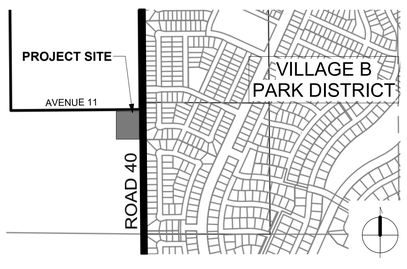
Riverstone Fire Station

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

GENERAL NOTES

1. APPLICABLE CODES AND STANDARDS:
1.1. 2019 CALIFORNIA BUILDING CODE AND ITS APPENDICES AND STANDARDS.
1.2. 2019 CALIFORNIA PLUMBING CODE AND ITS APPENDICES AND STANDARDS.
1.3. 2019 CALIFORNIA MECHANICAL CODE AND ITS APPENDICES AND STANDARDS.
1.4. 2019 CALIFORNIA FIRE CODE AND ITS APPENDICES AND STANDARDS.
1.5. 2019 CALIFORNIA ELECTRICAL CODE AND ITS APPENDICES AND STANDARDS.
1.6. 2019 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS.
1.7 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE AND ITS APPENDICIES AND STANDARDS.
1.8 CURRENT LOCAL ORDINANCES FOR THE COUNTY OF MADERA
2. 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 SO, HE/SHE SHALL BE PRECEDING AT HIS/HER OWN RISK.
4. DIMENSIONS SHOWN SHALL TAKE PRECEDENCE OVER DRAWING SCALE OR PROPORTION. LARGER SCALE DRAWINGS SHALL TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.
5. IN THE EVENT OF THE UNFORESEEN ENCOUNTER OF MATERIALS SUSPECTED TO BE OF AN ARCHAEOLOGICAL OR PALEONTOLOGICAL NATURE, ALL GRADING AND EXCAVATION SHALL CEASE IN THE IMMEDIATE AREA AND THE THE CONTRACTOR SHALL NOTIFY THE OWNER. THE FIND SHALL BE LEFT UNTOUCHED UNTIL AN EVALUATION BY A QUALIFIED ARCHAEOLOGIST OR PALEONTOLOGIST IS MADE.
6. CONTRACTOR IS TO BE RESPONSIBLE FOR BEING FAMILIAR WITH THESE DOCUMENTS INCLUDING ALL CONTRACT REQUIREMENTS.
7. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
8. FIRE SPRINKLER SHOP DRAWINGS & CALCULATIONS SHALL BE SUBMITTED TO BUILDING DEPT. & APPROVED BY FIRE DEPT. PRIOR TO INSTALLATION.
9. SHOP WELDS MUST BE PERFORMEDBY A LICENSED FABRICATOR'S SHOP.
10 ITEMS SHOWN ON THE DRAWINGS NOTED AS OWNER PROVIDED, OWNER INSTALLED SHALL HAVE UTILITIES PROVIDED NOTED AS BY THE CONTRACTOR. CONTRACTOR TO COORDINATE INSTALLATION WITH OWNER.
11. OSHA PERMITS REQUIRED FOR VERTICAL CUTS 5' OR OVER.
12 CONTRACTOR TO PROVIDE COMPLETE DETAILS OF ENGINEERED TEMPORARY SHORING OR SLOT CUTTING PROCEDURES ON PLANS. CALL FOR INSPECTION BEFORE EXCAVATION BEGINS.
13 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.
14 CONTRACTOR TO REVIEW CALIFORNIA GREEN CODE REQUIREMENTS FOR CONTRACTOR REQUIREMENTS.
15 A SEPERATE OFFICER, ACCESS EASEMENT/AGREEMENT, AND/OR RECIPRICAL ACCESS EASEMENT/AGREEMENT MAY BE REQUIRED TO INSURE THAT THE PROPOSED PRIVATE ACCESS ROADWAY WILL REMAIN OPEN TO THROUGH TRAFFIC AND EMERGENCY VEHICLES PRIOR TO FINAL OF BUILDING PERMIT.
16 PROVIDE FIRE ALARM SYSTEM. FIRE ALARM SYSTEM SHALL ACTIVATE UPON FIRE SPRINKLER SYSTEM OPERATION

VICINITY MAP



PROJECT DIRECTORY

CLIENT:
COUNTY OF MADERA
ADDRESS:
200 W. 4TH STREET
MADERA, CA 93637
PHONE (559) 675-7703 **FAX:** (559) 237-7075
CONTACT JORGE MENDOZA
EMAIL: JORGE.MENDOZA@MADERACOUNTY.COM

ARCHITECT:
RRM DESIGN GROUP
ADDRESS:
3765 S. HIGUERA STREET, SUITE 102
SAN LUIS OBISPO, CA 93401
PHONE (805) 543-1794 **FAX:** (805) 543-4609
CONTACT MIKE SCOTT
EMAIL: MLSCOTT@RRMDESIGN.COM

CIVIL ENGINEER:
PRECISION ENGINEERING
ADDRESS:
1234 O STREET
FRESNO, CA 93721
PHONE (559) 449-4500 **FAX:**
CONTACT CRAIG ROBERTS
EMAIL: CROBERTS@PRECISIONENG.NET

LANDSCAPE ARCHITECT:
BROUSSARD AND ASSOCIATES
ADDRESS:
389 CLOVIS AVE, SUITE 200
CLOVIS, CA 93612
PHONE (559) 325-7284 **FAX:** (559) 325-7286
CONTACT TAYLOR BROUSSARD
EMAIL: TAYLOR@BROUSSARDASSOC.COM

STRUCTURAL ENGINEER:
CORNERSTONE STRUCTURAL ENGINEERING GROUP
ADDRESS:
986 WEST ALLUVIAL AVENUE, SUITE 201
FRESNO, CA 93711
PHONE (559) 320-3200 **FAX:** (559) 320-3201
CONTACT DUSTIN LEE
EMAIL: DLEE@CSEG.COM

MECHANICAL ENGINEER:
3C ENGINEERING
ADDRESS:
1500 PALM STREET
SAN LUIS OBISPO, CA 93401
PHONE (805) 540-3363 **FAX:**
CONTACT BEN SWANSON
EMAIL: BSWANSON@3CENG.COM

PLUMBING ENGINEER:
3C ENGINEERING
ADDRESS:
1500 PALM STREET
SAN LUIS OBISPO, CA 93401
PHONE (805) 540-3363 **FAX:**
CONTACT CHRIS AUDIBERT
EMAIL: CAUDIBERT@3CENG.COM

ELECTRICAL ENGINEER:
THOMA ENGINEERING
ADDRESS:
3562 EMPLEO STREET
SAN LUIS OBISPO, CA 93401
PHONE (805) 543-3850 **FAX:** (805) 543-3829
CONTACT CHRIS JOSE
EMAIL: CJOSE@THOMAELEC.COM

AGENCIES AND UTILITIES

PLANNING DEPARTMENT:
COUNTY OF MADERA
ADDRESS:
200 W. 4TH STREET, SUITE 3100
MADERA, CA 93637
PHONE (559) 675-7821 **FAX:** (559) 675-6573
CONTACT
EMAIL:

PROJECT SUMMARY

PROJECT DESCRIPTION:

CONSTRUCTION OF A NEW FIRE STATION FOR THE COUNTY OF MADERA. WORK INCLUDES (BUT IS NOT LIMITED TO): ON SITE IMPROVEMENTS, NEW FIRE STATION BUILDING, MECHANICAL, PLUMBING, FIRE PROTECTION & ALARM, VEHICLE EXHAUST, EMERGENCY GENERATOR, COMMUNICATIONS, AND ELECTRICAL SYSTEMS, OFF SITE IMPROVEMENTS AS PART OF CONTRACT INCLUDES, BUT IS NOT LIMITED TO: NEW CURB CUTS, NEW SEWER LATERAL TO EDGE OF GUTTER, NEW GAS CONNECTIONS AND NEW ELECTRICAL CONDUIT STUBBED TO EDGE OF GUTTER.

PROJECT DATA:

APN: 049-051-005, 049-052-005

ZONING:

STREET ADDRESS: NORTHWEST CORNER OF AVE. 11 AND ROAD 40

SITE AREA:

LAND USE: FIRE STATION

PROPOSED BUILDING AREA: 8,933 S.F.

OCCUPANCY: B / S2 / R2

CONSTRUCTION TYPE: VB (TABLE 601, CBC)

FIRE SPRINKLERED: YES

NUMBER OF STORIES: 1

ALLOWABLE BLDG. HEIGHT: 60' (TABLE 504.3, CBC)

ACTUAL BLDG. HEIGHT: REFER TO ELEVATIONS < 60'

ALLOWABLE AREA: 28,000 SF
(PER TABLE 506.2 TYPE VB OCCUPANCY R-2)

ACTUAL AREA: 8,933 S.F.

SUPPORTING DOCUMENTS

STRUCTURAL CALCULATIONS	
PREPARED BY:	CORNERSTONE STRUCTURAL ENGINEERING
DATE PREPARED:	
JOB NUMBER:	
TECHNICAL SPECIFICATIONS	
PREPARED BY:	RRM DESIGN GROUP
DATE PREPARED:	
JOB NUMBER:	
ENERGY COMPLIANCE	
PREPARED BY:	3C ENGINEERING
DATE PREPARED:	
JOB NUMBER:	
GEOTECHINCAL REPORT	
PREPARED BY:	KRAZAN & ASSOCIATES, INC.
DATE PREPARED:	
JOB NUMBER:	

DEFERRED SUBMITTALS

1. FIRE SPRINKLER PLANS
2. FUEL STORAGE AND DISPENSING
3. FIRE ALARMS
4. UNDERGROUND FIRE MAINS - UNDER A SEPARATE PERMIT
5. DETACHED SHADING STRUCTURES - EXERCISE ROOM AND DAYROOM
6. METAL SHADING AWNININGS

DEFERRED SUBMITTAL NOTES:
1. COPIES OF EACH DEFERRED SUBMITTAL WILL FIRST BE SUBMITTED TO THE ARCHITECT/ENGINEER-OF-RECORD, WHO WILL REVIEW THEM AND FORWARD THEM TO THE BUILDING DEPARTMENT WITH NOTATIONS INDICATING THAT THE SUBMITTALS CONFORM TO THE DESIGN OF THE BUILDING.
2. THE ENGINEER(S) RESPONSIBLE FOR THE DESIGN OF THE DEFERRED SUBMITTAL ITEMS SHALL STAMP AND SIGN THOSE DRAWINGS AND CALCULATIONS FOR WHICH THEY ARE RESPONSIBLE.

SPECIAL INSPECTIONS

1. STRUCTURAL STEEL CONSTRUCTION PER CBC 1705.2
2. REINFORCED CONCRETE CONSTRUCTION PER CBC 1705.3
3. REINFORCED MASONRY PER CBC 1705.4
4. STRUCTURAL WOOD PER CBC 1705.12.2
5. SOILS PER CBC 705.6
6. STRUCTURAL OBSERVATION PER CBC 1704.6

SHEET INDEX

GENERAL
G-001 COVER SHEET
G-002 ABBREVIATIONS & SYMBOLS
G-301 CAL GREEN REQUIREMENTS
G-302 CAL GREEN REQUIREMENTS
G-401 CODE ANALYSIS

CIVIL
C-1 CIVIL - GENERAL
C-2 GRADING PLAN
C-3 UTILITY PLAN
C-4 CROSS SECTIONS

LANDSCAPE
LC-1 CONTRUCTION PLAN
LC-2 CONSTRUCTION DETAILS
LC-3 CONSTRUCTION DETAILS
LC-4 CONSTRUCTION DETAILS
LP-1 PLANTING PLAN
LI-1 IRRIGATION PLAN
LI-2 IRRIGATION DETAILS
LL-1 LANDSCAPE LIGHTING PLAN

ARCHITECTURAL
AS101 ARCHITECTURAL SITE PLAN
AS102 ENLARGED SITE PLANS
A-101 ARCHITECTURAL FLOOR PLAN
A-102 ARCHITECTURAL DIMENSION PLAN
A-111 ROOF PLAN
A-121 REFLECTED CEILING PLAN
A-131 FINISH PLAN
A-132 FURNITURE AND SIGNAGE PLAN
A-141 SLAB PLAN
A-201 EXTERIOR ELEVATIONS
A-202 EXTERIOR ELEVATIONS
A-203 EXTERIOR ELEVATIONS
A-204 EXTERIOR ELEVATIONS
A-301 BUILDING SECTIONS
A-310 WALL SECTIONS
A-311 WALL SECTIONS
A-401 ENLARGED FLOOR PLANS
A-411 INTERIOR ELEVATIONS
A-412 INTERIOR ELEVATIONS
A-413 INTERIOR ELEVATIONS
A-414 INTERIOR ELEVATIONS
A-415 INTERIOR ELEVATIONS
A-416 INTERIOR ELEVATIONS
A-417 INTERIOR ELEVATIONS
A-418 INTERIOR ELEVATIONS
A-419 INTERIOR ELEVATIONS
A-501 DOOR & WINDOW SCHEDULE
A-901 ACCESSIBILITY DETAILS
A-902 ACCESSIBILITY DETAILS
A-903 ACCESSIBILITY DETAILS
A-910 ASSEMBLIES
A-911 EXTERIOR DETAILS
A-912 EXTERIOR DETAILS
A-913 EXTERIOR DETAILS
A-914 EXTERIOR DETAILS
A-915 EXTERIOR DETAILS
A-920 DOOR AND WINDOW DETAILS
A-921 DOOR AND WINDOW DETAILS
A-930 INTERIOR DETAILS
A-931 INTERIOR DETAILS
A-932 SUSPENDED CEILING DETAILS
A-933 SUSPENDED CEILING DETAILS
AS901 SITE DETAILS
AS902 SITE DETAILS

STRUCTURAL
S0.01 MATERIALS SPECIFICATION ANDPROJECT INFORMATION
S0.02 TESTING AND SPECIAL INSPECTIONS
S1.01 TYPICAL DETAILS No. 1
S1.02 TYPICAL DETAILS No. 2
S1.03 TYPICAL DETAILS No. 3
S1.04 TYPICAL DETAILS No. 4
S1.05 TYPICAL DETAILS No. 5
S1.06 TYPICAL DETAILS No. 6
S1.07 TYPICAL DETAILS No. 7
S2.01 FOUNDATION PLAN
S2.02 LOW ROOF FRAMING PLAN
S2.03 HIGH ROOF FRAMING PLAN
S3.01 WALL ELEVATIONS No. 1
S3.02 WALL ELEVATIONS No. 2
S3.03 WALL ELEVATIONS No. 3
S4.01 FOUNDATION DETAILS
S5.01 FRAMING DETAILS No.1
S5.02 FRAMING DETAILS No .2
S5.03 FRAMING DETAILS No. 3
S5.04 FRAMING DETAILS No. 4
S5.05 FRAMING DETAILS No. 5

MECHANICAL
M-000 MECHANICAL GENERAL
M-001 MECHANICAL SCHEDULES
M-002 MECHANICAL SCHEDULES
M-003 MECHANICAL DETAILS
M-004 MECHANICAL DETAILS
M-005 MECHANICAL DETAILS
M-006 MECHANICAL DETAILS
M-007 HPC-1,2 WIRING AND PIPING SCHEMATIC DIAGRAMS
M-200 MECHANICAL FLOOR PLANS
M-201 MECHANICAL ENLARGED FLOOR PLANS
M-210 MECHANICAL PIPING FLOOR PLAN
M-300 MECHANICAL ROOF PLANS
M-310 MECHANICAL PIPING ROOF PLAN
T-240 ENERGY COMPLIANCE DOCUMENTATION
T-241 ENERGY COMPLIANCE DOCUMENTATION

PLUMBING
P-000 GENERAL
P-001 SCHEDULES
P-002 DETAILS
P-003 DETAILS
P-100 SITE PLAN
P-200 FLOOR PLAN
P-201 ENLARGED FLOOR PLAN - WASTE & VENT
P-202 ENLARGED FLOOR PLAN - WATER & GAS
P-203 ENLARGED FLOOR PLANS
P-300 ROOF PLAN

ELECTRICAL
E001 ELECTRICAL GENERAL NOTES
E002 ELECTRICAL LEGEND AND ABBREVIATIONS
E003 FIXTURE SCHEDULES
E004 PANEL SCHEDULES
E005 ELECTRICAL SINGLE LINE DIAGRAM
ES101 ELECTRICAL SITE PLAN
ES102 ENLARGED PARTIAL SITE PLAN
E-101 LIGHTING FLOOR PLAN
E-111 POWER FLOOR PLAN
E-112 ENLARGED ELECTRICAL FLOOR PLANS
E-121 COMMUNICATION FLOOR PLAN
E-131 ELECTRICAL ROOF PLAN
E-132 MEP CONNECTION FLOOR PLAN
E-141 FIRE STATION ALERTING SYSTEM (FSAS) FLOOR PLAN
E-142 FIRE STATION ALERTING SYSTEM (FSAS) FLOOR PLAN
E-143 FIRE STATION ALERTING SYSTEM (FSAS) FLOOR PLAN
E-201 ELECTRICAL DETAILS
E-202 ELECTRICAL DETAILS
E-203 ELECTRICAL DETAILS
E-204 ELECTRICAL DETAILS
E-205 ELECTRICAL DETAILS
E-206 ELECTRICAL DETAILS
E-207 ELECTRICAL DETAILS
E-301 INTERIOR LIGHTING ENERGY COMPLIANCE FORMS
E-302 EXTERIOR LIGHTING ENERGY COMPLIANCE FORMS
E-303 POWER SYSTEM DISTRIBUTION ENERGY COMPLIANCE FORMS

SHEET COUNT: 133

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMISSION OR DISTRIBUTION OF THESE DOCUMENTS TO MEET OFFICIAL REGULATORY REQUIREMENTS OR FOR OTHER PURPOSES IN CONNECTION WITH THIS PROJECT SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

COVER SHEET

NO.	REVISION	DATE

PROJECT MANAGER
MLS
DRAWN BY
CW
CHECKED BY
MLS
DATE
MAY 4, 2026
PROJECT NUMBER
2471-01-CI21
SHEET
G-001

BID DOCUMENTS

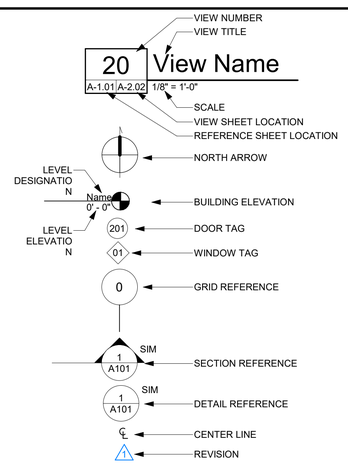
Approved for issuance by the County of Madera – CFD Building and Fire Safety Division under the 2022 California Building Code and applicable local ordinances, not to be used without signature. Date 05/04/2026

4/30/2026 3:48:31 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt

ABBREVIATIONS

A	ABV	ABOVE
A	ACOUS	ACOUSTICAL
A	ACT	ACOUSTICAL CEILING TILE
A	AD	AREA DRAIN
A	ADJ	ADJUSTABLE
A	AFF	ABOVE FINISH FLOOR
A	ALT	ALTERNATE
A	ALUM	ALUMINUM
A	APPROX	APPROXIMATE
A	ARCH	ARCHITECT
B	B.O.	BOTTOM OF
B	BALC	BALCONY
B	BD	BOARD
B	BET	BETWEEN
B	BLDG	BUILDNG
B	BLKG	BLOCKING
B	BLW	BELOW
B	BM	BEAM
B	BOT	BOTTOM
B	BRKT	BRACKET
B	BULKHD	BULKHEAD
B	BUR	BUILT UP ROOF
C	C.G.	CORNER GUARD
C	CAB	CABINET
C	CALK	CAULKING
C	CEM	CEMENT
C	CER	CERAMIC
C	CJ	CONTROL JOINT
C	CLG	CEILING
C	CLOS	CLOSET
C	CLR	CLEAR
C	CMU	CONCRETE MASONRY UNIT
C	CO	CASED OPENING
C	COL	COLUMN
C	CONC	CONCRETE
C	CONT	CONTINUOUS
C	CPT	CARPET
C	CT	CERAMIC TILE
C	CTR	CENTER
D	DBL	DOUBLE
D	DET	DETAIL
D	DIA	DIAMETER
D	DIM	DIMENSION
D	DN	DOWN
D	DR	DOOR
D	DS	DOWN SPOUT
D	DW	DISHWASHER
D	DWG	DRAWING
E	E	EAST
E	EA	EACH
E	EIFS	EXTERIOR INSULATION & FINISH SYSTEM
E	ELEC	ELECTRIC
E	ELEV	ELEVATION
E	EMER	EMERGENCY
E	ENCL	ENCLOSURE
E	EOS	EDGE OF SLAB
E	EQ	EQUAL
E	EQUIP	EQUIPMENT
E	ETR	EXISTING TO REMAIN
E	EW	EACH WAY
E	EXP. JT.	EXPANSION JOINT
E	EXST	EXISTING
F	F.O.	FACE OF
F	FA	FIRE ALARM
F	FAP	FIRE ANNUNCIATOR PANEL
F	FD	FLOOR DRAIN
F	FE	FIRE EXTINGUISHER
F	FEC	FIRE EXTINGUISHER PANEL
F	FG	FINISH GROUP
F	FH	FIRE HYDRANT
F	FHC	FIRE HOSE CABINET
F	FIN	FINISH
F	FLR	FLOOR
F	FLUOR	FLOURESCENT
F	FT	FOOT OR FEET
F	FUR	FURRING
G	GAL	GALLON
G	GALV	GALVANIZED
G	GB	GRAB BAR
G	GC	GENERAL CONTRACTOR
G	GL	GLASS
G	GND	GROUND
G	GWB	GYPSUM BOARD
G	GYP	GYPSUM
H	H.W.H.	HOT WATER HEATER
H	HDWD	HARDWOOD
H	HDWR	HARDWARE
H	HM	HOLLOW METAL
H	HORIZ	HORIZONTAL
H	HR	HOUR
H	HT	HEIGHT
I	ID	INNER DIAMETER
I	INCAN	INCANDESCENT
I	INSUL	INSULATION
I	INT	INTERIOR
J	JAN	JANITOR
J	JST	JOIST
J	JT	JOINT
L	LAM	LAMINATE
L	LAV	LAVATORY
L	LB(S)	POUNDS
L	LDG	LANDING
L	LT	LIGHT
M	MAX	MAXIMUM
M	MECH	MECHANICAL
M	MEMB	MEMBRANE
M	MFR	MANUFACTURER
M	MIN	MINIMUM
M	MISC	MISCELLANEOUS
M	MO	MASONRY OPENING
M	MTD	MOUNTED
M	MTL	METAL
N	N	NORTH
N	NIC	NOT IN CONTRACT
N	NO	NUMBER
N	NOM	NOMINAL
N	NTS	NOT TO SCALE
O	O.P.	OVERFLOW PIPE
O	OA	OVERALL
O	OC	ON CENTER
O	OD	OUTSIDE DIAMETER
O	OFF	OFFICE
O	OH	OPPOSITE HAND
O	OPG	OPENING
O	OPP	OPPOSITE
P	PART	PARTITION
P	PERM	PERIMETER
P	PG	PAINT GRADE
P	PLAM	PLASTIC LAMINATE
P	PLAS	PLASTER
P	PLYWD	PLYWOOD
P	PR	PAIR
P	PT	PAINT
P	PTD	PAINTED
R	R	RISER
R	RAD	RADIUS
R	RCP	REFLECTED CEILING PLAN
R	RD	ROOF DRAIN
R	RE	REFER
R	REF	REFRIGERATOR
R	REINF	REINFORCED
R	REQD	REQUIRED
R	RESIL	RESILIENT
R	RM	ROOM
S	RO	ROUGH OPENING
S	RTU	ROOF TOP UNIT (MECH)
S	S	SOUTH
S	SAFB	SOUND ATTENUATION FIBER BATT
S	SC	SCUPPER
S	SCHED	SCHEDULE
S	SEAL	SEALANT
S	SECT	SECTION
S	SF	SQUARE FOOT
S	SHT	SHEET
S	SIM	SIMILAR
S	SPEC	SPECIFICATION
S	SQ	SQUIRE
S	SS	STAINLESS STEEL
S	STD	STANDARD
S	STL	STEEL
S	STOR	STORAGE
S	STRUCT	STRUCTURAL
S	SUSP	SUPSPENDED
S	SYM	SYMMMETRICAL
T	T	TREAD
T	T&G	TONGUE & GROOVE
T	TEL	TELEPHONE
T	TER	TERRAZZO
T	THK	THICK
T	THR	THRESHOLD
T	TO	TOP OF
T	TYP	TYPICAL
U	UC	UNDERCUT
U	UNFIN	UNFINISHED
U	UNO	ULNESS NOTED OTHERWISE
U	UON	UNLESS OTHERWISE NOTED
U	UTIL	UTILITY
V	VCT	VINYL COMPOSITION TILE
V	VERT	VERTICAL
V	VIF	VERIFY IN FIELD
V	VTR	VENT TERMINATION PIPE
V	VWC	VINYL WALL COVERING
W	W	WEST
W	W/	WITH
W	W/O	WITHOUT
W	WC	WATERCLOSET
W	WIN	WINDOW
W	WP	WATERPROOF
W	WS	WETSTACK
W	WSCT	WAINSCOT
W	WT	WEIGHT

SYMBOLS



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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. PUBLICATION OF THESE DRAWINGS SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

ABBREVIATIONS & SYMBOLS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER
MLS
DRAWN BY | **CHECKED BY**
MLS | CW
DATE
MAY 4 2026
PROJECT NUMBER
2471-01-CI21
SHEET
G-002

County of Madera – CFD Building Division
Plans Approved Under the 2022 California Building and Fire Safety Codes and Ordinances, not valid without signature
Date 05/04/2026

4/30/2026 3:48:31 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt

ADMINISTRATION

SECTION 101 - GENERAL

101.1 TITLE. THESE REGULATIONS SHALL BE KNOWN AS THE CALIFORNIA GREEN BUILDING STANDARDS CODE AND MAY BE CITED AS SUCH AND WILL BE REFERRED TO HEREIN AS "THIS CODE." IT IS INTENDED THAT IT SHALL ALSO BE KNOWN AS THE CALGREEN CODE. THE CALIFORNIA GREEN BUILDING STANDARDS CODE IS PART 11 OF TWELVE PARTS OF THE OFFICIAL COMPILATION AND PUBLICATION OF THE ADOPTION, AMENDMENT AND REPEAL OF BUILDING REGULATIONS TO THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, ALSO REFERRED TO AS THE CALIFORNIA BUILDING STANDARDS CODE.

101.2 PURPOSE. THE PURPOSE OF THIS CODE IS TO IMPROVE PUBLIC HEALTH, SAFETY AND GENERAL WELFARE BY ENHANCING THE DESIGN AND CONSTRUCTION OF BUILDINGS THROUGH THE USE OF BUILDING CONCEPTS HAVING A REDUCED NEGATIVE IMPACT OR POSITIVE ENVIRONMENTAL IMPACT AND ENCOURAGING SUSTAINABLE CONSTRUCTION PRACTICES IN THE FOLLOWING CATEGORIES:

1. PLANNING AND DESIGN
2. ENERGY EFFICIENCY
3. WATER EFFICIENCY AND CONSERVATION
4. MATERIAL CONSERVATION AND RESOURCE EFFICIENCY
5. ENVIRONMENTAL QUALITY

101.3 SCOPE. THE PROVISIONS OF THIS CODE SHALL APPLY TO THE PLANNING, DESIGN, OPERATION, CONSTRUCTION, USE AND OCCUPANCY OF EVERY NEWLY CONSTRUCTED BUILDING OR STRUCTURE, UNLESS OTHERWISE INDICATED IN THIS CODE, THROUGHOUT THE STATE OF CALIFORNIA.

IT IS NOT THE INTENT THAT THIS CODE SUBSTITUTE OR BE IDENTIFIED AS MEETING THE CERTIFICATION REQUIREMENTS OF ANY GREEN BUILDING PROGRAM.

SECTION 102 - CONSTRUCTION DOCUMENTS & INSTALLATION VERIFICATION

102.1 SUBMITTAL DOCUMENTS. CONSTRUCTION DOCUMENTS AND OTHER DATA SHALL BE SUBMITTED IN ONE OR MORE SETS WITH EACH APPLICATION FOR A PERMIT. WHERE SPECIAL CONDITIONS EXIST, THE ENFORCING AGENCY IS AUTHORIZED TO REQUIRE ADDITIONAL CONSTRUCTION DOCUMENTS TO BE PREPARED BY A LICENSED DESIGN PROFESSIONAL AND MAY BE SUBMITTED SEPARATELY.

EXCEPTION: THE ENFORCING AGENCY IS AUTHORIZED TO WAIVE THE SUBMISSION OF CONSTRUCTION DOCUMENTS AND OTHER DATA NOT REQUIRED TO BE PREPARED BY A LICENSED DESIGN PROFESSIONAL.

102.2 INFORMATION ON CONSTRUCTION DOCUMENTS. CONSTRUCTION DOCUMENTS SHALL BE OF SUFFICIENT CLARITY TO INDICATE THE LOCATION, NATURE AND SCOPE OF THE PROPOSED GREEN BUILDING FEATURE AND SHOW THAT IT WILL CONFORM TO THE PROVISIONS OF THIS CODE, THE CALIFORNIA BUILDING STANDARDS CODE AND OTHER RELEVANT LAWS, ORDINANCES, RULES AND REGULATIONS AS DETERMINED BY THE ENFORCING AGENCY.

102.3 VERIFICATION. DOCUMENTATION OF CONFORMANCE FOR APPLICABLE GREEN BUILDING MEASURES SHALL BE PROVIDED TO THE ENFORCING AGENCY. ALTERNATE METHODS OF DOCUMENTATION SHALL BE ACCEPTABLE WHEN THE ENFORCING AGENCY FINDS THAT THE PROPOSED ALTERNATE DOCUMENTATION IS SATISFACTORY TO DEMONSTRATE SUBSTANTIAL CONFORMANCE WITH THE INTENT OF THE PROPOSED GREEN BUILDING MEASURE.

PLANNING AND DESIGN

DIVISION 5.1 – PLANNING AND DESIGN

SECTION 5.106 SITE DEVELOPMENT

5.106.1 STORM WATER POLLUTION PREVENTION PLAN. NEWLY CONSTRUCTED PROJECTS OF LESS THAN ONE ACRE OF LAND SHALL PREVENT THE POLLUTION OF STORM WATER RUNOFF FROM CONSTRUCTION THE ACTIVITIES THROUGH:

LOCAL ORDINANCES: COMPLYING WITH A LAWFULLY ENACTED STORM WATER MANAGEMENT AND OR EROSION CONTROL ORDINANCE.

BEST MANAGEMENT PRACTICES (BMP). PREVENT THE LOSS OF SOIL THROUGH WIND OR WATER EROSION BY IMPLEMENTING AN EFFECTIVE COMBINATION OF EROSION AND SEDIMENT CONTROL AND GOOD HOUSEKEEPING BMP.

-CONTRACTOR TO PROVIDE STORM WATER PREVENTION PLAN PER CAL GREEN CODE 5.106.1

5.106.4.1 SHORT-TERM BICYCLE PARKING. IF THE PROJECT IS ANTICIPATED TO GENERATE VISITOR TRAFFIC, PROVIDE PERMANENTLY ANCHORED BICYCLE RACKS WITHIN 100 FEET OF THE VISITORS' ENTRANCE, READILY VISIBLE TO PASSERS-BY, FOR 5 PERCENT OF VISITOR MOTORIZED VEHICLE PARKING CAPACITY, WITH A MINIMUM OF ONE TWO-BIKE CAPACITY RACK.

1. COVERED, LOCKABLE ENCLOSURES WITH PERMANENTLY ANCHORED RACKS FOR BICYCLES;
2. LOCKABLE BICYCLE ROOMS WITH PERMANENTLY ANCHORED RACKS; AND
3. LOCKABLE, PERMANENTLY ANCHORED BICYCLE LOCKERS.

-BICYCLE STORAGE ROOM PROVIDED IN BUILDING

5.106.5.2 DESIGNATED PARKING. PROVIDE DESIGNATED PARKING FOR ANY COMBINATION OF LOW-EMITTING, FUEL-EFFICIENT AND CARPOOL/VAN POOL VEHICLE PER TABLE 5.106.5.2 OF THE CAL GREEN CODE. PROVIDED PER SITE PLAN

5.106.8 LIGHT POLLUTION REDUCTION. 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 1-4 AS DEFINED IN CHAPTER 10 OF THE CALIFORNIA ADMINISTRATIVE CODE; AND
2. BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS AS DEFINED IN IESNA TM-15-11; AND
3. ALLOWABLE BUG RATINGS NOT EXCEEDING THOSE SHOWN IN TABLE 5.106.8, OR COMPLY WITH A LOCAL ORDINANCE LAWFULLY ENACTED PURSUANT TO SECTION 101.7, WHICHEVER IS MORE STRINGENT.

EXCEPTIONS:

1. LUMINAIRES THAT QUALIFY AS EXCEPTIONS IN SECTION 147 OF THE CALIFORNIA ENERGY CODE
2. EMERGENCY LIGHTING

-COMPLIES PER ELECTRICAL PLANS

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

-COMPLIES PER CIVIL PLANS

ENERGY EFFICIENCY

DIVISION 5.2 – ENERGY EFFICIENCY

SECTION 5.201 GENERAL

5.201.1 SCOPE [BSC]. CALIFORNIA ENERGY CODE [DSA-SS]. FOR THE PURPOSES OF MANDATORY ENERGY EFFICIENCY STANDARDS IN THIS CODE, THE CALIFORNIA ENERGY COMMISSION WILL CONTINUE TO ADOPT MANDATORY BUILDING STANDARDS. NOTE: IT IS THE INTENT OF THIS CODE TO ENCOURAGE BUILDINGS TO ACHIEVE EXEMPLARY PERFORMANCE IN THE AREA OF ENERGY EFFICIENCY. FOR THE PURPOSES OF ENERGY EFFICIENCY STANDARDS, THE CALIFORNIA ENERGY COMMISSION BELIEVES SPECIFICALLY, A GREEN BUILDING SHOULD ACHIEVE AT LEAST A 15 PERCENT REDUCTION IN ENERGY USAGE WHEN COMPARED TO THE STATE'S MANDATORY ENERGY EFFICIENCY STANDARDS.

-COMPLIES PER ELECTRICAL PLANS AND TITLE 24

WATER EFFICIENCY

DIVISION 5.3 – WATER EFFICIENCY AND CONSERVATION

SECTION 5.303 INDOOR WATER USE

5.303.1 METERS. SEPARATE SUBMETERS OR METERING DEVICES SHALL BE INSTALLED FOR THE USES DESCRIBED IN SECTIONS 5303.1.1 AND 5303.1.2.

5.303.1.1 BUILDINGS IN EXCESS OF 50,000 SQUARE FEET NOT APPLICABLE

5.303.2 TWENTY PERCENT SAVINGS. A SCHEDULE OF PLUMBING FIXTURES AND FIXTURE FITTINGS THAT WILL REDUCE THE OVERALL USE OF POTABLE WATER WITHIN THE BUILDING BY 20 PERCENT SHALL BE PROVIDED.

-PROVIDED PER PLUMBING PLANS

5.303.2.1 MULTIPLE SHOWERHEADS SERVING ONE SHOWER. NOT APPLICABLE.

5.303.4 WASTEWATER REDUCTION. EACH BUILDING SHALL REDUCE BY 20 PERCENT WASTEWATER BY ONE OF THE FOLLOWING METHODS:

1. [DSA-SS] THE INSTALLATION OF WATER-CONSERVING FIXTURES (WATER CLOSETS, URINALS) MEETING THE CRITERIA ESTABLISHED IN SECTION 5.303.2 OR
2. UTILIZING NONPOTABLE WATER SYSTEMS [CAPTURED RAINWATER, GRAYWATER, AND MUNICIPALLY TREATED WASTEWATER (RECYCLED WATER) COMPLYING WITH THE CURRENT EDITION OF THE CALIFORNIA PLUMBING CODE OR OTHER METHODS DESCRIBED IN SECTION A5.304].

-COMPLIES PER PLUMBING PLANS

5.303.6 PLUMBING FIXTURES AND FITTINGS. PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL MEET THE STANDARDS REFERENCED IN TABLE 5.503.6.

SECTION 5.304 OUTDOOR WATER USE

5.304.1 WATER BUDGET. A WATER BUDGET SHALL BE DEVELOPED FOR LANDSCAPE IRRIGATION USE THAT CONFORMS TO THE LOCAL WATER EFFICIENT LANDSCAPE ORDINANCE OR TO THE CALIFORNIA DEPARTMENT OF WATER RESOURCES MODEL WATER EFFICIENT LANDSCAPE ORDINANCE WHERE NO LOCAL ORDINANCE IS APPLICABLE.

5.304.2 OUTDOOR POTABLE WATER USE. FOR NEWWATER SERVICE FOR LANDSCAPED AREAS OF AT LEAST 1,000 SQUARE FEET BUT NOT MORE THAN 5,000 SQUARE FEET (THE LEVEL AT WHICH WATER CODE §535 APPLIES), SEPARATE SUBMETERS OR METERING DEVICES SHALL BE INSTALLED FOR OUTDOOR POTABLE WATER USE.

5.304.3 IRRIGATION DESIGN. IN NEW NONRESIDENTIAL CONSTRUCTION WITH AT LEAST 1,000 BUT NOT MORE THAN 2,500 SQUARE FEET OF LANDSCAPED AREA (THE LEVEL AT WHICH THEMLOAPPLIES), INSTALL IRRIGATION CONTROLLERS AND SENSORS WHICH INCLUDE THE FOLLOWING CRITERIA, AND MEET MANUFACTURER'S RECOMMENDATIONS.

5.304.3.1 IRRIGATION CONTROLLERS. AUTOMATIC IRRIGATION SYSTEM CONTROLLERS INSTALLED AT THE TIME OF FINAL INSPECTION SHALL COMPLY WITH THE FOLLOWING:

1. CONTROLLERS SHALL BE WEATHER- OR SOIL MOISTURE-BASED CONTROLLERS THAT AUTOMATICALLY ADJUST IRRIGATION IN RESPONSE TO CHANGES IN PLANTS' NEEDS AS WEATHER CONDITIONS CHANGE.
2. WEATHER-BASED CONTROLLERS WITHOUT INTEGRAL RAIN SENSORS OR COMMUNICATION SYSTEMS THAT ACCOUNT FOR LOCAL RAINFALL SHALL HAVE A SEPARATE WIRED OR WIRELESS RAIN SENSOR WHICH CONNECTS OR COMMUNICATES WITH THE CONTROLLER(S). SOIL MOISTURE-BASED CONTROLLERS ARE NOT REQUIRED TO HAVE RAIN SENSOR INPUT.

MATERIALS AND RESOURCES

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 1403.2 (WEATHER PROTECTION) AND CALIFORNIA ENERGY CODE SECTION 150, (MANDATORY FEATURES AND DEVICES). 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.

NOTES:

1. USE FEATURES SUCH AS OVERHANGS AND RECESSES, AND FLASHINGS INTEGRATED WITH A DRAINAGE PLANE.
2. USE NONABSORBENT FLOOR AND WALL FINISHES WITHIN AT LEAST TWO FEET AROUND AND PERPENDICULAR TO SUCH OPENINGS.

-COMPLIES PER ARCHITECTURAL PLANS

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 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 WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL BY EFFICIENT USAGE, RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE.
2. DETERMINES IF CONSTRUCTION WASTE MATERIALS WILL BE SORTED ON-SITE (SOURCE-SEPARATED) OR BULK MIXED (SINGLE STREAM).
3. IDENTIFIES DIVERSION FACILITIES WHERE CONSTRUCTION WASTE MATERIAL COLLECTED WILL BE TAKEN.
4. SPECIFIES THAT THE AMOUNT OF CONSTRUCTION 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 WASTE MATERIAL DIVERTED FROM THE LANDFILL COMPLIES WITH THIS SECTION. NOTE: THE OWNER OR CONTRACTOR SHALL MAKE THE DETERMINATION IF THE CONSTRUCTION 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, WHERE DEMOLITION OF AN EXISTING STRUCTURE(S) IS NECESSARY FOR THE CONSTRUCTION OF A NEW STRUCTURE.

5.408.1.3 WASTE STREAM REDUCTION ALTERNATIVE. THE COMBINED WEIGHT OF NEW CONSTRUCTION DISPOSAL THAT DOES NOT EXCEED 2 LBS/SQ. FT. OF BUILDING AREA MAY BE DEEMED TO MEET THE 50 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 SECTIONS 5.408.1.1 THROUGH 5.408.1.3. THE WASTE MANAGEMENT PLAN SHALL BE UPDATED AS NECESSARY AND SHALL BE ACCESSIBLE DURING CONSTRUCTION FOR EXAMINATION BY THE ENFORCING AGENCY.

NOTES:

1. SAMPLE FORMS FOUND IN "A GUIDE TO THE CALIFORNIA GREEN BUILDING STANDARDS CODE (NONRESIDENTIAL)" LOCATED AT HTTP://WWW.BSC.CA.GOV/CALGREEN/DEFAULT.HTM 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).

5.408.2 ISOLATED JOBSITES. THE ENFORCING AGENCY MAY MAKE EXCEPTIONS TO THE REQUIREMENTS OF THIS SECTION WHEN JOBSITES ARE LOCATED IN AREAS BEYOND THE HAUL BOUNDARIES OF THE DIVERSION FACILITY.

5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS [BSC]. 100 PERCENT OF TREES, STUMPS, ROCKS AND ASSOCIATED VEGETATION AND SOILS RESULTING PRIMARILY FROM LAND CLEARING SHALL BE REUSED OR RECYCLED. FOR A PHASED PROJECT, SUCH MATERIAL MAY BE STOCKPILED ON SITE UNTIL THE STORAGE SITE IS DEVELOPED.

EXCEPTION: REUSE, EITHER ON-OR OFF-SITE, OF VEGETATION OR SOIL CONTAMINATED BY DISEASE OR PEST INFESTATION.

NOTES:

1. IF CONTAMINATION BY DISEASE OR PEST INFESTATION IS SUSPECTED, CONTACT THE COUNTY AGRICULTURAL COMMISSIONER AND FOLLOW ITS DIRECTION FOR RECYCLING OR DISPOSAL OF THE MATERIAL. (WWW.CDFA.CA.GOV/EXEC/COUNTY/COUNTY_CONTACTS.HTML)

-CONTRACTOR TO COMPLY WITH CONSTRUCTION WASTE DISPOSAL AND RECYCLING PER SECTION 5.408 OF THE CALIFORNIA GREEN BUILDING CODE

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 AND METALS.

-COMPLIES PER ARCHITECTURAL PLANS

5.410.2 COMMISSIONING. FOR NEWBUILDINGS 10,000 SQUARE FEET AND OVER, BUILDING COMMISSIONING SHALL BE INCLUDED IN THE DESIGN AND CONSTRUCTION PROCESSES OF THE BUILDING PROJECT TO VERIFY THAT THE BUILDING SYSTEMS AND COMPONENTS MEET THE OWNER'S OR OWNER REPRESENTATIVE'S PROJECT REQUIREMENTS. COMMISSIONING SHALL BE PERFORMED IN ACCORDANCE WITH THIS SECTION BY TRAINED PERSONNEL WITH EXPERIENCE ON PROJECTS OF COMPARABLE SIZE AND COMPLEXITY. COMMISSIONING REQUIREMENTS SHALL INCLUDE:

1. OWNER'S OR OWNER REPRESENTATIVE'S PROJECT REQUIREMENTS
2. BASIS OF DESIGN
3. COMMISSIONING MEASURES SHOWN IN THE CONSTRUCTION DOCUMENTS
4. COMMISSIONING PLAN
5. FUNCTIONAL PERFORMANCE TESTING
6. DOCUMENTATION AND TRAINING
7. COMMISSIONING REPORT

EXCEPTIONS:

1. DRY STORAGE WAREHOUSES OF ANY SIZE
2. AREAS UNDER 10,000 SQUARE FEET USED FOR OFFICES OR OTHER CONDITIONED ACCESSORY SPACES WITHIN DRY STORAGE WAREHOUSES
3. TENANT IMPROVEMENTS UNDER 10,000 SQUARE FEET AS DESCRIBED IN SECTION 303.1.1

ALL BUILDING OPERATING SYSTEMS COVERED BY TITLE 24, PART 6, AS WELL AS PROCESS EQUIPMENT AND CONTROLS, AND RENEWABLE ENERGY SYSTEMS SHALL BE INCLUDED IN THE SCOPE OF THE COMMISSIONING REQUIREMENTS.

-OWNER TO PROVIDE COMMISSIONING AGENT

5.410.2.1 OWNER'S OR OWNER REPRESENTATIVE'S PROJECT REQUIREMENTS (OPR). THE EXPECTATIONS AND REQUIREMENTS OF THE BUILDING APPROPRIATE TO ITS PHASE SHALL BE DOCUMENTED BEFORE THE DESIGN PHASE OF THE PROJECT BEGINS. THIS DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

1. ENVIRONMENTAL AND SUSTAINABILITY GOALS
2. ENERGY EFFICIENCY GOALS
3. INDOOR ENVIRONMENTAL QUALITY REQUIREMENTS
4. PROJECT PROGRAM, INCLUDING FACILITY FUNCTIONS AND HOURS OF OPERATION, AND NEED FOR AFTER HOURS OPERATION
5. EQUIPMENT AND SYSTEMS EXPECTATIONS
6. BUILDING OCCUPANT AND OPERATION AND MAINTENANCE (O&M) PERSONNEL EXPECTATIONS

5.410.2.2 BASIS OF DESIGN (BOD). A WRITTEN EXPLANATION OF HOW THE DESIGN OF THE BUILDING SYSTEMS MEETS THE OPR SHALL BE COMPLETED AT THE DESIGN PHASE OF THE BUILDING PROJECT. THE BASIS OF DESIGN DOCUMENT SHALL COVER THE FOLLOWING SYSTEMS:

1. HEATING, VENTILATION, AIR CONDITIONING (HVAC) SYSTEMS AND CONTROLS
2. INDOOR LIGHTING SYSTEM AND CONTROLS
3. WATER HEATING SYSTEM
4. RENEWABLE ENERGY SYSTEMS
5. LANDSCAPE IRRIGATION SYSTEMS
6. WATER REUSE SYSTEMS

-INFORMATION PROVIDED IN PLANS

5.410.2.2 BASIS OF DESIGN (BOD). A WRITTEN EXPLANATION OF HOW THE DESIGN OF THE BUILDING SYSTEMS MEETS THE OPR SHALL BE COMPLETED AT THE DESIGN PHASE OF THE BUILDING PROJECT. THE BASIS OF DESIGN DOCUMENT SHALL COVER THE FOLLOWING SYSTEMS:

1. HEATING, VENTILATION, AIR CONDITIONING (HVAC) SYSTEMS AND CONTROLS
2. INDOOR LIGHTING SYSTEM AND CONTROLS
3. WATER HEATING SYSTEM
4. RENEWABLE ENERGY SYSTEMS
5. LANDSCAPE IRRIGATION SYSTEMS
6. WATER REUSE SYSTEMS

-INFORMATION PROVIDED IN PLANS

5.410.2.3 COMMISSIONING PLAN. PRIOR TO PERMIT ISSUANCE A COMMISSIONING PLAN SHALL BE COMPLETED TO DOCUMENT HOW THE PROJECT WILL BE COMMISSIONED. THE COMMISSIONING PLAN SHALL INCLUDE THE FOLLOWING:

1. GENERAL PROJECT INFORMATION
2. COMMISSIONING GOALS
3. SYSTEMS TO BE COMMISSIONED. PLANS TO TEST SYSTEMS AND COMPONENTS SHALL INCLUDE:
   A. AN EXPLANATION OF THE ORIGINAL DESIGN INTENT
   B. EQUIPMENT AND SYSTEMS TO BE TESTED, INCLUDING THE EXTENT OF TESTS
   C. FUNCTIONS TO BE TESTED
   D. CONDITIONS UNDER WHICH THE TEST SHALL BE PERFORMED
   E. MEASURABLE CRITERIA FOR ACCEPTABLE PERFORMANCE
4. COMMISSIONING TEAM INFORMATION
5. COMMISSIONING PROCESS ACTIVITIES, SCHEDULES AND RESPONSIBILITIES. PLANS FOR THE COMPLETION OF COMMISSIONING SHALL BE INCLUDED.

-OWNER TO PROVIDE COMMISSIONING AGENT

5.410.2.4 FUNCTIONAL PERFORMANCE TESTING. FUNCTIONAL PERFORMANCE TESTS SHALL DEMONSTRATE THE CORRECT INSTALLATION AND OPERATION OF EACH COMPONENT, SYSTEM AND SYSTEM TO- SYSTEM INTERFACE IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. FUNCTIONAL PERFORMANCE TESTING REPORTS SHALL CONTAIN INFORMATION ADDRESSING EACH OF THE BUILDING COMPONENTS TESTED, THE TESTING METHODS UTILIZED, AND INCLUDE ANY READINGS AND ADJUSTMENTS MADE.

5.410.2.5 DOCUMENTATION AND TRAINING. A SYSTEMS MANUAL AND SYSTEMS OPERATIONS TRAINING ARE REQUIRED, INCLUDING OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) REQUIREMENTS IN CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 8, SECTION 5142, AND OTHER RELATED REGULATIONS.

5.410.2.5.1 SYSTEMS MANUAL. DOCUMENTATION OF THE OPERATIONAL ASPECTS OF THE BUILDING SHALL BE COMPLETED WITHIN THE SYSTEMS MANUAL AND DELIVERED TO THE BUILDING OWNER OR REPRESENTATIVE. THE SYSTEMS MANUAL SHALL INCLUDE THE FOLLOWING:

1. SITE INFORMATION, INCLUDING FACILITY DESCRIPTION, HISTORY AND CURRENT REQUIREMENTS
2. SITE CONTACT INFORMATION
3. BASIC OPERATIONS AND MAINTENANCE, INCLUDING GENERAL SITE OPERATING PROCEDURES, BASIC TROUBLESHOOTING, RECOMMENDED MAINTENANCE REQUIREMENTS, SITE EVENTS LOG
4. MAJOR SYSTEMS
5. SITE EQUIPMENT INVENTORY AND MAINTENANCE NOTES
6. A COPY OF VERIFICATIONS REQUIRED BY THE ENFORCING AGENCY OR THIS CODE
7. OTHER RESOURCES AND DOCUMENTATION, IF APPLICABLE

5.410.2.5.2 SYSTEMS OPERATIONS TRAINING. A PROGRAM FOR TRAINING OF THE APPROPRIATE MAINTENANCE STAFF FOR EACH EQUIPMENT TYPE AND/OR SYSTEM SHALL BE DEVELOPED AND DOCUMENTED IN THE COMMISSIONING REPORT AND SHALL INCLUDE THE FOLLOWING:

1. SYSTEM/EQUIPMENT OVERVIEW (WHAT IT IS, WHAT IT DOES AND WITH WHAT OTHER SYSTEMS AND/OR EQUIPMENT IT INTERFACES)
2. REVIEW AND DEMONSTRATION OF SERVICING/PREVENTIVE MAINTENANCE
3. REVIEW OF THE INFORMATION IN THE SYSTEMS MANUAL
4. REVIEW OF THE RECORD DRAWINGS ON THE SYSTEM/ EQUIPMENT

-CONTRACTOR TO PROVIDE DOCUMENTATION

5.410.2.6 COMMISSIONING REPORT. A REPORT OF COMMISSIONING PROCESS ACTIVITIES UNDERTAKEN THROUGH THE DESIGN AND CONSTRUCTION PHASES OF THE BUILDING PROJECT SHALL BE COMPLETED AND PROVIDED TO THE OWNER OR REPRESENTATIVE.

5.410.4 TESTING AND ADJUSTING. TESTING AND ADJUSTING OF SYSTEMS SHALL BE REQUIRED FOR BUILDINGS LESS THAN 10,000 SQUARE FEET.

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, AS APPLICABLE TO THE PROJECT:

1. HVAC SYSTEMS AND CONTROLS
2. INDOOR AND OUTDOOR LIGHTING AND CONTROLS
3. WATER HEATING SYSTEMS
4. RENEWABLE ENERGY SYSTEMS
5. LANDSCAPE IRRIGATION SYSTEMS
6. WATER REUSE SYSTEMS

5.410.4.3 PROCEDURES. PERFORM TESTING AND ADJUSTING PROCEDURES IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND APPLICABLE STANDARDS ON EACH SYSTEM.

5.410.4.3.1 HVAC BALANCING. IN ADDITION TO TESTING AND ADJUSTING, BEFORE A NEW SPACE-CONDITIONING SYSTEM SERVING A BUILDING OR SPACE IS OPERATED FOR NORMAL USE, BALANCE THE SYSTEM IN ACCORDANCE WITH THE PROCEDURES DEFINED BY THE TESTING ADJUSTING AND BALANCING BUREAU NATIONAL STANDARDS; THE NATIONAL ENVIRONMENTAL BALANCING BUREAU PROCEDURAL STANDARDS; ASSOCIATED AIR BALANCE COUNCIL NATIONAL STANDARDS OR AS APPROVED BY THE ENFORCING AGENCY.

5.410.4.4 REPORTING. AFTER COMPLETION OF TESTING, ADJUSTING AND BALANCING, PROVIDE A FINAL REPORT OF TESTING SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.

-TESTING AND REPORTING TO BE PROVIDED BY THE COMMISSIONING AGENT

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.

-CONTRACTOR TO PROVIDE O &M MANUALS, INSPECTIONS AND REPORTS PER SECTIONS 5.410.4.5 AND 5.410.4.5.1 OF THE CALIFORNIA GREEN BUILDING CODE.

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMISSION OR DISTRIBUTION FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT — MICHAEL L. SCOTT — C31544 — 10-31-27 RENEWAL DATE — STATE OF CALIFORNIA

CONSULTANT

AGENCY

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

CAL GREEN REQUIREMENTS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: MLS
DRAWN BY: AM | CHECKED BY: CW
DATE: MAY 4 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: G-301

County of Madera – CED Building and Fire Safety
Building Division
California Building Codes and Ordinances, not valid without signature
Date: 05/04/2026

4/30/2026 3:48:32 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt

ENVIRONMENTAL QUALITY

DIVISION 5.5 – ENVIRONMENTAL QUALITY

SECTION 5.503 FIREPLACES

5.503.1 GENERAL. INSTALL ONLY A DIRECT-VENT SEALED-COMBUSTION GAS OR SEALEDWOOD-BURNING FIREPLACE, OR A SEALEDWOODSTOVE OR PELLET STOVE, AND REFER TO RESIDENTIAL REQUIREMENTS IN THE CALIFORNIA ENERGY CODE, TITLE 24, PART 6, SUBCHAPTER 7, SECTION 150. WOODSTOVES, PELLET STOVES AND FIREPLACES SHALL COMPLY WITH APPLICABLE LOCAL ORDINANCES.

5.503.1.1 WOODSTOVES. WOODSTOVES AND PELLET STOVES SHALL COMPLY WITH U.S. EPA PHASE II EMISSION LIMITS.

-NOT APPLICABLE

SECTION 5.504 POLLUTANT CONTROL

5.504.1.3 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 PERCENT BASED ON ASHRAE 52.1-1992. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY.

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, SHEETMETAL 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 5.504.4.4. REFER TO ATTACHED TABLES.

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.

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.

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
2. FIELD VERIFICATION OF ON-SITE PRODUCT CONTAINERS

5.504.4.4 CARPET SYSTEMS. ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE TESTING AND PRODUCT REQUIREMENTS OF ONE OF THE FOLLOWING:

1. CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM
2. CALIFORNIA DEPARTMENT OF PUBLIC HEALTH STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS, VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350)
3. NSF/ANSI 140 AT THE GOLD LEVEL OR HIGHER
4. SCIENTIFIC CERTIFICATIONS SYSTEMS SUSTAINABLE CHOICE

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 FOR COMPOSITE WOOD (17 CCR 93120 ET SEQ.), BY OR BEFORE THE DATES SPECIFIED IN THOSE SECTIONS, AS SHOWN IN TABLE 5.504.4.5.

5.504.4.5.3 DOCUMENTATION. VERIFICATION OF COMPLIANCE WITH THIS SECTION SHALL BE PROVIDED AS REQUESTED BY THE ENFORCING AGENCY. DOCUMENTATION SHALL INCLUDE AT LEAST ONE OF THE FOLLOWING:

1. PRODUCT CERTIFICATIONS AND SPECIFICATIONS
2. CHAIN OF CUSTODY CERTIFICATIONS
3. PRODUCT LABELED AND INVOICED AS MEETING THE COMPOSITE WOOD PRODUCTS REGULATION (SEE CCR, TITLE 17, SECTION 93120, ET SEQ)
4. EXTERIOR GRADE PRODUCTS MARKED AS MEETING THE PS-1 OR PS-2 STANDARDS OF THE ENGINEERED WOOD ASSOCIATION, THE AUSTRALIAN AS/NZS 2269 OR EUROPEAN 636 3S STANDARDS
5. OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY

5.504.4.6 RESILIENT FLOORING SYSTEMS. FOR 50 PERCENT OF FLOOR AREA RECEIVING RESILIENT FLOORING, INSTALL RESILIENT FLOORING COMPLYING WITH THE VOC-EMISSION LIMITS DEFINED IN THE 2009 COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CHPS) CRITERIA AND LISTED ON ITS HIGH PERFORMANCE PRODUCTS DATABASE; PRODUCTS COMPLIANT WITH CHPS CRITERIA CERTIFIED UNDER THE GREENGUARD CHILDREN & SCHOOLS PROGRAM; CERTIFIED UNDER THE RESILIENT FLOOR COVERING INSTITUTE (RFCI) FLOORSCORE PROGRAM; OR MEET CALIFORNIA DEPARTMENT OF PUBLIC HEALTH 2010 STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS, VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350.)

5.504.4.6.1 VERIFICATION OF COMPLIANCE. DOCUMENTATION SHALL BE PROVIDED VERIFYING THAT RESILIENT FLOORING MATERIALS MEET THE POLLUTANT EMISSION LIMITS.

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 8. MERV 8 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: A MERV-1 FILTER SHALL BE ALLOWED FOR RETURN AIR ONLY OR RETURN WITH PREFILTERED OUTSIDE AIR, IF THE FILTER IS OF A REUSABLE, NONDISPOSABLE TYPE, AND THE FAN ENERGY USE OF THAT AIR DELIVERY SYSTEM IS 0.4W/CFM OR LESS AT DESIGN AIRFLOW.

-CONTRACTOR TO COMPLY WITH POLLUTANT CONTROL REQUIREMENT PER SECTIONS 5.504 OF THE CALIFORNIA GREEN BUILDING CODE.

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. WHERE OUTDOOR AREAS ARE PROVIDED FOR SMOKING, PROHIBIT SMOKING WITHIN 25 FEET OF BUILDING ENTRIES, OUTDOOR AIR INTAKES AND OPERABLE WINDOWS AND WITHIN THE BUILDING AS ALREADY PROHIBITED BY OTHER LAWS OR REGULATIONS; OR AS ENFORCED BY ORDINANCES, REGULATIONS OR POLICIES OF ANY CITY, COUNTY, CITY AND COUNTY, CALIFORNIA COMMUNITY COLLEGE, CAMPUS OF THE CALIFORNIA STATE UNIVERSITY, OR CAMPUS OF THE UNIVERSITY OF CALIFORNIA, WHICHEVER ARE MORE STRINGENT. WHEN ORDINANCES, REGULATIONS OR POLICIES ARE NOT IN PLACE, POST SIGNAGE TO INFORM BUILDING OCCUPANTS OF THE PROHIBITIONS.

-OWNER TO PROHIBIT SMOKING TO 25 FEET AWAY FROM BUILDING

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 1203 (VENTILATION) AND CHAPTER 14 (EXTERIOR WALLS). FOR ADDITIONAL MEASURES NOT APPLICABLE TO LOW-RISE RESIDENTIAL OCCUPANCIES, SEE SECTION 5.407.2 OF THIS CODE.

-COMPLIES PER ARCHITECTURAL PLANS

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 121 (REQUIREMENTS FOR VENTILATION) OF THE 2010 CALIFORNIA ENERGY CODE, OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT, AND DIVISION 1, CHAPTER 4 OF CCR, TITLE 8.

5.506.2 CARBON DIOXIDE (CO2) MONITORING. FOR BUILDINGS EQUIPPED WITH DEMAND CONTROL VENTILATION, CO2 SENSORS AND VENTILATION CONTROLS SHALL BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2010 CALIFORNIA ENERGY CODE, SECTION 121(C).

-COMPLIES PER MECHANICAL PLANS

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.

5.507.4.1 EXTERIOR NOISE TRANSMISSION, PRESCRIPTIVE METHOD. WALL AND ROOF-CEILING ASSEMBLIES EXPOSED TO THE NOISE SOURCE MAKING UP THE BUILDING 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. LDN OR CNEL FOR MILITARY AIRPORTS SHALL BE DETERMINED BY THE FACILITY AIR INSTALLATION COMPATIBLE LAND USE ZONE (AICUZ) PLAN.
2. LDN 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 CNELOR LDN 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 DB LEQ-1-HR DURING ANY HOUR OF OPERATION SHALL HAVE 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 A5.507.4.1 OR A5.507.4.1.1, WALL AND ROOF-CEILING ASSEMBLIES EXPOSED TO THE NOISE SOURCE MAKING UP THE BUILDING ENVELOPE SHALL BE CONSTRUCTED TO PROVIDE AN INTERIOR NOISE ENVIRONMENT ATTRIBUTABLE TO EXTERIOR SOURCES THAT DOES NOT EXCEED AN HOURLY EQUIVALENT NOISE LEVEL (LEQ-1HR) OF 50 DBA IN OCCUPIED AREAS DURING ANY HOUR OF OPERATION.

5.507.4.2.1 SITE FEATURES. EXTERIOR FEATURES SUCH AS SOUND WALLS OR EARTH BERMS MAY BE UTILIZED AS APPROPRIATE TO THE PROJECT TO MITIGATE SOUND MIGRATION TO THE INTERIOR.

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.

