENING SCHEDULE PER 2022 CBC 2304.10.1		
CONNECTION	FASTENING	LOCATION
1. BLOCKING BETWEEN CEILING JOISTS, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW	3-8d COMMON	EACH END, TOENAIL
2. BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL TO TOP PLATE, TO RAFTER OR TRUSS	2-8d COMMON	EACH END, TOENAIL
	2-16d COMMON	END NAIL
3. FLAT BLOCKING TO TRUSS AND WEB FILLER	16d COMMON @ 6" OC	FACE NAIL
4. CEILING JOIST TO TOP PLATE	3-8d COMMON	EACH JOIST, TOENAIL
5. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS	3-16d COMMON	FACE NAIL
6. CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT)	3-16d COMMON	FACE NAIL
7. COLLAR TIE TO RAFTER	3-10d COMMON	FACE NAIL
8. RAFTER OR ROOF TRUSS TO PLATE	3-10d COMMON	TOENAIL[b]
9. ROOF RAFTER TO RIDGE VALLEY OR HIP RAFTER; OR ROOF RAFTER TO 2-INCH RIDGE BEAM	2-16d COMMON	END NAIL
	3-10d COMMON	TOENAIL
10. STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS	16d COMMON	16" OC FACE NAIL
11. BUILT-UP HEADER (2" TO 2" HEADER)	16d COMMON	16" OC EACH EDGE, FACE NAIL
12. CONTINUOUS HEADER TO STUD	4-10d COMMON	TOENAIL
13. TOP PLATE TO TOP PLATE	16d COMMON	16" OC FACE NAIL
14. TOP PLATE TO TOP PLATE, AT END JOINTS	8-16d COMMON	EACH SIDE OF END JOINT, FACE NAIL (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING	2-16d COMMON	16" OC FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	4-8d COMMON	TOENAIL
	2-16d COMMON	END NAIL
17. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON	FACE NAIL
18. JOIST TO SILL, TOP PLATE, OR GIRDER	3-8d COMMON	TOENAIL
20. RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW	8d COMMON	6" OC, TOENAIL
21. 1"x6" SUBFLOOR OR LESS TO EACH JOIST	2-8d COMMON	FACE NAIL
22. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON	FACE NAIL
23. BUILT-UP GIRDER AND BEAMS, 2" LUMBER LAYERS	20d COMMON (4" x 0.192")	32" OC FACE NAIL AT TOP AND BOTTOM STAGGERED ON APPOSITE SIDE
24. LEDGER STRIP SUPPORTING JOIST OR RAFTERS	3-16d COMMON	EACH JOIST OR RAFTER, FACE NAIL
26. JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON	END NAIL
27. BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS	2-8d COMMON	EACH END, TOENAIL

NOTES:
a. THIS NAILING SCHEDULE SHALL ONLY BE USED IF CONDITION IS NOT OTHERWISE DETAILED OR SPECIFIED ON THE CONSTRUCTION DOCUMENTS. COMMON NAILS SHALL BE USED EXCEPT WHERE OTHERWISE STATED
b. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL

EXTERIOR WALL / INTERIOR WALL BEARING WALL FRAMING

0822-03-ED25 - S501 - 32 — NTS — 32

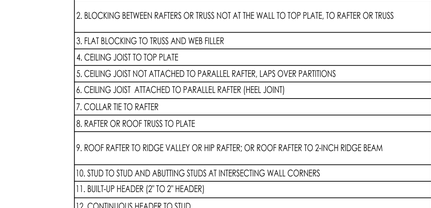


HEADER SCHEDULE		
OPENING WIDTH	2x4 WALL HEADER	2x6 WALL HEADER
<4'-0"	4x4	4x6 FLAT
4'-0" - 6'-0"	4x4	4x6 FLAT
6'-0" - 8'-0"	4x6	4x6 FLAT
8'-0" - 10'-0"	4x6	6x6

NOTE:
1. HEADERS, KING STUDS AND OTHER REFERENCES ON PLAN GOVERN OVER THESE TYPICAL SCHEDULES/DETAILS.
2. NAIL SILL PLATE TO WOOD FRAMED FLOORS WITH 16d @ 12" O.C.

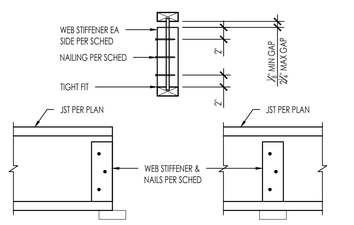
NAILING SCHEDULE

0822-03-ED25 - S501 - 12 — NTS — 12



INTERIOR NON-BEARING PARTITION WALL FRAMING

0822-03-ED25 - S501 - 43 — NTS — 43

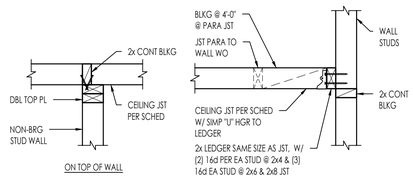


WEB STIFFENER REQUIREMENTS					
JOIST SERIES	DEPTH (IN)	MIN WEB STIFFENER SIZE	NAIL TYPE	# OF NAILS	
				END	INT
RED I-65	11 7/8"	1" X 2 5/16"[1)]	8d (0.113" X 2½")	3	3

NOTES:
1. PS1 SHEATHING, FACE GRAIN VERTICAL

CEILING JOIST SCHED & DETAILS

0822-03-ED25 - S501 - 33 — NTS — 33



CEILING JOIST SCHED	
JOIST SIZE	MAX SPAN
2x4 @ 16" OC	9'-0"
2x6 @ 16" OC	14'-0"
2x8 @ 16" OC	18'-0"

NOTE:
THIS DETAIL IS INTENDED FOR CEILING JST THAT SPAN FROM WALL TO WALL @ CONTRACTORS OPTION.

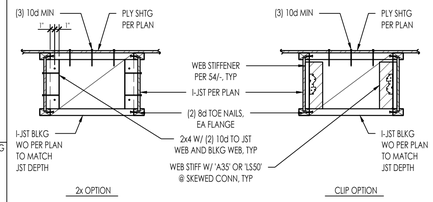
LOADING CRITERIA	
DEAD LOAD	10 PSF
LIVE LOAD	10 PSF

I-JOIST TO BEARING PLATE

0822-03-ED25 - S501 - 23 — NTS — 23

I-JOIST BLOCKING

0822-03-ED25 - S501 - 13 — NTS — 13

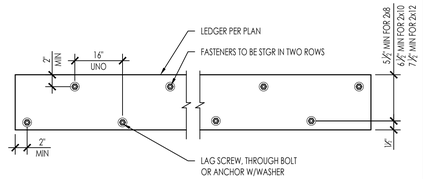


WEB STIFFENER ATTACHMENT

0822-03-ED25 - S501 - 54 — NTS — 54

LEDGER DETAIL

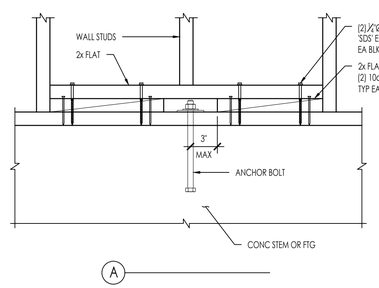
0822-03-ED25 - S501 - 44 — NTS — 44



NOTE:
THE TIP OF THE LAG SCREW SHALL FULLY EXTEND BEYOND THE INSIDE FACE OF THE BAND OR RIM JOIST

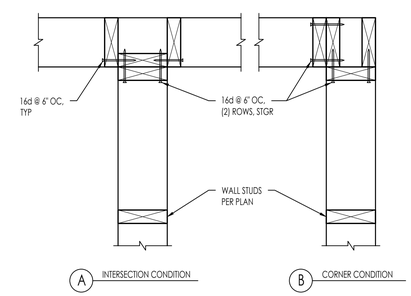
ANCHOR BOLT AT WOOD STUD

0822-03-ED25 - S501 - 34 — NTS — 34



TYPICAL WOOD STUD INTERSECTIONS

0822-03-ED25 - S501 - 24 — NTS — 24



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REGISTERED PROFESSIONAL ENGINEER — JESSICA M. MEADOWS — No. 6488 — STRUCTURAL — STATE OF CALIFORNIA

CONSULTANT

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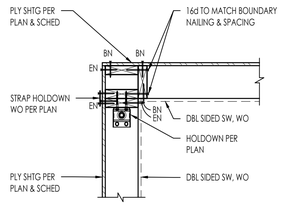
TYPICAL WOOD DETAILS

NO.	REVISION	DATE
1		
2		
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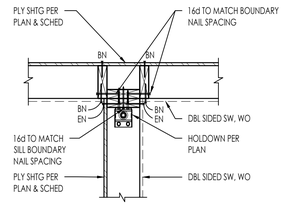
PROJECT MANAGER: J. MEADOWS
DRAWN BY: C. PRESSLER
CHECKED BY: J. MEADOWS
DATE: APRIL 23, 2026
PROJECT NUMBER: 0822-03-ED25
SHEET: S-501

DSA BACK CHECK 2

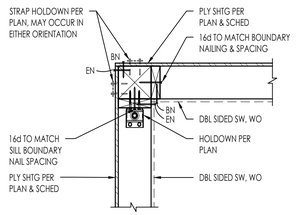
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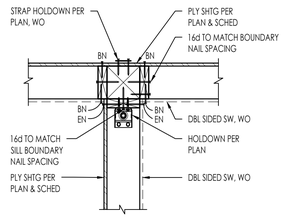
CORNER W/O POST



INTERSECTION W/O POST



CORNER W/ POST

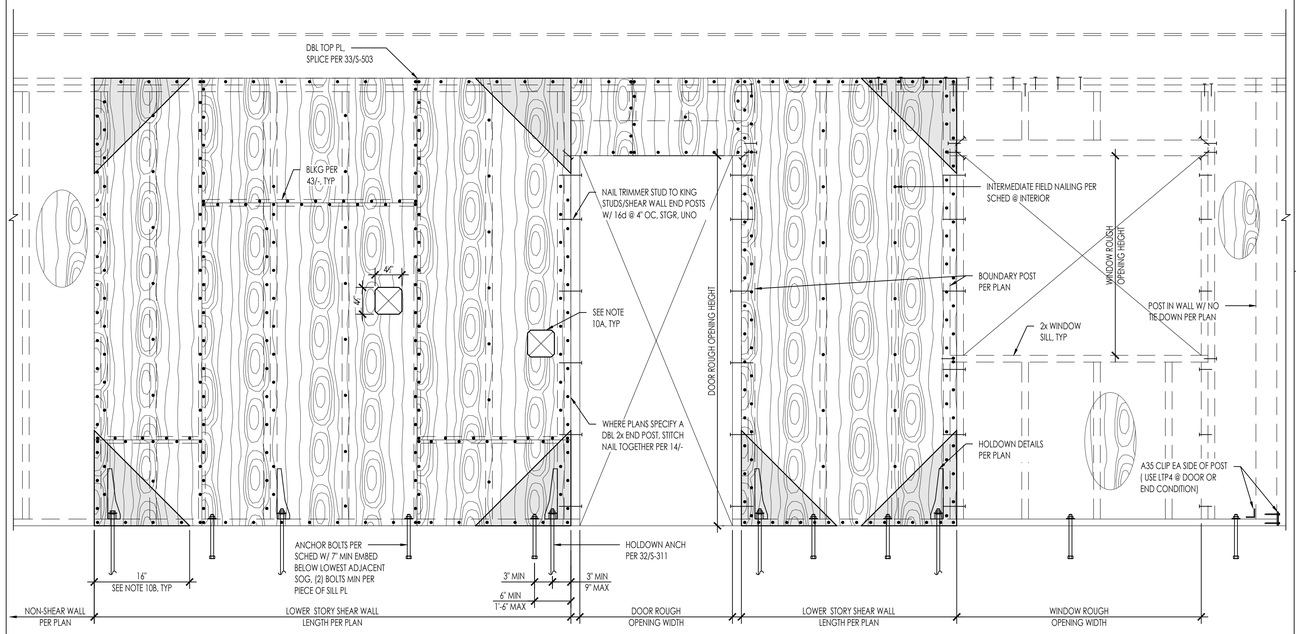


INTERSECTION W/ POST

SHEAR WALL INTERSECTION

0822-03-ED25 - S502 - 42

NTS | 42



SHEAR WALL SHEATHING / NAILING SCHEDULE									
WALL SYMBOL	STRUCT SHEATHING [1]	FRAMING SIZE [6]	NAILING [2,3,4]			A35s	LTP4 ALT [12]		ANCHOR BOLTING [8, 9]
			(2) 2x STUD	EDGE	INTERMEDIATE SUPPORTS		UNDER SHTG	OVER SHTG	
A	15/32" STRUCT 1 PLYWOOD	2x	10d @ 9" OC	8d @ 6" OC	8d @ 12" OC	24" OC	24" OC	16" OC	5/8" DIA @ 48" OC
B	15/32" STRUCT 1 PLYWOOD	2x	10d @ 8" OC	10d @ 6" OC	10d @ 12" OC	16" OC	24" OC	16" OC	5/8" DIA @ 48" OC
C	15/32" STRUCT 1 PLYWOOD	2x	10d @ 5" OC	10d @ 4" OC	10d @ 12" OC	12" OC	16" OC	8" OC	5/8" DIA @ 32" OC
D	15/32" STRUCT 1 PLYWOOD	2x	10d @ 4" OC	10d @ 3" OC	10d @ 12" OC	8" OC	12" OC	8" OC	5/8" DIA @ 24" OC
E	15/32" STRUCT 1 PLYWOOD	3x	10d @ 3" OC	10d @ 2" OC	10d @ 12" OC	8" OC	8" OC	6" OC	5/8" DIA @ 24" OC
A	15/32" STRUCT 1 PLYWOOD (EACH FACE OF WALL)	3x	(2) 10d @ 5" OC	10d @ 4" OC	10d @ 12" OC	12" OC [11]	16" OC [11]	8" OC [11]	5/8" DIA @ 16" OC
B	15/32" STRUCT 1 PLYWOOD (EACH FACE OF WALL)	3x	(2) 10d @ 4" OC	10d @ 3" OC	10d @ 8" OC	8" OC [11]	12" OC [11]	8" OC [11]	5/8" DIA @ 16" OC
A	15/32" STRUCT 1 PLYWOOD (EACH FACE OF WALL)	3x	(2) 10d @ 3" OC	10d @ 2" OC	10d @ 6" OC	8" OC [11]	8" OC [11]	6" OC [11]	5/8" DIA @ 8" OC

NOTES:
1. ALL PLYWOOD SHALL BE 5 PLY MINIMUM WITH A SPAN RATING OF 32/16 AND ALL PANEL EDGES SHALL BE BLOCKED. PROVIDE 1/8" GAP AT ALL PANEL JOINTS.
2. 8d NAIL DEFINED AS 0.131" DIAMETER SHANK x 2 1/2" LONG x 0.281 DIAMETER HEAD. 10d NAIL DEFINED AS 0.148" DIAMETER SHANK x 3" LONG x 0.312 DIAMETER HEAD.
3. PROVIDE E.N. AT ALL END STUDS, STUDS/POSTS WITH HOLDOWNS OR TIE DOWN STRAPS, SILL PLATES AND TOP PLATES.
4. WHERE 10d NAILS ARE 3 INCHES ON CENTER OR LESS, NAILS SHALL BE STAGGERED.
5. NAILS SHALL BE 1/2 INCH MINIMUM FROM PLYWOOD PANEL EDGE AND 3/8 INCH MINIMUM FROM CONNECTING MEMBER EDGE WHERE SHEAR EXCEEDS 300 PLF.
6. USE 3x FRAMING AT BOTTOM SILL PLATES, BLOCKING AND ALL STUDS AT ADJACENT PANEL EDGES WHERE SHEAR EXCEEDS 300 PLF. STRUCTURALLY ACCEPTABLE TO USE (2) 2x INSTEAD OF 3x FRAMING AT BOTTOM SILL PLATES.
7. SEE ELEVATION ABOVE FOR TYPICAL CONSTRUCTION.
8. REFER TO PLATE WASHER DETAIL FOR REQUIREMENTS
9. LENGTHEN ANCHOR BOLTS AS REQUIRED FOR EMBEDMENT AND SILL PLATE THICKNESS.
10. LIMITATIONS OF MECHANICAL PENETRATIONS IN SHEAR WALLS:
    A. 4 1/2" MAX PENETRATION
    B. NO CUTS OR HOLES IN SHEATHING WITHIN 16" OF CORNERS. SQUARE PENETRATIONS SHALL RADIUS EDGES. DO NOT OVER CUT HOLE WITH SAW
11. WALL W/ DOUBLE SIDED PLYWOOD REQUIRES (2) RIM BOARDS/BLOCKING, FASTENERS AND CLIPS WITH SPACING PER SCHED ARE REQUIRED ON EACH RIM BOARD OR BLOCKING LINE.
12. SIMPSON LTP4 CLIP SHALL BE INSTALLED IN A HORIZONTAL ORIENTATION. IF CLIP IS INSTALLED OVER THE SHEATHING, O.131" x 2 1/2" NAILS SHALL BE USED.

TYPICAL SHEAR WALL ELEVATION AND SCHEDULE

0822-03-ED25 - S502 - 13

NTS | 13

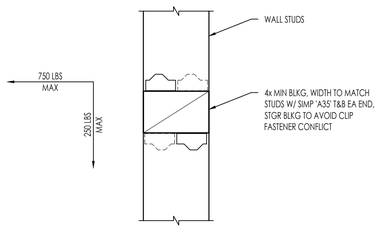
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REGISTERED PROFESSIONAL ENGINEER
JESSICA M. MEADOWS
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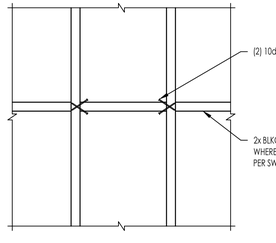
MAXIMUM LOADS LISTED ONLY APPLY TO A SINGLE DIRECTION AT ANY LOCATION.



BLOCKING AT WOOD STUDS

081407-CS1 - S501 - 44

NTS | 53



ELEVATION

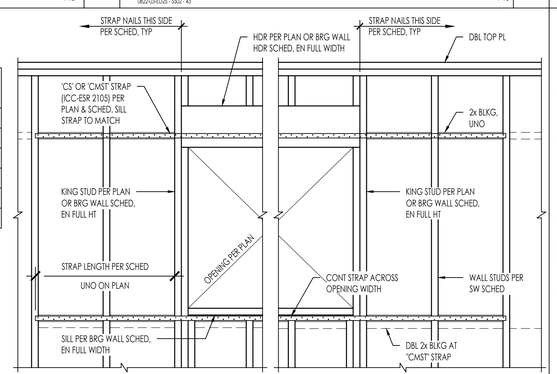
TYPICAL SHEAR WALL BLOCKING DETAIL

0822-03-ED25 - S502 - 43

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MARK	# OF BLKG	STRAP	NAILS EA SIDE OF OPENING	STRAP LENGTH (IN)	ALLOWABLE TENSION LOADS (LBS)
▽	1	CS20	(12) 10d x 2½"	32 [1]	1,030
▽	1	CS16	(20) 10d x 2½"		1,705
▽	1	CS14	(26) 10d x 2½"		2,490
▽	2	CMSTC16	(50) 10d x 3½"		4,690
▽	2	CMST14	(66) 10d x 2½"		6,475
▽	2	CMST12	(86) 10d x 2½"	39	9,215

NOTES:
1. 2 BAYS OR 32" MIN STRAP LENGTH
2. EDGE NAILING FROM PLYWOOD TO STUDS / FRAMING SHALL OCCUR ALL AROUND OPENINGS AT THIS CONDITION
3. SEE TYPICAL SHEAR WALL ELEVATION FOR BALANCE OF INFO NOT SHOWN



FORCE TRANSFER AROUND OPENINGS

0822-03-ED25 - S502 - 44

NTS | 44

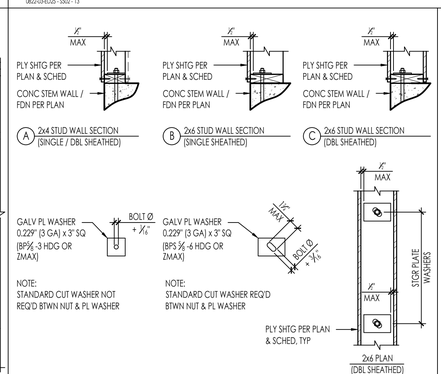
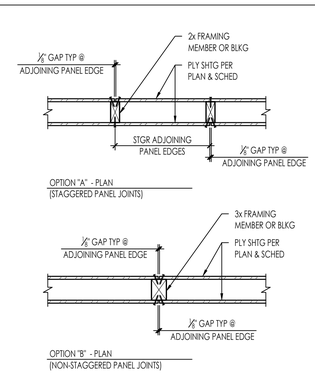


PLATE WASHER DETAIL

0822-03-ED25 - S502 - 34

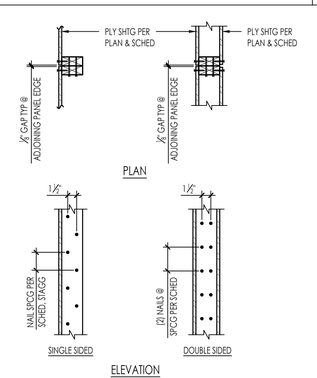
NTS | 34



DOUBLE SIDED SHEAR WALL

0822-03-ED25 - S502 - 24

NTS | 24



2x STUD NAILING @ ADJOINING PANEL EDGES

0822-03-ED25 - S502 - 14

NTS | 14

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TYPICAL WOOD DETAILS

NO.	REVISION	DATE

PROJECT MANAGER
J. MEADOWS

DRAWN BY
C. PRESSLER

CHECKED BY
J. MEADOWS

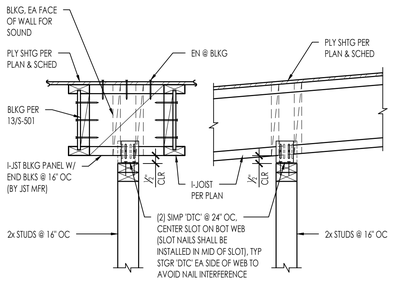
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APRIL 23, 2026

PROJECT NUMBER
0822-03-ED25

SHEET
S-502

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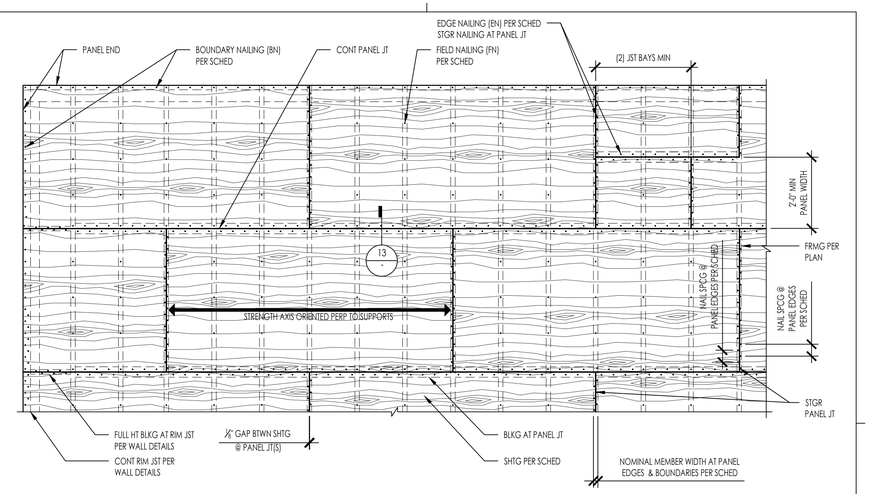
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NON-BEARING TOP PLATE CONNECTION

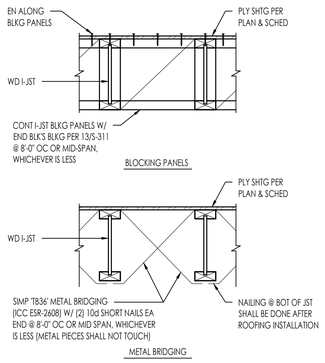
0822-03-ED25 - S503 - 51 NTS 51

41 31



DIAPHRAGM SCHEDULE												
TYPE	LOCATION	SHEATHING THICKNESS	SHEATHING GRADE	SPAN RATING	BLOCKING	NAILS	BOUNDARY NAILING (BN)	EDGE NAILING AT CONT. PANEL EDGES (EN)	EDGE NAILING AT OTHER PANEL EDGES (EN)	FIELD NAILING (FN)	PANEL EDGE SUPPORT OR NOMINAL MEMBER WIDTH AT PANEL EDGES	LINES OF FASTENERS
A	ROOF	15/32"	STRUCT 1	32 / 16	NO	10d	6	-	6	12	SIMP PSCA CLIP	1
B	ROOF	15/32"	STRUCT 1	32 / 16	YES	10d	4	6	6	12	2x	1

NOTES:
1. N/A
2. MINIMUM EDGE DISTANCE FOR NAILS SHALL BE ⅜" FROM SHEATHING EDGE AND ½" FROM LUMBER EDGE.
3. NAILS SHALL BE DRIVEN TIGHT TO TOP OF PLYWOOD SURFACE AND SHALL NOT PENETRATE THE TOP OF PLYWOOD MORE THAN COMMONLY EXPECTED WITH HAMMER DRIVEN NAILS.
4. WHERE PSCL CLIPS ARE SPECIFIED, THEY SHOULD BE INSTALLED AS FOLLOWS:
   A. ONE PSCL CLIP SHALL BE PLACED BETWEEN ABUTTING PANELS AT A LOCATION MIDWAY BETWEEN EACH PAIR OF TRUSSES, RAFTERS OR JOISTS. HOWEVER, (2) PSCL ARE REQUIRED BETWEEN SUPPORTS WHEN SPACED 48 INCHES ON CENTER
   B. USE THE SAME SIZE PANEL EDGE CLIP AS THE PANEL THICKNESS. PSCL CLIPS MUST FIT SNUGLY
   C. ABUTTING WOOD STRUCTURAL PANELS BE FITTED AS CLOSELY AS CLIPS PERMIT. OCCASIONAL MISFIT OF ABUTTING SHEETS MAY BE TOLERATED PROVIDING THAT GAPS DO NOT EXCEED MAXIMUM OPENING OF ⅛".



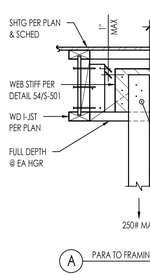
WOOD I-JOIST BRIDGING

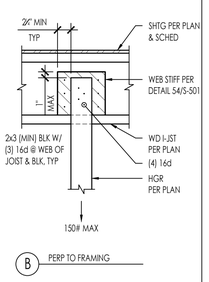
0822-03-ED25 - S503 - 52 NTS 52

42 32

PLYWOOD DIAPHRAGM SHEATHING

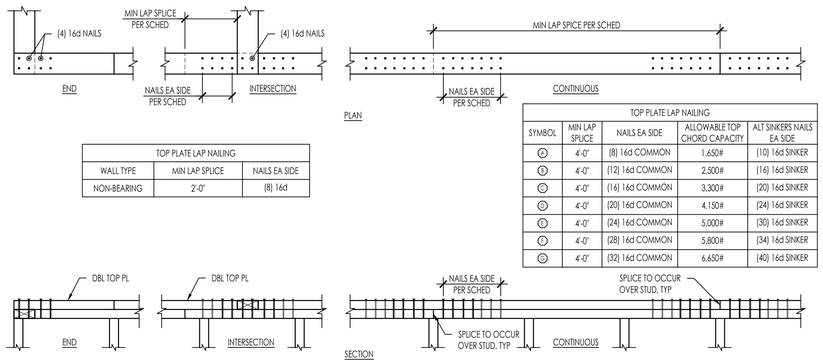
0822-03-ED25 - S503 - 12 NTS 12





SOFFIT HANGER STUD @ I-JST

W-TYP-041 NTS 53

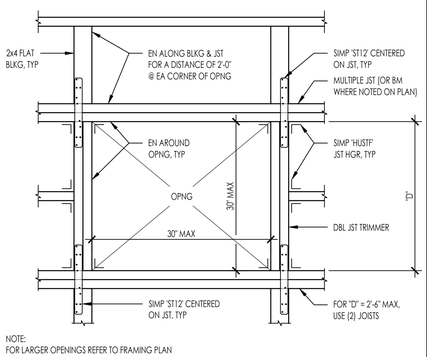


TOP PLATE LAP NAILING		
WALL TYPE	MIN LAP SPLICE	NAILS EA SIDE
NON-BEARING	2'-0"	(8) 16d

TOP PLATE LAP NAILING				
SYMBOL	MIN LAP SPLICE	NAILS EA SIDE	ALLOWABLE TOP CHORD CAPACITY	ALT SINKERS NAILS EA SIDE
A	4'-0"	(8) 16d COMMON	1,650#	(10) 16d SINKER
B	4'-0"	(12) 16d COMMON	2,500#	(16) 16d SINKER
C	4'-0"	(16) 16d COMMON	3,300#	(20) 16d SINKER
D	4'-0"	(20) 16d COMMON	4,150#	(24) 16d SINKER
E	4'-0"	(24) 16d COMMON	5,000#	(30) 16d SINKER
F	4'-0"	(28) 16d COMMON	5,800#	(34) 16d SINKER
G	4'-0"	(32) 16d COMMON	6,650#	(40) 16d SINKER

DBL TOP PLATE SPLICE NAILING

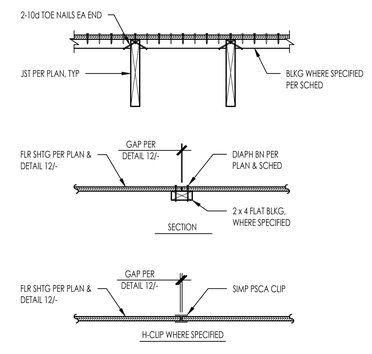
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NOTE:
FOR LARGER OPENINGS REFER TO FRAMING PLAN

OPENING AT ROOF FRAMING

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DIAPHRAGM PANEL JOINTS

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54 44 34 24 14

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TYPICAL WOOD DETAILS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: J. MEADOWS
DRAWN BY: C. PRESSLER
CHECKED BY: J. MEADOWS
DATE: APRIL 23, 2026
PROJECT NUMBER: 0822-03-ED25
SHEET: S-503

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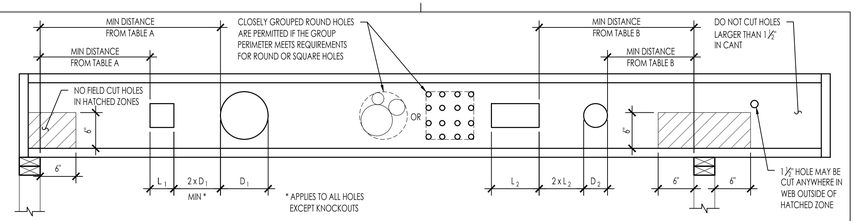


TABLE A - MINIMUM DISTANCE FROM EDGE OF HOLE TO INSIDE FACE OF NEAREST SUPPORT

Rec-I-Joist Series		ROUND HOLE SIZE (INCHES)									
JOIST DEPTH	JOIST SERIES	2"	4"	6"	8"	10"	12"	14"	16"	18"	20"
		SQUARE HOLE SIZE (INCHES)									
		1.25"	2.5"	4"	5"	6"	7"	8.5"	9.5"	10.5"	13"
14"	RED-I45	1'-0"	2'-0"	3'-0"	4'-0"	6'-0"					
	RED-I65	1'-0"	2'-6"	4'-0"	5'-6"	8'-0"					
	RED-I90 / RED-I90H	1'-0"	3'-0"	5'-0"	6'-6"	9'-0"					
	RED-I90HS	2'-0"	4'-0"	6'-0"	8'-0"						

TABLE B - MINIMUM DISTANCE FROM EDGE OF HOLE TO INSIDE FACE OF NEAREST INTERMEDIATE OR CANTILEVER SUPPORT

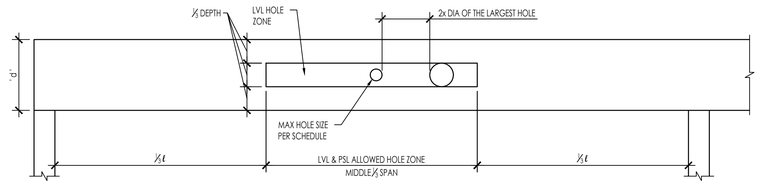
Rec-I-Joist Series		ROUND HOLE SIZE (INCHES)									
JOIST DEPTH	JOIST SERIES	2"	4"	6"	8"	10"	12"	14"	16"	18"	20"
		SQUARE HOLE SIZE (INCHES)									
		1.25"	2.5"	4"	5"	6"	7"	8.5"	9.5"	10.5"	13"
14"	RED-I45	1'-0"	1'-0"	3'-0"	5'-0"	7'-6"					
	RED-I65	1'-0"	1'-6"	4'-0"	7'-0"	10'-6"					
	RED-I90 / RED-I90H	1'-0"	3'-6"	6'-0"	9'-0"	12'-6"					
	RED-I90HS	4'-0"	6'-6"	9'-0"	11'-6"						

I-JOIST ALLOWABLE ROUND AND SQUARE LOCATIONS

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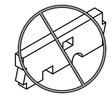
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11



LVL BEAMS & HEADERS	
HEADER OR BEAM DEPTH	MAX ROUND HOLE SIZE
4⅞"	1"
5½"	1 ⅜"
7¼" - 20"	2"

LVL:
1. ALLOWED HOLE ZONE SUITABLE FOR HEADERS AND BEAMS WITH UNIFORM LOADS ONLY.
2. ROUND HOLES ONLY.
3. NO HOLES IN CANTILEVERS.
4. NO HOLES IN HEADERS OR BEAMS IN PLANK ORIENTATION.



DO NOT CUT, NOTCH, OR DRILL HOLES IN HEADERS OR BEAMS EXCEPT AS INDICATED IN THE ILLUSTRATIONS AND TABLES

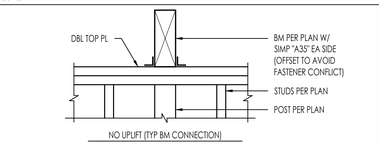
(A) LVL HEADERS & BEAMS

ALLOWABLE HOLES THRU ENGINEERED LUMBER HEADERS & BEAMS

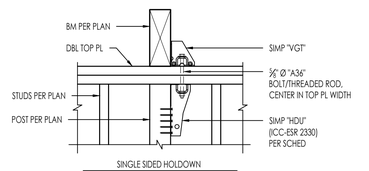
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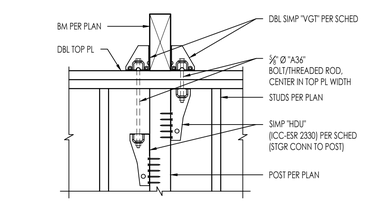
12



NO UPLIFT (TYP BM CONNECTION)



SINGLE SIDED HOLDOWN



DOUBLE HOLDOWN

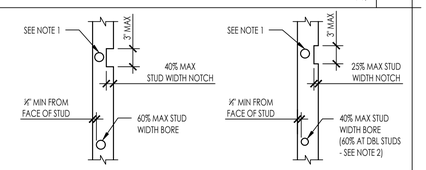
TYPE	HOLDOWN		MIN BM THICKNESS	FASTENERS		ALLOWABLE UPLIFT LOADS (LBS)
	TO GIRDER	TO POST		TO GIRDER	TO POST	
4A	(1) VGT	HDU4	3"	(16) SDS¼" x 3"	(6) SDS¼" x 1 1/2"	4,940
4B	(2) VGT	(2) HDU4	3"	(32) SDS¼" x 3"	(20) SDS¼" x 1 1/2"	7,185
			4½"	(32) SDS¼" x 3"	(20) SDS¼" x 1 1/2"	8,890
4C	(1) VGT R/L	HDU2	3"	(16) SDS¼" x 3"	(6) SDS¼" x 1 1/2"	2,230
4D	(2) VGT R/L	(2) HDU4	3"	(32) SDS¼" x 3"	(20) SDS¼" x 1 1/2"	5,545
4E	SIMPSON "A35"	-	-	-	-	--

BEAM TO WALL POST CONNECTION

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NTS

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NON-BEARING STUDS

EXTERIOR & BEARING STUDS

MAXIMUM BORED HOLE DIAMETER/NOTCH DEPTH			
STUD SIZE (IN)	APPLICATION	MAX HOLE DIAMETER (IN)	MAX NOTCH DEPTH (IN)
2X4	NON-BEARING	2½"	1 ⅜"
	EXTERIOR/BEARING	1 ⅜"	⅞"
2X6	NON-BEARING	3¼"	2 ⁵/₁₆"
	EXTERIOR/BEARING	2 ¾"	1 ⅜"

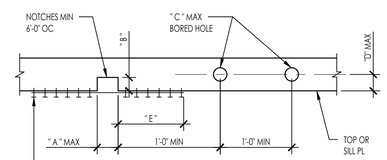
NOTES:
1. NOTCHING AND BORING NOT PERMITTED IN THE SAME STUD SECTION.
2. NO MORE THAN 2 SUCCESSIVE DBL. STUDS ARE PERMITTED TO HAVE 60% MAX BORED HOLES.