-EXTERIOR NOT REQUIRED, NON NOISE AREA. INTERIOR COMPLIES PER ARCHITECTURAL PLANS - WALL LEGEND.

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.

-FIRE SPRINKLER CONTRACTOR TO COMPLY

VOC LIMITS

ADHESIVES

ADHESIVES-ARCHITECTURAL APPLICATIONS	VOC LIMIT G/L
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVE	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT AND ASPHALT TILE ADHESIVES	50
DRYWALL AND PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVE NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP AND TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

ARCHITECTURAL COATINGS

COATING CATEGORY	VOC LIMIT, G/L
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS1	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS AND UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS: CLEAR	730
SHELLACS: OPAQUE	550
SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB AND TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

FORMALDEHYDE

PRODUCT	CRRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.08 (0.05 JULY 1, 2012)
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	.011
THIN MEDIUM DENSITY FIBERBOARD	.021 (0.13 JAN 1, 2012)

SEALANTS

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL - POROUS	250
ARCHITECTURAL - NONPOROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMISSION OR DISTRIBUTION FOR REGULATORY APPROVAL SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

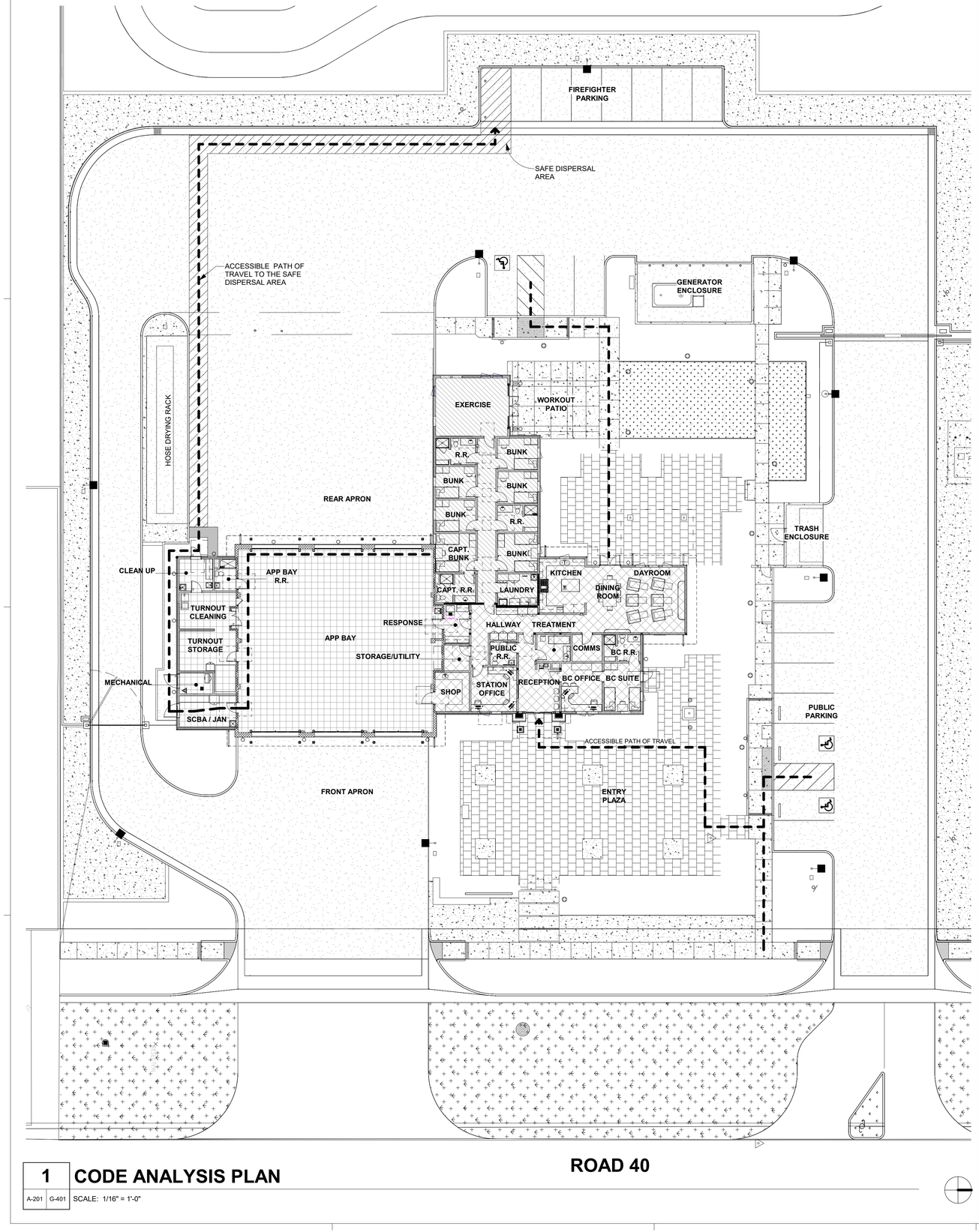
CAL GREEN REQUIREMENTS

NO.	REVISION	DATE

PROJECT MANAGER: MLS
DRAWN BY: CW
CHECKED BY: CW
DATE: MAY 4, 2026
Date: 05/04/2026
PROJECT NUMBER: 2471-01-CI21
SHEET: G-302

County of Madera – CFD Building and Fire Safety
Plans Approved Under the 2022 California Building Code
Date: 05/04/2026
Plans and attachments not valid without signature

4/30/2026 3:48:32 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt



1 CODE ANALYSIS PLAN

A-201 | G-401 SCALE: 1/16" = 1'-0"

CODE ANALYSIS

GENERAL INFORMATION AND OCCUPANCY

ACTUAL BLDG AREA	GROUND LEVEL	8,933 SF
	OCCUPANCY "R-2"	3,524 SF
	OCCUPANCY "S-2"	4,622 SF
	OCCUPANCY "B"	787 SF
	TOTAL	8,933 SF

OCCUPANCY CLASSIFICATIONS		
304.1 CIVIC ADMINISTRATION		GROUP B
310.1 DORMATORY		GROUP R-2
311.3 LOW HAZARD STORAGE		GROUP S-2
903.2 AUTOMATIC FIRE SPRINKLERS		PROVIDED

OPENING & FIRE PROTECTION, V-B SPRINKLERED

T-601	FIRE RESISTANCE RATING	0 HR
	BEARING EXT. AND INT WALLS	0 HR
	NON BEARING EXT AND INT. WALLS	0 HR
	NON BEARING INTERIOR WALLS	0 HR
	FLOOR AND ROOF CONSTRUCTION	0 HR

708.3 EX. 2 DWELLING UNIT AND SLEEPING UNIT SEPARATIONS IN BUILDINGS OF TYPE VB CONSTRUCTION SHALL HAVE NO LESS THAN 1/2 HOUR FIRE RESISTANCE RATING.

T-716.5 MINIMUM FIRE DOORS AND WINDOWS BETWEEN DWELLING UNITS AND CORRIDOR = 20 MIN

MAXIMUM TRAVEL DISTANCE

T-1017.2 MAX TRAVEL DISTANCE (R-2) 250'
(WITH SPRINKER SYSTEM)

MINIMUM REQUIRED EGRESS

T-1015.1 ONE EGRESS FROM SPACE REQUIRED < 50 OCCUPANTS

T-1006.2.1 MINIMUM NUMBER OF EXITS 2
COMMON PATH OF TRAVEL 125' MAX

ACCESSIBLE PATH OF TRAVEL NOTES:

1. WALKS AND SIDEWALKS SHALL HAVE A CONTINUOUS COMMON SURFACE, NOT INTERRUPTED BY STEPS OR ABRUPT CHANGES IN LEVEL EXCEEDING 1/2", AND SHALL BE A MIN. OF 48" IN WIDTH. WHEN CHANGES IN LEVEL DO OCCUR, THEY SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1 UNIT VERTICAL TO 2 UNITS HORIZONTAL, EXCEPT THAT LEVEL CHANGES NOT EXCEEDING 1/4" MAY BE VERTICAL.
2. WALKS SHALL BE PROVIDED WITH A LEVEL AREA NOT LESS THAN 60"X60" AT A DOOR OR GATE THAT SWINGS TOWARD THE WALK, AND NOT LESS THAN 48"X44" DEEP AT A DOOR OR GATE THAT SWINGS AWAY FROM THE WALK. SUCH WALKS SHALL EXTEND 24" TO THE SIDE OF THE STRIKE EDGE OF A DOOR OR GATE THAT SWINGS TOWARD THE WALK.
3. REFER ALSO TO ACCESSIBILITY DETAILS.

BUILDING INFORMATION

CODE INTERPRETATION		REFERENCE
OCCUPANCY:	B / R2 / S2	302.1
CONSTRUCTION TYPE:	VB	T-601
ALLOWABLE HEIGHT:	60'	T-504.3
ALLOWABLE AREA:	28,000 SF	T-506.2
ALLOWABLE STORIES:	3	T-504.4
FIRE SPRINKLER INCREASE:	NO	504.2
FIRE SPRINKLER AREA INCREASE:	NO	506.3
FIRE RESISTANCE RATING:	1/2 HOUR @ BUNKS	708.3
PROTECTED EXTERIOR OPENINGS:	NA	T-704.8
MAX TRAVEL DISTANCE:	250' SPRINKLERED	T-1017.2
COMMON PATH OF EGRESS TRAVEL:	125' MAX	T-1006.2.1
ONE EGRESS FROM SPACE REQUIRED:	PER 10 OCCUPANTS	T-1006.2.1
MINIMUM NUMBER OF EXITS:	2	1006.2.1
ACCESSIBLE EGRESS:	REFER TO PLAN	1009.1
ACCESSIBLE AREAS:	REFER TO PLAN	CBC 11B

PROPOSED PROJECT

BUILDING AREA:	8,933 SF
BUILDING HEIGHT:	<40' REFER TO ELEVATIONS
NUMBER OF STORIES:	1
AUTOMATIC FIRE SPRINKLERS:	YES

LEGEND

OCCUPANCY GROUP R-2 (SLEEPING UNIT SEPARATED FROM OTHER DWELLING UNITS OR SLEEPING UNITS AND FROM OTHER OCCUPANCIES CONTIGUOUS TO THEM IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 420. **(CBC 508.3.3, EXCEPTION 2)**

WALLS SEPARATING SLEEPING UNITS IN THE SAME BUILDING, WALLS SEPARATING DWELLING UNITS FROM SLEEPING UNITS IN THE SAME BUILDING AND WALLS SEPARATING DWELLING OR SLEEPING UNITS FROM OTHER OCCUPANCIES CONTIGUOUS TO THEM IN THE SAME BUILDING SHALL BE CONSTRUCTED AS FIRE PARTITIONS IN ACCORDANCE WITH SECTION 708. **(CBC 420.2)**

OCCUPANCY GROUP S-2

OCCUPANCY GROUP B

1 HOUR RATED CMU WALL

1/2 HOUR RATED FIRE PARTITION PER CBC 708.3, EXCEPTION 2.

WOOD STUD WALL

ACCESSIBLE PATH OF TRAVEL

OCCUPANCY CALCULATION

NO.	NAME	AREA	OCCUPANCY CLASSIFICATION	FUNCTION OF SPACE FROM CBC TABLE 1004.1.1	OCCUPANCY LOAD FACTOR	OCCUPANT LOAD	OCCUPANCY: MAXIMUM OCCUPANT LOAD FOR ONE EXIT FROM CBC TABLE 1015.1	NUMBER OF EXITS
B								
110	SHOP	118 SF	B	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	0.4	49	
113	PUBLIC R.R.	54 SF	B	(none)	0		49	
109	STORAGE/UTILITY	57 SF	B	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	0.2	49	
122	KITCHEN	218 SF	B	RESIDENTIAL	200	1.1	49	
121	DINING ROOM	165 SF	B	RESIDENTIAL	200	0.8	49	
120	DAYROOM	345 SF	B	RESIDENTIAL	200	1.7	49	
114	TREATMENT	79 SF	B	BUSINESS AREAS	150	0.5	49	
116	BC OFFICE	175 SF	B	BUSINESS AREAS	150	1.2	49	
115	RECEPTION	212 SF	B	ASSEMBLY WITHOUT FIXED SEATS: UNCONCENTRATED (TABLE AND CHAIRS)	15	14.1	49	
112	STATION OFFICE	179 SF	B	BUSINESS AREAS	150	1.2	49	
108	RESPONSE	85 SF	B	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	0.3	49	
111	HALLWAY	348 SF	B	(none)	0		49	
						21.5		
R								
124	CAPT. R.R.	93 SF	R	(none)	0		10	
123	LAUNDRY	112 SF	R	RESIDENTIAL	200	0.6	10	
119	COMMS	71 SF	R	RESIDENTIAL	200	0.4	10	
118	BC R.R.	83 SF	R	(none)	0		10	
117	BC SUITE	157 SF	R	RESIDENTIAL	200	0.8	10	
134	EXERCISE	373 SF	R	EXERCISE ROOMS	50	7.5	10	
132	BUNK	112 SF	R	RESIDENTIAL	200	0.6	10	
127	BUNK	113 SF	R	RESIDENTIAL	200	0.6	10	
130	BUNK	112 SF	R	RESIDENTIAL	200	0.6	10	
128	R.R.	92 SF	R	(none)	0		10	
125	CAPT. BUNK	137 SF	R	RESIDENTIAL	200	0.7	10	
126	BUNK	136 SF	R	RESIDENTIAL	200	0.7	10	
131	R.R.	90 SF	R	(none)	0		10	
129	BUNK	113 SF	R	RESIDENTIAL	200	0.6	10	
133	BUNK HALLWAY	265 SF	R	(none)	0		10	
						12.8		
S								
104	MECHANICAL	61 SF	S	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	0.2	29	
103	SCBA / JAN	159 SF	S	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	0.5	29	
102	HOSE STORAGE	18 SF	S	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	0.1	29	
106	CLEAN UP	94 SF	S	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	0.3	29	
107	APP BAY R.R.	56 SF	S	(none)	0		29	
101	APP BAY	3173 SF	S	PARKING GARAGES	200	15.9	29	
105A	TURNOUT CLEANING	173 SF	S	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	0.6	29	
105B	TURNOUT STORAGE	247 SF	S	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	0.8	29	
						18.4		
TOTAL OCCUPANTS						52.7		

rrm design group
rrmdesign.com | (805) 543-1794
THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SHOULD CONSTRUCTION BEGIN, IT SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT · MICHAEL L. SCOTT · C31544 · 10-31-27 RENEWAL DATE · STATE OF CALIFORNIA

CONSULTANT

AGENCY

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

CODE ANALYSIS

NO.	REVISION	DATE

PROJECT MANAGER: MLS
DRAWN BY: CW | CHECKED BY:
DATE: MAY 4, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: G-401

County of Madera – CFD Building and Fire Safety
Plans Approved Under the 2022 California Building Codes and Ordinances, not valid without Wet Signature
Date: 05/04/2026

4/30/2026 3:48:34 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt

PLANS FOR CONSTRUCTION OF:

RIVERSTONE

FIRE STATION

PROJECT ENGINEER: CRAIG ROBERTS

IN THE COUNTY OF MADERA

CONSTRUCTION NOTES:

1. AN ENCROACHMENT PERMIT IS REQUIRED FOR ANY TRAFFIC CONTROL MEASURES OR WORK WITHIN EXISTING COUNTY, OR STATE RIGHT-OF-WAY. COUNTY PERMITS MAY BE OBTAINED AT THE MADERA COUNTY PUBLIC WORKS DEPARTMENT, DEVELOPMENT AND PERMIT SECTION AT (559) 675-7811. CONTACT THE APPLICABLE PERMITS SECTION OF THE COUNTY OF MADERA OR CALTRANS FOR THE APPLICABLE PERMIT.
2. FOR TRAFFIC SIGNAL INSTALLATION OR MODIFICATION, A SEPARATE ENCROACHMENT PERMIT IS REQUIRED FROM THE COUNTY OR CALTRANS.
3. A GRADING PERMIT IS REQUIRED FROM THE MADERA COUNTY PUBLIC WORKS DEPARTMENT FOR ANY GRADING. THE CONTRACTOR SHALL CONTACT THE COUNTY BUILDING INSPECTION DIVISION AT (559) 675-7811 FOR NECESSARY PERMIT AND REQUIREMENTS. (SEE "GRADING" SECTION)
4. A BUILDING PERMIT IS REQUIRED FOR THE CONSTRUCTION OF ANY MASONRY WALL, WOOD FENCE, TRASH ENCLOSURE, RETAINING WALL, WROUGHT IRON FENCE OR ANY COMBINATION THEREOF. THE CONTRACTOR SHALL CONTACT THE COUNTY BUILDING INSPECTION DIVISION AT (559) 675-7821 FOR NECESSARY PERMIT AND REQUIREMENTS. RETAINING WALLS OR FENCES CONSTRUCTED WITHIN THE PUBLIC RIGHT OF WAY SHALL BE MASONRY CONSTRUCTION.
5. ALL EXISTING MAINS, UTILITIES, SIGNS, STRIPING, ETC., FOUND TO BE IN CONFLICT WITH THIS PLAN, WHETHER SPECIFICALLY IDENTIFIED ON THE PLANS AND PROJECT SPECIFICATIONS OR NOT, SHALL BE CONSIDERED AS PART OF THE REQUIRED WORK TO BE PERFORMED.
6. BEFORE COMMENCING WORK, THE CONTRACTOR SHALL NOTIFY ALL UTILITY AUTHORITIES OR UTILITY COMPANIES HAVING POSSIBLE INTEREST IN THE WORK OF THE CONTRACTOR'S INTENTION TO EXCAVATE PROXIMATE TO EXISTING FACILITIES. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UTILITIES IN THE WORK AREA. THE CONTRACTOR SHALL NOTIFY U.S.A. TWO (2) WORKING DAYS PRIOR TO BEGINNING ANY EXCAVATION.
7. THE CONTRACTOR SHALL NOTIFY THE MADERA COUNTY PUBLIC WORKS DEPARTMENT DEVELOPMENT AND PERMITS SECTION AT (559) 675-7811 AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO POURING SIDEWALKS, AND/OR INSTALLING ANY SIGNS, MARKINGS, STRIPING OR STENCILING SUCH AS DIRECTIONAL ARROWS, STOPS, CROSS WALKS, ETC.
8. ANY EXISTING SIGNING, STRIPING, AND STENCILING AND/OR IMPROVEMENT SHOWN ON THE PLANS TO REMAIN THAT ARE DAMAGED, DISTURBED OR FADED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED IN-KIND IN ACCORDANCE WITH THE COUNTY STANDARDS AND CALTRANS MUTCD AS DIRECTED BY THE COUNTY.
9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ALL EXISTING STRUCTURES, TREES, SHRUBS, ETC., THAT ARE ON EXISTING OR PROPOSED RIGHT-OF-WAY LINES, ENCROACHING ON EXISTING OR PROPOSED STREET RIGHT-OF-WAYS OR ENCROACHING ON EXISTING OR PROPOSED UTILITY EASEMENTS
10. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE RCWD STANDARD DRAWINGS AND SPECIFICATIONS, AND/OR ANY REFERENCED APPLICABLE SECTIONS OF THE CALTRANS STANDARD SPECIFICATIONS.
11. TRAFFIC CONTROL SHALL CONFORM TO THE LATEST VERSION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART 6, TEMPORARY TRAFFIC CONTROL. COMPLIANCE WITH THE REQUIREMENTS OF SAID MANUAL SHALL BE CONSIDERED AS A MINIMUM REQUIREMENT AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ADDITIONAL SAFETY DEVICES WHEN NECESSARY TO MAINTAIN A SAFE CONDITION.
12. AN APPROVED TRAFFIC CONTROL PLAN IS REQUIRED PRIOR TO BEGINNING CONSTRUCTION. UNLESS OTHERWISE PRESCRIBED IN THE PLAN, AS A MINIMUM ON MAJOR STREETS, AT LEAST ONE TWELVE (12) FOOT WIDE LANE IN EACH DIRECTION OF TRAVEL SHALL BE MAINTAINED AT ALL TIMES. PRIOR TO COMPLETION OF WORK EACH DAY, THE CONTRACTOR SHALL BACKFILL AND PROVIDES TEMPORARY TRENCH RESURFACING BEFORE LEAVING THE SITE.
13. ALL EXISTING UTILITY MANHOLES, VALVE BOXES, AND VAULTS SHALL BE ADJUSTED TO THE FINISHED GRADE OR NEW PAVEMENTS IN ACCORDANCE WITH THE ASSOCIATED STANDARDS AND SPECIFICATIONS. ADJUSTING RINGS ARE NOT ALLOWED.
14. PRIOR TO PLACING AGGREGATE BASE, THE SUBGRADE GRADING SHALL BE VERIFIED BY THE COUNTY TO THE SATISFACTION OF THE COUNTY INSPECTOR. CUT SHEETS SHALL BE PROVIDED TO THE COUNTY INSPECTOR.
15. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL HANDICAP RAMPS THAT ARE IN COMPLIANCE WITH AMERICANS WITH DISABILITIES ACT GUIDELINES AND REQUIREMENTS.
16. STRIPING DESIGNATED TO BE REMOVED SHALL BE REMOVED COMPLETELY AND THE SURFACE SEALED WITH A "WALKMASTER" OR OWNER-APPROVED EQUIVALENT SLURRY PRIOR TO RESTRIPING. ANY VOIDS CREATED BY GRINDING SHALL BE FILLED BY USING A TYPE "II" SLURRY AS DETERMINED BY THE COUNTY.
17. ALL STENCILING (ARROWS INCLUDED) TO BE REMOVED BY GRINDING SHALL BE DONE IN A MANNER TO PROVIDE A RECTANGULAR SHAPE ENCOMPASSING THE AREA TO BE REMOVED. NO GRINDING SHALL SHADOW THE SHAPE OF THE STENCILING TO BE REMOVED.
18. ALL CROSSWALKS TO BE INSTALLED SHALL BE THE REQUIREMENTS OF THE COUNTY STANDARDS UNLESS OTHERWISE NOTED ON THESE PLANS. PROVIDE YELLOW CROSSWALKS AT INTERSECTIONS WITHIN 600' OF ANY SCHOOL FACILITY. CROSSWALKS SHALL BE INSTALLED USING EXTRUDED TYPE ALKYD BINDER THERMOPLASTIC MATERIAL APPLIED AT A THICKNESS OF 125 MILS (+- 15 MILS). TYPE 1 GLASS BEADS SHALL BE 25-30 PERCENT OF MATERIAL BEFORE APPLICATION AND SHALL BE APPLIED TO THE EXTRUDED MATERIAL IMMEDIATELY AFTER APPLICATION.
19. TYPE OF MARKERS SHALL BE AS STATED IN SECTION 85-1.02 "TYPE OF MARKERS" OF STATE STANDARD SPECIFICATIONS AND AS SHOWN ON THE STRIPING PLAN(S). ALL PAVEMENT MARKERS AND ROAD SIGNS INSTALLED SHALL CONFIRM TO THE PROVISIONS IN THE LATEST EDITION OF THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), SECTION 85 OF STATE STANDARD SPECIFICATIONS, STATE STANDARD PLANS, PAGES A20-A THROUGH D AND PAGES A73-A THROUGH C ALONG WITH THE COUNTY STANDARD SPECIFICATIONS.
20. ALL CONCRETE MEDIAN NOSE FACES SHALL BE PAINTED FOR A DISTANCE OF THREE (3) FEET ALONG BOTH SIDES WITH REFLECTIVE YELLOW PAINT.
21. "K" MARKERS INSTALLED ON MEDIAN NOSES SHALL BE PLACED 3'-5' BACK FROM THE NOSE CURB FACE. WHERE PEDESTRIAN PUSH BUTTON POLES ARE TO BE PLACED ON MEDIAN NOSES, INSTALL THE "K" MARKER ON THE PUSH BUTTON POLE.
22. STREET SIGN INSTALLATION ON METAL STREET LIGHT OR SIGNAL POLES SHALL REQUIRE THE USE OF STAINLESS STEEL BANDING MATERIAL. NO HOSE CLAMPS ARE ALLOWED.
23. WHERE SIGNS ARE TO BE INSTALLED, LIGHT POLES SHOULD BE USED, IN LIEU OF POSTS, WHENEVER POSSIBLE. WOOD AND ROUND PIPE POSTS ARE NOT ALLOWED. GALVANIZED "I" CHANNEL OR SQUARE 2"X2"X14" GAGE GALVANIZED POSTS ARE TO BE USED. SIGNS SHOULD BE INSTALLED AT A HEIGHT OF TEN (10) FEET AND SHALL BE A MINIMUM OF SEVEN (7) FEET ABOVE THE FINISHED GRADE.
24. ALL SEWER, WATER, AND STORM DRAIN FACILITIES ARE TO BE CONSTRUCTED TO ROOT CREEK WATER DISTRICT STANDARDS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF THESE STANDARDS.

ROOT CREEK WATER DISTRICT NOTES:

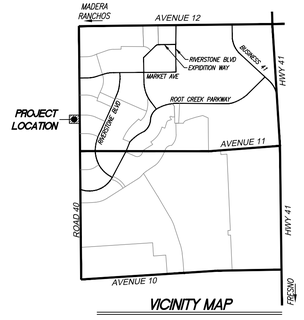
1. ALL SEWER, WATER, AND STORM DRAIN FACILITIES ARE TO BE CONSTRUCTED TO ROOT CREEK WATER DISTRICT STANDARDS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF THESE STANDARDS.

MITIGATION NOTES:

1. IF ANY PREHISTORIC OR HISTORIC SUBSURFACE CULTURAL RESOURCES ARE DISCOVERED DURING GROUND-DISTURBING ACTIVITIES, ALL WORK WITHIN 50 FEET OF THE RESOURCES SHALL BE HALTED AND THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY AND THE OWNER. THE COUNTY SHALL CONSULT WITH A QUALIFIED ARCHAEOLOGIST TO ASSESS THE SIGNIFICANCE OF THE FIND ACCORDING TO CEQA GUIDELINES SECTION 15064.5. THE OWNER SHALL BE RESPONSIBLE FOR THE COSTS OF OBTAINING THE ARCHAEOLOGIST. IF ANY FIND IS DETERMINED TO BE SIGNIFICANT, THE COUNTY AND THE ARCHAEOLOGIST SHALL MEET TO DETERMINE THE APPROPRIATE AVOIDANCE MEASURES OR OTHER APPROPRIATE MITIGATION. THE COUNTY SHALL MAKE THE FINAL DETERMINATION. ALL SIGNIFICANT CULTURAL MATERIALS RECOVERED SHALL BE, AS NECESSARY AND AT THE DISCRETION OF THE CONSULTING ARCHAEOLOGIST, SUBJECT TO SCIENTIFIC ANALYSIS, PROFESSIONAL MUSEUM CURATION, AND DOCUMENTATION ACCORDING TO CURRENT PROFESSIONAL STANDARDS.

   IN CONSIDERING ANY SUGGESTED MITIGATION PROPOSED BY THE CONSULTING ARCHAEOLOGIST IN ORDER TO MITIGATE IMPACTS TO HISTORICAL RESOURCES OR UNIQUE ARCHAEOLOGICAL RESOURCES, THE COUNTY SHALL DETERMINE WHETHER AVOIDANCE IS NECESSARY AND FEASIBLE IN LIGHT OF FACTORS SUCH AS THE NATURE OF THE FIND, PROJECT DESIGN, COSTS, AND OTHER CONSIDERATIONS. IF AVOIDANCE IS INFEASIBLE, OTHER APPROPRIATE MEASURES (E.G., DATA RECOVERY) SHALL BE INSTITUTED. WORK MAY PROCEED ON OTHER PARTS OF THE PROJECT SITE WHILE MITIGATION FOR HISTORICAL RESOURCES OR UNIQUE ARCHAEOLOGICAL RESOURCES IS BEING CARRIED OUT.
2. IN THE EVENT THAT PALEONTOLOGICAL RESOURCES ARE DISCOVERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER. A QUALIFIED PALEONTOLOGIST, SHALL DOCUMENT THE DISCOVERY AS NEEDED, EVALUATE THE POTENTIAL RESOURCE, AND ASSESS THE SIGNIFICANCE OF THE FIND UNDER THE CRITERIA SET FORTH IN CEQA GUIDELINES SECTION15064.5. THE OWNER SHALL BE RESPONSIBLE FOR THE COSTS OF OBTAINING THE PALEONTOLOGIST. IF A BREAS OR OTHER FOSSIL IS DISCOVERED DURING CONSTRUCTION, EXCAVATIONS WITHIN 50 FEET OF THE FIND SHALL BE TEMPORARILY HALTED OR DIVERTED UNTIL THE DISCOVERY IS EXAMINED BY A QUALIFIED PALEONTOLOGIST (IN ACCORDANCE WITH SOCIETY OF VERTEBRATE PALEONTOLOGY STANDARDS (SOCIETY OF VERTEBRATE PALEONTOLOGY, 1995). THE PALEONTOLOGIST SHALL NOTIFY THE APPROPRIATE AGENCIES TO DETERMINE PROCEDURES THAT SHOULD BE FOLLOWED BEFORE CONSTRUCTION IS ALLOWED TO RESUME AT THE LOCATION OF THE FIND. IF THE COUNTY DETERMINES THAT AVOIDANCE IS NOT FEASIBLE, THE PALEONTOLOGIST SHALL PREPARE AN EXCAVATION PLAN FOR MITIGATING THE EFFECT OF THE PROPOSED PROJECT ON THE QUALITIES THAT MAKE THE RESOURCE IMPORTANT. THE PLAN SHALL BE SUBMITTED TO THE COUNTY FOR REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION.
3. IF HUMAN SKELETAL REMAINS ARE UNCOVERED DURING PROJECT CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY HALT WORK IN THE AREA OF THE DISCOVERY, CONTACT THE MADERA COUNTY CORONER TO EVALUATE THE REMAINS, AND FOLLOW THE PROCEDURES AND PROTOCOLS SET FORTH IN SECTION 15064.5 (E)(1) OF THE CEQA GUIDELINES. IF THE COUNTY CORONER DETERMINES THAT THE REMAINS ARE NATIVE AMERICAN, THE COUNTY SHALL CONTACT THE NAHC, IN ACCORDANCE WITH HEALTH AND SAFETY CODE SECTION 7050.5, SUBDIVISION (C), AND ALL EXCAVATION AND SITE PREPARATION ACTIVITIES WOULD CEASE UNTIL APPROPRIATE ARRANGEMENTS ARE MADE.
4. THE CONTRACTOR SHALL FOLLOW THE PROVISIONS OF CCR, TITLE 8, SECTIONS 5163 THROUGH 5167 FOR GENERAL INDUSTRY SAFETY ORDERS TO PROTECT THE PROJECT AREA FROM BEING CONTAMINATED BY THE ACCIDENTAL RELEASE OF ANY HAZARDOUS MATERIALS AND/OR WASTES. DISPOSAL OF ALL HAZARDOUS MATERIALS SHALL BE IN COMPLIANCE WITH APPLICABLE CALIFORNIA HAZARDOUS WASTE DISPOSAL LAWS. THE CONTRACTOR SHALL CONTACT THE LOCAL FIRE AGENCY AND THE COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH, FOR ANY SITE-SPECIFIC REQUIREMENTS REGARDING HAZARDOUS MATERIALS OR HAZARDOUS WASTE CONTAINMENT OR HANDLING.
5. IN THE EVENT OF AN ACCIDENTAL RELEASE OF HAZARDOUS MATERIALS DURING CONSTRUCTION, CONTAINMENT AND CLEAN UP SHALL OCCUR IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS.
6. OIL AND OTHER SOLVENTS USED DURING MAINTENANCE OF CONSTRUCTION EQUIPMENT SHALL BE RECYCLED OR DISPOSED OF IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS. ALL HAZARDOUS MATERIALS SHALL BE TRANSPORTED, HANDLED, AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS.
7. THE CONTRACTOR SHALL PREPARE A SITE SAFETY PLAN IN ACCORDANCE WITH ANY REQUIREMENT OF THE RWQCB. IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL HALT CONSTRUCTION IMMEDIATELY AND NOTIFY THE PROJECT ENGINEER AND THE OWNER. DISPOSAL OF ALL HAZARDOUS MATERIALS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CALIFORNIA HAZARDOUS WASTE DISPOSAL LAWS.
8. THE CONTRACTOR SHALL PREPARE AND IMPLEMENT A SAFETY PROGRAM TO ENSURE THE HEALTH AND SAFETY OF CONSTRUCTION WORKERS AND THE PUBLIC DURING PROJECT CONSTRUCTION. THE SAFETY PROGRAM SHALL INCLUDE AN INJURY AND ILLNESS PREVENTION PROGRAM, A SITE-SPECIFIC SAFETY PLAN, AND INFORMATION ON THE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT TO BE USED DURING CONSTRUCTION.
9. THE CONTRACTOR SHALL WORK CLOSELY WITH LOCAL FIRE AGENCIES TO DEVELOP A FIRE SAFETY PLAN, WHICH DESCRIBES VARIOUS POTENTIAL SCENARIOS AND ACTION PLANS IN THE EVENT OF A FIRE.
10. DURING CONSTRUCTION, ALL STAGING AREAS, WELDING AREAS, OR AREAS SLATED FOR DEVELOPMENT USING SPARK-PRODUCING EQUIPMENT SHALL BE CLEARED OF DRIED VEGETATION OR OTHER MATERIAL THAT COULD IGNITE. ANY CONSTRUCTION EQUIPMENT THAT INCLUDES A SPARK ARRESTOR SHALL BE EQUIPPED WITH A SPARK ARRESTOR IN GOOD WORKING ORDER. DURING THE CONSTRUCTION OF THE PROPOSED PROJECT, THE CONTRACTOR SHALL REQUIRE ALL VEHICLES AND CREWS WORKING AT THE PROJECT SITE TO HAVE ACCESS TO FUNCTIONAL FIRE EXTINGUISHERS AT ALL TIMES. IN ADDITION, CONSTRUCTION CREWS SHALL HAVE A SPOTTER DURING WELDING ACTIVITIES TO LOOK OUT FOR POTENTIALLY DANGEROUS SITUATIONS, INCLUDING ACCIDENTAL SPARKS.
11. HOURS OF CONSTRUCTION SHALL BE LIMITED TO BETWEEN 7 AM AND 6 PM ON WEEKDAYS AND FROM 8 AM TO 5 PM ON SATURDAYS, UNLESS OTHERWISE APPROVED IN WRITING BY THE COUNTY AND OWNER.
12. CONSTRUCTION EQUIPMENT NOISE SHALL BE MINIMIZED DURING PROJECT CONSTRUCTION BY MUFFLING AND SHIELDING INTAKES AND EXHAUST ON CONSTRUCTION EQUIPMENT (PER THE MANUFACTURERS' SPECIFICATIONS) AND BY SHROUDING OR SHIELDING IMPACT TOOLS.
13. CONSTRUCTION STAGING AREAS SHALL BE LOCATED AS FAR AS POSSIBLE FROM NOISE-SENSITIVE USES.

KEY MAP
NOT TO SCALE



VICINITY MAP

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

OWNER INFORMATION

MADERA COUNTY
200 W. 4TH STREET
MADERA, CA 93637
(559) 675-7703

BASIS OF BEARINGS

THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 4, TOWNSHIP 12 SOUTH, RANGE 20 EAST, M.D.B.M. TAKEN TO BE N89°31'46"E AS SHOWN ON THE RECORD OF SURVEY RECORDED AS DOCUMENT NO. 2012030059 IN BOOK 60, PAGES 125, 126, AND 127, MADERA COUNTY RECORDS.

BENCHMARK

USGS BRASS CAP, NGS POINT ID DG9695
ELEVATION = 290.00 FEET
DATUM = NAVD 88
LOCATED ON HIGHWAY 41 AT THE SAN JOAQUIN RIVER

SHEET INDEX

SHEET NUMBER	SHEET TITLE
C-1	CIVIL - GENERAL
C-2	GRADING PLAN
C-3	UTILITY PLAN
C-4	SECTIONS

EARTHWORK:

VOLUMES ARE FOR PERMITTING ONLY AND ARE NOT TO BE USED FOR BIDDING. CONTRACTOR SHALL PERFORM THEIR OWN EARTHWORK CALCULATIONS.

LOCATION	CUT VOLUME (CUBIC YARDS)	FILL VOLUME (CUBIC YARDS)	NET VOLUME (CUBIC YARDS) CUT/FILL
FIRE STATION SITE	2603	3022	419 <FILL>

WDID #_____

APPROVALS :

DOMINIC TYBURSKI — DATE
DIRECTOR OF PUBLIC WORKS
MADERA COUNTY

COUNTY SIGNATURE INDICATES AN APPROVAL OF THIS SET OF PLANS ONLY AND NOT A COMPREHENSIVE APPROVAL OF ALL PROJECT REQUIREMENTS. COUNTY DOES NOT ASSUME ANY LIABILITY FOR ERRORS OR OMISSIONS. COUNTY'S APPROVAL SHALL NOT RELIEVE THE DESIGN ENGINEER OF HIS/HER OBLIGATION TO MAKE ALL NECESSARY CORRECTIONS TO MITIGATE ANY SUCH ERRORS OR OMISSIONS.

NICK BRUNO, PRESIDENT — DATE
ROOT CREEK WATER DISTRICT

RCWD APPROVAL INDICATES BOARD APPROVAL AND THIS PLAN SET HAS BEEN REVIEWED AND IS IN COMPLIANCE WITH ALL RCWD STANDARDS.

FIRE MARSHALL — DATE
FIRE DEPARTMENT
MADERA COUNTY

FIRE DEPARTMENT REVIEW AND APPROVAL IS LIMITED TO FIRE HYDRANT LOCATION, NO SEPARATE PERMIT IS REQUIRED.

BID DOCUMENTS

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2023.
RRM IS A CALIFORNIA CORPORATION

PRECISION CIVIL ENGINEERING, INC
PLANNING • SURVEYING • CIVIL ENGINEERING
1234 O STREET, FRESNO, CALIFORNIA 93721
TEL: 559.449.4500 FAX: 559.449.4515
WWW.PRECISIONENG.NET

RIVERSTONE FIRE STATION

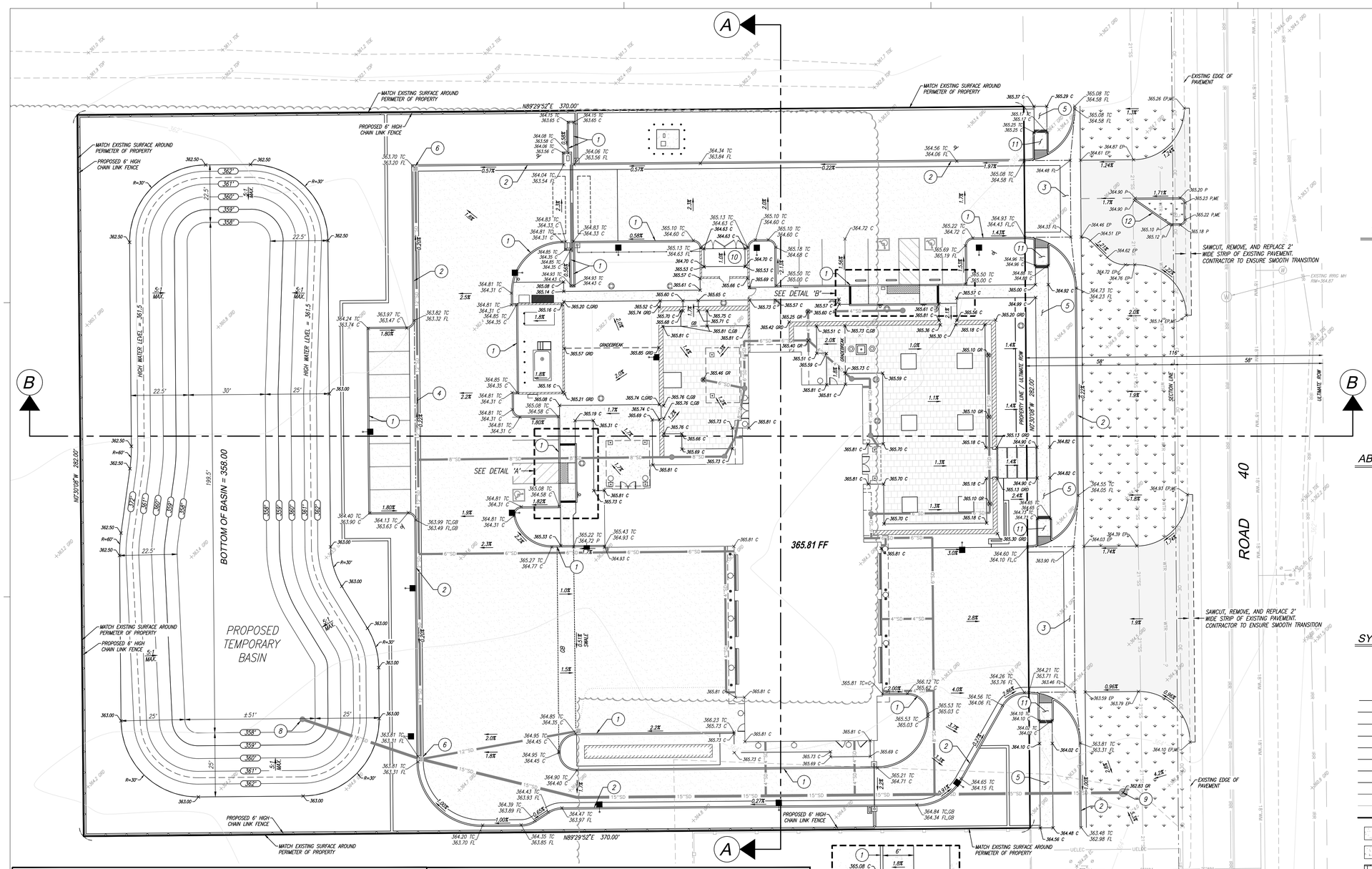
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

CIVIL - GENERAL

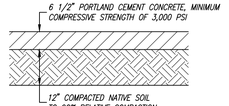
NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: CR
DRAWN BY: SF
CHECKED BY: CR
DATE: NOV. 4, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: C-1

Approved for Building Permit Issuance
County of Madera – Fire Station Building Division
Date: 05/04/2026
Fire Select Normal Building Occupancy



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

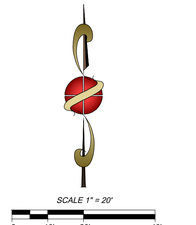


TYPICAL CONCRETE SECTION

T.I. = 7.0, R-VALUE = 57

NOTE:

CONCRETE SECTIONS MAY BE REVISED BASED ON SOIL TESTS TO BE COMPLETED AT THE CONCLUSION OF ROUGH GRADING.



ABBREVIATIONS

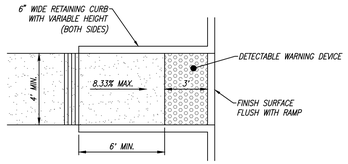
C	CONCRETE
EC	EDGE OF CONCRETE
EP	EDGE OF PAVEMENT
FF	FINISH FLOOR
FL	FLOWLINE
GB	GRADE BREAK
GRD	GROUND
RCWD	ROOT CREEK WATER DISTRICT
ROW	RIGHT OF WAY
STD	STANDARD
TC	TOP OF CURB
TOE	TOE OF SLOPE
TOP	TOP OF SLOPE

SYMBOLS

⌀	BOLLARD OR BARRIER POST
⊗	WATER OR IRRIGATION VALVE
	POWER POLE
W	IRRIGATION MANHOLE
OE	OVERHEAD ELECTRIC WIRES
UELEC	UNDERGROUND ELECTRIC WIRES
WTR	WATER MAIN (SIZE UNKNOWN)
2"WM	2" WATER MAIN
18"WM	18" WATER MAIN
21"SS	21" SANITARY SEWER MAIN
IRR	IRRIGATION PIPELINE
	WOOD FENCE
	SECTION LINE
	ULTIMATE RIGHT OF WAY LINE
	PROPERTY LINE / PROJECT BOUNDARY
	PROPOSED CONCRETE AREAS
	PROPOSED CONCRETE AREAS
	PROPOSED PATTERNED CONCRETE AREAS
	INSTALL WOOD CHIP MULCH
	PROPOSED PAVEMENT AREAS
A	SEE CROSS SECTION ON SHEET C-4

CONSTRUCTION KEYNOTES

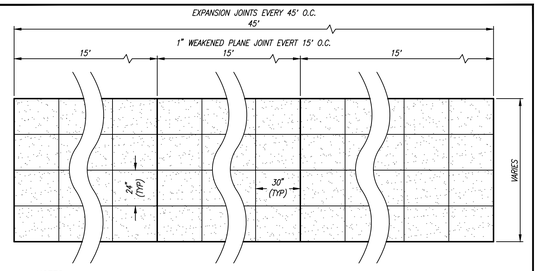
1. CONSTRUCT 6" CONCRETE CURB PER COUNTY OF MADERA STD. ST-16
2. CONSTRUCT 6" CONCRETE CURB AND GUTTER PER COUNTY OF MADERA STD. ST-16
3. CONSTRUCT CONCRETE VALLEY GUTTER PER COUNTY OF MADERA STD. ST-1A
4. CONSTRUCT 4-FOOT WIDE CONCRETE VALLEY GUTTER PER DETAIL ON THIS SHEET
5. CONSTRUCT 4" CONCRETE SIDEWALK PER DETAIL ON THIS SHEET
6. PROPOSED STORM DRAIN INLET. INSTALL "CHRISTY" V24 DRAIN BOX
7. NOT USED
8. INSTALL STORM TYPE B INLET WITH SLOTTED MANHOLE GRATE PER RCWD STD. D-11
9. INSTALL TYPE GCP INLET PER CALTRANS STD. D75B
10. PROPOSED TRASH ENCLOSURE PER ARCHITECTURAL PLANS
11. CONSTRUCT IN-LINE CURB RAMP PER DETAIL ON THIS SHEET
12. CONSTRUCT TYPE "A" HMA DIKE PER CALTRANS STD. A87B



NOTES:

1. TRANSITIONS FROM RAMPS AND LANDING TO WALK, GUTTERS OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
2. SURFACE OF CURB RAMP AND FLARED SIDES SHALL HAVE MEDIUM BROOM FINISH TRANSVERSE TO PATH OF TRAVEL AND SHALL BE OF CONTRASTING FINISH TO THAT OF ADJACENT SIDEWALK.
3. RAMP SLOPE SHALL NEVER EXCEED 8.33%.
4. THE SLOPE OF ADJOINING GUTTERS, ROAD SURFACE OR ACCESSIBLE ROUTE WITHIN 4' OF THE BOTTOM OF THE RAMP SHALL NOT EXCEED 5% SLOPE.
5. THERE SHALL BE A SEGMENT OF STRAIGHT CURB AT LEAST 24" LONG ON EACH SIDE OF THE CURB RAMP. THESE CURBS SHALL ALSO BE WITHIN THE MARKED CROSSWALK.
6. PROVIDE LEVEL LANDING OF AT LEAST 48" ON UPPER END AND OVER FULL WIDTH OF RAMP. 2% MAXIMUM SLOPED LANDING IN ANY DIRECTION.
7. THE 4' CLEAR SPACE AT THE BOTTOM OF THE RAMP SHALL BE WITHIN THE MARKED CROSSINGS.
8. RAMP SHALL BE MINIMUM OF 4' WIDE AND SHALL LIE GENERALLY IN A SINGLE SLOPED PLANE WITH A MINIMUM OF SURFACE WARPING AND CROSS SLOPE.
9. THE FLARED SIDE SHALL NOT EXCEED 10% SLOPE.
10. CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED CARS.
11. THE DETECTABLE WARNING SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES. EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. THE MATERIAL USED SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE.

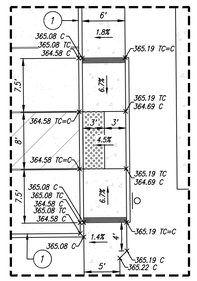
IN-LINE CURB RAMP

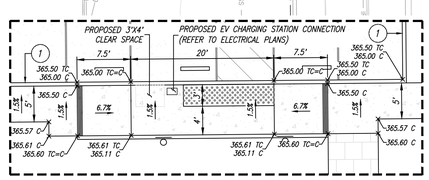


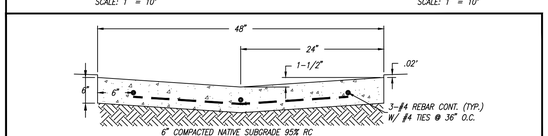
NOTES:

1. SIDEWALKS, CURBS AND GUTTERS TO BE CLASS 3 CONCRETE: EXTRUDED CURB SHALL BE CLASS 2.
2. APPLY TACK COAT TO GUTTER PAN FACE AND EXISTING AC PRIOR TO PAVING.
3. BROOM FINISH ON CURB AND GUTTER AND SIDEWALK. MED. SWEAT FINISH ON SIDEWALK IS OPTIONAL OR AS DIRECTED BY THE ENGINEER.
4. BROOM FINISH SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL ON SIDEWALKS, AND PARALLEL TO THE PATH OF TRAVEL ON CURB AND GUTTER.
5. CURB AND GUTTER SUBGRADE, COMPACT TO 95%; SIDEWALK SUBGRADE, COMPACT TO 90%; BEHIND DRIVE APPROACH, 95%.
6. EXPANSION JOINT MATERIAL SHALL CONSIST OF 1/4" THICK PREMOLDED JOINT MATERIAL MEETING ASTM DESIGNATION D-1751.
7. ALL WORK CONSTRUCTED BY THIS STANDARD SHALL BE COMPLETED IN COMPLIANCE WITH THE CURRENT ADA REGULATIONS.
8. THE SIDEWALK SHALL PROVIDE A CONTINUOUS AND UNOBSTRUCTED PATH-OF-TRAVEL FOR PEDESTRIANS WITH DISABILITIES IN ACCORDANCE WITH CURRENT ADA STANDARDS.

4" THICK CONCRETE SIDEWALK







4' CONCRETE VALLEY GUTTER

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED A PUBLICATION OF RRM DESIGN GROUP.
RRM DESIGN GROUP COPYRIGHT 2023.
RRM IS A CALIFORNIA CORPORATION

PRECISION CIVIL ENGINEERING, INC
PLANNING ● SURVEYING ● CIVIL ENGINEERING
1234 O STREET, FRESNO, CALIFORNIA 93721
TEL: 559.449.4500 FAX: 559.449.4515
WWW.PRECISIONENG.NET

BID DOCUMENTS

RIVERSTONE FIRE STATION

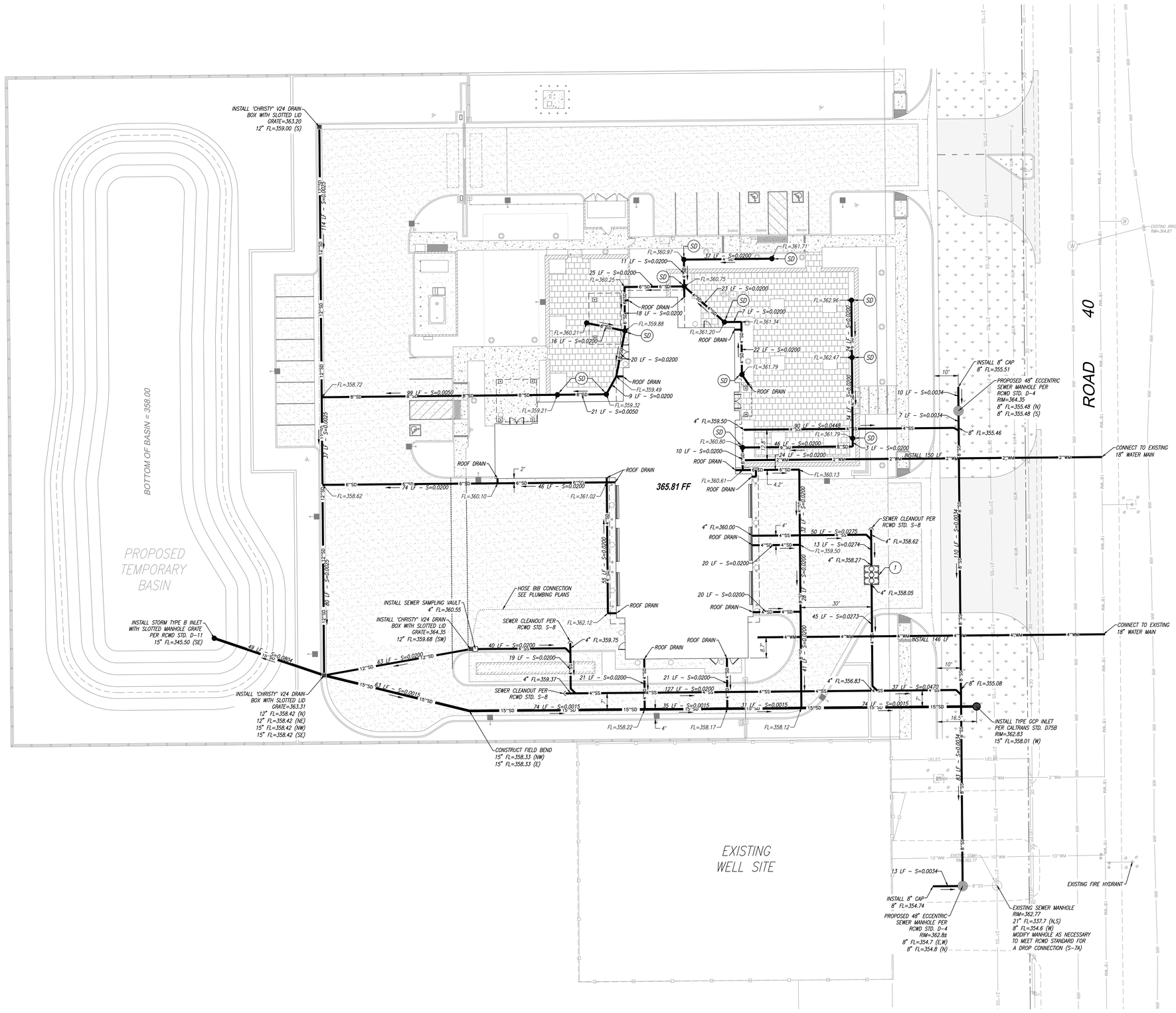
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

GRADING PLAN

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: CR
DRAWN BY: SF | CHECKED BY: CR
DATE: MAY 4, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: C-2

Approved Building Division Set - Valid for 2 Years - Review Comments Dated Feb 22 2027 - Madera - Community Development Department - Building and Safety Division - Approved Under the Authority of Ordinance 2015-01 - Not to be Altered Without Written Approval



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

ABBREVIATIONS

(N)	DIRECTION OF PIPE
FL	FLOWLINE
LF	LINEAL FEET
RCWD	ROOT CREEK WATER DISTRICT
STD	STANDARD

SYMBOLS

- BOLLARD OR BARRIER POST
- WATER OR IRRIGATION VALVE
- POWER POLE
- IRRIGATION MANHOLE
- OVERHEAD ELECTRIC WIRES
- UNDERGROUND ELECTRIC WIRES
- EXISTING WATER MAIN (SIZE UNKNOWN)
- EXISTING WATER (SIZE AS NOTED)
- EXISTING SEWER MAIN (SIZE AS NOTED)
- EXISTING IRRIGATION PIPELINE
- EXISTING WOOD FENCE
- PROPOSED CHAIN LINK FENCE
- PROPOSED SANITARY SEWER MAIN (SIZE AS NOTED)
- PROPOSED STORM PIPE (SIZE AS NOTED)
- PROPOSED WATER MAIN (SIZE AS NOTED)
- PROPOSED "CHRISTY" VO5 DRAIN BOX
- PROPOSED CONCRETE AREAS
- PROPOSED CONCRETE AREAS
- PROPOSED PATTERNED CONCRETE AREAS
- INSTALL WOOD CHIP MULCH
- PROPOSED PAVEMENT AREAS

CONSTRUCTION KEYNOTES

(1) INSTALL 750 GALLON CONCRETE SAND AND OIL CLARIFIER, MID STATE CONCRETE PRODUCTS MODEL C-750LP OR APPROVED EQUAL (MUST BE IN COMPLIANCE WITH UNIFORM PLUMBING CODE).