TYP WALL NOTCH AND BORING LIMITATIONS

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NOTCH AND HOLE LIMITATIONS*						
TOP PL OR SILL PL	A	B	C	D	E	F
2X4	3½"	1½"	1¼"	1½"	5¾"	6
2X6	4½"	2¼"	2¼"	2½"	8¾"	9

*BASED ON LADBS INFORMATIONAL BULLETIN/PUBLIC BUILDING CODE DOCUMENT No. P/BC 2020-007.

TOP PL AND SILL NOTCH AND BORING LIMITATIONS

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2555 S HALCYON RD, ARROYO GRANDE, CA

TYPICAL WOOD DETAILS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER
J. MEADOWS

DRAWN BY
C. PRESSLER

CHECKED BY
J. MEADOWS

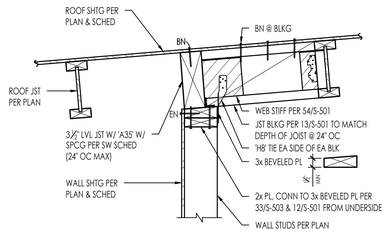
DATE
APRIL 23, 2026

PROJECT NUMBER
0822-03-ED25

SHEET
S-504

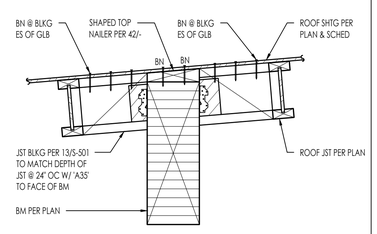
DSA BACK CHECK 2

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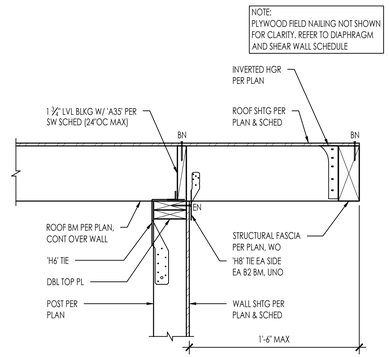
ROOF FRAMING PARA OVER SHEAR WALL BEL

0822-03-ED25 - S511 - 51 — 1" = 1'-0" — 51



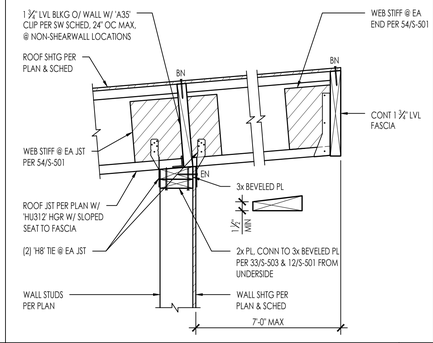
BEAM BRACING AT PARALLEL JOISTS

0822-03-ED25 - S511 - 41 — 1" = 1'-0" — 41



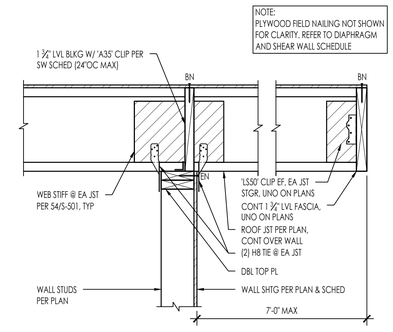
BM PERP TO BEARING WALL @ EAVE

0822-03-ED25 - S511 - 31 — 1" = 1'-0" — 31



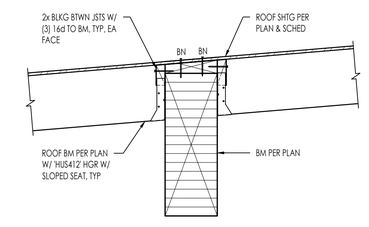
ROOF FRAMING @ EAVE

0822-03-ED25 - S511 - 21 — 1" = 1'-0" — 21



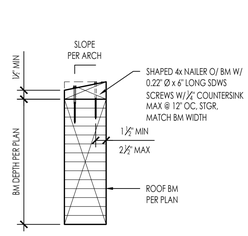
ROOF JOIST OVER WALL

0822-03-ED25 - S511 - 11 — 1" = 1'-0" — 11



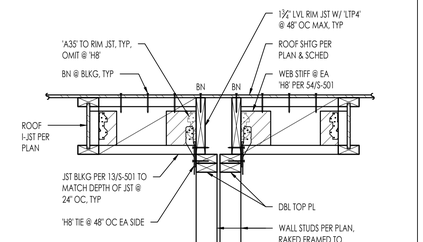
ROOF BEAM TO BEAM CONNECTION

0822-03-ED25 - S511 - 52 — 1" = 1'-0" — 52



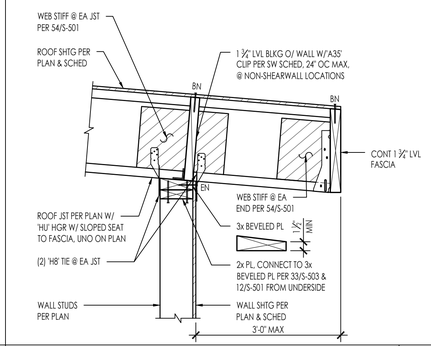
TOP NAILER @ GLB GIRDER

0822-03-ED25 - S511 - 42 — 1" = 1'-0" — 42



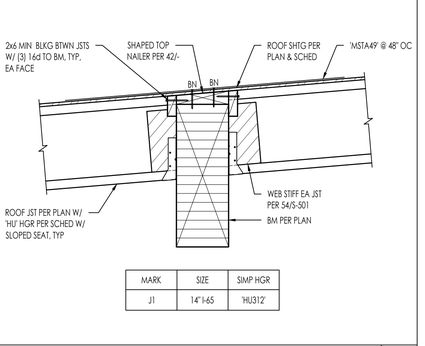
ROOF FRAMING PARA OVER WALL BELOW

0822-03-ED25 - S511 - 32 — 1" = 1'-0" — 32



ROOF FRAMING @ EAVE

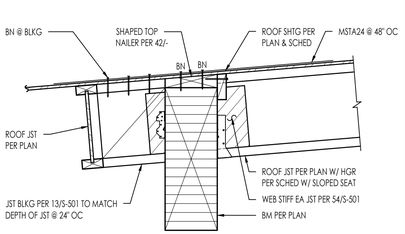
0822-03-ED25 - S511 - 22 — 1" = 1'-0" — 22



MARK	SIZE	SIMP HGR
J1	14" I-65	'HU312'

ROOF JOIST TO BEAM CONNECTION

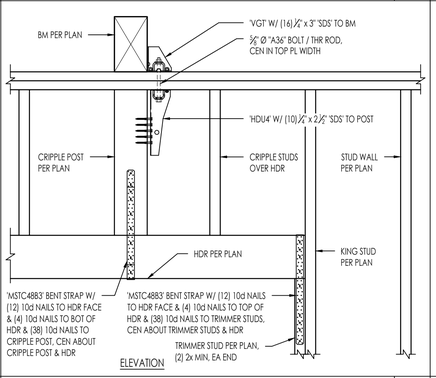
0822-03-ED25 - S511 - 12 — 1" = 1'-0" — 12



PLAN MARK	SIZE	SIMP HGR
J1	14" I-65	'HU312'

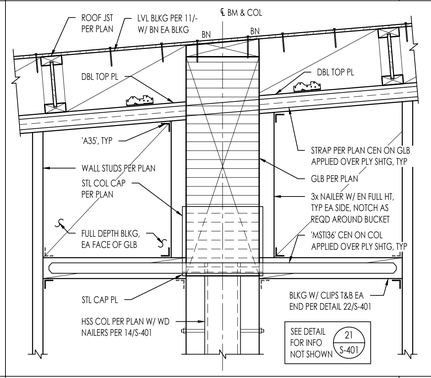
ROOF JOIST TO BEAM CONNECTION

0822-03-ED25 - S511 - 53 — 1" = 1'-0" — 53



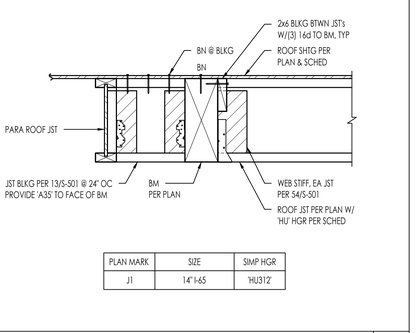
BEAM TIE DOWN AT HEADER

NTS — 43



GLUE-LAMINATED BEAM TO COLUMN

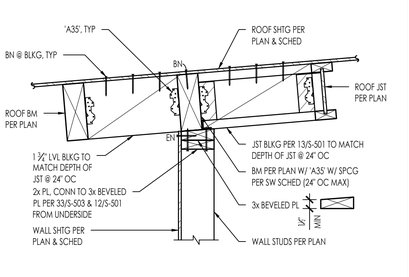
NTS — 23



PLAN MARK	SIZE	SIMP HGR
J1	14" I-65	'HU312'

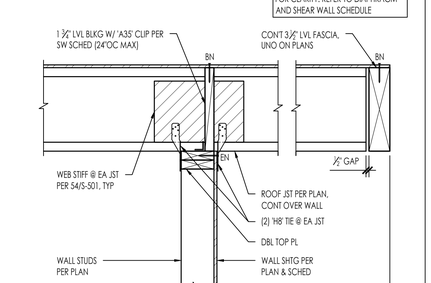
CHANGE OF DIRECTION @ BEAM

0822-03-ED25 - S511 — 1" = 1'-0" — 13



ROOF BEAM TO BEAM CONNECTION

0822-03-ED25 - S511 - 54 — 1" = 1'-0" — 54

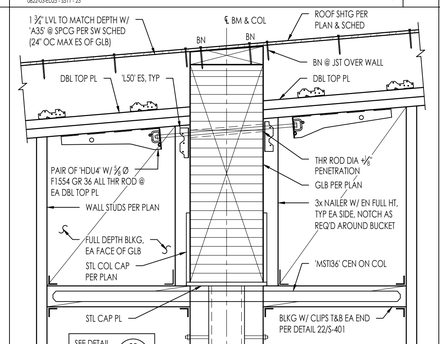


ROOF FRAMING PARA OVER SHEAR WALL BELOW

0822-03-ED25 - S511 - 44 — 1" = 1'-0" — 44

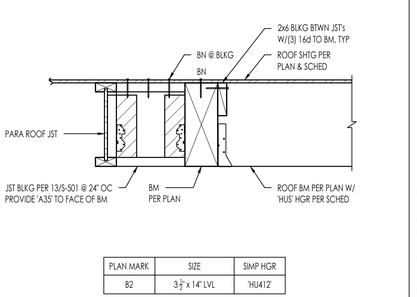
ROOF JOIST OVER WALL

0822-03-ED25 - S511 - 34 — 1" = 1'-0" — 34



GLUE-LAMINATED BEAM TO COLUMN

NTS — 24



PLAN MARK	SIZE	SIMP HGR
B2	3½" x 14" LVL	'HU412'

CHANGE OF DIRECTION @ BEAM

0822-03-ED25 - S511 — 1" = 1'-0" — 14

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STATE OF CALIFORNIA

CONSULTANT

MESA MS SPED SCIENCE BUILDING
2555 S HALCYON RD, ARROYO GRANDE, CA

ROOF FRAMING DETAILS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: J. MEADOWS
DRAWN BY: C. PRESSLER
CHECKED BY: J. MEADOWS
DATE: APRIL 23, 2026
PROJECT NUMBER: 0822-03-ED25
SHEET: S-511

DSA BACK CHECK 2

N:\08011.0822-03-ed25-mesa-ms-new-science-sped-class-bldg\structural\ConDocs\sheet-files\0822-03-ED25 - S511.dwg, S511, Apr 22, 2026 12:50pm, jellis

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	ADA	COMPONENTS	MANUFACTURER	MODEL	POWER V/Φ/HZ	DESCRIPTION	BRANCH PIPE SIZE				INSTALLATION DETAIL
								W	V	CW	HW	
DF-1	DRINKING FOUNTAIN DUAL HEIGHT	YES	FOUNTAIN	MOST DEPENDABLE FOUNTAINS, INC.	10485 WMSS	NA	WALL MOUNTED, STAINLESS STEEL, DUAL HEIGHT. PROVIDED WITH CARRIER PLATE. INSTALL PER ACCESSIBLE FACILITIES REQUIREMENTS	1-1/2"	1-1/2"	1/2"	NA	NA
FD-1	FLOOR DRAIN	NO	DRAIN	ZURN	Z415-BZ1	NA	6"Ø ROUND TOP NICKEL BRONZE STRAINER. NO HUB CONNECTION, VANDAL PROOF SCREWS AND TRAP PRIMER CONNECTION.	2"	1-1/2"	NA	NA	NA
HB-1	HOSE BIBB	NO	HOSE BIBB	ACORN	8121CP-LF	NA	EXPOSED, WALL MOUNT, POLISHED CHROME-PLATED FINISH. PROVIDE WITH VACUUM BREAKER AND REMOVABLE LOOSE TEE KEY HANDLE.	NA	NA	3/4"	NA	NA
HB-2	HOSE BIBB RECESSED	NO	HOSE BIBB	ACORN	8160	NA	RECESSED, WALL MOUNTED, FREEZELESS, PROVIDE WITH VACUUM BREAKER AND LOOSE TEE KEY.	NA	NA	3/4"	NA	NA
LAV-1	LAVATORY WALL MOUNTED	YES	SINK	KOHLER	K-2005	NA	WALL MOUNTED, VITREOUS CHINA, WHITE, 21-1/4x18-1/8. 0.5 GPM DECK MOUNTED FAUCET. PROVIDE WITH WALL CARRIER. INSTALL PER ACCESSIBLE FACILITIES REQUIREMENTS.	2"	1-1/2"	1/2"	1/2"	9/P-001
			FAUCET	CHICAGO	3600-E2805AB	NA						
			CARRIER	JOSAM	17100	NA						
S-1	SINK DROP-IN SINGLE BOWL	YES	SINK	JUST MANUFACTURING	CRA-ADA-1931A65-J	NA	31x19-1/2x6-1/2 DROP-IN STAINLESS STEEL SINK WITH FAUCET AND BUBBLER. LM SLOTTED HOLE CONFIGURATION. INSTALL PER ACCESSIBLE FACILITIES REQUIREMENTS.	2"	1-1/2"	1/2"	1/2"	NA
			FAUCET	CHICAGO	350-ABCP	NA						
			BUBBLER	HAWS	5054LF	NA						
S-2	SINK DROP-IN SINGLE BOWL	YES	SINK	JUST MANUFACTURING	CRA-ADA-1931A65-J	NA	31x19-1/2x6-1/2 DROP-IN STAINLESS STEEL SINK WITH FAUCET AND EYE WASH. LM SLOTTED HOLE CONFIGURATION. INSTALL PER ACCESSIBLE FACILITIES REQUIREMENTS.	2"	1-1/2"	1/2"	1/2"	NA
			FAUCET	CHICAGO	350-ABCP	NA						
			EYEWASH	HAWS	7612	NA						
WC-1	WATER CLOSET FLOOR MOUNT FLUSH VALVE	YES	WATER CLOSET	KOHLER	K-96057	NA	FLOOR MOUNTED, ELONGATED BOWL WITH OPEN FRONT SEAT. MANUAL FLUSH VALVE, 1.28 GPF. LOCATE HANDLE ON WIDE SIDE OF FIXTURE. INSTALL PER ACCESSIBLE FACILITIES REQUIREMENTS.	3"	2"	1-1/4"	NA	NA
			FLUSH VALVE	SLOAN	111	NA						
			SEAT	BEMIS	1955SSCT	NA						

GENERAL NOTES APPLICABLE TO ALL FIXTURES:
A. BRANCH PIPE SIZES TO INDIVIDUAL FIXTURES SHALL BE AS SCHEDULED UNLESS OTHERWISE SPECIFIED.
B. FIXTURES SCHEDULED AS ACCESSIBLE SHALL BE INSTALLED PER ACCESSIBLE FACILITIES REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS.
C. UNLESS OTHERWISE NOTED, COORDINATE SINK FAUCET MOUNTING HOLES WITH THE SPECIFIED FAUCET. FAUCETS SHALL BE CENTERED OVER THE BOWL. SINKS SHALL NOT BE PROVIDED WITH SPARE MOUNTING HOLES THAT ARE NOT COVERED BY THE FAUCET.
D. MANUAL FLUSH VALVES SHALL BE INSTALLED WITH THE HANDLE ON THE WIDE SIDE OF THE WATER CLOSET.

FLOW ACTIVATED ELECTRIC WATER HEATER SCHEDULE

TAG	MAKE	MODEL	INSTALLATION LOCATION	ACTIVATION (GPM)	FLOW (GPM / TEMP RISE)	ELECTRICAL DATA			OPERATING WEIGHT (LBS)	NOTES (SEE BELOW)	INSTALLATION DETAIL
						POWER V/Φ/HZ	WATTS	MOCP			
WH 1	CHRONOMITE	SR-15L/120	STUDENT RR / 304	0.35	0.35 / 47 0.50 / 33	120/1/60	1800	20	5	1	4/P-001
WH 2	CHRONOMITE	SR-15L/120	STAFF RR / 303	0.35	0.35 / 47 0.50 / 33	120/1/60	1800	20	5	1	4/P-001

NOTES: 1. DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.

CONDENSATE PUMP SCHEDULE

TAG	MAKE	MODEL	HP	INSTALLATION TYPE	ELECTRICAL DATA			FEET OF HEAD	GPH	OPERATING WEIGHT LBS	INSTALLATION DETAIL
					POWER V/Φ/HZ	AMPS	WATTS				
CDP 1	LITTLE GIANT	VCMA-20	1/30	ON FINISHED FLOOR	120/1/60	1.5	93	10'	48	5	6/P-001

GENERAL NOTES APPLICABLE TO ALL UNITS:
A. DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.

UNIT SPECIFIC NOTES:
1. PUMP IS PROVIDED WITH A INTEGRAL CHECK VALVE ON THE DISCHARGE.
2. PUMP DISCHARGE IS 3/8" OD BARBED ADAPTER. TRANSITION FROM BARBED CONNECTION TO 3/4" COPPER.

SHEET INDEX

SHEET NUMBER	SHEET TITLE
P-000	GENERAL & SCHEDULES
P-001	DETAILS
P-100	FLOOR PLAN - WASTE & VENT
P-110	FLOOR PLAN - HOT & COLD WATER

PROJECT TEAM LIST

TITLE	NAME	DESK NUMBER	EMAIL ADDRESS
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PROJECT MANAGER	DENVER STANGER	805.634.8711	DSTANGER@EMCOR.NET
MECHANICAL DESIGNER	MOE QADDOURA	805.595.0934	MQADDOURA@EMCOR.NET
PLUMBING DESIGNER	ELI FERMAN	805.634.8818	EFERMAN@EMCOR.NET
ENERGY COMPLIANCE	JORGE BRAVO	805.595.0894	JBRAVO@EMCOR.NET

MECHANICAL, ELECTRICAL AND PLUMBING ANCHORAGE NOTE

1. ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED ON 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.
   - A. ALL PERMANENT EQUIPMENT AND COMPONENTS.
   - B. 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.
   - C. 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.
2. 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.
3. THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

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

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

MP	X	MD	X	PP	X	E	OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH THE PROJECT SPECIFIC NOTES AND DETAILS
MP		MD		PP		E	OPTION 2: SHALL COMPLY WITH HCAI (OSHPD) PREAPPROVAL (OPM #) #OPM-0052-13, AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

NOTE: REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ITEMS RELATED TO THE ELECTRICAL SYSTEM. LOW VOLTAGE CONDUIT FOR MECHANICAL SYSTEM CONTROLS SHALL BE IN ACCORDANCE WITH THE ELECTRICAL REQUIREMENTS.

PLUMBING LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
		BALL VALVE
	COTG	CLEAN OUT TO GRADE
Ø	DIA	DIAMETER
		ELECTRICAL PHASE
	FCO	FLOOR CLEAN OUT
	HB	HOSE BIBB
		RECESSED HOSE BIBB
		SHUT OFF VALVE IN PIPE DROP OR PIPE RISER
	T&P	TEMPERATURE AND PRESSURE RELIEF VALVE
	TPV	TRAP PRIMER VALVE
		UNION
		PIPE DOWN
		PIPE UP
		PIPE TEE DOWN
		PIPE INTERSECTION
	PRV	PRESSURE REDUCING OR REGULATOR VALVE
WCO	WCO	WALL CLEANOUT
	CO	CLEANOUT
	WHA	WATER HAMMER ARRESTOR
	CW	COLD WATER
CD	CD	CONDENSATE DRAIN
	HW	HOT WATER
	V	SANITARY VENT
TP	TP	TRAP PRIMER WATER SUPPLY
	S/W	WASTE (BELOW GRADE)
22x30 MIN AP	AP	ACCESS PANEL. SIZE GIVEN INDICATES MINIMUM SIZE REQUIRED
FFE 0.00'	FFE	FINISHED FLOOR ELEVATION USED TO DETERMINE PIPING INVERT ELEVATIONS

PLUMBING GENERAL NOTES

1. 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 (CAL GREEN): PART 11, TITLE 24 CCR

   REPORT DEFICIENCIES WITHIN THIRTY (30) DAYS UPON AUTHORIZATION TO PROCEED.
2. NO PLUMBING SHALL BE INSTALLED UNTIL ALL REQUIRED PLUMBING PLAN CHECK PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM ALL REQUIRED AGENCIES.
3. LAVATORY FAUCETS, SINK FAUCETS (NOT INCLUDING SERVICE SINK FAUCETS OR FAUCETS DESIGNATED AS INSTITUTIONAL) SHALL MEET THE FLOW REQUIREMENTS OUTLINED IN THE APPLIANCE EFFICIENCY STANDARDS.
4. COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURES AND DRAINS.
5. PROVIDE ALL TAILPIECES, TRAPS, STOPS, AND SUPPLY PIPES TO LAVATORIES DESIGNED AS ACCESSIBLE, WITH PREFORMED INSULATION JACKET.
6. COORDINATE AND SCHEDULE TIMING FOR ALL UTILITY SERVICE CONNECTIONS.
7. ALL LINES BELOW SLAB ON GRADE TO BE LOCATED AWAY FROM ALL LOAD BEARING FOOTINGS.
8. ALL VENTS THRU ROOF SHALL BE MINIMUM OF 36 INCHES ABOVE ANY MECHANICAL VENTILATION AIR INTAKE WITHIN 10 FEET. PROVIDE VANDAL PROOF HOODS ON ALL VENTS THROUGH ROOF.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS, ROOFS, FOOTINGS, FLOORS, INCLUDING ALL SAW CUTTING AND CORE DRILLING. COORDINATE ALL SAW CUTTING AND CORE DRILLING WITH STRUCTURAL DRAWINGS. ANY CUTTING AND DRILLING REQUIRED OF STRUCTURAL ELEMENTS THAT IS NOT SPECIFICALLY SHOWN ON THE PLANS SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION PRIOR TO CUTTING AND DRILLING. CONTRACTOR SHALL SUBMIT PROPOSED LOCATION AND SIZES OF SUCH CUTTING AND DRILLING FOR THE ARCHITECTS AND STRUCTURAL ENGINEERS APPROVAL.
10. COORDINATE ALL EQUIPMENT LOCATIONS, PIPE PENETRATIONS AND EQUIPMENT PAD LOCATIONS WITH STRUCTURAL DRAWING PRIOR TO WORK.
11. COORDINATE INSTALLATION OF ALL EQUIPMENT AND PIPING WITH OTHER TRADES PRIOR TO INSTALLATION. ENSURE THAT ALL CONTROL DEVICES, SHUT-OFF VALVES, ETC. ARE ACCESSIBLE FOR MAINTENANCE. WHERE ACCESS PANELS IN FINISHED SPACES, OTHER THAN THAT SHOWN, CONTRACTOR SHALL PROVIDE AND COORDINATE EXACT LOCATION OF PANELS WITH ARCHITECT PRIOR TO INSTALLATION.
12. ANY STRUCTURAL FIREPROOFING DAMAGED DURING INSTALLATION OF PLUMBING EQUIPMENT, PIPING, ETC. SHALL BE REPAIRED AT NO COST TO THE OWNER. REPAIRS SHALL BE AS DIRECTED BY THE ARCHITECT.
13. ALL PIPING PASSING THROUGH CONCRETE/MASONRY WALLS AND FLOORS ARE TO BE SLEEVED.
14. NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE PER 2022 CPC 609.10. THE METHOD TO BE FOLLOWED SHALL BE THAT PRESCRIBED BY THE HEALTH AUTHORITY OR, IN CASE NO METHOD IS PRESCRIBED BY IT, THE FOLLOWING:

A) THE PIPE SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL POTABLE WATER APPEARS AT THE POINTS OF OUTLET.
B) THE SYSTEM OR PARTS THEREOF SHALL BE FILLED WITH A WATER-CHLORINE SOLUTION CONTAINING NOT LESS THAN 50 PARTS PER MILLION OF CHLORINE, AND THE SYSTEM OR PART THEREOF SHALL BE VALVED-OFF AND ALLOWED TO STAND FOR 24 HOURS; OR, THE SYSTEM OF PART THEREOF SHALL BE FILLED WITH A WATER-CHLORINE SOLUTION CONTAINING NOT LESS THAN 200 PARTS PER MILLION OF CHLORINE AND ALLOWED TO STAND FOR 3 HOURS.
C) FOLLOWING THE ALLOWED STANDING TIME, THE SYSTEM SHALL BE FLUSHED WITH CLEAN, POTABLE WATER UNTIL THE CHLORINE RESIDUAL IN THE WATER COMING FROM THE SYSTEM DOES NOT EXCEED THE CHLORINE RESIDUAL IN THE FLUSHING WATER.
D) THE PROCEDURE SHALL BE REPEATED WHERE IT IS SHOWN BY BACTERIOLOGICAL EXAMINATION MADE BY AN APPROVED AGENCY THAT CONTAMINATION PERSISTS IN THE SYSTEM.

PLUMBING TITLE 24 NOTES

1. PROVIDE WATER HEATERS CERTIFIED IN COMPLIANCE WITH CALIFORNIA ENERGY APPLIANCE EFFICIENCY STANDARDS.
2. PROVIDE DOMESTIC HOT WATER PIPING INSULATION IN ACCORDANCE WITH THE CALIFORNIA ENERGY EFFICIENCY STANDARDS.

PLUMBING CAL GREEN NOTES

1. LAVATORY FAUCETS IN PUBLIC USE RESTROOMS (NOT INCLUDING SLEEPING ROOM UNITS) SHALL BE THE SELF CLOSING TYPE.
2. LAVATORY FAUCETS: 0.5 GPM MAX.
3. SINK FAUCETS: 1.5 GPM MAX.
4. TOILETS: 1.28 GPF MAX.

PLUMBING ABBREVIATIONS

ABV	ABOVE	GPM	GALLONS PER MINUTE
ADA	AMERICANS WITH DISABILITIES ACT	GW	GREASE WASTE
AFF	ABOVE FINISHED FLOOR	HP	HORSE POWER
AG	ABOVE GRADE	HW	HOT WATER
AHJ	AUTHORITY HAVING JURISDICTION	IE	INVERT ELEVATION
ALUM	ALUMINUM	IN/H	INCHES PER HOUR
AMP	AMPERAGE	IWC	INCHES OF WATER COLUMN
AP	ACCESS PANEL	KW	KILOWATTS
ARCH	ARCHITECT, ARCHITECTURAL	LAV	LAVATORY
BEL	BELOW	LBS	POUNDS
BF	BELOW FLOOR	MAX	MAXIMUM
BG	BELOW GRADE	MBH	1000 BRITISH THERMAL UNITS PER HOUR
BFP	BACKFLOW PREVENTOR	MCA	MINIMUM CIRCUIT AMPS
BLDG	BUILDING	MECH	MECHANICAL
BOD	BASIS OF DESIGN	MFGR	MANUFACTURE OR MANUFACTURER
BTUH	BRITISH THERMAL UNIT PER HOUR	MIN	MINIMUM
CA	COMBUSTION AIR	(N)	NEW
CD	CONDENSATE DRAIN	NPS	NOMINAL PIPE SIZE
CFH	CUBIC FEET PER HOUR	NTS	NOT TO SCALE
CI	CAST IRON	PH	PHASE
CONN	CONNECTION	PSI	POUNDS PER SQUARE INCH
CONT	CONTINUATION	PW	PROCESS WASTE
CP	CHROME PLATED	RM	ROOM
CPC	CALIFORNIA PLUMBING CODE	RPM	REVOLUTIONS PER MINUTE
COTG	CLEAN OUT THROUGH GRADE	SDL	STORM DRAIN LEADER
CW	COLD WATER	SDO	STORM DRAIN OVERFLOW
DFU	DRAINAGE FIXTURE UNITS	SOV	SHUT OFF VALVE
DN	DOWN	SS	STAINLESS STEEL
DSA	DIVISION OF THE STATE ARCHITECT	TEMP	TEMPORARY, TEMPERATURE
(E)	EXISTING	TYP	TYPICAL
EC	EVAPORATIVE COOLER	UON	UNLESS OTHERWISE NOTED
EFF	EFFICIENCY	UTR	UP TO OR UP THROUGH ROOF
ELEC	ELECTRICAL	V	VENT
EQPT	EQUIPMENT	VAC	VACUUM
FCO	FLOOR CLEAN OUT	VEX	VEHICLE EXHAUST SYSTEM
FFE	FINISH FLOOR ELEVATION	VTR	VENT THROUGH ROOF
FLA	FULL LOAD AMPS	W	WASTE
FLR	FLOOR	WC	WATER CLOSET
FPS	FEET PER SECOND	WCO	WALL CLEAN OUT
FR	FROM	WHA	WATER HAMMER ARRESTOR
FT	FLUSH TANK	WSFU	WATER SUPPLY FIXTURE UNIT
FV	FLUSH VALVE	WT	WEIGHT EXPRESSED IN POUNDS
GA	GAGE OR GAUGE	W/	WITH
GPC	GALLONS PER CYCLE	W/O	WITHOUT
GPF	GALLONS PER FLUSH		

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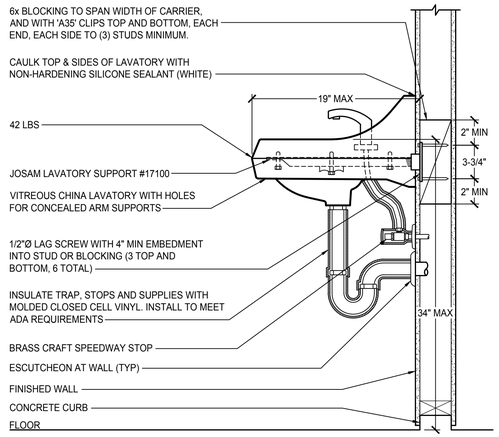
GENERAL & SCHEDULES

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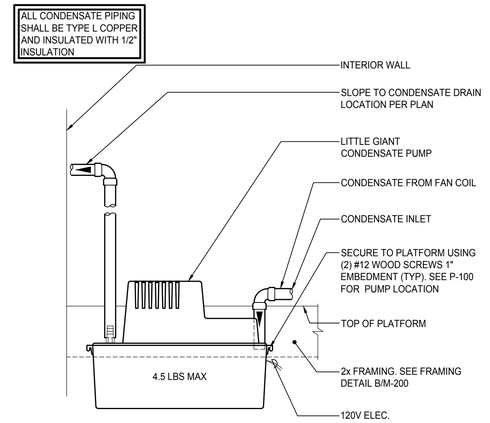
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CHECKED BY: BS
DATE: APRIL 23, 2026
PROJECT NUMBER: 0822-03-ED25
SHEET: P-000

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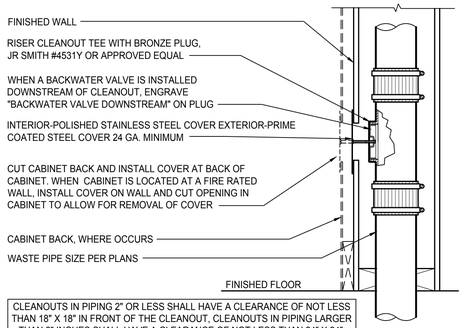
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9 LAVATORY INSTALLATION
NTS



6 FAN COIL CONDENSATE PUMP
NTS

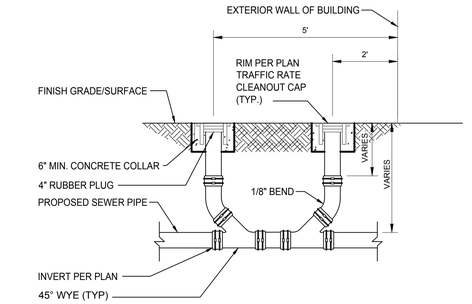


CLEANOUTS IN PIPING 2" OR LESS SHALL HAVE A CLEARANCE OF NOT LESS THAN 18" X 18" IN FRONT OF THE CLEANOUT, CLEANOUTS IN PIPING LARGER THAN 2" INCHES SHALL HAVE A CLEARANCE OF NOT LESS THAN 24" X 24".

CLEANOUTS: CPC TABLE 707.1

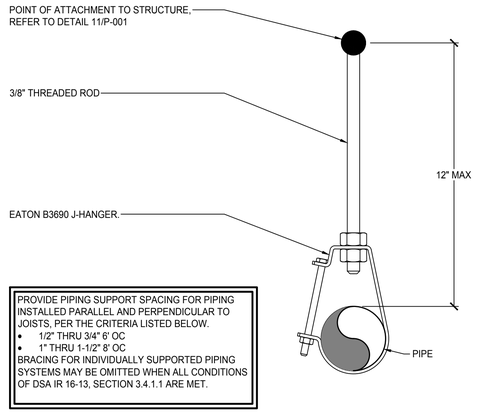
PIPE SIZE	CLEANOUT SIZE	THREADS (PER INCH)
1-1/2" - 2"	1-1/2"	11-1/2
2-1/2" - 3"	2-1/2"	8
4" & LARGER	3-1/2"	8

3 WALL CLEANOUT
NTS



NOTES:
1) CHIMNEY SIZE AND CONNECTIONS SHALL BE 4".
2) PIPE AND FITTINGS SHALL BE PVC
3) BEDDING AND BACKFILL SHALL BE THE SAME AS FOR MAIN SEWER.

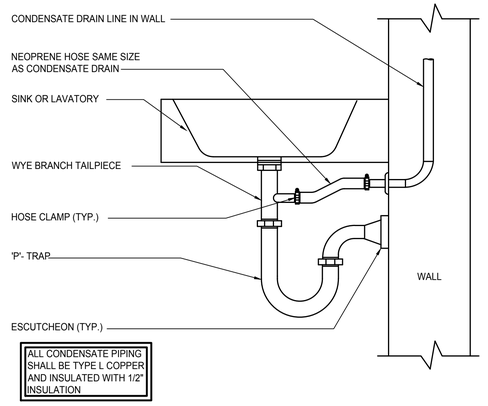
1 CLEANOUT TO GRADE
NTS



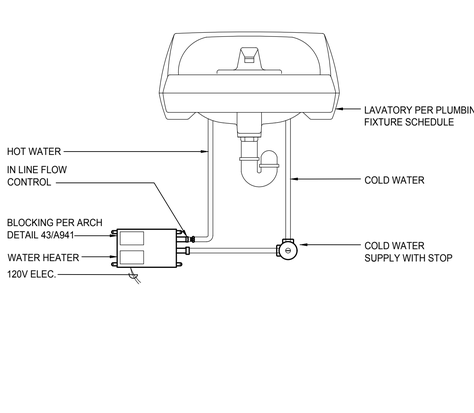
PROVIDE PIPING SUPPORT SPACING FOR PIPING INSTALLED PARALLEL AND PERPENDICULAR TO JOISTS, PER THE CRITERIA LISTED BELOW.
- 1/2" THRU 3/4" 6' OC
- 1" THRU 1-1/2" 8' OC

BRACING FOR INDIVIDUALLY SUPPORTED PIPING SYSTEMS MAY BE OMITTED WHEN ALL CONDITIONS OF DSA IR 16-13, SECTION 3.4.1.1 ARE MET.