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED A PUBLISHING OF RRM'S DESIGN CONCEPTS.
RRM DESIGN GROUP COPYRIGHT 2023.
RRM IS A CALIFORNIA CORPORATION

PRECISION CIVIL ENGINEERING, INC
PLANNING ● SURVEYING ● CIVIL ENGINEERING
1234 O STREET, FRESNO, CALIFORNIA 93721
TEL: 559.449.4500 FAX: 559.449.4515
WWW.PRECISIONENG.NET

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

UTILITY PLAN

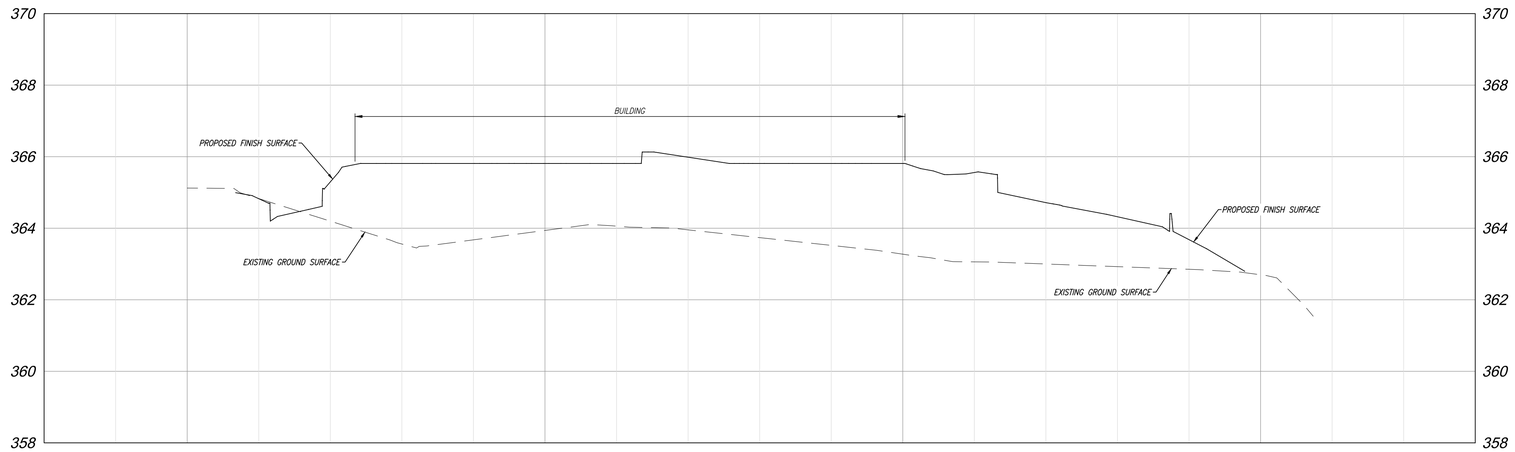
BID DOCUMENTS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: CR
DRAWN BY: SF
CHECKED BY: CR
DATE: November 4, 2026 (Date Revised 05/04/2026)
PROJECT NUMBER: 2471-01-CI21

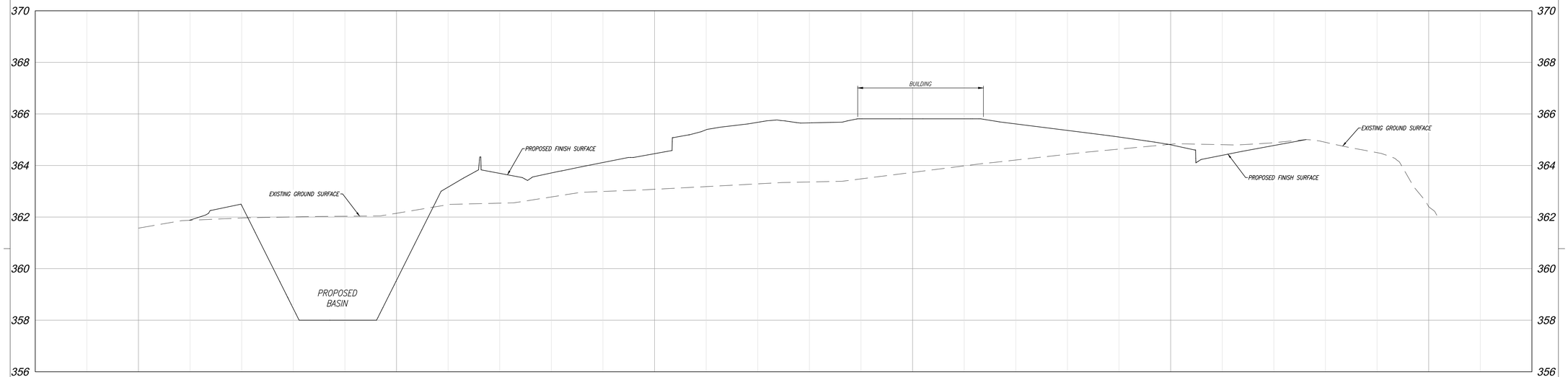
Approved Plans Must Be On Jobsite
Fresno County Building Division
Building Safety Solutions for a Safer California

SHEET: C-3



SECTION A-A

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'



SECTION B-B

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

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

rrm design group

rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2023.
RRM IS A CALIFORNIA CORPORATION

PRECISION CIVIL ENGINEERING, INC
PLANNING ● SURVEYING ● CIVIL ENGINEERING
1234 O STREET, FRESNO, CALIFORNIA 93721
TEL: 559.449.4500 FAX: 559.449.4515
WWW.PRECISIONENG.NET

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

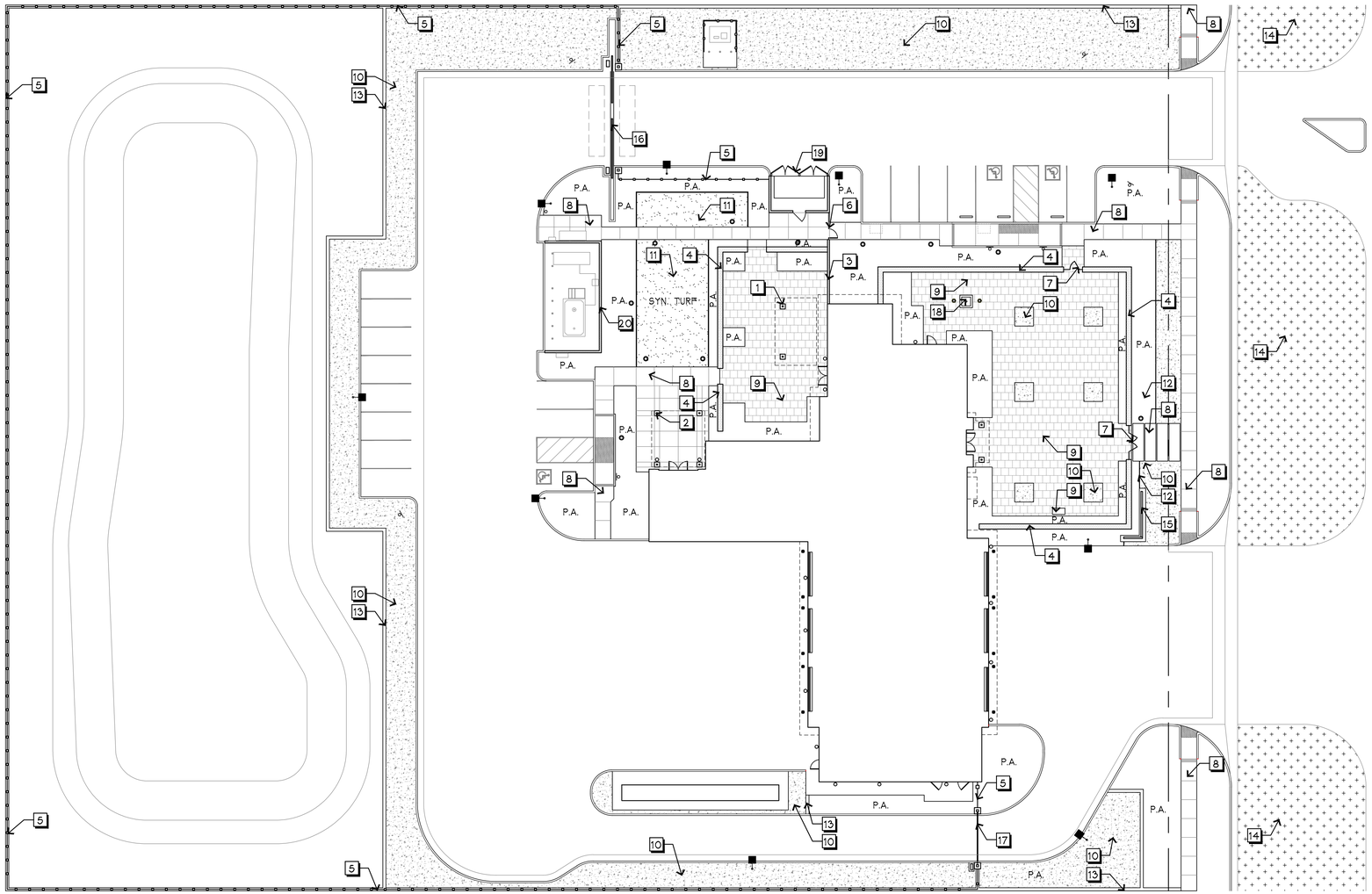
SECTIONS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: CR
DRAWN BY: SF
CHECKED BY: CR
DATE: MAY 4, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: C-4

Building Division – City of Madera – Conditions Approved – Review for Code Compliance Only – Not to Scale – Normal Building and Fire Safety Requirements Apply – Date: 05/04/2026

BID DOCUMENTS



CONSTRUCTION LEGEND

SYM.	DESCRIPTION
1	METAL SHADE STRUCTURE AT DINING COURTYARD
2	METAL SHADE STRUCTURE AT EXERCISE ROOM
3	6' MASONRY WALL. S-193 (R), SPLIT FACE BY BASALITE, OR EQUAL
4	COURTYARD WALL W/ STONE VENEER TO MATCH ARCH.
5	PERIMETER FENCE
6	PEDESTRIAN GATE
7	COURTYARD ENTRY GATES
8	PEDESTRIAN CONCRETE; COLOR: NATURAL GRAY, MEDIUM BROOM FINISH, SCORE AS SHOWN
9	12"x24" PRE-CAST LARGE SCALE CAL-ARC PAVERS BY STEPSTONE, LLC. COLOR: ALMOND. LIGHT SANDBLAST FINISH
10	3/8" CRUSHED ROCK MULCH; COLOR: CALIFORNIA GOLD
11	SYNTHETIC TURF SYNFESCUE 343 BY SYNLAWN OR EQUAL
12	14 GAUGE 8" HEIGHT CORTEN STEEL EDGE BY EDGE-RIGHT W/ ROCK MULCH FILL. FOR ORDERING - PH: 1-855-777-0240
13	12" CONCRETE MOWCURB
14	3" THICK WALK-ON BARK MULCH
15	FABRICATED PROJECT SIGNAGE
16	DOUBLE ROLLING GATE - SEE ARCH. DWGS
17	SWINGING EXIT GATE - SEE ARCH. DWGS
18	STATION MONUMENT W/ FLAG POLE - SEE ARCH. DWGS
19	TRASH ENCLOSURE - SEE ARCH. DWGS
20	UTILITY ENCLOSURE - SEE ARCH. DWGS

NORTH

0 20' 40'

SCALE: 1"=20'

BID DOCUMENTS

rrm design group

rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

LICENSED LANDSCAPE ARCHITECT
TERRY R. BROUSSARD - No. 4068
SIGNATURE
EXP. 01/31/27
STATE OF CALIFORNIA

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. SUBMISSION OR DISTRIBUTION OF DRAWINGS OR SPECIFICATIONS SHALL CONSTITUE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2023.
RRM IS A CALIFORNIA CORPORATION

BROUSSARD ASSOCIATES
landscape architects
389 Clovis Ave., Suite 200
Clovis, CA 93612
T 559.325.7284
F 559.325.7286

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

CONSTRUCTION PLAN

NO.	REVISION	DATE

PROJECT MANAGER: MLS
DRAWN BY: TSB
CHECKED BY: CW
DATE: MAY 4, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: LC - 1

County of Madera - CED Building and Fire Safety - Building Division
Approved under the 2022 California Building Code
Date 05/06/2026

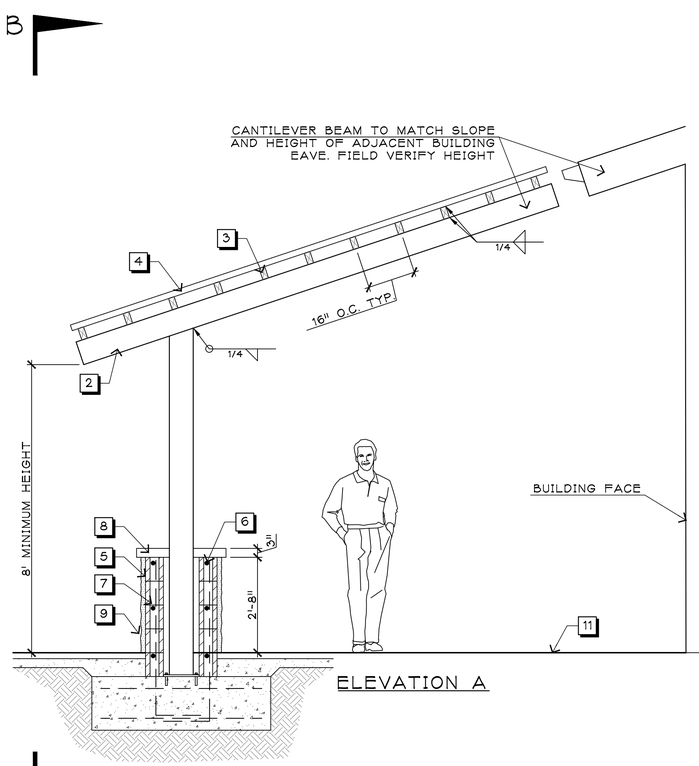
LEGEND

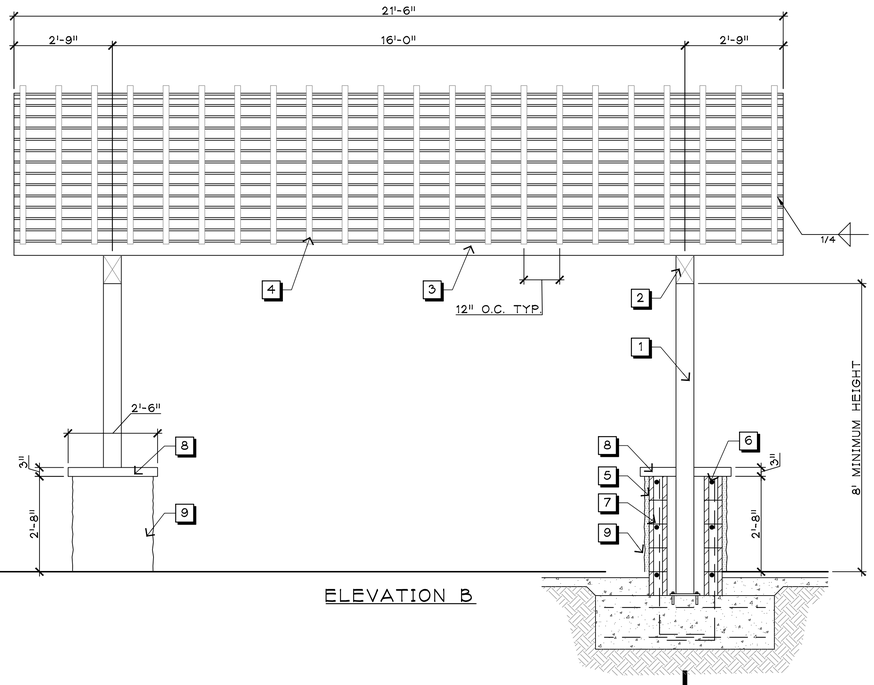
1. HSS8x6x¼ COLUMN, DARK BRONZE FINISH
2. HSS8x6x¼ BEAM, DARK BRONZE FINISH
3. HSS4x2x¼ BEAM, DARK BRONZE FINISH
4. HSS2x2x¼ BEAM, DARK BRONZE FINISH
5. 8x8x16 CMU BLOCK; SOLID FILL ALL CELLS
6. NO. 4 HORIZ. REBAR
7. NO. 4 VERT. REBAR
8. PRE-CAST CONCRETE CAP; COLOR: TBS
9. STONE VENEER TO MATCH ARCH.
10. CONC. FOOTING PER STRUCT. ENG.
11. FINISH SURFACE, SEE CONST. DRAWING
12. COMPACTED SUB-GRADE

NOTES:
ALL TUBULAR STEEL SHALL RECEIVE ONE (1) COAT OF EXTERIOR GRADE PRIMER, AND ONE (1) COAT OF SEMI GLOSS POWDER COAT FINISH - COLOR: BLACK

CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL BY CLIENT AND LAND. ARCH. REVIEW.

TYPE: NON-COMBUSTIBLE METAL STRUCTURE
OCCUPANCY: CATEGORY U
SQUARE FOOTAGE: 290 SQ. FT.





A SHADE STRUCTURE AT COURTYARD
SCALE: 1/2" = 1'-0"

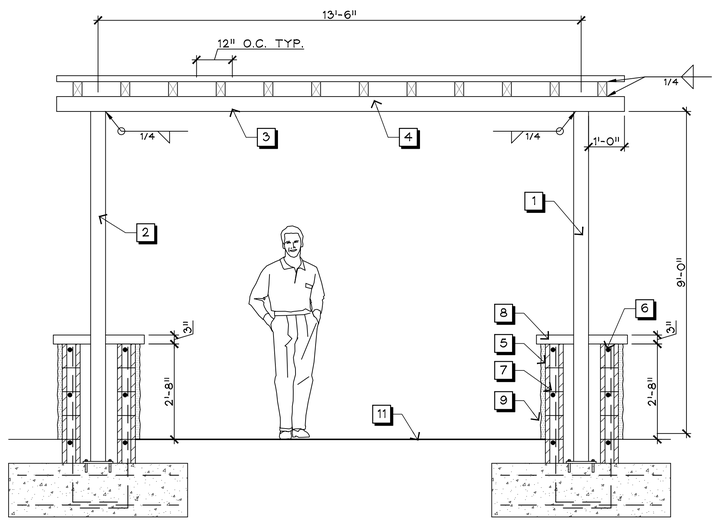
LEGEND

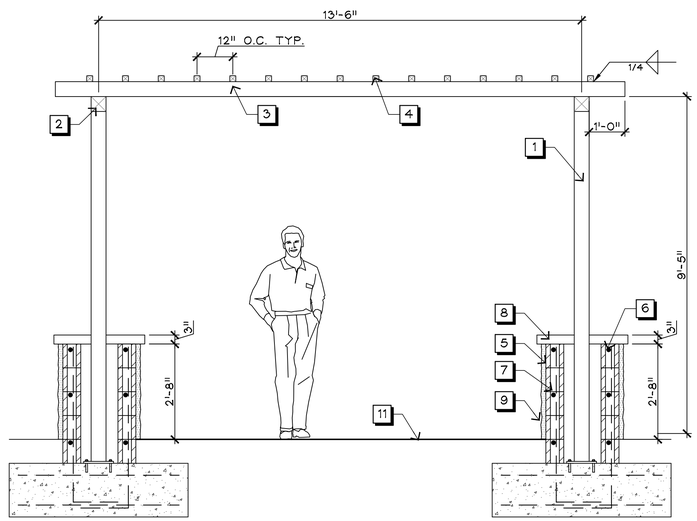
1. HSS4x4x¼ COLUMN
2. HSS6x4x¼ BEAM
3. HSS4x2x¼ BEAM
4. HSS2x2x¼ BEAM
5. 6x8x16 CMU BLOCK; SOLID FILL ALL CELLS
6. NO. 4 HORIZ. REBAR
7. NO. 4 VERT. REBAR
8. PRE-CAST CONCRETE CAP; COLOR TO MATCH ARCH.
9. STONE VENEER TO MATCH ARCH.
10. CONC. FOOTING PER STRUCT. ENG.
11. FINISH SURFACE, SEE CONST. DRAWING
12. COMPACTED SUB-GRADE

NOTES:
ALL TUBULAR STEEL SHALL RECEIVE ONE (1) COAT OF EXTERIOR GRADE PRIMER, AND ONE (1) COAT OF SEMI GLOSS POWDER COAT FINISH - COLOR: BLACK

CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL BY CLIENT AND LAND. ARCH. REVIEW.

TYPE: NON-COMBUSTIBLE METAL STRUCTURE
OCCUPANCY: CATEGORY U
SQUARE FOOTAGE: 256 SQ. FT.





B SHADE STRUCTURE AT EXERCISE ROOM
SCALE: 1/2" = 1'-0"

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

LICENSED LANDSCAPE ARCHITECT
JERRY R. BROUSSARD — RL-4068
SIGNATURE
EXP. 01/31/27
STATE OF CALIFORNIA

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. SUBMISSION OR DISTRIBUTION OF DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.

RRM DESIGN GROUP COPYRIGHT 2023.
RRM IS A CALIFORNIA CORPORATION

BROUSSARD ASSOCIATES
landscape architects
389 Clovis Ave., Suite 200
Clovis, CA 93612
T 559.325.7284
F 559.325.7286

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

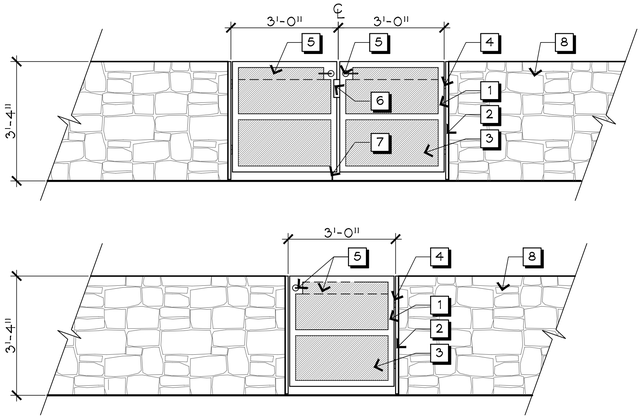
CONSTRUCTION DETAILS

NO.	REVISION	DATE

PROJECT MANAGER
MLS
DRAWN BY
TSB
CHECKED BY
CW
DATE
MAY 1, 2026
PROJECT NUMBER
2471-01-CI21
SHEET
LC - 2

BID DOCUMENTS

County of Madera – CED Building and Fire Safety – Building Division
This Plan Is Approved Under The 2022 California Building Code
Date 05/06/2026
By

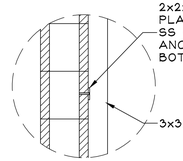


LEGEND

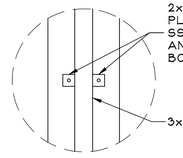
1. HSS 2x2x3/16 FRAME
2. HSS 3x3x3/16 POST
3. 11 GA STEEL SHEET, CONT. WELD ALL EDGES
4. WELDABLE BARREL HINGE
5. RIM EXIT DEVICE W/ ENTRY LEVER. VON DUPRIN 230L-BE OR EQUAL. COLOR: BLACK
6. 1/4" STOP PLATE
7. LOCINOX #SUBY INTERNAL DROP BOLT. COLOR: BLACK
8. COURTYARD WALL, SEE DETAIL

NOTES:
ALL TUBULAR STEEL SHALL RECEIVE ONE (1) COAT OF EXTERIOR GRADE PRIMER, AND ONE (1) COAT OF SEMI GLOSS POWDER COAT FINISH - COLOR: BLACK

CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL BY CLIENT AND LAND. ARCH. REVIEW.

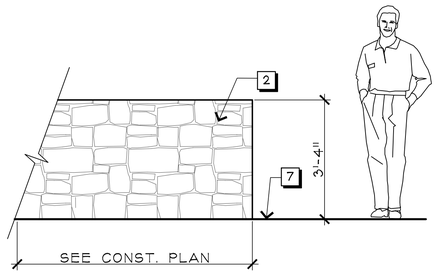


AA MASONRY/POST CONNECTION
SCALE: 1/2" = 1'-0"

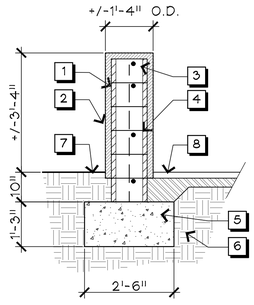


BB POST/PLATE CONNECTION
SCALE: 1/2" = 1'-0"

© COURTYARD GATES
SCALE: 1/2" = 1'-0"



ELEVATION

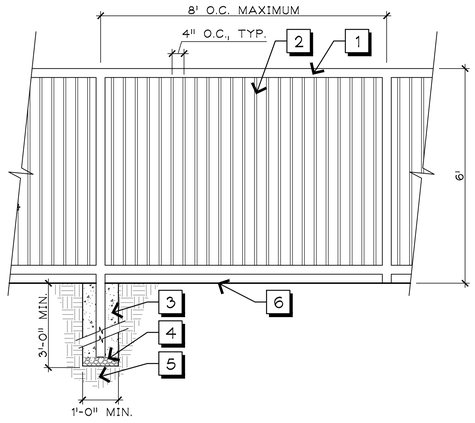


SECTION

LEGEND

1. 12X8X16 CMU. SOLID FILL ALL CELLS
2. STONE VENEER; TO MATCH ARCH.
3. NO. 4 HORIZ. REBAR TIES @ 16" O.C.
4. NO. 4 VERT. REBAR @ 30" O.C.
5. CONC. FOOTING PER STRUCT. ENG.
6. SUB-GRADE PER SOIL ENG. SPECS
7. FINISH GRADE
8. FINISH SURFACE

Ⓓ COURTYARD WALL
SCALE: 1/2" = 1'-0"

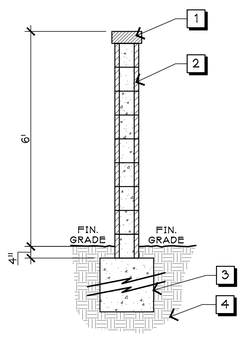


LEGEND

1. 3x3x1/4 HSS
2. 3/4" T.S. PICKET @ 4" O.C.
3. CONCRETE FOOTING
4. ¾" CRUSHED ROCK
5. COMPACTED SUBGRADE
6. FINISH GRADE

NOTES:
ALL TUBULAR STEEL SHALL RECEIVE ONE (1) COAT OF EXTERIOR GRADE PRIMER, AND ONE (1) COAT OF SEMI GLOSS POWDER COAT FINISH
COLOR: BLACK

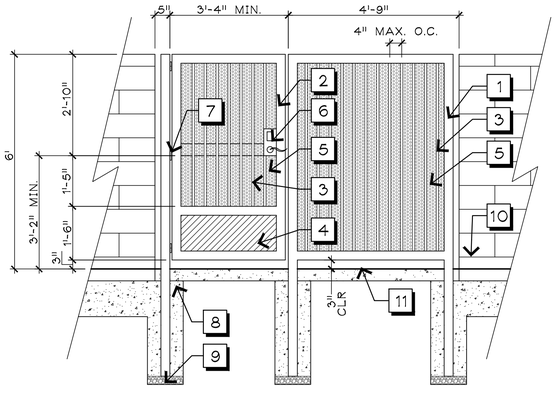
Ⓔ PERIMETER FENCE
SCALE: 1/2" = 1'-0"



LEGEND:

1. 4x10x16 CONCRETE WALL CAP
2. 8x8x16 SPLIT FACE BASALITE, SPLIT FACE BLOCK GROUT SOLID ALL CELLS
3. CONCRETE FOOTING
4. COMPACTED SUBGRADE

Ⓕ MASONRY BLOCK WALL
SCALE: 1/2" = 1'-0"



PEDESTRIAN ENTRY GATE

LEGEND

1. 3x3x1/4 HSS
2. 2x3x1/4 HSS
3. 3/4" T.S. PICKET @4" O.C. MAXIMUM, CONT. WELD TOP AND BOTTOM
4. 3/16" ROLLED STEEL METAL PANEL CONT. WELD
5. 1/8"ø, 20 GAUGE PERFORATED METAL PANEL (AT FACE OF GATE)
6. GATE LOCK HARDWARE, LEVER ACTION AND PUSH BAR HARDWARE WITH REMOTE ENTRY ACCESS.
7. SELF CLOSING HINGES OR SPRING MECHANISM NOT TO EXCEED 5 LBS. EFFORT TO OPEN 90 DEGREES
8. CONCRETE POST FOOTING
9. 3/4" CRUSHED ROCK
10. SPLIT FACE MASONRY WALL - SEE DETAIL
11. FINISH SURFACE

NOTES:
ALL TUBULAR STEEL SHALL RECEIVE ONE (1) COAT OF EXTERIOR GRADE PRIMER, AND ONE (1) COAT OF SEMI GLOSS POWDER COAT FINISH - COLOR: BLACK

CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL BY CLIENT AND LAND. ARCH. REVIEW.

Ⓖ PERIMETER FENCE
SCALE: 1/2" = 1'-0"

BID DOCUMENTS

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

LICENSED LANDSCAPE ARCHITECT
TERRY R. BROUSSARD — No. 4068
EXP. 01/31/27
STATE OF CALIFORNIA

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. SUBMISSION OR DISTRIBUTION OF THESE OR SPECIFICATIONS SHALL CONSTITUE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2023.
RRM IS A CALIFORNIA CORPORATION

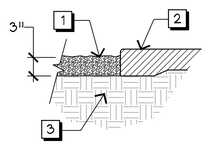
BROUSSARD ASSOCIATES
landscape architects
389 Clovis Ave., Suite 200
Clovis, CA 93612
T 559.325.7284
F 559.325.7286

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40
CONSTRUCTION DETAILS

NO.	REVISION	DATE
△		
△		
△		
△		
△		
△		

PROJECT MANAGER: MLS
DRAWN BY: TSB
CHECKED BY: CW
DATE: 05/06/2026
PROJECT NUMBER: 2471-01-CI21
SHEET: LC - 3

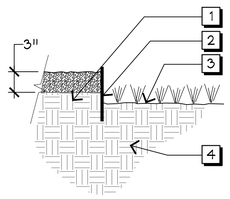
County of Madera – CED Building and Fire Safety – Building Division
Approved under the 2022 California Building Code



LEGEND:

1. 3/8" CRUSHED ROCK, 3" DEPTH; COLOR: CALIFORNIA GOLD, AVAIL FROM ROSENBALM ROCKERY, FRESNO, CA 559-256-3900
2. FINISH SURFACE
3. UNDISTURBED SUB-GRADE

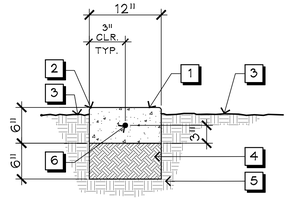
H DECOMPOSED GRANITE
SCALE: 1" = 1'-0"



LEGEND:

1. 3/4" CRUSHED STONE, 3" DEPTH; COLOR: 'CALIFORNIA GOLD', AVAIL. FROM ROSENBALM ROCKERY, FRESNO, CA. 559-256-3900
2. CORTEN STEEL EDGE
3. PLANTING AREA / FINISH GRADE
4. UNDISTURBED SUBGRADE

I CORTEN W/ CRUSHED ROCK
SCALE: 1" = 1'-0"



LEGEND

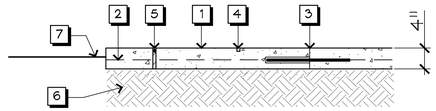
1. CONCRETE, COLOR: NATURAL
2. 1/2" RAD. AT CORNER, TYP.
3. FINISH GRADE
4. COMPACTED NATIVE SOIL 95% RELATIVE DENSITY
5. UNDISTURBED SUBRADE
6. #4 REBAR CONT.

NOTE: CONTROL JOINTS EVERY 4'-0" O.C., EXPANSION JOINTS EVERY 30'-0" O.C.

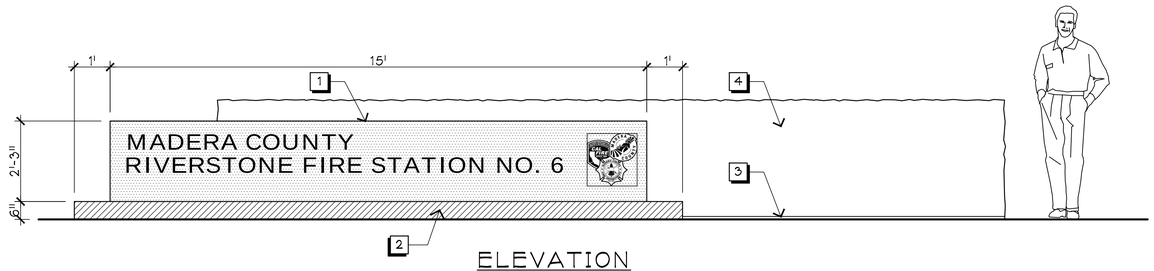
J 12" CONCRETE MOWCURB
SCALE: 1" = 1'-0"

LEGEND:

1. 3 1/2" THK. CONC. PAVING; SEE PLAN FOR COLOR & FINISH. (CALTRANS TYPE "B", 5 SACK MIX)
2. CONCRETE REINFORCEMENT: #3 HORIZONTAL REBAR 18" O.C.E.W. OR PER SOILS ENGINEER REPORT, MAINTAIN 3" CLEARANCE FROM PAVING EDGE
3. COLD JOINT: 18" LONG NO. 4 REBAR @ 18" O.C. INSTALL 9" REBAR IN CENTER OF EXISTING SLAB 9" OF REBAR INTO CENTER OF NEW SLAB.
4. SCORE JOINT: AS SHOWN ON PLANS OR 5' ON CENTER MAXIMUM 1/4" WIDE x 1/2" DEEP TOOLED JOINT OR 1/8" WIDE x 3/4" DEEP SAWCUT SCORE JOINT
5. EXPANSION JOINT; 1/4" FELT EXP. JOINT WITH 1/4" RADIUS TOOLED EDGE AND WHITECAP - CAULK COLOR SHALL MATCH PAVING. INSTALL PER PLAN.
6. COMPACTED SUBGRADE PER SOILS ENGINEER.
7. FINISH GRADE: 1" AT TURF AREAS; 2" AT SHRUB AREAS



K PEDESTRIAN CONCRETE
SCALE: 1" = 1'-0"

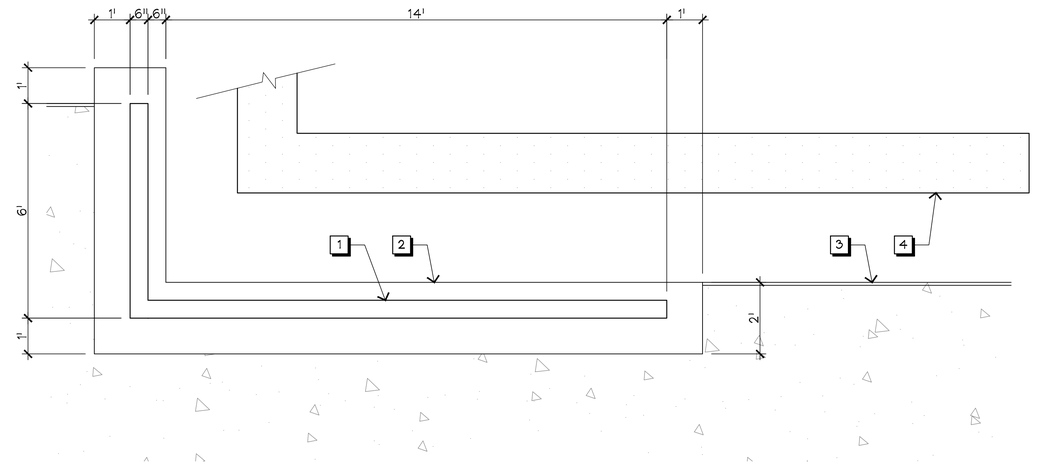


ELEVATION

LEGEND

1. MONUMENT SIGNAGE
2. CONCRETE PEDESTAL
3. CORTEN EDGE W/ CRUSHED ROCK - SEE LC-1
4. COURTYARD WALL - SEE DETAIL

NOTES
1. FINAL SHOP DRAWINGS TO BE APPROVED BY LANDSCAPE ARCHITECT.
2. SIGN CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR METAL LETTERS



L PROJECT SIGNAGE (FOR REFERENCE ONLY)
SCALE: 1/2" = 1'-0"

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

LICENSED LANDSCAPE ARCHITECT
TERRY R. BROUSSARD - RLA 4068
SIGNATURE
DATE 4-30-26
EXP. 01/31/27
STATE OF CALIFORNIA

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. SUBMISSION OR DISTRIBUTION OF DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2023.
RRM IS A CALIFORNIA CORPORATION

BROUSSARD ASSOCIATES
landscape architects
389 Clovis Ave., Suite 200
Clovis, CA 93612
T 559.325.7284
F 559.325.7286

BID DOCUMENTS

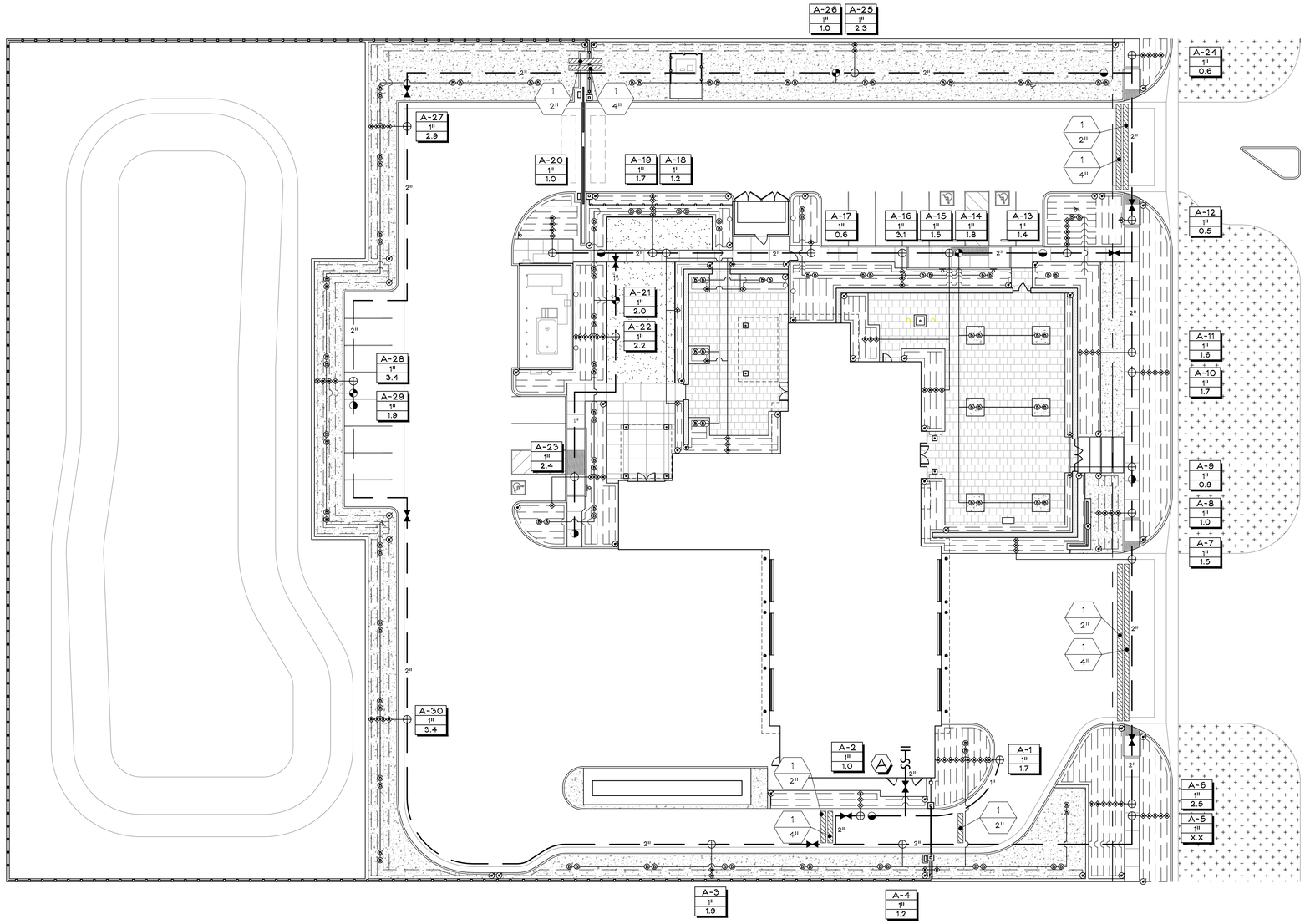
RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

CONSTRUCTION DETAILS

NO.	REVISION	DATE

PROJECT MANAGER
MLS
DRAWN BY
TSB
CHECKED BY
CW
DATE
MAY 4, 2026
PROJECT NUMBER
2471-01-CI21
SHEET
LC - 4

County of Madera – CED Building and Fire Safety – Building Division
Plans Approved under the 2022 California Building Code
Date 05/06/2026



IRRIGATION WIRE NOTES

1) THE IRRIGATION COMMON AND CONTROL WIRE WILL BE SINGLE STRAND COPPER, UF/UL, DIRECT BURIAL WIRE. (PAIGE WIRE)
2) THE CONTROL WIRE WILL BE #14 AND THE COMMON WIRE WILL BE #12. NO SMALLER SIZES WILL BE ALLOWED.

SLEEVE NOTE

1. ALL SLEEVES UNDER PAVEMENT SHALL BE SCHEDULE 40 GALVANIZED STEEL. ALL OTHER SLEEVES WILL BE SCHEDULE 40 PVC.
2. ALL PIPE AND WIRE WILL BE INSTALLED IN SEPARATE SLEEVES. MIXING PIPE WITH WIRE IN THE SAME SLEEVE WILL NOT BE ALLOWED.
3. MINIMUM SLEEVE SIZE IS 2".
4. ALL PAVED SURFACES, SIDEWALKS, DRIVEWAYS, WALL FOOTINGS AND HARDSCAPE AREAS WILL RECEIVE SLEEVES.
5. ALL SLEEVES MAY NOT BE SHOWN AND/OR SIZED ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ALL REQUIRED SLEEVING AND PROPER SIZING.

PVC PIPE SIZE CHART

Size	CL. 200	Sch. 40	CL. 315
1/2"	N/A	N/A	0-5
3/4"	0-10	0-8	6-9
1"	11-17	9-13	10-15
1 1/4"	18-27	14-23	16-24
1 1/2"	28-37	24-31	25-32
2"	38-57	32-53	33-50
2 1/2"	58-82	54-73	51-72
3"	83-120	74-115	73-105
4"	121-200	116-195	106-180

The above gpm's are based on a maximum of 5' per second velocity.

IRRIGATION LEGEND FOR IRRIGATION EQUIPMENT

SYMBOL	DESCRIPTION - MANUFACTURER - MODEL #
IISS	Irrigation Point of Connection - See Architectural Drawings for Location
	Electric Irrigation Valve - Hunter - ICV Series w/ Pressure Regulator (Size as Noted)
A	Irrigation Controller - Hunter ACC2 - PED-SS. Conventional Wire. Include Roam Kit and Remote. Install per manufacturer specifications.
	Hunter - Quick Coupler Valve - 3/4" - Locking Cover, Brass Valve.
	Gate Valve - Nibco - Brass/Bronze (1" up to 2") Line (size as noted)
	Pressure Mainline - Class 315/Sch 40 PVC Pipe (size as noted)
	Non-Pressure Lateral Lines - Cl. 200 PVC Pipe (size as noted)
	Drip Emitter Pipe - Hunter - HDL-06-18-CV Install Per Manuf. Specs
	Drip Flush - Hunter - Flush Valve - Install Per Manufacturer's Specs.
	Drip Zone Valve Kit - Hunter - ICZ-101-LF-40 - Size as Noted
	PVC to Poly Adapter - Hunter - PLD-LOC Fittings Only
B	Bubbler - Hunter - 24" IH-Riser w/ HEB-40 Bubbler 4 GPH Bubbler (2 Per Tree)
M	Flow Sensor - Flomec - QS200-20 2" Ultrasonic Flow Meter
M	Master Valve - Superior #3300200 - 2" 3300 Normally Open Master Valve

Electric Valve Designation
Control Valve Size — A-1 / 1.7 — Controller Station Number / Gallons Per Minute (Flow)

Sleeve Designation
1 / 2" — Quantity of Sleeves / Size of Sleeves

NORTH

0 20' 40'

BID DOCUMENTS

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

LICENSED LANDSCAPE ARCHITECT
TERRY R BROUSSARD
No. 4068
SIGNATURE
DATE
EXP. 01/31/27
STATE OF CALIFORNIA

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. SUBMISSION OR DISTRIBUTION OF DOCUMENTS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2023.
RRM IS A CALIFORNIA CORPORATION

BROUSSARD ASSOCIATES
landscape architects
389 Clovis Ave., Suite 200
Clovis, CA 93612
T 559.325.7284
F 559.325.7286

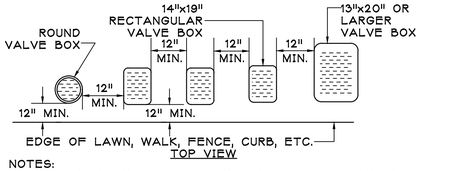
RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

IRRIGATION PLAN

NO.	REVISION	DATE

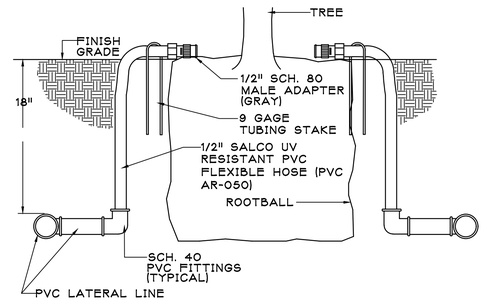
PROJECT MANAGER: MLS
DRAWN BY: TSB
CHECKED BY: CW
DATE: MAY 4, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: LI - 1

Approved for Issuance
Madera - CED Building and Safety - Building Division
Fire Safety Review for the 2022 California Building Code
Date: 05/06/2026

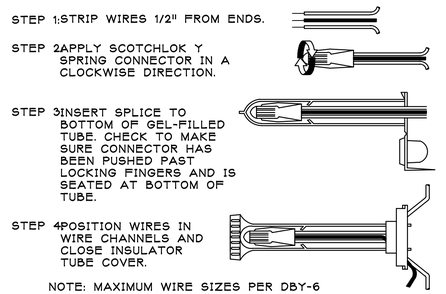


NOTES:
1. CENTER BOX OVER VALVE TO FACILITATE SERVICING VALVE.
2. SET BOXES 1" ABOVE FINISH GRADE OR MULCH COVER IN GROUND COVER/SHRUB AREA AND FLUSH WITH FINISH GRADE IN TURF AREA.
3. SET VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN AREA ONLY IF GROUND COVER/SHRUB AREA DOES NOT EXIST ADJACENT TO LAWN.
4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.
5. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOX EDGES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
6. VALVE BOXES SHALL HAVE BOLT DOWN LIDS WITH BOLTS INSTALLED.
7. VALVE BOXES SHALL BE BY CARSON, APPLIED ENGINEERING, OR EQUAL.

9 VALVE BOX INSTALLATION DETAIL
NOT TO SCALE

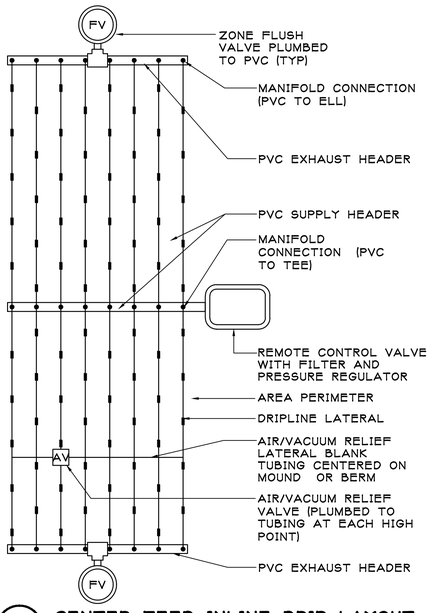


3 TREE BUBBLER DETAIL
NOT TO SCALE

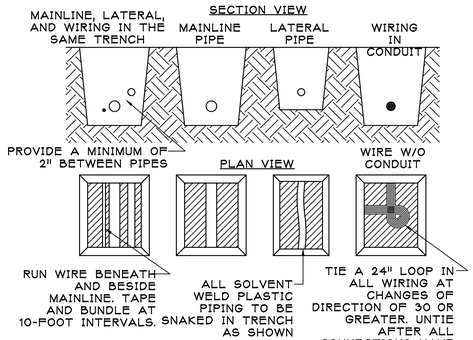


NOTE: MAXIMUM WIRE SIZES PER DBY-6 CONNECTOR ARE THREE #14'S OR TWO #12'S AND PER DBR-6 CONNECTOR ARE FOUR #14'S OR THREE #12'S.

4 WIRE CONNECTION DETAIL
NOT TO SCALE

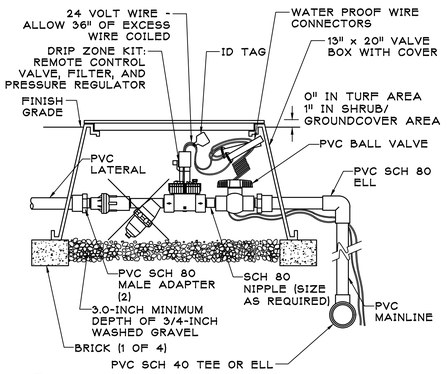


5 CENTER FEED INLINE DRIP LAYOUT
NOT TO SCALE

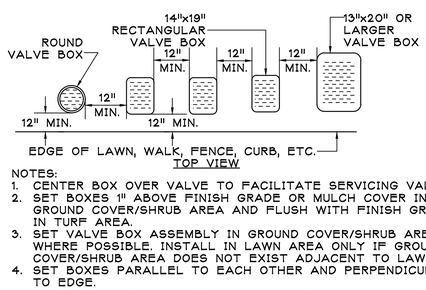


NOTES:
1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH CLASS 200 PVC TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN.
2. FOR PIPE AND WIRE BURIAL DEPTHS REFER TO IRRIGATION LEGEND AND SPECIFICATIONS.

6 PIPE AND WIRE TRENCHING
NOT TO SCALE

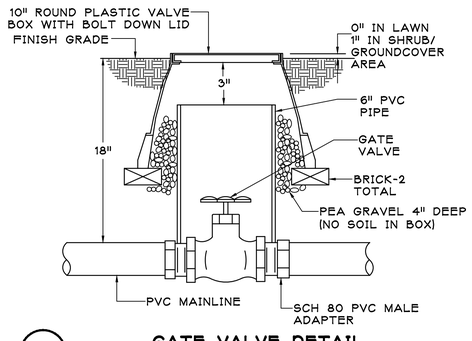


1 DRIP ZONE KIT
NOT TO SCALE

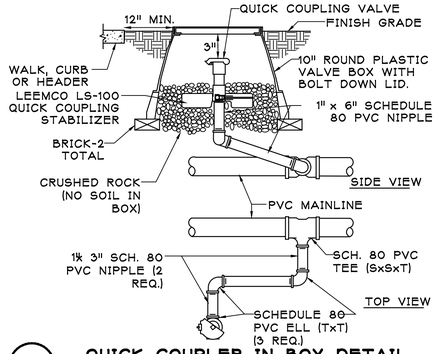


NOTES:
1. CENTER BOX OVER VALVE TO FACILITATE SERVICING VALVE.
2. SET BOXES 1" ABOVE FINISH GRADE OR MULCH COVER IN GROUND COVER/SHRUB AREA AND FLUSH WITH FINISH GRADE IN TURF AREA.
3. SET VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN AREA ONLY IF GROUND COVER/SHRUB AREA DOES NOT EXIST ADJACENT TO LAWN.
4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.
5. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOX EDGES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
6. VALVE BOXES SHALL HAVE BOLT DOWN LIDS WITH BOLTS INSTALLED.
7. VALVE BOXES SHALL BE BY CARSON, APPLIED ENGINEERING, OR EQUAL.

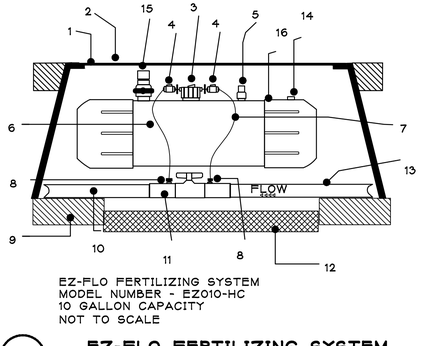
2 VALVE BOX INSTALLATION DETAIL
NOT TO SCALE



11 GATE VALVE DETAIL
NOT TO SCALE



12 QUICK COUPLER IN BOX DETAIL
NOT TO SCALE



EZ-FLO FERTILIZING SYSTEM
MODEL NUMBER - EZ010-HC
10 GALLON CAPACITY
NOT TO SCALE

NOTES:
1. FINISHED GRADE SHALL BE BY CARSON, APPLIED ENGINEERING, OR EQUAL.
2. VALVE BOX & COVER 36"L X 24"W X 24" H
3. PROPORTIONING CAP WITH FEED ADJUSTMENT KNOB
4. EZ-FLO SHUT OFF VALVES
5. AIR VENT VALVE
6. FERTILIZER OUT - CONNECT CLEAR TUBE TO GREEN CONNECTIONS ON PROPORTIONING CAP AND COUPLING
7. WATER IN - CONNECT BLACK TUBE TO BLUE CONNECTIONS ON PROPORTIONING CAP AND COUPLING
8. 1/4" TUBING CLAMP - BOTH THE GREEN AND BLUE COUPLING TUBING CONNECTIONS
9. APPROVED BACKFILL
10. PVC MAIN LINE TO VALVE MANIFOLD
11. EZ BALL VALVE COUPLING CONNECTOR -INSTALL ACCORDING TO WATER FLOW DIRECTION ARROW
12. PEA GRAVEL (3 CU. FT.)
13. PVC MAIN LINE FROM BACK FLOW PREVENTER
14. PRESSURE RELIEF VALVE
15. FILL VALVE (DRAIN VALVE INCLUDED BUT NOT SHOWN)
16. EZ-FLO MODEL EZ010-HC FERTILZATION SYSTEM 32"L X 12W X 18"H

NOTE:
ITEMS 3, 4, 5, 6, 7 AND 8 ARE INCLUDED WITH THE EZ-FLO SYSTEM. ITEM 11 IS PURCHASED SEPARATELY.

©2012 EZ-FLO FERTILIZING SYSTEMS, INC.

11 EZ-FLO FERTILIZING SYSTEM
NOT TO SCALE

BID DOCUMENTS

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

LICENSED LANDSCAPE ARCHITECT
TERRY R. BROUSSARD - No. 4098
SIGNATURE
EXP. 08/31/27
STATE OF CALIFORNIA

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND SHALL NOT BE USED IN WHOLE OR IN PART FOR ANY WORK. THEY ARE NOT TO BE USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. ANY UNAUTHORIZED USE OR DISCLOSURE OF THE CONTENTS OF THIS SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2023.
RRM IS A CALIFORNIA CORPORATION

BROUSSARD ASSOCIATES
landscape architects
389 Clovis Ave., Suite 200
Clovis, CA 93612
T 559.325.7284
F 559.325.7286

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

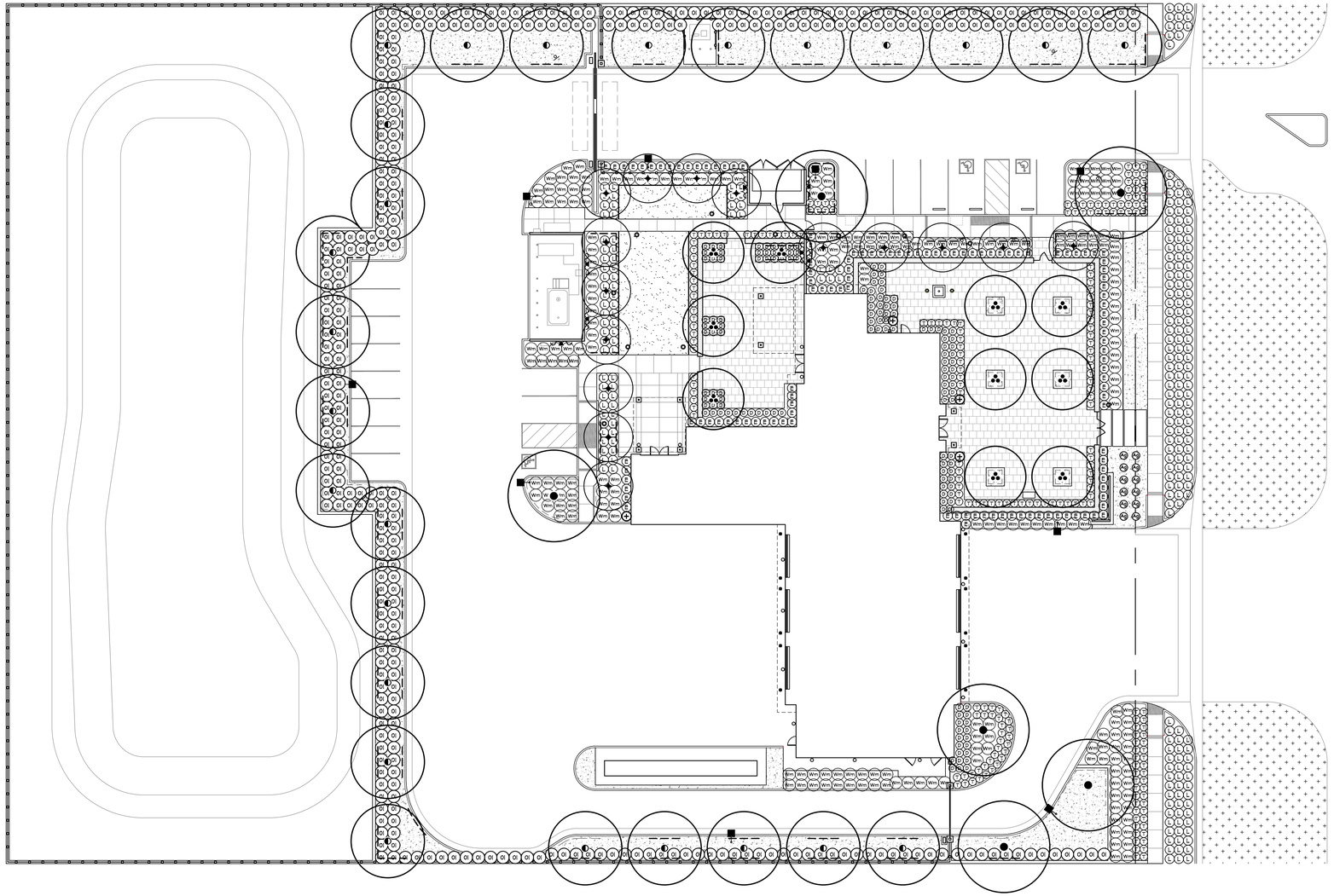
IRRIGATION DETAILS

NO.	REVISION	DATE

PROJECT MANAGER: MLS
DRAWN BY: TSB
CHECKED BY: MLS
DATE: APRIL 30, 2026
MAY 4, 2026

County of Madera Building Division
CED Building and Safety
Approved Plans
Subject to Field Approval, Laws, Codes and Ordinances, not valid unless signed
Building Permit Application Number 2471-01-CI21

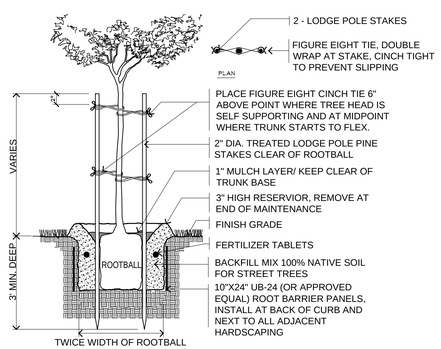
SHEET L1.2



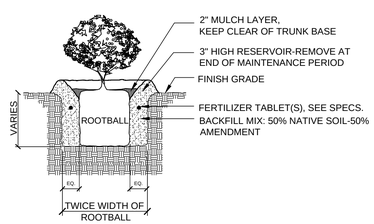
PLANT LEGEND

SYM	SIZE	BOTANICAL NAME / COMMON NAME	COMMENTS	WATER USAGE
TREES				
⊕	24" BOX	CUPRESSUS SEMPERVIRENS 'TINY TOWER' / CYPRESS	COLUMNAR	LOW
✦	24" BOX	LAURUS NOBILIS 'SARATOGA' / BAY LAUREL	STANDARD	LOW
⁂	12'x15' MIN	OLEA EUROPAEA 'WILSON FRUITLESS' / FIELD GROWN OLIVE	MULTI-TRUNK	LOW
◐	24" BOX	PINUS ELDARICA / AFGHAN PINE	STANDARD	LOW
●	36" BOX	QUERCUS VIRGINIANA / SOUTHERN LIVE OAK	STANDARD	LOW
SHRUBS				
Ag	5 GAL	AGAVE PARRYI VAR. TRUNCATA / ARTICHOKE AGAVE	30" O.C.	LOW
D	5 GAL	DIANELLA REVOLUTA 'LITTLE REV' / FLAX LILY	30" O.C.	LOW
E	5 GAL	EUONYMUS JAPONICUS 'GRANDIFOLIUS' / JAP. EUONYMUS	36" O.C.	LOW
L	1 GAL	LOMANDRA LONGIFOLIA 'LIME TUFF' / DWARF MAT RUSH	36" O.C.	LOW
Ol	5 GAL	OLEA E. 'MONTRA' / LITTLE OLLIE DWARF OLIVE	48" O.C.	LOW
T	1 GAL	TEUCRIUM CHAMAEDRYS / WALL GERMANDER	30" O.C.	LOW
Wm	5 GAL	WESTRINGIA FRUTICOSA 'MUNDI' / COAST ROSEMARY	48" O.C.	LOW
GROUNDCOVER				
		SYNTHETIC TURF - SYNAUGUSTINE 347 BY SYNLAWN OR EQUAL. INSTALLATION PER MANUFACTURER'S SPECIFICATIONS		
		3/8" CRUSHED ROCK. 3" THK. COLOR: CALIFORNIA GOLD.		
VINES				
	5 GAL	FICUS PUMILA / CREEPING FIG	STAKED	MED

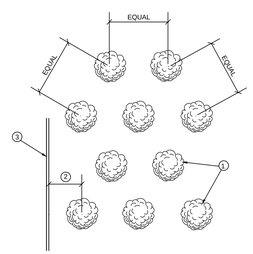
NOTE:
1) SHRUB AND TREE PLANTING PER DETAILS.
2) ROOT BARRIER: BIO-BARRIER OR EQUAL (10'X2' PANELS). INSTALL AT BACK OF CURB AND @ TREES



A TREE PLANTING
NOT TO SCALE

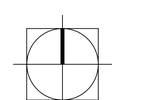


B SHRUB PLANTING
NOT TO SCALE



NOTES:
1. LOCATE PLANTS WITH EQUAL SPACING AS INDICATED ON PLAN (TRIANGULAR SPACING.)
2. 1/2 ON CENTER SPACING.
3. PAVING, BUILDING OR HEADER SHOWING PLANTING AREA LIMIT.

C GROUND COVER PLANTING
NOT TO SCALE



BID DOCUMENTS

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

LICENSED LANDSCAPE ARCHITECT
TERRY A. BROUSSARD No. 4068
SIGNATURE
DATE
EXP. 01/31/27
STATE OF CALIFORNIA

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. SUBMISSION OR DISTRIBUTION OF SPECIFICATIONS SHALL CONSTITUE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2023.
RRM IS A CALIFORNIA CORPORATION

BROUSSARD ASSOCIATES
landscape architects
389 Clovis Ave., Suite 200
Clovis, CA 93612
T 559.325.7284
F 559.325.7286

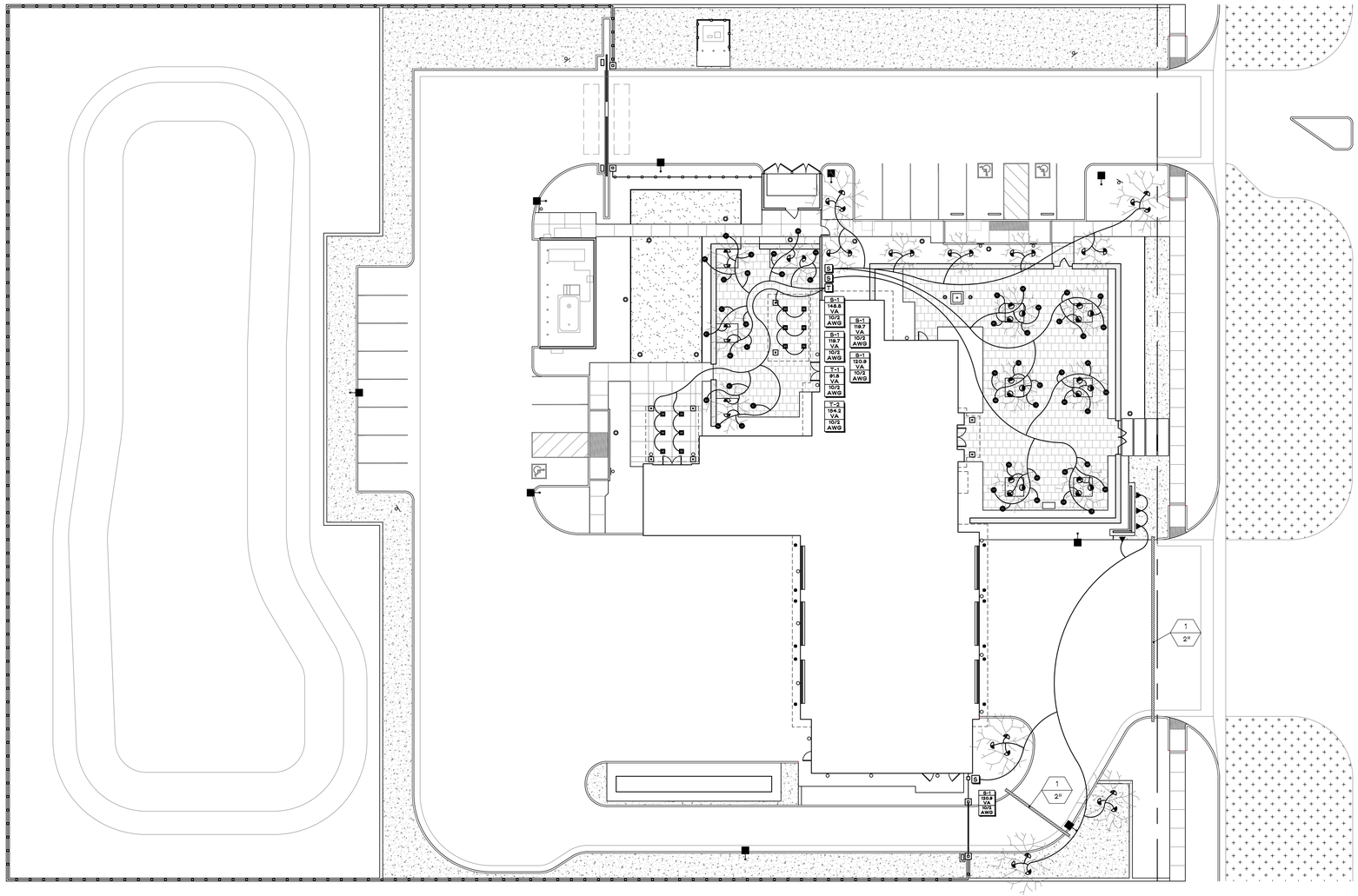
RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

PLANTING PLAN

NO.	REVISION	DATE

PROJECT MANAGER: MLS
DRAWN BY: TSB
CHECKED BY: CW
DATE: MAY 4, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: LP - 1

Approved under the 2022 California Building and Fire Code for Public Safety – Building Division – City of Madera – CED
Date: 05/06/2026



ELECTRICAL EQUIPMENT

SYMBOL	MANUFACTURER & MODEL NUMBER
T	FXL - LUX-300-SS TRANSFORMER/CONTROLLER W/ WIFI MODULE (FOR LOW VOLTAGE LIGHTING ONLY.)
S	FXL - LSAT-300-SS SATELLITE TRANSFORMER - CONNECT TO PRIMARY CONTROLLER VIA CAT5 CABLE IN CONDUIT, OR BY WIRELESS MODULE AS NEEDED

Sleeve Designation

1 — Quantity of Sleeves
2" — Sleeve Size

Sleeve Symbol

NOTES:
1. ALL LOW-VOLTAGE WIRE PATHS TO BE PLACED IN CONDUIT. DBY-6 CONNECTIONS AND FIXTURE LEAD PATHS TO BE TO BE BURIED DIRECTLY IN GROUND WITH MINIMUM 3" COVER OF SOIL OR CRUSHED ROCK (BARK MULCH NOT ACCEPTABLE).