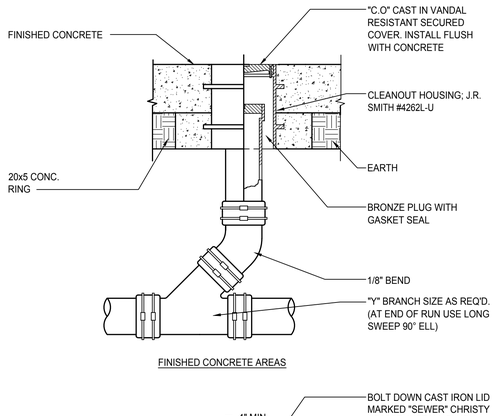
10 PIPE SUPPORT - SINGLE
NTS



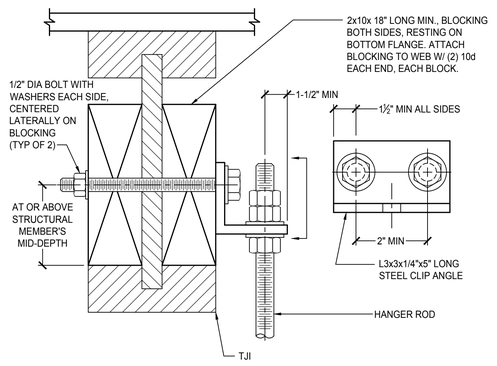
7 CONDENSATE TO TAIL PIECE DETAIL
NTS



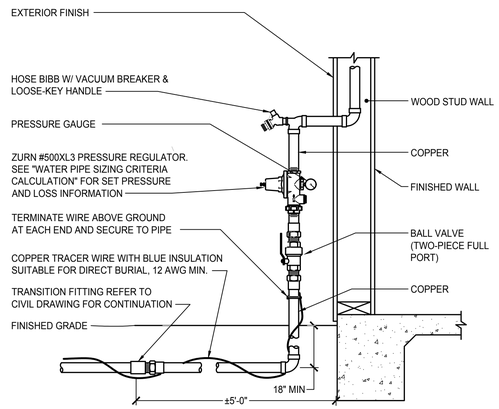
4 POU TANKLESS ELECTRIC WATER HEATER
NTS



FINISHED CONCRETE AREAS

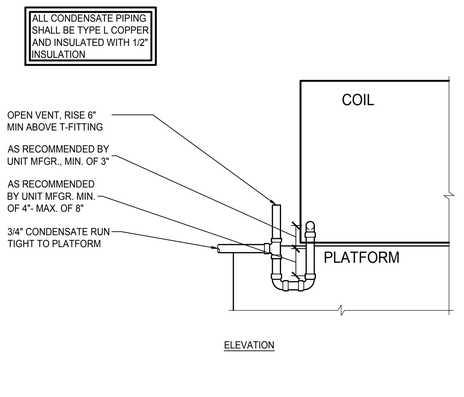


11 CONNECTION TO TJI
NTS



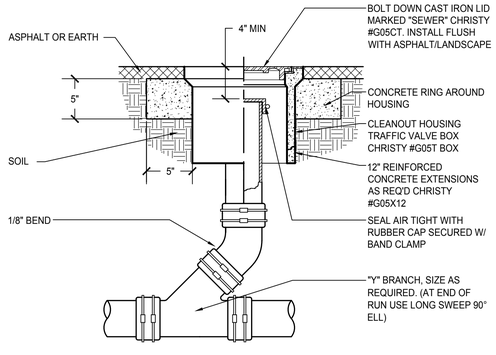
8 BUILDING WATER SUPPLY
NTS

ALL CONDENSATE PIPING SHALL BE TYPE L COPPER AND INSULATED WITH 1/2" INSULATION



ELEVATION

5 FAN COIL CONDENSATE DRAIN
NTS



ASPHALT & LANDSCAPED AREAS

CLEANOUTS IN PIPING 2" OR LESS SHALL HAVE A CLEARANCE OF NOT LESS THAN 18" X 18" IN FRONT OF THE CLEANOUT, CLEANOUTS IN PIPING LARGER THAN 2" INCHES SHALL HAVE A CLEARANCE OF NOT LESS THAN 24" X 24".

CLEANOUTS: CPC TABLE 707.1

PIPE SIZE	CLEANOUT SIZE	THREADS (PER INCH)
1-1/2" - 2"	1-1/2"	11-1/2
2-1/2" - 3"	2-1/2"	8
4" & LARGER	3-1/2"	8

2 CLEANOUT TO GRADE
NTS

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EXP. 6/30/26
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STATE OF CALIFORNIA

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2555 S HALCYON RD, ARROYO GRANDE, CA

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PROJECT MANAGER: DS
DRAWN BY: TO
CHECKED BY: BS
DATE: APRIL 23, 2026
PROJECT NUMBER: 0822-03-ED25
SHEET: P-001

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KEY NOTES

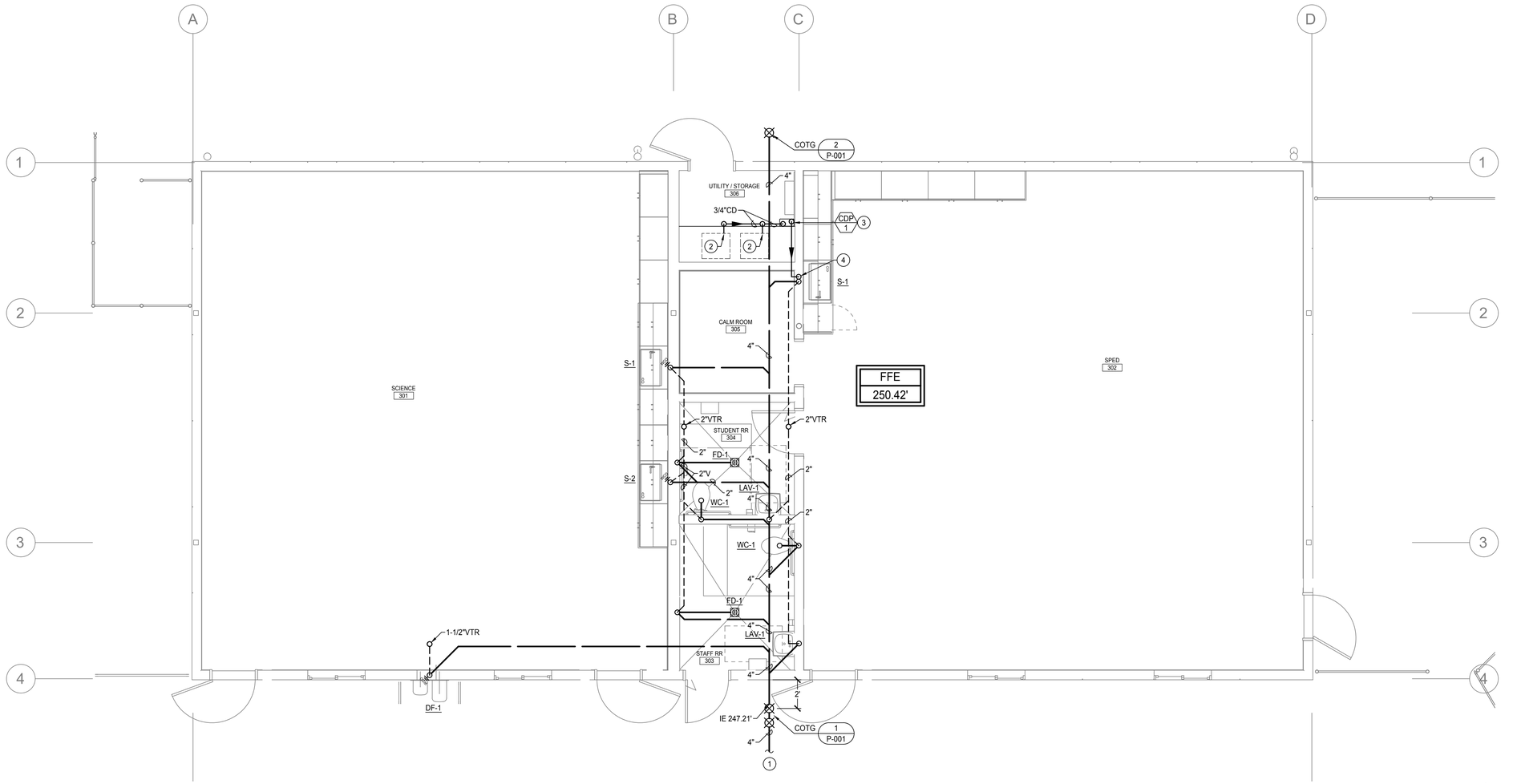
APPLICABLE TO THIS SHEET ONLY

1	REFER TO CIVIL PLANS FOR CONTINUATION.
2	3/4" CONDENSATE CONNECTION TO MECHANICAL EQUIPMENT. SEE DETAIL 5/P-001 FOR MORE INFORMATION.
3	3/4" CONDENSATE CONNECTION TO CONDENSATE PUMP. SEE DETAIL 6/P-001 FOR MORE INFORMATION.
4	3/4" CONDENSATE DOWN IN WALL. TERMINATE TO FIXTURE TAILPIECE SEE DETAIL 7/P-001 FOR MORE INFORMATION.

PLUMBING GENERAL NOTES

APPLICABLE TO THIS SHEET ONLY

1	SEE PLUMBING FIXTURE SCHEDULE FOR BRANCH PIPE SIZING.
2	SLOPE SANITARY WASTE PIPING MIN 2% IN DIRECTION OF FLOW UNLESS OTHERWISE NOTED.
3	SLOPE VENT PIPING UP TOWARDS VTR MIN 1%.
4	SLOPE CONDENSATE PIPING MIN 1% IN DIRECTION OF FLOW.
5	ALL ROOMS WITH FLOOR DRAINAGE MUST HAVE FLOORS SLOPED TOWARD DRAIN. SEE ARCHITECTURAL PLANS FOR REQUIRED SLOPE.
6	PROVIDE CLEANOUTS IN ALL LOCATIONS SHOWN. COORDINATE ALL WALL CLEANOUTS WITH PLUMBING FIXTURES, CASEWORK, AND ARCHITECTURAL ELEVATIONS. SEE DETAIL 2/P-001 FOR SIZING AND CLEARANCES REQUIRED.
7	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.
8	REFER TO ARCHITECTURAL PLANS FOR THE LOCATION OF ALL FIXTURES, INCLUDING BUT NOT LIMITED TO FLOOR SINKS, FLOOR DRAINS, TRENCH DRAINS AND ROOF DRAINS. THE ARCHITECTURAL PLANS SHALL TAKE PRECEDENCE.
9	REFER TO MECHANICAL PLANS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND DUCTWORK. COORDINATE ALL WORK TO FIT IN AVAILABLE SPACE.
10	COORDINATE PIPE ROUTING WITH LOCATION OF ELECTRICAL PANELS AND DATA EQUIPMENT. PIPING SHALL NOT BE ROUTED ABOVE THESE ITEMS.



FLOOR PLAN - WASTE & VENT

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

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M 34068
EXP. 6/30/26
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FLOOR PLAN - WASTE & VENT

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DRAWN BY: TO | CHECKED BY: BS

DATE: 1 APRIL 23, 2026

PROJECT NUMBER: 0822-03-ED25

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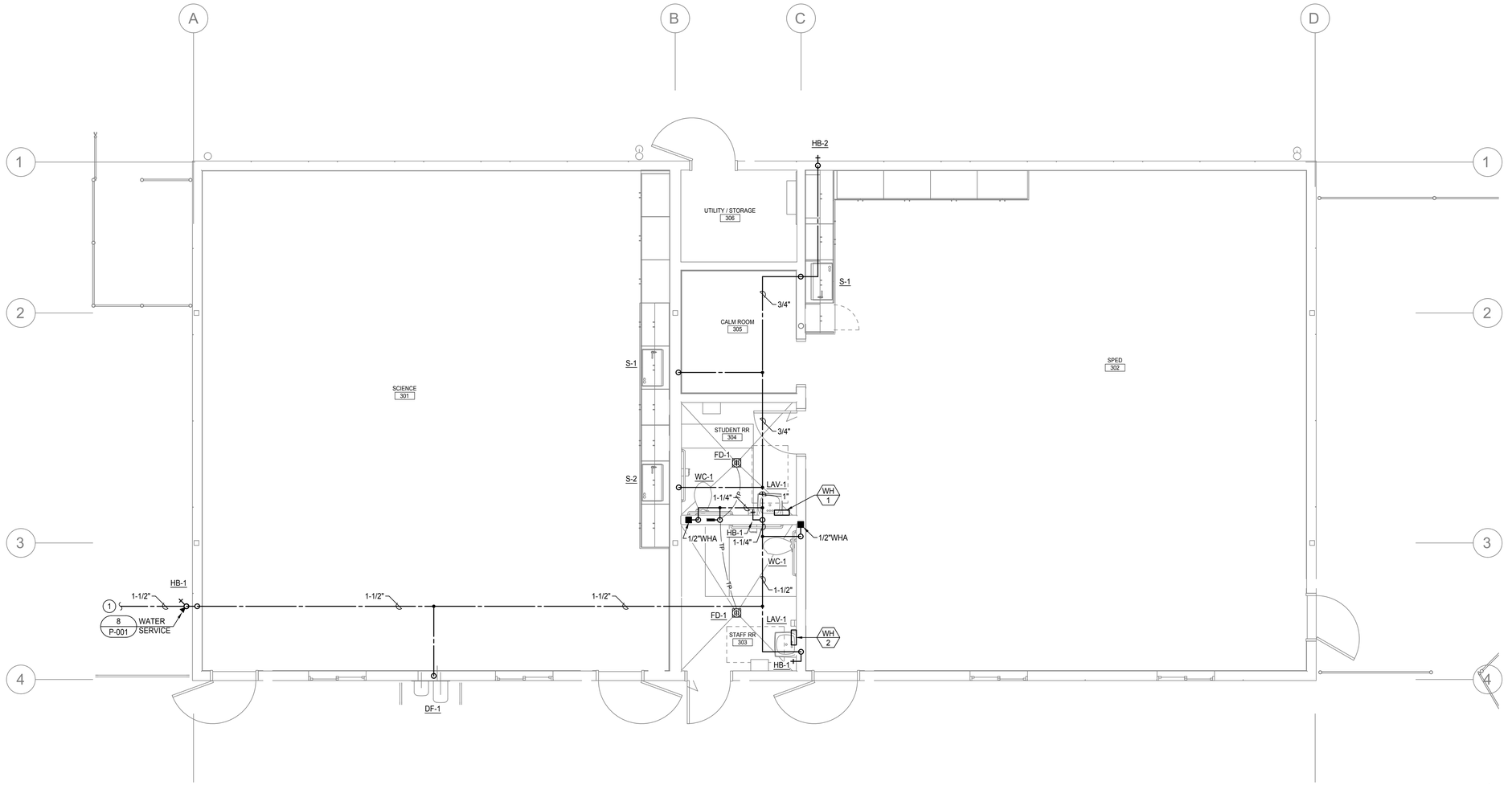
APPLICABLE TO THIS SHEET ONLY

1	REFER TO CIVIL PLANS FOR CONTINUATION.

PLUMBING GENERAL NOTES

APPLICABLE TO THIS SHEET ONLY

1	SEE PLUMBING FIXTURE SCHEDULE FOR BRANCH PIPE SIZING.
2	PROVIDE ANGLE STOPS FOR ALL PLUMBING FIXTURE BRANCH PIPING LINES.
3	REFER TO MECHANICAL PLANS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND DUCTWORK. COORDINATE ALL WORK TO FIT IN AVAILABLE SPACE.
4	COORDINATE PIPE ROUTING WITH LOCATION OF ELECTRICAL PANELS AND DATA EQUIPMENT. PIPING SHALL NOT BE ROUTED ABOVE THESE ITEMS.
5	PROVIDE SUSPENDED PIPE SUPPORT PER DETAIL 10/P-001 (TYP).



FLOOR PLAN - HOT & COLD WATER

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

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REGISTERED PROFESSIONAL ENGINEER
BENJAMIN P. STARRETT
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STATE OF CALIFORNIA

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MESA MS SPED SCIENCE BUILDING

2555 S HALCYON RD, ARROYO GRANDE, CA

FLOOR PLAN - HOT & COLD WATER

NO.	REVISION	DATE

PROJECT MANAGER	DS
DRAWN BY	TO
CHECKED BY	BS
DATE	APRIL 23, 2026
PROJECT NUMBER	0822-03-ED25
SHEET	P-110

C:\Users\cherithy778\appdata\local\temp\AcPublish_17776\BUMUSD Mesa MS Science & SPED Plumbing Plans.dwg CHerithy778E Apr 23,2026-2:29pm

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	(Page 6 of 17)

C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft² /yr)

COMPLIES[2]

Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Space Heating	1.2	3.47	-2.27
Space Cooling	0.51	0.59	-0.08
Indoor Fans	7.73	5.43	2.3
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	3.25	2.92	0.33
Indoor Lighting	2.58	2.58	0
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**15.27**	**14.99**	**0.28 (1.8%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**15.27**	**14.99**	**0.28 (1.8%)**

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

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	(Page 3 of 17)

C1. COMPLIANCE SUMMARY

COMPLIES[3]

	Time Dependent Valuaton (TDV)		Source Energy Use
	Efficiency[1] (kBtu/ft² - yr)	Total[2] (kBtu/ft² - yr)	Total[2] (kBtu/ft² - yr)
Standard Design	182.31	182.31	15.27
Proposed Design	179.19	179.19	14.99
Compliance Margins	**3.12**	**3.12**	**0.28**
	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

PROJECT TEAM LIST

TITLE	NAME	DESK NUMBER	EMAIL ADDRESS
PRINCIPAL IN CHARGE	BRIAN STARRETT	805.634.6159	BSTARRETT@EMCOR.NET
PROJECT MANAGER	DENVER STANGER	805.634.8711	DSTANGER@EMCOR.NET
MECHANICAL DESIGNER	DENVER STANGER	805.634.8711	DSTANGER@EMCOR.NET
PLUMBING DESIGNER	ELI FERMAN	805.634.8818	EFERMAN@EMCOR.NET
ENERGY COMPLIANCE	JORGE BRAVO	805.595.0894	JBRAVO@EMCOR.NET

SHEET INDEX

SHEET NUMBER	SHEET TITLE
T-240	ENERGY COMPLIANCE DOCUMENTATION
T-241	ENERGY COMPLIANCE DOCUMENTATION

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	(Page 7 of 17)

C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Receptacle	4.81	4.81	---
Process	---	---	---
Other Ltg	0.14	0.14	---
Process Motors	0.06	0.03	0.03
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**20.28**	**19.97**	**0.31 (1.5%)**

[1] *Notes: This table is not used for Energy Code Compliance.*

C6. 'ABOVE CODE' QUALIFICATIONS

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

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	(Page 4 of 17)

C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)

COMPLIES[2]

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	9.64	28.46	-18.82
Space Cooling	14.88	15.73	-0.85
Indoor Fans	90.04	62.9	27.14
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	35.64	39.99	-4.35
Indoor Lighting	32.11	32.11	0
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**182.31**	**179.19**	**3.12 (1.7%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**182.31**	**179.19**	**3.12 (1.7%)**

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

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	(Page 1 of 17)
Project Name: LMUSD Mesa MS Science & SPED	Date Prepared: 2025-11-03

A. General Information

1	Project Name	LMUSD Mesa MS Science & SPED		
2	Run Title	Title 24 Analysis		
3	Project Location	2555 S Halcyon Rd		
4	City	Arroyo Grande	5 Standards Version	Compliance 2022
6	Zip code	93420	7 Compliance Software (version)	EnergyPro 9.4
8	Climate Zone	5	9 Building Orientation (deg)	0
10	Building Type(s)	• Nonresidential	11 Weather File	SAN-LUIS-OBISPO_STYP20.epw
12	Project Scope	• New envelope and mechanical	13 Number of Dwelling Units	0
14	Total Conditioned Floor Area in Scope (ft²)	2664	15 Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft²)	159	17 Fuel Type	Natural gas
18	Nonresidential Conditioned Floor Area	2664	19 Total # of Stories (Habitable Above Grade)	1
20	Residential Conditioned Floor Area	0		

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	(Page 8 of 17)

C7. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	0.7	2.2	-1.5	---	---	---
Space Cooling	1.7	1.7	0	---	---	---
Indoor Fans	8.5	5.9	2.6	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	3.7	4.4	-0.7	---	---	---
Indoor Lighting	3.3	3.3	0	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**17.9**	**17.5**	**0.4**	**0**	**0**	**0**
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	**17.9**	**17.5**	**0.4**	**0**	**0**	**0**
Receptacle	6.9	6.9	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	0.2	0.2	0	---	---	---
Process Motors	0.1	0	0.1	---	---	---
ENERGY USE TOTAL	**25.1**	**24.6**	**0.5**	**0**	**0**	**0**

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	(Page 5 of 17)

C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	63.87	63.87	---
Process	---	---	---
Other Ltg	1.75	1.75	---
Process Motors	0.69	0.41	0.28
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**248.62**	**245.22**	**3.4 (1.4%)**

[1] *Notes: This table is not used for Energy Code Compliance.*

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	(Page 2 of 17)

B. PROJECT SUMMARY

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

Building Components Complying via Performance						Building Components Complying Prescriptively	
Envelope (See Table G)	Nonres	Performance	Solar Thermal Water Heating (See Table I3)	☐	Performance	The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).	
	MultiFam	Not Included		☒	Not Included		
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table J)	☐	Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
	MultiFam	Not Included		☒	Not Included	Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTO-E is required
Domestic Hot Water (See Table I)	Nonres	Performance	Covered Process: Laboratory Exhaust (see Table J)	☐	Performance	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
	MultiFam	Not Included		☒	Not Included	**Building Components Complying with Mandatory Measures**	
Lighting (Indoor Conditioned, see Table K)	Nonres	Not Included	Photovoltaics (see Table F)	☐	Performance	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)	
	MultiFam	Not Included		☒	Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Battery (see Table F)	☐	Performance	Commissioning 120.8	NRCC-CXR-E is required
				☒	Not Included	Solar and Battery 110.10	NRCC-SAB-E is required

rrm design group
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LICENSED ARCHITECT — KATHRYN ANNE NICKS — 938079 — 2-28-27 RENEWAL DATE — STATE OF CALIFORNIA

CONSULTANT

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REGISTERED PROFESSIONAL ENGINEER — BRIAN P. STARRETT — M 34068 — EXP. 6/30/26 — MECHANICAL — STATE OF CALIFORNIA

MESA MS SPED SCIENCE BUILDING
2555 S HALCYON RD, ARROYO GRANDE, CA

ENERGY COMPLIANCE DOCUMENTATION

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: DS
DRAWN BY: TO
CHECKED BY: BS
DATE: APRIL 23, 2026
PROJECT NUMBER: 0822-03-ED25
SHEET: T-240

DSA BACK CHECK 2

S:\ENG Projects\LMUSD Mesa MS Science & SPED\Engineering\LMUSD Mesa MS Science & SPED T24.rvng JBravoAngeles7748E Nov 03,2025-3:39pm

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
Chronomite CMI-20L/120-NP2	Electricity	Instantaneous	1	1	2.4	kW	0.98	UEF	N/A	N/A	1	N/A	N/A
Chronomite CMI-20L/120-NP2 2	Electricity	Instantaneous	1	1	2.4	kW	0.98	UEF	N/A	N/A	1	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-E - Envelope (for all buildings)
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems
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/FC-1 and HPC/FC-2.
Mechanical	NRCA-MCH-03-A - Constant Volume Single Zone HVAC
	HPC/FC-1 and HPC/FC-2.

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]
Tubular Skylights	Skylight Fixed window Non-metal	Default 110.6	Manufactured	40	1.47	0.76	1	N
Double Non Metal Clear Window	Vertical fenestration Operable window N/A	NFRC	Site built	64	0.46	0.22	0.32	N
Double Non-Metal Tinted	Vertical fenestration Operable window Non-metal	Default 110.6	Site built	128	0.58	0.53	0.67	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	05 Heating	06 Heating	07 Heating	08 Cooling	09 Cooling	10 Cooling	11	12
			Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	Status[1]
HPC/FC-1	Single Zone Heat Pump (SZHP) Air System	1	52.6	24.6	HSPF2	9	50.89	EER2 SEER2	11.7 17.1	No Economizer	N

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

C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft² / yr)	Proposed Design (kBtu/ft² / yr)	Margin (kBtu/ft² / yr)	Margin Percentage
GROSS EUI[1]	30.34	29.73	0.61	2.01
NET EUI[1]	30.34	29.73	0.61	2.01

[1] Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.

D1. EXCEPTIONAL CONDITIONS

• The project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.
• Project is claiming Exception 2 to Section 140.10(a): No PV system is required where the required PV system size is less than 4 kWdc.
• Project is claiming Exception 2 to Section 140.10(b): No battery storage system is required in buildings with battery storage system requirements with less than 10 kWh rated capacity.
• Project is claiming Exception 3 to Section 140.10(b): No battery storage system required for tenant spaces less than or equal to 5,000 ft2.
• PV/Battery Building Type has been modified from software defaults for one or more spaces. Review project's PV/Battery Building Type(s) with documentation author. Refer to Energy Code section 140.10 for Nonresidential or 170.2(g) for more information.

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]	446	0	0
East-Facing[2]	919	64	6.96
South-Facing[3]	446	0	0

Notes
[1]North-Facing is oriented to within 45 degrees of true north, including 4500'00" east of north (NE), but excluding 4500'00" west of north (NW),
[2]East-Facing is oriented to within 45 degrees of true east, including 4500'00" south of east (SE), but excluding 4500'00" north of east (NE),
[3]South-Facing is oriented to within 45 degrees of true south, including 4500'00" west of south (SW), but excluding 4500'00" east of south (SE),
[4]West-Facing is oriented to within 45 degrees of true west, including 4500'00" north of west (NW), but excluding 4500'00" south of west (SW),

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

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01 Equipment Name	02 Equipment Type	03 Qty	04 Heating	05 Heating	06 Heating	07 Heating	08 Cooling	09 Cooling	10 Cooling	11	12
			Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	Status[1]
HPC/FC-2	Single Zone Heat Pump (SZHP) Air System	1	52.6	24.6	HSPF2	9	50.89	EER2 SEER2	11.7 17.1	No Economizer	N

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

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01 Name or Item Tag	02 Qty	03 Design OA CFM	04 Supply Fan	05 Supply Fan	06 Supply Fan	07 Supply Fan	08 Return / Relief Fan	09 Return / Relief Fan	10 Return / Relief Fan	11 Return / Relief Fan	12 Return / Relief Fan	13 Status[1]
			CFM	Power	Power Units	Control	Fan Type	CFM	Power	Power Units	Control	
HPC/FC-1	1	522.88	1,825	0.76	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N
HPC/FC-2	1	461.32	1,825	0.76	BHP	Constant Vol	N/A	N/A	N/A	N/A	N/A	N

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

H5. GENERAL EXHAUST FAN SUMMARY

01 System ID	02 Zone Name	03 Qty	04 CFM	05 Power	06 Power Units	07 Continuous Operation?	08 Status[1]
Restrooms3-EF	1-Restrooms	1	75	0.01	BHP	No	N
Restrooms64-EF	4-Restrooms	1	75	0.01	BHP	No	N

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

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 (%)
West-Facing[4]	801	128	15.98
Total	**2612**	**192**	**7.35**
Roof	2664	40	1.5

Notes
[1]North-Facing is oriented to within 45 degrees of true north, including 4500'00" east of north (NE), but excluding 4500'00" west of north (NW),
[2]East-Facing is oriented to within 45 degrees of true east, including 4500'00" south of east (SE), but excluding 4500'00" north of east (NE),
[3]South-Facing is oriented to within 45 degrees of true south, including 4500'00" west of south (SW), but excluding 4500'00" east of south (SE),
[4]West-Facing is oriented to within 45 degrees of true west, including 4500'00" north of west (NW), but excluding 4500'00" south of west (SW),

G4. NONRESIDENTIAL AIR BARRIER

01 Building Story Name	02 Air Barrier
Com-Floor 1	No air barrier

Documentation Author's Declaration Statement

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

Documentation Author Name: Jorge Bravo	Documentation Author Signature:
Company: EMCOR Services Mesa Energy Systems	Signature Date: 2025-11-03
Address: 1500 Palm St.	CEA/HERS Certification Identification (if applicable):
City/State/Zip: , San Luis Obispo, CA 93401	Phone: 805-540-3363

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: Kathryn Hicks	Responsible Designer Signature:	
Company: RRM Design Group		
Address: 3765 South Higuera	Date Signed:	
City/State/Zip: San Luis Obispo, CA 93401	License #: C38079	
Phone: 805-543-1794	Title:	Scope:
Responsible Designer Name: Brian Starrett	Responsible Designer Signature:	
Company: 3C Engineering, Inc.		
Address: 1500 Palm St.	Date Signed: 2025-11-03	
City/State/Zip: San Luis Obispo, CA 93401	License #: M34068	
Phone: 805-540-3363	Title:	Scope:

H8. SYSTEM SPECIAL FEATURES

01 System Name	02 Equipment Type	03 Interlocks per 140.4(n)[1]	04 Other Special Features and Controls
HPC/FC-1	Single Zone Heat Pump (SZHP) Air System	No	N/A
HPC/FC-2	Single Zone Heat Pump (SZHP) Air System	No	N/A
WH 121 - 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	03 Mechanical Ventilation	04 Mechanical Ventilation	05 Mechanical Ventilation	06 Conditioned Area (sf)	07 DCV or Occupant Sensor Controls, or both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
1-Restrooms	Exhaust - Toilets, private Education - Classrooms (ages 5-8)	34.77	522.88	75	1450	N/A
2-Classroom (ages 5-8)	Education - Classrooms (ages 5-8)	30.35	461.32	0	1214	N/A

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01 System ID	02 System Type	03 Qty	04 Rated Capacity (kBtu/h)	05 Rated Capacity (kBtu/h)	06 Airflow (cfm)	07 Airflow (cfm)	08 Airflow (cfm)	09 Fan	10 Fan	11 Fan	12 VSD
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	
1-Restrooms-Trm	Uncontrolled	1	N/A	N/A	1,825	N/A	0	N/A	N/A	N/A	☐
2-Classroom (ages 5-8)-Trm	Uncontrolled	1	N/A	N/A	1,825	N/A	0	N/A	N/A	N/A	☐

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	06 Continuous R-Value	07 Units	08 Value	09 Description of Assembly Layers	10 Status[1]
					Interior	Exterior				
2x14 R-48 Batt 1.5 Rigid9	Roof	2,823	Wood	48	N/A	8.8	U-factor	0.0191	Single Ply Roofing - 1/4 in. Plywood - 1/4 in. Cellular polyisocyanurate (unfaced) - 1 1/2 in. R8.8 Plywood - 1/2 in. Composite-1	N
Slab On Grade11	Underground Floor	2,823	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
2x6 16in OC R-21 Batt23	Exterior Wall	2,822	Wood	21	N/A	N/A	U-factor	0.0646	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Composite-2 Gypsum Board - 5/8 in.	N

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

G6A. OPAQUE DOOR SUMMARY (NONRESIDENTIAL)

01 Assembly Name	02 Area (ft²)	03 Overall U-factor	04 Status[1]
Metal Door25	144	0.7	N

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

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MESA MS SPED SCIENCE BUILDING
2555 S HALCYON RD, ARROYO GRANDE, CA

ENERGY COMPLIANCE DOCUMENTATION

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: DS
DRAWN BY: TO
CHECKED BY: BS
DATE: 1 APRIL 23, 2026
PROJECT NUMBER: 0822-03-ED25
SHEET: T-241

DSA BACK CHECK 2

S:\ENG Projects\LMUSD Mesa MS Science & SPED\Engineering\LMUSD Mesa MS Science & SPED T24.dwg, JBravoAngeles778E Nov 03,2025-3:39pm

MECHANICAL ABBREVIATIONS

AC	AIR CONDITION, AIR CONDITIONING, AIR CONDITIONED
ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
AMCA	AIR MOVEMENT AND CONTROL ASSOCIATION
AMB	AMBIENT
AP	ACCESS PANEL
ARCH	ARCHITECT, ARCHITECTURAL
AHRI	AIR CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS
BDD	BACK DRAFT DAMPER
BOD	BASIS OF DESIGN
BEL	BELOW
BHP	BRAKE HORSE POWER
BLDG	BUILDING
BTUH	BRITISH THERMAL UNIT PER HOUR
CA	COMBUSTION AIR
CD	CONDENSATE DRAIN
CFD	CEILING FIRE DAMPER
CFM	CUBIC FEET PER MINUTE
CONT	CONTINUATION
CSD	CEILING SMOKE DAMPER
DB	DRY BULB TEMPERATURE
DN	DOWN
DSA	DIVISION OF THE STATE ARCHITECT
DTR	DOWN THROUGH ROOF
(E)	EXISTING
EA	EXHAUST AIR
EC	EVAPORATIVE COOLER
EDB	ENTERING DRY BULB TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EFF	EFFICIENCY
ELEC	ELECTRICAL
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
FA	FROM ABOVE
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FSC	FAN SPEED CONTROLLER
FSD	FIRE/SMOKE DAMPER
GA	GAGE, GAUGE
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
GYP	GYPSUM
HD	HEAD
HP	HORSE POWER
HVI	HOME VENTILATING INSTITUTE
HZ	HERTZ
IDU	INDOOR UNIT
IWC	INCHES OF WATER COLUMN
KW	KILOWATT
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MBH	1000 BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MFGR	MANUFACTURE OR MANUFACTURER
MIN	MINIMUM
MUA	MAKE-UP AIR
(N)	NEW
NL	NOT LISTED
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
OBD	OPPOSED BLADE DAMPER
ODU	OUTDOOR UNIT
OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
PD	PRESSURE DROP
PSI	POUNDS PER SQUARE INCH
RA	RETURN AIR
REF	REFRIGERANT, REFRIGERATION
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATION
SHT	SHEET
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SOV	SHUT OFF VALVE
SP	STATIC PRESSURE
SS	STAINLESS STEEL
SSE	STEADY STATE EFFICIENCY
SST	SATURATED SUCTION TEMPERATURE
TEMP	TEMPORARY, TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
TXV	THERMAL EXPANSION VALVE
UON	UNLESS OTHERWISE NOTED
UTR	UP TO OR UP THROUGH ROOF
VD	VOLUME DAMPER
VEX	VEHICLE EXHAUST SYSTEM
VRF	VARIABLE REFRIGERANT VOLUME
WB	WET BULB TEMPERATURE
WC	WATER COLUMN
WG	WATER GAUGE
WT	WEIGHT EXPRESSED IN POUNDS

CONTROLS LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
T/CO2 AC-X	T/CO2	COMBINATION THERMOSTAT AND CARBON DIOXIDE SENSOR. ADJACENT TEXT INDICATES CONTROLLED EQUIPMENT
FSC EF-X	FSC	FAN SPEED CONTROLLER. ADJACENT TEXT INDICATES ASSOCIATED FAN

CAL GREEN CODE NONRESIDENTIAL MANDATORY MEASURES

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.

SECTION 702.1 INSTALLER TRAINING

HVAC SYSTEM INSTALLERS SHALL BE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS INCLUDING DUCTS AND EQUIPMENT BY A NATIONALLY OR REGIONALLY RECOGNIZED TRAINING OR CERTIFICATION PROGRAM. UNCERTIFIED PERSONS MAY PERFORM HVAC INSTALLATIONS WHEN UNDER THE DIRECT SUPERVISION AND RESPONSIBILITY OF A PERSON TRAINED AND CERTIFIED TO INSTALL HVAC SYSTEMS OR CONTRACTOR LICENSED TO INSTALL HVAC SYSTEMS. EXAMPLES OF ACCEPTABLE HVAC TRAINING AND CERTIFICATION PROGRAMS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:
1. STATE CERTIFIED APPRENTICESHIP PROGRAMS.
2. PUBLIC UTILITY TRAINING PROGRAMS.
3. TRAINING PROGRAMS SPONSORED BY TRADE, LABOR OR STATE-WIDE ENERGY CONSULTING OR VERIFICATION ORGANIZATIONS.
4. PROGRAMS SPONSORED BY MANUFACTURING ORGANIZATIONS.
5. OTHER PROGRAMS ACCEPTABLE TO THE ENFORCING AGENCY

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
Ø	DIA	DIAMETER
ϕ		ELECTRICAL PHASE
		CEILING MOUNTED SUPPLY OR OUTSIDE AIR DIFFUSER
		CEILING MOUNTED RETURN AIR GRILLE
		CEILING MOUNTED EXHAUST AIR GRILLE
		SIDEWALL MOUNTED SUPPLY AIR DIFFUSER, RETURN AIR GRILLE, LOUVER
	24x12, 24x12 FO	RECTANGULAR, FLAT OVAL DUCT
	24x12L, 12ØL	LINED DUCT
		RECTANGULAR SUPPLY / OA, RETURN, EXHAUST / RELIEF DUCT PASSING THROUGH PLANE OF VIEW
		RECTANGULAR SUPPLY / OA, RETURN, EXHAUST / RELIEF DUCT TURNING DOWN
	12Ø	ROUND DUCT
		ROUND DUCT TURNING DOWN, ROUND DUCT TURNING UP
		90° ELBOW WITH TURNING VAINS
		FLEXIBLE DUCT 60" MAX LENGTH
	FC	FLEXIBLE CONNECTION
	VD	MANUAL VOLUME DAMPER
	CVD	CABLE OPERATED VOLUME DAMPER
		ACCESS CLEARANCE
		ROOF JACK
		ROOF CAP
		CEILING EXHAUST FAN
REF REF		REFRIGERATION LINES
22x30 MIN AP	AP	ACCESS PANEL. SIZE GIVEN INDICATES MINIMUM SIZE REQUIRED

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SHEET INDEX

SHEET NUMBER	SHEET TITLE
M-000	GENERAL
M-001	SCHEDULES
M-002	DETAILS
M-003	DETAILS
M-100	ZONE PLAN
M-200	FLOOR PLAN

CAL GREEN CODE NONRESIDENTIAL MANDATORY MEASURES

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 CGBSC 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. HVAC SYSTEMS AND CONTROLS
2. WATER HEATING 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, THE SYSTEM SHALL BE BALANCED IN ACCORDANCE WITH THE PROCEDURES DEFINED BY THE TESTING ADJUSTING AND BALANCING BUREAU NATIONAL STANDARDS; THE NATIONAL ENVIRONMENTAL BALANCING BUREAU PROCEDURAL STANDARDS; ASSOCIATED AIR BALANCE COUNCIL NATIONAL STANDARDS OR AS APPROVED BY THE BUILDING ENFORCING AGENCY.

SEE SPECIFICATION SECTION 23 00 13 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.

TABLE 5.504.4.1 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
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. FILTERS SHALL BE CLEARLY LABELED BY THE MANUFACTURER INDICATING THE MERV RATING.

EXCEPTIONS:
1. EXISTING MECHANICAL EQUIPMENT.

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 NOT APPLICABLE TO LOW-RISE RESIDENTIAL OCCUPANCIES, 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 2022 CALIFORNIA ENERGY CODE, OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT, AND DIVISION 1, CHAPTER 4 OF CCR, TITLE 8.

5.506.3 CARBON DIOXIDE (CO2) MONITORING IN CLASSROOMS. EACH PUBLIC K-12 SCHOOL CLASSROOM, AS LISTED IN TABLE 120.1-A OF THE CALIFORNIA ENERGY CODE, SHALL BE EQUIPPED WITH A CARBON DIOXIDE MONITOR OR SENSOR THAT MEETS THE FOLLOWING REQUIREMENTS:
1. THE MONITOR OR SENSOR SHALL BE PERMANENTLY AFFIXED IN A TAMPER-PROOF MANNER IN EACH CLASSROOM BETWEEN 3 AND 6 FEET ABOVE THE FLOOR AND AT LEAST 5 FEET AWAY FROM DOORS AND OPERABLE WINDOWS.
2. WHEN THE MONITOR OR SENSOR IS NOT INTEGRAL TO A DIRECT DIGITAL CONTROL (DDC) SYSTEM, THE MONITOR OR SENSOR SHALL DISPLAY THE CARBON DIOXIDE READINGS ON THE DEVICE. WHEN THE SENSOR IS INTEGRAL TO A DDC SYSTEM, THE CARBON DIOXIDE READINGS SHALL BE AVAILABLE TO AND REGULARLY MONITORED BY FACILITY PERSONNEL.
3. A MONITOR SHALL PROVIDE NOTIFICATION THROUGH A VISUAL INDICATOR ON THE MONITOR WHEN THE CARBON DIOXIDE LEVELS IN THE CLASSROOM HAVE EXCEEDED 1,100 PPM. A SENSOR INTEGRAL TO A DDC SYSTEM SHALL PROVIDE NOTIFICATION TO FACILITY PERSONNEL THROUGH A VISUAL AND/OR AUDIBLE INDICATOR WHEN THE CARBON DIOXIDE LEVELS IN THE CLASSROOM HAVE EXCEEDED 1,100 PPM.
4. THE MONITOR OR SENSOR SHALL MEASURE CARBON DIOXIDE LEVELS AT MINIMUM 15-MINUTE INTERVALS AND SHALL MAINTAIN A RECORD OF PREVIOUS CARBON DIOXIDE MEASUREMENTS OF NOT LESS THAN 30 DAYS DURATION.
5. THE MONITOR OR SENSOR USED TO MEASURE CARBON DIOXIDE LEVELS SHALL HAVE THE CAPACITY TO MEASURE CARBON DIOXIDE LEVELS WITH A RANGE OF 400 PPM TO 2000 PPM OR GREATER.
6. THE MONITOR OR SENSOR SHALL BE CERTIFIED BY THE MANUFACTURER TO BE ACCURATE WITHIN 75 PPM AT 1,000 PPM CARBON DIOXIDE CONCENTRATION AND SHALL BE CERTIFIED BY THE MANUFACTURER TO REQUIRE CALIBRATION NO MORE FREQUENTLY THAN ONCE EVERY 5 YEARS.

MECHANICAL GENERAL NOTES

1. 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 (CAL GREEN): PART 11, TITLE 24 CCR

   REPORT DEFICIENCIES WITHIN THIRTY (30) DAYS UPON AUTHORIZATION TO PROCEED.
2. THESE DRAWINGS ARE A GENERAL GRAPHIC PRESENTATION OF THE WORK. DUCTWORK, PIPING, AND EQUIPMENT, AS SHOWN, ARE SCHEMATIC. FABRICATE AND INSTALL BASED ON ACTUAL FIELD MEASUREMENT. COORDINATE WITH OTHER TRADES. ADHERE TO LOCATIONS AS CLOSELY AS POSSIBLE, VARY RUNS OR SHAPE OF DUCTWORK AS REQUIRED TO MEET STRUCTURAL AND OTHER INTERFERENCES AS REQUIRED BY THE ARCHITECT. PROVIDE A COMPLETE SET OF SHOP DRAWINGS REFLECTING ACTUAL DIMENSIONS, ACCESS REQUIREMENTS, AND DETAILS BASED UPON THE ACTUAL EQUIPMENT PROCURED. MAINTAIN AN UP TO DATE SET OF AS-BUILT DRAWINGS AT THE JOB SITE.
3. 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.
4. REVIEW ALL DRAWINGS AND SPECIFICATIONS INCLUDING ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL. ANY QUESTIONS SHALL BE BROUGHT UP, IN WRITING, TO THE ATTENTION OF THE ENGINEER BEFORE THE START OF CONSTRUCTION.
5. 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. CONTRACTORS SHALL PROVIDE ACCESS PANELS WHERE REQUIRED. WHERE VERTICAL SPACE ALLOWS, INSTALL DUCTWORK THAT IS IN CLOSE PROXIMITY TO MECHANICAL, ELECTRICAL OR ANY OTHER ITEM THAT REQUIRES ACCESS HIGH IN THE SPACE FOR EASE OF ACCESS.
6. PRIOR TO ROUGH-IN, COORDINATE THE ORIENTATION OF ELECTRICAL BOXES WITH THE DIMENSIONS OF THE DEVICE OR WALL PLATE THAT WILL BE INSTALLED IN OR ON THE ELECTRICAL BOX TO ENSURE THAT THE DEVICE IS CORRECTLY ORIENTED AND THE BOX IS PROPERLY ALIGNED TO BE COVERED BY THE DEVICE OR WALL PLATE.
7. HANDLE, STORE AND INSTALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
8. BRACE AND SUPPORT PIPES, CONDUIT, AND DUCTWORK IN ACCORDANCE TO SMACNA GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL AND PLUMBING PIPING SYSTEM.
9. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS, REGISTERS, GRILLES, AND ACCESS PANELS.
10. ALL DUCT DIMENSIONS, AS SHOWN ON MECHANICAL DRAWINGS ARE CLEAR INSIDE DIMENSIONS. INCREASE OUTER DUCT DIMENSION AS REQUIRED TO ACCOUNT FOR THE THICKNESS OF INTERNAL LINING WHERE APPLICABLE.
11. INSULATION AND FLEXIBLE DUCT SHALL COMPLY WITH STATE FIRE MARSHALL CRITERIA AND SHALL NOT EXCEED FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50 PER ASTM-84, NFPA-223, AND UL 723.
12. INSULATE PIPING AND DUCTWORK IN ACCORDANCE TO THE GOVERNING CODES.
13. COMMISSION AND START-UP THE MECHANICAL SYSTEMS TO ASSURE A COMPLETE AND OPERATIONAL HVAC SYSTEM IN ACCORDANCE WITH ASHRAE AND NEBB.
14. ALL SQUARE ELBOWS IN SUPPLY DUCTWORK SHALL HAVE TURNING VANES. PROVIDE MANUAL VOLUME DAMPER AT EACH BRANCH DUCT TAKE-OFF SERVING EACH AIR TERMINAL DEVICE. PROVIDE BALANCING DAMPERS FOR EACH MAIN DUCT TAKE-OFF IN ACCORDANCE TO SMACNA IN ORDER TO ASSURE A COMPLETELY BALANCED SYSTEM.
15. CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF A ROOM OR AREA TO CONTROL COOLING, HEATING AND VENTILATING EQUIPMENT SHALL BE MOUNTED AT THE HEIGHTS GIVEN BY SECTION 11B-308.1 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.
16. DUCT SMOKE DETECTORS WHEN NOT PROVIDED PRE-INSTALLED BY THE EQUIPMENT MANUFACTURER SHALL BE INSTALLED IN THE SUPPLY AIR DUCT OF AIR-MOVING SYSTEMS SUPPLYING AIR IN EXCESS OF 2000 CFM. DETECTORS SHALL BE LOCATED BETWEEN THE SUPPLY AIR DUCT CONNECTION AT THE EQUIPMENT AND THE FIRST BRANCH DUCT OR DIFFUSER. WHERE FIRE-DETECTION OR ALARM SYSTEMS ARE PROVIDED FOR THE BUILDING, ALL SMOKE DETECTORS SHALL BE SUPERVISED BY SUCH SYSTEMS IN AN APPROVED MANNER, AND INSTALLED IN ACCORDANCE WITH NFPA 72 AND THE CALIFORNIA BUILDING AND FIRE CODES.
17. ALL EQUIPMENT SHALL BE LABELED AS TO THE SPACE THEY ARE SERVING.
18. HABITABLE SPACE SHALL BE PROVIDED WITH A HEATING SYSTEM CAPABLE OF MAINTAINING A MINIMUM INDOOR TEMPERATURE OF 68°F AT A POINT 3 FEET ABOVE THE FLOOR PER 2022 CBC 1203.
19. 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 CHARACTERISTIC OF BUILDING MATERIALS.
20. ANY MECHANICAL EQUIPMENT THAT PROVIDES POWER TO A ENERGIZED ACCESSORY MUST BE PROVIDED WITH A NAMEPLATE THAT REFLECTS THE ELECTRICAL CHARACTERISTICS OF THE COMPLETE SYSTEM AS INSTALLED WITH THE ENERGIZED ACCESSORY. NO EXCEPTIONS.
21. EQUIPMENT WITH REFRIGERANT ACCESS PORTS LOCATED OUTDOORS IN AN AREA THAT IS NOT SECURED BY WALLS OR FENCING REQUIRING KEY ACCESS SHALL BE PROTECTED FROM WITH LOCKING-TYPE TAMPER RESISTANT CAPS.

MECHANICAL TITLE 24 NOTES

1. HVAC EQUIPMENT AND APPLIANCES SHALL MEET THE LATEST REQUIREMENTS OF THE CA ENERGY EFFICIENCY STANDARDS.
2. HVAC SYSTEMS SHALL MEET THE LATEST CONTROL REQUIREMENTS OF THE CA ENERGY EFFICIENCY STANDARDS.
3. DOORS AND WINDOWS SHALL MEET MINIMUM INFILTRATION REQUIREMENTS OF THE CA ENERGY EFFICIENCY STANDARDS.
4. ALL WORK SHALL BE IN ACCORDANCE WITH CITY AND COUNTY CODES, CALIFORNIA ENERGY CONSERVATION STANDARDS, TITLE - 24, AND ALL OTHER APPLICABLE CODES.
5. ALL PIPING AND DUCTWORK SHALL BE INSULATED CONSISTENT WITH THE LATEST REQUIREMENTS OF THE CA ENERGY EFFICIENCY STANDARDS.

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REGISTERED PROFESSIONAL ENGINE

FAN COIL UNIT SCHEDULE

TAG	MATCHING UNIT TAG	MAKE	MODEL	NOM TONS	REFRIGERANT	FAN						OAI CFM	AUXILIARY ELECTRIC HEAT		ELECTRICAL DATA			AHRI PERFORMANCE								MERV 13 FILTER QUANTITY AND SIZE	OPERATING WEIGHT LBS	REMARKS SEE BELOW	INSTALLATION DETAIL
						HEATING		COOLING		SPEED	ESP							COOLING				HEATING							
						CFM	WATTS	CFM	WATTS				KW	BTUH	POWER V/ϕ/HZ	MCA	MOCP	BTUH	SEER [SEER2]	EER [EER2]	IEER	BTUH AT 47°F	BTUH AT 17°F	COP AT 47°F	HSPF [HSPF2]				
FC 1	HPC 1	TRANE	5TEM6D07	5.0	R-454B	1825	660	1775	665	NORMAL	0.7	530	7.2	24,600	208/1/60	52	60	53,000	[17.1]	[11.7]	NA	50,500	33,400	NA	[9]	NOTE 1	175	1,C1	3/M-002
FC 2	HPC 2	TRANE	5TEM6D07	5.0	R-454B	1825	660	1775	665	NORMAL	0.7	465	7.2	24,600	208/1/60	52	60	53,000	[17.1]	[11.7]	NA	50,500	33,400	NA	[9]	NOTE 1	175	1,C1	3/M-002

GENERAL NOTES APPLICABLE TO ALL UNITS:
A. DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.
B. PROVIDE WITH REQUIRED ACCESSORY TO MAKE THE UNIT SINGLE POINT POWER.
C. BALANCE SYSTEM WITH THE FAN SET IN HEATING MODE.

UNIT SPECIFIC NOTES:
1. PROVIDE WITH (1)24x24x2 GLASFLOSS MERV-13 FILTER. FILTERS ARE LOCATED IN THE RETURN DUCT.

CONTROL NOTES:
C1. PROVIDE WITH PELICAN MODEL TC3 COMBINATION PROGRAMMABLE THERMOSTAT AND CO2 SENSOR.

HEAT PUMP CONDENSING UNIT SCHEDULE

TAG	MATCHING UNIT TAG	MAKE	MODEL	NOM TONS	REFRIGERANT	ELECTRICAL DATA			AHRI PERFORMANCE						PIPING SIZE		OPERATING WEIGHT LBS	REMARKS SEE BELOW	INSTALLATION DETAIL
									COOLING			HEATING							
						POWER V/ϕ/HZ	MCA	MOCP	BTUH	SEER [SEER2]	EER [EER2]	BTUH AT 47°F	BTUH AT 17°F	HSPF [HSPF2]	LIQUID	SUCTION			
HPC 1	FC 1	TRANE	5TWR7060	5.0	R-454B	208-230/1/60	39	60	53,000	[17.1]	[11.7]	50,500	33,400	[9]	NOTE B	NOTE B	235	NA	1/M-002
HPC 2	FC 2	TRANE	5TWR7060	5.0	R-454B	208-230/1/60	39	60	53,000	[17.1]	[11.7]	50,500	33,400	[9]	NOTE B	NOTE B	235	NA	1/M-002

GENERAL NOTES APPLICABLE TO ALL UNITS:
A. DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.
B. SIZE REFRIGERATION LINES PER MANUFACTURERS REQUIREMENTS FOR TOTAL DEVELOPED LINE LENGTH.

EXHAUST FAN SCHEDULE

TAG	MAKE	MODEL	TYPE	DRIVE	PERFORMANCE					MOTOR		ACCESSORIES					OPERATING WEIGHT LBS	REMARKS SEE BELOW	INSTALLATION DETAIL
					CFM	ESP	RPM	OPERATING POWER WATTS [BHP]	SONES	POWER V/ϕ/HZ	NOM HP	BIRD GUARD	BACKDRAFT DAMPER	ROOF CURB	ROOF JACK	WALL CAP			
EF 1	GREENHECK	SP-A90	CEILING	DIRECT	75	0.125	748	9	<0.3	120/1/60	NA	YES	YES	NO	YES	NO	15	C1	5/M-002
EF 2	GREENHECK	SP-A90	CEILING	DIRECT	75	0.125	748	9	<0.3	120/1/60	NA	YES	YES	NO	YES	NO	15	C1	5/M-002

GENERAL NOTES APPLICABLE TO ALL UNITS:
A. DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.
B. FAN SPEED CONTROLLERS SHALL BE PROVIDED FROM THE FACTORY WITH THE SPEED CONTROLLER INTERNALLY MOUNTED WITHIN THE FAN HOUSING AND WIRED.

CONTROL NOTES:
C1. INTERLOCK FAN WITH ROOM LIGHTING CONTROLS SO THAT THE FAN ENERGIZES WHEN THE ROOM LIGHTS ARE TURNED ON. PROVIDE 5 MINUTE TIMED DELAY OFF. INTERLOCK AND TIME DELAY BY ELECTRICAL.

COMMERCIAL GRILLE, REGISTER, DIFFUSER, LOUVER SCHEDULE

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

FD S1 400 12x12
- 400 → CFM
- S1 → DIFFUSER, GRILLE, LOUVER
- 12x12 → NECK SIZE (length x width or length x height) OR LINEAR DIFFUSER LENGTH
- MARK: S = SUPPLY; R = RETURN; E = EXHAUST; T = TRANSFER; L = LOUVER; O = OUTSIDE AIR

CEILING SUPPLY DEFLECTION LEGEND (EXCEPT FOR 4-WAY DEFLECTION, SHADING INDICATES ACTIVE SECTION OF DIFFUSER)

4-WAY | 3-WAY | 2-WAY CORNER | 2-WAY OPPOSITE | 1-WAY

TAG	TYPE	MAKE	MODEL	BORDER TYPE		CONSTRUCTION	FINISH	IMAGE	REMARKS	INSTALLATION DETAIL
				GYP BOARD CEILING OR WALL	LAY-IN CEILING					
S1	CEILING SUPPLY	TITUS	TDC	1	3	STEEL	WHITE		MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND FRAMING CONTRACTOR TO INSURE OPENINGS IN HARD CEILINGS AND WALLS ARE CORRECTLY SIZED TO ACCOMMODATE THE SPECIFIED BORDER TYPE. NO EXCEPTIONS	4/M-002
R1	CEILING OR SIDEWALL RETURN AND EXHAUST	TITUS	350RL	1	3	STEEL	WHITE		MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND FRAMING CONTRACTOR TO INSURE OPENINGS IN HARD CEILINGS AND WALLS ARE CORRECTLY SIZED TO ACCOMMODATE THE SPECIFIED BORDER TYPE. NO EXCEPTIONS	4/M-002
L1	4" WALL LOUVER	GREENHECK	ESJ-401	PROVIDE WITH 1-1/2" FLANGE ACCESSORY		ALUMINUM	PRIMER		PROVIDE WITH BIRD SCREEN WHEN USED FOR OUTSIDE AIR INTAKE OR EXHAUST AIR DISCHARGE. PROVIDE WITH INSECT SCREEN WHEN USED FOR COMBUSTION AIR. PAINT PER ARCHITECTURAL REQUIREMENTS	NA

MECHANICAL, ELECTRICAL AND PLUMBING ANCHORAGE NOTE

1 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 CHAPTER 13, 26 AND 30.

A ALL PERMANENT EQUIPMENT AND COMPONENTS.

B 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.

C 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.

2 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.

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

PIPING, DUCTWORK & ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

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

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

MP X MD X PP X E — OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH THE PROJECT SPECIFIC NOTES AND DETAILS

MP MD PP E — OPTION 2: SHALL COMPLY WITH HCAi (OSHPD) PREAPPROVAL (OPM #) # _____, AS INCLUDED IN THESE DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

NOTE: REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ITEMS RELATED TO THE ELECTRICAL SYSTEM. LOW VOLTAGE CONDUIT FOR MECHANICAL SYSTEM CONTROLS SHALL BE IN ACCORDANCE WITH THE ELECTRICAL REQUIREMENTS.

MECHANICAL SYSTEM ACCEPTANCE TESTING REQUIREMENTS

ACCEPTANCE TESTING RELATED TO THE MECHANICAL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR AND SHALL BE PERFORMED BY AN ACCEPTANCE TESTING TECHNICIAN WHO HAS BEEN CERTIFIED BY A CALIFORNIA ENERGY COMMISSION APPROVED ACCEPTANCE TEST TECHNICIAN CERTIFICATION PROVIDER PROGRAM. THE TEST AND BALANCE CONTRACTOR CAN ALSO BE THE ACCEPTANCE TESTING TECHNICIAN. FOR APPLICABLE ACCEPTANCE TESTS SEE THE ENERGY COMPLIANCE DOCUMENTATION.

ACCEPTANCE TESTING SHALL BE REQUIRED FOR SYSTEMS AND COMPONENTS LISTED ON THE ENERGY COMPLIANCE DOCUMENTS.
ACCEPTANCE TESTING SHALL BE PERFORMED BY A CERTIFIED MECHANICAL ACCEPTANCE TEST TECHNICIAN (CMATT).

S:\ENG Projects\LMUSD Mesa MS Science & SPED\Engineering\LMUSD Mesa MS Science & SPED Mechanical Lead.dwg MQaddoura978E Apr 22,2026-2:48pm

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REGISTERED PROFESSIONAL ENGINEER — STEPHEN P. STARRETT — M 34068 — EXP. 6/30/26 — MECHANICAL — STATE OF CALIFORNIA

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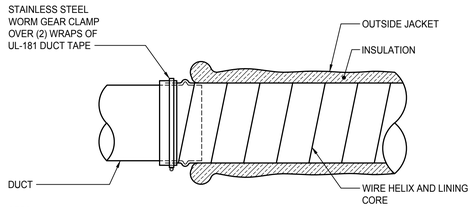
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SCHEDULES

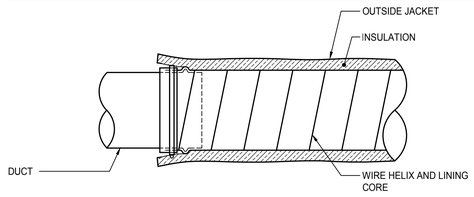
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CHECKED BY: BS
DATE: APRIL 23, 2026
PROJECT NUMBER: 0822-03-ED25
SHEET: M-001

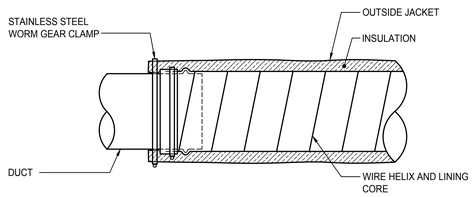
DSA BACK CHECK 2



STEP - 1:
FOLD BACK JACKET AND INSULATION. SLIDE AT LEAST 1" OF CORE OVER DUCT AND PAST THE BEAD. SEAL CORE TO DUCT WITH AT LEAST (2) WRAPS OF UL-181 LISTED DUCT TAPE. SECURE CONNECTION WITH A CLAMP PLACED OVER THE CORE AND TAPE PAST THE BEAD.

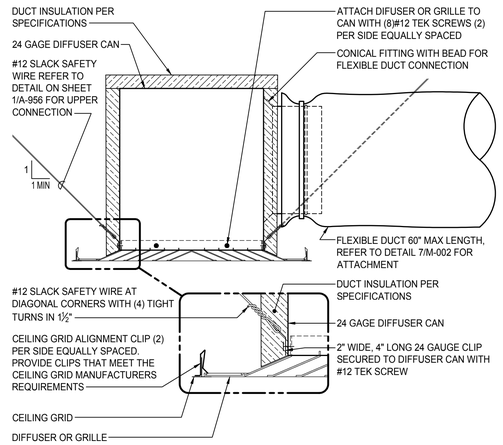


STEP - 2:
PULL THE INSULATION AND JACKET OVER THE TOP OF THE CORE AND THE CLAMP. TUCK THE OUTSIDE JACKET UNDER THE INSULATION.

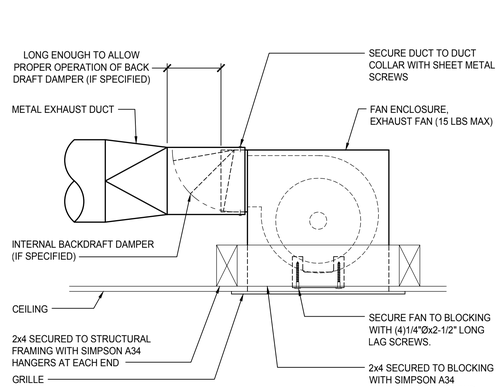


STEP - 3:
INSTALL A CLAMP AROUND THE ENTIRE FLEXIBLE DUCT ASSEMBLY

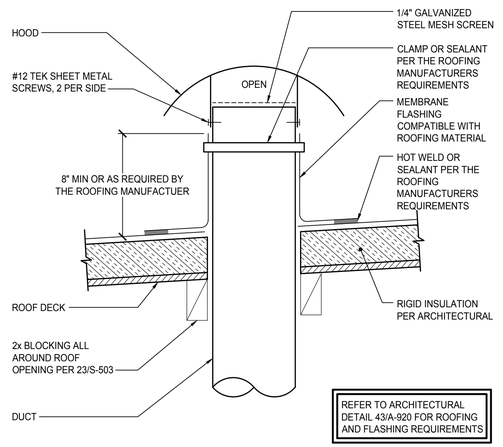
7 FLEXIBLE DUCT CONNECTION
NTS



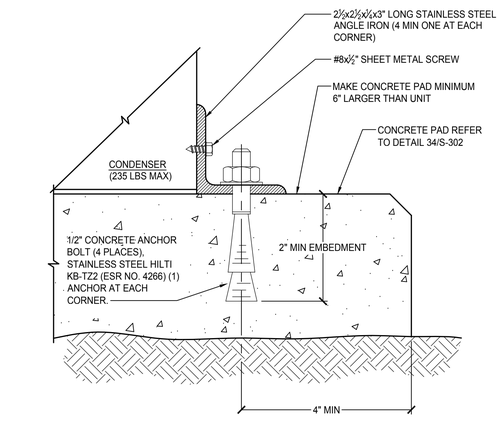
4 DIFFUSER OR GRILLE INSTALLATION (LAY-IN CEILING)
NTS



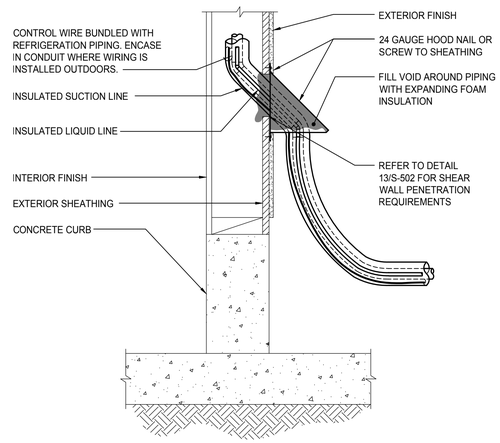
5 CEILING EXHAUST FAN
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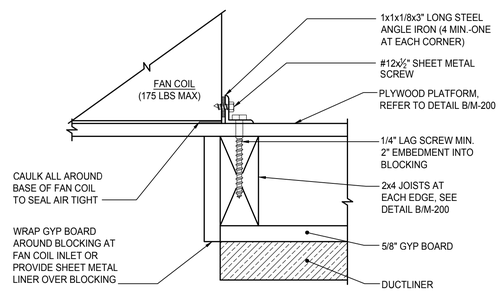
6 ROOF CAP
NTS



1 CONDENSING UNIT ANCHORAGE
NTS



2 REFRIGERATION PIPES THRU EXTERIOR WALL
NTS



3 FAN COIL ANCHORAGE
NTS

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EXP. 6/30/26

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DETAILS

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PROJECT MANAGER
DS

DRAWN BY	CHECKED BY
MQ	BS

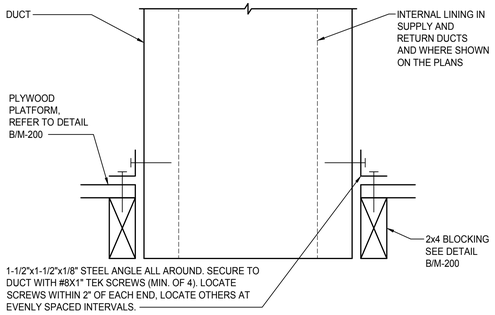
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PROJECT NUMBER
0822-03-ED25

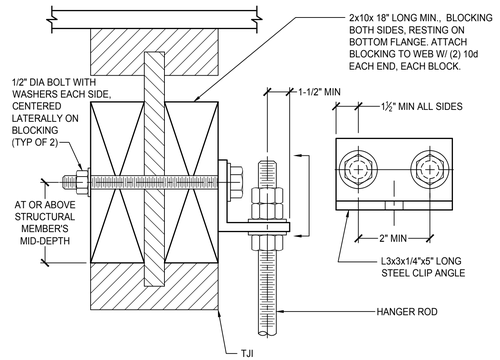
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M-002

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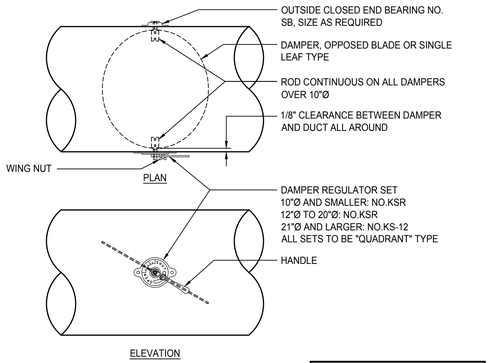
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7 RISER SUPPORT
NTS



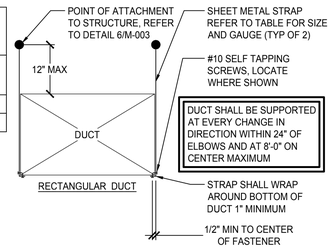
4 CONNECTION TO TJI
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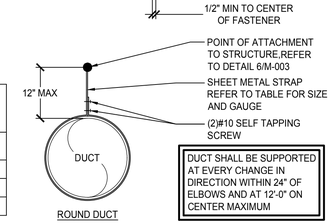
DUCT PENETRATIONS SHALL BE SEALED AIR TIGHT. ALL MODEL NUMBERS LISTED ARE DURO DYNE.

1 ROUND VOLUME DAMPER
NTS

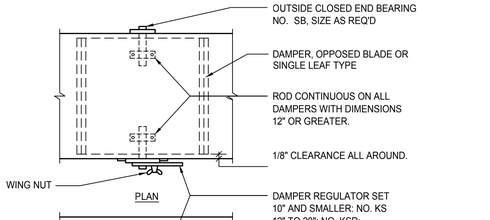
RECTANGULAR DUCT HANGER MINIMUM SIZE 8'-0"OC SPACING	
MAXIMUM HALF OF DUCT PERIMETER	**STRAP**
P/2 = 30"	1" x 20 GA
P/2 = 72"	1" x 20 GA



ROUND DUCT HANGER MINIMUM SIZE 12'-0"OC SPACING	
DUCT DIAMETER	**STRAP**
10Ø OR LESS	1" x 20 GA
11-18Ø	1" x 20 GA
19-24Ø	1" x 20 GA

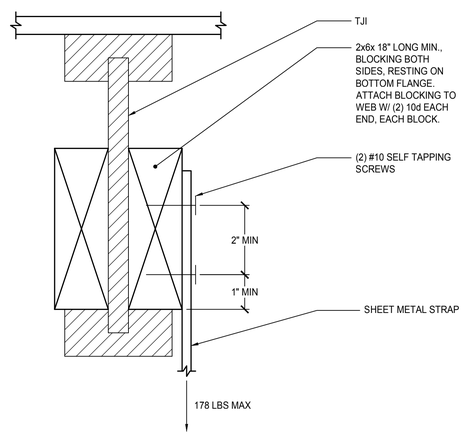


5 CONCEALED DUCT SUPPORT
NTS

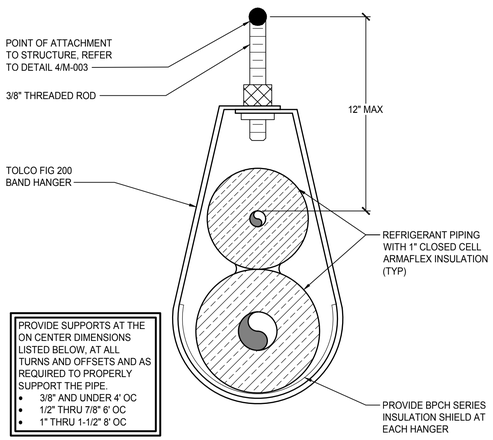


DUCT PENETRATIONS SHALL BE SEALED AIR TIGHT. ALL MODEL NUMBERS LISTED ARE DURO DYNE.

2 RECTANGULAR VOLUME DAMPER
NTS



6 SUPPORT CONNECTION
NTS



3 LINE SET SUPPORT DETAIL
NTS

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CONSULTANT

3C Engineering
An Ekotrope Company
(805) 540-3343
1530 Park St, San Luis Obispo, CA, 93401

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M 34068
EXP. 6/30/26
MECHANICAL
STATE OF CALIFORNIA

MESA MS SPED SCIENCE BUILDING
2555 S HALCYON RD, ARROYO GRANDE, CA

DETAILS

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PROJECT MANAGER
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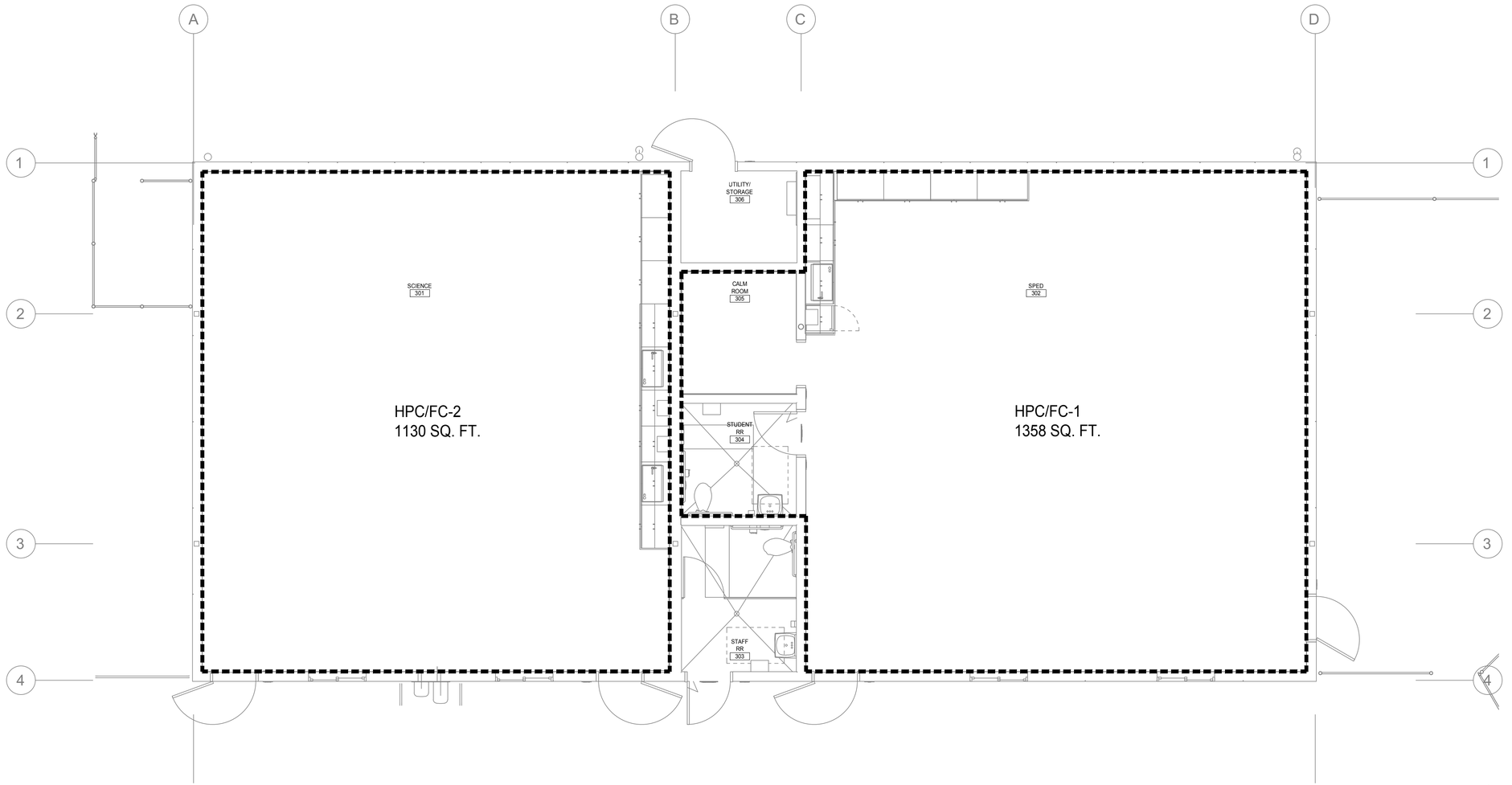
DATE
APRIL 23, 2026

PROJECT NUMBER
0822-03-ED25

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M-003

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ZONE PLAN

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

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ZONE PLAN

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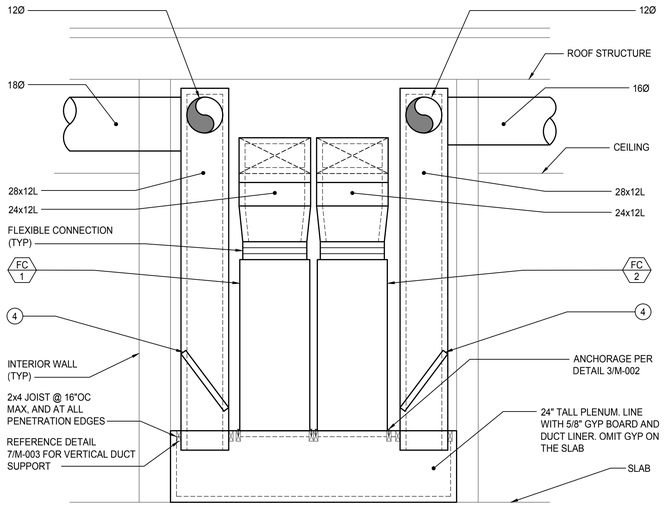
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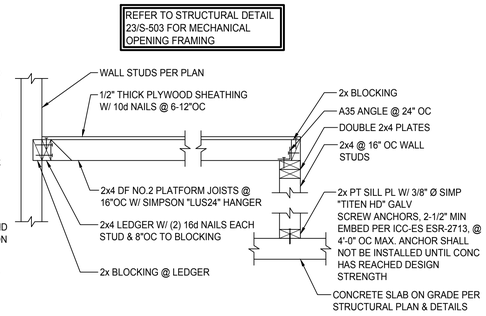
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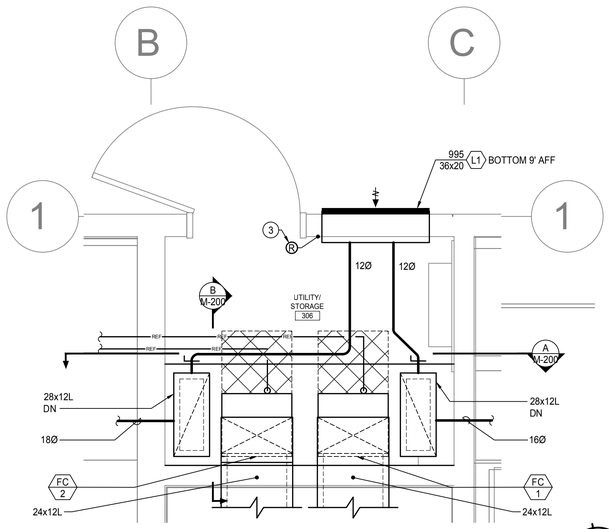
A SECTION VIEW - UTILITY ROOM

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



B PLATFORM FRAMING

SCALE: 1" = 1'-0"



1 ENLARGED FLOOR PLAN

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

KEY NOTES

APPLICABLE TO THIS SHEET ONLY

1	2-WAY CORNER DIFFUSER.
2	REFRIGERATION PIPES THRU EXTERIOR WALL. REFER TO DETAIL 2/M-002.
3	PELICAN MODEL WR900 REPEATER. SECURE HIGH ON WALL WITH SCREW MOUNT ON THE BACK OF THE UNIT. PROVIDE 120V RECEPTACLE WITHIN 48" OF THE DEVICE.
4	(1)24x24x2 MERV-13 FILTER. CONTRACTOR FABRICATED FILTER RACK. PROVIDE GASKETS OR OTHER MEANS TO CLOSE GAPS AROUND FILTERS TO PREVENT BYPASS. FILTER SHALL BE REMOVABLE FROM THE FRONT OF THE DUCT.