2. ALL TREE DOWNLIGHTS TO RETAIN MAXIMUM LEAD LENGTH FOR FUTURE TREE GROWTH, AND FIXTURE RELOCATION.

3. ALL CONDUIT UNDER ROADWAYS OR THROUGH FOOTINGS TO BE ENCLOSED IN SCHEDULE 40 PVC TO PREVENT CONDUIT COLLAPSE OR DISPLACEMENT

LIGHT FIXTURES LEGEND

SYMBOL	WATTAGE / VA	QTY	MANUFACTURER & MODEL NUMBER	FINISH	MOUNT
■	7.7W / 9.3VA	36	FXL - DOWNLIGHT - SD-ZD-6LED-FB W/ 9LEDFLLENS (FLOOD LENS)	BLACK	BRACKET
●	2.0W / 2.4VA	70	FXL - HANGING DOWNLIGHT - LE-ZD-1LED-FB	BLACK	HANGING CABLE
◗	7.7W / 9.3VA	25	FXL - UPLIGHT - NP-ZD-6LED-FB	BLACK	SLOT SPIKE
▼	7.7W / 9.3VA	6	FXL - UPLIGHT/WALLWASH - LC-ZD-6LED-FB	BLACK	SLOT SPIKE
◓	11.1W / 12.2VA	18	FXL - WELL LIGHT - KG-ZD-9LED-FB	BLACK	DIRECT BURIAL OVER GRAVEL

NORTH

0 20' 40'

SCALE: 1"=20'

BID DOCUMENTS

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

LICENSED LANDSCAPE ARCHITECT
TERRY A. BROUSSARD — RLA 4068
SIGNATURE
EXP. 01/31/27
STATE OF CALIFORNIA

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. SUBMISSION OR DISTRIBUTION OF DRAWINGS OR SPECIFICATIONS SHALL CONSTITUE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2023.
RRM IS A CALIFORNIA CORPORATION

BROUSSARD ASSOCIATES
landscape architects
389 Clovis Ave., Suite 200
Clovis, CA 93612
T 559.325.7284
F 559.325.7286

RIVERSTONE FIRE STATION

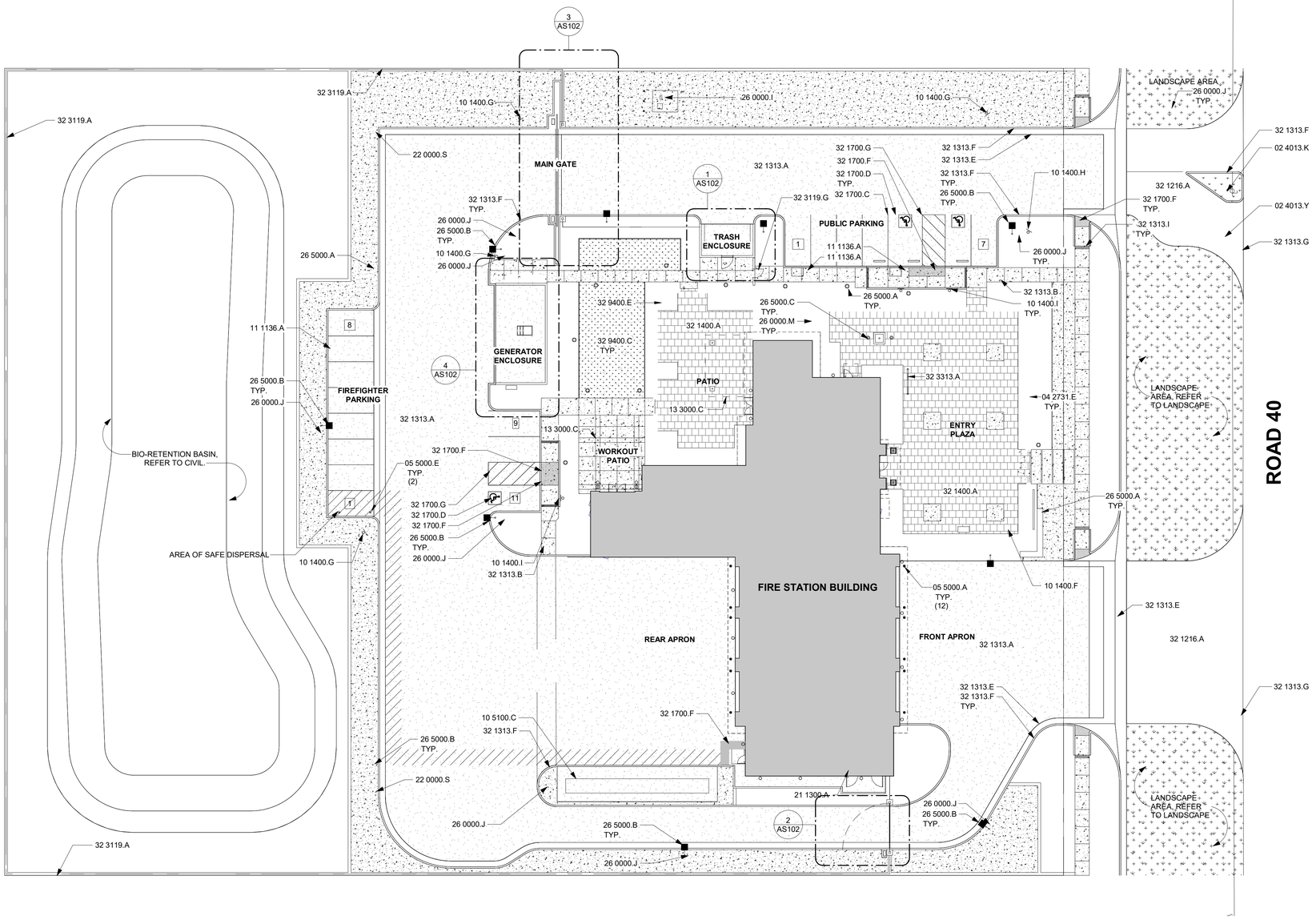
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

LANDSCAPE LIGHTING PLAN

NO.	REVISION	DATE

PROJECT MANAGER
MLS
DRAWN BY | CHECKED BY
TSB | CW
DATE
MAY 4, 2026
PROJECT NUMBER
2471-01-CI21
SHEET
LL - 1

County of Madera – CED Building and Fire Safety – Building Division
Plans Approved under the 2022 California Building Code
Date: 05/06/2026



1 ARCHITECTURAL FLOOR PLAN

A-201 | AS101 SCALE: 1" = 20'-0"

GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY SERVICES DURING CONSTRUCTION.
2. CONTRACTOR IS TO CONFIRM (E) GRADES WHERE THE ACCESSIBLE PATH IS PROPOSED.
3. BIDDERS ARE REQUIRED TO VISIT THE SITE AND VERIFY CONDITIONS PRIOR TO SUBMITTING BIDS.
4. THE SITE WORK ITEMS SHOWN MAY NOT REPRESENT ALL ITEMS WHICH MAY REQUIRE CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY EXAMINE THE SITE AND RECONSTRUCT WHAT MAY BE REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.
5. FIRE SAFETY DURING CONSTRUCTION: PRIOR TO CONSTRUCTION, AN OPERATIONAL WATER SUPPLY SYSTEM AND ESTABLISHED ACCESS ROADS MUST BE INSTALLED. CFC SECTION 503.1 & 508. DURING CONSTRUCTION ALL APPLICABLE PULBLIC RESOURCES CODES MUST BE COMPLIED WITH TO PREVENT A WILDFIRE. THESE WILL INCLUDE THE USE OF SPARK ARRESTERS, ADEQUATE CLEARANCE AROUND WELDING OPERATIONS, SMOKING RESTRICTIONS AND HAVING EXTINGUISHERS ON SITE. THE INDUSTRIAL OPERATIONS FIRE PREVENTION FIELD GUIDE WILL ASSIST THE CONTRACTOR.
6. ALL SEWER LATERALS AND CONNECTIONS MUST BE TO COUNTY OF MADERA STANDARDS.

KEYNOTES

02 4013.K	EXISTING POWER POLE TO BE PROTECTED IN PLACE
02 4013.Y	EXISTING OVERHEAD POWER LINES TO REMAIN
04 2731.E	CMU SITE WALL, REFER TO LANDSCAPE.
05 5000.A	CONCRETE FILLED METAL BOLLARD
05 5000.E	REMOVABLE BOLLARD REFER TO SITE DETAILS
10 1400.F	MONUMENT SIGN PER LANDSCAPE
10 1400.G	POSTED FIRE LANE "NO STOPPING FIRE LANE". STANDARD R26F (CA)
10 1400.H	ACCESSIBLE PARKING ADDITIONAL SIGNAGE
10 1400.I	ACCESSIBLE PARKING SIGN
10 5100.C	HOSE RACK
11 1136.A	VEHICLE CHARGING STATION, SEE ELECTRICAL.
13 3000.C	CUSTOM FABRICATED SHADE STRUCTURE, REFER TO LANDSCAPE.
21 1300.A	FIRE RISER. REFER TO PLUMBING
22 0000.S	VEHICLE WASH/STORM DRAIN/SEWER DRAIN. REFER TO CIVIL.
26 0000.I	TRANSFORMER, REFER TO ELECTRICAL
26 0000.J	ELECTRICAL BOX, REFER TO ELECTRICAL.
26 0000.M	CONNECTION TO LANDSCAPE POWER SUPPLY, REFER TO ELECTRICAL.
26 5000.A	LIGHT FIXTURE. REFER TO ELECTRICAL
26 5000.B	POLE-MOUNTED PARKING LIGHT FIXTURE. REFER TO ELECTRICAL
26 5000.C	FLAG POLE LIGHT. REFER TO ELECTRICAL
32 1216.A	ASPHALT PAVING REFER TO CIVIL
32 1313.A	CONCRETE PAVING FOR VEHICULAR USE. REFER TO CIVIL
32 1313.B	CONCRETE PAVING FOR PEDESTRIAN USE. REFER TO CIVIL.
32 1313.E	CONCRETE GUTTER. REFER TO CIVIL
32 1313.F	CONCRETE CURB. REFER TO CIVIL
32 1313.G	NEW DRIVEWAY APRON, REFER TO CIVIL
32 1313.I	CONCRETE WARNING GROOVES. REFER TO CIVIL
32 1400.A	PRECAST CONCRETE UNIT PAVING, REFER TO CIVIL AND LANDSCAPE.
32 1700.C	PARKING SPACE STRIPING, SEE CIVIL
32 1700.D	ACCESSIBLE PARKING SPACE STRIPING, SEE CIVIL
32 1700.F	DETECTABLE WARNING, SEE CIVIL
32 1700.G	ACCESSIBLE WALKWAY STRIPING, SEE CIVIL
32 3119.A	DECORATIVE METAL FENCE, SEE LANDSCAPE DRAWINGS.
32 3119.G	PEDESTRIAN GATE, WITH LOCK
32 3313.A	BICYCLE RACK
32 9400.C	TURF. SEE LANDSCAPE
32 9400.E	LANDSCAPING. SEE LANDSCAPE

TYPICAL SITE DETAILS

SITE ITEM	DETAIL REFERENCE
SIGN POST/ BIKE RACK FOOTING	11 / AS901
SLIDING GATE ELEVATION	22 / AS901
CMU ENCLOSURE / SITE WALL	14 / AS901
SITE COLUMN	24 / AS901
REMOVABLE BOLLARD	12 / AS902
SLIDING GATE PEDESTAL PLAN	32 / AS901
SLIDING GATE PEDESTAL ELEVATION	33 / AS901
SLIDING GATE PEDESTAL FOOTING	34 / AS901
FIXED BOLLARD / GATE SENSOR	32 / AS902
SLIDING GATE GUIDE & POST	43 / AS901
FIXED BOLLARD	14 / AS902
PATIO GATE	51 / AS901
SWING GATE HINGE	52 / AS901
FENCE POST / SHADE STR. FOOTING	53 / AS901
SLIDING GATE V-TRACK	54 / AS901

LEGEND

- CONCRETE PAVING
- ASPHALT CONCRETE PAVING
- PROPERTY LINE

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DRAWINGS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C 31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

ARCHITECTURAL SITE PLAN

NO.	REVISION	DATE

PROJECT MANAGER
MLS
DRAWN BY | **CHECKED BY**
CW
DATE
MAY 4, 2026
PROJECT NUMBER
2471-01-CI21
SHEET
AS101

BID DOCUMENTS

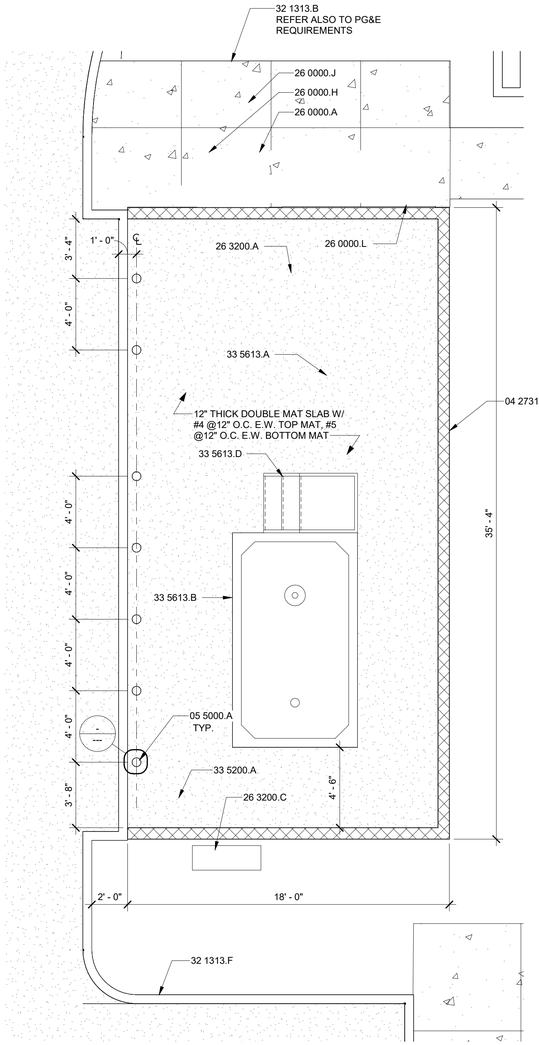
County of Madera – CED Building and Fire Safety – Building Division
Construction Plans Approved under the 2022 California Building Codes
Date: 05/04/2026
Subject to Field Approval, Laws, Codes and Ordinances, not valid without signature

DOOR SCHEDULE

NO.	SIZE		REMARKS
	WIDTH	HEIGHT	
G01	4' - 0"	7' - 0"	SELF-CLOSER, ACCESS CONTROL LOCK WITH KEYPAD
G02	3' - 0"	7' - 0"	SELF-CLOSER, ACCESS CONTROL LOCK WITH KEYPAD

KEYNOTES

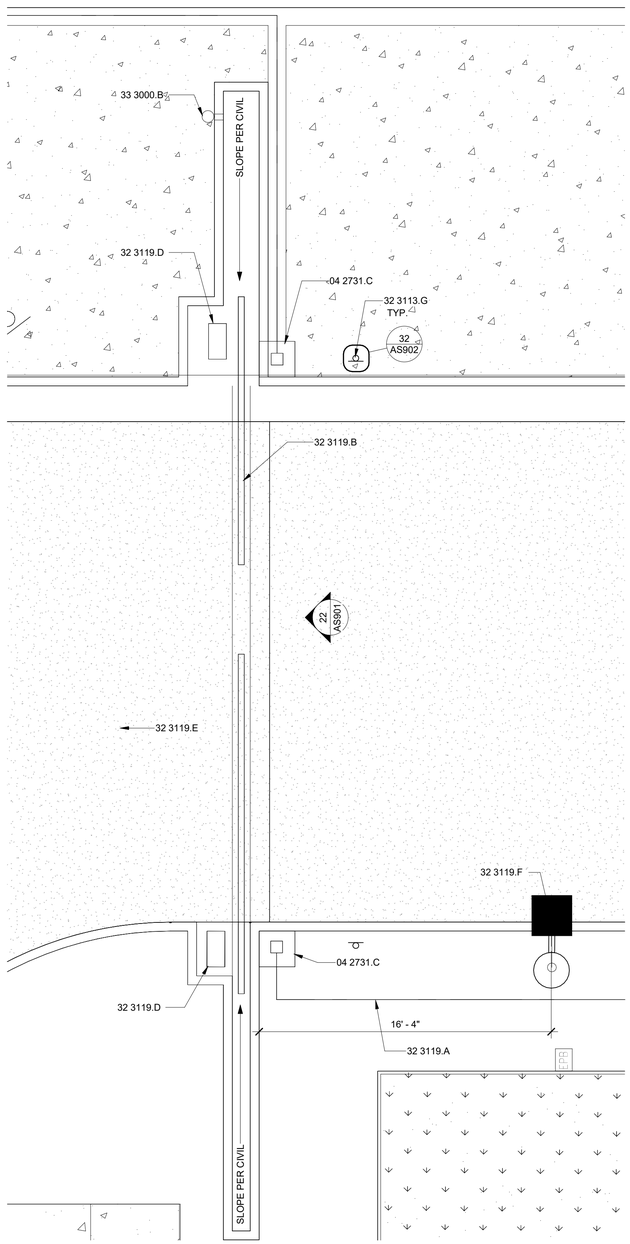
04 2731.B	CMU SITE WALL
04 2731.C	CMU SITE COLUMN
05 5000.A	CONCRETE FILLED METAL BOLLARD
26 0000.A	ELECTRICAL MAIN SWITCH BOARD. REFER TO ELECTRICAL
26 0000.H	AUTOMATIC TRANSFER SWITCH. REFER TO ELECTRICAL
26 0000.J	ELECTRICAL BOX, REFER TO ELECTRICAL.
26 0000.L	EQUIPMENT RACK, REFER TO ELECTRICAL.
26 3200.A	EMERGENCY GENERATOR, REFER TO ELECTRICAL.
26 3200.C	GENERATOR CONNECTION PANEL, REFER TO ELECTRICAL.
26 5000.A	LIGHT FIXTURE. REFER TO ELECTRICAL
32 1313.B	CONCRETE PAVING FOR PEDESTRIAN USE. REFER TO CIVIL.
32 1313.E	CONCRETE GUTTER. REFER TO CIVIL
32 1313.F	CONCRETE CURB. REFER TO CIVIL
32 3113.G	BOLLARD WITH GATE SENSOR
32 3119.A	DECORATIVE METAL FENCE, SEE LANDSCAPE DRAWINGS.
32 3119.B	SLIDING DECORATIVE METAL SECURITY GATE
32 3119.C	SWING DECORATIVE METAL SECURITY GATE
32 3119.D	GATE OPERATOR
32 3119.E	AUTOMATIC SENSOR LOOP SAW CUT INSTALLATION AS REQUIRED
32 3119.F	PEDESTAL WITH GATE ACCESS DEVICE
32 3119.G	PEDESTRIAN GATE, WITH LOCK
33 3000.B	SITE DRAIN, REFER TO CIVIL DRAWINGS.
33 5200.A	FUEL DISPENSER ON WALL-MOUNTED SHELF. SEE PLUMBING DRAWINGS.
33 5613.A	CONNECTION FROM FUEL TANK TO GENERATOR. REFER TO CIVIL AND SPEC
33 5613.B	ABOVE GROUND FUEL TANK, MAXIMUM EMPTY WEIGHT 9,000 LBS.
33 5613.D	PRE-FABRICATED STEEL STAIRS AND PLATFORM WITH HANDRAIL TO ACCESS FUEL FILLER



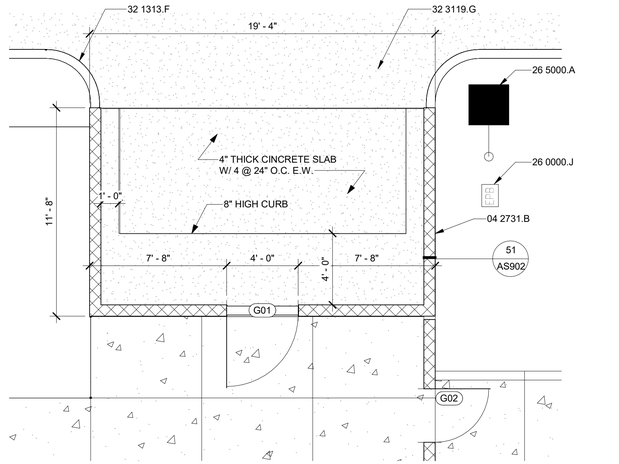
NOTES:

1. PROVIDE UNISTRUT SUPPORT AS REQUIRED TO SUPPORT AND PROTECT PIPES.
2. MOUNT A.T.S. AND ELECTRICAL MAIN FLUSH TO CMU WALL. PROVIDE SEALANT AND FLASHING AS REQUIRED AT ALL SIDES OF CONNECTION TO WALL.

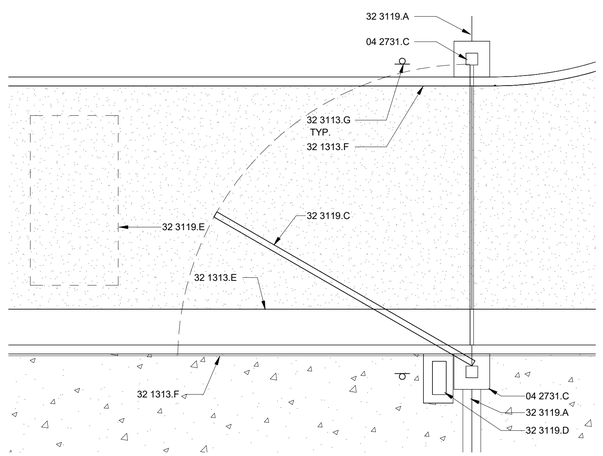
4 GENERATOR ENCLOSURE
AS101 | AS102 SCALE: 1/4" = 1'-0"



3 AUTOMATIC SLIDING GATE
AS101 | AS102 SCALE: 1/4" = 1'-0"



1 TRASH ENCLOSURE
AS101 | AS102 SCALE: 1/4" = 1'-0"



2 AUTOMATIC SWING GATE
AS101 | AS102 SCALE: 1/4" = 1'-0"

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SHOULD CONSTRUCTION COMMENCE, USE OF THESE PLANS SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C 31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

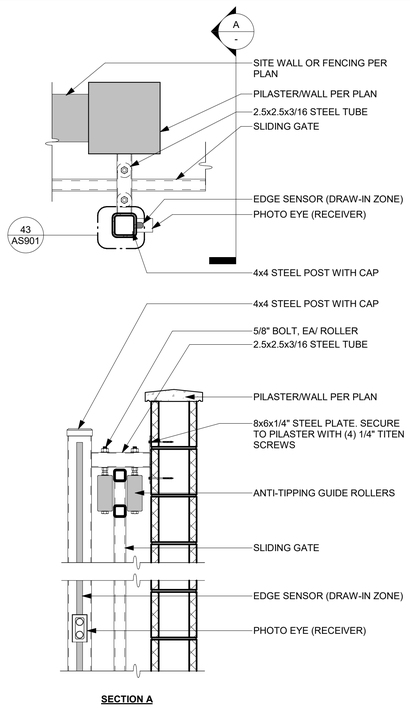
ENLARGED SITE PLANS

NO.	REVISION	DATE

PROJECT MANAGER: MLS
DRAWN BY: CW
CHECKED BY: CW
DATE: MAY 4, 2026
Date: 05/04/2026
PROJECT NUMBER: 2471-01-CI21
SHEET: AS102

County of Madera – CFD Building and Fire Safety
Approved Plans
Under the 2022 California Building Code
Plans and Ordinances, not to be changed without signature

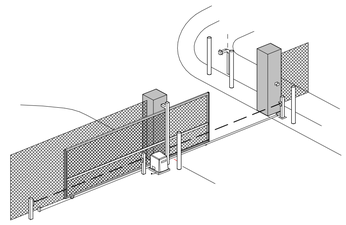
4/30/2026 3:48:35 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt

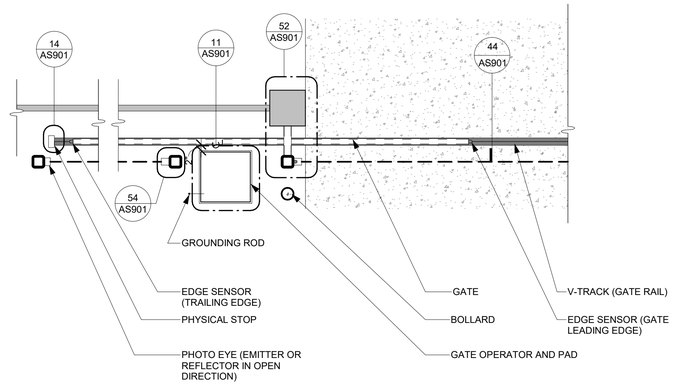


SECTION A

52 SLIDING GATE - POST

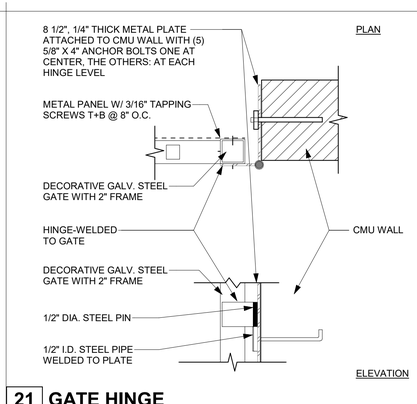
A501 A901 SCALE: 1" = 1'-0"





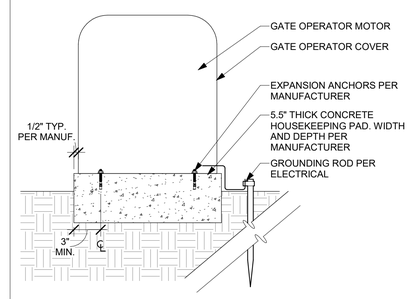
42 SLIDING GATE - PLAN

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



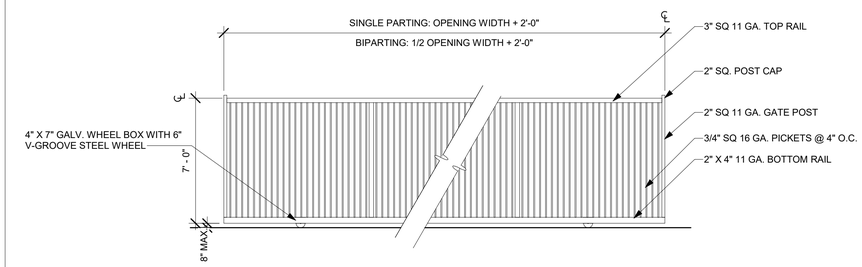
21 GATE HINGE

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



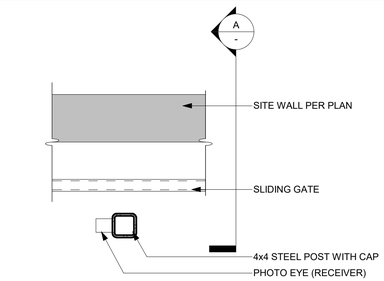
11 MOTOR HOUSEKEEPING PAD

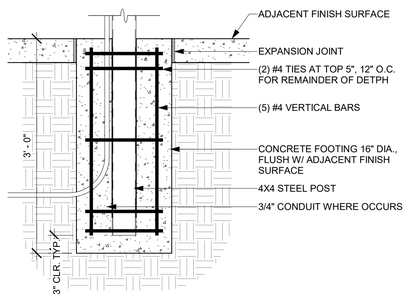
A501 A901 SCALE: 1 1/2" = 1'-0"



22 SLIDING GATE - ELEVATION

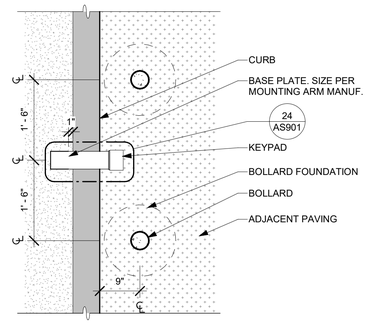
A5102 A901 SCALE: 1/4" = 1'-0"





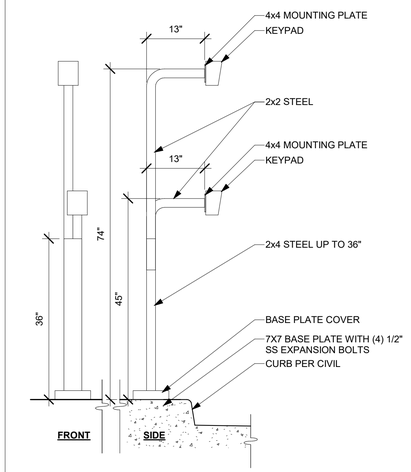
43 SLIDING GATE - POST FOUNDATION

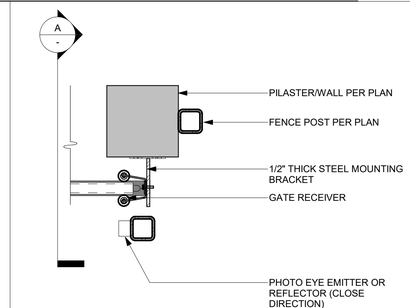
A501 A501 SCALE: 1" = 1'-0"

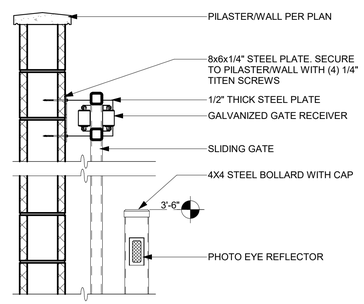


33 SLIDING GATE PEDESTAL (PLAN)

A501 SCALE: 3/4" = 1'-0"



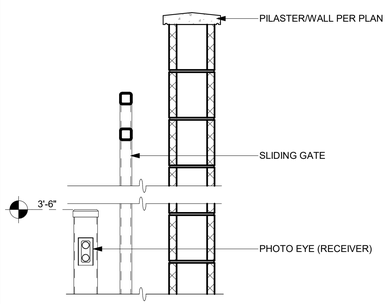




SECTION A

14 SLIDING GATE - GATE RECEIVER

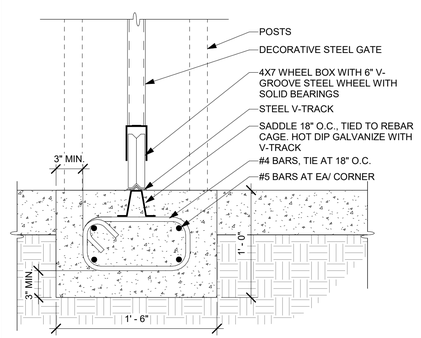
A501 A901 SCALE: 1" = 1'-0"



SECTION A

54 SLIDING GATE - INTERMEDIATE POST

A501 A901 SCALE: 1" = 1'-0"



44 SLIDING GATE V-TRACK

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

24 MOUNTING POST - DUAL GOOSENECK

A501 A501 SCALE: 3/4" = 1'-0"

4/30/2026 3:48:35 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SHOULD CONSTRUCTION BEGIN ON ANY PORTION OF THE WORK, SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

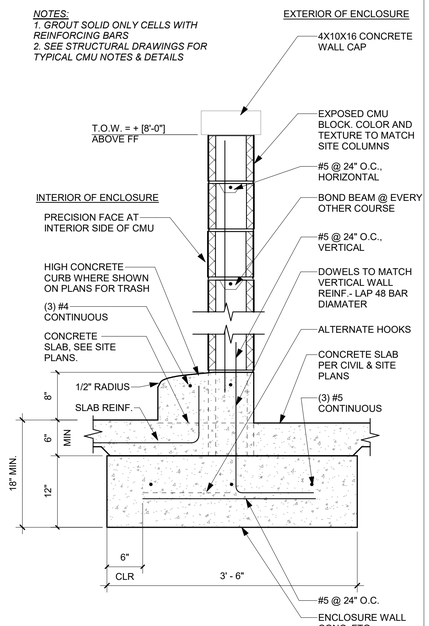
SITE DETAILS

NO.	REVISION	DATE

PROJECT MANAGER
MLS
DRAWN BY
CW
CHECKED BY
MLS
DATE
MAY 4 2026
PROJECT NUMBER
2471-01-CI21

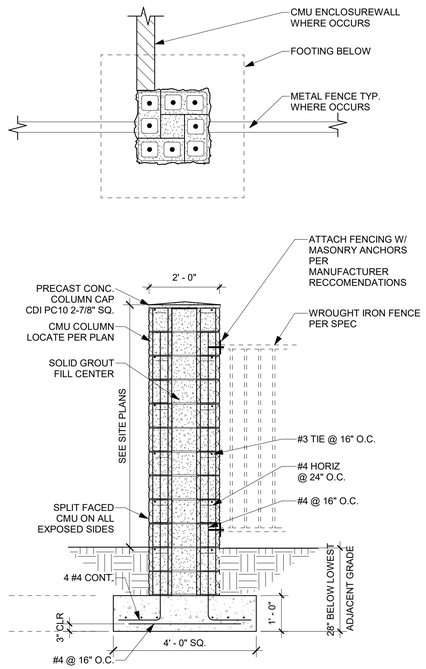
County of Madera – CED Building and Fire Safety
Permit Issuance Under this 2022 California Building Codes Adoptions Apply
Date 05/04/2026
Building Division Staff is Unable to Verify Inspections Made Under Codes and Ordinances, not valid without signature

SHEET
AS901



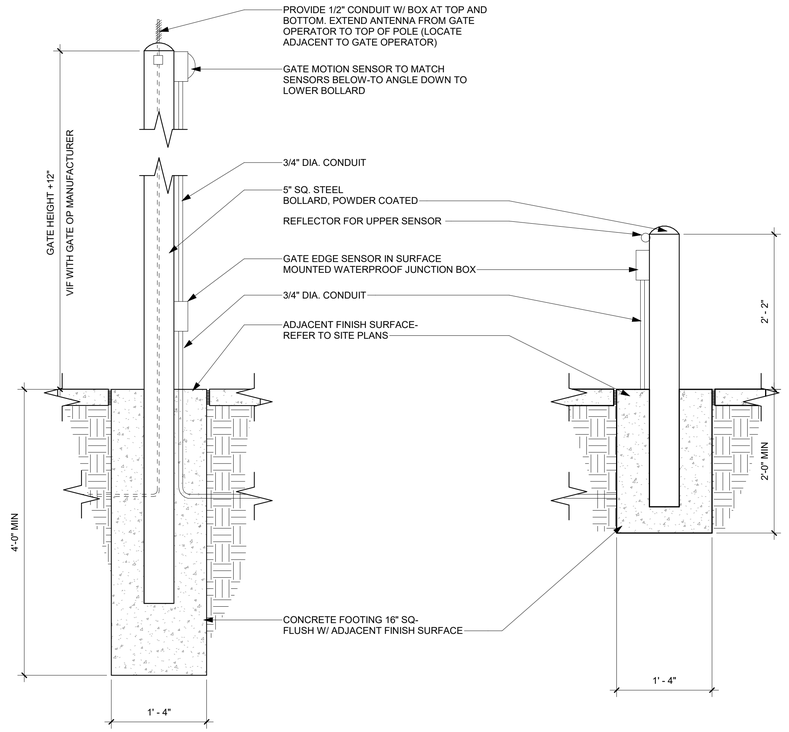
51 CMU ENCLOSURE/ SITE WALL

A0102 A0902 SCALE: 1" = 1'-0"



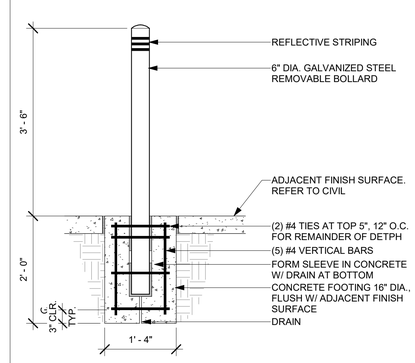
41 SITE COLUMN

A0902 A0902 SCALE: 1/2" = 1'-0"



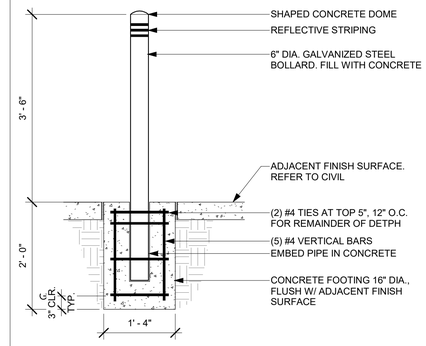
32 FIXED BOLLARD W/ GATE SENSOR

A0102 A0902 SCALE: 1" = 1'-0"



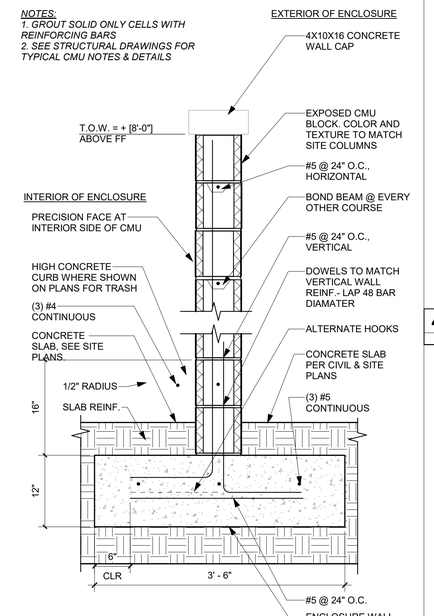
11 BOLLARD - REMOVABLE

A0902 SCALE: 3/4" = 1'-0"



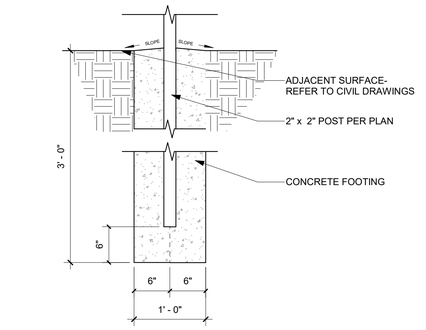
12 BOLLARD - FIXED

A0902 SCALE: 3/4" = 1'-0"



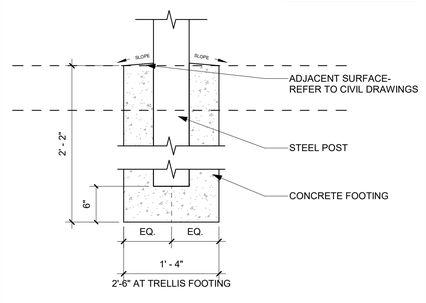
54 TYPICAL SITE WALL

A0902 SCALE: 1" = 1'-0"



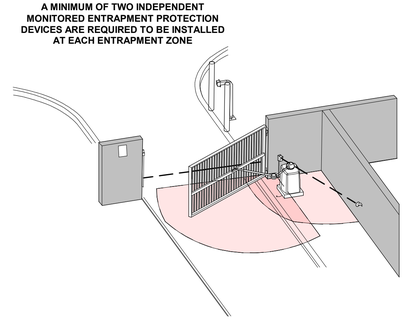
42 SIGN POST FOOTING

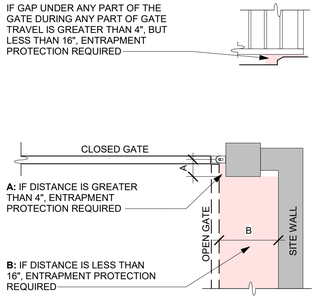
A0902 SCALE: 1" = 1'-0"



43 FENCE POST FOOTING

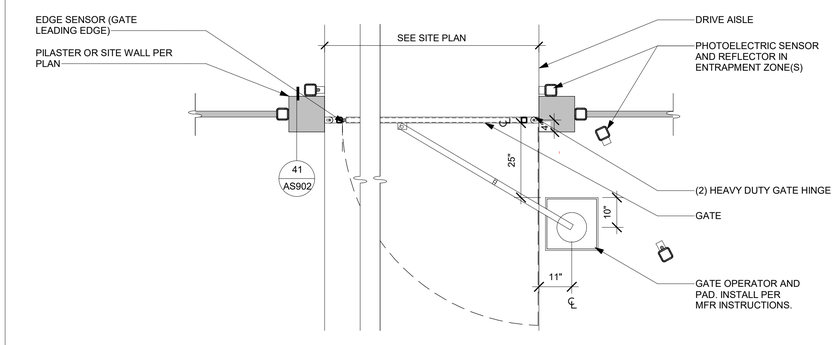
A0902 SCALE: 1" = 1'-0"





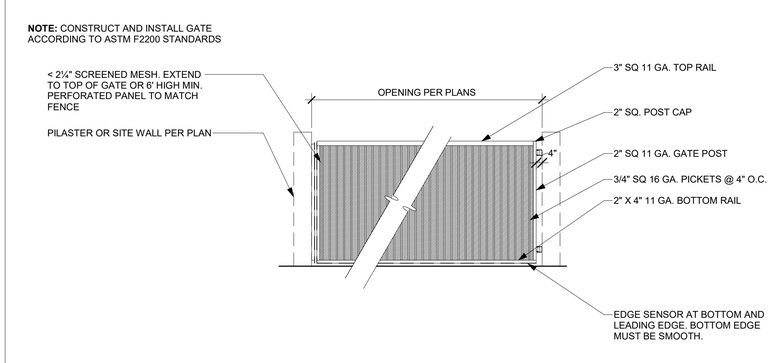
34 SWING GATE - ENTRAPMENT ZONES

A0902 SCALE: 1 1/2" = 1'-0"



23 SWING GATE - PLAN

A0902 SCALE: 1/2" = 1'-0"



24 SWING GATE - ELEVATION

A0902 SCALE: 1/4" = 1'-0"

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SHOULD CONSENT BE GIVEN, THIS DOES NOT CONSTITUTE A SALE AND SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

SITE DETAILS

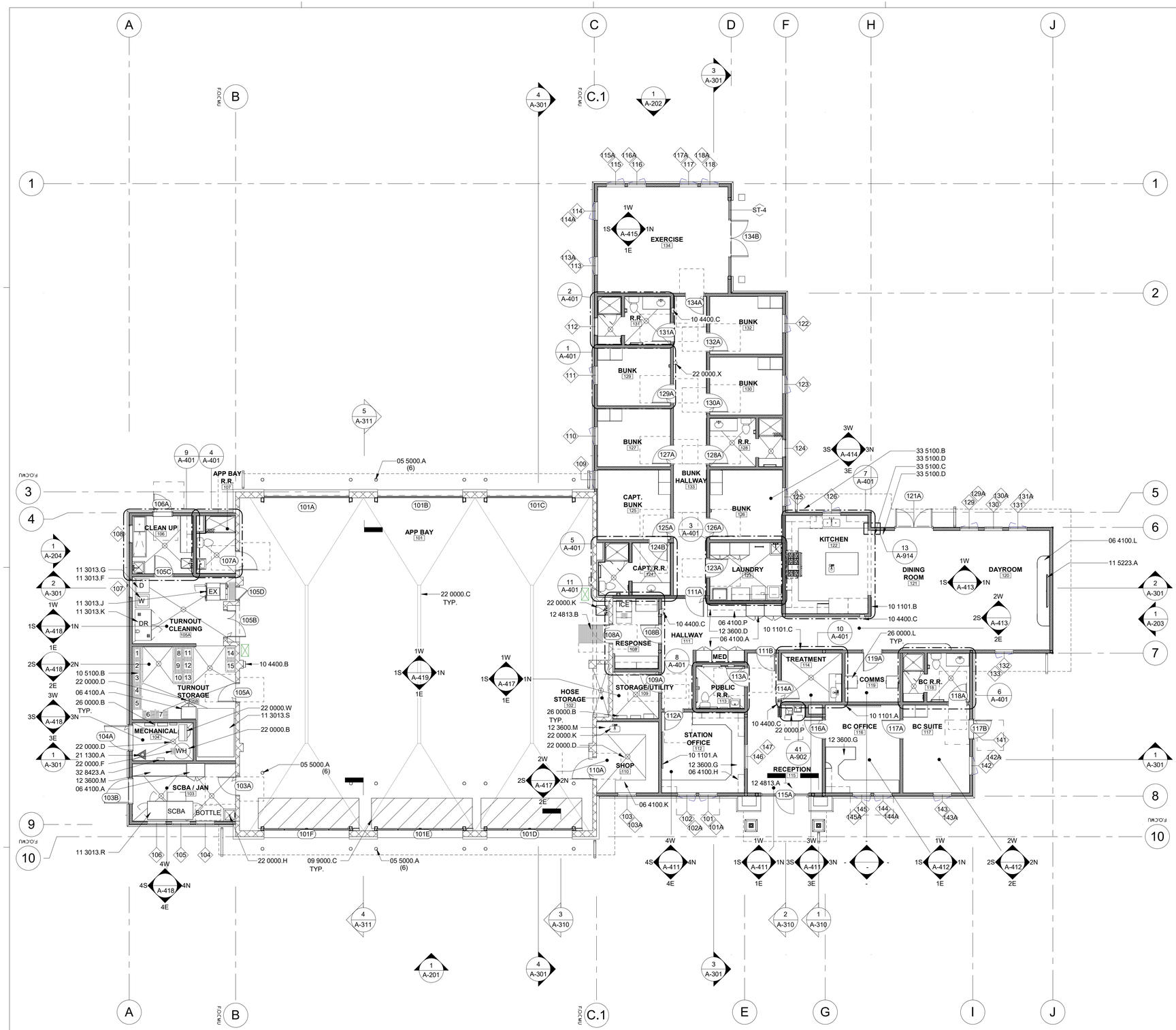
NO.	REVISION	DATE

PROJECT MANAGER: MLS
DRAWN BY: CW
CHECKED BY: CW
DATE: MAY 4 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: AS902

BID DOCUMENTS

County of Madera – CEO Building and Fire Safety
Plans Approved Under the 2022 California Building Code
Date: 05/04/2026
Not Valid Without Codes and Ordinances, and Valid Permit Signature

4/30/2026 3:48:35 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt



1 ARCHITECTURAL FLOOR PLAN

A-201 | A-101

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

4/30/2026 3:48:37 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt

GENERAL NOTES

1. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.
2. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION.
3. REFER TO MECHANICAL PLANS FOR FURTHER INFORMATION.
4. REFER TO PLUMBING PLANS FOR FURTHER INFORMATION.
5. REFER TO FINISH PLAN AND SCHEDULE FOR INTERIOR WALL, CEILING AND FLOOR FINISH INFORMATION.
6. DIMENSIONS ARE TO FACE OF SHEATHING OR CMU U.N.O
7. PROVIDE ADEQUATE BLOCKING IN WALLS FOR CABINETS AND OTHER WALL MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO HANDRAILS, SHELVING AND BATHROOM FIXTURES, WHITEBOARDS, & BULLETIN BOARDS
9. PROVIDE FIRE BLOCKING FOR WALL CAVITIES THAT EXCEED CBC HEIGHT LIMITATION.
10. REFER TO ELEVATIONS FOR CLERESTORY WINDOW TAGS.
11. PROVIDE ADDITIONAL SHEATHING AT ALL WALLS W/ SHEAR WALL SHEATHING FOR A SMOOTH AND FLUSH FINISH. FULL EXTENT OF WALL LINE TO AVOID ANY STEPS IN FINISH.
12. ALL SURFACE MOUNTED CONDUIT TO BE PAINTED TO MATCH INTERIOR WALL COLOR.
14. SEE SHEET A-102 FOR WALL TYPE TAGS.
15. SEE FF&E PLAN FOR FURNITURE AND EQUIPMENT NOT SHOWN.

KEYNOTES

05 5000.A	CONCRETE FILLED METAL BOLLARD
06 4100.A	FULL HT. CABINETS W/ ADJUSTABLE SHELVING & DOORS.
06 4100.H	UPPER CABINETS W/DOORS & ADJUSTABLE SHELVING.
06 4100.K	BASE CABINETS W/ DRAWERS, DOORS & ADJUSTABLE SHELVING
06 4100.L	BASE CABINET WITH EXPOSED SHELVING
06 4100.P	MAIL SLOTS MOUNTED TO TOP OF BASE CABINET
09 9000.C	WARNING STRIPING
10 1101.A	WALL-MOUNTED MARKERBOARD
10 1101.B	WALL-MOUNTED TACKBOARD
10 1101.C	WALL-MOUNTED MAP BOARD
10 4400.B	SURFACE MOUNTED FIRE EXTINGUISHER CABINET WITH EXTINGUISHER
10 4400.C	SEMI-RECESSED FIRE EXTINGUISHER CABINET WITH EXTINGUISHER
10 5100.B	TURNOUT LOCKERS, REFER SPECS.
11 3013.F	WASHER
11 3013.G	DRYER
11 3013.J	WASHER EXTRACTOR
11 3013.K	TURNOUT DRYER
11 3013.R	SCBA MODEL VNIII 18H-E3
11 3013.S	DETOX SAUNA
11 5223.A	WALL MOUNTED BRACKET FOR MONITOR WITH SOLID BLOCKING SUPPORT
12 3600.D	PLASTIC LAMINATE COUNTERTOP & BACKSPLASH
12 3600.G	PLASTIC LAMINATE WORKSURFACE W/METAL SUPPORT BRACKETS.
12 3600.M	GALVANIZED COUNTERTOP WITH MARINE EDGE
12 4813.A	FLUSH ENTRANCE MAT IN FRAME
12 4813.B	METAL WALK OFF GRILL
21 1300.A	FIRE RISER. REFER TO PLUMBING
22 0000.B	WATER HEATER. REFER TO PLUMBING
22 0000.C	TRENCH DRAIN SYSTEM. REFER TO PLUMBING
22 0000.D	FLOOR DRAIN. REFER TO PLUMBING
22 0000.F	FLOOR SINK. REFER TO PLUMBING
22 0000.H	MOP SINK. REFER TO PLUMBING
22 0000.K	SINK. REFER TO PLUMBING
22 0000.P	HI LOW DRINKING FOUNTAIN REFER TO PLUMBING
22 0000.W	AIR COMPRESSOR, REFER TO PLUMBING.
22 0000.X	WATER BOTTLE FILLER, REFER TO PLUMBING.
26 0000.B	ELECTRICAL PANEL. REFER TO ELECTRICAL
26 0000.L	EQUIPMENT RACK, REFER TO ELECTRICAL.
32 8423.A	IRRIGATION CONTROLLER. SEE LANDSCAPE AND ELECTRICAL
33 5100.B	GAS RESET BUTTON - BBQ
33 5100.C	GAS RESET BUTTON - STOVE
33 5100.D	GAS SHUT OFF BUTTON AT STOVE & BBQ - REFER TO PLUMBING & ELECTRICAL

WALL TYPE SCHEDULE

TYPE	SYMBOL	DESCRIPTION	DETAIL
A1		**EXTERIOR - 8" CMU** W/ STONE VENEER	11 / A-910
A2		**EXTERIOR - 12" CMU** W/ STONE VENEER	
B1		**EXTERIOR - 8" CMU** W/ BOARD AND BATTEN	12 / A-910
B2		**EXTERIOR - 12" CMU** W/ BOARD AND BATTEN	
E1		**INTERIOR - 8" CMU** W/ 2X FURRING & GWB	13 / A-910
E2		**INTERIOR - 8" CMU** W/ 4X FURRING & GWB	
G		**INTERIOR - 8" CMU,** EXPOSED BLOCK BOTH SIDES	14 / A-910
H		**EXTERIOR - 2X6 WOOD STUD** W/ BOARD & BATTEN	21 / A-910
I		**EXTERIOR - 2X6 WOOD STUD** W/ FURRING AND BOARD & BATTEN	22 / A-910
J		**EXTERIOR - 2X6 WOOD STUD** W/ CEMENT PLASTER	23 / A-910
K		**INTERIOR - 2X6 WOOD STUD** W/ GWB	24 / A-910 31 / A-910
L		**INTERIOR - 2X6 WOOD STUD** 1/2 HOUR FIRE-RATED W/ GWB	32 / A-910
ST		**STOREFRONT** - REFER TO DOOR & WINDOW SCHEDULE FOR MORE INFORMATION	

WALL TYPE NOTES:

1. ALL GYPSUM WALL BOARD TO BE FULL-HEIGHT.
2. REFER TO STRUCTURAL DRAWINGS FOR LOCATIONS OF ADDITIONAL SHEATHING AT SHEARWALLS.
3. SEE SLAB PLAN ON SHEET A-141 FOR LOCATIONS OF CONCRETE CURBS UNDER WALLS.
4. PROVIDE R-13 BATT SOUND INSULATION AT ALL INTERIOR PARTITIONS.
5. REFER TO ENERGY PLANS FOR INSULATION R-VALUES AT EXTERIOR WALLS.
6. SEE EXTERIOR ELEVATIONS FOR WALL LOCATIONS NOT SHOWN ON PLANS.
7. SEE EXTERIOR ELEVATIONS FOR LOCATIONS OF STONE WAINSCOT.

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SHOULD CONSTRUCTION BEGIN, IT SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C 31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

ARCHITECTURAL FLOOR PLAN

NO.	REVISION	DATE

PROJECT MANAGER: MLS
DRAWN BY
CHECKED BY: CW
DATE: MAY 4 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: A-101

BID DOCUMENTS

County of Madera – CFD Building and Fire Safety
Approved Under the 2022 California Building Codes and Ordinances, not to be altered without signature
Date: 05/04/2026

1 ARCHITECTURAL DIMENSION PLAN

A-201 | A-102

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

GENERAL NOTES

1. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.
2. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION.
3. REFER TO MECHANICAL PLANS FOR FURTHER INFORMATION.
4. REFER TO PLUMBING PLANS FOR FURTHER INFORMATION.
5. REFER TO FINISH PLAN AND SCHEDULE FOR INTERIOR WALL, CEILING AND FLOOR FINISH INFORMATION.
6. DIMENSIONS ARE TO FACE OF SHEATHING OR CMU U.N.O
7. PROVIDE ADEQUATE BLOCKING IN WALLS FOR CABINETS AND OTHER WALL MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO HANDRAILS, SHELVING AND BATHROOM FIXTURES, WHITEBOARDS, & BULLETIN BOARDS
9. PROVIDE FIRE BLOCKING FOR WALL CAVITIES THAT EXCEED CBC HEIGHT LIMITATION.
10. REFER TO ELEVATIONS FOR CLERESTORY WINDOW TAGS.
11. PROVIDE ADDITIONAL SHEATHING AT ALL WALLS W/ SHEAR WALL SHEATHING FOR A SMOOTH AND FLUSH FINISH. FULL EXTENT OF WALL LINE TO AVOID ANY STEPS IN FINISH.
12. ALL SURFACE MOUNTED CONDUIT TO BE PAINTED TO MATCH INTERIOR WALL COLOR.
14. SEE SHEET A-102 FOR WALL TYPE TAGS.
15. SEE FF&E PLAN FOR FURNITURE AND EQUIPMENT NOT SHOWN.

WALL TYPE SCHEDULE

TYPE	SYMBOL	DESCRIPTION	DETAIL
A1		**EXTERIOR - 8" CMU** W/ STONE VENEER	11 / A-910
A2		**EXTERIOR - 12" CMU** W/ STONE VENEER	
B1		**EXTERIOR - 8" CMU** W/ BOARD AND BATTEN	12 / A-910
B2		**EXTERIOR - 12" CMU** W/ BOARD AND BATTEN	
E1		**INTERIOR - 8" CMU** W/ 2X FURRING & GWB	13 / A-910
E2		**INTERIOR - 8" CMU** W/ 4X FURRING & GWB	
G		**INTERIOR - 8" CMU,** EXPOSED BLOCK BOTH SIDES	14 / A-910
H		**EXTERIOR - 2X6 WOOD STUD** W/ BOARD & BATTEN	21 / A-910
I		**EXTERIOR - 2X6 WOOD STUD** W/ FURRING AND BOARD & BATTEN	22 / A-910
J		**EXTERIOR - 2X6 WOOD STUD** W/ CEMENT PLASTER	23 / A-910
K		**INTERIOR - 2X6 WOOD STUD** W/ GWB	24 / A-910 31 / A-910
L		**INTERIOR - 2X6 WOOD STUD** 1/2 HOUR FIRE-RATED W/ GWB	32 / A-910
ST		**STOREFRONT** - REFER TO DOOR & WINDOW SCHEDULE FOR MORE INFORMATION	

WALL TYPE NOTES:

1. ALL GYPSUM WALL BOARD TO BE FULL-HEIGHT.
2. REFER TO STRUCTURAL DRAWINGS FOR LOCATIONS OF ADDITIONAL SHEATHING AT SHEARWALLS.
3. SEE SLAB PLAN ON SHEET A-141 FOR LOCATIONS OF CONCRETE CURBS UNDER WALLS.
4. PROVIDE R-13 BATT SOUND INSULATION AT ALL INTERIOR PARTITIONS.
5. REFER TO ENERGY PLANS FOR INSULATION R-VALUES AT EXTERIOR WALLS.
6. SEE EXTERIOR ELEVATIONS FOR WALL LOCATIONS NOT SHOWN ON PLANS.
7. SEE EXTERIOR ELEVATIONS FOR LOCATIONS OF STONE WAINSCOT.

BID DOCUMENTS

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. THESE DRAWINGS AND SPECIFICATIONS ARE SUBJECT TO RESTRICTIONS SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C 31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

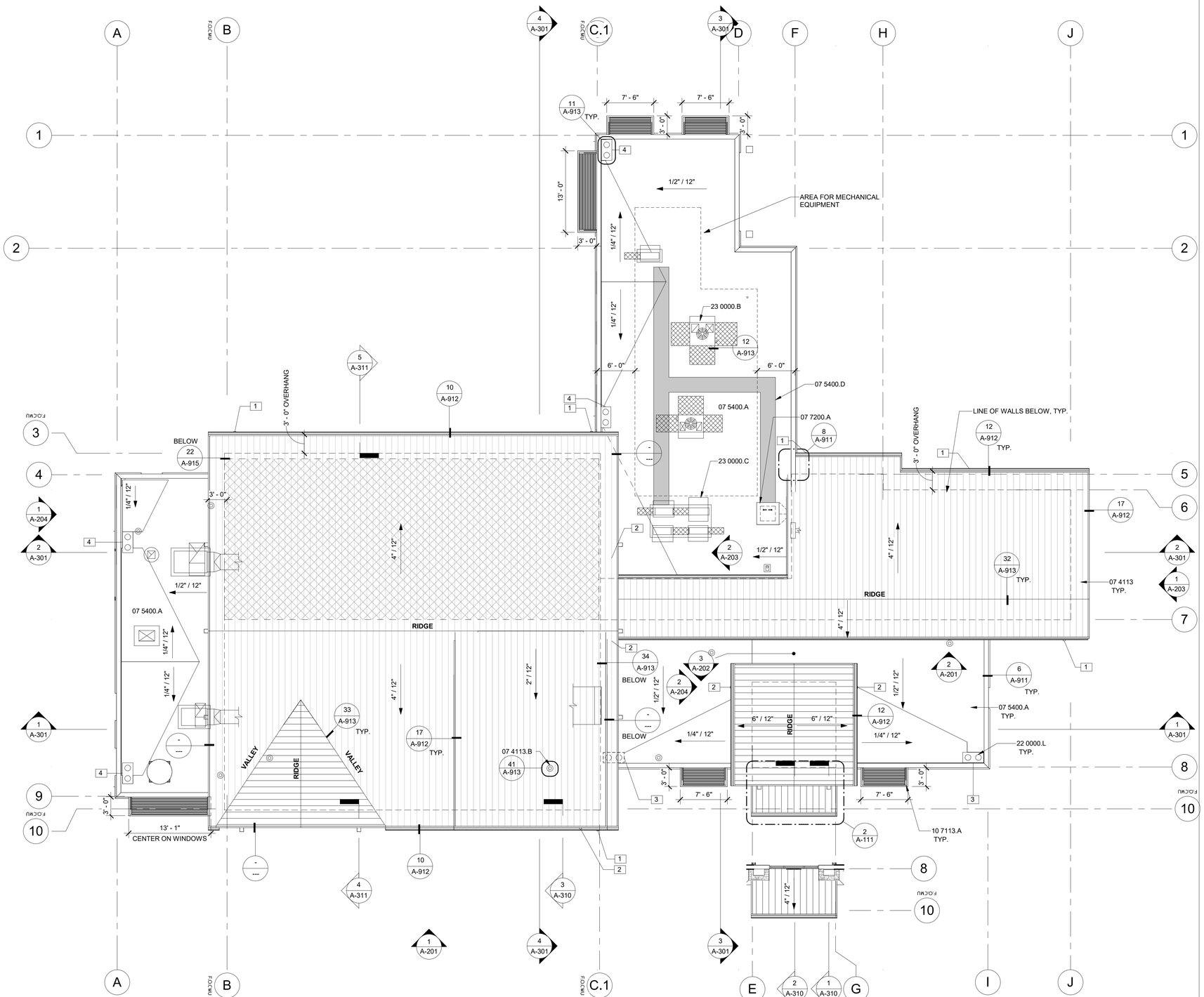
ARCHITECTURAL DIMENSION PLAN

NO.	REVISION	DATE

PROJECT MANAGER: MLS
DRAWN BY: CW
CHECKED BY: CW
DATE: MAY 4, 2026
Date: 05/04/2026
PROJECT NUMBER: 2471-01-CI21
SHEET: A-102

County of Madera – CDD Building and Fire Safety Division
Plans Approved Under the 2022 California Building Code
Date: 05/04/2026
Plans and attachments not valid without signature

4/30/2026 3:48:37 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt



1 ROOF PLAN

A-201 | A-111 SCALE: 1/8" = 1'-0"

2 ROOF PLAN - CANOPY

A-111 | A-111 SCALE: 1/8" = 1'-0"

ROOF PLAN NOTES

1. REFER TO STRUCTURAL PLANS FOR ROOF FRAMING INFORMATION INCLUDING MEMBER SIZES AND CONNECTION HARDWARE.
2. REFER TO ELECTRICAL PLANS FOR POWER DISTRIBUTION TO ROOF MOUNTED EQUIPMENT.
3. REFER TO MECHANICAL PLANS FOR ROOF MOUNTED EQUIPMENT LOCATION AND TYPE.
4. REFER TO PLUMBING PLANS FOR ROOF VENT PENETRATION.
5. MASONRY SEALER TO BE APPLIED TO ALL EXTERIOR MASONRY VENEER.
6. ROOF TO BE UNVENTED PER CBC 1202.3 - UNVENTED ATTIC AND UNVENTED ENCLOSED RAFTER ASSEMBLIES.