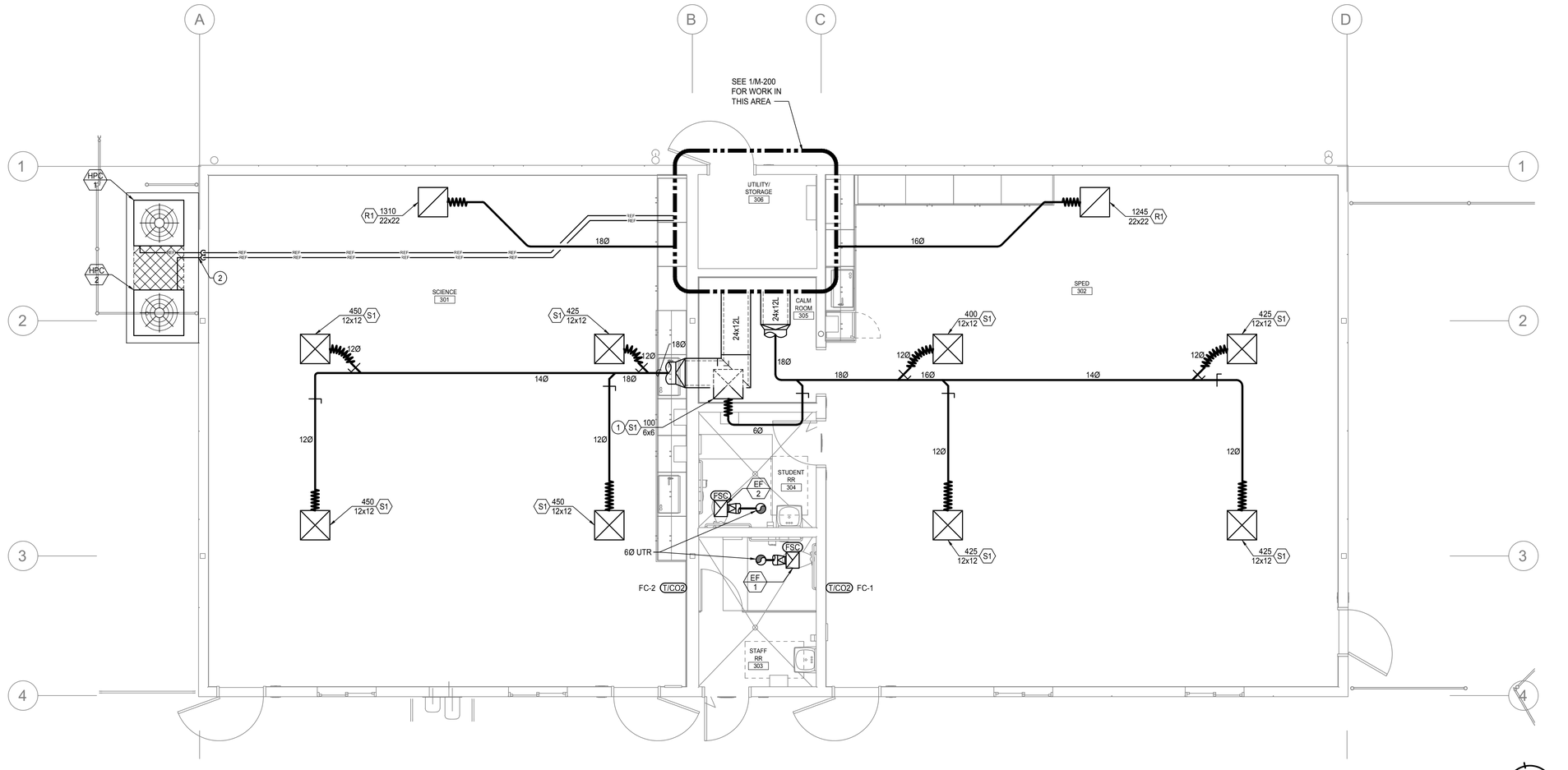
HVAC GENERAL NOTES

APPLICABLE TO THIS SHEET ONLY

1	PROVIDE MANUAL VOLUME DAMPERS IN ALL BRANCH DUCTS TO AIR OUTLETS / INLETS. VOLUME DAMPERS ABOVE HARD LID CEILINGS TO BE CABLE OPERATED UNLESS NOTED OTHERWISE. CABLE TO BE ACCESSED THRU THE FACE OF GRILLE. AFTER BALANCING TUCK CABLE INTO DIFFUSER SO THAT IT IS NOT VISIBLE.
2	REFER TO DETAIL 3/M-003 FOR REFRIGERANT PIPING SUPPORT. LINESET SIZES FOR HPC-1,2 SHALL BE 5/16" FOR LIQUID LINE AND 7/8" FOR VAPOR LINE.

PASSIVE MAKE-UP AIR SCHEDULE

ROOM	DOOR LOUVER MINIMUM FREE AREA FT²	DOOR UNDER CUT
STAFF RR 303	NA	1"
STUDENT RR 304	NA	1"



2 FLOOR PLAN

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

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FLOOR PLAN

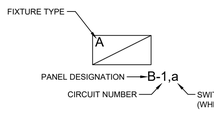
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PROJECT NUMBER 0822-03-ED25
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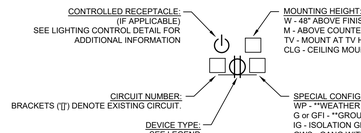
CIRCUITING LEGEND

LIGHTING PLAN



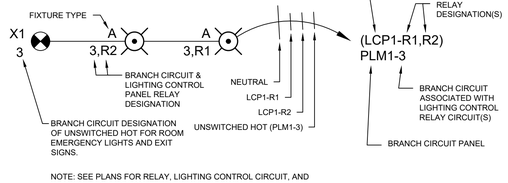
- PROVIDE ALL BRANCH CIRCUIT WIRING FROM FIXTURES TO PANEL(S) AS DESCRIBED BY CIRCUIT NUMBERS SHOWN.
- PROVIDE ALL WIRING BETWEEN FIXTURES AND CONTROL DEVICES AS DESCRIBED IN REFERENCE NOTES AND/OR SHOWN BY SWITCHLEG DESIGNATIONS.
- EXIT AND EMERGENCY LIGHT FIXTURES SHALL BE CONNECTED TO AN UNSWITCHED BRANCH CIRCUIT CONDUCTOR.
- HOME RUN CONDUITS SHALL BE 3/4"C., MAX OF (3) BRANCH CIRCUITS PER CONDUIT.
- PROVIDE ALL BRANCH CIRCUIT WIRING FROM MECH. EQUIPMENT TO PANELS.

POWER PLAN



- PROVIDE ALL BRANCH CIRCUIT WIRING FROM DEVICES TO PANEL(S) PER DESIGNATIONS/CIRCUIT NUMBERS.
- EACH BRANCH CIRCUIT SHALL HAVE A SEPARATE NEUTRAL AS INDICATED ON PANEL SCHEDULES.
- HOME RUN CONDUITS SHALL BE 3/4"C, MAX OF (3) BRANCH CIRCUITS PER CONDUIT.
- INCREASE HOME RUN CONDUIT SIZE TO 1"C FOR (4) BRANCH CIRCUITS OR MORE.
- (**) DENOTES SPECIAL DEVICE/NAMEPLATE REQUIREMENTS.

TYPICAL LIGHTING CONTROL PANEL CIRCUIT CONVENTION



NOTE: SEE PLANS FOR RELAY, LIGHTING CONTROL CIRCUIT, AND BRANCH CIRCUIT QUANTITIES & DESIGNATIONS

NOTE: THE INTENT OF THE DRAWINGS IS TO SHOW FIXTURE / DEVICE LOCATIONS AND PANEL DESIGNATIONS. ALL BRANCH CIRCUIT WIRING, MEETING THE CRITERIA NOTED ABOVE, WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. LIGHTING AND POWER PLANS SHOW AN ABOVE CEILING JUNCTION BOX / HOME RUN WITH CIRCUIT NUMBERS BY FIXTURES / DEVICES. PROVIDE ALL BRANCH CIRCUITING AS REQUIRED FOR A COMPLETE INSTALLATION. DOCUMENT ALL BRANCH CIRCUITING ON AS-BUILT DRAWINGS ACCURATELY REFLECTING THE INSTALLATION.

ABBREVIATIONS

A	AMPERE
AB	AMP BREAKER
ABAND	ABANDONED
ABV	ABOVE
AC	ALTERNATING CURRENT
AC-#	AIR CONDITIONER
ADJ	ADJACENT
AF	AMP FUSE, AMP FRAME
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AIC	AMPERES INTERRUPTING CAPACITY
AI	ALUMINUM
AS	AMP SWITCH RATING
ATS	AUTOMATIC TIME SWITCH
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIBLE/AUDIO VISUAL
AWG	AMERICAN WIRE GAGE
BFG	BELOW FINISH GRADE
BIL	BASIC IMPULSE LEVEL
BLDG	BUILDING
C	CONDUIT
-C-	CATV CONDUIT
CABT	CABINET
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER, CODE BLUE
CBC	CA. BUILDING CODE
CEC	CA. ELECTRICAL CODE
	CA. ENERGY COMMISSION
CF	COMPACT FLUORESCENT
CFC	CALIFORNIA FIRE CODE
CLG	CEILING
CL	CENTER LINE
CKT	CIRCUIT
CNT'R	CONTRACTOR
C.O.	CONDUIT ONLY (W/PULLROPE)
COND	CONDUIT, CONDUCTOR
CR	CRITICAL BRANCH
CSFM	CALIFORNIA SFM
CT	CURRENT TRANSFORMER
Cu	COPPER
CU-#	CONDENSING UNIT
D	DEPTH
DC	DIRECT CURRENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DISC	DISCONNECT
DIST	DISTRIBUTION
DPST	DOUBLE POLE SINGLE THROW
DW	DISHWASHER
EM	EMERGENCY
(E)	EXISTING
EA	EACH
EB	ELECTRONIC BALLAST
EC	ELECTRICAL CONTRACTOR
EC-#	EVAPORATIVE COOLER
EF-#	EXHAUST FAN
EL	EVENING LIGHT
ELEC	ELECTRICAL
EM	EMERG BATTERY BACKUP
	EMERGENCY BALLAST
EMERG	EMERGENCY
EOL	END OF LINE
EQUIPT	EQUIPMENT
ES	ENERGY SAVING
(EXN)	(E) IN (N) LOCATION
(EXR)	(E) TO BE (R)
EXT	EXTERIOR
F	FLUORESCENT
(F)	FUTURE
F-#	FURNACE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FAT	FIRE ALARM TERMINAL
FAU	FORCED AIR UNIT
FBO	FURNISHED BY OTHERS
FC-#	FAN COIL
FLA	FULL LOAD AMPS
FLR	FLOOR
FLUOR	FLUORESCENT
FS	FUSIBLE SWITCH
FVNR	FULL VOLTAGE NON-REVERSING
G	GROUNDING CONDUCTOR
GC	GENERAL CONTRACTOR
GD	GARBAGE DISPOSAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GRS	GALVANIZED RIGID STEEL
GWS	GANG WITH SWITCH
H	HEIGHT, HIGH
HACR	HEATING, AC & REFRIG
HID	HIGH INTENSITY DISCHARGE
HO	HIGH OUTPUT
HOA	HAND-OFF-AUTO
hp	HORSEPOWER
HPF	HIGH POWER FACTOR
HPS	HIGH PRESSURE SODIUM
IC	INTERCOM
ID	IDENTIFICATION
IF	INSIDE FROST
IG	ISOLATED GROUND
J-BOX	JUNCTION BOX
k	QUANTITY 1000
kVA	KILOVOLTAMPS
kW	KILOWATT
LC	LIGHTING CONTACTOR
LPS	LOW PRESSURE SODIUM
LRA	LOCKED ROTOR AMPS
LS	LIFE SAFETY BRANCH
LT	LIGHT
LTG	LIGHTING
LV	LOW VOLTAGE
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CKT AMPS
MCB	MAIN CIRCUIT BREAKER
MCTB	MAIN CATV TERMINAL BOARD
MCTC	MAIN CATV TERMINAL CABINET
MECH	MECHANICAL
MFR	MANUFACTURER
MFS	MAIN FUSIBLE SWITCH
MH	METAL HALIDE
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OCP
MSB	MAIN SWITCHBOARD
MT	MOUNT
MT HT	MOUNTING HEIGHT
MTS	MANUAL TRANSFER SWITCH
MTTB	MAIN TELEPHONE TERMINAL BOARD
MTTC	MAIN TELEPHONE TERMINAL CABINET
MW	MICROWAVE
N	NEUTRAL (GROUNDED CONDUCTOR)
(N)	NEW
N3R	NEMA 3R
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NAT'L ELEC MANUFACTURER'S ASSOC
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NPF	NORMAL POWER FACTOR
NTS	NOT TO SCALE
OC	ON CENTER
OCP	OVERCURRENT PROTECTION
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OSA	OFFICE of the STATE ARCHITECT
OSHPD	OFFICE of STATEWIDE HEALTH PLANNING & DEVELOPMENT
OVLD	OVERLOAD
P	POLE
PA	PUBLIC ADDRESS
PB	PULLBOX
PC	PULL CHAIN
PC	PHOTOCELL
PC	PLUMBING CONTRACTOR
ph	PHASE
PNL	PANEL
POC	POINT OF CONNECTION
-PP-	POWER PRIMARY
-PS-	POWER SECONDARY
PV	PHOTOVOLTAIC
(R)	RELOCATE(D)
RECEPT	RECEPTACLE
REF	REFRIGERATOR
REQ'D	REQUIRED
RLA	RATED LOAD AMPS
RM	ROOM
RMC	RIGID METAL CONDUIT
RMV	REMOVE
RPLC	REPLACE
RS	RAPID START
SC	SIGNAL CABINET
SCC	SHORT CKT CURRENT
SFM	STATE FIRE MARSHAL
SHT	SHEET
SL	SLIMLINE, SWITCH LEG
SPEC	SPECIFICATION
SPST	SINGLE POLE SINGLE THROW
SQ	SQUARE
STR'G	STORAGE
SURF	SURFACE
SVC	SERVICE
SW	SWITCH
T	TRANSFORMER, TERMINAL
-T-	TELEPHONE CONDUIT
(TBR)	TO BE REMOVED
TC	TIME CLOCK
TEL	TELEPHONE
TELCO	TELEPHONE COMPANY
TS	TIME SWITCH
TSO	TIME SWITCH OVERRIDE
TSP	TWISTED SHIELDED PAIR
TTB	TELEPHONE TERMINAL BOARD
TTC	TELEPHONE TERMINAL CABINET
TX	TRANSFORMER
TYP	TYPICAL
TYP SIM	TYPICAL SIMILAR
UC	UNDERCABINET, UNDERCOUNTER
UG	UNDERGROUND
UGPS	UNDERGROUND PULL SECTION
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
USA	UG SVC ALERT 800-642-2444
V	VOLT
VA	VOLT AMPERES
VAC	VOLT ALTERNATING CURRENT
VHO	VERY HIGH OUTPUT
VOLT	VOLTAGE
VR	VANDAL-RESISTANT
W	WIDTH, WATT, WIRE
WH-#	WATER HEATER
WP	WEATHERPROOF (NEMA 3R)
XFMR	TRANSFORMER
+48	INDICATES MOUNTING HEIGHT AFF

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 MANUFACTURERS' RECOMMENDATIONS. VERIFY WITH EQUIPMENT NAMEPLATE BEFORE INSTALLATION.

B. INSTALL SEPARATE NEUTRALS FOR EACH 120V BRANCH CIRCUIT.

C. MOTOR OVERLOAD PROTECTION: WHERE REQUIRED BY CEC ARTICLE 430 PART III 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.

G. ALL 125V AND 250V, 15- AND 20-AMPERE NONLOCKING-TYPE RECEPTACLES WITHIN COMMON AREAS SHALL BE TAMPER-RESISTANT PER CEC 406.12.

LIGHTING PLAN NOTES

A. NIGHT LIGHT "NL" DESIGNATED LUMINAIRES IN INTERIOR LOCATIONS SHALL HAVE THE DRIVER CONTINUOUSLY ENERGIZED. LUMINAIRES IN EXTERIOR LOCATIONS SHALL BE AUTOMATICALLY CONTROLLED TO BE ON FROM DUSK TO DAWN.

B. LIGHTING FIXTURE LOCATIONS SHOWN ARE SCHEMATIC. REFER TO ARCHITECTURAL PLANS (REFLECTED CEILING, ELEVATIONS, ETC.) FOR EXACT LOCATIONS AND MOUNTING HEIGHTS 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.

LIGHTING CONTROL GENERAL NOTES

A. CONTRACTOR TO PROVIDE COMPLETE MANUFACTURERS SHOP DRAWINGS SPECIFIC TO THIS PROJECT FOR THE INTERIOR AND EXTERIOR LIGHTING CONTROL SYSTEM.

B. VERIFY OCCUPANCY SETTING FOR EACH TYPE OF ROOM WITH OWNER AND ADJUST AS DIRECTED BY OWNER.

C. VERIFY EACH RELAY PROGRAMMING WITH OWNER AND PROGRAM EACH AS DIRECTED BY OWNER.

D. PROVIDE OWNER IN SERVICE TRAINING FOR LIGHTING CONTROL SYSTEM.

E. WHERE MULTIPLE CHANNEL CONTROLS HAVE BEEN PROVIDED IN A ROOM OR SPACE, VERIFY FIXTURE ZONING REQUIREMENTS WITH OWNER PRIOR TO PRODUCING SHOP DRAWINGS AND INSTALLATION.

F. FOR CLARIFICATION ALL REQUIRED LOW VOLTAGE CONTROL DEVICES AND CABLING MAY HAVE NOT BEEN SHOWN, CONTRACTOR TO PROVIDE ALL LOW VOLTAGE DEVICES AND CABLING AS REQUIRED TO MAKE CONTROL SYSTEMS FULLY FUNCTIONAL.

CONDUIT SYSTEM NOTES

CONDUIT SYSTEMS USED ON THIS PROJECT SHALL BE AS FOLLOWS

1. PVC SCHEDULE 40 OR 80 - UNDERGROUND/BELOW SLAB WITH GRS ELBOWS AND RISERS TAPE WRAPPED.
2. ELECTRICAL METALLIC CONDUIT (EMT) - ABOVE GRADE/SLAB IN BUILDING CONSTRUCTION AND WHERE EXPOSED ABOVE 8'-0" AFF.
3. GALVANIZED RIGID STEEL (GRS) - WHERE EXPOSED BELOW 8'-0" AFF. AND/OR WHERE SUBJECT TO PHYSICAL DAMAGE.

REFER TO SECTION 260533 & 260500 OF SPECIFICATIONS FOR ADDITIONAL INFORMATION. CONDUITS SHALL BE MINIMUM 1/2" UNLESS OTHERWISE NOTED, 3/4" FOR ALL HOME RUN CONDUITS AND WHERE ROUTED BELOW SLAB OR UNDERGROUND. CONDUIT SIZES, WHERE NOT NOTED ON THE DRAWINGS, SHALL BE SIZED FOR MAXIMUM 40% FILL PER CEC 310.6.
ADDITIONAL CONDUIT REQUIREMENTS.

- PVC UNDERGROUND TO EACH PANEL AND COMM CABINET.
- EMT FOR PHOTOVOLTAIC AND WEATHERHEAD
- GRS FOR ANY EXPOSED AT EXTERIOR WALLS

LUCIA MAR UNIFIED SCHOOL DISTRICT STANDARDS

ALL WORK SHALL COMPLY WITH LUCIA MAR UNIFIED SCHOOL DISTRICT STANDARDS, CONTRACTOR TO CONTACT SCHOOL DISTRICT DIRECTLY, OBTAIN COMPLETE LIST OF DISTRICT STANDARDS, AND ADHERE ACCORDINGLY.

SHEET INDEX

SHEET NO.	SHEET DESCRIPTION
E001	ELECTRICAL GENERAL NOTES, LEGENDS AND ABBREVIATIONS
E002	COMMUNICATION GENERAL NOTES, BASIS OF DESIGN, AND DEVICE LENGEND
E003	ELECTRICAL SINGLE LINE DIAGRAM
E004	ELECTRICAL LUMINAIRE SCHEDULE AND CONTROL DIAGRAMS
E005	ELECTRICAL DETAILS
E006	ELECTRICAL DETAILS
E007	ELECTRICAL DETAILS
E100	ELECTRICAL SITE PLAN
E200	ELECTRICAL POWER & COMMUNICATION PLAN
E201	ELECTRICAL LIGHTING PLAN
E203	FIRE ALARM PLAN
E300	FIRE ALARM RISER DIAGRAM
E301	FIRE ALARM DETAILS
E302	FIRE ALARM CALCULATIONS
E401	COMMUNICATIONS RISER DIAGRAM

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)
   +46" AFF: OUTLET ABOVE COUNTER (MEAUSRED TOP 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 125/250 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
   3. TEMPORARY, MOVABLE, OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

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

   A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

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

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

   PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING 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 PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPM), 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. REFER TO DETAILS ON SHEETS E-005 THROUGH E-007.

LEGEND

NOTE: INTERPRET IN CONTEXT

MISCELLANEOUS

- NUMBERED SHEET NOTES: REFERS TO NOTES ON SAME SHEET AS REFERENCE
- DETAIL REFERENCE: Z = DETAIL DESIGNATION, X = SHEET NUMBER REFERENCE
- MECHANICAL SYSTEMS TAG (REFER TO MECHANICAL SHEETS) Y = UNIT TYPE, X = UNIT NUMBER
- 3103 FEEDER SCHEDULE DESIGNATION (EXAMPLE: 3103 = 310 AMPERE, 600V, 3 CURRENT CARRYING CONDUCTORS, PREFIXES: 'M' INDICATES MEDIUM VOLTAGE, 'CO14' INDICATES CONDUIT ONLY, QUANTITY (1) AND SIZE (4")))

- MOTOR
- THERMOSTAT
- CIRCUIT BREAKER
- FUSIBLE SWITCH
- GROUND
- PHASE
- CLOCK
- CLOCK/SPEAKER COMBINATION
- WALL MOUNTED CLOCK
- PUSHBUTTON
- FLUSHMOUNT PANEL
- SURFACEMOUNT PANEL
- FLUSHMOUNT CABINET
- SURFACEMOUNT CABINET
- DAMPER MOTOR
- HUMIDISTAT
- MAGNETIC CONTACTOR
- COMBINATION STARTER
- SAFETY DISCONNECT
- SECURITY CAMERA

LIGHT FIXTURES

- CEILING SURFACEMOUNT
- WALL SURFACEMOUNT
- PENDANT MOUNT
- RECESSED DOWNLIGHT
- RECESSED WALLWASH
- RECESSED TROFFER
- SURFACE WRAP (WIDE)
- SURFACE WRAP (NARROW)
- FLUOR. STRIP UON
- POLE LIGHT
- BOLLARD
- TANDEM-WIRED LAMPS
- UNDERCABINET LIGHT
- WALL LINEAR
- PENDANT LINEAR FLUOR.
- RECESSED WALLMOUNT
- EXIT LIGHT- WALL
- EXIT LIGHT- CEILING (ARROW INDICATES DIRECTION)
- A LETTER ADJACENT INDICATES FIXTURE TYPE
- LED COVE LIGHT PER FIXTURE SCHEDULE

CONDUIT/WIRE

- NEW
- UNDERGROUND
- NEW POWER HOMERUN (3 HOTS & NEUT SHOWN)
- CONDUIT SEAL
- INDICATES LINE CONTINUES
- CONDUIT STUB (W/MARKER)
- FLEXIBLE CONNECTION

POWER

- DUPLEX RECEPTACLE
- A PROVIDE ARC FAULT BREAKER
- G (GFCI) GROUND FAULT CURRENT INTERRUPTER DEVICE
- M MOUNT ABOVE COUNTER PER ADA. REFER TO ARCH.
- W MOUNT AT +48" MEASURED TO TOP OF BOX.
- WP NEMA 3R COVER (MIDWEST #U010010 OR ENGINEER APPROVED EQUAL)
- 208V RECEPTACLE
- WIU WHILE-IN USE NEMA 3R COVER ((MIDWEST #U010010 OR ENGINEER APPROVED EQUAL)
- FLOOR MOUNTED OUTLET
- "CONTROLLED" DUPLEX RECEPTACLE PER CURRENT CA ENERGY CODE REQUIREMENTS 130-5 "CIRCUIT CONTROLS FOR 120V RECEPTACLES" (LEVITON 5362-S2X, HEAVY DUTY SPEC GRADE; LEVITON 16352-WPX)
- (1)CONTROLLED DUPLEX RECEPTACLE AND (1) DUPLEX RECEPTACLE
- TV COMBINATION POWER AND TELEVISION OUTLET. PROVIDE 3/4"ENT CONDUIT TO "CTB" (ARLINGTON TVBS50-DB OR EQUAL) VERIFY MOUNTING HEIGHT PRIOR TO ROUGH-IN.
- COMBINATION POWER/DATA FLOOR BOX. PROVIDE (1)"CONTROLLED" DUPLEX RECEPTACLE (LEVITON 5362-2PX) PER CURRENT CA ENERGY CODE REQUIREMENTS 130-5 AND (1) UN-CONTROLLED DUPLEX RECEPTACLE.
- GROUND BAR
- CLG CEILING MOUNTED OUTLET
- DUPLEX HALF SWITCHED
- SWITCH RECEPTACLE
- DUPLEX RECEPTACLE. REMOVE BREAK-OFF TAB. TOP OUTLET IS CONTROLLED AND BOTTOM OUTLET IS UN-CONTROLLED. CONTROLLED OUTLET SHALL HAVE A PERMANENT MARKING TO DIFFERENTIATE THEM FROM UNCONTROLLED OUTLET PER CURRENT CA ENERGY CODE REQUIREMENTS. (LEVITON 5362S1X, HEAVY DUTY SPEC GRADE, LEVITON 16352-1PX-DECORA)
- GWS GANG WITH SWITCH
- A 120V COMBINATION SMOKE ALARM AND CARBON MONOXIDE WITH SEALED LITHIUM BATTERY BACK-UP MOUNTED AT CEILING. ALL SMOKE ALARM MUST BE INTERCONNECTED SO THAT ALL DETECTORS SOUND AN ALARM WHEN SMOKE IS DETECTED BY ANY ONE OF THE DETECTORS ANYWHERE. (KIDDE #120105CO OR ENGINEER APPROVED EQUAL). PROVIDE ARC FAULT BRE

BASIS OF DESIGN

TELECOMMUNICATIONS ROOM ('TR' / 'IDF' / 'MDF') ROOM EQUIPMENT

MANUF.	MANUFACTURER'S PART NO. / SERIES NO.	DESCRIPTION
HUBBELL	HQC2424	QUADCAB WALL MOUNTED IDF CABINET. 24H"X24"D
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
LEVITON	49253-LPM	5-RING HORIZONTAL MANAGER 1RU
LEVITON	49253-BCM	5-RING HORIZONTAL MANAGER 2RU
CHATSWORTH	13704-703	VERTICAL CABLING MANAGERS 6"W

CABLING

MANUF.	MANUFACTURER'S PART NO. / SERIES NO.	DESCRIPTION
BERK-TEK	"ADVENTUM"	INDOOR/OUTDOOR, GIGALITE-'AB', LOOSE TUBE 'OS2', 12-STRAND, SINGLE MODE FIBER OPTIC CABLE
BERK-TEK	LANMARK-1000*	CAT6 CABLE (INDOOR, RISER RATED, REFER TO SPECIFICATIONS FOR COLOR SCHEME)
BERK-TEK	LANMARK-1000* OSP	CAT6 CABLE (OSP, OUTDOOR RATED, REFER TO SPECIFICATIONS FOR COLOR SCHEME)
BERK-TEK	RDT UTP CMP	CAT6A CABLE (INDOOR, RISER RATED, REFER TO SPECIFICATIONS FOR COLOR SCHEME)
BERK-TEK	RDT I/O UTP CMP	CAT6A CABLE (OSP, OUTDOOR RATED, REFER TO SPECIFICATIONS FOR COLOR SCHEME)

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
ALGO	8180 G2	IP SPEAKER FOR VOICE PAGING, EMERGENCY ALTERING, & LOUD RINGING (POE)
ALGO	8128	IP STROBE LIGHT FOR TELEPHONE, SAFETY, SECURITY & EMERGENCY ALTERING (POE) - ONLY USED WHEN A ROOM REQUIRES A VISUAL ALERTER.
ALGO	8186	WIDEBAND IP HORN SPEAKER FOR VOICE PAGING, EMERGENCY ALTERTING & LOUD RINGING (POE)

*NOTE: PROVIDE OSP OUTDOOR CABLE WHERE ROUTED OUTDOORS AND BETWEEN BUILDINGS.

TASK RESPONSIBILITY MATRIX

TASK	RESPONSIBLE PARTY
TELECOM - CONDUIT, BACKBOXES, FLOORBOXES, POKE-THRU'S, SLEEVES	CFCI
TELECOM - CONDUIT ID, LABELING, AND PULLSTRINGS	CFCI
TELECOM - EQUIPMENT STRUCTURAL SUPPORTS AND BACKING	CFCI
TELECOM - EQUIPMENT CEILING PREP (ACCESS POINTS, CAMERAS, INTRUSION)	CFCI
POWER TO TELECOM, RACKS, HEAD-END EQUIPMENT	CFCI
TELECOM EQUIPMENT RACKS, PATCH PANELS, CABLE MANAGEMENT, LADDER RACKING/TRAY	CFCI
TELECOM CABLING AND TERMINATION	CFCI
TELECOM FACEPLATES AND DIVIDERS	CFCI
NETWORK EQUIPMENT (SWITCHES, RACK-MOUNT UPS IN IDF'S, SERVERS, STORAGE)	OFOI
MISC. IT EQUIPMENT (TELEPHONES, COMPUTERS, MONITORS)	OFOI
WIRELESS ACCESS POINTS	OFCI
POE SPEAKERS	OFCI
CLOCK DEVICES	CFCI
HDMI CABLES	OFCI

CFCI = 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.

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, 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:

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) CAT6 CABLE (RISER), BLUE IN COLOR (1) CAT6 CABLE (RISER), BLUE IN COLOR (1) CAT6 CABLE (RISER), BLUE IN COLOR (1) CAT6 CABLE (RISER), BLUE IN COLOR	4-PORT, WHITE	STANDARD WORK AREA OUTLET. "n" = NUMBER OF CAT6/6A DATA DROPS. PROVIDE BLANK COVERS FOR UNUSED PORTS. SEE DETAIL 1/E007 AND 3/E007 FOR FACEPLATE NAMING CONVENTIONS.
+10"▽n	EXTRA DEEP 5-SQUARE	SINGLE GANG	1-1/4"	CAT6	2	CAT6 CABLE (RISER) BLUE IN COLOR	2-PORT, WHITE	DATA OUTLET AT 100" 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 4/E007 FOR RECESSED MEDIA LAYOUT.
*▽n	EXTRA DEEP 5-SQUARE	SINGLE GANG	1-1/4"	CAT6	2	(1) CAT6 CABLE (RISER), BLUE IN COLOR (1) CAT6 CABLE (RISER), BLUE IN COLOR	2-PORT, WHITE	ABOVE COUNTER WORK AREA OUTLET. "n" = NUMBER OF CAT6/6A DATA DROPS. PROVIDE BLANK COVERS FOR UNUSED PORTS. SEE DETAIL 1/E007 AND 3/E007 FOR FACEPLATE NAMING CONVENTIONS.
(M)	-	-	1-1/4"	CAT6A	2	CAT6A CABLE (RISER) WHITE IN COLOR	-	INTERIOR WIRELESS ACCESS POINT, DISTRICT PROVIDED (INCLUDING MOUNT) AND CONTRACTOR INSTALLED. MOUNTING PER DETAIL 2/E007 OR 6/E007.
H(M)WP	-	-	1-1/4"	CAT6A	1	CAT6A CABLE (RISER) WHITE IN COLOR	-	EXTERIOR (WP) WALL MOUNTED WIRELESS ACCESS POINT LOCATION, DISTRICT PROVIDED (INCLUDING MOUNT) AND CONTRACTOR INSTALLED. EC SHALL PROVIDE (1) CAT6A CABLE EACH. REFER TO MANUFACTURER'S MOUNTING REQUIREMENTS.
HDMI	4-11/16"	SINGLE GANG	1-1/4"	NONE	-	-	LEVITON BRUSHED	
(S)	-	-	1-1/4"	CAT6	1	CAT6 CABLE (RISER) BLUE 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.
(S)	-	-	1-1/4"	CAT6	1	CAT6 CABLE (RISER) BLUE 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.
(S)WP	-	-	1-1/4"	CAT6	1	CAT6 CABLE (RISER) BLUE 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.
VS	EXTRA DEEP 5-SQUARE	SINGLE GANG	1-1/4"	CAT6	HARD LID = (1) T-BAR = (2)	CAT6 CABLE (RISER) BLUE 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	-	-	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.

1 TELECOMMUNICATION DEVICE CABLE AND ROUGH-IN SCHEDULE
SCALE: NTS

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EXPIRES: 09/30/26
THOMA #25-8026

DSA BACK CHECK 2

MESA MIDDLE SCHOOL SCIENCE AND SPED CLASSROOMS
2555 S HALCYON RD, ARROYO GRANDE, CA

COMMUNICATION GENERAL NOTES, BASIS OF DESIGN, AND DEVICE SCHEDULE

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: JC
DRAWN BY: AV
CHECKED BY: JC
DATE: APRIL 23, 2026
PROJECT NUMBER: 0822-03-ED25
SHEET: E002

Feb 20, 2026 - 4:55pm - jchachigua - K:\ENG\2025\25-8026\25-8026_E001 - E002_GN&A.dwg
5/13/2025 9:44:52 AM
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COPPER FEEDER SCHEDULE

FEEDER NO.	RACEWAY QUANTITY/SIZE	CONDUCTORS
2004	(1) 2"C	(4) #3/0 THWN & (1) #6 GND.
(E) F1	(2) 4"C	(4) #400 KCMIL THWN & (1) #2 GND. EA.
(E) F2	(1) 2"C	(4) #3/0 THWN & (1) #6 GND.
(E) F3	(1) 1-1/2"C	(3) #2 THWN & (1) #8 GND.
(E) F4	(1) 2"C	(3) #2 THWN & (1) #8 GND.
(E) F5	(1) 3"C	(4) #4/0 THWN & (1) #4 GND.
(E) F6	(1) 1-1/2"C	(4) #2 THWN & (1) #8 GND.