INSULATION NOTE:

PER CBC 1202.3, EXCEPTION 5.1.3: WHERE BOTH AIR-IMPERMEABLE AND AIR-PERMEABLE INSULATION ARE PROVIDED, THE AIR-IMPERMEABLE INSULATION SHALL BE APPLIED IN DIRECT CONTACT WITH THE UNDERSIDE OF THE STRUCTURAL ROOF SHEATHING AND SHALL BE IN ACCORDANCE WITH THE R-VALUES IN TABLE 1202.3 FOR CONDENSATION CONTROL.THE AIR-PERMEABLE INSULATION SHALL BE INSTALLED DIRECTLY UNDER THE AIR-IMPERMEABLE INSULATION.

KEYNOTES

07 4113	METAL ROOF PANELS
07 4113.B	METAL ROOF PIPE PENETRATION
07 5400.A	THERMOPLASTIC MEMBRANE ROOFING SYSTEM SEE SPECIFICATIONS
07 5400.D	ROOF WALKING PAD
07 7200.A	ROOF ACCESS HATCH
10 7113.A	FIXED SUN SHADES
22 0000.L	ROOF DRAIN/OVERFLOW, REFER TO PLUMBING.
23 0000.B	MECHANICAL EQUIPMENT. REFER TO MECHANICAL
23 0000.C	MECHANICAL UNIT CONDENSER. REFER TO MECHANICAL

ROOF DRAINAGE LEGEND

1 DOWNSPOUT FROM GUTTER TO ROOF BELOW
NOTE: AT SINGLE-PLY ROOFING LOCATIONS, PROVIDE EXTRA LAYER OF SINGLE PLY ROOFING, 14" WIDE 24" LONG, AT DOWNSPOUT OUTLET.

2 ROOF DRAIN AND OVERFLOW TO OUTLETS AT BASE OF WALL
NOTE: AT LANDSCAPE AREAS, PROVIDE SPLASH BLOCK AT ROOF DRAIN OUTLET ONLY.
REFER TO DETAIL 31 / A-913 & 24 / A-913

3 ROOF DRAIN WITH CONNECTION TO STORM DRAIN PIPE
REFER TO DETAILS 31 / A-913 & 14 / A-913
REFER TO CIVIL FOR STORM DRAIN CONNECTION.

4 DOWNSPOUT TO PAVING AND STORM DRAIN BELOW

NOTE: FOR TYPICAL GUTTER TO DOWNSPOUT, REFER TO DETAIL 13 / A-913

LEGEND

07 4113.A STANDING SEAM METAL ROOFING
REFER TO EXTERIOR ELEVATIONS FOR FINISHES

SOLAR READY AREA
1,500 SQ.FT. REQUIRED
1,500 SQ.FT. PROVIDED

07 5400.A SINGLE PLY THERMOPLASTIC MEMBRANE ROOFING,
REFER TO SPECIFICATIONS.

07 5400.D ROOF WALKING PAD

rrm design group
rrmdesign.com | (805) 543-1794
THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SHOULD CONSTRUCTION BEGIN, IT SHALL BE CONSIDERED AS SUCH). NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C 31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

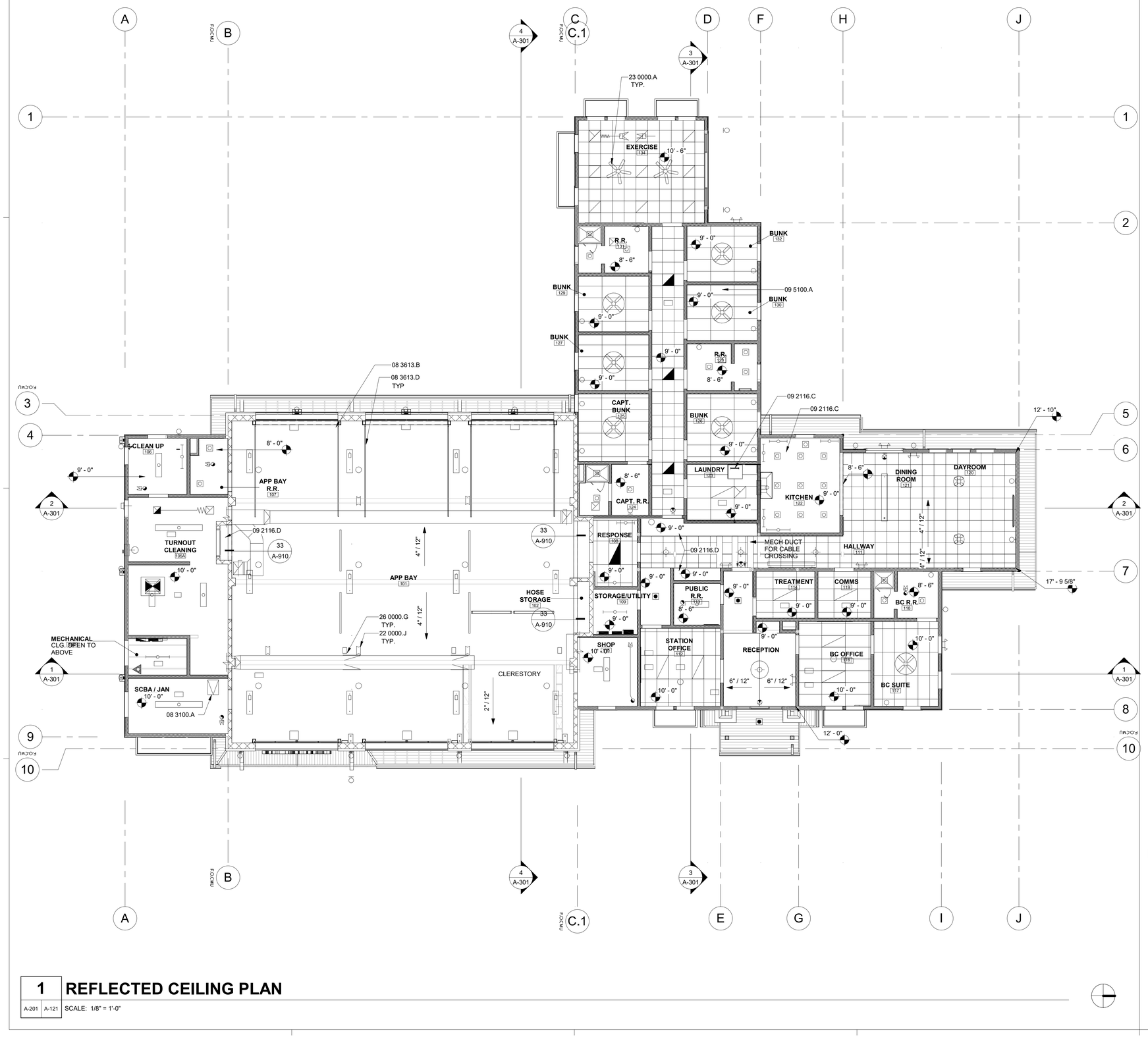
ROOF PLAN

NO.	REVISION	DATE

PROJECT MANAGER MLS
DRAWN BY APP
CHECKED BY CW
DATE MAY 4, 2026
PROJECT NUMBER 2471-01-CI21
SHEET A-111

County of Madera – CFD Building and Fire Safety
Building Division Plans Approved Under the 2022 California Building Codes and Ordinances, not valid without signature
Date 05/04/2026

4/30/2026 4:20:48 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt



GENERAL NOTES

1. 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.
2. 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, UON.
3. 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.
4. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION.
5. REFER TO MECHANICAL PLANS FOR FURTHER INFORMATION.
6. REFER TO SHEET A-932 & A-933 FOR SUSPENDED CEILING DETAILS

FIRE SPRINKLER NOTES

1. FIRE SPRINKLER HEADS ARE TO BE CENTERED IN THE MIDDLE OF CORRIDORS, OFFICES AND RESTROOMS.
2. FIRE SPRINKLER HEADS WHERE PLACED BETWEEN TWO LIGHT FIXTURES SHOULD BE CENTERED BETWEEN THE FIXTURES.
3. FIRE SPINKLER CONTRACTOR TO COORDINATE WORK WITH STRUCTURAL, MECHANICAL AND ELECTRICAL PLANS.
4. FIRE SPRINKLER CONTRACTOR TO LOCATE PIPING IN APPARATUS BAY AGAINST EXPOSED ROOF DECKING WHENEVER CODE ALLOWS.
5. FIRE SPRINKLERS TO BE PLACED WITHIN FRAMING SPACE OF VAULTED CEILINGS.
6. NO FIRE SPRINKLER PIPINGS SHALL BE EXPOSED

KEYNOTES

08 3100.A	CEILING ACCESS PANEL.
08 3613.B	SECTIONAL DOOR MOTOR
08 3613.D	SECTIONAL DOOR TRACK
09 2116.C	GYPSUM BOARD CEILING ASSEMBLY
09 2116.D	GYPSUM BOARD SOFFIT & FRAMING
09 5100.A	ACOUSTICAL LAY-IN TILE CEILING
22 0000.J	AIR HOSE REEL DROP
23 0000.A	CEILING FAN, REFER TO MECHANICAL.
26 0000.G	ELECTRICAL CORD DROP, REFER TO ELECTRICAL

LEGEND

10'-0"		CEILING HEIGHT
		MECHANICAL EQUIPMENT, REFER TO MECHANICAL PLANS
		LIGHT FIXTURE, REFER TO ELECTRICAL PLANS
	09 2116.C	GYPSUM BOARD CEILING ASSEMBLY
	09 5100.A	24" x 48" ACOUSTICAL CEILING TILE
	09 5100.A	24" x 24" ACOUSTICAL CEILING TILE
	O6 1000	1x6 T&G SOFFIT BOARDS

1 REFLECTED CEILING PLAN

A-201 | A-121

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

BID DOCUMENTS

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMISSION OR DISTRIBUTION OF THESE DOCUMENTS TO MEET OFFICIAL REGULATORY REQUIREMENTS OR FOR OTHER PURPOSES IN CONNECTION WITH THE PROJECT IS NOT TO BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C 31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

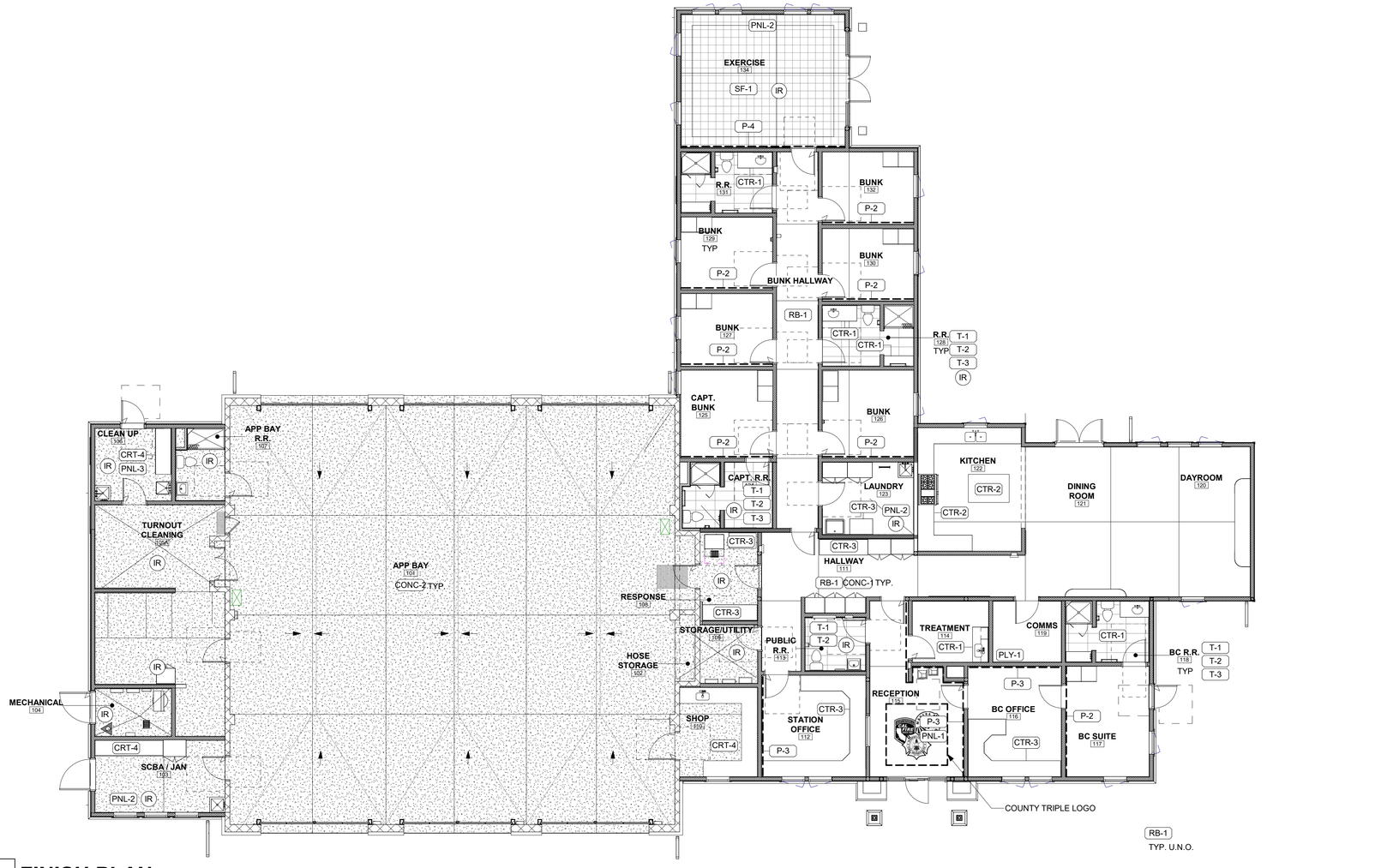
REFLECTED CEILING PLAN

NO.	REVISION	DATE

PROJECT MANAGER: MLS
DRAWN BY: AM | CHECKED BY: CW
DATE: MAY 4 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: A-121

County of Madera – CFD Building and Fire Safety
Building Division
Approved under the 2022 California Building Codes and Ordinances, not valid without signature
Date: 05/04/2026

4/30/2026 4:27:55 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt



1 FINISH PLAN

A-201 | A-131

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

FINISH NOTES

1. REFER TO REFLECTED CEILING PLAN FOR CEILING HEIGHT AND MATERIAL.
2. PROVIDE GROUT TO FILL ALL CONTROL JOINTS AT POLISHED AND SEALED CONCRETE
3. REFER TO DETAIL 11 / A-931 FOR FRP WALL ATTACHEMENT
4. REFER TO INTERIOR ELEVATIONS FOR TILE WAINSCOT LOCATIONS AND REFER TO DETAIL FOR PATTERN.
5. REFER TO DETAIL 13 / A-931 FOR FURTHER INFORMATION IN REGARDS TO - SOLID COMPOSITE SHOWER ENCLOSURE, CEILING, AND SOFFIT FACE AT SHOWER.
6. PROVIDE CONCRETE SEALER UNDER ALL FLOOR COVERINGS.
7. FLOORING AND BASE TO WRAP INSIDE CABINET UNDER SINKS AND AT TRASH LOCATION AND BEHIND ALL EQUIPMENT
8. CONTRACTOR TO VERIFY BASE HEIGHT, ROLL LENGTH AND FORMED CORNERS WITH SPECIFICATIONS.
9. ALL EXPOSED CMU BLOCK TO BE PAINTED, U.N.O.

FINISH PLAN LEGEND

- CONC-1 — POLISHED CONCRETE LOCATIONS
- CONC-2 — SEALED CONCRETE LOCATIONS
- SF-1 — SPORTS FLOORING LOCATIONS
- SLOPE ARROW. SEE SLAB PLAN FOR INFORMATION.
- X-X — FINISH TAG, SEE FINISH SCHEDULE.
- X-X — ACCENT WALL LOCATION
- IR — IMPACT / WATER RESISTANT GYPSUM WALLBOARD LOCATION

COUNTRY TRIPLE LOGO

INTERIOR FINISH SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	SIZE	COLOR	NOTES
033500-Concrete Finishing					
CONC-1	CONCRETE	RETROPLATE		POLISHED CONCRETE	
CONC-2	CONCRETE			SEALED CONCRETE	
064100-Architectural Woodwork					
PL-1	PLASTIC LAMINATE	NEVAMAR		BLACK PEARL (S6014T)	
PLY-1	EXPOSED PLYWOOD SHEATHING			EXPOSED PLYWOOD	
064219-Prefinished Panels					
PNL-1	WALL PROTECTION	MARLITE		TBD	
PNL-2	WALL PROTECTION	MARLITE		1001-S4 PAINTABLE WHITE	
PNL-3	WALL PROTECTION	MARLITE		TBD	
066100-Simulated Stone Fabrications					
SW-1	SHOWER WALL SOLID SURFACE	CORIAN		ANTARCTICA	
093000-Tiling					
T-1	FLOOR TILE	DALTILE	15" X 30"	ENLITE - TRANSCEND (EL64)	MONOLITHIC STACK INSTALLATION WITH 1/8" MAX GROUT JOINTS. ARCHITECT TO SELECT GROUT COLOR.
T-2	WAINSCOT FIELD WALL TILE	CROSSVILLE	6" X 24"	SHADES 2.0 - FROST UPS	HORIZONTAL STACK INSTALLATION WITH MINIMAL GROUT JOINTS. ARCHITECT TO SELECT GROUT COLOR.
T-3	ACCENT WALL TILE	CROSSVILLE	1" X 3" TILE IN 6" BAND	SHADES 2.0 - WHITES	INSTALL WITH MINIMAL GROUT JOINTS. ARCHITECT TO SELECT GROUT COLOR.
096500-Resilient Flooring					
RB-1	RUBBER BASE				
SF-1	SPORTS FLOOR	ECO SURFACES		TAKE ONE (1214)	
096600 - Terrazzo Flooring					

TAG	DESCRIPTION	MANUFACTURER	SIZE	COLOR	NOTES
SP-1	TERRAZZO SHOWER PAN FLOOR	FIAT		501 (GREY PORTLAND CEMENT WITH WHITE CHIPS)	
099123-Interior Paint					
P-1	GENERAL PAINT	SHERWIN WILLIAMS		WESTHIGHLAND WHITE (SW 7566)	GENERAL U.O.N. - EGGSHELL FINISH
P-2	ACCENT PAINT	SHERWIN WILLIAMS		HONED SOAPSTONE (SW 9126)	EGGSHELL FINISH
P-3	ACCENT PAINT	SHERWIN WILLIAMS		SIERRA REDWOOD (SW 7598)	EGGSHELL FINISH
P-4	ACCENT PAINT	SHERWIN WILLIAMS		BLACK FOX (SW 7020)	EGGSHELL FINISH
123600-Counters					
CRT-4	GALVANIZED STEEL COUNTERS				
CTR-1	SOLID SURFACE COUNTERS	CORIAN		NEUTRAL CONCRETE	
CTR-2	QUARTZ COUNTERTOP	TBD			
CTR-3	PLASTIC LAMINATE COUNTERS	NEVAMAR		WILD OATS MATRIX (MR7002T)	

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. THE COPYRIGHT NOTICE APPEARING ON THESE DRAWINGS SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT — MICHAEL L. SCOTT — C31544 — 10-31-27 RENEWAL DATE — STATE OF CALIFORNIA

CONSULTANT

AGENCY

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

FINISH PLAN

NO.	REVISION	DATE

PROJECT MANAGER: MLS
DRAWN BY: CW
CHECKED BY:
DATE: APRIL 08, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: A-131

BID DOCUMENTS

County of Madera – CFD Building and Fire Safety
Plans Approved Under the 2022 California Building Code and Ordinances. Valid until signed expires.
Date: 05/04/2026

4/30/2026 9:27:51 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt

1 GROUND FLOOR FURNITURE AND SIGNAGE PLAN

A-201 | A-132 SCALE: 1/8" = 1'-0"

SIGNAGE LEGEND

- (A) ROOM SIGNAGE. WHEN MOUNTED ON GLAZING, SIZE EXIT SIGN TO MATCH EXTERIOR GLASS MOUNTED EXIT SIGN. ALIGN EXIT AND ROOM ID SIGN WHEN MOUNTING. SEE
- (B) ASSISTIVE LISTENING SIGNAGE. SEE
- (C) TACTILE EXIT SIGNAGE. WHEN MOUNTED ON GLAZING, SIZE EXIT SIGN TO MATCH EXTERIOR GLASS MOUNTED ROOM ID SIGN. ALIGN EXIT AND ROOM ID SIGN WHEN MOUNTING. SEE
- (D) RESTROOM DOOR SIGN WITH ISA PICTOGRAM, GEOMETRIC. SEE
- (E) RESTROOM WALL SIGN WITH ISA PICTOGRAM. SEE
- (F) ILLUMINATED EXIT SIGN. SEE ELECTRICAL PLAN FOR LOCATIONS, SEE
- (G) ROOM ID SIGN. 1" HIGH LETTERS READING "FIRE SPRINKLER RISER" OR "FIRE ALARM PANEL" AS APPLICABLE. SEE

FF&E SCHEDULE

EQUIPMENT	COUNT	OFCI	OFOI	CFCI	COMMENTS
BED FRAME	10			•	
DESK	7			•	
DINING CHAIR	9			•	
DINING TABLE	1			•	
GUEST CHAIR	12			•	
OFFICE CHAIR	5			•	
RECLINER CHAIR	6			•	
TELEVISION	1			•	
TREATMENT TABLE	1			•	

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SHOULD CONSENT BE GIVEN, THIS DOES NOT CONSTITUTE A SALE AND SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C 31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

FURNITURE AND SIGNAGE PLAN

NO.	REVISION	DATE

PROJECT MANAGER: MLS
DRAWN BY: CW
CHECKED BY: CW
DATE: MAY 4, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: A-132

County of Madera – CFD Building and Fire Safety Plans Approved Under the 2022 California Building Code
Date: 05/04/2026
Plans and attachments not valid without signature

4/30/2026 3:48:40 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt

1 GROUND FLOOR SLAB PLAN

A-201 | A-141

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

LEGEND

- LOCATION OF 5-1/2" CONCRETE CURBS
- LOCATION OF CONCRETE CONTROL JOINTS
- SLOPE TO DRAIN, 1/8" PER 1'-0" U.N.O., MIN 3X SLOPE IN APP BAY
- 2" SLAB DEPRESSION FOR TILE FLOORS
- (X) CURB TYPE, REFER TO - / ---

rrm design group

rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

Licensed Architect
Michael L. Scott
License RC 31544
Expires 10/31/21
State of California

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2021.
RRM IS A CALIFORNIA CORPORATION

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

SLAB PLAN

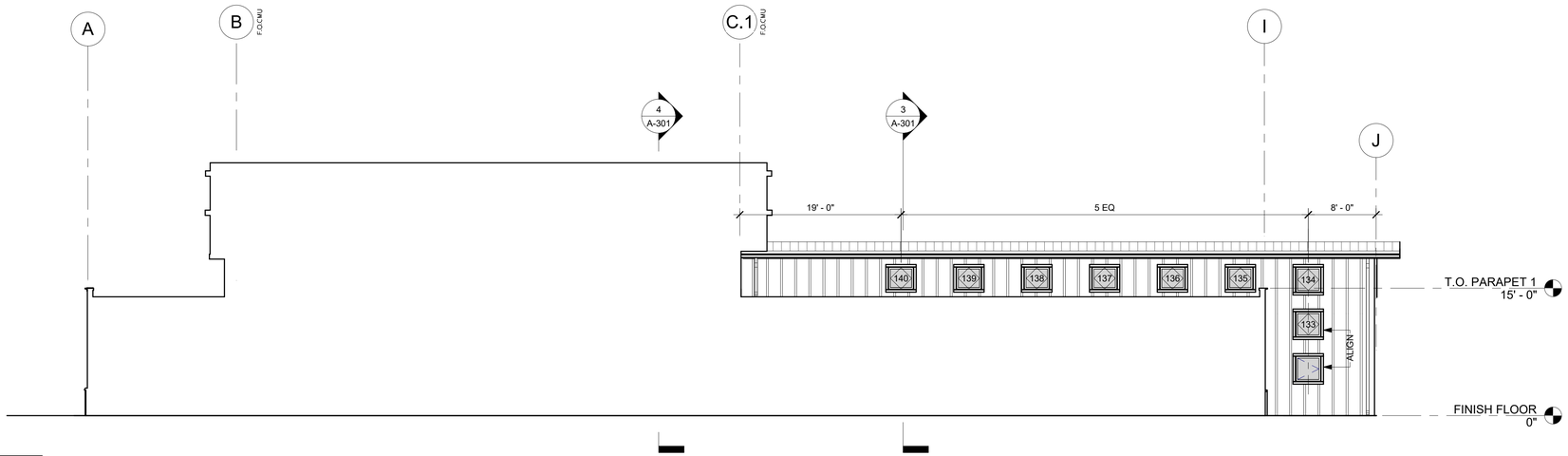
NO.	REVISION	DATE

PROJECT MANAGER: MLS
DRAWN BY:
CHECKED BY: CW
DATE: Nov. 4, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: A-141

BID DOCUMENTS

County of Madera – Construction Division
Plans Approved for Building Permit
Date: 05/04/2026
Building Division Approval
Plans Approved Under the 2022 California Building and Fire Safety Codes and Ordinances, not valid without current permit

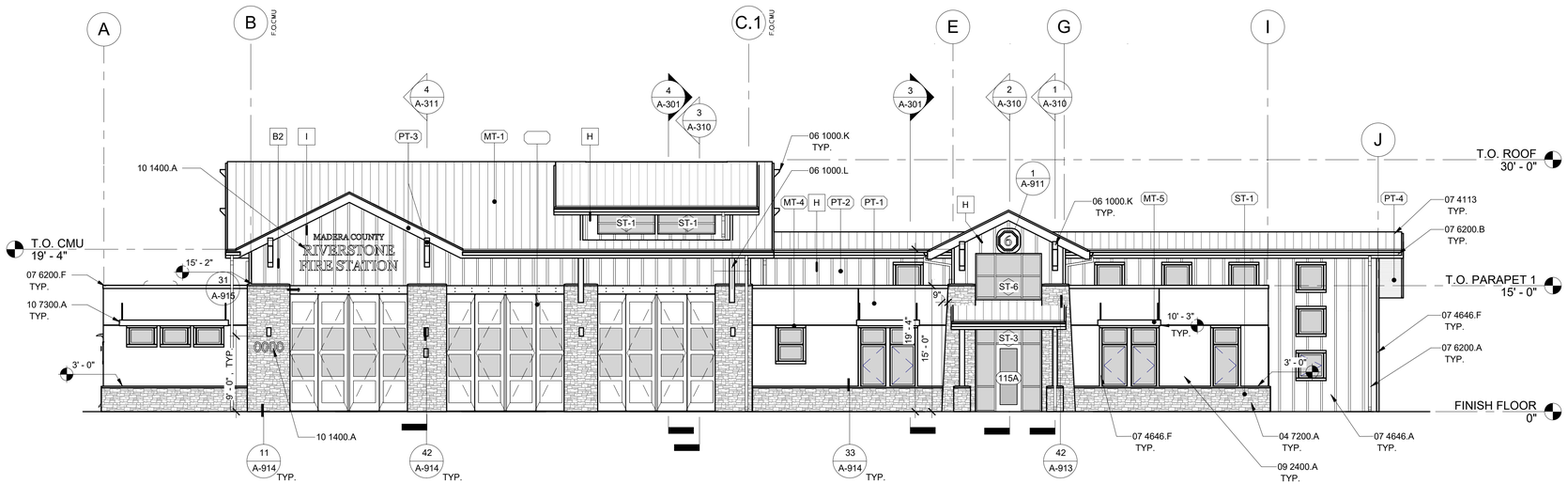
4/30/2026 3:48:41 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt



2 PARTIAL EAST ELEVATION

A-111 | A-201

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



1 EAST ELEVATION

A-101 | A-201

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

EXTERIOR FINISH SCHEDULE

TAG	DESCRIPTION	SPECIFICATION	LOCATION
07 - Roofs			
MT-1	PREFORMED METAL ROOF	MANUF: AEP Span ITEM: STANDING SEAM COLOR: Cool Zinc Gray	
08 - Openings			
MT-2	FOUR-FOLD APPARATUS DOORS	COLOR: TO MATCH SW 7048 Urbane Bronze	
MT-6	SECTIONAL DOORS	COLOR: TO MATCH SW 7048 Urbane Bronze	
10-Specialties			
MT-5	CANOPIES	MANUF: Mapes Color: Mapes Bronze	
084313-Aluminum Framed Storefonts			
MT-3	STOREFRONTS	COLOR: TO MATCH SW 7048 Urbane Bronze	
085113-Aluminum Windows			
MT-4	ALUMINUM WINDOWS	MANUF: Kawneer COLOR: Bronze	

TAG	DESCRIPTION	SPECIFICATION	LOCATION
099113- Exterior Paint			
PT-1	FIELD PAINT	MANUF: Sherwin Williams Color: SW 6126 Navajo White	-CEMENT PLASTER AS INDICATED ON ELEVATIONS
PT-2	ACCENT PAINT	MANUF: Sherwin Williams COLOR: SW 0057 Chinese Red	-FIBER CEMENT BOARD AND BATTEN SIDING -CEMENT PLASTER AS INDICATIED ON ELEVATIONS -ALL BOLLARDS
PT-3	TRIM	MANUF: Sherwin Williams COLOR: SW 7048 Urbane Bronze	-ALL METAL FLASHING AT WINDOWS, DOORS AND ROOF -ALL FASCIA -ALL GUTTERS AND DOWNSPOUTS
PT-4	WOOD STAIN	MANUF: Sherwin Williams COLOR: SW 3512 Cider Mill	-ALL EXTERIOR WOOD SOFFITS -FAUX BEAMS AT APP BAY DOORS
Stone-047200			
ST-1	ADHERED STONE VENEER	MANUF: ElDorado Stone COLOR: Western Castillo	

GENERAL NOTES

1 REFER TO DOOR SCHEDULE & TYPES FOR FURTHER INFORMATION.
2 REFER TO WINDOW SCHEDULE & TYPES FOR FURTHER INFORMATION.
3 MASONRY SEALER TO BE APPLIED TO ALL EXTERIOR MASONRY VENEER.
4 PROVIDE ARCHITECTURAL STONE TRIM AT EXTERIOR ELECTRICAL BOXES INCLUDING OUTLET BOXES, DOOR BELL, EMERGENCY PHONE, INTERCOM, AND COMMUNICATIONS THAT ARE WITHIN THE STONE VENEER WALL SURFACE.
5 PROVIDE CUSTOM CUT 26" X 14" FLAT STONE TO MATCH STONE VENEER AS BACKING FOR EXTERIOR LIGHT FIXTURES WITHIN STONE VENEER WALL SURFACE. STONE SHALL HAVE CHAMFERED EDGES AND HOLE FOR LIGHT FIXTURE BOX. PROVIDE ADDITIONAL FLAT STONE TO MATCH STONE VENEER AS BACKING FOR 911 PHONE AND DOOR BELL/INTERCOM AT FRONT DOOR. SIZE TO FIT UNITS APPROXIMATELY 26" WIDE X 14" TALL.
6 PROVIDE CONTROL JOINTS TO BOTTOM OF SOFFIT AT ALL WINDOW TRIM OUTSIDE EDGES.
7 SEE 1/A-915 FOR GENERAL CEMENT PLASTER DETAILS
8 MISCELLANEOUS TRIM AND SURFACES TO MATCH ADJACENT EXTERIOR SIDING COLORS

KEYNOTES

04 7200.A	CAST STONE VENEER
06 1000.K	DECORATIVE CORBEL
06 1000.L	DECORATIVE KICKER
07 4113	METAL ROOF PANELS
07 4646.A	FIBER CEMENT BOARD AND BATT SIDING.
07 4646.F	FIBER CEMENT BATTEN TRIM.
07 6200.A	DOWNSPOUT
07 6200.B	GUTTER
07 6200.F	GALVANIZED SHEET METAL WALL CAP
09 2400.A	CEMENT PLASTER SYSTEM
10 1400.A	INDIVIDUAL METAL LETTERS/NUMBERS. REFER TO SPECIFICATIONS.
10 7300.A	PRE-MANUFACTURED CANTILEVERED METAL CANOPY, CENTER OVER WINDOWS BELOW.

TYPICAL DETAILS

ITEM	DETAIL REFERENCE:
MOUNTING PADS:	41 / A-914 42 / A-914
FIBER CEMENT TRIM:	12 / A-914 13 / A-914

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. THE DISTRIBUTION OR UNAUTHORIZED USE OF ANYTHING SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C 31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

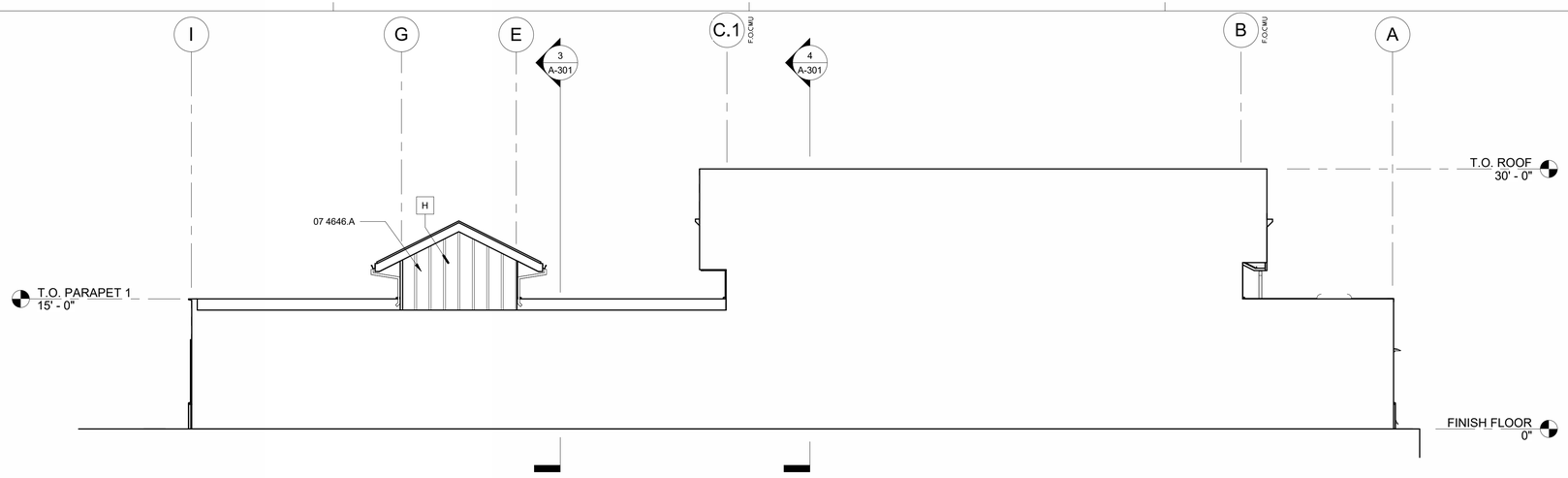
EXTERIOR ELEVATIONS

NO.	REVISION	DATE

PROJECT MANAGER: MLS
DRAWN BY: CW
CHECKED BY:
DATE: MAY 4 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: A-201

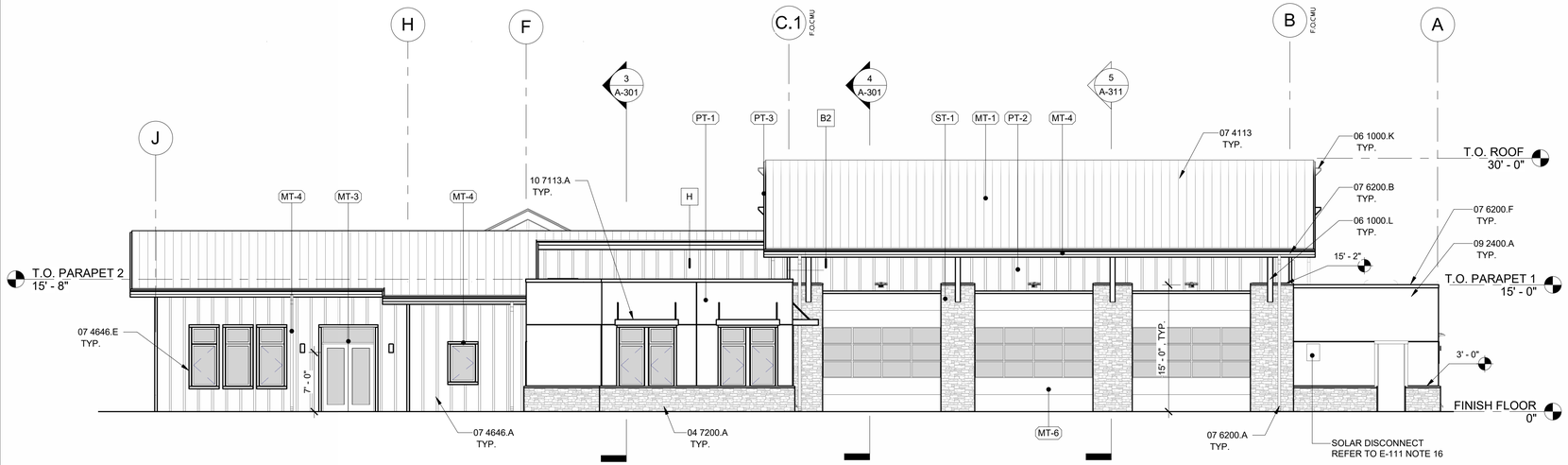
County of Madera – CFD Building and Fire Safety Approved as noted. Under the 2022 California Building Codes and Ordinances, not to be altered without signature. Date 05/04/2026

4/30/2026 3:48:42 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt



3 PARTIAL WEST ELEVATION

A-111 | A-202 SCALE: 1/8" = 1'-0"



1 WEST ELEVATION

A-101 | A-202 SCALE: 1/8" = 1'-0"

EXTERIOR FINISH SCHEDULE

TAG	DESCRIPTION	SPECIFICATION	LOCATION
07 - Roofs			
MT-1	PREFORMED METAL ROOF	MANUF: AEP Span ITEM: STANDING SEAM COLOR: Cool Zinc Gray	
08 - Openings			
MT-2	FOUR-FOLD APPARATUS DOORS	COLOR: TO MATCH SW 7048 Urbane Bronze	
MT-6	SECTIONAL DOORS	COLOR: TO MATCH SW 7048 Urbane Bronze	
10-Specialties			
MT-5	CANOPIES	MANUF: Mapes Color: Mapes Bronze	
084313-Aluminum Framed Storefonts			
MT-3	STOREFRONTS	COLOR: TO MATCH SW 7048 Urbane Bronze	
085113-Aluminum Windows			
MT-4	ALUMINUM WINDOWS	MANUF: Kawneer COLOR: Bronze	

TAG	DESCRIPTION	SPECIFICATION	LOCATION
099113- Exterior Paint			
PT-1	FIELD PAINT	MANUF: Sherwin Williams Color: SW 6126 Navajo White	-CEMENT PLASTER AS INDICATED ON ELEVATIONS
PT-2	ACCENT PAINT	MANUF: Sherwin Williams COLOR: SW 0057 Chinese Red	-FIBER CEMENT BOARD AND BATTEN SIDING -CEMENT PLASTER AS INDICATIED ON ELEVATIONS -ALL BOLLARDS
PT-3	TRIM	MANUF: Sherwin Williams COLOR: SW 7048 Urbane Bronze	-ALL METAL FLASHING AT WINDOWS, DOORS AND ROOF -ALL FASCIA -ALL GUTTERS AND DOWNSPOUTS
PT-4	WOOD STAIN	MANUF: Sherwin Williams COLOR: SW 3512 Cider Mill	-ALL EXTERIOR WOOD SOFFITS -FAUX BEAMS AT APP BAY DOORS
Stone-047200			
ST-1	ADHERED STONE VENEER	MANUF: ElDorado Stone COLOR: Western Castillo	

GENERAL NOTES

1 REFER TO DOOR SCHEDULE & TYPES FOR FURTHER INFORMATION.
2 REFER TO WINDOW SCHEDULE & TYPES FOR FURTHER INFORMATION.
3 MASONRY SEALER TO BE APPLIED TO ALL EXTERIOR MASONRY VENEER.
4 PROVIDE ARCHITECTURAL STONE TRIM AT EXTERIOR ELECTRICAL BOXES INCLUDING OUTLET BOXES, DOOR BELL, EMERGENCY PHONE, INTERCOM, AND COMMUNICATIONS THAT ARE WITHIN THE STONE VENEER WALL SURFACE.
5 PROVIDE CUSTOM CUT 26" X 14" FLAT STONE TO MATCH STONE VENEER AS BACKING FOR EXTERIOR LIGHT FIXTURES WITHIN STONE VENEER WALL SURFACE. STONE SHALL HAVE CHAMFERED EDGES AND HOLE FOR LIGHT FIXTURE BOX. PROVIDE ADDITIONAL FLAT STONE TO MATCH STONE VENEER AS BACKING FOR 911 PHONE AND DOOR BELL/INTERCOM AT FRONT DOOR. SIZE TO FIT UNITS APPROXIMATELY 26" WIDE X 14" TALL.
6 PROVIDE CONTROL JOINTS TO BOTTOM OF SOFFIT AT ALL WINDOW TRIM OUTSIDE EDGES.
7 SEE 1/A-915 FOR GENERAL CEMENT PLASTER DETAILS
8 MISCELLANEOUS TRIM AND SURFACES TO MATCH ADJACENT EXTERIOR SIDING COLORS

KEYNOTES

04 7200.A	CAST STONE VENEER
06 1000.K	DECORATIVE CORBEL
06 1000.L	DECORATIVE KICKER
07 4113	METAL ROOF PANELS
07 4646.A	FIBER CEMENT BOARD AND BATT SIDING.
07 4646.E	FIBER CEMENT TRIM.
07 6200.A	DOWNSPOUT
07 6200.B	GUTTER
07 6200.F	GALVANIZED SHEET METAL WALL CAP
09 2400.A	CEMENT PLASTER SYSTEM
10 7113.A	FIXED SUN SHADES

TYPICAL DETAILS

ITEM	DETAIL REFERENCE:
MOUNTING PADS:	41 / A-914 42 / A-914
FIBER CEMENT TRIM:	12 / A-914 13 / A-914

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. THESE DRAWINGS ARE NOT TO BE USED FOR BIDDING OR PERMIT SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C 31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

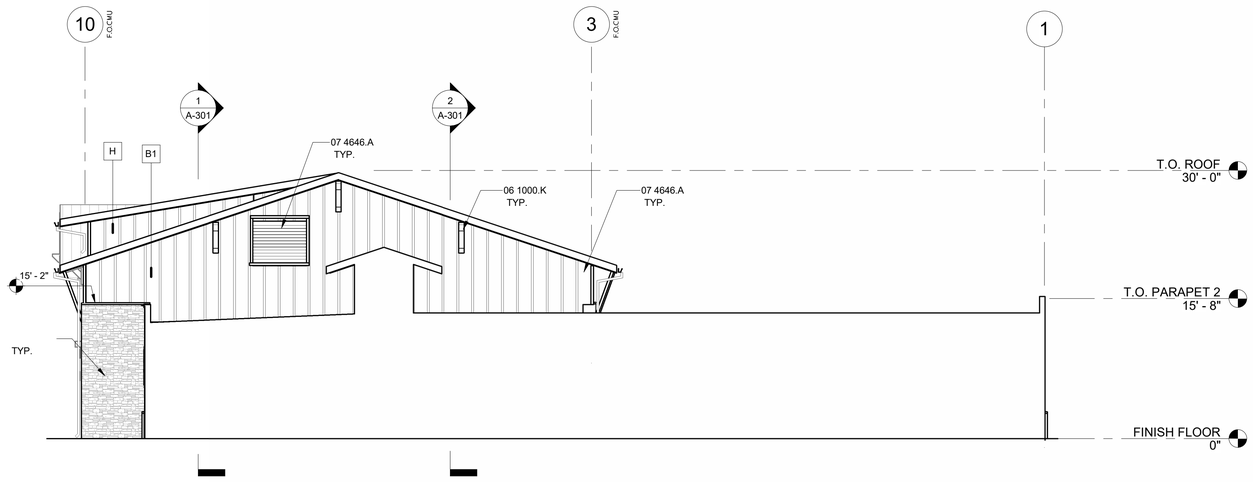
EXTERIOR ELEVATIONS

NO.	REVISION	DATE

PROJECT MANAGER
MLS
DRAWN BY
APP
CHECKED BY
CW
DATE
MAY 4, 2026
PROJECT NUMBER
2471-01-CI21
SHEET
A-202

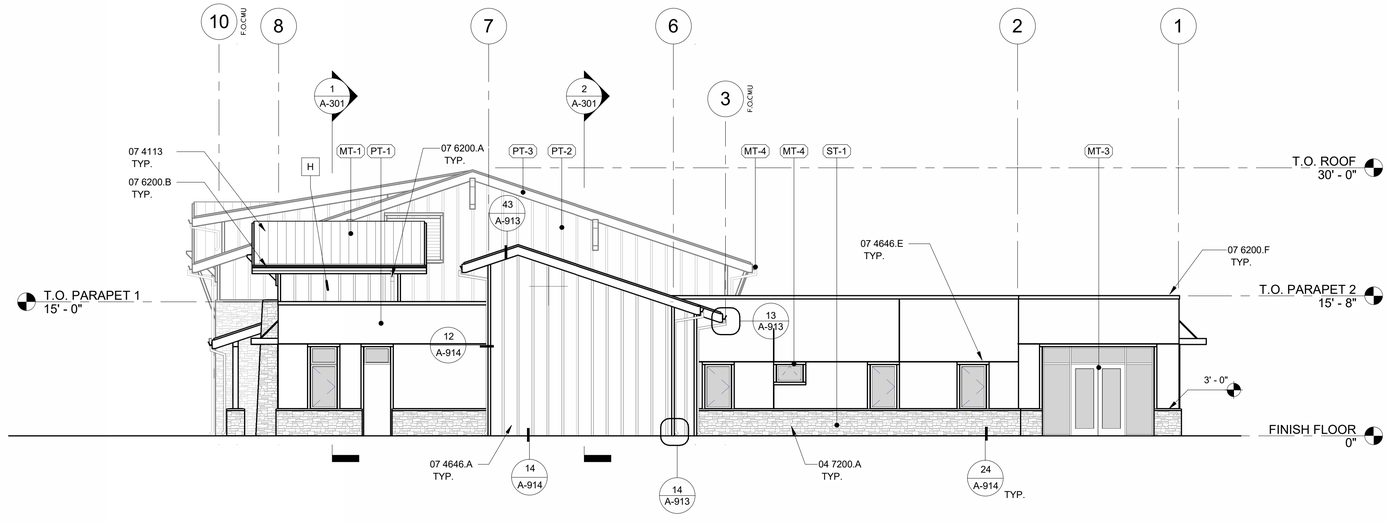
County of Madera – CFD Building and Fire Safety
Plans Approved Under the 2022 California Building Codes and Ordinances, not valid without signature
Date 05/04/2026

4/30/2026 3:48:43 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt



2 PARTIAL NORTH ELEVATION

A-111 | A-203 SCALE: 1/8" = 1'-0"



1 NORTH ELEVATION

A-101 | A-203 SCALE: 1/8" = 1'-0"

EXTERIOR FINISH SCHEDULE

TAG	DESCRIPTION	SPECIFICATION	LOCATION
07 - Roofs			
MT-1	PREFORMED METAL ROOF	MANUF: AEP Span ITEM: STANDING SEAM COLOR: Cool Zinc Gray	
08 - Openings			
MT-2	FOUR-FOLD APPARATUS DOORS	COLOR: TO MATCH SW 7048 Urbane Bronze	
MT-6	SECTIONAL DOORS	COLOR: TO MATCH SW 7048 Urbane Bronze	
10-Specialties			
MT-5	CANOPIES	MANUF: Mapes Color: Mapes Bronze	
084313-Aluminum Framed Storefonts			
MT-3	STOREFRONTS	COLOR: TO MATCH SW 7048 Urbane Bronze	
085113-Aluminum Windows			
MT-4	ALUMINUM WINDOWS	MANUF: Kawneer COLOR: Bronze	

TAG	DESCRIPTION	SPECIFICATION	LOCATION
099113- Exterior Paint			
PT-1	FIELD PAINT	MANUF: Sherwin Williams Color: SW 6126 Navajo White	-CEMENT PLASTER AS INDICATED ON ELEVATIONS
PT-2	ACCENT PAINT	MANUF: Sherwin Williams COLOR: SW 0057 Chinese Red	-FIBER CEMENT BOARD AND BATTEN SIDING -CEMENT PLASTER AS INDICATIED ON ELEVATIONS -ALL BOLLARDS
PT-3	TRIM	MANUF: Sherwin Williams COLOR: SW 7048 Urbane Bronze	-ALL METAL FLASHING AT WINDOWS, DOORS AND ROOF -ALL FASCIA -ALL GUTTERS AND DOWNSPOUTS
PT-4	WOOD STAIN	MANUF: Sherwin Williams COLOR: SW 3512 Cider Mill	-ALL EXTERIOR WOOD SOFFITS -FAUX BEAMS AT APP BAY DOORS
Stone-047200			
ST-1	ADHERED STONE VENEER	MANUF: ElDorado Stone COLOR: Western Castillo	

GENERAL NOTES

1 REFER TO DOOR SCHEDULE & TYPES FOR FURTHER INFORMATION.
2 REFER TO WINDOW SCHEDULE & TYPES FOR FURTHER INFORMATION.
3 MASONRY SEALER TO BE APPLIED TO ALL EXTERIOR MASONRY VENEER.
4 PROVIDE ARCHITECTURAL STONE TRIM AT EXTERIOR ELECTRICAL BOXES INCLUDING OUTLET BOXES, DOOR BELL, EMERGENCY PHONE, INTERCOM, AND COMMUNICATIONS THAT ARE WITHIN THE STONE VENEER WALL SURFACE.
5 PROVIDE CUSTOM CUT 26" X 14" FLAT STONE TO MATCH STONE VENEER AS BACKING FOR EXTERIOR LIGHT FIXTURES WITHIN STONE VENEER WALL SURFACE. STONE SHALL HAVE CHAMFERED EDGES AND HOLE FOR LIGHT FIXTURE BOX. PROVIDE ADDITIONAL FLAT STONE TO MATCH STONE VENEER AS BACKING FOR 911 PHONE AND DOOR BELL/INTERCOM AT FRONT DOOR. SIZE TO FIT UNITS APPROXIMATELY 26" WIDE X 14" TALL.
6 PROVIDE CONTROL JOINTS TO BOTTOM OF SOFFIT AT ALL WINDOW TRIM OUTSIDE EDGES.
7 SEE 1/A-915 FOR GENERAL CEMENT PLASTER DETAILS
8 MISCELLANEOUS TRIM AND SURFACES TO MATCH ADJACENT EXTERIOR SIDING COLORS

KEYNOTES

04 7200.A	CAST STONE VENEER
06 1000.K	DECORATIVE CORBEL
07 4113	METAL ROOF PANELS
07 4646.A	FIBER CEMENT BOARD AND BATT SIDING.
07 4646.E	FIBER CEMENT TRIM.
07 6200.A	DOWNSPOUT
07 6200.B	GUTTER
07 6200.F	GALVANIZED SHEET METAL WALL CAP

TYPICAL DETAILS

ITEM	DETAIL REFERENCE:
MOUNTING PADS:	41 / A-914 42 / A-914
FIBER CEMENT TRIM:	12 / A-914 13 / A-914

rrm design group
rrmdesign.com | (805) 543-1794
THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. ANY UNAUTHORIZED USE SHALL BE AT THE USER'S SOLE RISK AND SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

EXTERIOR ELEVATIONS

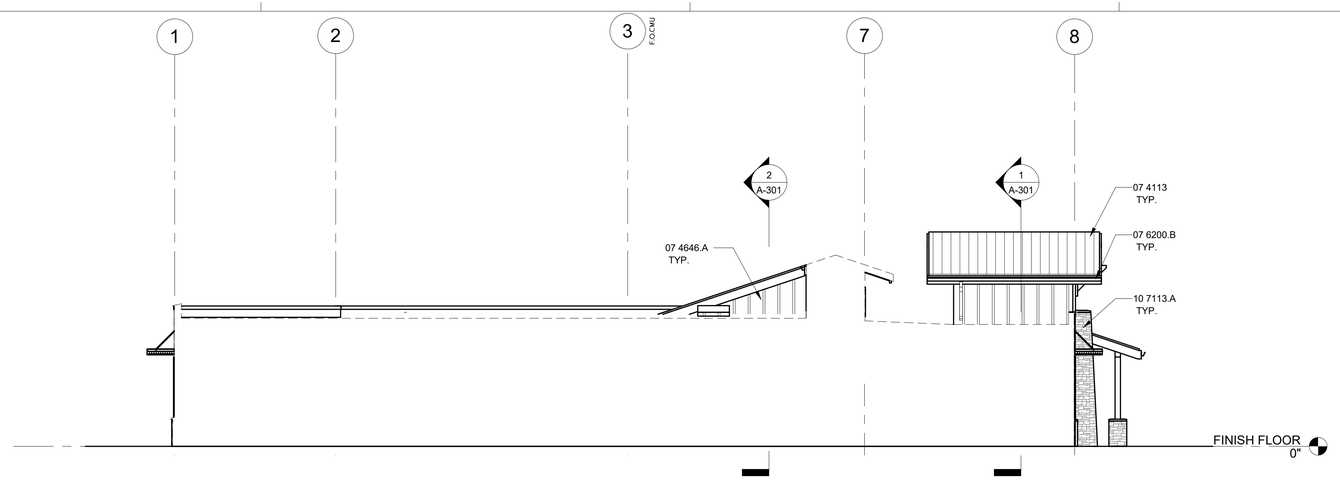
NO.	REVISION	DATE

PROJECT MANAGER MLS
DRAWN BY CW
CHECKED BY MLS
DATE MAY 4 2026
Date 05/04/2026
PROJECT NUMBER 2471-01-CI21
SHEET A-203

County of Madera – CFD Building and Fire Safety Division Approved under the 2022 California Building Code
Plans and Documents not valid without signature

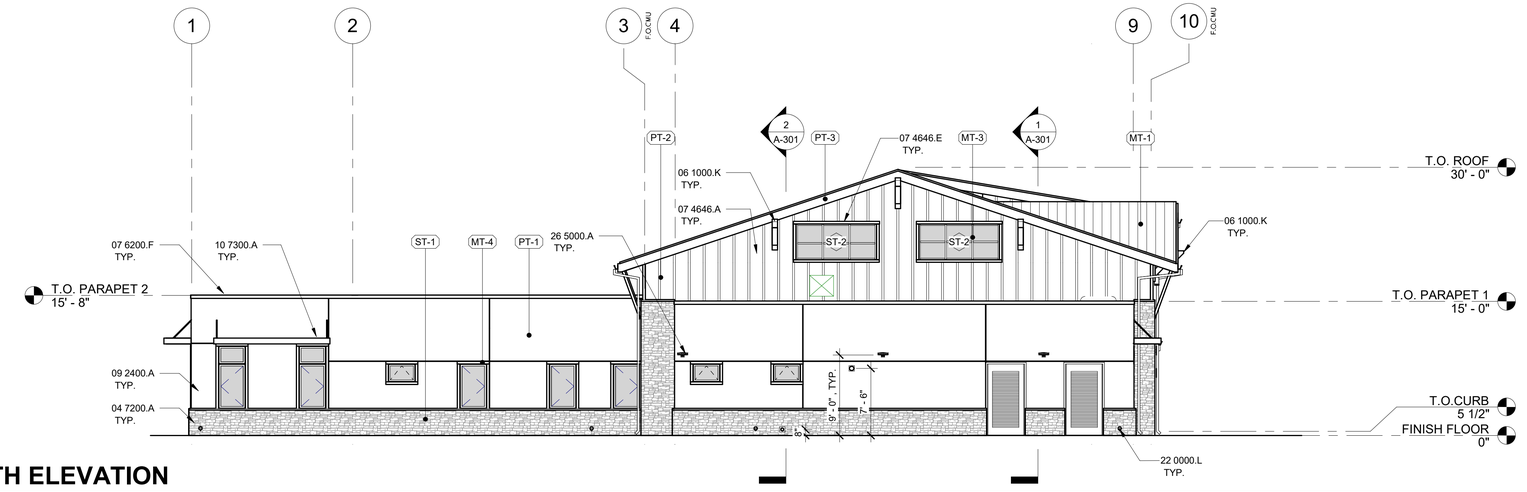
BID DOCUMENTS

4/30/2026 3:48:45 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt



2 PARTIAL SOUTH ELEVATION

A-111 | A-204 SCALE: 1/8" = 1'-0"



1 SOUTH ELEVATION

A-101 | A-204 SCALE: 1/8" = 1'-0"

EXTERIOR FINISH SCHEDULE

TAG	DESCRIPTION	SPECIFICATION	LOCATION
07 - Roofs			
MT-1	PREFORMED METAL ROOF	MANUF: AEP Span ITEM: STANDING SEAM COLOR: Cool Zinc Gray	
08 - Openings			
MT-2	FOUR-FOLD APPARATUS DOORS	COLOR: TO MATCH SW 7048 Urbane Bronze	
MT-6	SECTIONAL DOORS	COLOR: TO MATCH SW 7048 Urbane Bronze	
10-Specialties			
MT-5	CANOPIES	MANUF: Mapes Color: Mapes Bronze	
084313-Aluminum Framed Storefonts			
MT-3	STOREFRONTS	COLOR: TO MATCH SW 7048 Urbane Bronze	
085113-Aluminum Windows			
MT-4	ALUMINUM WINDOWS	MANUF: Kawneer COLOR: Bronze	

TAG	DESCRIPTION	SPECIFICATION	LOCATION
099113- Exterior Paint			
PT-1	FIELD PAINT	MANUF: Sherwin Williams Color: SW 6126 Navajo White	-CEMENT PLASTER AS INDICATED ON ELEVATIONS
PT-2	ACCENT PAINT	MANUF: Sherwin Williams COLOR: SW 0057 Chinese Red	-FIBER CEMENT BOARD AND BATTEN SIDING -CEMENT PLASTER AS INDICATIED ON ELEVATIONS -ALL BOLLARDS
PT-3	TRIM	MANUF: Sherwin Williams COLOR: SW 7048 Urbane Bronze	-ALL METAL FLASHING AT WINDOWS, DOORS AND ROOF -ALL FASCIA -ALL GUTTERS AND DOWNSPOUTS
PT-4	WOOD STAIN	MANUF: Sherwin Williams COLOR: SW 3512 Cider Mill	-ALL EXTERIOR WOOD SOFFITS -FAUX BEAMS AT APP BAY DOORS
Stone-047200			
ST-1	ADHERED STONE VENEER	MANUF: ElDorado Stone COLOR: Western Castillo	

GENERAL NOTES

1 REFER TO DOOR SCHEDULE & TYPES FOR FURTHER INFORMATION.
2 REFER TO WINDOW SCHEDULE & TYPES FOR FURTHER INFORMATION.
3 MASONRY SEALER TO BE APPLIED TO ALL EXTERIOR MASONRY VENEER.
4 PROVIDE ARCHITECTURAL STONE TRIM AT EXTERIOR ELECTRICAL BOXES INCLUDING OUTLET BOXES, DOOR BELL, EMERGENCY PHONE, INTERCOM, AND COMMUNICATIONS THAT ARE WITHIN THE STONE VENEER WALL SURFACE.
5 PROVIDE CUSTOM CUT 26" X 14" FLAT STONE TO MATCH STONE VENEER AS BACKING FOR EXTERIOR LIGHT FIXTURES WITHIN STONE VENEER WALL SURFACE. STONE SHALL HAVE CHAMFERED EDGES AND HOLE FOR LIGHT FIXTURE BOX. PROVIDE ADDITIONAL FLAT STONE TO MATCH STONE VENEER AS BACKING FOR 911 PHONE AND DOOR BELL/INTERCOM AT FRONT DOOR. SIZE TO FIT UNITS APPROXIMATELY 26" WIDE X 14" TALL.
6 PROVIDE CONTROL JOINTS TO BOTTOM OF SOFFIT AT ALL WINDOW TRIM OUTSIDE EDGES.
7 SEE 1/A-915 FOR GENERAL CEMENT PLASTER DETAILS
8 MISCELLANEOUS TRIM AND SURFACES TO MATCH ADJACENT EXTERIOR SIDING COLORS

KEYNOTES

04 7200.A	CAST STONE VENEER
06 1000.K	DECORATIVE CORBEL
07 4113	METAL ROOF PANELS
07 4646.A	FIBER CEMENT BOARD AND BATT SIDING.
07 4646.E	FIBER CEMENT TRIM.
07 6200.B	GUTTER
07 6200.F	GALVANIZED SHEET METAL WALL CAP
09 2400.A	CEMENT PLASTER SYSTEM
10 7113.A	FIXED SUN SHADES
10 7300.A	PRE-MANUFACTURED CANTILEVERED METAL CANOPY, CENTER OVER WINDOWS BELOW.
22 0000.L	ROOF DRAIN/OVERFLOW, REFER TO PLUMBING.
26 5000.A	LIGHT FIXTURE. REFER TO ELECTRICAL

TYPICAL DETAILS

ITEM	DETAIL REFERENCE:
MOUNTING PADS:	41 / A-914 42 / A-914
FIBER CEMENT TRIM:	12 / A-914 13 / A-914

rrm design group
rrmdesign.com | (805) 543-1794
THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. THE COMMON LAW COPYRIGHT PROTECTION IN THESE DRAWINGS SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

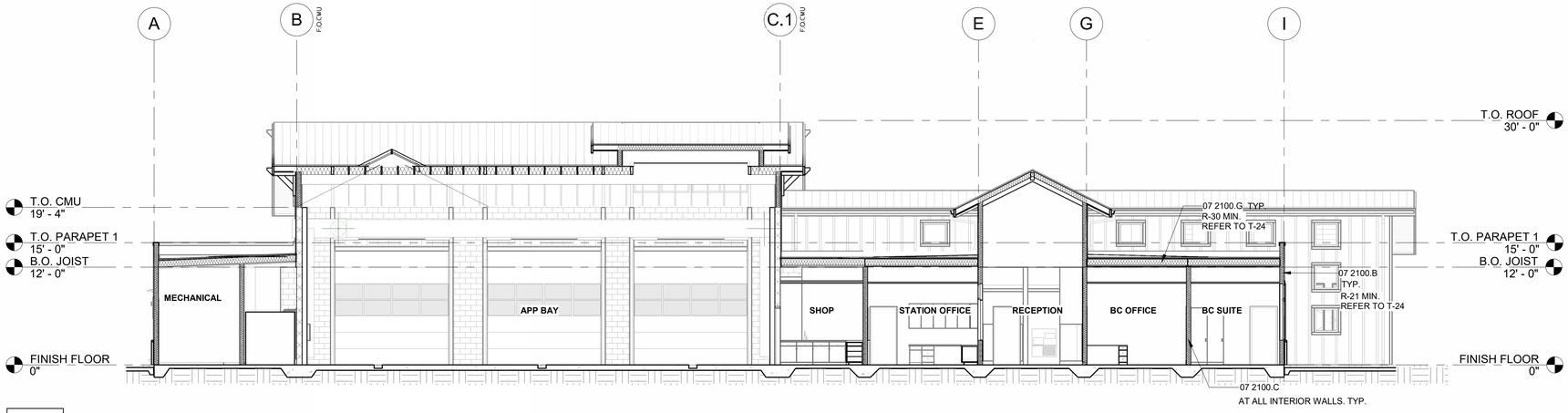
EXTERIOR ELEVATIONS

NO.	REVISION	DATE

PROJECT MANAGER: MLS
DRAWN BY: APP | CHECKED BY: CW
DATE: MAY 4, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: A-204

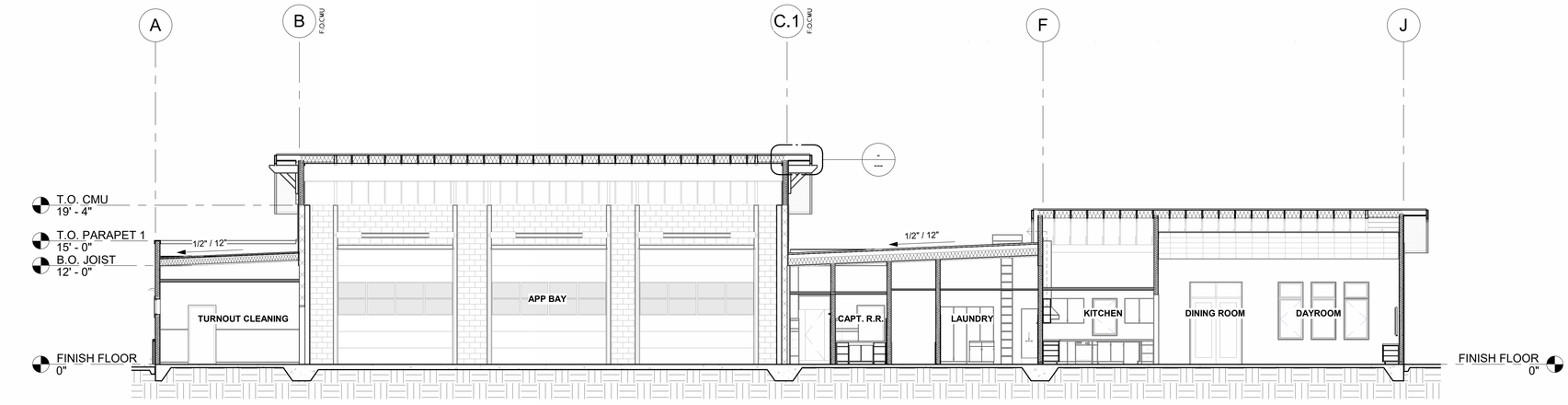
County of Madera – CFD Building and Fire Safety
Approved Plans
Approved under the 2022 California Building Codes
Date 05/04/2026
This approval is subject to all applicable Codes and Ordinances, not valid without signature

4/30/2026 3:48:47 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt



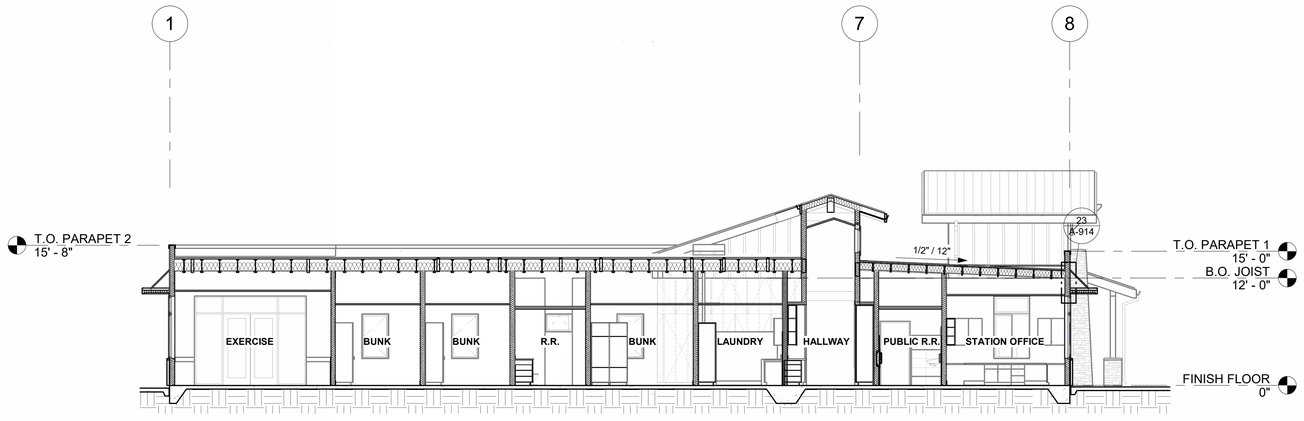
1 SECTION 1

A-101 | A-301 SCALE: 1/8" = 1'-0"



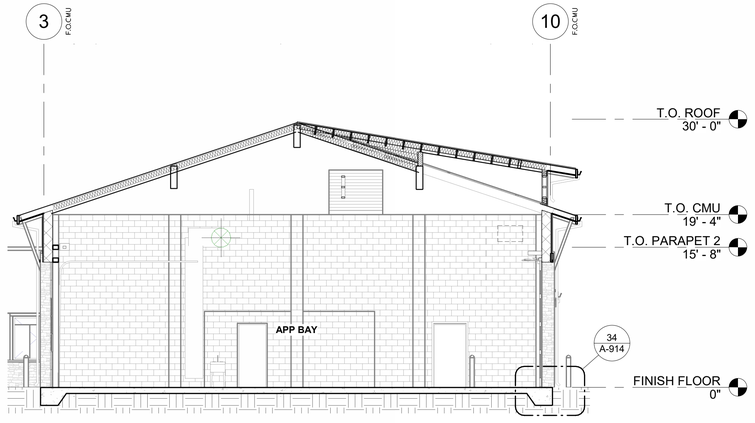
2 SECTION 2

A-101 | A-301 SCALE: 1/8" = 1'-0"



3 SECTION 3

A-101 | A-301 SCALE: 1/8" = 1'-0"



4 SECTION 4

A-101 | A-301 SCALE: 1/8" = 1'-0"

KEYNOTES

07 2100.B	EXTERIOR WALL BATT INSULATION.
07 2100.C	SOUND BATT INSULATION.
07 2100.G	AIR-IMPERMEABLE AND AIR-PERMEABLE INSULATION ARE TO BE PROVIDED PER CBC 1203.3 EXCEPTION 5.1.3. REFER TO INSULATION NOTE ON ROOF PLAN.

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. THESE RESTRICTIONS SHALL BE BINDING ON ALL USERS OF SAME. NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

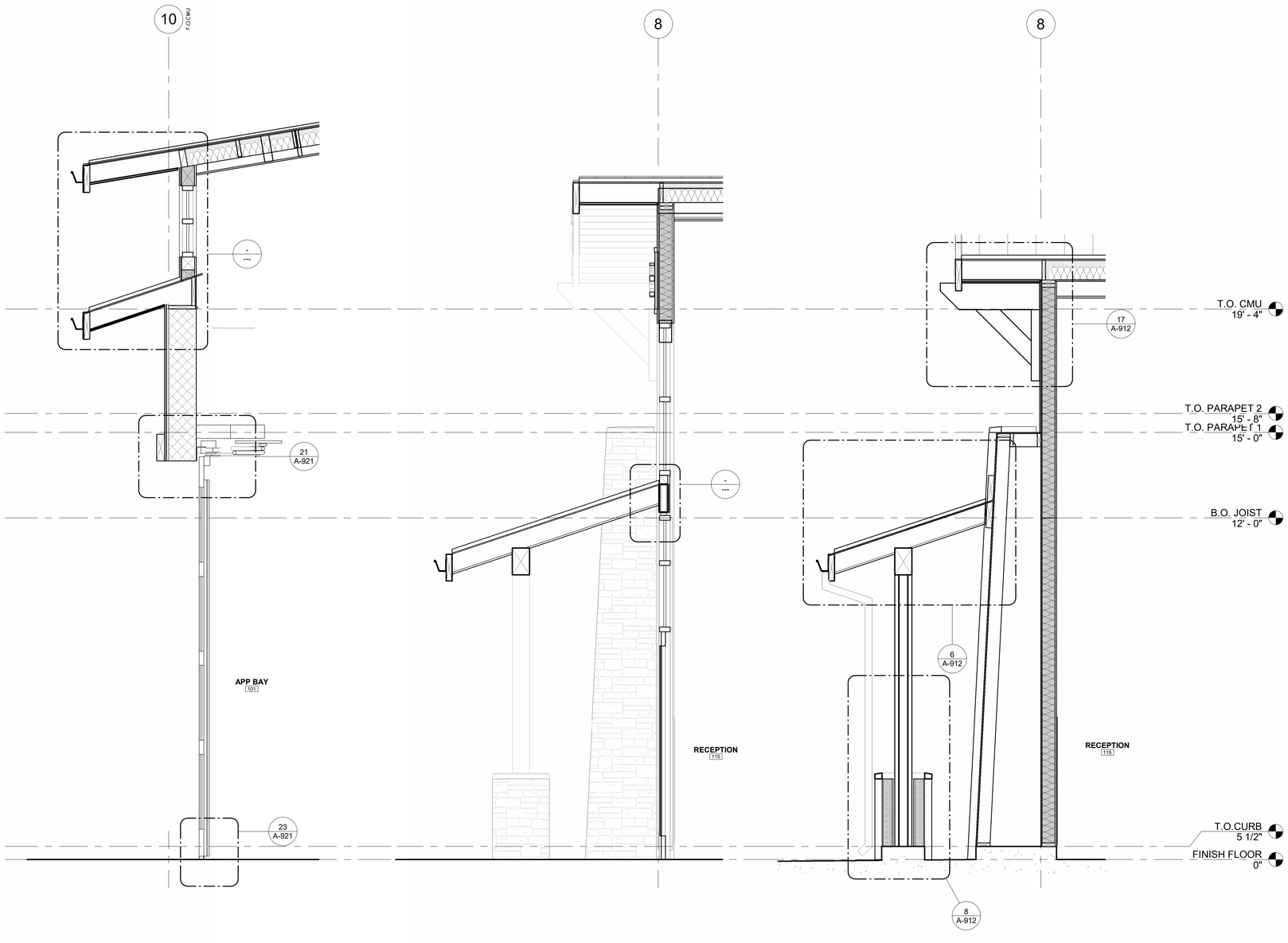
BUILDING SECTIONS

NO.	REVISION	DATE

PROJECT MANAGER
MLS
DRAWN BY
CW
CHECKED BY
MLS
DATE
MAY 4 2026
PROJECT NUMBER
2471-01-CI21
SHEET
A-301

County of Madera – CEO Building and Fire Safety
Building Division Approved Under the 2022 California Building Codes and Ordinances, not valid without Approved Stamp

4/30/2026 3:48:49 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt



3 WALL SECTION 3

A-101 | A-310 SCALE: 1/2" = 1'-0"

2 WALL SECTION 2

A-101 | A-310 SCALE: 1/2" = 1'-0"

1 WALL SECTION 1

A-101 | A-310 SCALE: 1/2" = 1'-0"

KEYNOTES

rrmdesign.com | (805) 543-1794

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. THE SUBMISSION OR DISTRIBUTION OF THESE DOCUMENTS TO OTHERS SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

WALL SECTIONS

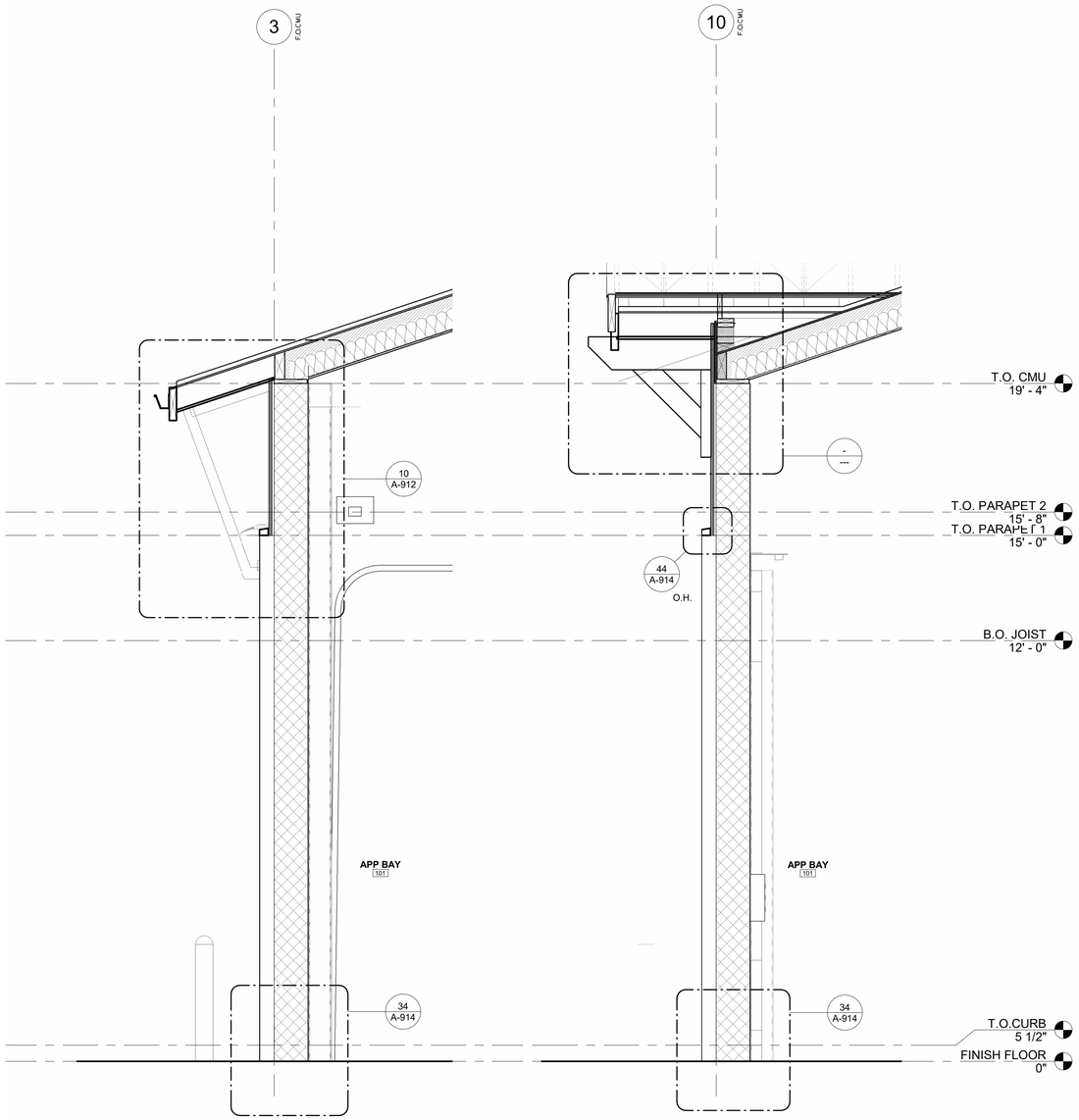
NO.	REVISION	DATE

PROJECT MANAGER MLS
DRAWN BY CW | CHECKED BY CW
DATE MAY 4, 2026
PROJECT NUMBER 2471-01-CI21
SHEET A-310

County of Madera – CFD Building and Fire Safety
Plans Approved Under the 2022 California Building Codes and Ordinances, not valid without signature
Date 05/04/2026

4/30/2026 3:48:50 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt

KEYNOTES



5 WALL SECTION 5

A-101 | A-311 SCALE: 1/2" = 1'-0"

4 WALL SECTION 4

A-101 | A-311 SCALE: 1/2" = 1'-0"

rrm design group

rrmdesign.com | (805) 543-1794

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. THESE DRAWINGS AND SPECIFICATIONS ARE NOT TO BE USED IN PART OR WHOLE FOR ANY BUILDING OR PROJECT WITHOUT THE EXPRESS WRITTEN PERMISSION OF RRM DESIGN GROUP. ANY UNAUTHORIZED USE SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.

RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

WALL SECTIONS

NO.	REVISION	DATE

PROJECT MANAGER
MLS

DRAWN BY
APP

CHECKED BY
CW

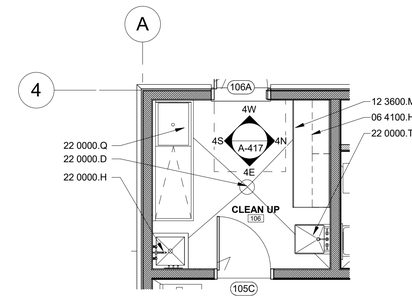
DATE
MAY 4 2026

PROJECT NUMBER
2471-01-CI21

SHEET
A-311

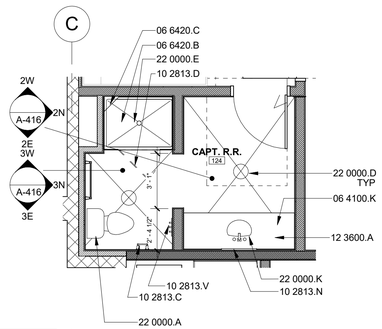
County of Madera – CFD Building and Fire Safety
Building Division
Approved Under the 2022 California Building Codes and Ordinances, not valid without signature
Date 05/04/2026

4/30/2026 3:48:51 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt



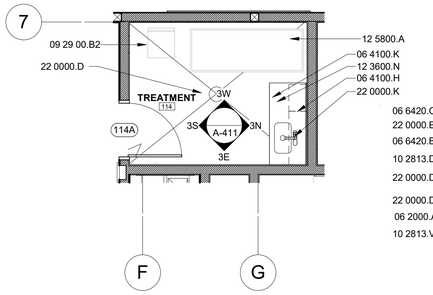
9 CLEANUP

A-101 | A-401 SCALE: 1/4" = 1'-0"



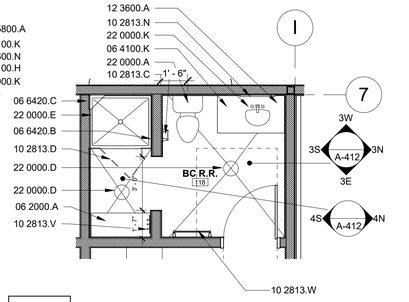
5 CAPT. R.R.

A-101 | A-401 SCALE: 1/4" = 1'-0"



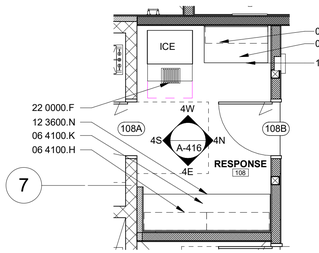
10 TREATMENT

A-101 | A-401 SCALE: 1/4" = 1'-0"



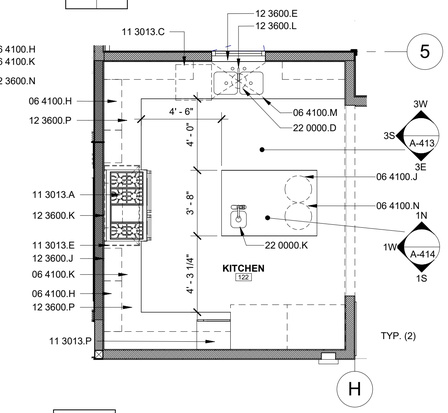
6 B.C. R.R.

A-101 | A-401 SCALE: 1/4" = 1'-0"



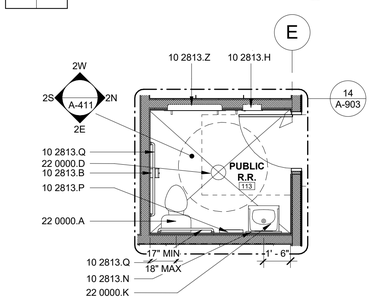
11 RESPONSE

A-101 | A-401 SCALE: 1/4" = 1'-0"



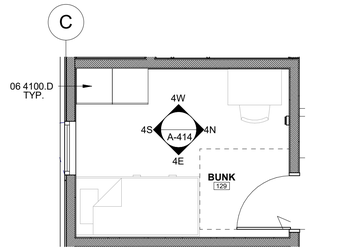
7 KITCHEN

A-101 | A-401 SCALE: 1/4" = 1'-0"



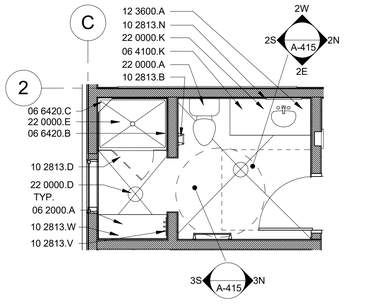
8 PUBLIC R.R.

A-101 | A-401 SCALE: 1/4" = 1'-0"



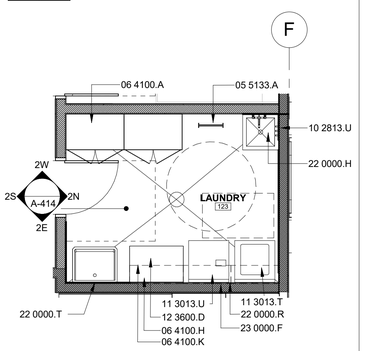
1 TYP. BUNK ROOM

A-101 | A-401 SCALE: 1/4" = 1'-0"



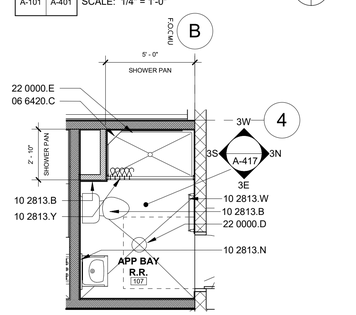
2 TYP. R.R.

A-101 | A-401 SCALE: 1/4" = 1'-0"



3 LAUNDRY

A-101 | A-401 SCALE: 1/4" = 1'-0"



4 APP BAY R.R.

A-101 | A-401 SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.
2. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION.
3. REFER TO MECHANICAL PLANS FOR FURTHER INFORMATION.
4. REFER TO PLUMBING PLANS FOR FURTHER INFORMATION.
5. REFER TO FINISH PLAN AND SCHEDULE FOR INTERIOR WALL, CEILING AND FLOOR FINISH INFORMATION.
6. DIMENSIONS ARE TO FACE OF SHEATHING OR CMU U.N.O
7. PROVIDE ADEQUATE BLOCKING IN WALLS FOR CABINETS AND OTHER WALL MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO HANDRAILS, SHELVING AND BATHROOM FIXTURES, WHITEBOARDS, & BULLETIN BOARDS
9. PROVIDE FIRE BLOCKING FOR WALL CAVITIES THAT EXCEED CBC HEIGHT LIMITATION.
10. REFER TO ELEVATIONS FOR CLERESTORY WINDOW TAGS.
11. PROVIDE ADDITIONAL SHEATHING AT ALL WALLS W/ SHEAR WALL SHEATHING FOR A SMOOTH AND FLUSH FINISH. FULL EXTENT OF WALL LINE TO AVOID ANY STEPS IN FINISH.
12. ALL SURFACE MOUNTED CONDUIT TO BE PAINTED TO MATCH INTERIOR WALL COLOR.
14. SEE SHEET A-102 FOR WALL TYPE TAGS.
15. SEE FF&E PLAN FOR FURNITURE AND EQUIPMENT NOT SHOWN.

KEYNOTES

05 5133.A	INTERIOR METAL LADDER.
06 2000.A	WOOD SHOWER BENCH. REFER TO INTERIOR DETAILS
06 4100.A	FULL HT. CABINETS W/ ADJUSTABLE SHELVING & DOORS.
06 4100.D	WARDROBE LOCKERS W/CLOTHES ROD, SHELF, DRAWERS & LOCKABLE DOORS. REFER TO INTERIOR DETAILS
06 4100.H	UPPER CABINETS W/DOORS & ADJUSTABLE SHELVING.
06 4100.J	BASE CABINET TO HOUSE TRASH / RECYCLE BINS
06 4100.K	BASE CABINETS W/ DRAWERS, DOORS & ADJUSTABLE SHELVING
06 4100.M	BASE CABINET WITH NO SHELF OR TOEKICK
06 4100.N	ISLAND BASE CABINET. REFER TO INTERIOR ELEVATIONS.
06 6420.B	SOLID POLYMER SHOWER ENCLOSURE
06 6420.C	SOLID POLYMER SOAP / SHAMPOO SHELF
09 29 00.B2	
10 2813.B	SURFACE MOUNTED TOILET PAPER DISPENSER
10 2813.C	TOILET PAPER HOLDER
10 2813.D	GLASS SHOWER ENLOSURE AND DOOR
10 2813.H	SEMI-RECESSED WASTE RECEPTACLE AND PAPER TOWEL DISPENSER.
10 2813.N	MIRROR
10 2813.P	SEAT COVER DISPENSER
10 2813.Q	GRAB BAR
10 2813.U	MOP RACK
10 2813.V	ROBE HOOK.
10 2813.W	TOWEL BAR.
10 2813.Y	SHOWER CURTAIN ROD.
10 2813.Z	BABY CHANGING STATION
11 3013.A	OVEN / RANGE
11 3013.C	DISHWASHER
11 3013.E	VENT HOOD
11 3013.P	MICROWAVE
11 3013.T	CLOTHES WASHER, TO MEET THE PROVISIONS OF CBC 11B-611.
11 3013.U	CLOTHES DRYER, TO MEET THE PROVISIONS OF CBC 11B-611.
12 3600.A	SOLID SURFACE COUNTERTOP.
12 3600.D	PLASTIC LAMINATE COUNTERTOP & BACKSPLASH
12 3600.E	QUARTZ WINDOW SILL
12 3600.J	QUARTZ PANEL FROM FLOOR TO TOP OF BASE CABINET AT SIDE OF RANGE
12 3600.K	QUARTZ PANEL WALL PANEL FROM FLOOR TO BOTTOM OF HOOD BEHIND RANGE
12 3600.L	QUARTZ INTEGRAL SINK. REFER TO PLUMBING
12 3600.M	GALVANIZED COUNTERTOP WITH MARINE EDGE
12 3600.N	GALVANIZED WALL CAP WITH HEMMED EDGES
12 3600.P	QUARTZ COUNTERTOP
12 5800.A	FURNITURE N.I.C., TYP.
22 0000.A	PLUMBING FIXTURE. REFER TO PLUMBING
22 0000.D	FLOOR DRAIN. REFER TO PLUMBING
22 0000.E	SHOWER PAN. REFER TO PLUMBING
22 0000.F	FLOOR SINK. REFER TO PLUMBING
22 0000.H	MOP SINK. REFER TO PLUMBING
22 0000.K	SINK. REFER TO PLUMBING
22 0000.Q	WASHDOWN SINK WITH INTEGRAL DRAINBOARDS- REFER TO PLUMBING
22 0000.R	LAUNDRY HOOK-UPS. REFER TO PLUMBING AND ELECTRICAL
22 0000.T	SERVICE SINK, SEE PLUMBING DRAWINGS.
23 0000.F	DRYER VENT. REFER TO MECHANICAL

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SHOULD CONSTRUCTION COMMENCE, THE USE OF THESE PLANS SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

ENLARGED FLOOR PLANS

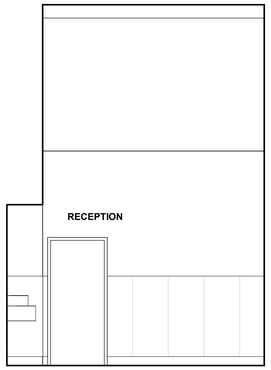
NO.	REVISION	DATE
A	PLAN CLARIFICATIONS	xx/xx/xx

PROJECT MANAGER: MLS
DRAWN BY: CW
CHECKED BY: CW
DATE: MAY 4, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: A-401

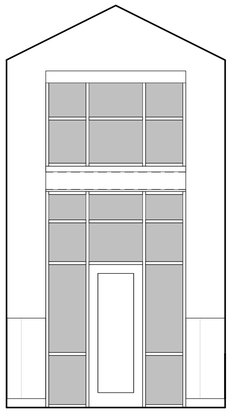
County of Madera – CFD Building and Fire Safety Plan Review
Plans Approved as Noted
Date 05/04/2026
Plans Reviewed Under the 2022 California Building Code
Codes and Ordinances, not valid without signature

BID DOCUMENTS

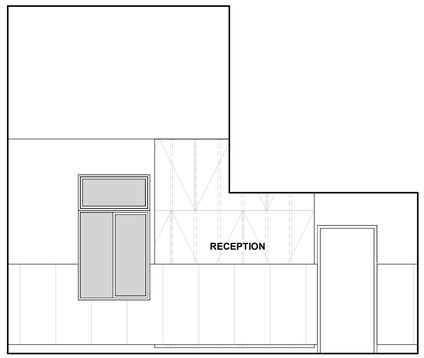
4/30/2026 3:48:52 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt



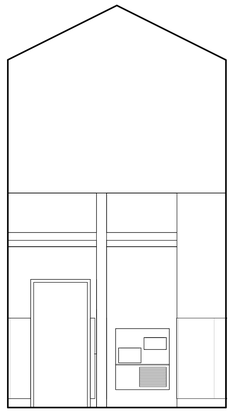
1N RECEPTION NORTH
A-101 | A-411 SCALE: 1/4" = 1'-0"



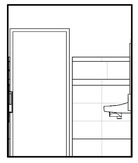
1E RECEPTION EAST
A-101 | A-411 SCALE: 1/4" = 1'-0"



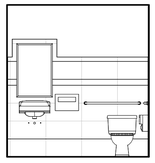
1S RECEPTION SOUTH
A-101 | A-411 SCALE: 1/4" = 1'-0"



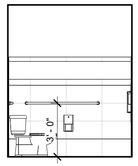
1W RECEPTION WEST
A-101 | A-411 SCALE: 1/4" = 1'-0"



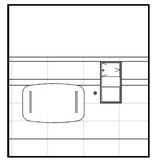
2N PUBLIC R.R. NORTH
A-101 | A-411 SCALE: 1/4" = 1'-0"



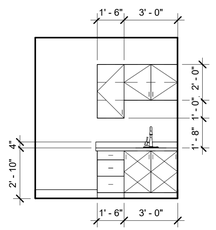
2E PUBLIC R.R. EAST
A-101 | A-411 SCALE: 1/4" = 1'-0"



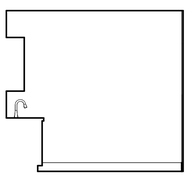
2S PUBLIC R.R. SOUTH
A-101 | A-411 SCALE: 1/4" = 1'-0"



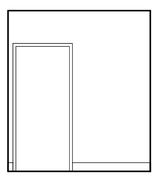
2W PUBLIC R.R. WEST
A-101 | A-411 SCALE: 1/4" = 1'-0"



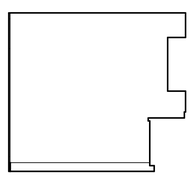
3N TREATMENT NORTH
A-101 | A-411 SCALE: 1/4" = 1'-0"



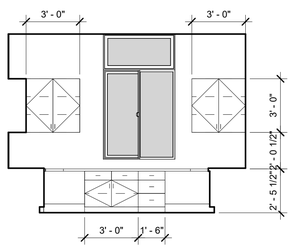
3E TREATMENT EAST
A-101 | A-411 SCALE: 1/4" = 1'-0"



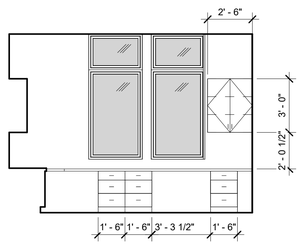
3S TREATMENT SOUTH
A-101 | A-411 SCALE: 1/4" = 1'-0"



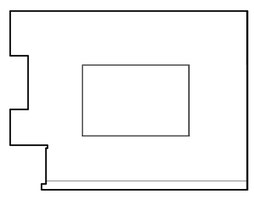
3W TREATMENT WEST
A-101 | A-411 SCALE: 1/4" = 1'-0"



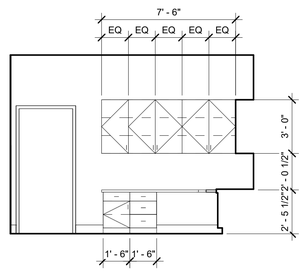
4N STATION OFFICE NORTH
A-101 | A-411 SCALE: 1/4" = 1'-0"



4E STATION OFFICE EAST
A-101 | A-411 SCALE: 1/4" = 1'-0"



4S STATION OFFICE SOUTH
A-101 | A-411 SCALE: 1/4" = 1'-0"



4W STATION OFFICE WEST
A-101 | A-411 SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.
2. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION.
3. REFER TO MECHANICAL PLANS FOR FURTHER INFORMATION.
4. REFER TO PLUMBING PLANS FOR FURTHER INFORMATION.
5. REFER TO FINISH PLAN AND SCHEDULE FOR INTERIOR WALL, CEILING AND FLOOR FINISH INFORMATION.
6.. DIMENSIONS ARE TO FACE OF SHEATHING OR CMU U.N.O
7 PROVIDE ADEQUATE BLOCKING IN WALLS FOR CABINETS AND OTHER WALL MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO HANDRAILS, SHELVING AND BATHROOM FIXTURES, WHITEBOARDS, & BULLETIN BOARDS
9. PROVIDE FIRE BLOCKING FOR WALL CAVITIES THAT EXCEED CBC HEIGHT LIMITATION.
10. REFER TO ELEVATIONS FOR CLERESTORY WINDOW TAGS.
11. PROVIDE ADDITIONAL SHEATHING AT ALL WALLS W/ SHEAR WALL SHEATHING FOR A SMOOTH AND FLUSH FINISH. FULL EXTENT OF WALL LINE TO AVOID ANY STEPS IN FINISH.
12. ALL SURFACE MOUNTED CONDUIT TO BE PAINTED TO MATCH INTERIOR WALL COLOR.
14. SEE SHEET A-102 FOR WALL TYPE TAGS.
15. SEE FF&E PLAN FOR FURNITURE AND EQUIPMENT NOT SHOWN.

CASEWORK NOTES

1. ALL BASE CABINETS TO BE 24" DEEP U.N.O.
2. ALL UPPER CABINETS TO BE 14" DEEP U.N.O.
3. ALL UPPER & BASE CABINETS TO EXTEND INTO CORNERS TO AVOID UNUSABLE SPACE.
4. PROVIDE PULL-OUT ADJUSTABLE SHELVING AT ALL BASE CABINETS U.N.O.
5. REFER TO DETAILS FOR ALL BASE CABINET ANCHORAGE.
6. REFER TO DETAILS FOR SOLID SURFACE COUNTERTOPS.
7. REFER TO DETAILS FOR TRANSITION OF BASE AT CASEWORK LOCATIONS.
8. CONTRACTOR TO VERIFY ALL EQUIPMENT SIZES ADJACENT TO CASEWORK PRIOR TO FABRICATION OF CASEWORK
9. FOR LOCKABLE CABINETS, REFER TO SPECIFICATIONS FOR KEYING SCHEDULE

NOTE:
REFER TO DETAIL 42 / A-931 FOR TILE WAINSCOT PATTERN
REFER TO DETAIL 12 / A-903 FOR RESTROOM FIXTURES & SIGNAGE
REFER TO DETAIL 13 / A-903 FOR ACC. RESTROOM ACCESSORIES
REFER TO DETAIL 21 / A-903 FOR ACC. LAVATORIES
REFER TO DETAIL 22 / A-903 FOR ACC. GRAB BAR ATTACHMENT
REFER TO DETAIL 23 / A-903 FOR ACC. TOILETS
REFER TO DETAIL 52 / A-913 FOR SHOWER WALL TRIM

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. ANY UNAUTHORIZED USE OF THESE DRAWINGS OR SPECIFICATIONS SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

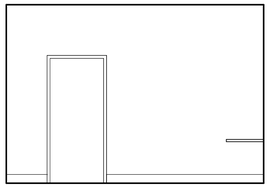
INTERIOR ELEVATIONS

NO.	REVISION	DATE

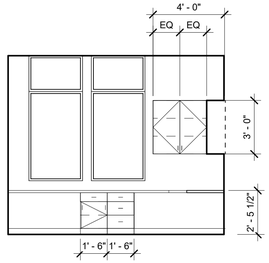
PROJECT MANAGER
MLS
DRAWN BY
CW
CHECKED BY
DATE
MAY 4, 2026
Date: 05/04/2026
PROJECT NUMBER
2471-01-CI21
SHEET
A-411

County of Madera – CFD Building and Fire Safety
Plans Approved Under the 2022 California Building
Codes and Ordinances, not valid without signature

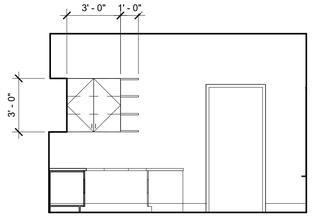
4/30/2026 3:48:53 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt



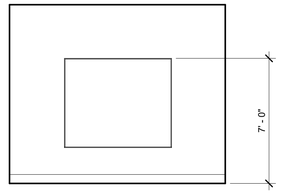
1N B.C. OFFICE NORTH
A-101 | A-412 SCALE: 1/4" = 1'-0"



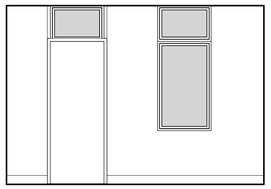
1E B.C. OFFICE EAST
A-101 | A-412 SCALE: 1/4" = 1'-0"



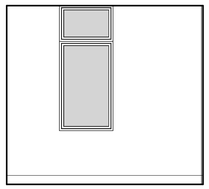
1S B.C. OFFICE SOUTH
A-101 | A-412 SCALE: 1/4" = 1'-0"



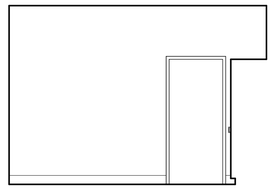
1W B.C. OFFICE WEST
A-101 | A-412 SCALE: 1/4" = 1'-0"



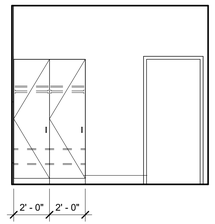
2N B.C. SUITE NORTH
A-101 | A-412 SCALE: 1/4" = 1'-0"



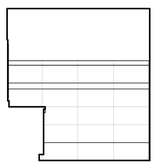
2E B.C. SUITE EAST
A-101 | A-412 SCALE: 1/4" = 1'-0"



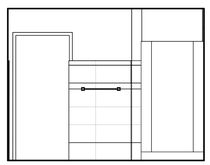
2S B.C. SUITE SOUTH
A-101 | A-412 SCALE: 1/4" = 1'-0"



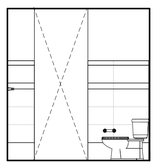
2W B.C. SUITE WEST
A-101 | A-412 SCALE: 1/4" = 1'-0"



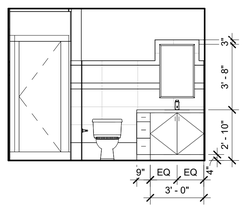
3N B.C. R.R. NORTH
A-401 | A-412 SCALE: 1/4" = 1'-0"



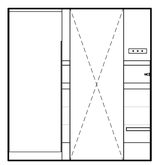
3E B.C. R.R. EAST
A-401 | A-412 SCALE: 1/4" = 1'-0"



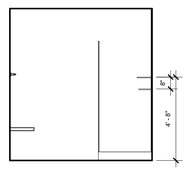
3S B.C. R.R. SOUTH
A-401 | A-412 SCALE: 1/4" = 1'-0"



3W B.C. R.R. WEST
A-401 | A-412 SCALE: 1/4" = 1'-0"



4N B.C. R.R. SHOWER NORTH
A-401 | A-412 SCALE: 1/4" = 1'-0"



4S B.C. R.R. SHOWER SOUTH
A-401 | A-412 SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.
2. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION.
3. REFER TO MECHANICAL PLANS FOR FURTHER INFORMATION.
4. REFER TO PLUMBING PLANS FOR FURTHER INFORMATION.
5. REFER TO FINISH PLAN AND SCHEDULE FOR INTERIOR WALL, CEILING AND FLOOR FINISH INFORMATION.
6. DIMENSIONS ARE TO FACE OF SHEATHING OR CMU U.N.O
7. PROVIDE ADEQUATE BLOCKING IN WALLS FOR CABINETS AND OTHER WALL MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO HANDRAILS, SHELVING AND BATHROOM FIXTURES, WHITEBOARDS, & BULLETIN BOARDS
9. PROVIDE FIRE BLOCKING FOR WALL CAVITIES THAT EXCEED CBC HEIGHT LIMITATION.
10. REFER TO ELEVATIONS FOR CLERESTORY WINDOW TAGS.
11. PROVIDE ADDITIONAL SHEATHING AT ALL WALLS W/ SHEAR WALL SHEATHING FOR A SMOOTH AND FLUSH FINISH. FULL EXTENT OF WALL LINE TO AVOID ANY STEPS IN FINISH.
12. ALL SURFACE MOUNTED CONDUIT TO BE PAINTED TO MATCH INTERIOR WALL COLOR.
14. SEE SHEET A-102 FOR WALL TYPE TAGS.
15. SEE FF&E PLAN FOR FURNITURE AND EQUIPMENT NOT SHOWN.

CASEWORK NOTES

1. ALL BASE CABINETS TO BE 24" DEEP U.N.O.
2. ALL UPPER CABINETS TO BE 14" DEEP U.N.O.
3. ALL UPPER & BASE CABINETS TO EXTEND INTO CORNERS TO AVOID UNUSABLE SPACE.
4. PROVIDE PULL-OUT ADJUSTABLE SHELVING AT ALL BASE CABINETS U.N.O.
5. REFER TO DETAILS FOR ALL BASE CABINET ANCHORAGE.
6. REFER TO DETAILS FOR SOLID SURFACE COUNTERTOPS.
7. REFER TO DETAILS FOR TRANSITION OF BASE AT CASEWORK LOCATIONS.
8. CONTRACTOR TO VERIFY ALL EQUIPMENT SIZES ADJACENT TO CASEWORK PRIOR TO FABRICATION OF CASEWORK
9. FOR LOCKABLE CABINETS, REFER TO SPECIFICATIONS FOR KEYING SCHEDULE

TYPICAL DETAILS

NOTE:
REFER TO DETAIL 42 / A-931 FOR TILE WAINSCOT PATTERN
REFER TO DETAIL 12 / A-903 FOR RESTROOM FIXTURES & SIGNAGE
REFER TO DETAIL 13 / A-903 FOR ACC. RESTROOM ACCESSORIES
REFER TO DETAIL 21 / A-903 FOR ACC. LAVATORIES
REFER TO DETAIL 22 / A-903 FOR ACC. GRAB BAR ATTACHMENT
REFER TO DETAIL 23 / A-903 FOR ACC. TOILETS
REFER TO DETAIL 52 / A-913 FOR SHOWER WALL TRIM

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SHOULD CONSTRUCTION BEGIN, IT SHALL BE CONSIDERED AS SUCH). NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

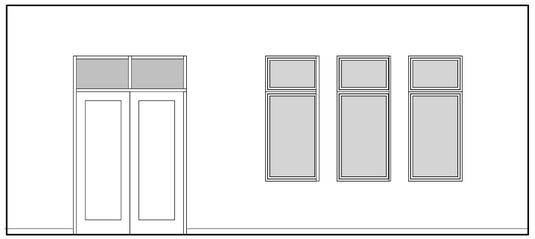
INTERIOR ELEVATIONS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

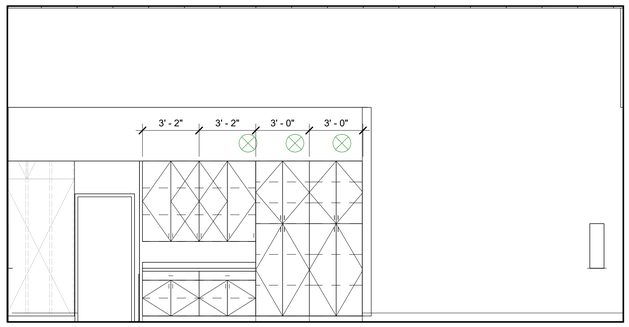
PROJECT MANAGER: MLS
DRAWN BY: AP
CHECKED BY: CW
DATE: MAY 4, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: A-412

County of Madera – CFD Building and Fire Safety
Building Division
Approved as noted. Valid under the 2022 California Building Codes and Ordinances, not valid without signature
Date: 05/04/2026

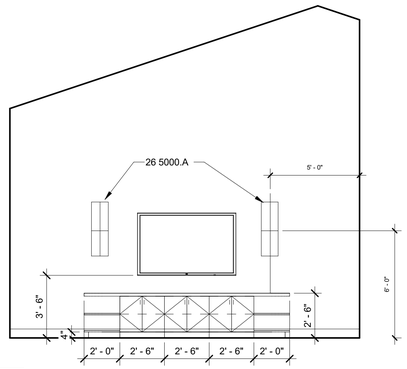
4/30/2026 3:48:53 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt



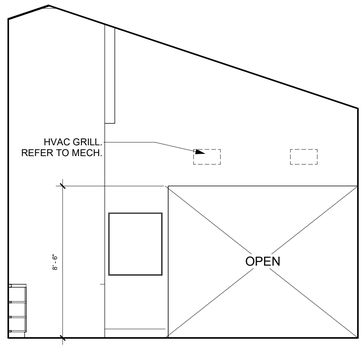
1W DAYROOM AND DINING ROOM WEST
A-101 A-413 SCALE: 1/4" = 1'-0"



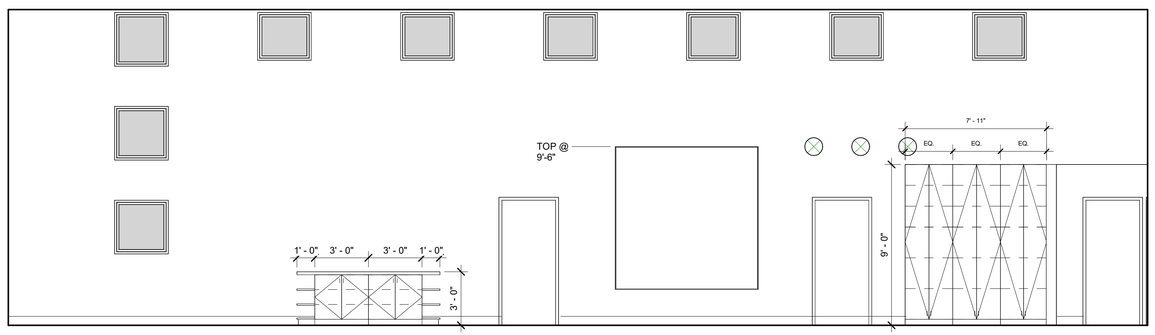
2W HALLWAY WEST
A-101 A-413 SCALE: 1/4" = 1'-0"



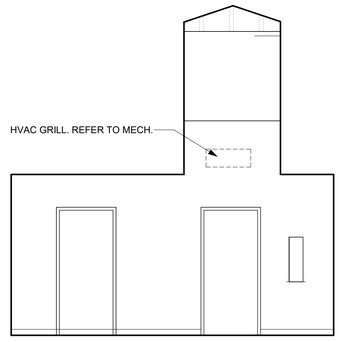
1N DAYROOM AND DINING ROOM NORTH
A-101 A-413 SCALE: 1/4" = 1'-0"



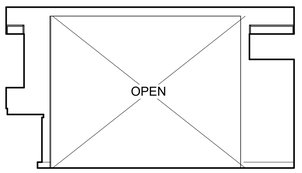
1S DAYROOM AND DINING ROOM SOUTH
A-101 A-413 SCALE: 1/4" = 1'-0"



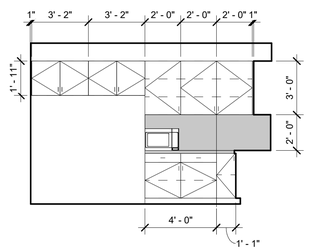
2E HALLWAY EAST
A-101 A-413 SCALE: 1/4" = 1'-0"



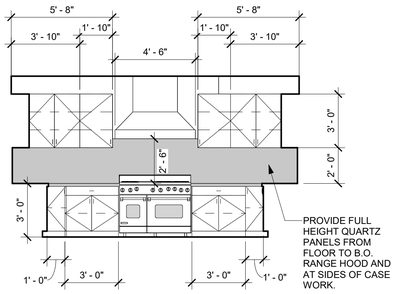
2S HALLWAY SOUTH
A-101 A-413 SCALE: 1/4" = 1'-0"



3N KITCHEN NORTH
A-401 A-413 SCALE: 1/4" = 1'-0"

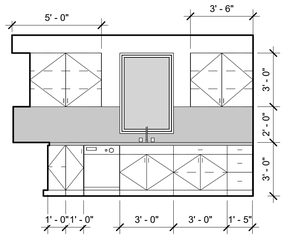


3E KITCHEN EAST
A-401 A-413 SCALE: 1/4" = 1'-0"



TYP

3S KITCHEN SOUTH
A-401 A-413 SCALE: 1/4" = 1'-0"



3W KITCHEN WEST
A-401 A-413 SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.
2. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION.
3. REFER TO MECHANICAL PLANS FOR FURTHER INFORMATION.
4. REFER TO PLUMBING PLANS FOR FURTHER INFORMATION.
5. REFER TO FINISH PLAN AND SCHEDULE FOR INTERIOR WALL, CEILING AND FLOOR FINISH INFORMATION.
6.. DIMENSIONS ARE TO FACE OF SHEATHING OR CMU U.N.O
7 PROVIDE ADEQUATE BLOCKING IN WALLS FOR CABINETS AND OTHER WALL MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO HANDRAILS, SHELVING AND BATHROOM FIXTURES, WHITEBOARDS, & BULLETIN BOARDS
9. PROVIDE FIRE BLOCKING FOR WALL CAVITIES THAT EXCEED CBC HEIGHT LIMITATION.
10. REFER TO ELEVATIONS FOR CLERESTORY WINDOW TAGS.
11. PROVIDE ADDITIONAL SHEATHING AT ALL WALLS W/ SHEAR WALL SHEATHING FOR A SMOOTH AND FLUSH FINISH. FULL EXTENT OF WALL LINE TO AVOID ANY STEPS IN FINISH.
12. ALL SURFACE MOUNTED CONDUIT TO BE PAINTED TO MATCH INTERIOR WALL COLOR.
14. SEE SHEET A-102 FOR WALL TYPE TAGS.
15. SEE FF&E PLAN FOR FURNITURE AND EQUIPMENT NOT SHOWN.

CASEWORK NOTES

1. ALL BASE CABINETS TO BE 24" DEEP U.N.O.
2. ALL UPPER CABINETS TO BE 14" DEEP U.N.O.
3. ALL UPPER & BASE CABINETS TO EXTEND INTO CORNERS TO AVOID UNUSABLE SPACE.
4. PROVIDE PULL-OUT ADJUSTABLE SHELVING AT ALL BASE CABINETS U.N.O.
5. REFER TO DETAILS FOR ALL BASE CABINET ANCHORAGE.
6. REFER TO DETAILS FOR SOLID SURFACE COUNTERTOPS.
7. REFER TO DETAILS FOR TRANSITION OF BASE AT CASEWORK LOCATIONS.
8. CONTRACTOR TO VERIFY ALL EQUIPMENT SIZES ADJACENT TO CASEWORK PRIOR TO FABRICATION OF CASEWORK
9. FOR LOCKABLE CABINETS, REFER TO SPECIFICATIONS FOR KEYING SCHEDULE

KEYNOTES

26 5000.A LIGHT FIXTURE. REFER TO ELECTRICAL

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SHOULD CONSTRUCTION BEGIN, THIS SHALL BE DEEMED AS IF SIGNED. SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

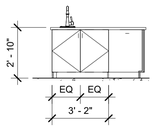
INTERIOR ELEVATIONS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER
MLS
DRAWN BY
CW
CHECKED BY
MLS
DATE
MAY 4 2026
PROJECT NUMBER
2471-01-CI21
SHEET
A-413

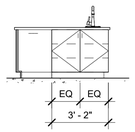
County of Madera – CFD Building and Fire Safety
Approved Plans Under this 2022 California Building
Codes and Ordinances, not valid without signature
Date 05/04/2026

4/30/2026 3:48:54 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt

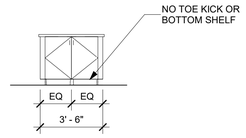


1N KITCHEN (ISLAND) NORTH
A401 | A414 SCALE: 1/4" = 1'-0"

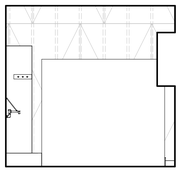
1E KITCHEN (ISLAND) EAST
A401 | A414 SCALE: 1/4" = 1'-0"



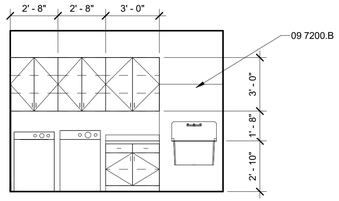
1S KITCHEN (ISLAND) SOUTH
A401 | A414 SCALE: 1/4" = 1'-0"



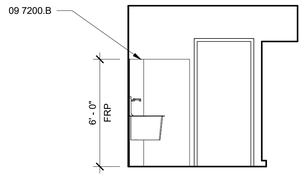
1W KITCHEN (ISLAND) WEST
A401 | A414 SCALE: 1/4" = 1'-0"



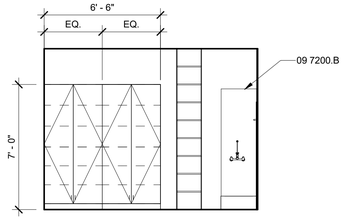
2N LAUNDRY SOUTH
A401 | A414 SCALE: 1/4" = 1'-0"



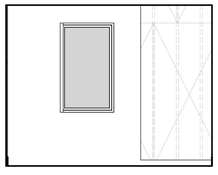
2E LAUNDRY EAST
A401 | A414 SCALE: 1/4" = 1'-0"



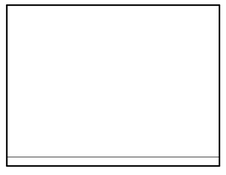
2S LAUNDRY NORTH
A401 | A414 SCALE: 1/4" = 1'-0"



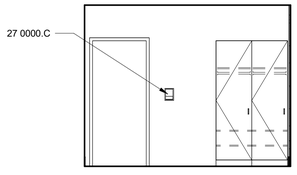
2W LAUNDRY WEST
A401 | A414 SCALE: 1/4" = 1'-0"



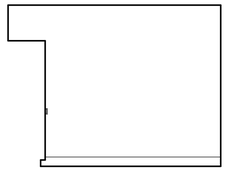
3N DOUBLE BUNK NORTH
A101 | A414 SCALE: 1/4" = 1'-0"



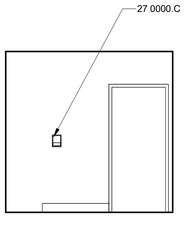
3E DOUBLE BUNK EAST
A101 | A414 SCALE: 1/4" = 1'-0"



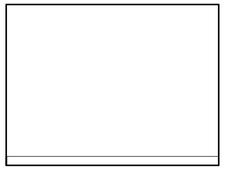
3S DOUBLE BUNK SOUTH
A101 | A414 SCALE: 1/4" = 1'-0"



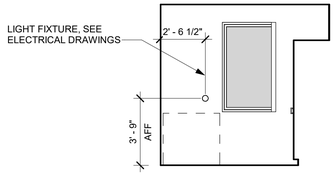
3W DOUBLE BUNK WEST
A101 | A414 SCALE: 1/4" = 1'-0"



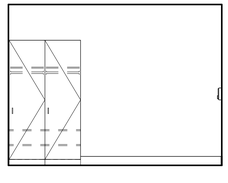
4N TYP. BUNK NORTH
A401 | A414 SCALE: 1/4" = 1'-0"



4E TYP. BUNK EAST
A401 | A414 SCALE: 1/4" = 1'-0"



4S TYP. BUNK SOUTH
A401 | A414 SCALE: 1/4" = 1'-0"



4W TYP. BUNK WEST
A401 | A414 SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.
2. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION.
3. REFER TO MECHANICAL PLANS FOR FURTHER INFORMATION.
4. REFER TO PLUMBING PLANS FOR FURTHER INFORMATION.
5. REFER TO FINISH PLAN AND SCHEDULE FOR INTERIOR WALL, CEILING AND FLOOR FINISH INFORMATION.
6.. DIMENSIONS ARE TO FACE OF SHEATHING OR CMU U.N.O
7 PROVIDE ADEQUATE BLOCKING IN WALLS FOR CABINETS AND OTHER WALL MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO HANDRAILS, SHELVING AND BATHROOM FIXTURES, WHITEBOARDS, & BULLETIN BOARDS
9. PROVIDE FIRE BLOCKING FOR WALL CAVITIES THAT EXCEED CBC HEIGHT LIMITATION.
10. REFER TO ELEVATIONS FOR CLERESTORY WINDOW TAGS.
11. PROVIDE ADDITIONAL SHEATHING AT ALL WALLS W/ SHEAR WALL SHEATHING FOR A SMOOTH AND FLUSH FINISH. FULL EXTENT OF WALL LINE TO AVOID ANY STEPS IN FINISH.
12. ALL SURFACE MOUNTED CONDUIT TO BE PAINTED TO MATCH INTERIOR WALL COLOR.
14. SEE SHEET A-102 FOR WALL TYPE TAGS.
15. SEE FF&E PLAN FOR FURNITURE AND EQUIPMENT NOT SHOWN.

CASEWORK NOTES

1. ALL BASE CABINETS TO BE 24" DEEP U.N.O.
2. ALL UPPER CABINETS TO BE 14" DEEP U.N.O.
3. ALL UPPER & BASE CABINETS TO EXTEND INTO CORNERS TO AVOID UNUSABLE SPACE.
4. PROVIDE PULL-OUT ADJUSTABLE SHELVING AT ALL BASE CABINETS U.N.O.
5. REFER TO DETAILS FOR ALL BASE CABINET ANCHORAGE.
6. REFER TO DETAILS FOR SOLID SURFACE COUNTERTOPS.
7. REFER TO DETAILS FOR TRANSITION OF BASE AT CASEWORK LOCATIONS.
8. CONTRACTOR TO VERIFY ALL EQUIPMENT SIZES ADJACENT TO CASEWORK PRIOR TO FABRICATION OF CASEWORK
9. FOR LOCKABLE CABINETS, REFER TO SPECIFICATIONS FOR KEYING SCHEDULE

KEYNOTES

09 7200.B FIBERGLASS REINFORCED PLASTIC
27 0000.C FIRE ALERTING PANEL

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. DISTRIBUTION OR PUBLICATION OF THESE DRAWINGS SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

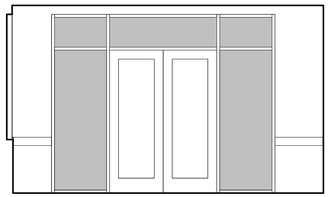
INTERIOR ELEVATIONS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

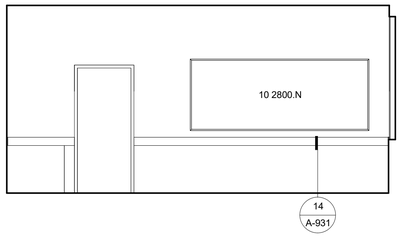
PROJECT MANAGER
MLS
DRAWN BY
CW
CHECKED BY
MLS
DATE
MAY 4, 2026
PROJECT NUMBER
2471-01-CI21
SHEET
A-414

County of Madera – CFD Building and Fire
Plans Approved Under the 2022 California
Building Code
Date: 05/04/2026
Conditions and Requirements Listed
Signature required

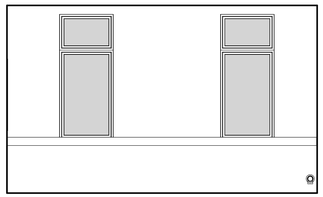
4/30/2026 3:48:55 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt



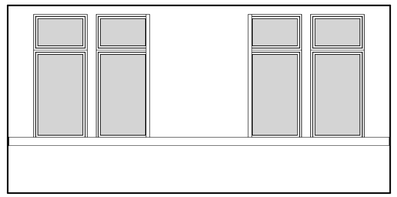
1N EXERCISE NORTH
A-101 | A-415 SCALE: 1/4" = 1'-0"



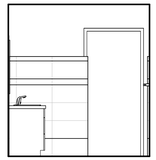
1E EXERCISE EAST
A-101 | A-415 SCALE: 1/4" = 1'-0"



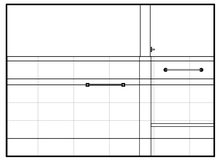
1S EXERCISE SOUTH
A-101 | A-415 SCALE: 1/4" = 1'-0"



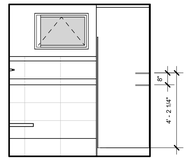
1W EXERCISE WEST
A-101 | A-415 SCALE: 1/4" = 1'-0"



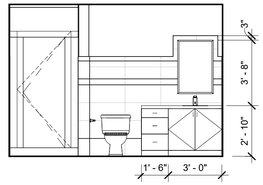
2N TYP. R.R. NORTH
A-401 | A-415 SCALE: 1/4" = 1'-0"



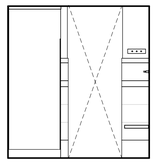
2E TYP. R.R. EAST
A-401 | A-415 SCALE: 1/4" = 1'-0"



2S TYP. R.R. SOUTH
A-401 | A-415 SCALE: 1/4" = 1'-0"



2W TYP. R.R. WEST
A-401 | A-415 SCALE: 1/4" = 1'-0"



3N TYP. R.R. (SWR) NORTH
A-401 | A-415 SCALE: 1/4" = 1'-0"

3S TYP. R.R. (SWR) SOUTH
A-401 | A-415 SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.
2. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION.
3. REFER TO MECHANICAL PLANS FOR FURTHER INFORMATION.
4. REFER TO PLUMBING PLANS FOR FURTHER INFORMATION.
5. REFER TO FINISH PLAN AND SCHEDULE FOR INTERIOR WALL, CEILING AND FLOOR FINISH INFORMATION.
6. DIMENSIONS ARE TO FACE OF SHEATHING OR CMU U.N.O
7. PROVIDE ADEQUATE BLOCKING IN WALLS FOR CABINETS AND OTHER WALL MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO HANDRAILS, SHELVING AND BATHROOM FIXTURES, WHITEBOARDS, & BULLETIN BOARDS
9. PROVIDE FIRE BLOCKING FOR WALL CAVITIES THAT EXCEED CBC HEIGHT LIMITATION.
10. REFER TO ELEVATIONS FOR CLERESTORY WINDOW TAGS.
11. PROVIDE ADDITIONAL SHEATHING AT ALL WALLS W/ SHEAR WALL SHEATHING FOR A SMOOTH AND FLUSH FINISH. FULL EXTENT OF WALL LINE TO AVOID ANY STEPS IN FINISH.
12. ALL SURFACE MOUNTED CONDUIT TO BE PAINTED TO MATCH INTERIOR WALL COLOR.
14. SEE SHEET A-102 FOR WALL TYPE TAGS.
15. SEE FF&E PLAN FOR FURNITURE AND EQUIPMENT NOT SHOWN.