WARNING
ARC FLASH HAZARD

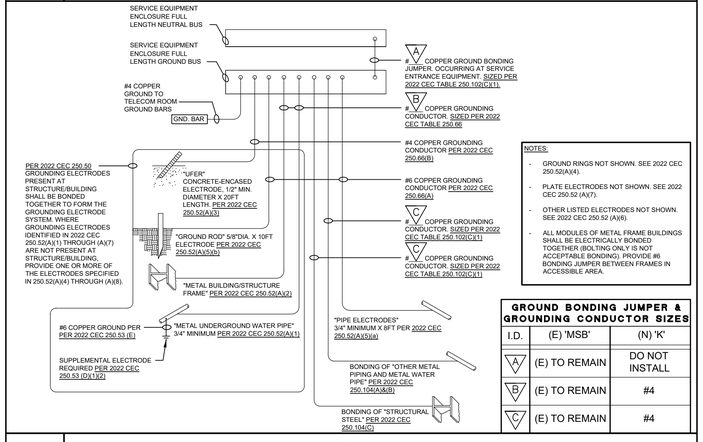
LINE SIDE of MAIN	FLASH PROTECTION BOUNDARY: HAZARD RISK CATEGORY: CLASS 2 INCIDENT ENERGY RANGE: 4 - 8 cal/cm²
LOAD SIDE of MAIN	FLASH PROTECTION BOUNDARY: HAZARD RISK CATEGORY: CLASS 0 INCIDENT ENERGY RANGE: 0 - 2 cal/cm²

PSE TQS#: #####.# Date Issued: April 2004 Study Rev. :0

LOCATION: BUS NAME PROTECTIVE DEVICE: UPSTREAM DEVICE

NOTE:
IN ACCORDANCE WITH CEC 110.16. PROVIDE ARC FLASH PROTECTION WARNING LABELS ON EACH SWITCHBOARD, PANELBOARD, AND TRANSFORMER. LABELS SHALL BE PER ANSI Z535.4 GUIDELINES PER THE ABOVE EXAMPLE.

1 TYPICAL ARC FLASH SIGNAGE

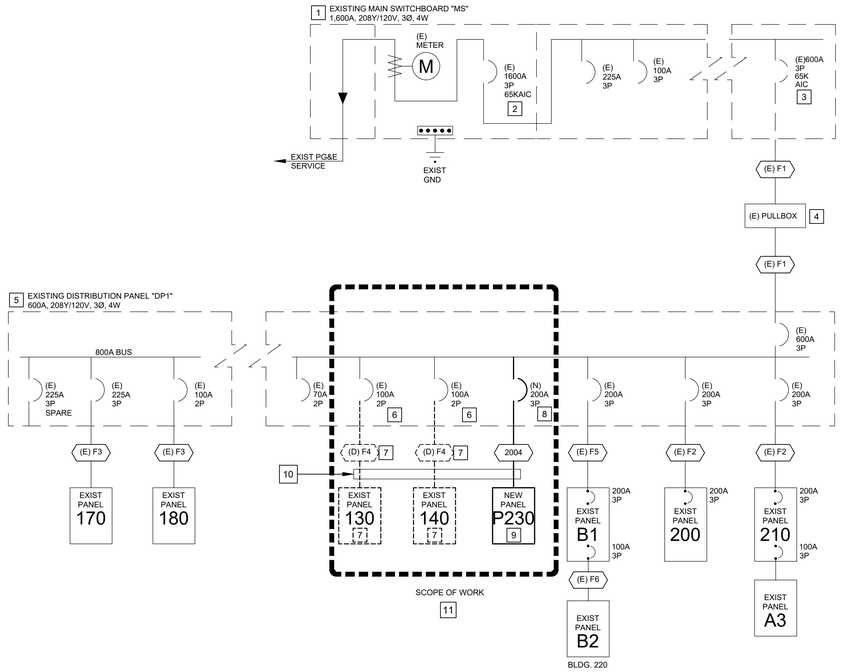


NOTES:
- GROUND RINGS NOT SHOWN. SEE 2022 CEC 250.52(A)(4).
- PLATE ELECTRODES NOT SHOWN. SEE 2022 CEC 250.52 (A)(7).
- OTHER LISTED ELECTRODES NOT SHOWN. SEE 2022 CEC 250.52 (A)(6).
- ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING). PROVIDE #6 BONDING JUMPER BETWEEN FRAMES IN ACCESSIBLE AREA.

GROUND BONDING JUMPER & GROUNDING CONDUCTOR SIZES

I.D.	(E) 'MSB'	(N) 'K'
A	(E) TO REMAIN	DO NOT INSTALL
B	(E) TO REMAIN	#4
C	(E) TO REMAIN	#4

2 TYPICAL GROUND / BOND DETAIL



1 PARTIAL SINGLE LINE DIAGRAM
SCALE: NTS

(N) PANEL P230

BUS RATING: 225A 120/208V, 3PH, 4W
MAIN: 225A MAIN CIRCUIT BREAKER
SPACES: 42 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 14 KAIC PANEL
CONNECTED VA
XXX MOUNT, NEMA 1
LOCATION XXX
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	PHASE A	PHASE B	PHASE C	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
1.49%	75		R	1	301 REC.	20	1	12	720			12	1	20	302 REC	2	R		75	1.49%
1.49%	75		R	3	301 REC.	20	1	12	720	720		12	1	20	302 REC	4	R		75	1.49%
1.49%	75		R	5	301 REC.	20	1	12		720	900	12	1	20	302 REC	6	R		100	2.48%
2.48%	100		R	7	301 REC.	20	1	12	900	420		12	1	20	302 LTG/EF-2	8	C		100	1.16%
1.11%	100		C	9	301 LTG./EF-1	20	1	12		405	900	12	1	20	302 REC	10	R		100	2.48%
0.52%	35		R	11	UTILITY/BREAK-OUT REC	20	1	12			540	12	1	20	MICROWAVE	12	K		25	0.83%
0.82%	55		R	13	STUDENT RR 3.3/304	20	1	12	540		1200	-	1	20	SPARE	14				
0.32%	15		M	15	FC-1	60	2	6		5408		-	1	20	SPARE	16				
0.32%	15		M	17	-	-	-	6			5408	-	1	20	SPARE	18				
0.32%	15		M	19	FC-2	60	2	6	5408			-	2	60	SPARE	20				
0.32%	15		M	21	-	-	-	6		5408		-	-	-	-	22				
1.20%	75		M	23	HPC-1	60	2	6			4056				SPACE	24				
1.20%	75		M	25	"	-	-	6	4056						SPACE	26				
1.20%	75		M	27	HPC-2	60	2	6		4056					SPACE	28				
1.20%	75		M	29	-	-	-	6			4056				SPACE	30				
1.55%	50		M	31	WH-1	20	1	10	1800						SPACE	32				
0.12%	25		M	33	CDP	20	1	12		180					SPACE	34				
1.55%	50		M	35	WH-2	20	1	10			1800				SPACE	36				
1.32%	25		N	37	IDF CABINET	20	1	12	1920						SPACE	38				
0.08%	15		N	39	FACP	20	1	12		200					SPACE	40				
				41	SPACE										SPACE	42				
								CON:	16484	17997	18680									
								25%:	105	101	0									
								SUB:	0	0	0									
								TOT:	16589	18098	18680									
								AMPS	138	151	156									

LOAD (VA) LOAD TYPE LEGEND
7380 R RECEPTACLE
0 L LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
41636 M MECHANICAL
1200 K KITCHEN APPLIANCE
2120 N NON-CONTINUOUS MISC.
825 C CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

SINGLE LINE DIAGRAM REFERENCE NOTES

1. EXISTING MAIN SWBD INSTALLED UNDER DSA A#XX-XXXXXX TO REMAIN.
2. EXISTING MAIN CIRCUIT BREAKER. SCHEDULED TO REMAIN.
3. EXISTING BREAKER FEEDING DISTRIBUTION PANELBOARD 'DP1' SCHEDULED TO REMAIN.
4. EXISTING 3' X 5' PULLBOX W/ DRAIN.
5. EXISTING DISTRIBUTION PANELBOARD 'DP1' INSTALLED UNDER DSA#03-118807, SCHEDULED TO REMAIN.
6. BREAKER SHALL BE REMOVED AND RETURNED TO DISTRICT.
7. PANELBOARD AND FEEDERS ARE SCHEDULED TO BE REMOVED AND RETURN TO DISTRICT.
8. PROVIDE AND INSTALL NEW CIRCUIT BREAKER IN EXISTING EQUIPMENT COMPLETE WITH ALL REQUIRED MOUNTING HARDWARE, NEW CIRCUIT BREAKER AIC TO MATCH EXISTING EQUIPMENT MAIN CIRCUIT BREAKER AIC RATING, CONTRACTOR TO FIELD VERIFY EXISTING EQUIPMENT INFORMATION AND MATCH ACCORDINGLY. RATING AS INDICATED.
9. NEW PANELBOARD 'P230', RATING AS INDICATED ON THE ELECTRICAL SCHEDULES. INSTALL IN UTILITY/STORAGE ROOM AS SHOWN ON PLANS.
10. (E) VAULT SCHEDULED TO REMAIN. REFER TO SITE PLAN FOR VAULT LOCATION.
11. SCOPE OF WORK. AREA THAT WILL BE AFFECTED BY SCOPE OF WORK.

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 [ ] PRODUCT. ENGINEER-APPROVED EQUAL ALTERNATE PRODUCT WILL BE ACCEPTABLE.

D. ALL EQUIPMENT SHALL HAVE ARC FLASH WARNING LABELS PER DETAIL 1/E003.

E. ALL EQUIPMENT SHALL HAVE AN APPROVED TESTING LABORATORY LABEL ATTACHED [UL, CSA, ETC.] (CEC 110-2).

F. REFER TO PANEL SCHEDULES FOR INDIVIDUAL BRANCH CIRCUIT VOLTAGE DROP AND/OR SINGLE LINE DIAGRAM FOR FEEDER VOLTAGE DROP CALCULATIONS.

G. 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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LICENSED ARCHITECT — KATHRYN ANNE NICOL — 038079 — 2-28-27 RENEWAL DATE — STATE OF CALIFORNIA

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REGISTERED PROFESSIONAL ENGINEER — JEFFREY M. THOMA — NO. 20823 — ELECTRICAL — STATE OF CALIFORNIA
EXPIRES: 09/30/26
THOMA #25-8026

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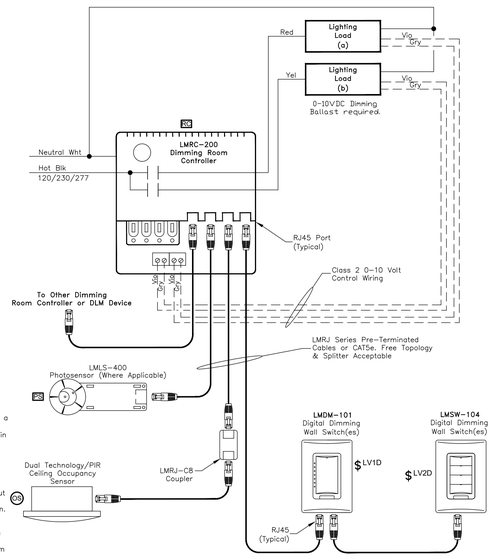
ELECTRICAL SINGLE LINE DIAGRAM

NO.	REVISION	DATE

PROJECT MANAGER: JC
DRAWN BY: AV
CHECKED BY: JC
DATE: APRIL 23, 2026
PROJECT NUMBER: 0822-03-ED25
SHEET: E003

DSA BACK CHECK 2

Feb 20, 2026 - 4:55pm - jchanhagua - K:\ENG\2025\25-8026\25-8026_E003_SLD & ELEC SCHEDULES.dwg
5/13/2025 9:44:52 AM
Autodesk Docs://0822-03-ED25-Mesa Middle School Classroom/0822-03_Mesa Middle School - Science & SPED Classroom.rvt



TYPICAL ROOM CONTROLLER WITH DUAL 0-10V RELAY WIRING DIAGRAM

3 NTS

LIGHTING CONTROLS SYMBOL LEGEND

SYMBOL	PRODUCT # WATTSTOPPER (UON)	DESCRIPTION
LV1D $	LMDM-101	1 CHANNEL ON/OFF TOGGLE WITH DIMMING LOW VOLTAGE; ON / OFF / RAISE / LOWER CONTROL
LV2D $	LMSW-104	2 CHANNEL, 4 BUTTON ON/OFF TOGGLE WITH DIMMING LOW VOLTAGE; ON / OFF / RAISE / LOWER CONTROL
RC	LMRC-212	20 AMP, DUAL RELAY ROOM CONTROLLER WITH 0-10V DIMMING CONTROL
OS	LMDC-100	STANDARD RANGE 360° SENSOR-CEILING MOUNT, LOW VOLTAGE, DUAL TECHNOLOGY OCCUPANCY SENSOR
DZC	LMZC-301	DLM ZONE CONTROLLER PROVIDES TIME OF DAY AND ASTRONOMICAL FUNCTIONS, AS WELL AS EVENT-BASED SCHEDULE ROUTINES, TO REMOTE DLM DEVICES.
PS	LMLS-500	MULTI-ZONE (3 ZONE MAX) SWITCHING AND DIMMING OPEN LOOP PHOTOSENSOR
OS $	DW-100	OCCUPANCY SENSOR WALL SWITCH, SINGLE-BUTTON, LINE VOLTAGE, DUAL TECHNOLOGY, STANDARD RANGE
OS,2P $	DW-200	OCCUPANCY SENSOR WALL SWITCH, TWO-BUTTON/RELAY, LINE VOLTAGE, DUAL TECHNOLOGY, STANDARD RANGE

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.
C. PROVIDE AT LEAST (1) LMCT-100 WIRELESS CONFIGURATION TOOL ON ALL WATTSTOPPER PROJECTS.

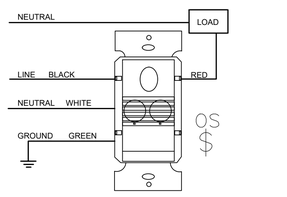
GENERAL NOTES

1. 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.
2. OPEN CABLE INSTALLATION OF CAT 5 IN ACCESSIBLE CEILING SPACE SHALL BE INSTALLED IN AN ORGANIZED WORKMAN LIKE MANNER WITH J-HOOKS AND/OR CABLE SUPPORTS AT 8FT O.C. MINIMUM.
3. 0-10V CONTROL CABLE SHALL BE 600V RATED #18 THWN CU, OR AS PER LIGHTING CONTROL MANUFACTURERS REQUIREMENTS. INSTALLED IN LIGHTING BRANCH CIRCUIT CONDUITS.
4. LOCATE ROOM CONTROLLER ABOVE CEILINGS IN A CONSISTENT MANNER AT EACH ROOM TYPE. TYPICALLY LOCATE THE ROOM CONTROLLERS ABOVE THE LIGHTING CONTROL SWITCH(ES).

SWITCH TYPE	ENGRAVING	ZONES CONTROLLED	BUTTON PROGRAM	FUNCTION	APPLICABLE ROOMS
LV1D $	RAISE	REFER TO FLOOR PLAN	ON/RAISE	PRESS & HOLD FOR RAISE	CLASSROOMS
	LOWER	REFER TO FLOOR PLAN	OFF/LOWER	PRESS & HOLD FOR LOWER	
LMDM-101					

SWITCH TYPE	ENGRAVING	ZONES CONTROLLED	BUTTON PROGRAM	FUNCTION	APPLICABLE ROOMS
LV2D $	RAISE	REFER TO FLOOR PLAN	ON/RAISE	PRESS & HOLD FOR RAISE	CLASSROOMS
	LOWER	REFER TO FLOOR PLAN	OFF/LOWER	PRESS & HOLD FOR LOWER	
	RAISE	REFER TO FLOOR PLAN	ON/RAISE	PRESS & HOLD FOR RAISE	
	LOWER	REFER TO FLOOR PLAN	OFF/LOWER	PRESS & HOLD FOR LOWER	
LMSW-104					

DW 100
LINE VOLTAGE
SINGLE POLE WALL OCC SENSOR
(NOTE: DW 200 SWITCH SIMILAR EXCEPT TWO-POLE WIRING CAPABLE)



20-35 FOOT RADIAL COVERAGE

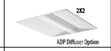
SWITCH ELEVATIONS AND SCHEDULES

4 NTS

LUMINAIRE SCHEDULE

for BRANCH ELEMENTARY SCHOOL KINDERGARTEN CLASSROOM

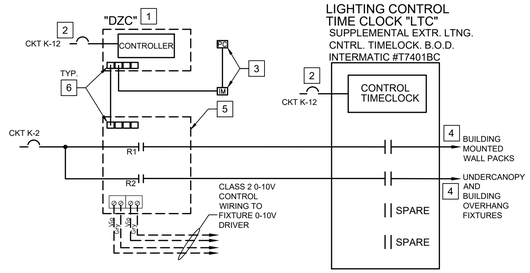
TE# 23-8005

TYPE	ILLUSTRATION	MANUFACTURER	CATALOG NUMBER	VOLTAGE	TOTAL INPUT WATTS (W)	LAMP TYPE	NOMINAL LUMEN OUTPUT (L)	LAMP COLOR TEMP (K)	MOUNTING TYPE	WEIGHT (LBS)	DESCRIPTION	REMARKS
A1B/ A1BEM		LITHONIA LIGHTING	2BLT2-33L-ADP-MVOLT-GZ10-LP840 A1BEM: ADD "E"	MVOLT	27	LED	3385	4000	RECESSED 3/E-402	4.1	2'X2' LED TROFFER RECESSED, STANDARD 0-10V DIMMING.	
A1G/ A1GEM		LITHONIA LIGHTING	2BLT2-40L-ADP-MVOLT-GZ10-LP840 A1BEM: ADD "E"	MVOLT	31	LED	4000	4000	RECESSED 3/E-402	4.1	2'X2' LED TROFFER RECESSED, STANDARD 0-10V DIMMING.	
A2/ A2EM		LITHONIA	2BLT4-60L-ADP-GZ10-LP840 EM: EM10WLCP	120/277	48	LED	6112	4000	RECESSED 3/E-402	17	2'X4' LED TROFFER WITH CURVED, RIBBED DIFFUSER, 0-10V DIMMING TO 10%.	
C1/ C1EM		LITHONIA	STL4-40L-GZ10-LP840 EM: E10WLCP	120/277	35	LED	3979	4000	SURFACE X/EXXX	13	1'X4' LED SURFACE WRAP WITH 0-10V DIMMING TO 10% AND WHITE FINISH.	
C2/ C2EM		LITHONIA	BLWP2-20L-ADP-GZ10-LP835 EM: E10WLCP	120/277	17	LED	1942	3500	SURFACE X/EXXX	5	6"X 2' LED SURFACE WRAP WITH 0-10V DIMMING TO 10% AND WHITE FINISH.	
D1		LITHONIA	LDN4-40/07-L04-AR-LSS-TRW-MVOLT-GZ10-	120/277	9	LED	751	4000	RECESSED X/EXXX	5	4" DIAMETER, LED DOWNLIGHT WITH CLEAR TRIM, SEMI SPECULAR TRIM FINISH, WHITE PAINTED FLANGE AND 0-10V DIMMING TO 10%	
S1/ S1EM		EXO LIGHTING	LNC2-48L-20-4K7-3-UNV-DBT EM: E	120/277	20	LED	2234	4000	SURFACE 6/E004	10	LED WALL PACK WITH TYPE 3 DISTRIBUTION AND DARK BRONZE MATTE TEXTURED FINISH.	CONFIRM FINISH WITH ARCHITECT PRIOR TO ORDERING. B-0, U-0, G-1.
S2/ S2EM		KENALL LIGHTING	MS15FD-PP-MW-25L40K-DV EM: LEL	120/277	30	LED	3258	4000	SURFACE 6/E004	18	LED UNDER CANOPY LUMINAIRE WITH FULL FACE, 0-10V DIMMING TO 1% AND WHITE MATTE FINISH. WET LOCATION LISTED.	CONFIRM FINISH WITH ARCHITECT PRIOR TO ORDERING. B-1 U-3 G-1
S3EM		LITHONIA	LDN6-40/20-L06-AR-LSS-TRW-MVOLT-GZ10-E10WCP	120/277	23	LED	2006	4000	RECESSED X/EXXX	5	6" DIAMETER, LED DOWNLIGHT WITH CLEAR TRIM, SEMI SPECULAR TRIM FINISH, WHITE PAINTED FLANGE AND 0-10V DIMMING TO 10%	CONFIRM FINISH WITH ARCHITECT PRIOR TO ORDERING.
X1EM		LITHONIA	LE-S-W-1-R-EL N	120/277	2	LED	N/A	N/A	SURFACE 6/E004	5	LED EMERGENCY EXIT SIGN, 90-MINUTE BATTERY OPERATION (CA T20 COMPLAINT), WHITE HOUSING, SINGLE SIDED WHITE FACE, RED LETTERS.	MOUNT PER MANUFACTURER'S RECOMMENDATIONS

NOTES
- LUMINAIRE SUPPLIED VOLTAGE TO BE VERIFIED BY ELECTRICAL CONTRACTOR.
- WHERE NOT SPECIFIED; FINISHES TO BE VERIFIED WITH ARCHITECT.
- FOR FIXTURE TYPES ENDING IN "EM": PROVIDE WITH 90 MINUTE EMERGENCY BATTERY PACK.

LUMINAIRE SCHEDULE

1 NTS



DIGITAL ZONE CONTROLLER SCHEULE

"DZC" WATTSTOPPER LMZC-301

LOCATED: ROOM #22
CONTROL POWER CIRCUIT: K-12

CONNECT TO EXTERIOR LIGHTING ROOM CONTROLLER (LMRC-212) VIA WATTSTOPPER LMRJ CABLE

NEMA 1 ENCLOSURE
FLUSH _
SURFACE X

RELAY NO.	INPUT VA	CIRCUIT NO.	LOAD DESCRIPTION	SCHEDULED CONTROL DESCRIPTION	NOTES
R1	120	K-2	EXTERIOR BUILDING WALLPACK LTG	DUSK ON / TIMECLOCK OFF	1,4,5
R2	325	K-2	EXTERIOR UNDERCANOPY LTG	DUSK ON / TIMECLOCK OFF	1,4,5

NOTES:
1. PROGRAM RELAY FOR DUSK 'ON' WITH PROGRAMMED 'OFF' PER OWNER TIME SCHEDULE.
2. PROGRAM RELAY FOR DUSK TO DAWN (NIGHT LIGHT) OPERATION.
3. PROGRAM RELAY TO DIM TO 50% WHEN UNOCCUPIED AND 100% WHEN OCCUPIED.
4. EXTEND 0-10V WIRES TO FIXTURE(S) FOR DIMMING CONTROL CAPABILITY.
5. INCLUDE AN UNSWITCHED HOT LEG OF LIGHTING CIRCUIT TO PROVIDE CONTINUOUS CHARGING OF EMERGENCY BATTERY PACKS OR TO SERVE OTHER ROOMS WITH LOCAL CONTROLS.

* INCLUDE EXTERIOR PHOTOCELL (WATTSTOPPER LMPO-200 WITH CONNECTION TO WATTSTOPPER PHOTOCELL INPUT MODULE LMIO-301) INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATION TO CONTROL DUSK TO DAWN, AND DUSK TO TIME CLOCK OFF OPERATIONS.
* PROVIDE LOW VOLTAGE OVERRIDE SWITCH ADJACENT TO PANEL WITH WEATHER PROOF LOCKABLE COVER. PROGRAM SWITCH FOR 2-HOUR OVERRIDE OF ALL EXTERIOR LIGHTING RELAYS. LABEL SWITCH "OVERRIDE".

EXTERIOR LIGHTING CONTROL DIAGRAM

2 NTS

☐ REFERENCE NOTES

1. DIGITAL ZONE CONTROLLER "DZC" WITH INTEGRAL ASTRONOMICAL TIME CLOCK PER CALIFORNIA ENERGY CODE (CEnC 130.2(c)1 & 2). PROGRAM PER OWNER AND TITLE 24 REQUIREMENTS. SEE PANEL SCHEDULE ON THIS SHEET.
2. DEDICATED CIRCUIT TO CONTROLLER(S) POWER SUPPLY.
3. PROVIDE NEW PHOTOCELL (WATTSTOPPER LMPO-200) AT ROOF. (ORIENT WINDOW NORTH). PROVIDE 1/2"C DOWN TO PHOTOCELL INPUT MODULE (LMIO-301) WITH (2)#18 AWG, THEN PROVIDE LMRJ CABLE CONNECTION BETWEEN PHOTOCELL INPUT MODULE AND DIGITAL ZONE CONTROLLER "DZC".
4. TO LIGHTING FIXTURES, SEE SITE PLAN AND FLOOR PLANS.
5. DEDICATED EXTERIOR LIGHTING ROOM CONTROLLER (WATTSTOPPER LMRC-212, EQUIPPED WITH TWO 0-10V RELAYS FOR SWITCHING AND DIMMING CAPABILITY TO SATISFY CEnC 130.2(c)2 A & B). CONNECT TO WATTSTOPPER DLM ZONE CONTROLLER (LMZC-301; LOCATION PER LIGHTING FLOOR PLAN) TO ENABLE SCHEDULED EVENTS AND ASTRONOMICAL TIME CLOCK CONTROL OF EXTERIOR LUMINAIRES. ROOM CONTROLLER REQUIRES CONSTANT HOT INPUT.
6. RJ45 PORTS FOR CONNECTION OF DEVICES TO WATTSTOPPER DLM NETWORK VIA LMRJ SERIES PRE-TERMINATED CABLES OR CAT5E.

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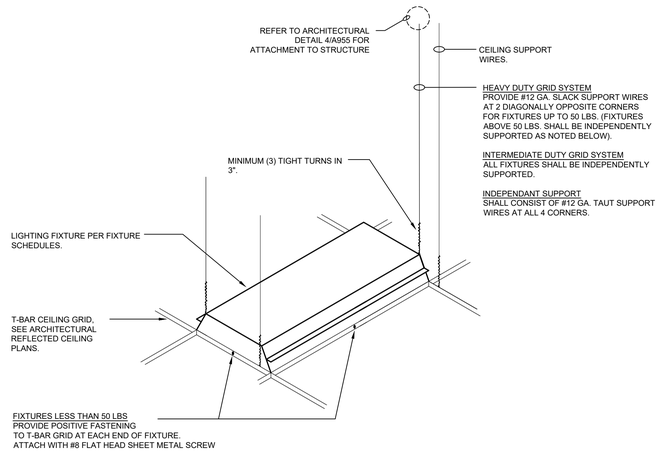
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ELECTRICAL LUMINAIRE SCHEDULE AND CONTROL DIAGRAMS

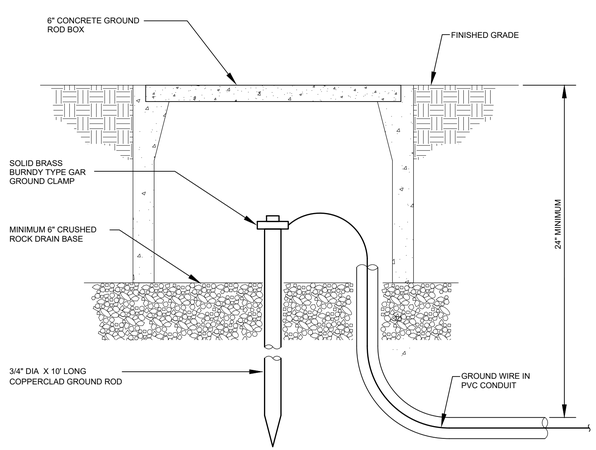
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DRAWN BY: AV
CHECKED BY: JC
DATE: APRIL 23, 2026
PROJECT NUMBER: 0822-03-ED25
SHEET: E004

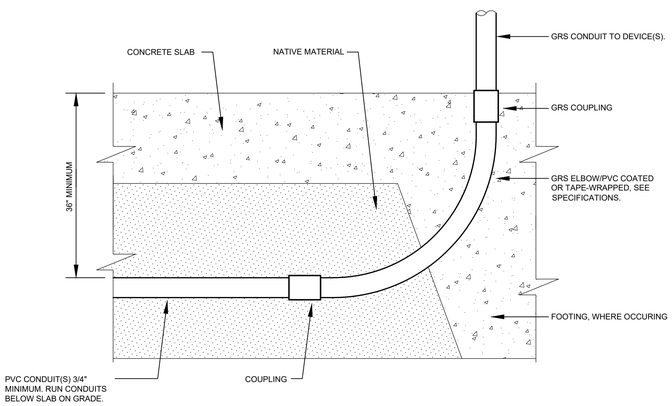
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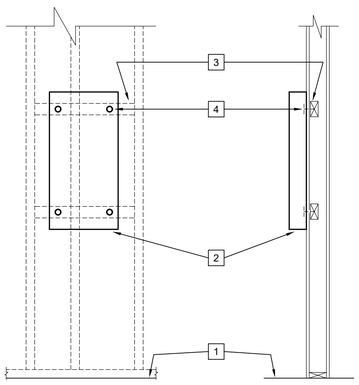
7 LAY-IN TROFFER FIXTURE MOUNTING DETAIL
SCALE: NTS



4 GROUND ROD/GROUND WELL
SCALE:



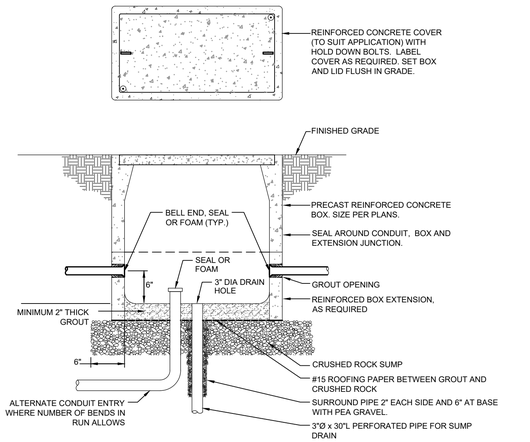
1 CONDUIT RISER DETAIL
SCALE:



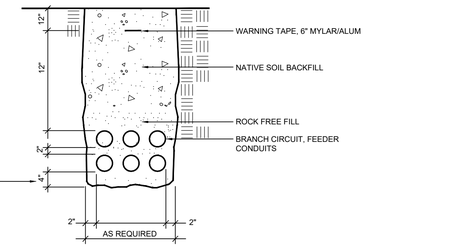
☐ REFERENCE NOTES

1. FINISHED FLOOR
2. EQUIPMENT. MAXIMUM WEIGHT - 150 LBS
3. PROVIDE BLOCKING WHERE VERTICAL STUD IS NOT AVAILABLE FOR ATTACHMENT. REFER TO STRUCTURAL DETAIL 53/S-502.
4. ATTACH WITH #8x1-1/2" WOOD SCREWS AND 1/2" DIAMETER WASHER, (1) EACH CORNER.

8 INVERTER MOUNTING DETAIL
SCALE: MAXIMUM WEIGHT - 150 LBS



5 TYPICAL PULL BOX, SMALLER THAN 24" X 36"
SCALE:



2 TYPICAL CONDUIT IN TRENCH DETAIL
SCALE:

PORTABLE SYSTEM KIT

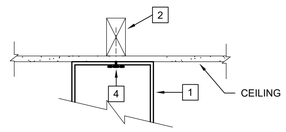
TWO SETS OF ASSISTED LISTENING SYSTEMS SHALL BE STORED IN A DESIGNATED AREA (COORDINATE WITH DISTRICT) AND SHARED AS NECESSARY TO COMPLY WITH EACH CLASSROOM AREA REQUIRING ASSISTED LISTENING SYSTEMS (ALS). PORTABLE SYSTEM SHALL BE MANUFACTURED BY WILLIAMS SOUND:

(2) FM ADA KIT 37 - EACH KIT CONSISTS OF THE FOLLOWING COMPONENTS:

A. (1) PPA T46 TRANSMITTER
B. (4) PPA R37 RECEIVERS
C. (4) HED 027 HEADPHONES
D. (1) MIC 090 LAPEL MIC
E. (1) MIC 049 DESKTOP CONFERENCE MIC
F. (1) CCS 029 CARRY CASE
G. (2) NKL 001 NECKLOOPS (HEARING AID COMPATIBLE)
H. (5) BAT 001-2 AA ALKALINE BATTERIES
I. IDP 008 ADA WALL PLAQUE (<-- EC SHALL COORDINATE TO WALL-MOUNT ON EACH ROOM)

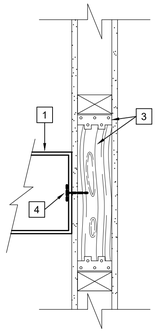
REFER TO ARCHITECTURAL SHEETS FOR ALS SIGNAGE REQUIREMENTS.

9 ASSISTED LISTENING COMPONENT LISTS
SCALE: NTS



☐ REFERENCE NOTES

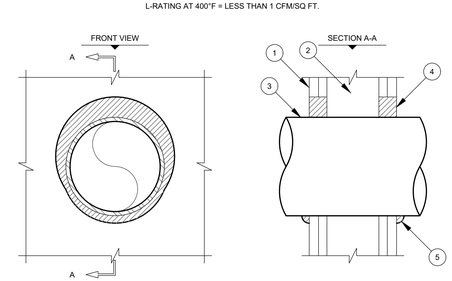
1. SMALL SURFACE MOUNTED LIGHT FIXTURE.
2. FRAMING ABOVE OR BLOCKING WITH A35 CLIP AT EACH END.
3. PROVIDE 3x6 BLOCKING WITH A35 CLIP AT EACH END WHERE VERTICAL STUD IS NOT AVAILABLE FOR ATTACHMENT.
4. ATTACH WITH #8x1-1/2" WOOD SCREW AND 1/2" DIAMETER WASHER. (2) REQUIRED PER FIXTURE.



6 WALL/CEILING FIXTURE MOUNTING DETAIL
SCALE: MAXIMUM WEIGHT - 20 LBS

F-RATING = 1-HR. OR 2-HR.
T-RATING = 0-HR.
L-RATING AT AMBIENT = LESS THAN 1 CFM/SQ FT.
L-RATING AT 400°F = LESS THAN 1 CFM/SQ FT.

1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300, U400, OR V400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. (NOT SHOWN). WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 30" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 30" NOMINAL DIAMETER CAST IRON OR DUCTILE IRON PIPE.
   C. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE OR TUBING.
   D. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.
   E. MAXIMUM 4" NOMINAL DIAMETER EMT.
4. HILTI CP 606 FLEXIBLE FIRESTOP SEALANT:
   A. MINIMUM 5/8" DEPTH OF SEALANT FOR A 1-HR. FIRE-RATING.
   B. MINIMUM 1-1/4" DEPTH OF SEALANT FOR A 2-HR. FIRE-RATING.
5. MINIMUM 1/2" BEAD HILTI CP 606 FLEXIBLE FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.



NOTES:
1. MAXIMUM DIAMETER OF OPENING = 8".
2. ANNULAR SPACE IN 1-HR. WALLS = MINIMUM 0", MAXIMUM 1".
3. ANNULAR SPACE IN 2-HR. WALLS = MINIMUM 0", MAXIMUM 2".
4. PENETRANT MAY BE INSTALLED AT AN ANGLE NOT GREATER THAN 45° FROM PERPENDICULAR.

3 METAL PIPE THROUGH 1-HR OR 2-HR GYPSUM WALL
SCALE:

DSA BACK CHECK 2

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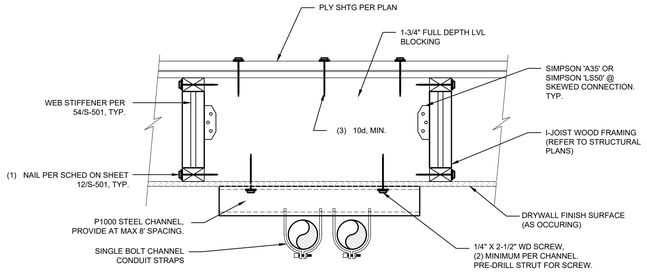
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ELECTRICAL DETAILS

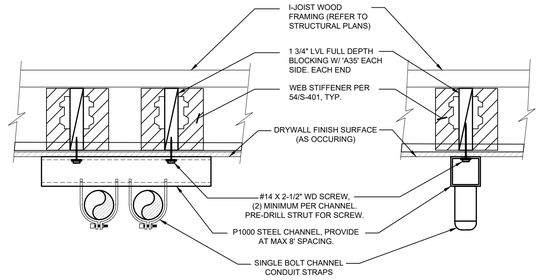
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CONDUIT PARALLEL TO FRAMING

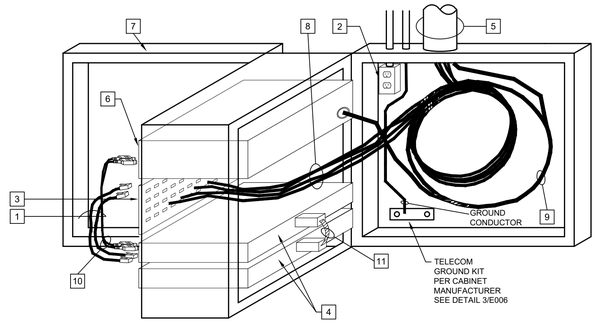


CONDUIT PERPENDICULAR TO FRAMING

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.

6 TYPICAL CONDUIT ANCHORAGE DETAILS

SCALE: NTS



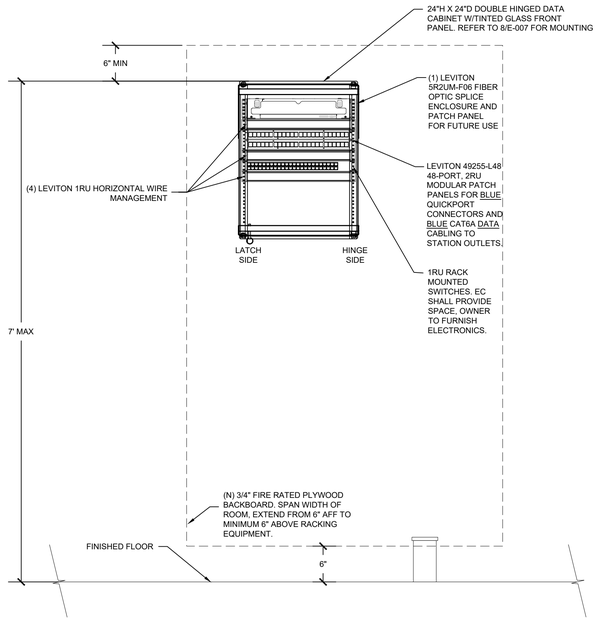
REFERENCE NOTES

1. 1M CAT6A UTP PATCH CORDS TO BE BLUE IN COLOR. 1M CAT6A UTP PATCH CORDS TO BE BLUE IN COLOR.
2. DEDICATED 20A 120V POWER CIRCUIT TO RECEPTACLE.
3. INSTALL RACK MOUNTED 19" MODULAR PATCH PANEL, SEE RISER DIAGRAM FOR PORT COUNT. WHERE CAT6 IS TERMINATED, USE BLUE MODULAR JACK COLOR, WHERE CAT6A IS TERMINATED USE BLUE MODULAR JACK COLOR.
4. SYSTEM ELECTRONICS TO BE PROVIDED AND INSTALLED BY OTHERS.
5. (E) AND (N) RACEWAY FOR HORIZONTAL CABLING TO USER STATIONS AND INCOMING FIBER OPTIC CABLE.
6. INSTALL FIBER OPTIC SPLICE TRAY, LEVITON OPT-X 1000i SERIES OR EQUIVALENT. FUSION SPLICE ALL FIBER CABLE ACCORDING TO RISER DIAGRAM.
7. DOUBLE HINGED IDF CABINET HUBBELL QUADCAB, 24"W X 24""H X 24"D OR EQUIVALENT WITH TINTED GLASS FRONT PANEL. THERMOSTATICALLY CONTROLLED FAN/FILTER KIT AND SURGE-PROTECTED OUTLET KIT SHALL BE INSTALLED.
8. (N) INCOMING CATEGORY 6A CABLE. PROVIDE SERVICE LOOP INSIDE CABINET.
9. (N) INCOMING FIBER OPTIC CABLE, PROVIDE SERVICE LOOP INSIDE CABINET.
10. DUPLEX FIBER OPTIC PATCH CORD. LC-LC, CONNECTOR TYPE, MATCH INCOMING FIBER TYPE.
11. CABLE PROVIDED BY OTHERS TO SUPPORT LOGICAL STACKED SWITCH. PROVIDED ONLY WHEN (2) OR MORE NETWORK SWITCHES ARE INSTALLED INTO CABINET.

4 IDF CABINET

SCALE: NTS

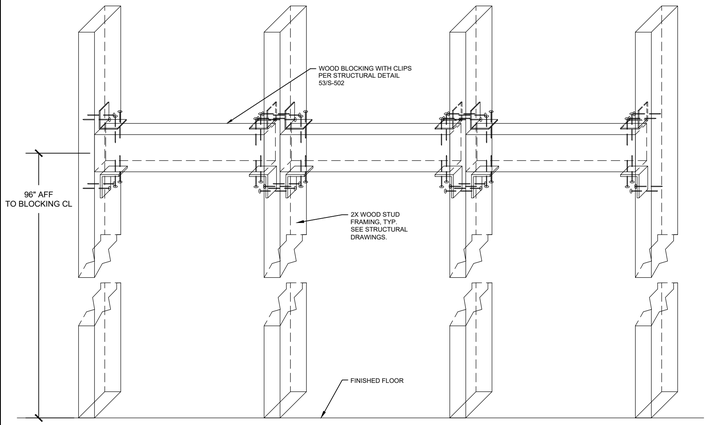
MAXIMUM WEIGHT (INCLUDING CABINET) - 300 LBS



5 IDF WALL MOUNTED CABINET ELEVATION

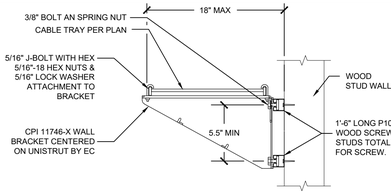
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MAXIMUM WEIGHT (INCLUDING CABINET) - 300 LBS

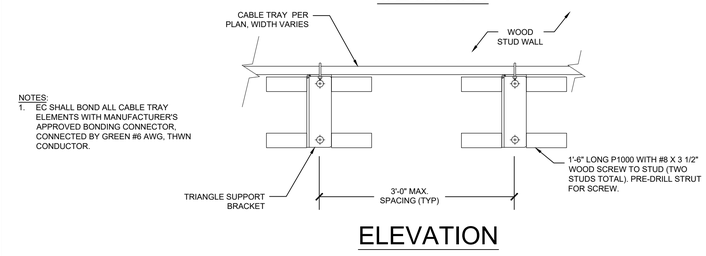


1 BLOCKING FOR TELEVISION

SCALE:



SECTION



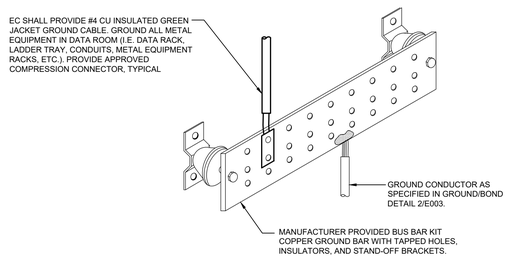
NOTES:
1. EC SHALL BOND ALL CABLE TRAY ELEMENTS WITH MANUFACTURER'S APPROVED BONDING CONNECTOR, CONNECTED BY GREEN #6 AWG, THWN CONDUCTOR.

ELEVATION

2 WALL MOUNT LADDER TRAY

SCALE:

MAXIMUM WEIGHT - 25LBS./FT.



NOTE:
- PROVIDE A GROUND BAR PER THIS DETAIL IN CUSTOMER DATA ROOM.

3 TYP. TELECOM GROUND BAR

SCALE:

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MESA MIDDLE SCHOOL SCIENCE AND SPED CLASSROOMS

2555 S HALCYON RD, ARROYO GRANDE, CA

ELECTRICAL DETAILS

NO.	REVISION	DATE
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PROJECT MANAGER
JC

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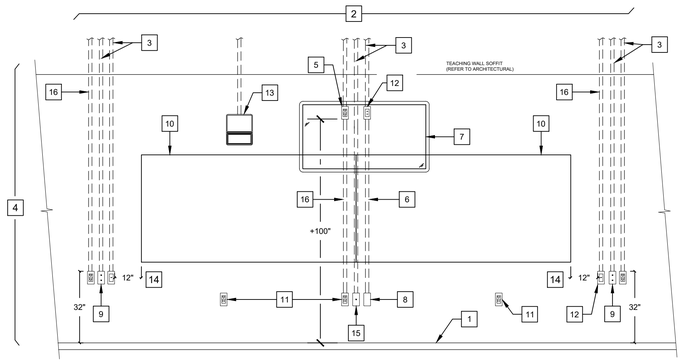
DATE
APRIL 23, 2026

PROJECT NUMBER
0822-03-ED25

SHEET
E006

DSA BACK CHECK 2

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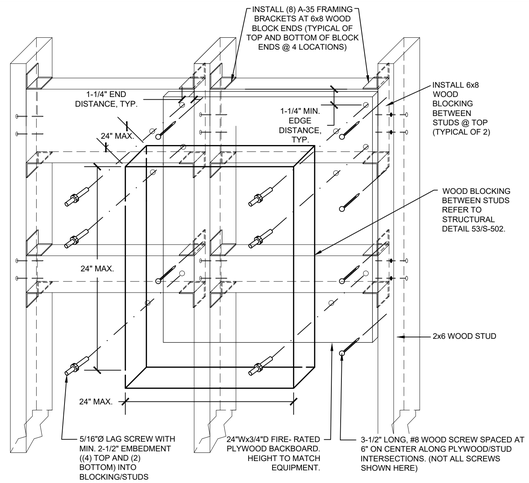


☐ REFERENCE NOTES

1. FINISHED FLOOR.
2. ACCESSIBLE CEILING SPACE.
3. (N)(2) 1-1/4" CONDUITS (LOW VOLTAGE CABLING).
4. FINISHED WALL. REFER TO ARCHITECTURAL ELEVATIONS FOR DEVICE MOUNTING HEIGHTS. COORDINATE WITH OWNER PRIOR TO ROUGH-IN.
5. (N) DUPLEX RECEPTACLE PROVIDED BEHIND TELEVISION. EXACT LOCATION TO BE COORDINATED PRIOR TO ROUGH-IN WITH TELEVISION MOUNTING HARDWARE AND VERIFIED WITH DISTRICT REPRESENTATIVE.
6. (1) 1-1/4" C BETWEEN LOW VOLTAGE BOXES AS SHOWN.
7. TELEVISION AND TELEVISION MOUNT (REFER TO ARCHITECTURAL DETAIL 44/A-941) SHALL BE INSTALLED BY OWNER. PROVIDE BLOCKING PER DETAIL 1/E006.
8. 5S BACKBOX WITH SINGLE GANG MUD RING WITHOUT CABLES AND BLANK FACEPLATE.
9. 2-PORT DATA OUTLET IN TRUE 5S BACKBOX AS SHOWN ON PLAN. FIELD VERIFY FINAL LOCATION WITH DISTRICT REPRESENTATIVE PRIOR TO ROUGH-IN.
10. WHITE BOARDS PER ARCHITECTURAL PLANS. WHITEBOARD LOCATION IN ELEVATION VIEW DOES NOT REFLECT ACTUAL CONDITION, REFER TO ARCHITECTURAL SHEETS FOR REQUIREMENTS. CONFIRM LOCATIONS WITH OWNER PRIOR TO ROUGH-IN.
11. (N) DUPLEX RECEPTACLE MOUNTED BELOW WHITE BOARD AT 16" AFF UNLESS OTHERWISE NOTED. (+15" MINIMUM AFF TO BOTTOM OF BOX)
12. HDMI BRUSHED PASS-THROUGH 4-11/16" SQUARE BACKBOX WITH WALL PLATE IN MULTI-GANG CONFIGURATION.
13. VOIP SPEAKER. 5S BOX WITH SINGLE-GANG PLASTER RING. 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE.
14. MAINTAIN 12" SEPARATION FROM WHITEBOARD EDGE. MAINTAIN 32" BOX HEIGHT (TOP OF BOX). REFER TO ARCH FOR ACTUAL WHITE BOARD DIMENSIONS.
15. SINGLE-PORT DATA OUTLET IN TRUE 5S BACKBOX AS SHOWN ON PLAN. FIELD VERIFY FINAL LOCATION WITH DISTRICT REPRESENTATIVE PRIOR TO ROUGH-IN.
16. (N) (1) 3/4" CONDUIT (POWER).

4 RECESSED MEDIA - TEACHING WALL

SCALE:



MAXIMUM IDF CABINET WEIGHT: 300 LBS.

NOTES:

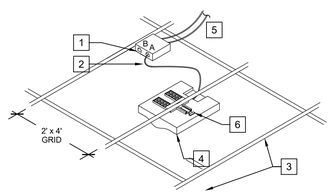
1. CABINET SHALL NOT SUPPORT MORE THAN 300LBS (INCLUDING CABINET WEIGHT).

8 SURFACE MOUNTED IDF CABINET

SCALE: MAXIMUM WEIGHT (INCLUDING CABINET) - 300 LBS

5 NOT USED

SCALE:



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.

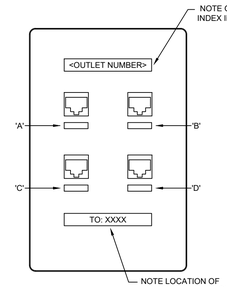
☐ REFERENCE NOTES

1. 2-PORT BISCUIT MOUNTED IN ACCESSIBLE CEILING SPACE. CONTRACTOR SHALL PROVIDE LABELS FOR EACH CABLE AT BISCUIT, AND SHALL TERMINATE (FEMALE) AND TEST BOTH CABLES, AND PROVIDE TEST RESULTS TO OWNER.
2. (1) (N) WHITE, 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' CABLE ON BISCUIT.
3. (E) 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 CONTRACTOR. CONTRACTOR SHALL NOTIFY OWNER OF ACCESS POINT QUANTITIES AND LOCATIONS A MINIMUM OF 6-WEEKS PRIOR TO INSTALLATION DATE.
5. (2) (N) WHITE CAT6A CABLES FROM IDF TO BISCUIT. ALL CAT6A CABLE AND TERMINATION HARDWARE (INCLUDING MODULAR JACKS, PATCH CABLES, ETC.) SHALL BE WHITE IN COLOR.
6. WAP MANUFACTURER PROVIDED T-BAR MOUNTING CLIP. ADHERE STRICTLY TO MANUFACTURER PROVIDED INSTALLATION INSTRUCTIONS.

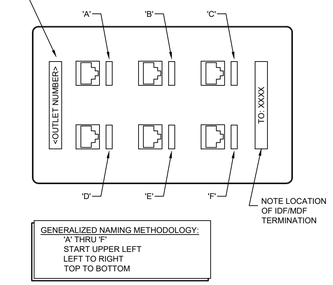
6 INDOOR WIRELESS ACCESS POINT T-BAR MOUNTING

SCALE: MAXIMU WEIGHT - 8LBS.

VERTICAL ORIENTATION



HORIZONTAL ORIENTATION



GENERALIZED NAMING METHODOLOGY:
'A' THRU 'F'
START UPPER LEFT
LEFT TO RIGHT
TOP TO BOTTOM

NOTES:

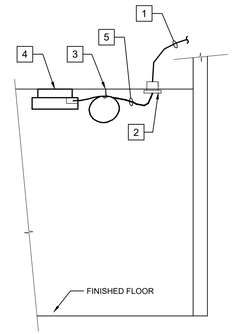
- ALL JACK LOCATIONS ASSIGNED BY POSITION IN ROOM, SEE "DATA OUTLET NAMING CONVENTIONS WITHIN ROOM" DETAIL FOR ASSIGNMENT METHODOLOGY.
- ALL JACKS TERMINATED AS T568B PINOUT.
- ALL JACKS COLOR TO MATCH INCOMING CABLE PLANT.
- PROVIDE IDENTICAL LABEL AT CORRESPONDING PATCH PANEL LOCATION AND ON CABLE PLANT ITSELF.

1 DATA OUTLET NAMING CONVENTIONS AT FACEPLATE

SCALE:

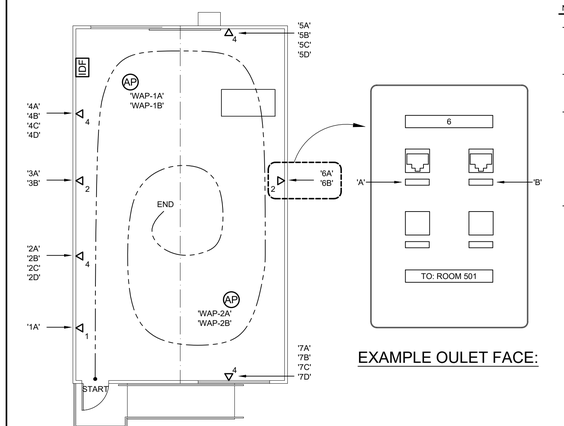
☐ REFERENCE NOTES

1. DATA CABLING BACK TO TELECOMMUNICATIONS ROOM, WAP CABLING TYPE/COLORS AS DETAILED ON RISER DIAGRAM.
2. (1) (N) 5-SQUARE RECESSED BOX WITH (2) (N) CAT6A FEMALE RJ-45 TERMINATED. FOLLOW COLOR CODING OUTLINED ON RISER DIAGRAM.
3. J-HOOK OR APPROVED MOUNTING AND RETENTION OF SERVICE LOOP
4. WIRELESS ACCESS POINT FLUSH-MOUNT BRACKET. MOUNT TO CEILING FRAME USING MANUFACTURER PROVIDED GUIDELINES AND HARDWARE.
5. (2) NEW 2-METER CAT6A PATCH CABLE BETWEEN NEW WIRELESS ACCESS POINT AND OUTLET FACEPLATE. PATCH CABLE TO BE INSERTED INTO RJ-45 PORT LABELED 'PoE'



2 INDOOR WIRELESS ACCESS POINT - HARD LID MOUNT

SCALE: MAXIMU WEIGHT - 8LBS.



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:

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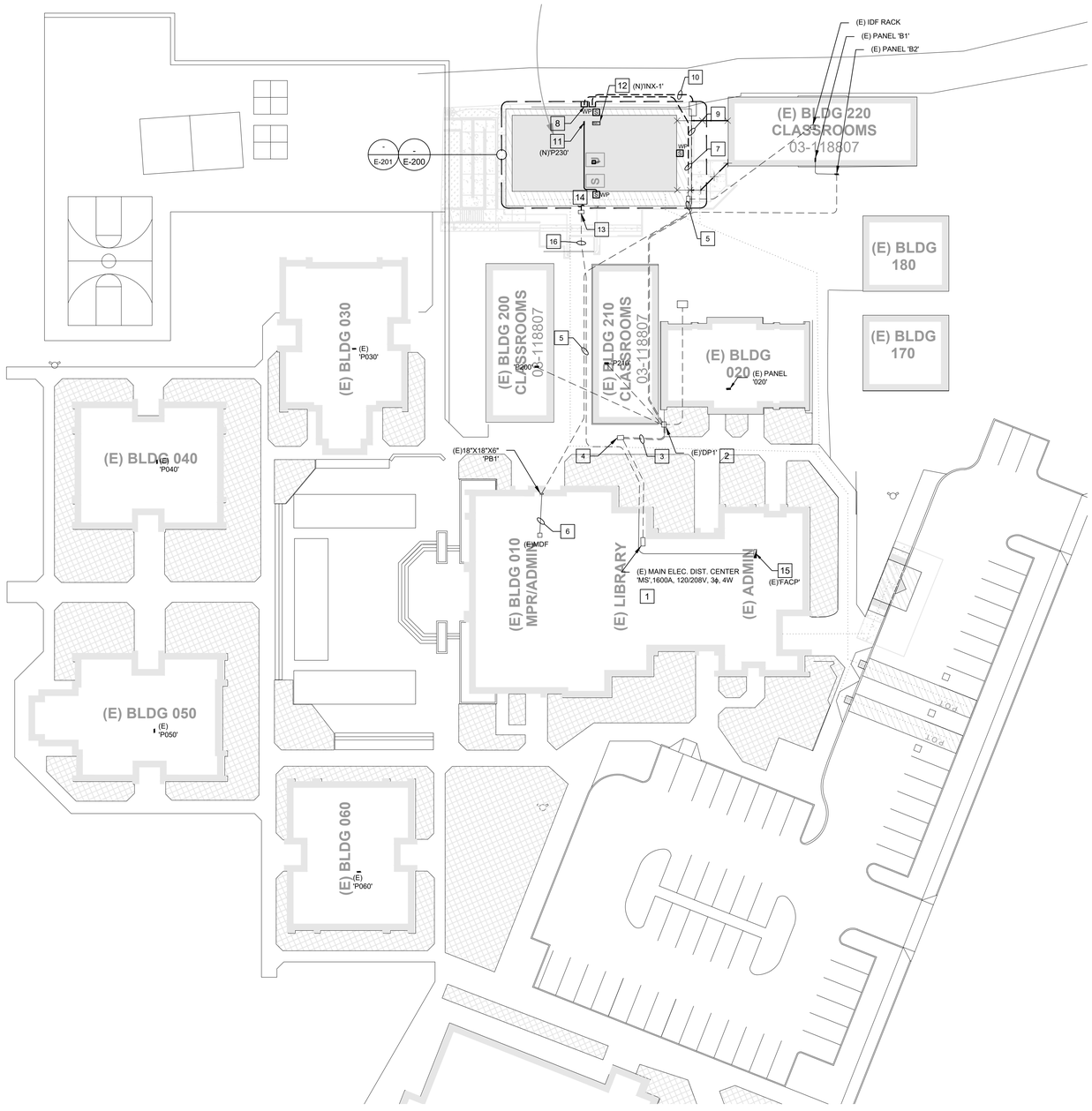
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PROJECT MANAGER: JC
DRAWN BY: AV
CHECKED BY: JC
DATE: APRIL 23, 2026
PROJECT NUMBER: 0822-03-ED25
SHEET: E007

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ELECTRICAL SITE PLAN

SCALE: 1" = 30' - 0"

NORTH

REFERENCE NOTES

1. EXISTING MAIN SWITCHBOARD 'MS'. RATING AS INDICATED AND SCHEDULED TO REMAIN.
2. EXISTING DISTRIBUTION PANELBOARD 'DP1'. REFER TO SINGLE LINE DIAGRAM FOR PANELBOARD RATING.
3. EXISTING (2) 4" CONDUITS SHALL REMAIN.
4. EXISTING 2' X 3' PULLBOX SHALL REMAIN.
5. EXISTING (2) 2" CONDUITS FOR COMMUNICATION TO EXISTING PULL BOX SHALL REMAIN. CONTRACTOR SHALL RE-USE PATHWAY AND PULL NEW FIBER TO NEW IDF CABINET.
6. EXISTING (2) 4" CONDUITS FROM MDF TO EXISTING COMM BOX. SCHEDULED TO REMAIN.
7. INTERCEPT AND EXTEND EXISTING COMM CONDUITS FOR BUILDING 230.
8. CONTRACTOR TO EXTEND TO NEW IDF CABINET. FIELD COORDINATE ROUTING AND SWEEP TO NEW IDF CABINET.
9. CONTRACTOR SHALL RE-USED EXISTING (2) 2" CONDUITS THAT EXTEND FROM EXISTING DISTRIBUTION PANELBOARD 'DP1' TO EXISTING VAULT.
10. CONTRACTOR SHALL EXTEND NEW FEEDER FROM EXISTING VAULT TO NEW PANELBOARD 'P230'. REFER TO SINGLE LINE DIAGRAM FOR FEEDER SPECIFICATION.
11. NEW PANELBOARD 'P230'. REFER TO SINGLE LINE DIAGRAM AND ELECTRICAL SCHEDULES FOR PANELBOARD INFORMATION. BASIS OF DESIGN: PANELBOARD TO BE SQUARE D NQOD SERIES.
12. NEW FIRE ALARM INX TRANSPONDER 'INX-1'.
13. EXISTING 3' X 2' PULLBOX FOR FIRE ALARM SCHEDULED TO REMAIN.
14. CONTRACTOR SHALL EXTEND 2" CONDUIT W/ FIRE ALARM CONDUCTORS, REFER TO FIRE ALARM RISER.
15. EXISTING FIRE ALARM CONTROL PANEL, 'FACP'.
16. EXISTING 1" CONDUIT FROM FIRE ALARM PANEL TO EXISTING PULLBOX. CONTRACTOR SHALL RE-USE CONDUIT AND EXTEND NEW FIRE ALARM CONDUCTORS. REFER TO FIRE ALARM RISER.

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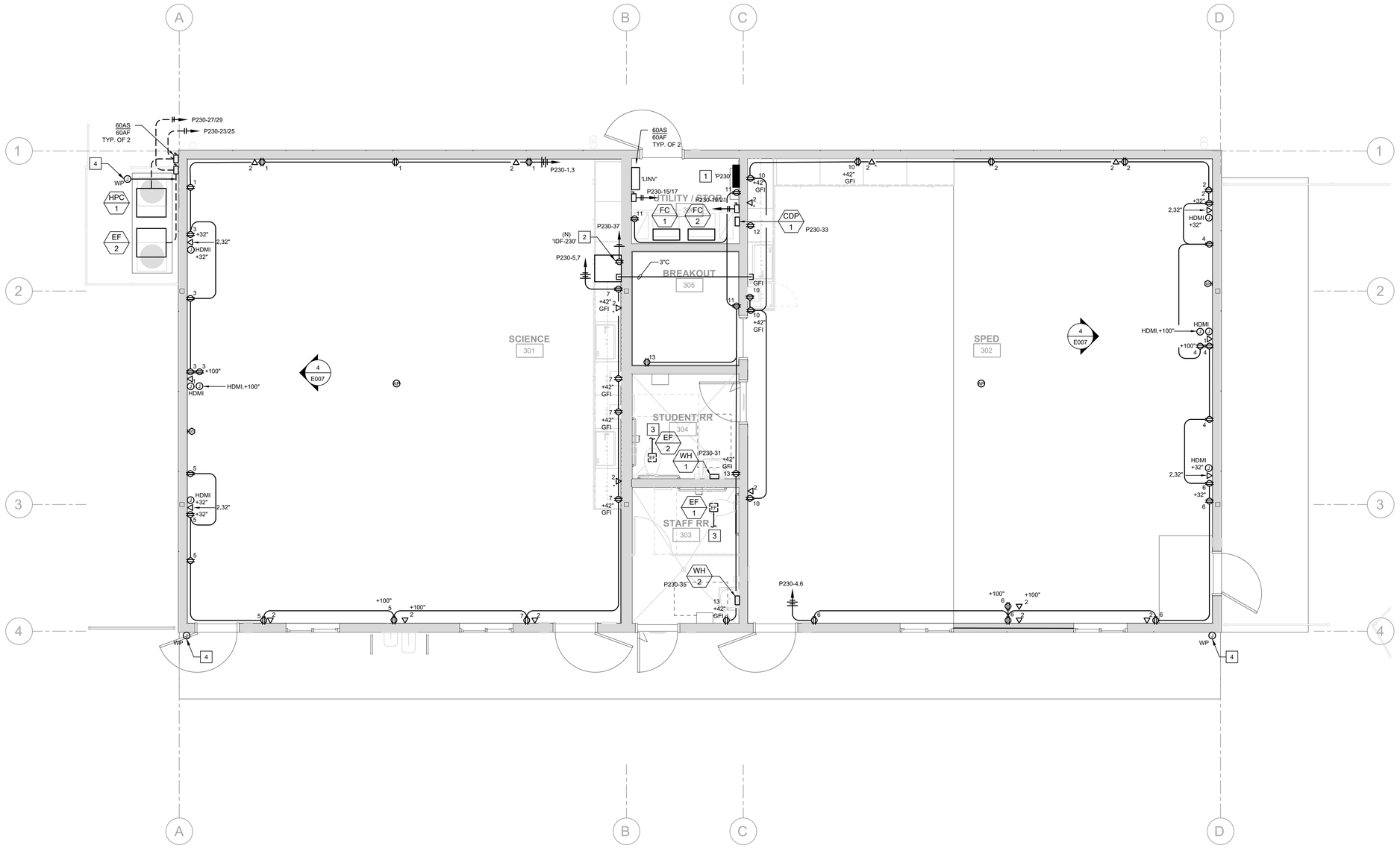
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ELECTRICAL POWER & COMMUNICATION PLAN

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

NORTH

REFERENCE NOTES

1. NEW PANELBOARD 'P230'. REFER TO SINGLELINE DIAGRAM AND ELECTRICAL SCHEDULES FOR PANELBOARD RATING AND ADDITIONAL INFORMATION.
2. PROVIDE DEDICATED POWER CONNECTION TO CABINET. ONE (1) 20A, 120V DUPLEX RECEPTACLE INSIDE IDF CABINET.
3. REFER TO LIGHTING PLANS FOR EXHAUST FAN CIRCUIT CONNECTION.
4. CONTRACTOR SHALL INSTALL JUNCTION BOX FOR CAMERA. INSTALL 1" CONDUIT FROM JUNCTION BOX TO IDF CABINET (CAMERA AND WIRING BY OTHERS).

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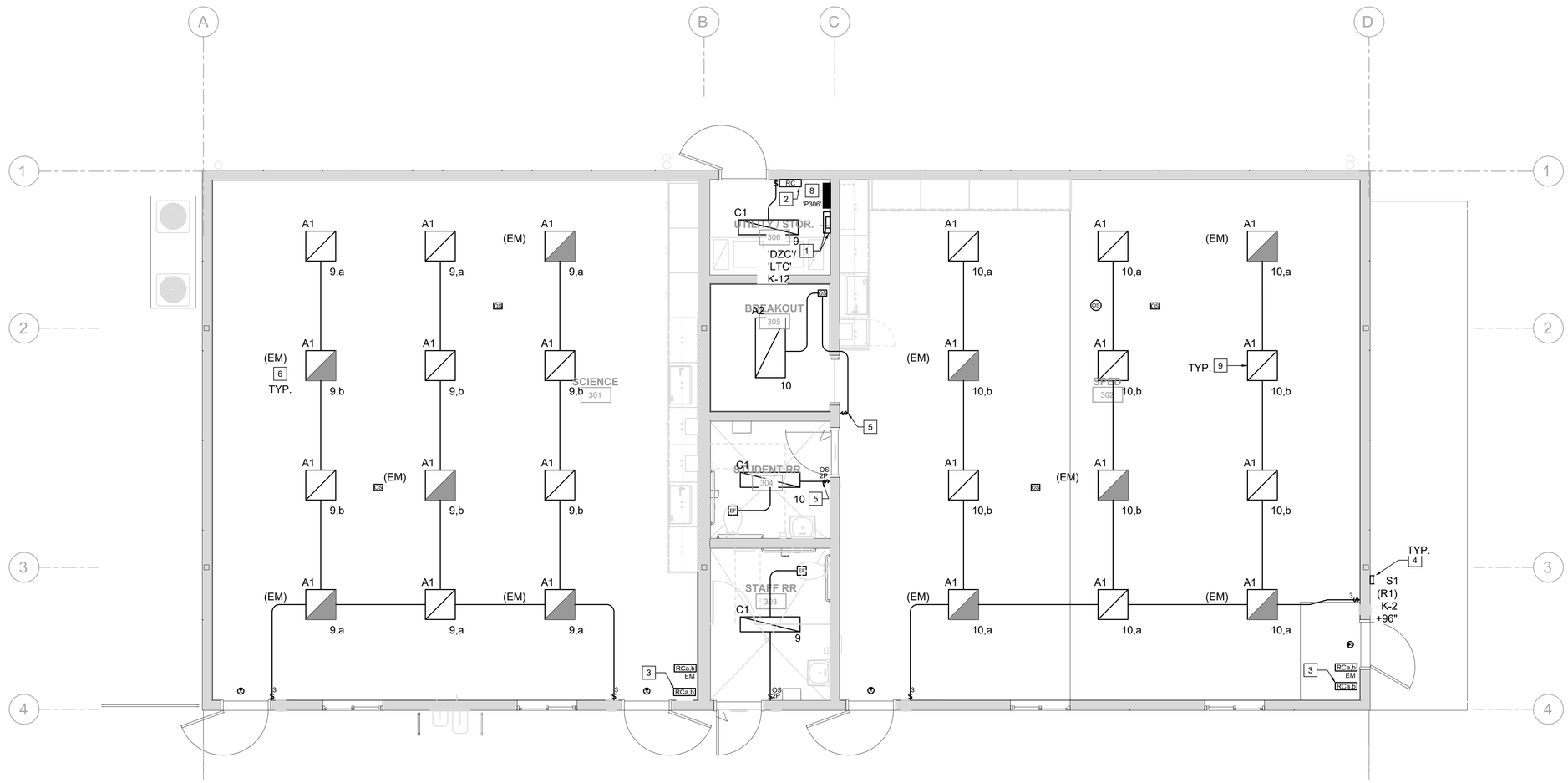
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ELECTRICAL LIGHTING PLAN

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

NORTH

REFERENCE NOTES

1. PROVIDE WATTSTOPPER DLM ZONE CONTROLLER 'DZC' (LMZC-301; PRODUCT WEIGHT IS 18LBS) WALL MOUNTED AS SHOWN TO PROVIDE SCHEDULED EVENTS AND ASTRONOMICAL TIME CLOCK CONTROL OF EXTERIOR LUMINAIRES. MOREOVER, PROVIDE SUPPLEMENTAL MECHANICAL EXTERIOR LIGHTING CONTROL TIME CLOCK 'LTC' (INTERMATIC #T7401BC OR DISTRICT APPROVED EQUAL; PRODUCT WEIGHT IS 9.5LBS). ALL BUILDING MOUNTED EXTERIOR LIGHTING FOR NEW KINDER BUILDING TO BE WIRED THROUGH THE MECHANICAL TIME CLOCK IN ADDITION TO THE EXTERIOR LIGHTING ROOM CONTROLLER (REFER TO REFERENCE NOTE #2 ON THIS SHEET). SEE LIGHTING CONTROL DIAGRAM DETAIL 2/E-004.
2. DEDICATED EXTERIOR LIGHTING ROOM CONTROLLER (WATTSTOPPER LMRC-212, EQUIPPED WITH TWO 0-10V RELAYS). LOCATE IN A CONCEALED SPACE INSIDE (NOT NECESSARILY WHERE SHOWN ON PLAN). CONNECT TO WATTSTOPPER DLM ZONE CONTROLLER (LMZC-301) TO ENABLE SCHEDULED EVENTS AND ASTRONOMICAL TIME CLOCK CONTROL OF EXTERIOR LUMINAIRES (REFER TO LIGHTING CONTROL DIAGRAM DETAIL 2/E-004 FOR FURTHER INFORMATION). ROOM CONTROLLER WEIGHT IS 0.375LBS.
3. WATTSTOPPER ROOM CONTROLLER FOR LIGHTING CONTROL, PER CALIFORNIA ENERGY CODE 130.1(b) & (c). LOCATE IN A CONCEALED SPACE (NOT NECESSARILY WHERE SHOWN ON PLAN). REFER TO SHEET E-004 FOR LIGHTING CONTROL SYSTEM LEGEND AND WATTSTOPPER SYSTEM WIRING DIAGRAMS. TEXT ADJACENT TO "RC" (WHERE PROVIDED) IN ROOM CONTROLLER SYMBOL INDICATES SWITCH LEGS BEING CONTROLLED (I.E., "RCa,b" ARE RELAYS FOR SWITCH LEGS 'a' and 'b' LUMINAIRES) IN A GIVEN ROOM/SPACE. ROOM CONTROLLER WEIGHT IS 0.375LBS.
4. ROUTE EXTERIOR LIGHTING BRANCH CIRCUIT THROUGH DEDICATED EXTERIOR LIGHTING ROOM CONTROLLER (WATTSTOPPER LMRC-212, EQUIPPED WITH TWO 0-10V RELAYS). RELAY NUMBER INDICATED BY '(R#)' NOMENCLATURE BEFORE CIRCUIT ID; SEE LIGHTING CONTROL DIAGRAM DETAIL 2/E-004.
5. INTERLOCK EXHAUST FAN WITH LIGHTING IN RESTROOM VIA LINE VOLTAGE WITH OCCUPANCY SENSING SWITCH. PROVIDE 5-MINUTE TIME DELAY OFF FOR EXHAUST, PER MECHANICAL PLANS.
6. "EM" DESIGNATION ON LUMINAIRE TYPE INDICATES LUMINAIRE EQUIPPED WITH INTEGRAL EMERGENCY BATTERY PACK (TYP). REFER TO LUMINAIRE SCHEDULE FOR FURTHER INFORMATION.
7. WATTSTOPPER DAYLIGHT HARVESTING PHOTOCELL (LMLS-500) FOR AUTOMATIC DAYLIGHTING CONTROL OF LUMINAIRES IN PRIMARY AND SECONDARY DAYLIT ZONES, PER CA T24 ENERGY CODE 130.1(d) REQUIREMENTS. SURFACE MOUNT TO CEILING VIA JUNCTION BOX MOUNTING BRACKET (WATTSTOPPER PART NO. LMLS-MB1) TO STANDARD 4" SQUARE JUNCTION BOX (REFER TO MANUFACTURER INSTALLATION INSTRUCTIONS). REFER TO X/E-003 FOR FURTHER INFORMATION ON PLACEMENT GUIDELINES. PHOTOCELL WEIGHT IS 0.25LBS.
8. (N) BUILDING ELECTRICAL PANEL--REFER TO SINGLE LINE DIAGRAM FOR FEEDER CONDUIT AND CONDUCTOR SIZE, AND PANEL SCHEDULE FOR CIRCUITED LOADS.
9. ELECTRICAL CONTRACTOR SHALL VERIFY ORIENTATION OF TYPE 'A1' 2X2 LIGHT FIXTURES (FOR AESTHETICS OF VISIBLE FELT) IN CLASSROOM AREAS WITH ARCHITECT PRIOR TO INSTALLATION. MOREOVER, GENERAL CONTRACTOR SHALL ENSURE EACH TYPE 'A1' FIXTURE IS PROVIDED WITH A 2X2 ACOUSTICAL CEILING TILE MATCHING THE TYPE SPECIFIED BY THE ARCHITECT ON THE ARCHITECTURAL RCP IN THE ASSOCIATED ROOM AND PROJECT SPECIFICATIONS FOR USE WITH THE FIXTURE (TYPE 'A1' FIXTURES ARE INDIRECT LIGHTING FIXTURES THAT UTILIZE PROJECT CEILING TILES AS A REFLECTIVE SURFACE).
10. INSTALL LIGHT SWITCH FOR CALM ROOM OUTSIDE OF ROOM. FIELD COORDINATE FINAL LOCATION.