CASEWORK NOTES

1. ALL BASE CABINETS TO BE 24" DEEP U.N.O.
2. ALL UPPER CABINETS TO BE 14" DEEP U.N.O.
3. ALL UPPER & BASE CABINETS TO EXTEND INTO CORNERS TO AVOID UNUSABLE SPACE.
4. PROVIDE PULL-OUT ADJUSTABLE SHELVING AT ALL BASE CABINETS U.N.O.
5. REFER TO DETAILS FOR ALL BASE CABINET ANCHORAGE.
6. REFER TO DETAILS FOR SOLID SURFACE COUNTERTOPS.
7. REFER TO DETAILS FOR TRANSITION OF BASE AT CASEWORK LOCATIONS.
8. CONTRACTOR TO VERIFY ALL EQUIPMENT SIZES ADJACENT TO CASEWORK PRIOR TO FABRICATION OF CASEWORK
9. FOR LOCKABLE CABINETS, REFER TO SPECIFICATIONS FOR KEYING SCHEDULE

TYPICAL DETAILS

NOTE:
REFER TO DETAIL 42 / A-931 FOR TILE WAINSCOT PATTERN
REFER TO DETAIL 12 / A-903 FOR RESTROOM FIXTURES & SIGNAGE
REFER TO DETAIL 13 / A-903 FOR ACC. RESTROOM ACCESSORIES
REFER TO DETAIL 21 / A-903 FOR ACC. LAVATORIES
REFER TO DETAIL 22 / A-903 FOR ACC. GRAB BAR ATTACHMENT
REFER TO DETAIL 23 / A-903 FOR ACC. TOILETS
REFER TO DETAIL 52 / A-913 FOR SHOWER WALL TRIM

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

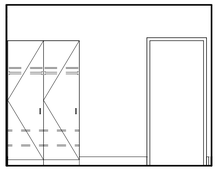
INTERIOR ELEVATIONS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

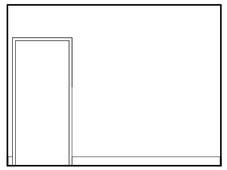
PROJECT MANAGER
MLS
DRAWN BY
CW
CHECKED BY
MLS
DATE
MAY 4, 2026
PROJECT NUMBER
2471-01-CI21
SHEET
A-415

County of Madera – CFD Building Division
Plans Approved Under the 2022 California Building and Fire Safety Codes and Ordinances, not valid without signature
Date: 05/04/2026

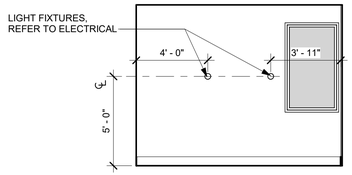
4/30/2026 3:48:55 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt



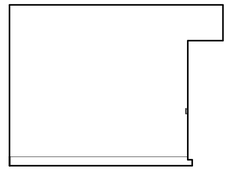
1N CAPT. BUNK NORTH
A-401 | A-416 SCALE: 1/4" = 1'-0"



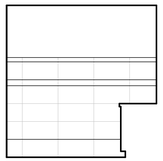
1E CAPT. BUNK EAST
A-416 SCALE: 1/4" = 1'-0"



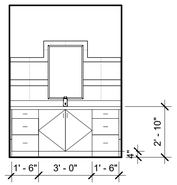
1S CAPT. BUNK SOUTH
A-401 | A-416 SCALE: 1/4" = 1'-0"



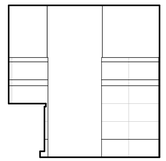
1W CAPT. BUNK WEST
A-416 SCALE: 1/4" = 1'-0"



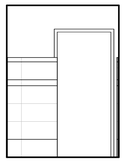
2N CAPT. R.R. NORTH
A-401 | A-416 SCALE: 1/4" = 1'-0"



2E CAPT. R.R. EAST
A-401 | A-416 SCALE: 1/4" = 1'-0"

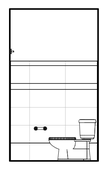


2S CAPT. R.R. SOUTH
A-401 | A-416 SCALE: 1/4" = 1'-0"

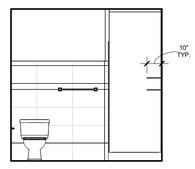


2W CAPT. R.R. WEST
A-401 | A-416 SCALE: 1/4" = 1'-0"

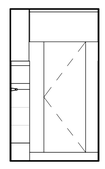
3N CAPT. R.R. (SHOWER) NORTH
A-401 | A-416 SCALE: 1/4" = 1'-0"



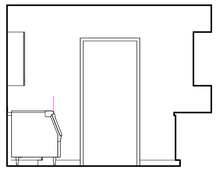
3E CAPT. R.R. (SHOWER) EAST
A-401 | A-416 SCALE: 1/4" = 1'-0"



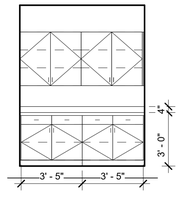
3S CAPT. R.R. (SHOWER) SOUTH
A-401 | A-416 SCALE: 1/4" = 1'-0"



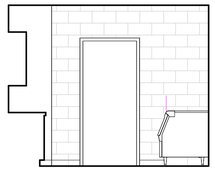
3W CAPT. R.R. (SHOWER) WEST
A-401 | A-416 SCALE: 1/4" = 1'-0"



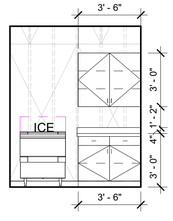
4N RESPONSE NORTH
A-401 | A-416 SCALE: 1/4" = 1'-0"



4E RESPONSE EAST
A-401 | A-416 SCALE: 1/4" = 1'-0"



4S RESPONSE SOUTH
A-401 | A-416 SCALE: 1/4" = 1'-0"



4W RESPONSE WEST
A-401 | A-416 SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.
2. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION.
3. REFER TO MECHANICAL PLANS FOR FURTHER INFORMATION.
4. REFER TO PLUMBING PLANS FOR FURTHER INFORMATION.
5. REFER TO FINISH PLAN AND SCHEDULE FOR INTERIOR WALL, CEILING AND FLOOR FINISH INFORMATION.
6.. DIMENSIONS ARE TO FACE OF SHEATHING OR CMU U.N.O
7 PROVIDE ADEQUATE BLOCKING IN WALLS FOR CABINETS AND OTHER WALL MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO HANDRAILS, SHELVING AND BATHROOM FIXTURES, WHITEBOARDS, & BULLETIN BOARDS
9. PROVIDE FIRE BLOCKING FOR WALL CAVITIES THAT EXCEED CBC HEIGHT LIMITATION.
10. REFER TO ELEVATIONS FOR CLERESTORY WINDOW TAGS.
11. PROVIDE ADDITIONAL SHEATHING AT ALL WALLS W/ SHEAR WALL SHEATHING FOR A SMOOTH AND FLUSH FINISH. FULL EXTENT OF WALL LINE TO AVOID ANY STEPS IN FINISH.
12. ALL SURFACE MOUNTED CONDUIT TO BE PAINTED TO MATCH INTERIOR WALL COLOR.
14. SEE SHEET A-102 FOR WALL TYPE TAGS.
15. SEE FF&E PLAN FOR FURNITURE AND EQUIPMENT NOT SHOWN.

CASEWORK NOTES

1. ALL BASE CABINETS TO BE 24" DEEP U.N.O.
2. ALL UPPER CABINETS TO BE 14" DEEP U.N.O.
3. ALL UPPER & BASE CABINETS TO EXTEND INTO CORNERS TO AVOID UNUSABLE SPACE.
4. PROVIDE PULL-OUT ADJUSTABLE SHELVING AT ALL BASE CABINETS U.N.O.
5. REFER TO DETAILS FOR ALL BASE CABINET ANCHORAGE.
6. REFER TO DETAILS FOR SOLID SURFACE COUNTERTOPS.
7. REFER TO DETAILS FOR TRANSITION OF BASE AT CASEWORK LOCATIONS.
8. CONTRACTOR TO VERIFY ALL EQUIPMENT SIZES ADJACENT TO CASEWORK PRIOR TO FABRICATION OF CASEWORK
9. FOR LOCKABLE CABINETS, REFER TO SPECIFICATIONS FOR KEYING SCHEDULE

TYPICAL DETAILS

NOTE:
REFER TO DETAIL 42 / A-931 FOR TILE WAINSCOT PATTERN
REFER TO DETAIL 12 / A-903 FOR RESTROOM FIXTURES & SIGNAGE
REFER TO DETAIL 13 / A-903 FOR ACC. RESTROOM ACCESSORIES
REFER TO DETAIL 21 / A-903 FOR ACC. LAVATORIES
REFER TO DETAIL 22 / A-903 FOR ACC. GRAB BAR ATTACHMENT
REFER TO DETAIL 23 / A-903 FOR ACC. TOILETS
REFER TO DETAIL 52 / A-913 FOR SHOWER WALL TRIM

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMISSION OR DISTRIBUTION OF THESE DOCUMENTS TO MEET OFFICIAL REGULATORY REQUIREMENTS OR FOR OTHER PURPOSES IN CONNECTION WITH THIS PROJECT SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

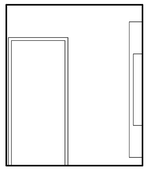
INTERIOR ELEVATIONS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

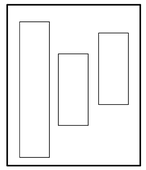
PROJECT MANAGER
MLS
DRAWN BY CHECKED BY
CW
DATE
MAY 4, 2026
PROJECT NUMBER
2471-01-CI21
SHEET
A-416

County of Madera – CFD Building and Fire Plans Approved Under the 2022 California Building & Safety Codes and Ordinances. Valid until: Date: 05/04/2026 signature

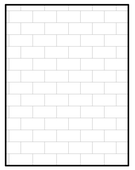
4/30/2026 3:48:56 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt



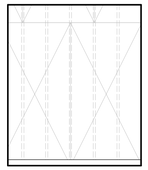
1N STORAGE / UTILITY NORTH
A-101 | A-417 SCALE: 1/4" = 1'-0"



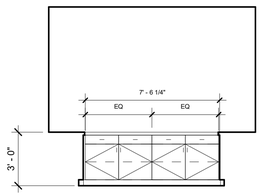
1E STORAGE / UTILITY EAST
A-101 | A-417 SCALE: 1/4" = 1'-0"



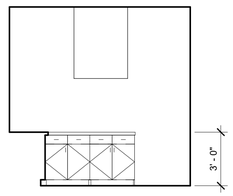
1S STORAGE / UTILITY SOUTH
A-101 | A-417 SCALE: 1/4" = 1'-0"



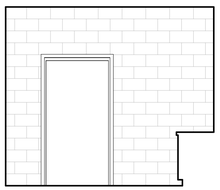
1W STORAGE / UTILITY WEST
A-101 | A-417 SCALE: 1/4" = 1'-0"



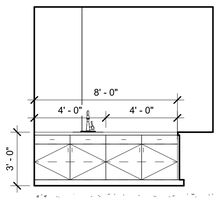
2N SHOP NORTH
A-101 | A-417 SCALE: 1/4" = 1'-0"



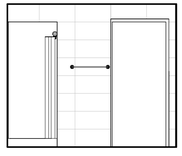
2E SHOP EAST
A-101 | A-417 SCALE: 1/4" = 1'-0"



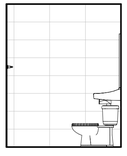
2S SHOP SOUTH
A-101 | A-417 SCALE: 1/4" = 1'-0"



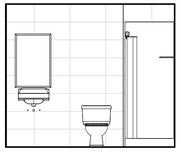
2W SHOP WEST
A-101 | A-417 SCALE: 1/4" = 1'-0"



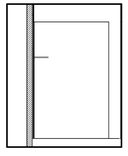
3N APP BAY RR NORTH
A-401 | A-417 SCALE: 1/4" = 1'-0"



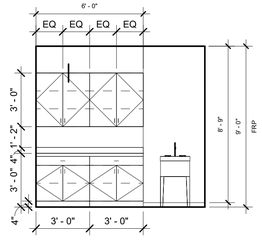
3E APP BAY RR EAST
A-401 | A-417 SCALE: 1/4" = 1'-0"



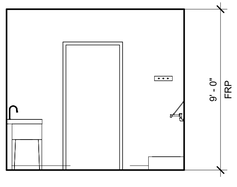
3S APP BAY RR SOUTH
A-401 | A-417 SCALE: 1/4" = 1'-0"



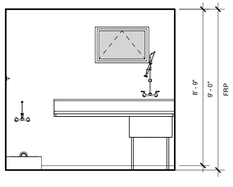
3W APP BAY RR WEST
A-401 | A-417 SCALE: 1/4" = 1'-0"



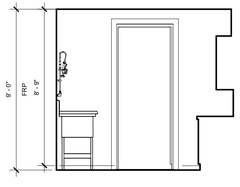
4N CLEAN UP NORTH
A-401 | A-417 SCALE: 1/4" = 1'-0"



4E CLEAN UP EAST
A-401 | A-417 SCALE: 1/4" = 1'-0"



4S CLEAN UP SOUTH
A-401 | A-417 SCALE: 1/4" = 1'-0"



4W CLEAN UP WEST
A-401 | A-417 SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.
2. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION.
3. REFER TO MECHANICAL PLANS FOR FURTHER INFORMATION.
4. REFER TO PLUMBING PLANS FOR FURTHER INFORMATION.
5. REFER TO FINISH PLAN AND SCHEDULE FOR INTERIOR WALL, CEILING AND FLOOR FINISH INFORMATION.
6.. DIMENSIONS ARE TO FACE OF SHEATHING OR CMU U.N.O
7 PROVIDE ADEQUATE BLOCKING IN WALLS FOR CABINETS AND OTHER WALL MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO HANDRAILS, SHELVING AND BATHROOM FIXTURES, WHITEBOARDS, & BULLETIN BOARDS
9. PROVIDE FIRE BLOCKING FOR WALL CAVITIES THAT EXCEED CBC HEIGHT LIMITATION.
10. REFER TO ELEVATIONS FOR CLERESTORY WINDOW TAGS.
11. PROVIDE ADDITIONAL SHEATHING AT ALL WALLS W/ SHEAR WALL SHEATHING FOR A SMOOTH AND FLUSH FINISH. FULL EXTENT OF WALL LINE TO AVOID ANY STEPS IN FINISH.
12. ALL SURFACE MOUNTED CONDUIT TO BE PAINTED TO MATCH INTERIOR WALL COLOR.
14. SEE SHEET A-102 FOR WALL TYPE TAGS.
15. SEE FF&E PLAN FOR FURNITURE AND EQUIPMENT NOT SHOWN.

CASEWORK NOTES

1. ALL BASE CABINETS TO BE 24" DEEP U.N.O.
2. ALL UPPER CABINETS TO BE 14" DEEP U.N.O.
3. ALL UPPER & BASE CABINETS TO EXTEND INTO CORNERS TO AVOID UNUSABLE SPACE.
4. PROVIDE PULL-OUT ADJUSTABLE SHELVING AT ALL BASE CABINETS U.N.O.
5. REFER TO DETAILS FOR ALL BASE CABINET ANCHORAGE.
6. REFER TO DETAILS FOR SOLID SURFACE COUNTERTOPS.
7. REFER TO DETAILS FOR TRANSITION OF BASE AT CASEWORK LOCATIONS.
8. CONTRACTOR TO VERIFY ALL EQUIPMENT SIZES ADJACENT TO CASEWORK PRIOR TO FABRICATION OF CASEWORK
9. FOR LOCKABLE CABINETS, REFER TO SPECIFICATIONS FOR KEYING SCHEDULE

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. PUBLICATION OF THE DESIGN SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

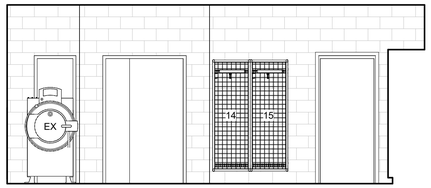
INTERIOR ELEVATIONS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

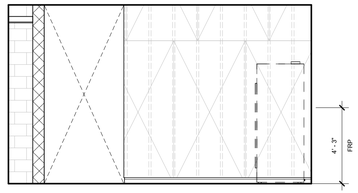
PROJECT MANAGER
MLS
DRAWN BY
CW
CHECKED BY
DATE
MAY 4, 2026
PROJECT NUMBER
2471-01-CI21
SHEET
A-417

County of Madera – CFD Building Division
Approved Under the 2022 California Building and Fire Codes
Date: 05/04/2026
Signature
Comments and Conditions not Listed

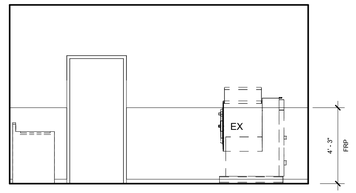
4/30/2026 3:48:56 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt



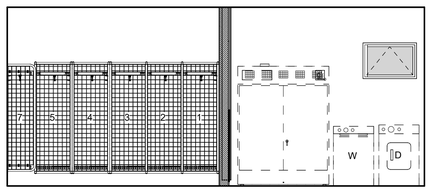
1N TURNOUT NORTH
A-101 | A-418 SCALE: 1/4" = 1'-0"



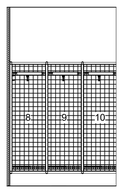
1E TURNOUT EAST
A-101 | A-418 SCALE: 1/4" = 1'-0"



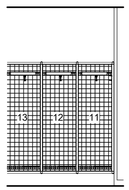
1W TURNOUT WEST
A-101 | A-418 SCALE: 1/4" = 1'-0"



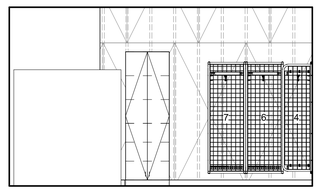
1S TURNOUT SOUTH
A-101 | A-418 SCALE: 1/4" = 1'-0"



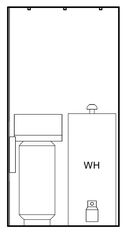
2N TURNOUT LOCKERS NORTH
A-101 | A-418 SCALE: 1/4" = 1'-0"



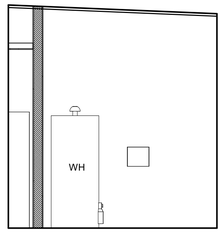
2S TURNOUT LOCKERS SOUTH
A-101 | A-418 SCALE: 1/4" = 1'-0"



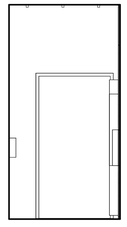
2E TURNOUT STORAGE EAST
A-101 | A-418 SCALE: 1/4" = 1'-0"



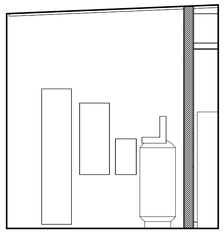
3N MECHANICAL NORTH
A-101 | A-418 SCALE: 1/4" = 1'-0"



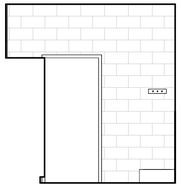
3E MECHANICAL EAST
A-101 | A-418 SCALE: 1/4" = 1'-0"



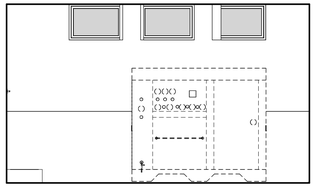
3S MECHANICAL SOUTH
A-101 | A-418 SCALE: 1/4" = 1'-0"



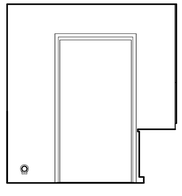
3W MECHANICAL WEST
A-101 | A-418 SCALE: 1/4" = 1'-0"



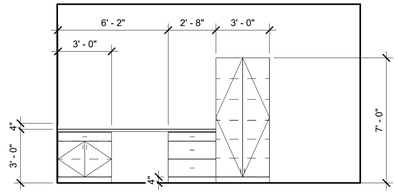
4N SCBA/JAN NORTH
A-101 | A-418 SCALE: 1/4" = 1'-0"



4E SCBA/JAN EAST
A-101 | A-418 SCALE: 1/4" = 1'-0"



4S SCBA/JAN SOUTH
A-101 | A-418 SCALE: 1/4" = 1'-0"



4W SCBA/JAN WEST
A-101 | A-418 SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.
2. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION.
3. REFER TO MECHANICAL PLANS FOR FURTHER INFORMATION.
4. REFER TO PLUMBING PLANS FOR FURTHER INFORMATION.
5. REFER TO FINISH PLAN AND SCHEDULE FOR INTERIOR WALL, CEILING AND FLOOR FINISH INFORMATION.
6.. DIMENSIONS ARE TO FACE OF SHEATHING OR CMU U.N.O
7 PROVIDE ADEQUATE BLOCKING IN WALLS FOR CABINETS AND OTHER WALL MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO HANDRAILS, SHELVING AND BATHROOM FIXTURES, WHITEBOARDS, & BULLETIN BOARDS
9. PROVIDE FIRE BLOCKING FOR WALL CAVITIES THAT EXCEED CBC HEIGHT LIMITATION.
10. REFER TO ELEVATIONS FOR CLERESTORY WINDOW TAGS.
11. PROVIDE ADDITIONAL SHEATHING AT ALL WALLS W/ SHEAR WALL SHEATHING FOR A SMOOTH AND FLUSH FINISH. FULL EXTENT OF WALL LINE TO AVOID ANY STEPS IN FINISH.
12. ALL SURFACE MOUNTED CONDUIT TO BE PAINTED TO MATCH INTERIOR WALL COLOR.
14. SEE SHEET A-102 FOR WALL TYPE TAGS.
15. SEE FF&E PLAN FOR FURNITURE AND EQUIPMENT NOT SHOWN.

CASEWORK NOTES

1. ALL BASE CABINETS TO BE 24" DEEP U.N.O.
2. ALL UPPER CABINETS TO BE 14" DEEP U.N.O.
3. ALL UPPER & BASE CABINETS TO EXTEND INTO CORNERS TO AVOID UNUSABLE SPACE.
4. PROVIDE PULL-OUT ADJUSTABLE SHELVING AT ALL BASE CABINETS U.N.O.
5. REFER TO DETAILS FOR ALL BASE CABINET ANCHORAGE.
6. REFER TO DETAILS FOR SOLID SURFACE COUNTERTOPS.
7. REFER TO DETAILS FOR TRANSITION OF BASE AT CASEWORK LOCATIONS.
8. CONTRACTOR TO VERIFY ALL EQUIPMENT SIZES ADJACENT TO CASEWORK PRIOR TO FABRICATION OF CASEWORK
9. FOR LOCKABLE CABINETS, REFER TO SPECIFICATIONS FOR KEYING SCHEDULE

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. THE COPYRIGHT NOTICE SHALL NOT BE CONSTRUED TO MEAN THAT THE WORK HAS BEEN PUBLISHED.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

INTERIOR ELEVATIONS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER
MLS
DRAWN BY
CW
CHECKED BY
MLS
DATE
MAY 4, 2026
PROJECT NUMBER
2471-01-CI21
SHEET
A-418

County of Madera – CFD Building and Fire Plans Approved under the 2022 California Building Code and Ordinances. Valid until Date: 05/04/2026 Signature required

4/30/2026 3:48:58 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt

GENERAL NOTES

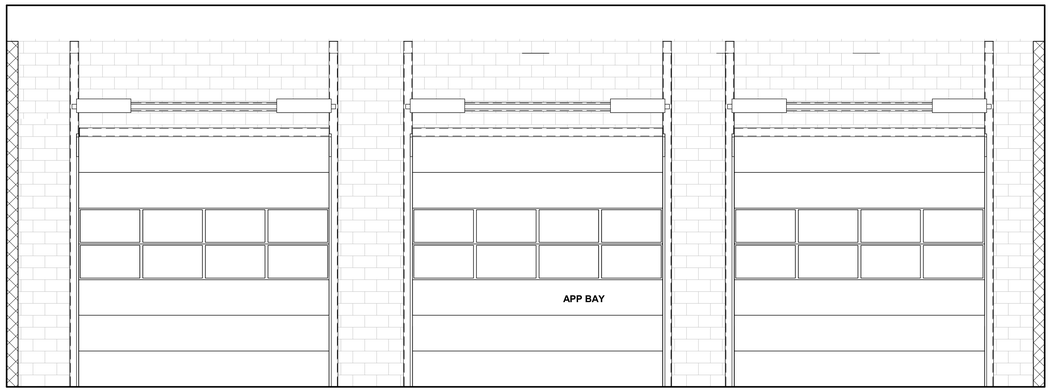
1. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.
2. REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION.
3. REFER TO MECHANICAL PLANS FOR FURTHER INFORMATION.
4. REFER TO PLUMBING PLANS FOR FURTHER INFORMATION.
5. REFER TO FINISH PLAN AND SCHEDULE FOR INTERIOR WALL, CEILING AND FLOOR FINISH INFORMATION.
6. DIMENSIONS ARE TO FACE OF SHEATHING OR CMU U.N.O
7. PROVIDE ADEQUATE BLOCKING IN WALLS FOR CABINETS AND OTHER WALL MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO HANDRAILS, SHELVING AND BATHROOM FIXTURES, WHITEBOARDS, & BULLETIN BOARDS
9. PROVIDE FIRE BLOCKING FOR WALL CAVITIES THAT EXCEED CBC HEIGHT LIMITATION.
10. REFER TO ELEVATIONS FOR CLERESTORY WINDOW TAGS.
11. PROVIDE ADDITIONAL SHEATHING AT ALL WALLS W/ SHEAR WALL SHEATHING FOR A SMOOTH AND FLUSH FINISH. FULL EXTENT OF WALL LINE TO AVOID ANY STEPS IN FINISH.
12. ALL SURFACE MOUNTED CONDUIT TO BE PAINTED TO MATCH INTERIOR WALL COLOR.
14. SEE SHEET A-102 FOR WALL TYPE TAGS.
15. SEE FF&E PLAN FOR FURNITURE AND EQUIPMENT NOT SHOWN.

CASEWORK NOTES

1. ALL BASE CABINETS TO BE 24" DEEP U.N.O.
2. ALL UPPER CABINETS TO BE 14" DEEP U.N.O.
3. ALL UPPER & BASE CABINETS TO EXTEND INTO CORNERS TO AVOID UNUSABLE SPACE.
4. PROVIDE PULL-OUT ADJUSTABLE SHELVING AT ALL BASE CABINETS U.N.O.
5. REFER TO DETAILS FOR ALL BASE CABINET ANCHORAGE.
6. REFER TO DETAILS FOR SOLID SURFACE COUNTERTOPS.
7. REFER TO DETAILS FOR TRANSITION OF BASE AT CASEWORK LOCATIONS.
8. CONTRACTOR TO VERIFY ALL EQUIPMENT SIZES ADJACENT TO CASEWORK PRIOR TO FABRICATION OF CASEWORK
9. FOR LOCKABLE CABINETS, REFER TO SPECIFICATIONS FOR KEYING SCHEDULE

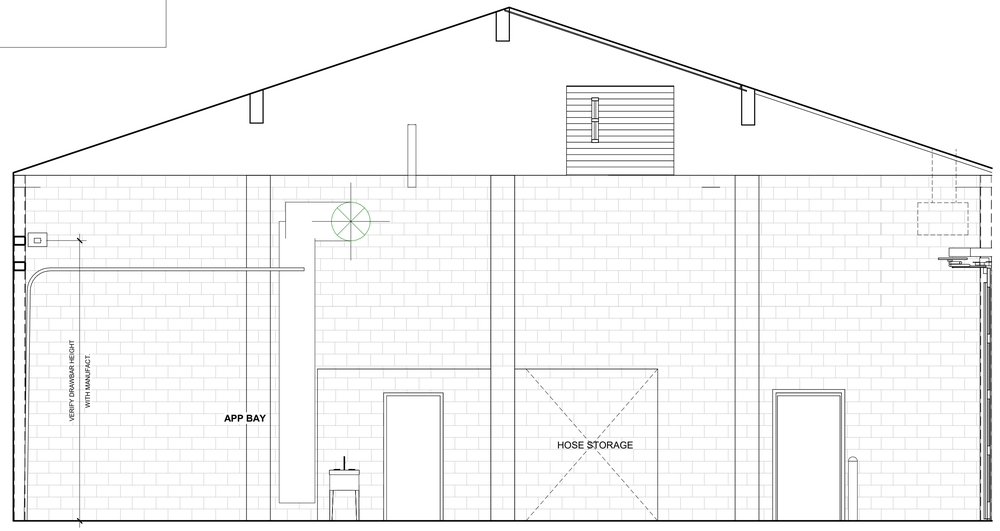
KEYNOTES

08 3323.B	OVERHEAD COILING DOOR DRAWBAR
23 0000.B	MECHANICAL EQUIPMENT. REFER TO MECHANICAL
26 0000.G	ELECTRICAL CORD DROP, REFER TO ELECTRICAL



1W APP BAY WEST

A-101 | A-419 SCALE: 1/4" = 1'-0"

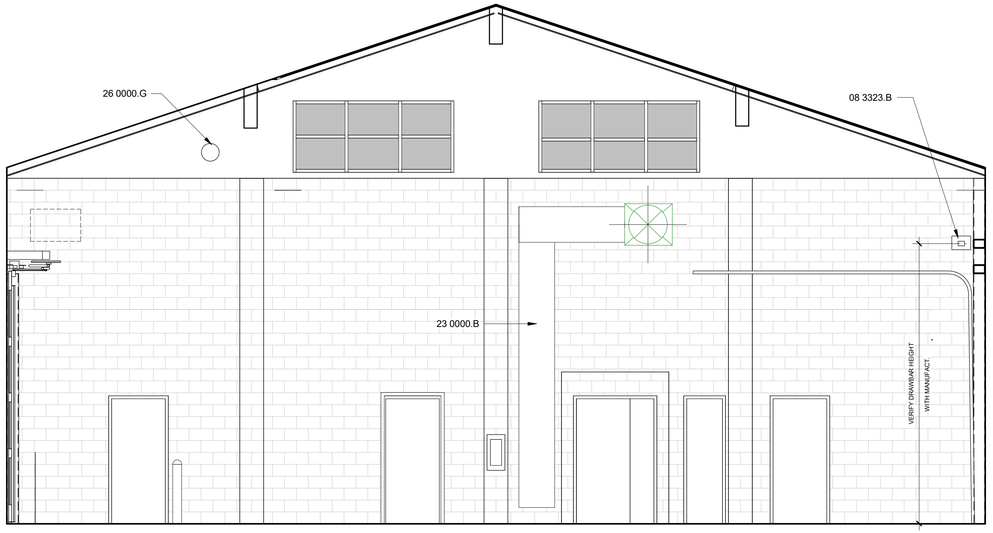


1N APP BAY NORTH

A-101 | A-419 SCALE: 1/4" = 1'-0"

1E APP BAY EAST

A-101 | A-419 SCALE: 1/4" = 1'-0"



1S APP BAY SOUTH

A-101 | A-419 SCALE: 1/4" = 1'-0"

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMISSION OR DISTRIBUTION OF THESE DOCUMENTS TO MEET OFFICIAL REGULATORY REQUIREMENTS OR FOR OTHER PURPOSES IN CONNECTION WITH THE PROJECT IS NOT TO BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

INTERIOR ELEVATIONS

NO.	REVISION	DATE

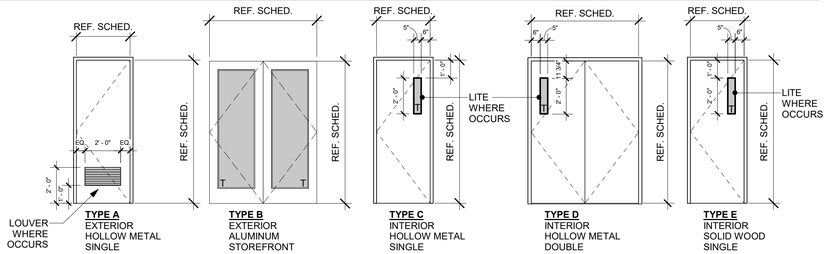
PROJECT MANAGER
MLS
DRAWN BY
CHECKED BY
CW
DATE
MAY 4, 2026
PROJECT NUMBER
2471-01-CI21
SHEET
A-419

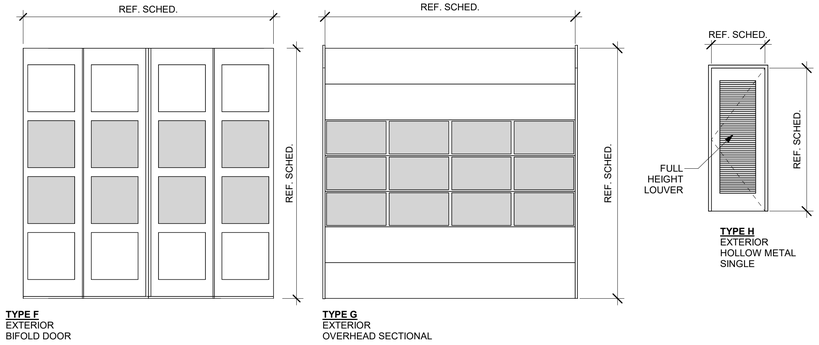
BID DOCUMENTS

County of Madera – CDD Building and Fire Safety
Plans Approved Under the 2022 California Building Codes and Ordinances and valid without signature
Date: 05/04/2026

4/30/2026 3:48:59 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt

DOOR TYPES





DOOR SCHEDULE

NO.	TYPE	SIZE WIDTH	SIZE HEIGHT	DETAIL HEAD	DETAIL JAMB	DETAIL SILL	Fire Rating	REMARKS
101A	G	14' - 0"	14' - 0"	12 / A-921	13 / A-921	14 / A-921		
101B	G	14' - 0"	14' - 0"	12 / A-921	13 / A-921	14 / A-921		
101C	G	14' - 0"	14' - 0"	12 / A-921	13 / A-921	14 / A-921		
101D	O	14' - 0"	14' - 0"	21 / A-921	22 / A-921	23 / A-921		
101E	O	14' - 0"	14' - 0"	21 / A-921	22 / A-921	23 / A-921		
101F	O	14' - 0"	14' - 0"	21 / A-921	22 / A-921	23 / A-921		
103A	C	3' - 0"	7' - 0"	*	*	*		2,3, 13
103B	H	4' - 0"	8' - 0"	*	*	*		1, 7
104A	H	4' - 0"	8' - 0"	*	*	*		1, 7
105A	C	3' - 0"	7' - 0"	*	*	*		2,3, 13
105B	D	4' - 4"	7' - 0"	*	*	*		UNEVEN DOOR LEAVES, (2 - VISION PANEL TO BE IN 36" WIDE LEAF ONLY), 3 ON ACTIVE LEAF. 13
105C	C	3' - 0"	7' - 0"	*	*	*		2. 13
105D	C	2' - 0"	7' - 0"	*	*	*		13
106A	A	3' - 0"	8' - 0"	*	*	*		2,3, 7
107A	C	3' - 0"	7' - 0"	*	*	*		6,3, 11
108A	C	3' - 0"	7' - 0"	*	*	*	45 MIN.	2,3,4,14,16, 17
108B	C	3' - 0"	7' - 0"	*	*	*		2,3,4,14
109A	C	3' - 0"	7' - 0"	*	*	*		2, 3, 13
110A	C	3' - 6"	7' - 0"	*	*	*		3, 13
111A	E	3' - 0"	7' - 0"	*	*	*		13, 15
111B	E	3' - 0"	7' - 0"					7
112A	E	3' - 0"	7' - 0"	*	*	*		2, 12
113A	E	3' - 0"	7' - 0"	*	*	*		5, 11
114A	E	3' - 0"	7' - 0"	*	*	*		2,3, 7
115A	B	3' - 0"	8' - 0"					4,7,9,14
116A	E	3' - 0"	7' - 0"	*	*	*		2 WITH ONE WAY GLAZING, 3,7
117A	E	3' - 0"	7' - 0"	*	*	*		3, 12
117B	A	3' - 0"	8' - 0"	*	*	*		3, 7
118A	E	3' - 0"	7' - 0"	*	*	*		11
119A	E	3' - 0"	7' - 0"	*	*	*		7
121A	B	6' - 0"	8' - 0"	43 / A-909	33 / A-920	22/ A-920		7
123A	E	3' - 0"	7' - 0"	*	*	*		13
124B	E	3' - 0"	7' - 0"	*	*	*	20 MIN.	3, 8, 11
125A	E	3' - 0"	7' - 0"	*	*	*	20 MIN.	3, 8, 12
126A	E	3' - 0"	7' - 0"	*	*	*	20 MIN.	3, 8, 13
127A	E	3' - 0"	7' - 0"	*	*	*	20 MIN.	3, 8, 13
128A	E	3' - 0"	7' - 0"	*	*	*		6,3, 11
129A	E	3' - 0"	7' - 0"	*	*	*	20 MIN.	3, 8, 11
130A	E	3' - 0"	7' - 0"	*	*	*	20 MIN.	3, 8, 13
131A	E	3' - 0"	7' - 0"	*	*	*		6, 3, 11
132A	E	3' - 0"	7' - 0"	*	*	*	20 MIN.	3, 8, 13
134A	E	3' - 0"	7' - 0"	*	*	*		1, 4, 13, 15
134B	B	6' - 0"	8' - 0"	43 / A-909	33 / A-920	22/ A-920		4, 7

* UNLESS OTHERWISE NOTED, REFER TO DOOR DETAILS:
EXTERIOR DOOR @ WOOD WALL: 42 / A-920
INTERIOR DOOR: 53 / A-920
EXTERIOR DOOR @ CMU WALL: 52 / A-920
EXTERIOR STOREFRONT DOOR: 22 / A-920

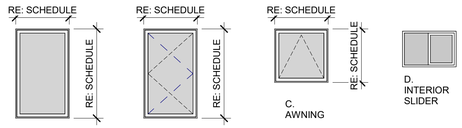
DOOR GENERAL NOTES

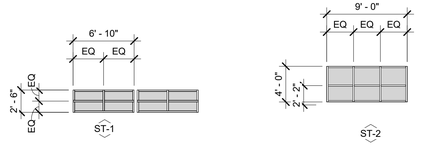
A. VERIFY ROUGH OPENING SIZE WITH DOOR MANUFACTURER SPECIFICATIONS PRIOR TO CONSTRUCTION.
B. CONTRACTOR TO VERIFY ACTUAL DOOR SIZE TO FIT OPENING PRIOR TO FABRICATION OF DOOR AND FINISH OPENING.
C. ALL DOOR HARDWARE TO HAVE LEVER HANDLES SEE SPECS FOR HARDWARE GROUPS. REFER TO DETAIL 31 / A-902
D. SEE SPECS FOR SIGN SCHEDULE.
E. CONTRACTOR TO VERIFY ALL THRESHOLDS COMPLY WITH DETAIL: 13 / A-902
F. PROVIDE KICKPLATES AT DOORS. REFER TO DETAIL: 21 / A-902
G. ALL GLAZING IN DOORS TO BE TEMPERED

DOOR REMARKS

1. LOUVER.
2. VISION PANEL
3. SELF CLOSER
4. EXIT DOOR-SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF KEY, TOOL, OR SPECIAL KNOWLEDGE OR EFFORT. (PER 2019 CBC 1010.1.9)
5. RESTROOM & ACCESSIBILITY SIGNAGE.
6. RESTROOM SIGNAGE.
7. ACCESS CONTROL KEYPAD
8. FIRE-RATED DOOR ASSEMBLY W/ SMOKE SEAL. ANY VISION PANELS / LITES TO RECEIVE FIRE-RATED GLAZING
9. ACCESSIBLE BUILDING ENTRY SIGNAGE, INTERNATIONAL SYMBOL OF ACCESSIBILITY 5"X5"
10 PROVIDE A READILY VISIBLE DURABLE SIGN ON THE EGRESS SIDE ON OR ADJACENT TO THE DOOR STATING, "THIS DOOR TO REMAIN UNLOCKED WHEN THE SPACE IS OCCUPIED." THE SIGN SHALL BE IN LETTERS 1 INCH HIGH ON A CONTRASTING BACKGROUND. (2019 CBC 1010.1.9.4)
11 PRIVACY LOCK WITH PRIVACY INDICATOR
12 OFFICE LOCK - ND50
13 PASSAGE LATCH
14 PANIC PUSH BAR
15 HOLD OPEN SELF CLOSER
16 FIRE EXIT HARDWARE
17 CLASSROOM LOCK

WINDOW AND STOREFRONT TYPES





REFER TO EXTERIOR ELEVATIONS FOR SECTIONS THROUGH STOREFRONT WINDOWS

UNLESS OTHERWISE NOTED, REFER TO WINDOW DETAILS: 12 / A-920, 13 / A-920, 14 / A-920

WINDOW SCHEDULE

NO.	TYPE	SIZE WIDTH	SIZE HEIGHT	HEAD HEIGHT	Sill Height	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	REMARKS
101	B	3' - 0"	5' - 0"	8' - 0"	3' - 0"				
101A	A	3' - 0"	2' - 0"	10' - 0"	8' - 0"				
102	B	3' - 0"	5' - 0"	8' - 0"	3' - 0"				
102A	A	3' - 0"	2' - 0"	10' - 0"	8' - 0"				
103	A	3' - 0"	2' - 0"	8' - 0"	6' - 0"				
103A	A	3' - 0"	2' - 0"	10' - 0"	8' - 0"				
104	A	3' - 0"	2' - 0"	10' - 0"	8' - 0"				
105	A	3' - 0"	2' - 0"	10' - 0"	8' - 0"				
106	A	3' - 0"	2' - 0"	10' - 0"	8' - 0"				
107	C	3' - 0"	2' - 0"	8' - 0"	6' - 0"				
108	C	3' - 0"	2' - 0"	8' - 0"	6' - 0"				
109	B	3' - 0"	5' - 0"	8' - 0"	3' - 0"				1
110	B	3' - 0"	5' - 0"	8' - 0"	3' - 0"				1
111	B	3' - 0"	5' - 0"	8' - 0"	3' - 0"				1
112	C	3' - 0"	2' - 0"	8' - 0"	6' - 0"				2
113	B	3' - 0"	5' - 0"	8' - 0"	3' - 0"				
113A	A	3' - 0"	2' - 0"	10' - 0"	8' - 0"				
114	B	3' - 0"	5' - 0"	8' - 0"	3' - 0"				
114A	A	3' - 0"	2' - 0"	10' - 0"	8' - 0"				
115	B	3' - 0"	5' - 0"	8' - 0"	3' - 0"				
115A	A	3' - 0"	2' - 0"	10' - 0"	8' - 0"				
116	B	3' - 0"	5' - 0"	8' - 0"	3' - 0"				
116A	A	3' - 0"	2' - 0"	10' - 0"	8' - 0"				
117	B	3' - 0"	5' - 0"	8' - 0"	3' - 0"				
117A	A	3' - 0"	2' - 0"	10' - 0"	8' - 0"				
118	B	3' - 0"	5' - 0"	8' - 0"	3' - 0"				
118A	A	3' - 0"	2' - 0"	10' - 0"	8' - 0"				
122	B	3' - 0"	5' - 0"	8' - 0"	3' - 0"				1
123	B	3' - 0"	5' - 0"	8' - 0"	3' - 0"				1
124	C	3' - 0"	2' - 0"	8' - 0"	6' - 0"				2
125	B	3' - 0"	5' - 0"	8' - 0"	3' - 0"				1
126	B	3' - 0"	4' - 6"	8' - 0"	3' - 6"		23/A-920	24/A-920	
129	B	3' - 0"	5' - 0"	8' - 0"	3' - 0"				
129A	A	3' - 0"	2' - 0"	10' - 0"	8' - 0"				
130	A	3' - 0"	5' - 0"	8' - 0"	3' - 0"				
130A	A	3' - 0"	2' - 0"	10' - 0"	8' - 0"				
131	B	3' - 0"	5' - 0"	8' - 0"	3' - 0"				
131A	A	3' - 0"	2' - 0"	10' - 0"	8' - 0"				
132	B	3' - 0"	3' - 0"	7' - 0"	4' - 0"				
133	A	3' - 0"	3' - 0"	12' - 3"	9' - 3"				
134	A	3' - 0"	3' - 0"	17' - 6"	14' - 6"				
135	A	3' - 0"	2' - 8"	17' - 6"	14' - 10"				
136	A	3' - 0"	2' - 8"	17' - 6"	14' - 10"				
137	A	3' - 0"	2' - 8"	17' - 6"	14' - 10"				
138	A	3' - 0"	2' - 8"	17' - 6"	14' - 10"				
139	A	3' - 0"	2' - 8"	17' - 6"	14' - 10"				
140	A	3' - 0"	2' - 8"	17' - 6"	14' - 10"				
141	A	3' - 0"	2' - 0"	10' - 0"	8' - 0"				
142	B	3' - 0"	5' - 0"	8' - 0"	3' - 0"				
142A	A	3' - 0"	2' - 0"	10' - 0"	8' - 0"				
143	B	3' - 0"	5' - 0"	8' - 0"	3' - 0"				
143A	A	3' - 0"	2' - 0"	10' - 0"	8' - 0"				
144	B	3' - 0"	5' - 0"	8' - 0"	3' - 0"				
144A	A	3' - 0"	2' - 0"	10' - 0"	8' - 0"				
145	B	3' - 0"	5' - 0"	8' - 0"	3' - 0"				
145A	A	3' - 0"	2' - 0"	10' - 0"	8' - 0"				
146	A	4' - 0"	2' - 0"	10' - 0"	8' - 0"				
147	D	4' - 0"	5' - 0"	8' - 0"	3' - 0"	52/A-921	52/A-921	52/A-921	

WINDOW GENERAL NOTES

A CONTRACTOR TO VERIFY EXACT ROUGH OPENING SIZES PRIOR TO FABRICATION OF ROUGH OPENINGS.
B REFER TO FLOOR PLANS FOR LOCATION OF WINDOWS.
C REFER TO WINDOW TYPES FOR GLAZING.
D ALL GLAZING IS DOUBLE PANE UNLESS OTHERWISE NOTED.
E PROVIDE BLACKOUT SHADES AT ALL FIREFIGHTER DORM ROOMS.
F PROVIDE BI-PARTING VERTICAL BLINDS AT EXERCISE ROOM.

WINDOW REMARKS

1. MUST MEET EGRESS REQUIREMENTS PER CBC SECTION 1030.
2. OBSCURED GLASS

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. ANY RESTRICTIONS WITH RESPECT TO THE USE OF THESE PLANS SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

DOOR & WINDOW SCHEDULE

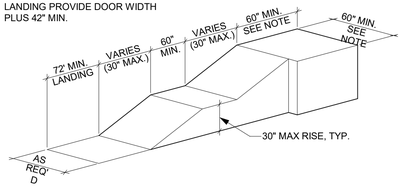
NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: MLS
DRAWN BY: CW
CHECKED BY: CW
DATE: APRIL 02, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: A-501

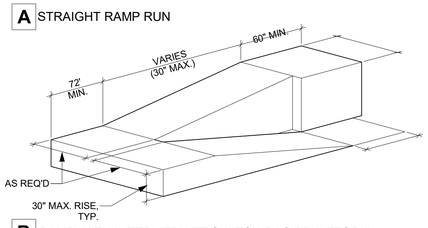
County of Madera – CFD Building and Fire Safety
Plans Approved Under the 2022 California Building
Date: 05/04/2026
Plans and Engineering calculations must be kept on job site at all times without signature

4/30/2026 9:29:03 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt

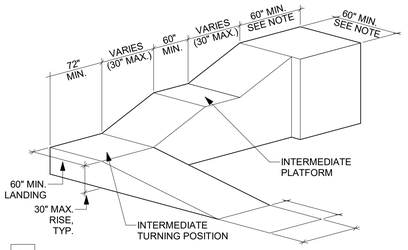
NOTE:
WHEN DOOR SWINGS ONTO LANDING PROVIDE DOOR WIDTH PLUS 42" MIN.



A STRAIGHT RAMP RUN

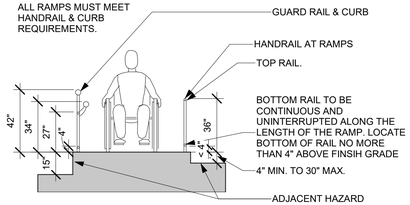


B RAMP WITH INTERMEDIATE SWITCH-BACK PLATFORM



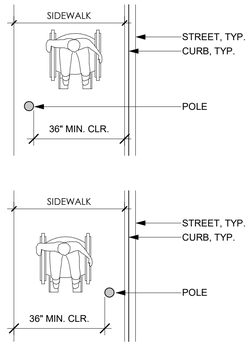
C RAMP WITH TURNING PLATFORM

NOTE:
ALL RAMPS MUST MEET HANDRAIL & CURB REQUIREMENTS.



D RAMP SECTION

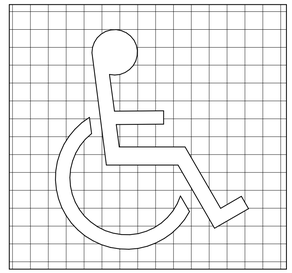
FOR ACC HANDRAIL SECTION
FOR ACC HANDRAIL DETAILS



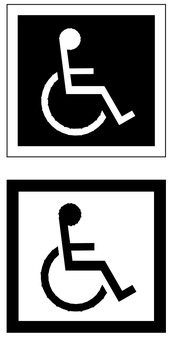
E SIDEWALK CURBS

42 ACCESSIBLE RAMP DETAILS

A-901 SCALE: 1/4" = 1'-0"



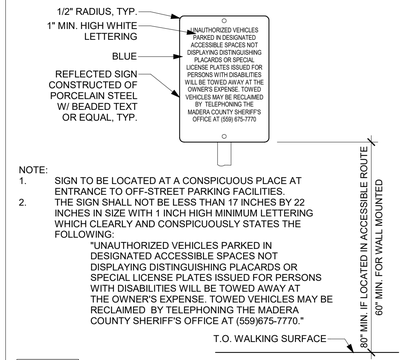
SYMBOL PROPORTIONS



DISPLAY CONDITIONS

22 INTL SYMBOL OF ACC.

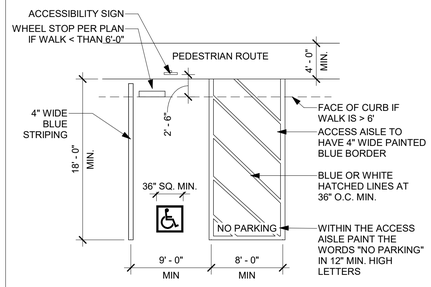
A-901 3" = 1'-0" REF 11B-703.7.2.1



NOTE:
1. SIGN TO BE LOCATED AT A CONSPICUOUS PLACE AT ENTRANCE TO OFF-STREET PARKING FACILITIES.
2. THE SIGN SHALL NOT BE LESS THAN 17 INCHES BY 22 INCHES IN SIZE WITH 1 INCH HIGH MINIMUM LETTERING WHICH CLEARLY AND CONSPICUOUSLY STATES THE FOLLOWING:
"UNAUTHORIZED VEHICLES PARKED IN DESIGNATED ACCESSIBLE SPACES NOT DISPLAYING DISTINGUISHING PLACARDS OR SPECIAL LICENSE PLATES ISSUED FOR PERSONS WITH DISABILITIES WILL BE TOWED AWAY AT THE OWNER'S EXPENSE. TOWED VEHICLES MAY BE RECLAIMED BY TELEPHONING THE MADERA COUNTY SHERIFF'S OFFICE AT (559)675-7770."

11 ACC. PARKING ADDITIONAL SIGNAGE

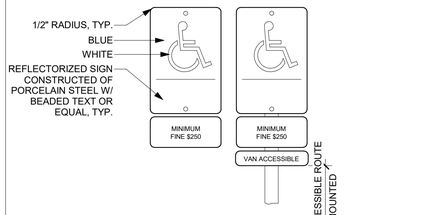
A-901 3/4" = 1'-0"



NOTE:
SURFACE OF THE PARKING SPACE AND ACCESS AISLE SHALL NOT EXCEED 1:50 GRADIENT (2%) IN ANY DIRECTION

12 PERPENDICULAR ACC. PARKING

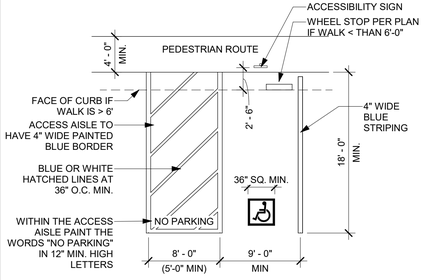
A-901 1/8" = 1'-0" REF 11B-502



NOTE:
1. SIGN TO BE CENTERED AT THE INTERIOR END OF PARKING SPACE.
2. AREA OF SIGN TO BE A MIN. OF 70 SQ. INCHES.
3. VAN ACCESSIBLE PARKING SPACES SHALL HAVE AN ADDITIONAL SIGN OR LANGUAGE STATING "VAN ACCESSIBLE" MOUNTED BELOW THE SYMOL OF ACCESSIBILITY.
4. AN ADDITIONAL SIGN OR LANGUAGE BELOW THE SYMBOL OF ACCESSIBILITY SHALL STATE "MINIMUM FINE $250".

13 ACC. PARKING STALL

A-901 3/4" = 1'-0"



NOTE:
SURFACE OF THE PARKING SPACE AND ACCESS AISLE SHALL NOT EXCEED 1:50 GRADIENT (2%) IN ANY DIRECTION

43 PERPENDICULAR ACC. PARKING

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

REF 11B-502

ASSISTIVE LISTENING SYSTEMS AVAILABLE

PERMANENT SIGNAGE TO BE WALL MOUNTED AS INDICATED ON SIGNAGE PLAN.

VISUAL CHARACTERS TO COMPLY WITH 11B-703.5. REFER TO DETAIL

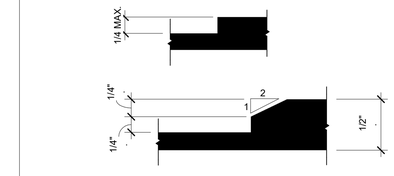
PICTOGRAM TO COMPLY WITH 11B-703.6 AND 11B-703.7.

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

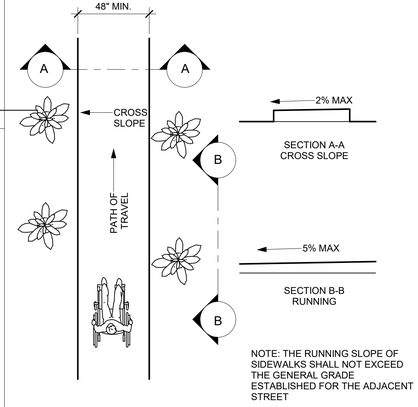
REF 11B-703.6

33 ASSISTIVE LISTENING SIGN

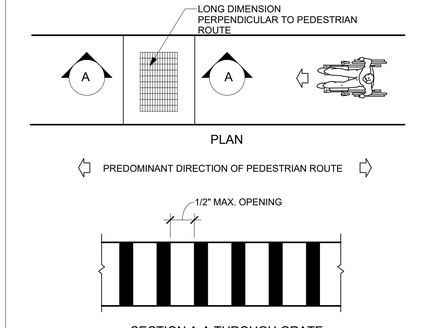
A-901 SCALE: 3" = 1'-0"



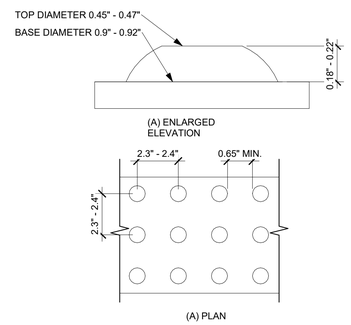
CHANGES IN LEVEL REF. 11B-303.2-3



ALLOWABLE SLOPE AND CROSS SLOPE

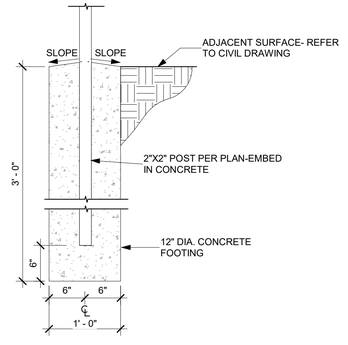


SECTION A-A THROUGH GRATE
GRATE ORIENTATION TO PATH OF TRAVEL



44 ACC. TRUNCATED DOMES

A-901 3" = 1'-0" REF 11B-705.1



34 SIGN POST

A-901 1" = 1'-0"

24 ACC. WALKS AND SIDEWALKS

A-901 1/4" = 1'-0" REF. 11B-402

14 PATH OF TRAVEL-GRATES

A-901 1/4" = 1'-0" REF 11B-302.3

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C 31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

ACCESSIBILITY DETAILS

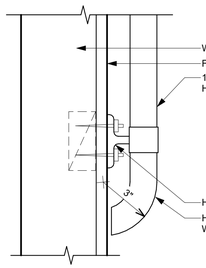
NO.	REVISION	DATE

PROJECT MANAGER MLS
DRAWN BY [illegible] CHECKED BY CW
DATE MAY 4, 2026
PROJECT NUMBER 2471-01-CI21
SHEET A-901

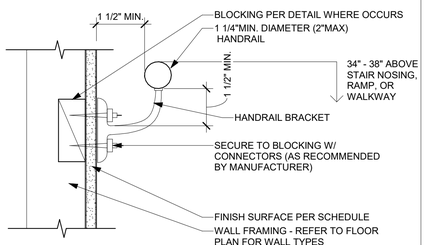
BID DOCUMENTS

County of Madera – CFD Building and Fire Safety
Plans Approved Under the 2022 California Building Codes and Ordinances, not valid without signature
Date: 05/04/2026

4/30/2026 3:49:00 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt



ACCESSIBLE HANDRAIL END



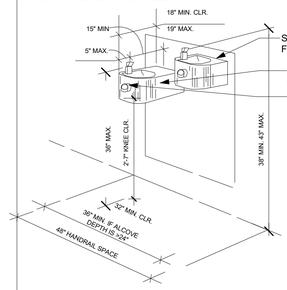
NOTE:
1) HANDRAIL TO HAVE SMOOTH SURFACE WITH NO SHARP CORNERS
2) HANDRAILS TO ACCOMODATE 50LBS/FT LATERAL LOAD
3) WALL MOUNTED HANDRAILS SHALL RETURN TO WALL AT ENDS

52 HANDRAIL ATTACHMENT AT WALL

A-902 SCALE: 3" = 1'-0"

REF 11B-505

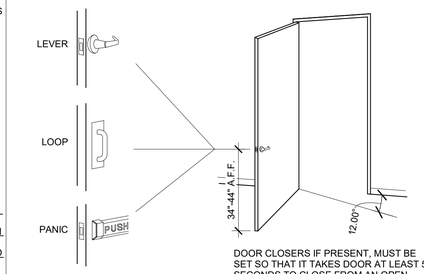
THE SPOUT SHALL PROVIDE A FLOW OF WATER 2" HIGH MIN. AND SHALL BE LOCATED 5" MAX. FROM THE FRONT OF THE UNIT. THE ANGLE OF THE WATER STREAM SHALL BE MEASURED HORIZONTALLY RELATIVE TO THE FRONT FACE OF THE UNIT. WHERE SPOUTS ARE LOCATED LESS THAN 2 INCHES FROM THE FRONT OF THE UNIT, THE ANGLE OF THE WATER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



41 HI-LO DRINKING FOUNTAIN

A-101 | A-902 3" = 1'-0"

REF 11B 602



ACCEPTABLE DOOR HARDWARE AND MOUNTING HEIGHTS

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

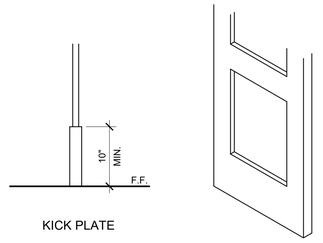
DOOR CLOSERS

THE FORCE TO OPEN DOOR SHALL NOT EXCEED 5 LBS. TYPICAL @ INTERIOR

31 ACC. DOOR REQUIREMENTS

A-902 1" = 1'-0"

REF 11B-404.2



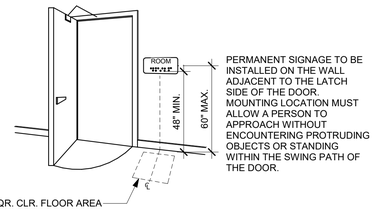
KICK PLATE

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.