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ELECTRICAL
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EXPIRES: 09/30/26
THOMA #25-8026

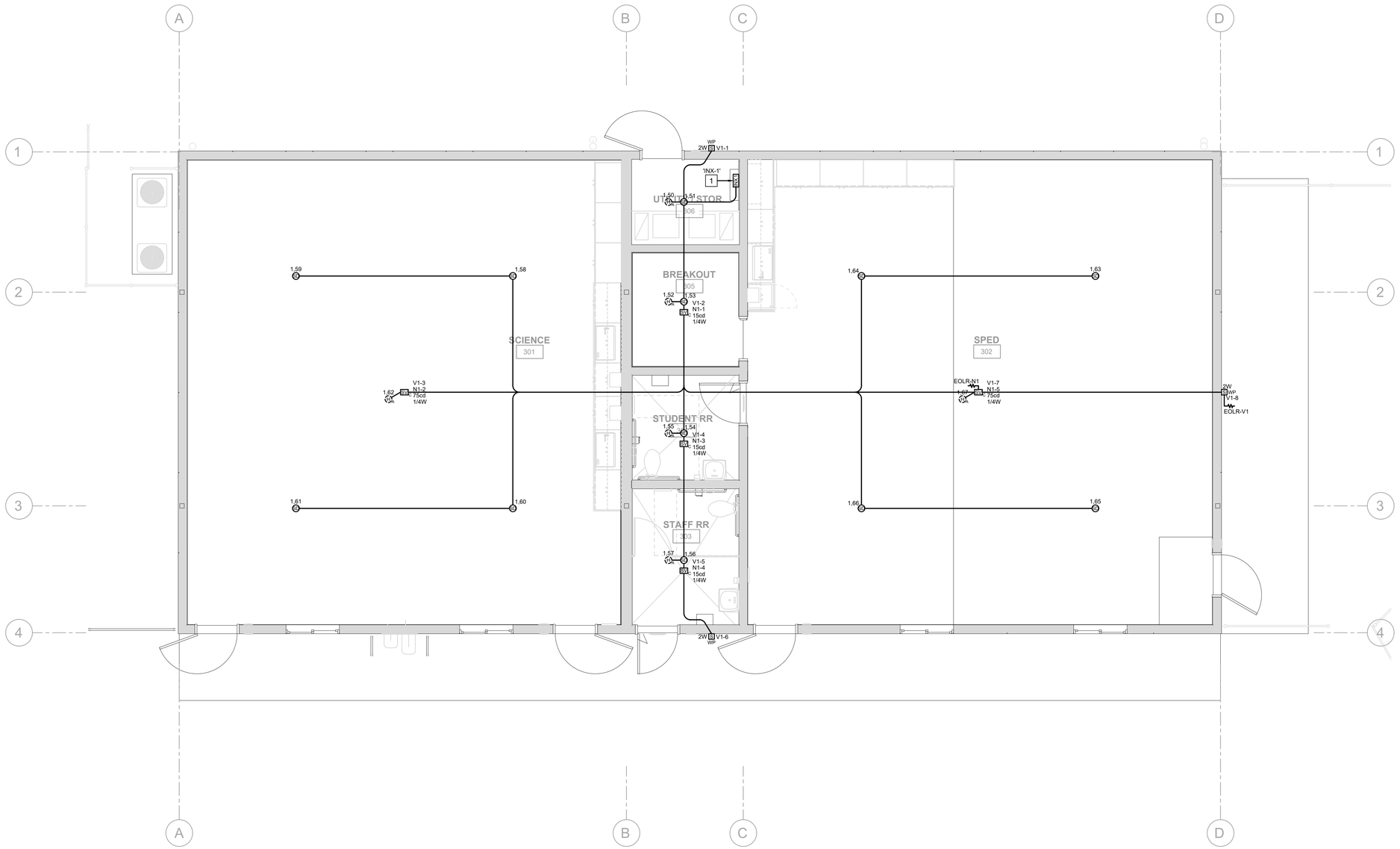
DSA BACK CHECK 2

MESA MIDDLE SCHOOL SCIENCE AND SPED CLASSROOMS
2555 S HALCYON RD, ARROYO GRANDE, CA
ELECTRICAL LIGHTING PLAN

NO.	REVISION	DATE
1		
2		
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PROJECT MANAGER: JC
DRAWN BY: AV
CHECKED BY: JC
DATE: APRIL 23, 2026
PROJECT NUMBER: 0822-03-ED25
SHEET: E201

Feb 20, 2026 - 4:55pm - jchachagua - K:\ENG\2025\25-8026\25-8026_E201_ELEC LTG PLAN.dwg
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Autodesk Docs://0822-03-ED25-Mesa Middle School Classroom/0822-03_Mesa Middle School - Science & SPED Classroom.rvt



FIRE ALARM PLAN

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

NORTH

REFERENCE NOTES

1. NEW FIRE ALARM INX TRANSPONDER "INX-1". SEE FIRE ALARM RISER DIAGRAM SHEET E300.

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2-28-27
RENEWAL DATE
STATE OF CALIFORNIA

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MESA MIDDLE SCHOOL SCIENCE AND SPED CLASSROOMS

2555 S HALCYON RD, ARROYO GRANDE, CA

FIRE ALARM PLAN

NO.	REVISION	DATE
1		
2		
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PROJECT MANAGER
JC

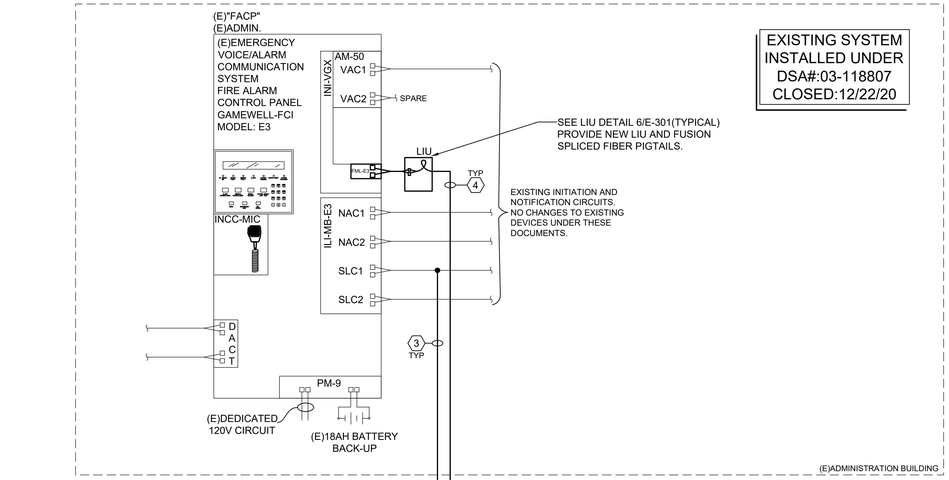
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DATE
APRIL 23, 2026

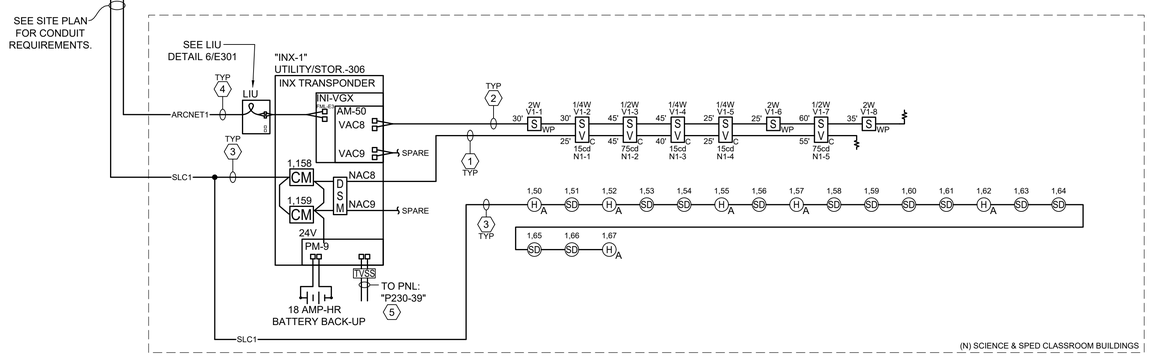
PROJECT NUMBER
0822-03-ED25

SHEET
E203

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Autodesk Docs://0822-03-ED25-Mesa Middle School Classroom/0822-03_Mesa Middle School - Science & SPED Classroom.rvt



SEE SITE PLAN FOR CONDUIT REQUIREMENTS.



FIRE ALARM SYMBOLS LEGEND:

SYMBOL	MODEL #	CSFM #
FACP	(E)EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM(EV/ACS) FIRE ALARM CONTROL PANEL GAMEWELL-FCI: MODEL E3 WITH: INTELEGENT LOOP INTERFACE MASTER BOARD: ILI-MB-E3 DIGITAL ALARM COMMUNICATOR TRANSMITTER: DACT-E3 LCD KEYPAD DISPLAY: LCD-E3 MICROPHONE: INCC-MIC TRANSPONDER VOICE GATEWAY: INI-VGX AMPLIFIER: AM-50 POWER SUPPLY MODULE: PM-9 (N)FIBER LOOP MODULE FML-E3	7165-1703:0125 EXISTING STYTEM INSTALLED UNDER DSA#:03-118807 7165-1703:0176
INX-1	INTELLIGENT NETWORK TRANSPONDER GAMEWELL-FCI: -INI-VGX -FML-E3 -AM-50 -PM-9	7165-1703:0125
SD	PHOTO SMOKE DETECTOR GAMEWELL-FCI: ASD-PL3 BASE- GAMEWELL-FCI: B300-6	7272-1703:0501 7300-1653:0109
H A (ATTIC)	HEAT DETECTOR-HIGH TEMP GAMEWELL-FCI: ATD-L3H BASE- GAMEWELL-FCI: B300-6	7270-1703:0502 7300-1653:0109
CM	CONTROL MODULE GAMEWELL-FCI: AOM-2SF	7300-1703:0102
S WP	SPEAKER (WEATHER PROOF)* WHEELOCK: EL4XSPST-NR (2W EXTERIOR)	7320-0785:0167
SV C (**cd/ ***W)	SPEAKER/STROBES-CEILING* WHEELOCK: ELSPSTRC (**SIZES AS PER PLANS) (.5W INTERIOR)	7320-0785:0505
DSM	DUAL SYNC MODULE WHEELOCK: DSM-12/24-4	7300-0785-0132
	END OF LINE RESISTOR (EOLR)	–

* 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.

GENERAL NOTES

APPLIES TO ALL RISER SHEETS

1. ALL FIRE ALARM WIRING SHALL BE INSTALLED IN CONDUIT, 1"MINIMUM.
2. 120 VAC WIRING WILL BE MINIMUM #12 AWG.
3. WIRING SHALL NOT BE LOOPED THROUGH DEVICE TERMINALS. CONDUCTORS MUST BE CUT AND WIRED "IN" AND "OUT" SO THAT ADEQUATE SUPERVISION OF THE CIRCUIT CAN BE MAINTAINED.
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 necessaliry 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.

⬡ CABLING SCHEDULE

1. VISUALS - (2)#14 TWISTED UNSHIELDED, WINDY CITY WIRE 767960(INTERIOR), 729110VNQ(EXTERIOR) (CSFM# 7161-1727:0100) OR CABLING AS PER MANUFACTURERS RECOMMENDATIONS.
2. SPEAKERS - (2)#14 TWISTED SHIELDED PAIR, WINDY CITY WIRE 767920(INTERIOR), 712110VNQ(EXTERIOR), (CSFM# 7161-1727:0100) OR CABLING AS PER MANUFACTURERS RECOMMENDATIONS.
3. SLC&LCD - (2)#18 TWISTED UNSHIELDED PAIR, WINDY CITY WIRE 762360(INTERIOR), 727110VNQ(EXTERIOR) (CSFM# 7161-1727:0100) OR CABLING AS PER MANUFACTURERS RECOMMENDATIONS.
4. ARCNET - MULTIMODE 6-STRAND FIBER OPTIC, OM4, 50UM. (OSP). RED JACKET WITH LC CONNECTORS. LABEL AS FIRE ALARM NETWORK IN EACH PULL BOX. ALL FIBER SHALL BE TERMINATED USING PRE-FABRICATED PIGTAILS, CONTRACTOR SHALL FUSION SPLICE ALL PIGTAILS AND CONNECTORS IN WALL MOUNTED FIBER SPLICE ENCLOSURE. FIELD TERMINATED CONNECTORS ARE NOT ACCEPTABLE. CONTRACTOR SHALL PROVIDE ALL JUMPERS IN SUFFICIENT LENGTH BETWEEN FIBER SPLICE ENCLOSURE AND FIBER OPTIC MODULES IN EQUIPMENT. REFER TO DETAIL 3/FA-305 FOR FIBER CABLING LABEL REQUIREMENTS.
5. 120 VAC DEDICATED CIRCUIT. PROVIDE CIRCUIT BREAKER LOCKING DEVICE WITH RED HANDLE AND LABEL "FIRE ALARM CIRCUIT". SEE FLOOR PLANS AND PANEL SCHEDULES FOR CIRCUIT DESIGNATION(S).

** CONDUIT SIZE SHALL BE 1" 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

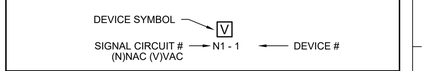
INITIATING CIRCUIT CLASS: 'B'

SYSTEM TYPE: AUTOMATIC

INDICATING CIRCUIT CLASS: B

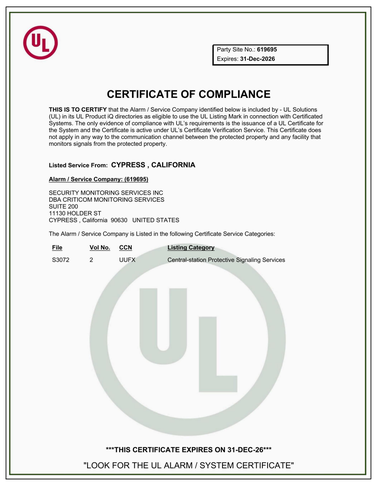
THE FIRE ALARM SYSTEM SHALL BE OF A TYPE THAT UPON ACTIVATION INITIATES NOTIFICATION BY MEANS OF AN EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM (EV/ACS).

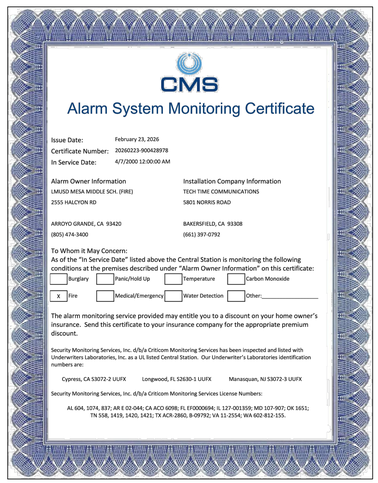
SIGNAL DEVICE CIRCUITING LEGEND



INITIATING DEVICE CIRCUITING LEGEND







1 CENTRAL STATION UL LISTING

SEQUENCE OF OPERATIONS

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)	FUNCTION / DEVICE
YES	YES	YES	YES	YES	YES	AREA SMOKE & HEAT DETECTOR
NO	NO	NO	YES	YES	YES	NOTIFICATION APPLIANCE CKT. SHORT
NO	NO	NO	YES	YES	YES	OPEN CIRCUIT
NO	NO	NO	YES	YES	YES	BUILDING POWER FAILURE
NO	NO	NO	YES	YES	YES	EARTH GROUND FAULT
NO	NO	NO	YES	YES	YES	FA SYSTEM LOW BATTERY

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 (UUJS) 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)

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MESA MIDDLE SCHOOL SCIENCE AND SPED CLASSROOMS
2555 S HALCYON RD, ARROYO GRANDE, CA
FIRE ALARM RISER DIAGRAM

NO.	REVISION	DATE

PROJECT MANAGER: JC
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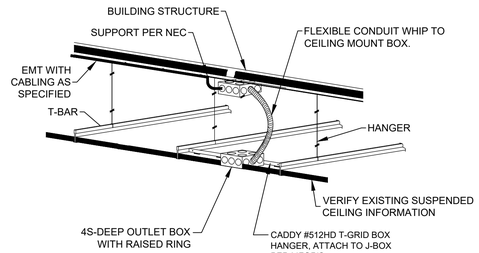
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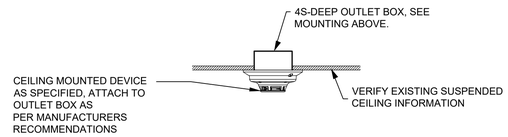
GL-2 FIRE ALARM NOTES CHECKLIST:

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.

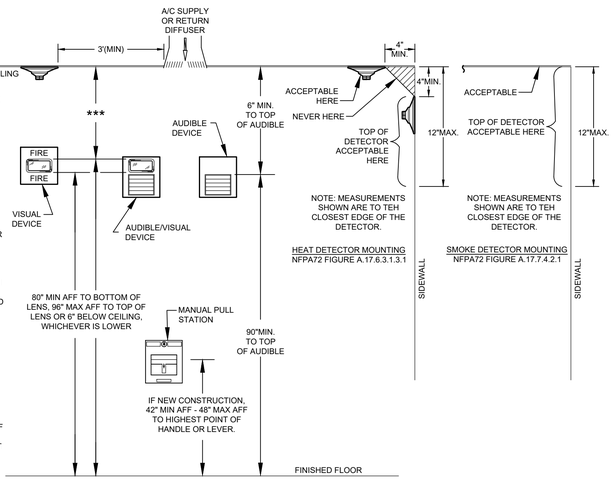
12. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
13. VISIBLE DEVICES SHOULD NOT EXCEED TWO FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELLA. VISIBLE 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.





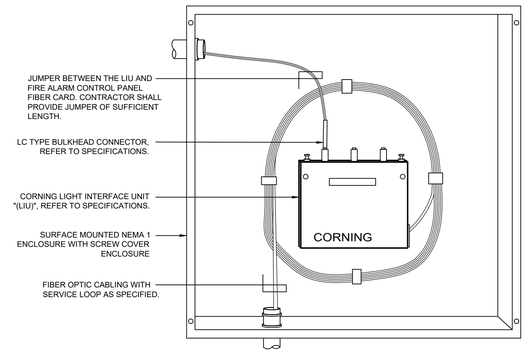
5 TYPICAL DEVICE MOUNTING DETAIL AT T-BAR CEILINGS

NTS



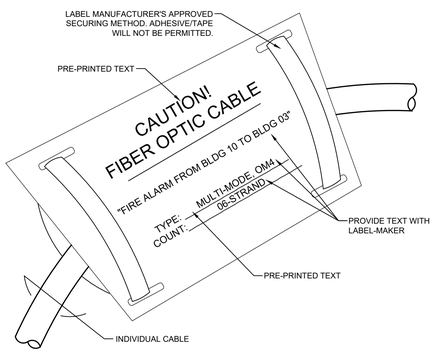
1 DEVICE ELEVATION DETAIL

SCALE: N.T.S.



6 TYPICAL LIGHT INTERFACE UNIT 'LIU' INSTALLATION

NTS

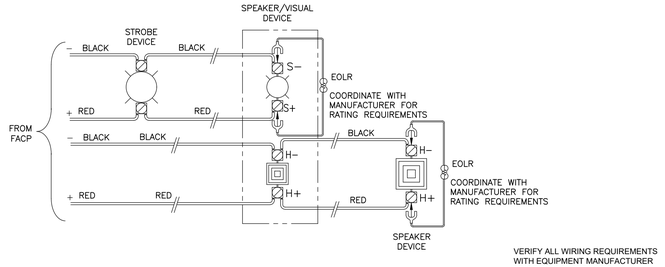


NOTES:

- LABEL SHALL CONTAIN THE WORDS "CAUTION! FIBER OPTIC CABLE"
- LABEL SHALL CLEARLY IDENTIFY THE SOURCE AND DESTINATION OF THE FIBER CABLE.
- LABEL SHALL CLEARLY IDENTIFY THE TYPE AND STRAND COUNT CONTAINED WITHIN THE CABLE.
- ALL LABEL MARKINGS SHALL BE MADE IN INDELIBLE INK
- LABEL SHALL BE SELF LAMINATED AND SUITABLE FOR OUTDOOR, SUBMERGED APPLICATIONS WITHOUT DEGRADATION.
- WHERE USED FOR CAMPUS FIRE ALARM CABLING, TAG COLORS SHALL BE BLACK AND RED.

7 FIBER OPTIC CABLE LABEL

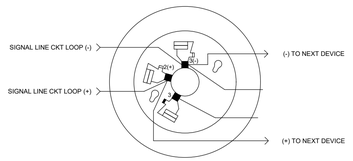
NTS



VERIFY ALL WIRING REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO CONSTRUCTION.

2 TYPICAL NOTIFICATION CIRCUIT WIRING DIAGRAM

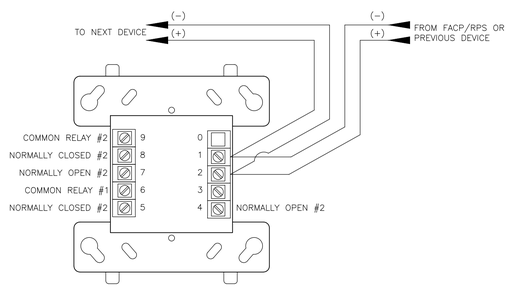
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VERIFY ALL WIRING REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO CONSTRUCTION.

3 ADDRESSABLE SMOKE AND HEAT DETECTOR WIRING DIAGRAM

NTS



VERIFY ALL WIRING REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO CONSTRUCTION.

4 TYPICAL ADDRESSABLE CONTROL MODULE WIRING DIAGRAM

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EXPIRES: 09/30/26
THOMA #25-8026

DSA BACK CHECK 2

MESA MIDDLE SCHOOL SCIENCE AND SPED CLASSROOMS

2555 S HALCYON RD, ARROYO GRANDE, CA

FIRE ALARM DETAILS

NO.	REVISION	DATE

PROJECT MANAGER JC

DRAWN BY AV | **CHECKED BY** JC

DATE APRIL 23, 2026

PROJECT NUMBER 0822-03-ED25

SHEET E301

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VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Mesa M.S. Sci. & SPED C.R.
VAC/VOICE SIG CKT#	V1

CKT/DEVICE #	V1-1	V1-2	V1-3	V1-4	V1-5	V1-6	V1-7	V1-8	V1-9	V1-10
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT.)	30	30	45	45	25	25	60	35	0	0
AMPS @ DEVICE	0.083	0.0104	0.0208	0.0104	0.0104	0.083	0.0208	0.083	0	0
AMPS DEVELOPED	0.3218	0.2388	0.2284	0.2076	0.1972	0.1868	0.1038	0.083	0	0
VOLT. DROP	0.049	0.036	0.052	0.047	0.025	0.024	0.031	0.015	0.000	0.000

CKT/DEVICE #	V1-11	V1-12	V1-13	V1-14	V1-15	V1-16	V1-17	V1-18	V1-19	V1-20
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	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	V1
TOTAL CKT AMPS.=	0.3218 (7.72W)
CIRCUIT LENGTH =	295FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.278
VOLTAGE AT FINAL DEVICE=	20.122
% VOLTAGE DROP=	1.363

SPEAKER LOAD	
INTERIOR	.25W = .0104A
INTERIOR	.5W = .0208A
EXTERIOR	2W = .0830A

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	Mesa M.S. Sci. & SPED C.R.
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-C	S/V75cd-C	S/V15cd-C	S/V15cd-C	S/V75cd	0	0	0	0	0
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT.)	25	35	35	35	30	0	0	0	0	0
AMPS @ DEVICE	0.022	0.06	0.022	0.022	0.06	0	0	0	0	0
AMPS DEVELOPED	0.186	0.164	0.104	0.082	0.06	0	0	0	0	0
VOLT. DROP	0.023	0.029	0.018	0.014	0.009	0.000	0.000	0.000	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	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	N1
TOTAL CKT AMPS.=	0.186
CIRCUIT LENGTH =	160FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.094
VOLTAGE AT FINAL DEVICE=	20.306
% VOLTAGE DROP=	0.462

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

BATTERY CALCULATIONS

PROJECT: **Mesa M.S. Sci. & SPED C.R.-(E)'FACP'**
Based on 24 Hour Standby

Device	Manufacturer	#	QTY	Standby Amps	Total Standby Amps	Alarm Amps	Total Alarm Amps
(E)Fire Alarm Control Pnl. -EV/ACS	Gamewell-FCI	E3-Series	--	--	0.0000	--	0.0000
(E)Intelegent Loop Interface Master Board	Gamewell-FCI	ILI-MB-E3	1	0.08100	0.0810	0.15000	0.1500
(E)LCD Keypad Display	Gamewell-FCI	LCD-E3	1	0.02400	0.0240	0.02800	0.0280
(E)Addressable Switch Module	Gamewell-FCI	ASM-16	1	0.01100	0.0110	0.01100	0.0110
(E)Digital Alarm Communicator Transmitter	Gamewell-FCI	DACT-E3	1	0.01800	0.0180	0.01800	0.0180
(E)Transponder Voice Gateway W/ INC-MIC	Gamewell-FCI	IN-VGX	1	0.15000	0.1500	0.15000	0.1500
(E)Amplifier	Gamewell-FCI	AM-50	1	0.08600	0.0860	2.20600	2.2060
Fiber Loop Module	Gamewell-FCI	FML-E3	1	0.05300	0.0530	0.05300	0.0530
Power Supply Module	Gamewell-FCI	PM-9	1	0.05000	0.0500	0.05000	0.0500
Smoke Detector	Gamewell-FCI	ASD-PL3	12	0.00020	0.0024	0.00200	0.0240
(E)Smoke Detector	Gamewell-FCI	ASD-PL2F	9	0.00030	0.0027	0.00650	0.0585
Heat Detector	Gamewell-FCI	ATD-L3(H)	6	0.00020	0.0012	0.00200	0.0120
(E)Heat Detector	Gamewell-FCI	ATD-L2F	1	0.00030	0.0003	0.00650	0.0065
(E)Relay Control Module	Gamewell-FCI	AOM-2RF	8	0.00038	0.0030	0.00650	0.0520
Control Module	Gamewell-FCI	AOM-2SF	2	0.00038	0.0008	0.00650	0.0130
(E)Control Module	Gamewell-FCI	AOM-2SF	2	0.00038	0.0008	0.00650	0.0130
(E)Dual Monitor Module	Gamewell-FCI	AMM-2IF	2	0.0075	0.0150	0.0057	0.0114
(E)Monitor Module	Gamewell-FCI	AMM-2F	11	0.00038	0.0041	0.00060	0.0066
(E)Monitor Module	Gamewell-FCI	AMM-4SF	7	0.00030	0.0021	0.00520	0.0364
(E)NAC Circuit - N1	---	---	1	0.00000	0.0000	2.00000	2.0000
(E)NAC Circuit - N2	---	---	1	0.00000	0.0000	2.00000	2.0000
			0	0.00000	0.0000	0.00000	0.0000
				Total:	0.5053	Total:	6.8994

Total Standby Amps =	0.505	x 24	Hours =	12.1278	Amp-Hours
Total Alarm Amps =	6.899	x 0.25	Hours = (15 minutes)	1.7249	Amp-Hours
Total Amp-Hours required after 24 hours standby and 15 minutes alarm.				13.8527	Amp-Hours
Total Battery Amp-Hours required:					
Total Amp-Hours required x 1.25 =				17.3158	Amp-Hours
Total Amp-Hours Supplied=				18.0000	Amp-Hours
Spare Capacity=				0.6842	Amp-Hours

BATTERY CALCULATIONS

PROJECT: **Mesa M.S. Sci. & SPED C.R.-'INX-1'**
Based on 24 Hour Standby

Device	Manufacturer	#	QTY	Standby Amps	Total Standby Amps	Alarm Amps	Total Alarm Amps
Inteligent Network Voice Gateway	Gamewell-FCI	INI-VGX	1	0.1500	0.150	0.1500	0.150
Amplifier Sub-assembly	Gamewell-FCI	AM-50	1	0.0860	0.086	2.2060	2.206
Fiber Loop Module	Gamewell-FCI	FML-E3	1	0.05300	0.0530	0.05300	0.0530
Dual Sync Module	Wheelock	DSM-12/24	1	0.0000	0.000	0.0500	0.050
Power Supply	Gamewell-FCI	PM9	1	0.0500	0.050	0.0500	0.050
Speaker-Weatherproof (2Watts)	Wheelock	EL4XSPK-NR	3	0.00000	0.0000	0.08300	0.2490
Speaker/Strobe-Ceiling -15cd/(.25Watts Speaker)	Wheelock	ELSPSTRC	3	0.00000	0.0000	0.03240	0.0972
Speaker/Strobe-Ceiling -75cd/(.5Watts Speaker)	Wheelock	ELSPSTRC	2	0.00000	0.0000	0.08080	0.1616
			0	0.0000	0.000	0.0000	0.000
				Total:	0.339	Total:	3.017

Total Standby Amps =	0.339	x 24	Hours =	8.136	Amp-Hours
Total Alarm Amps =	3.017	x 0.25	Hours = (15 minutes)	0.754	Amp-Hours
Total Amp-Hours required after 24 hours standby and 15 minutes alarm.				8.890	Amp-Hours
Total Battery Amp-Hours required:					
Total Amp-Hours required x 1.25 =				11.11	Amp-Hours
Total Amp-Hours Supplied=				18	Amp-Hours
Spare Capacity=				6.887	Amp-Hours

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EXPIRES: 09/30/26
THOMA #25-8026

MESA MIDDLE SCHOOL SCIENCE AND SPED CLASSROOMS

2555 S HALCYON RD, ARROYO GRANDE, CA

FIRE ALARM CALCULATIONS

NO.	REVISION	DATE
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PROJECT MANAGER
JC

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CHECKED BY JC

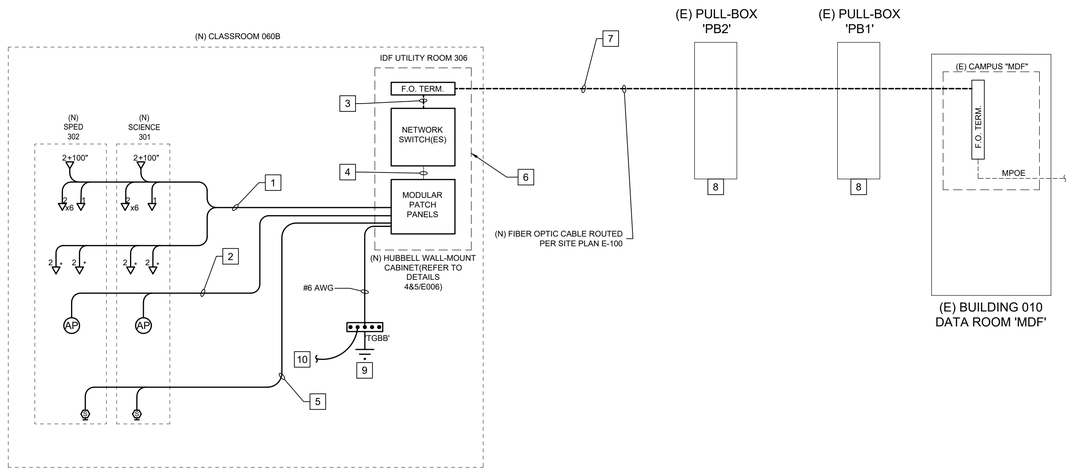
DATE
APRIL 23, 2026

PROJECT NUMBER
0822-03-ED25

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PARTIAL CAMPUS COMMUNICATIONS RISER DIAGRAM

☐ REFERENCE NOTES

1. (N) CAT6 TO EACH DATA OUTLET (QUANTITY PER RISER; BLUE JACKET).
2. (N) (2) CAT6A AT EACH CLASSROOM WAP (WHITE JACKET).
3. F.O. JUMPERS - TO MATCH CABLE PLANT (2M MAX).
4. CAT 6/6A JUMPERS - TO MACH CABLE PLANT (2M MAX).
5. (N) (1) CAT6 CABLE PER EACH SPEAKER DEVICE TERMINATED IN BISCUIT IN TRUE 5S BACKBOX ON WALL. USE WEATHERPROOF BOXES AND METHODS FOR EXTERIOR SPEAKERS. SPEAKER DEVICE SHALL BE PROVIDED BY DISTRICT AND INSTALLED BY CONTRACTOR. EC SHALL TERMINATE AND TEST BISCUIT IN PREPARATION FOR (N) DEVICE.
6. CONTRACTOR SHALL COORDINATE WITH DISTRICT IT STAFF FOR INSTALLATION AND SCHEDULING OF NEW EQUIPMENT TO BE PROVIDED BY THE IT DEPT.
7. (N) 12 STRAND SINGLE-MODE (OS2) IN A SINGLE JACKET (AQUA IN COLOR) AND PLACED IN CONDUIT (SIZES/QUANTITIES PER SITE PLAN). ALL STRANDS SHALL BE TERMINATED IN FIBER SPLICE ENCLOSURES AT EACH END OF THE CABLE INSTALLATION. ALL CABLING BETWEEN EXISTING CAMPUS MDF AND NEW BUILDING IDFS SHALL BE UNDERGROUND/WET LOCATION LISTED. VERIFY CABLE TYPES WITH DISTRICT PRIOR TO SUBMITTALS. REFER TO ELECTRICAL SITE PLANS FOR ROUTING.
8. REFER TO ELECTRICAL SITE PLAN FOR LOCATION.
9. (N) WALL MOUNTED TELECOMMUNICATIONS GROUND BUS BAR PER DETAIL 3/E0.06.
10. (N) THWN, GREEN JACKETED GROUND CONDUCTOR BETWEEN TELECOMMUNICATIONS ROOM GROUND BUS BAR AND BUILDING MAIN ELECTRICAL PANEL EQUIPMENT GROUND BUS ROUTE IN (N) 1" CONDUIT.

GENERAL NOTES

A. CATEGORY CABLING, MODULAR JACKS, AND PATCH CABLES SHALL MATCH COLOR OF (N) CABLE PLANT AS FOLLOWS:
   - CAT6 = BLUE IN COLOR.
   - CAT6A = WHITE IN COLOR.

B. 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" PRIOR TO ROUGH-IN INSPECTION.

C. CAT6 AND CAT6A CABLES SHOWN AS ROUTED UNDERGROUND BETWEEN BUILDINGS SHALL BE OUTDOOR PLANT RATED AS SHOWN.

D. EC SHALL PROVIDE 10' SERVICE LOOP AT EACH (E) AND (N) PULL-BOX FOR CABLE SHOWN AS (N).

E. DISTRICT TO PROVIDE VOIP (VOICE OVER INTERNET PROTOCOL) PHONE HAND SETS AT EACH NEW CLASSROOM.

F. CABLING TYPES SHALL BE SUITABLE AND RATED FOR THE APPLICATION INSTALLED (PLENUM, UNDERGROUND, ETC.).

G. ALL FIBER OPTIC CABLES SHALL BE FUSION SPLICED TO PRE-TERMINATED/POLISHED PIG-TAILS IN APPROVED FIBER SPLICE ENCLOSURES AND SPLICE TRAYS.

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DSA BACK CHECK 2

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2555 S HALCYON RD, ARROYO GRANDE, CA
COMMUNICATIONS RISER DIAGRAM

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PROJECT MANAGER: JC
DRAWN BY: AV
CHECKED BY: JC
DATE: APRIL 23, 2026
PROJECT NUMBER: 0822-03-ED25
SHEET: E401

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