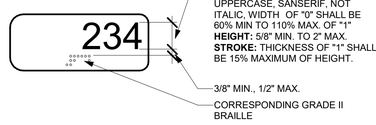
21 KICK PLATE AT DOORS

A-902 1" = 1'-0"

REF 11B-404.2.10



PERMANENT SIGNAGE TO BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. MOUNTING LOCATION MUST ALLOW A PERSON TO APPROACH WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING PATH OF THE DOOR.



RAISED CHARACTERS:
DEPTH: RAISED 1/32" MIN. ABOVE BACKGROUND.CHARACTERS: UPPERCASE, SANSERIF, NOT ITALIC, WIDTH OF "0" SHALL BE 60% MIN TO 110% MAX. OF "1"
HEIGHT: 5/8" MIN. TO 2" MAX.
STROKE: THICKNESS OF "1" SHALL BE 15% MAXIMUM OF HEIGHT.

CHARACTER SPACING:

18

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

RECTANGULAR

74

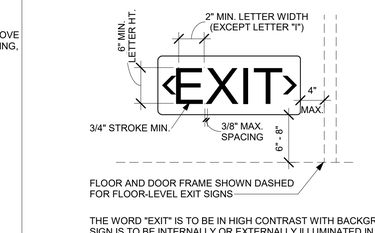
1/16" MIN. TO 4 TIMES STROKE WIDTH MAX.

NON RECTANGULAR

12 ROOM IDENTIFICATION SIGNAGE

A-902 SCALE: 3" = 1'-0"

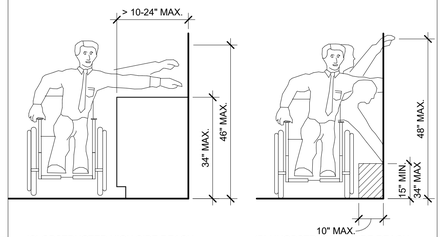
REF 11B-703



THE WORD "EXIT" IS TO BE IN HIGH CONTRAST WITH BACKGROUND. SIGN IS TO BE INTERNALLY OR EXTERNALLY ILLUMINATED IN COMPLIANCE WITH CBC SECTION 1011.1 (2013 CBC)

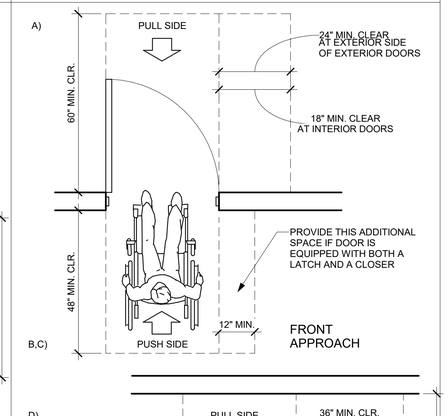
42 ILLUMINATED EXIT SIGN

A-902 1" = 1'-0"

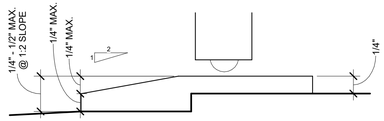


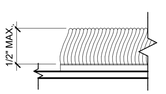
(C) OBSTRUCTED HIGH SIDE REACH

(B) UNOBSTRUCTED SIDE REACH



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





CARPET PILE HEIGHT
REF. 11B 302.2

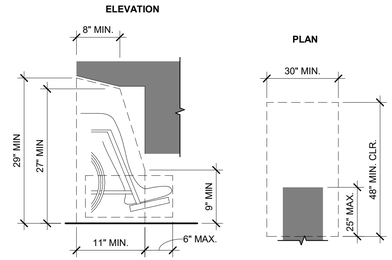
INTERIOR
MAT CARPETING MUST CONSIST OF:
-LEVEL LOOP
-TEXTURED LOOP
-LEVEL CUT PILE, OR
-LEVEL CUT/UNCUT PILE

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

13 CHANGES IN LEVEL

A-902 12" = 1'-0"

REF. 11B 303

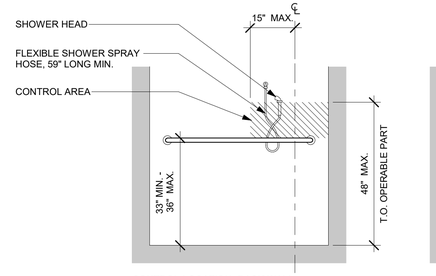


NOTE:
1. THE REQUIRED CLEAR FLOOR SPACE MAY NOT OVERLAP THE REQUIRED KNEE SPACE BY MORE THAN 19".
2. KNEE CLEARANCES AT TABLES, COUNTERS & WORKSURFACES IS AT LEAST 27" HIGH, 30" WIDE AND 19" DEEP.

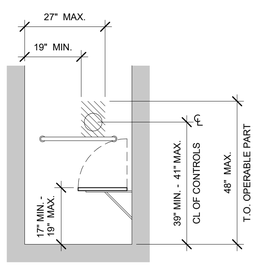
14 TOE & KNEE CLEARANCES

A-902 SCALE: 3" = 1'-0"

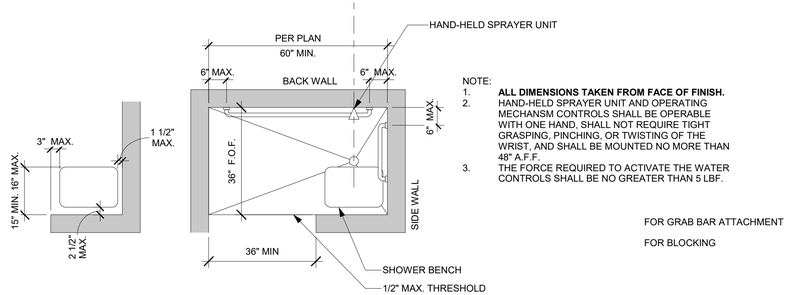
REF 11B-306



CONTROL LOCATION: BACK WALL
11B-608.5.3



CONTROL LOCATION: SIDE WALL
11B-608.5.3



NOTE:
1. **ALL DIMENSIONS TAKEN FROM FACE OF FINISH.**
2. HAND-HELD SPRAYER UNIT AND OPERATING MECHANSM CONTROLS SHALL BE OPERABLE WITH ONE HAND, SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST, AND SHALL BE MOUNTED NO MORE THAN 48" A.F.F.
3. THE FORCE REQUIRED TO ACTIVATE THE WATER CONTROLS SHALL BE NO GREATER THAN 5 LBF.

FOR GRAB BAR ATTACHMENT

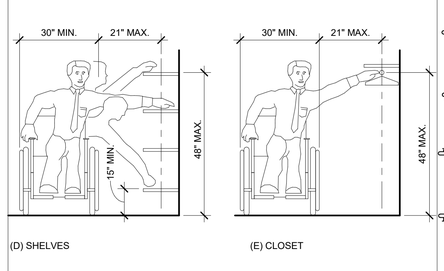
FOR BLOCKING

RECTANGULAR SHOWER SEAT
11B-610.3.1

ALTERNATE SHOWER CONFIGURATION
11B-608.2.3
11B-608.3.3

54 ACC. SHOWER

A-902 SCALE: 1/2" = 1'-0"

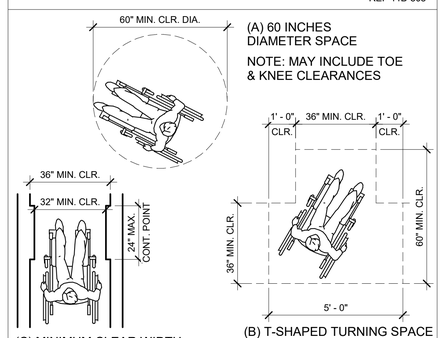


NOTE: THESE DIAGRAMS ILLUSTRATE THE SPECIFIC REQUIREMENTS OF THESE REGULATIONS AND IS INTENDED ONLY AS AN AID FOR BUILDING DESIGN AND CONSTRUCTION

33 ACC. REACH RANGES

A-902 SCALE: 1/2" = 1'-0"

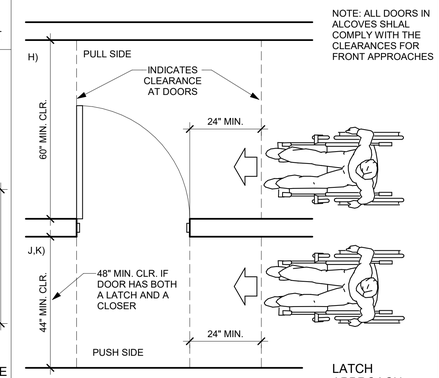
REF 11B-308



34 ACC. TURNING SPACE

A-902 SCALE: 3/8" = 1'-0"

REF 11B-304



24 CLEARANCES AT DOORS & GATES

A-902 1/2" = 1'-0"

REF 11B-404.2.4

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMISSION OR DISTRIBUTION OF THESE DOCUMENTS TO MEET OFFICIAL REGULATORY REQUIREMENTS OR FOR OTHER PURPOSES IN CONNECTION WITH THE PROJECT IS NOT INTENDED TO BE AND SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

ACCESSIBILITY DETAILS

NO.	REVISION	DATE

PROJECT MANAGER
MLS

DRAWN BY
APP

CHECKED BY
CW

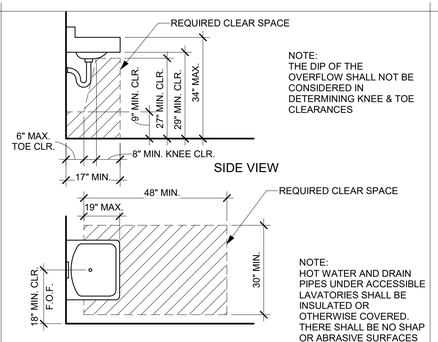
DATE
MAY 4 2026

PROJECT NUMBER
2471-01-CI21

SHEET
A-902

County of Madera – CFD Building and Fire Safety
Plans Approved Under this 2022 California Building Codes and Ordinances, not valid without signature
Date 05/04/2026

4/30/2026 3:49:01 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt

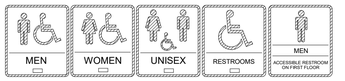


NOTE:
THE DIP OF THE OVERFLOW SHALL NOT BE CONSIDERED IN DETERMINING KNEE & TOE CLEARANCES

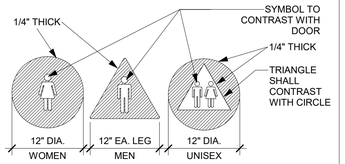
NOTE:
HOT WATER AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHAP OR ABRASIVE SURFACES UNDER LAVATORIES.

21 ACC. LAVATORIES

A-903 | 1/2" = 1'-0" | REF. 11B 606

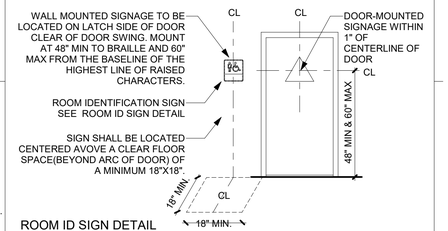


WALL-SIGNAGE (TYP.)

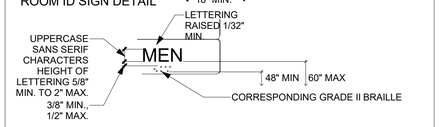


DOOR MOUNTED SIGNAGE (TYP.)

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



ROOM ID SIGN DETAIL

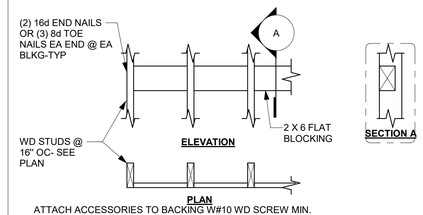


CHARACTER PROPORTIONS. CHARACTERS SHALL BE SELECTED FROM A FONT WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 55% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE UPPERCASE "I".

SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES MINIMUM BY 18" MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING.

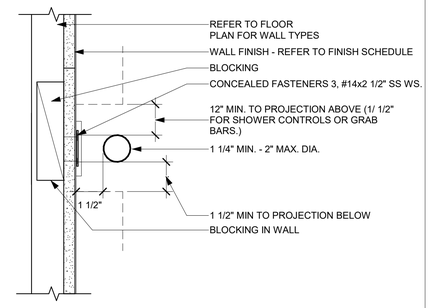
12 ACC. RESTROOM ID SYMBOLS

A-903 | 1" = 1'-0" | REF. 11B-703.7.2.6 | REF 11B-703.4.2



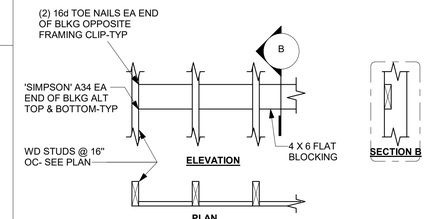
ATTACH ACCESSORIES TO BACKING W#10 WD SCREW MIN.
USE FOR: MIRRORS, FLAT SIGNS, TACK BOARDS, CHALKBOARDS, BULLETIN BOARDS, MARKER BOARDS, FRAMED ARTWORK.

TYPE A



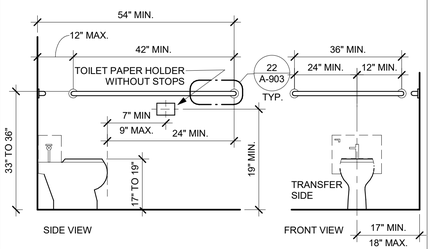
22 ACC. GRAB BAR ATTACHMENT

A-903 A-903 | 3" = 1'-0"



ATTACH ACCESSORIES TO BACKING W#12 WD SCREW MIN.
USE FOR: TOILET & BATH ACCESSORIES UNO, DOOR STOPS, DOOR HOLDERS, CABINETS, DISPLAY CABINETS, TOILET PARTITIONS UNO.

TYPE B

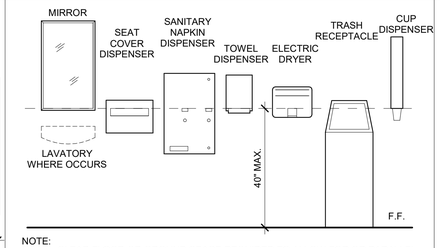


@ AMBULATORY ACCESSIBLE

NOTE:
1. ALL DIMENSIONS TAKEN FROM FACE OF FINISH.
2. WATER CLOSET FLUSH VALVE CONTROLS, OPERATING MECHANSM CONTROLS SHALL BE OPERABLE WITH ONE HAND, SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST, AND SHALL BE MOUNTED NO MORE THAN 44" A.F.F.
3. THE FORCE REQUIRED TO ACTIVATE THE WATER CLOSET AND URINAL FLUSH VALVE CONTROLS & FAUCET AND OPERATING MECHANISM CONTROLS SHALL BE NO GREATER THAN 5 LBF. ELECTRONIC OR AUTOMATIC FLUSHING CONTROLS ARE ACCEPTABLE AND PREFERABLE.

23 ACC. TOILETS

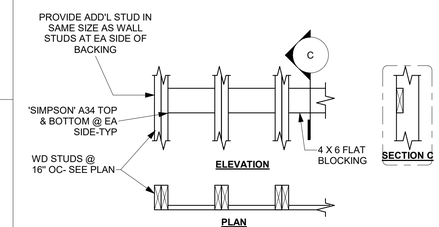
A-903 | 1/2" = 1'-0"



NOTE:
1. CLEAR FLOOR OR GROUND SPACE REQUIRED TO ALLOW FOR OR PARALLEL APPROACH TO ACCESSORIES.
2. ALL OPERABLE PARTS OF FIXTURES AND ACCESSORIES TO BE LOCATED 40" MAX. A.F.F..
3. CONTROLS AND OPERATING MECHANISMS MUST OPERATE WITH ONE HAND AND NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF WRIST.
4. MAX. 5 POUND FORCE TO OPERATE CONTROLS.
5. LOCATE COAT HOOKS AND SHELVING WITHIN APPROPRIATE REACH RANGE (48" MAX. ABOVE FLOOR.)
6. MIRRORS NOT LOCATED ABOVE LAVATORY TO HAVE BOTTOM EDGE OF REFLECTING SURFACE 35" MAX A.F.F.

13 ACC. RESTROOM ACCESSORIES

A-903 | 1/2" = 1'-0" | REF. 11B-603.3-.5



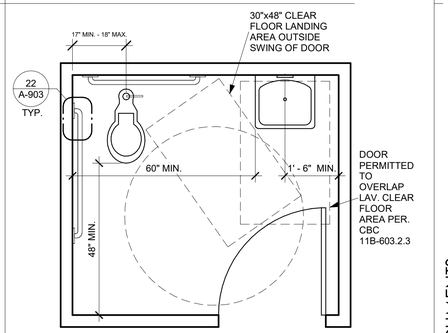
ATTACH ACCESSORIES TO BACKING W#14 OR 1/4" DIA WD SCREW MIN.
USE FOR: HANDRAILS, GRAB BARS, SHOWER SEATS, SHELF BRACKETS, COUNTERTOP BRACKETS, URINAL SCREENS, WATER HEATER STRAPS, SINK BRACKETS.

TYPE C

NOTES:
1. DO NOT CUT OR NOTCH STUDS TO INSTALL BACKING
2. VERIFY LENGTH, HEIGHT, QUANITY & LOCATION FO BACKING W/ARCH. DETAILS & ACCESSORY MANUFACTURER
3. EXTEND BACKING TO FIRST STUD PAST END OF ACCESSORY

34 TYP. WOOD STUD BLOCKING

A-903 | SCALE: 3/4" = 1'-0"



14 SINGLE ACCOMODATION TOILET

A-401 A-903 | 1/2" = 1'-0"

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SHOULD CONSTRUCTION BEGIN, USE OF THESE DRAWINGS SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C 31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

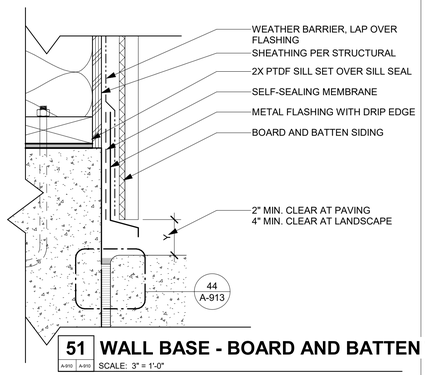
ACCESSIBILITY DETAILS

NO.	REVISION	DATE

PROJECT MANAGER: MLS
DRAWN BY: CW | CHECKED BY:
DATE: MAY 4 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: A-903

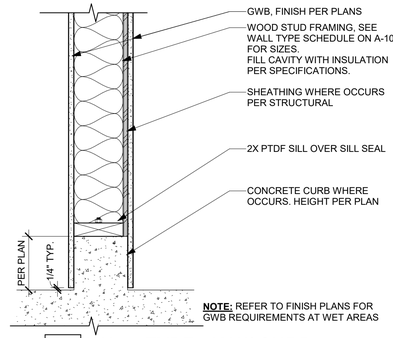
County of Madera – CBD Building and Fire Safety Division
This Approval Is Under the 2022 California Building Codes and Ordinances, not valid
Date: 05/04/2026

4/30/2026 3:49:02 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt



51 WALL BASE - BOARD AND BATTEN TYP

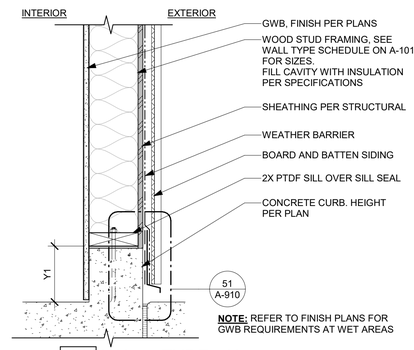
A-910 | A-910 SCALE: 3" = 1'-0"



NOTE: REFER TO FINISH PLANS FOR GWB REQUIREMENTS AT WET AREAS

31 WALL TYPE - K W/ CURB

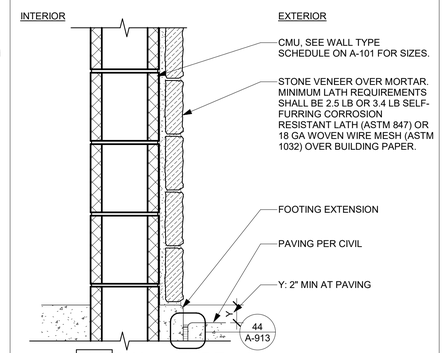
A-910 SCALE: 1 1/2" = 1'-0"



NOTE: REFER TO FINISH PLANS FOR GWB REQUIREMENTS AT WET AREAS

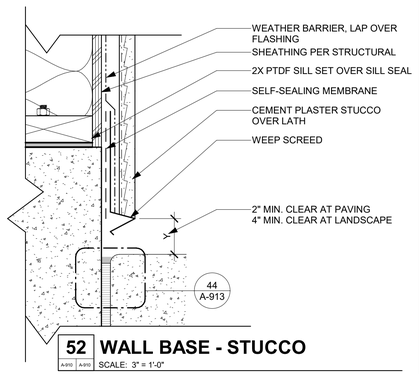
21 WALL TYPE - H

A-910 SCALE: 1 1/2" = 1'-0"



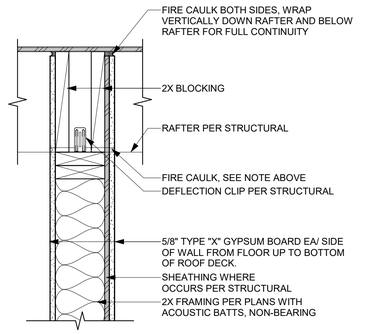
11 WALL TYPE - A

A-910 SCALE: 1 1/2" = 1'-0"



52 WALL BASE - STUCCO

A-910 | A-910 SCALE: 3" = 1'-0"



42 1 HR PART. @ ROOF - RAFTER - ⊥

A-910 SCALE: 1 1/2" = 1'-0"

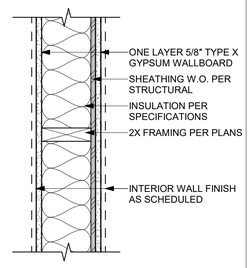
GA FILE NO. WP 3644	GENERIC	1 HOUR FIRE

GYPSUM WALLBOARD, WOOD STUDS, INSULATION

FIRE DESIGN:
ONE LAYER 5/8" TYPE X GYPSUM WALLBOARD APPLIED AT RIGHT ANGLES TO EACH SIDE OF 2 × 4 WOOD STUDS 16" O.C. WITH 2-1/4" TYPE S OR W SCREWS 12" O.C. 3-1/2" MINERAL FIBER INSULATION, NOMINAL 2.5 PCF, FRICTION FIT IN STUD CAVITY.

VERTICAL JOINTS STAGGERED 16" O.C., HORIZONTAL JOINTS STAGGERED 24" O.C., ON OPPOSITE SIDES.

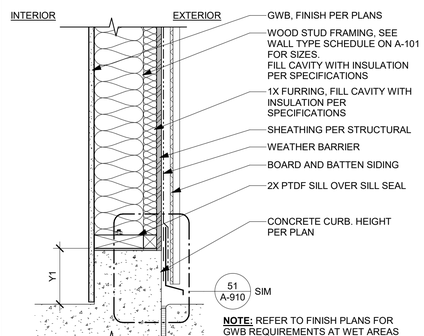
TESTED AT 2,578 LBS PER STUD OR 100 PERCENT OF DESIGN LOAD. **(LOAD-BEARING)**



THICKNESS: 4-3/4" (FIRE)
APPROX. WEIGHT: 7.5 PSF (FIRE)
ITS J20-06170.1, 4-00

32 WALL TYPE - L

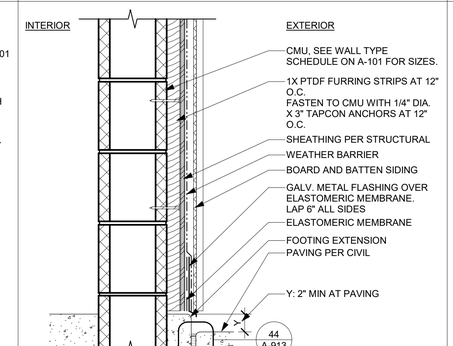
A-910 SCALE: 1 1/2" = 1'-0"



NOTE: REFER TO FINISH PLANS FOR GWB REQUIREMENTS AT WET AREAS

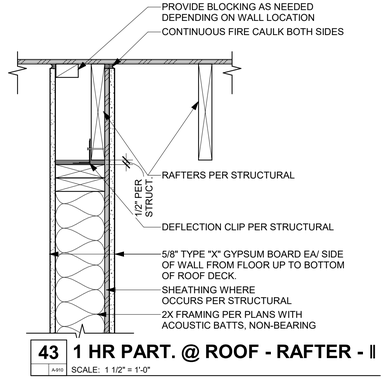
22 WALL TYPE - I

A-910 SCALE: 1 1/2" = 1'-0"



12 WALL TYPE - B

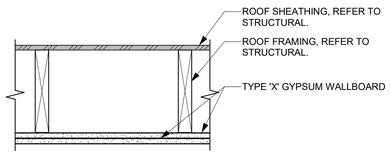
A-910 SCALE: 1 1/2" = 1'-0"



43 1 HR PART. @ ROOF - RAFTER - ∥

A-910 SCALE: 1 1/2" = 1'-0"

GA FILE NO. FC 5529	GENERIC	1 HOUR FIRE



GYPSUM WALLBOARD, WOOD STUDS, INSULATION

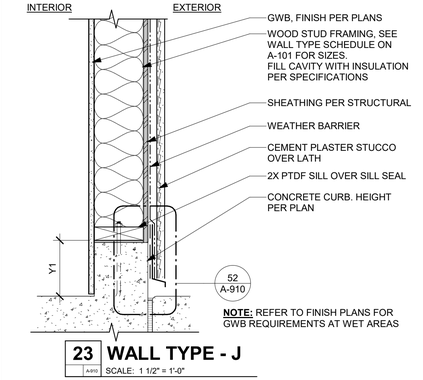
FIRE DESIGN:
BASE LAYER 5/8" TYPE X GYPSUM WALLBOARD ATTACHED AT RIGHT ANGLES TO 2X10 WOOD JOISTS 24" O.C. WITH 1-1/4" TYPE W OR S SCREWS 24" O.C.
FACE LAYER 5/8" TYPE X GYPSUM WALLBOARD OR GYPSUM VENEER BASE APPLIED AT RIGHT ANGLES TO JOISTS WITH 1-7/8" TYPE W OR S SCREWS 12" O.C. AT JOINTS AND INTERMEDIATE JOISTS AND 1-1/2" TYPE G SCREWS 12" O.C. PLACES 2" BACK ON EITHER SIDE OF END JOINTS. WOOD JOISTS SUPPORTING 1/2" PLYWOOD WITH EXTERIOR GLUE APPLIED AT RIGHT ANGLES TO JOISTS WITH 8D NAILS.

JOINTS OFFSET 24" FROM **BASE** LAYER JOINTS.

APPROX. CEILING WEIGHT: 5 PSF (FIRE)
FIRE TEST: FM FC 172, 02-25-72
ITS [illegible]

33 1-HR CEILING ASSEMBLY

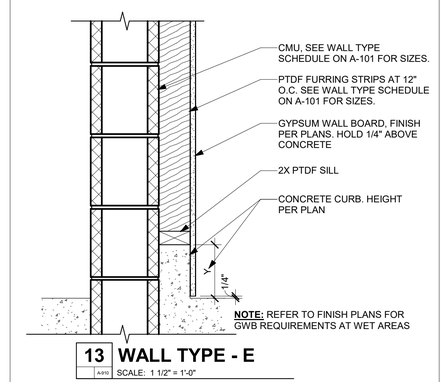
A-101 | A-910 SCALE: 1 1/2" = 1'-0"



NOTE: REFER TO FINISH PLANS FOR GWB REQUIREMENTS AT WET AREAS

23 WALL TYPE - J

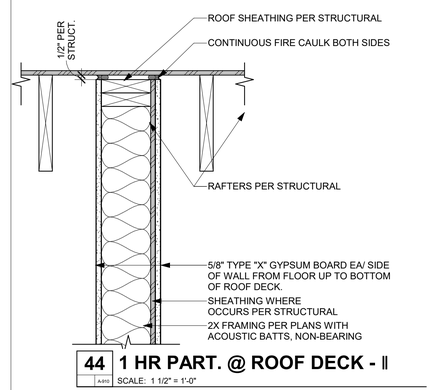
A-910 SCALE: 1 1/2" = 1'-0"



NOTE: REFER TO FINISH PLANS FOR GWB REQUIREMENTS AT WET AREAS

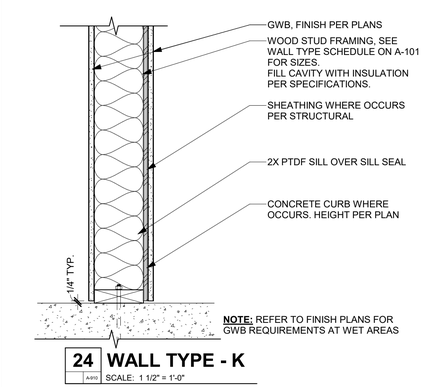
13 WALL TYPE - E

A-910 SCALE: 1 1/2" = 1'-0"



44 1 HR PART. @ ROOF DECK - ∥

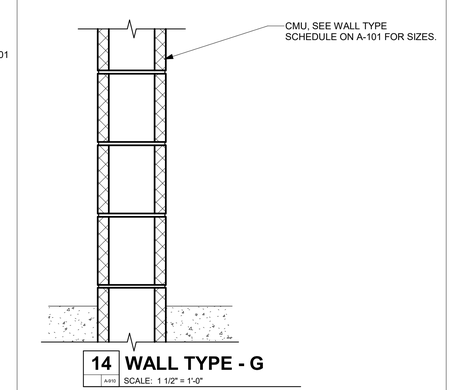
A-910 SCALE: 1 1/2" = 1'-0"



NOTE: REFER TO FINISH PLANS FOR GWB REQUIREMENTS AT WET AREAS

24 WALL TYPE - K

A-910 SCALE: 1 1/2" = 1'-0"



14 WALL TYPE - G

A-910 SCALE: 1 1/2" = 1'-0"

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMISSION OR DISTRIBUTION OF THESE DOCUMENTS TO OTHERS SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

ASSEMBLIES

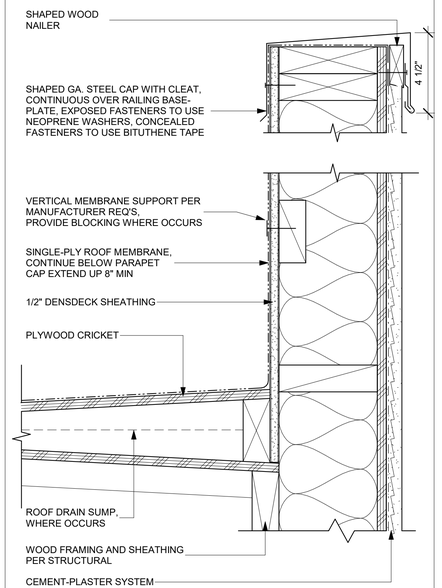
NO.	REVISION	DATE

PROJECT MANAGER
MLS
DRAWN BY
CW
CHECKED BY
MLS
DATE
MAY 4, 2026
PROJECT NUMBER
2471-01-CI21
SHEET
A-910

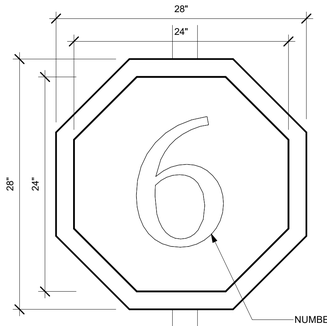
BID DOCUMENTS

County of Madera – CEO Building and Fire Safety
Plans Approved as Noted Under the 2022 California Building Codes and Ordinances, not valid without signature.
Date 05/04/2026

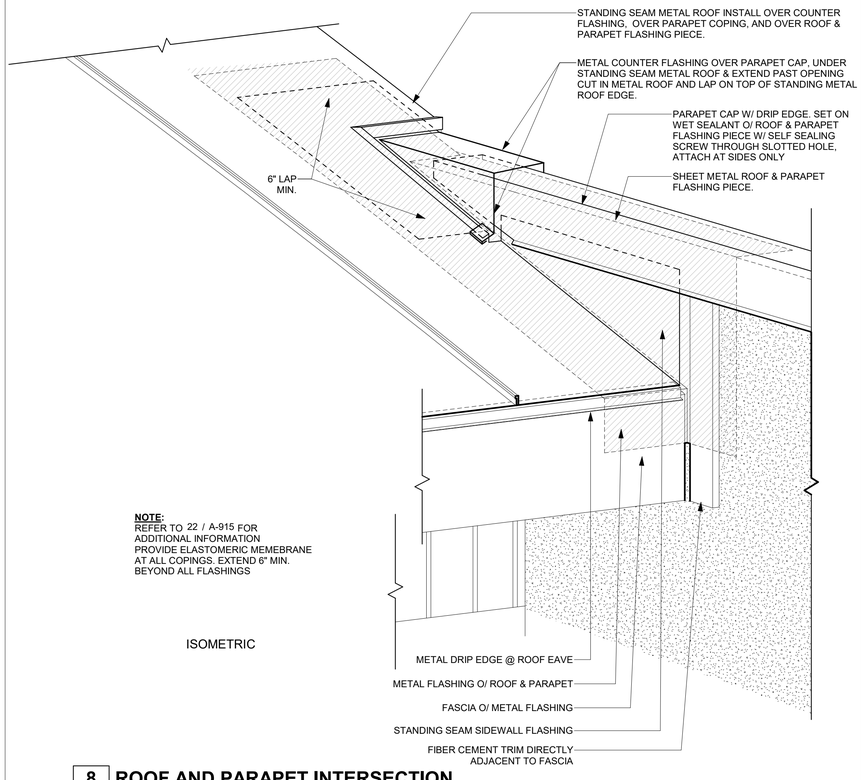
4/30/2026 3:49:03 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt



6 PARAPET WALL
A-111 | A-911 SCALE: 3" = 1'-0"



1 NUMBER SIGN
A-201 | A-911 SCALE: 1 1/2" = 1'-0"



8 ROOF AND PARAPET INTERSECTION
A-111 | A-911 SCALE: N.T.S.

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. ANY UNAUTHORIZED USE SHALL BE ILLEGAL AND SHALL NOT SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

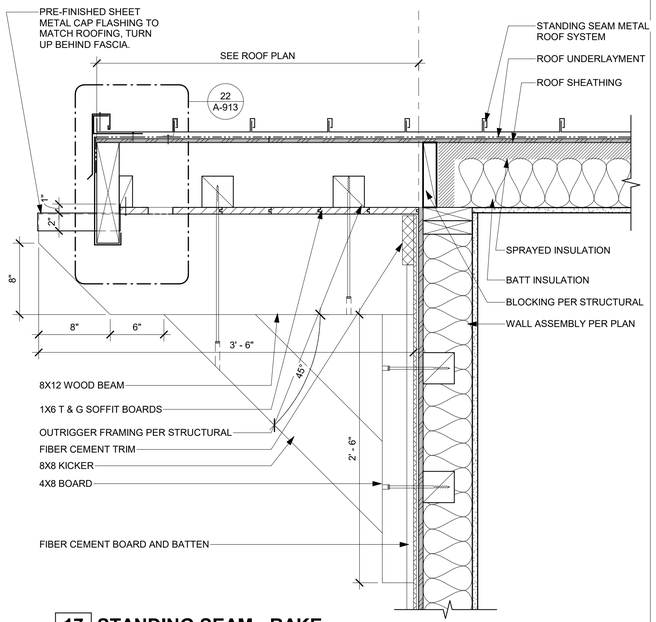
EXTERIOR DETAILS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER MLS
DRAWN BY **CHECKED BY** CW
DATE MAY 4, 2026
PROJECT NUMBER 2471-01-CI21
SHEET A-911

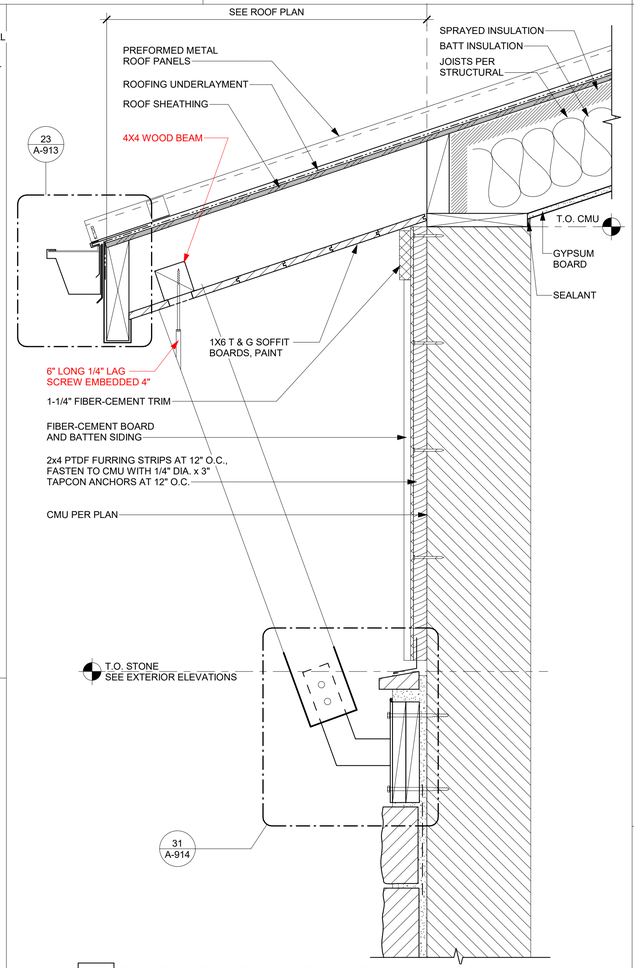
County of Madera – CFD Building and Fire Safety
Plans Approved under the 2022 California Building
Date: 05/04/2026
Plans and Ordinances, and valid without signature

4/30/2026 3:49:03 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt



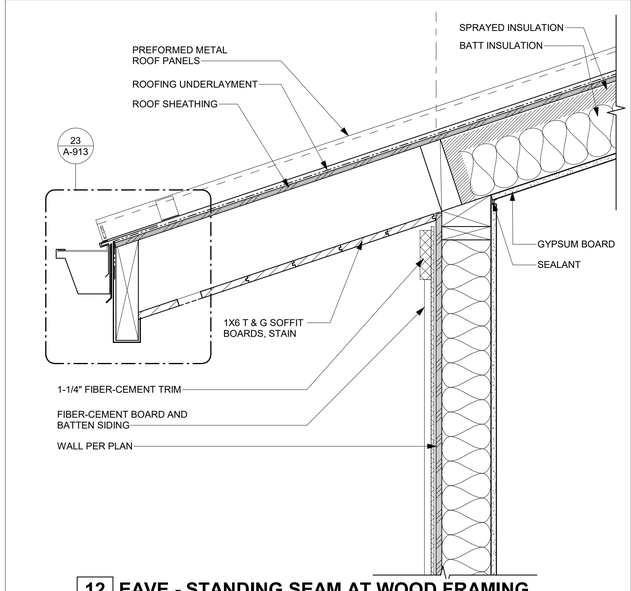
17 STANDING SEAM - RAKE

A-111 | A-912 SCALE: 1 1/2" = 1'-0"



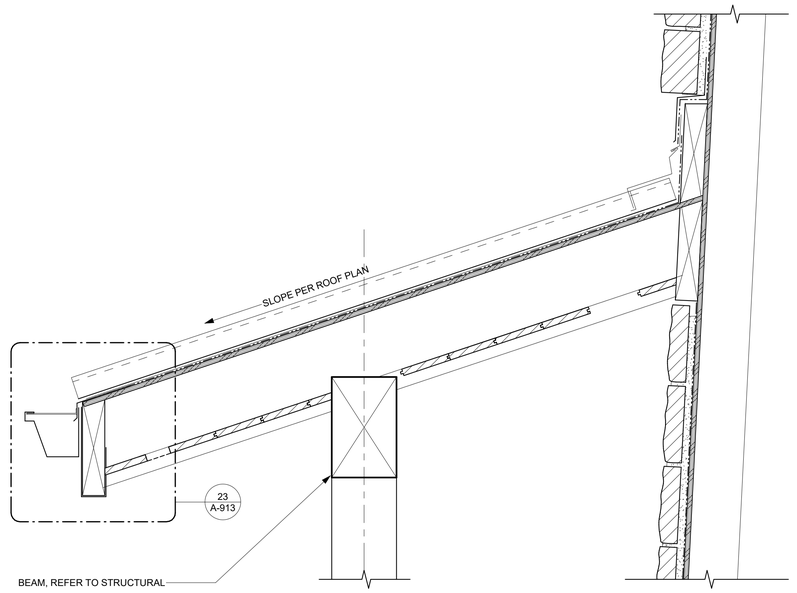
10 EAVE - STANDING SEAM AT CMU WALL

A-111 | A-912 SCALE: 1 1/2" = 1'-0"



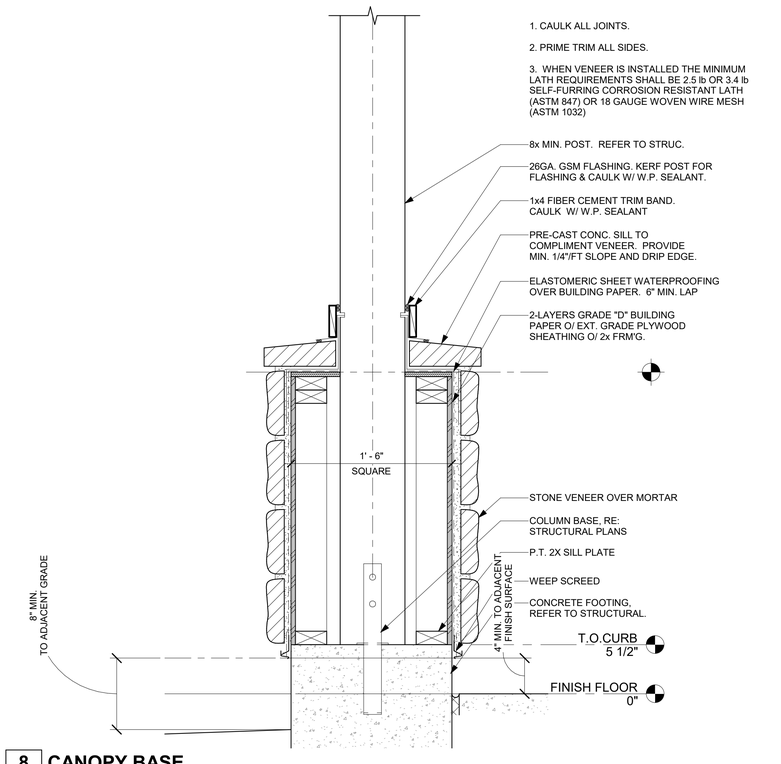
12 EAVE - STANDING SEAM AT WOOD FRAMING

A-111 | A-912 SCALE: 1 1/2" = 1'-0"



6 CANOPY SECTION

A-310 | A-912 SCALE: 1 1/2" = 1'-0"



8 CANOPY BASE

A-310 | A-912 SCALE: 1 1/2" = 1'-0"

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SHOULD CONSTRUCTION BEGIN ON THIS PROJECT, IT SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

BID DOCUMENTS

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

EXTERIOR DETAILS

NO.	REVISION	DATE

PROJECT MANAGER
MLS

DRAWN BY | CHECKED BY
CW

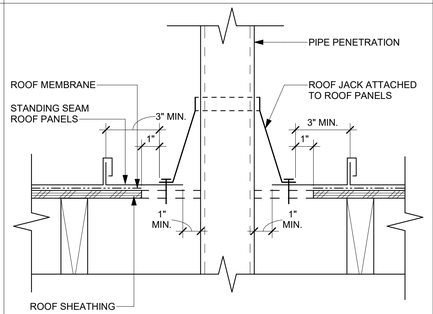
DATE
MAY 4 2026

PROJECT NUMBER
2471-01-CI21

SHEET
A-912

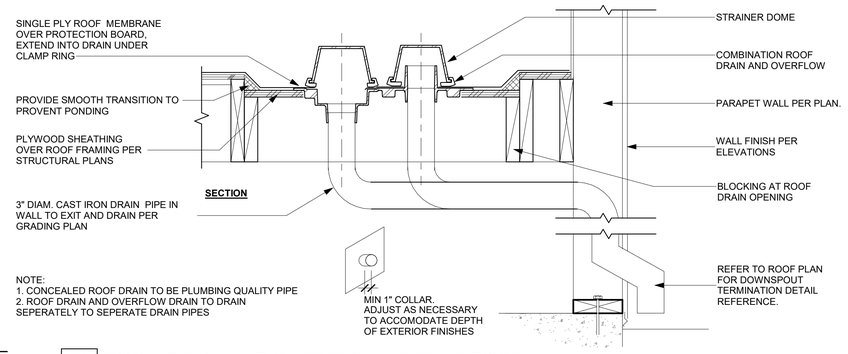
County of Madera – CEO Building and Fire Safety
Building Division Approved under the 2022 California Building Codes and Ordinances, not valid for Planning or Engineering review
Date 05/04/2026

4/30/2026 3:49:04 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt



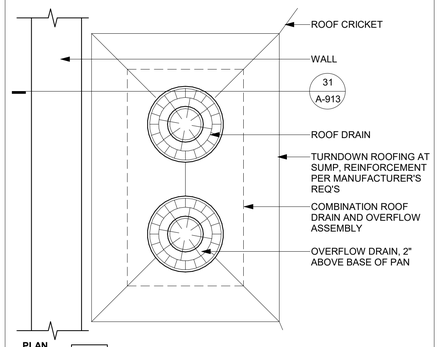
41 STANDING SEAM - PENETRATION

A111 A913 SCALE: 3" = 1'-0"



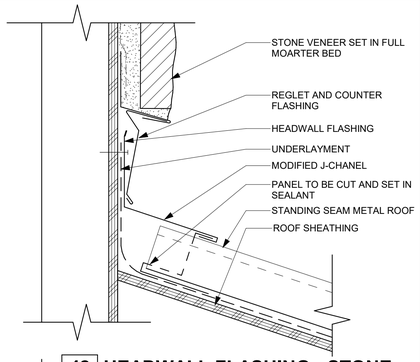
31 ROOF-DRAIN AND OVERFLOW AT FLAT ROOF

A913 A913 SCALE: 1 1/2" = 1'-0"



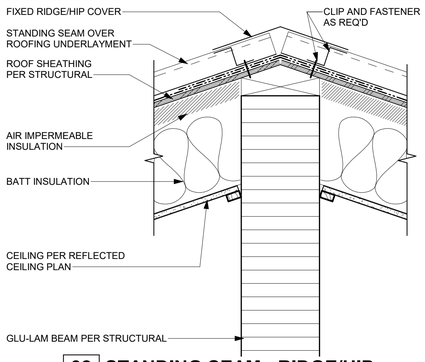
11 ROOF DRAIN AND OVERFLOW

A111 A913 SCALE: 1 1/2" = 1'-0"



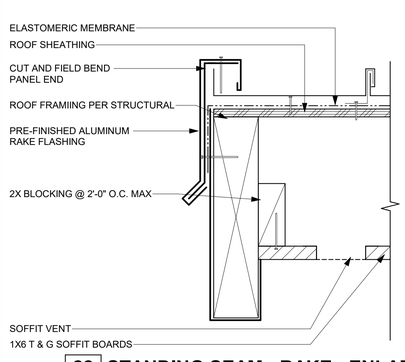
42 HEADWALL FLASHING - STONE

A201 A913 SCALE: 3" = 1'-0"



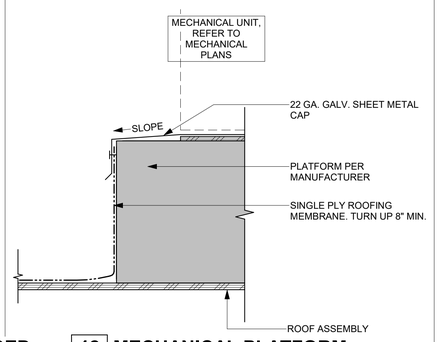
32 STANDING SEAM - RIDGE/HIP

A111 A913 SCALE: 1 1/2" = 1'-0"



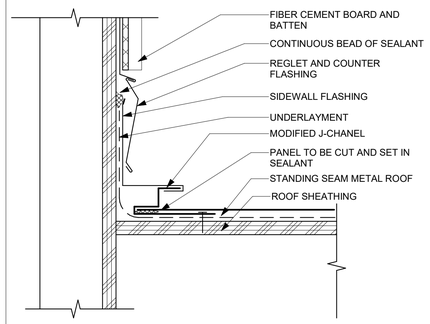
22 STANDING SEAM - RAKE - ENLARGED

A912 A913 SCALE: 3" = 1'-0"



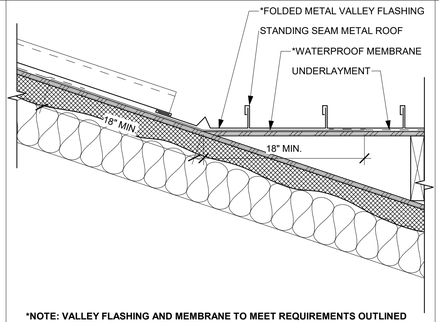
12 MECHANICAL PLATFORM

A111 A913 SCALE: 1 1/2" = 1'-0"



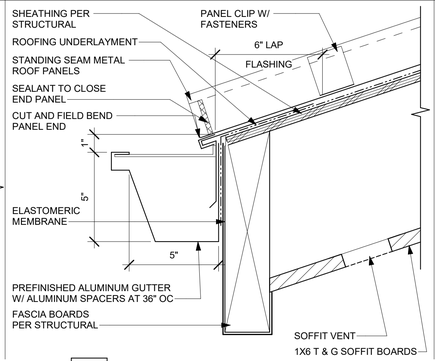
43 SIDEWALL PARALLEL TO SEAMS

A203 A913 SCALE: 3" = 1'-0"



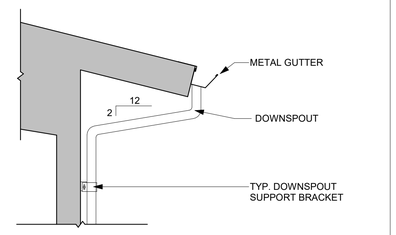
33 VALLEY @ CRICKET - STANDING SEAM

A111 A913 SCALE: 1 1/2" = 1'-0"



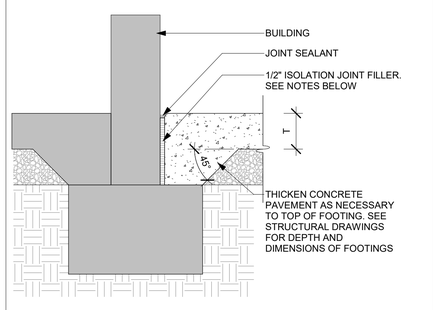
23 STANDING SEAM - EAVE - ENLARGED

A912 A913 SCALE: 3" = 1'-0"



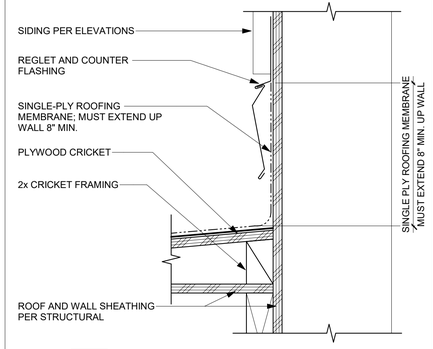
13 TYPICAL GUTTER TO DOWNSPOUT

A203 A913 SCALE: 1/2" = 1'-0"



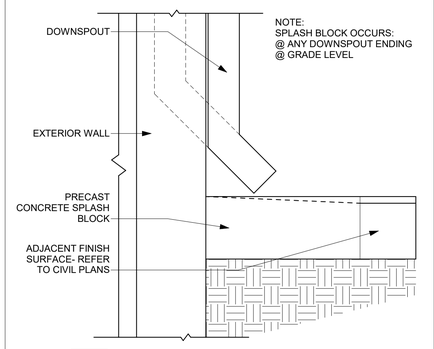
44 ISOLATION JOINT AT BUILDING

A910 A913 SCALE: 1 1/2" = 1'-0"



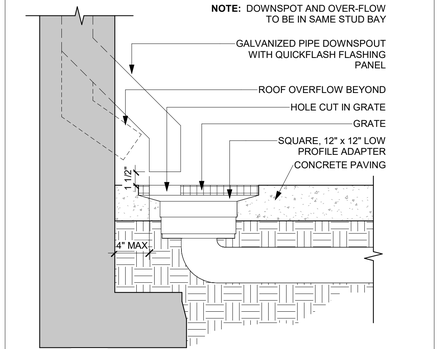
34 SINGLE-PLY ROOFING TO WALL

A111 A913 SCALE: 3" = 1'-0"



24 SPLASH BLOCK

A913 A913 SCALE: 1 1/2" = 1'-0"



14 DOWNSPOUT TO DRAIN FROM WALL

A203 A913 SCALE: 1 1/2" = 1'-0"

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SHOULD CONSTRUCTION COMMENCE, USE OF THESE PLANS SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

EXTERIOR DETAILS

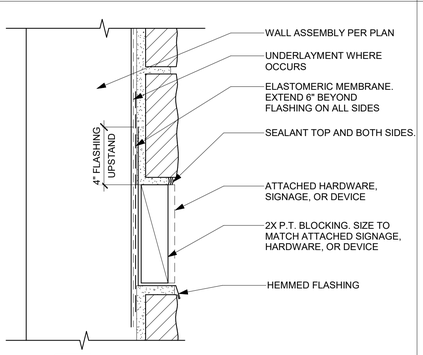
NO.	REVISION	DATE

PROJECT MANAGER
MLS
DRAWN BY
CW
CHECKED BY
MLS
DATE
MAY 4 2026
PROJECT NUMBER
2471-01-CI21
SHEET
A-913

BID DOCUMENTS

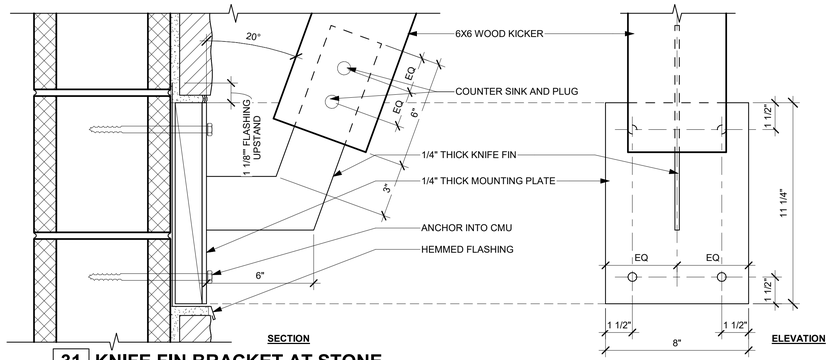
County of Madera – CEO Building and Fire Safety
Building Division
Plans Approved Under the 2022 California Building Codes and Ordinances, not valid unless signed and dated
Date: 05/04/2026

4/30/2026 3:49:05 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt



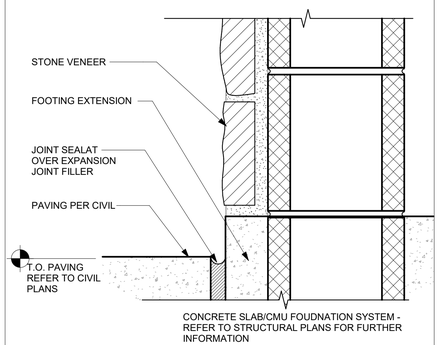
41 WOOD MOUNTING PAD-STONE

A201 A914 SCALE: 3" = 1'-0"



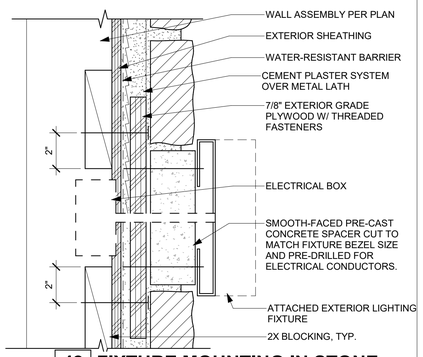
31 KNIFE FIN BRACKET AT STONE

A912 A914 SCALE: 3" = 1'-0"



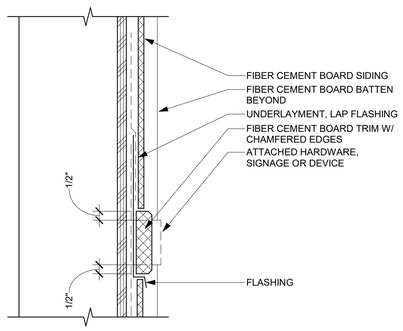
11 STONE BASE AT CMU

A201 A914 SCALE: 3" = 1'-0"



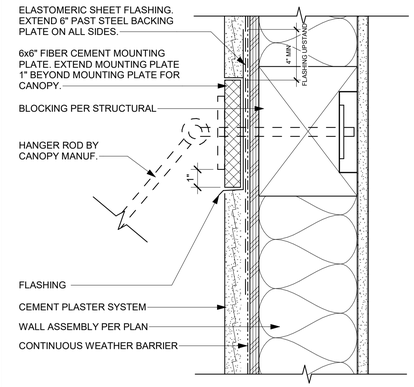
42 FIXTURE MOUNTING IN STONE

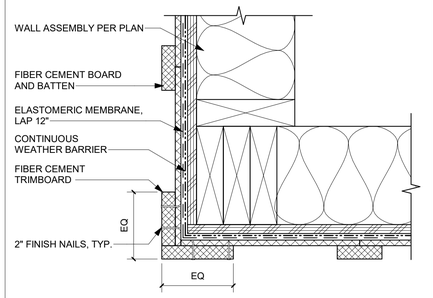
A201 A914 SCALE: 3" = 1'-0"



32 BOARD & BATTEN MOUNTING PAD

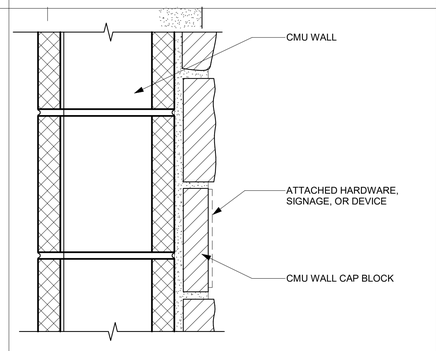
A914 SCALE: 3" = 1'-0"





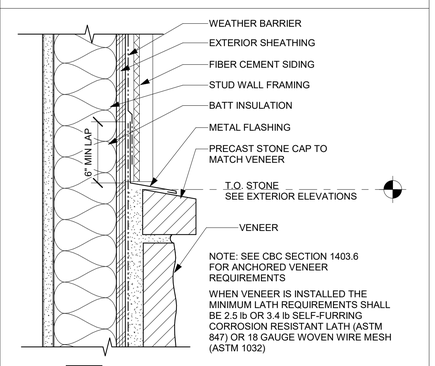
12 BOARD & BATTEN OUTSIDE CORNER

A203 A914 SCALE: 3" = 1'-0"



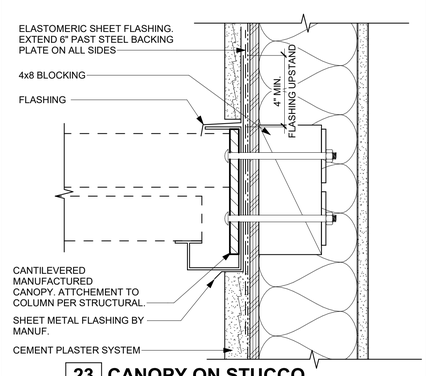
43 MOUNTING PAD-STONE @ CMU

A914 SCALE: 3" = 1'-0"



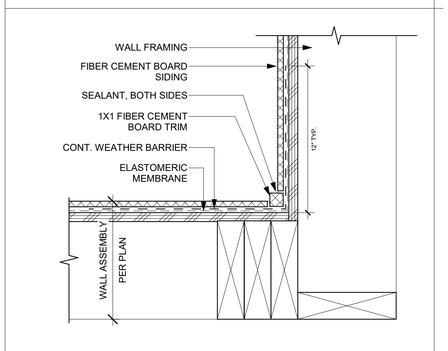
33 STONE WAINSCOT ON STUD WALL

A201 A914 SCALE: 3" = 1'-0"



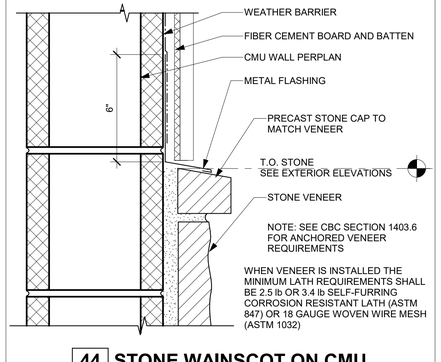
23 CANOPY ON STUCCO

A201 A914 SCALE: 3" = 1'-0"



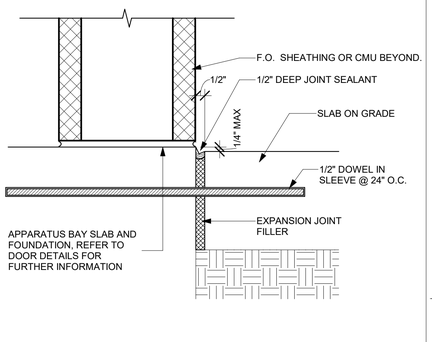
13 INSIDE CORNER TRIM

A101 A914 SCALE: 3" = 1'-0"



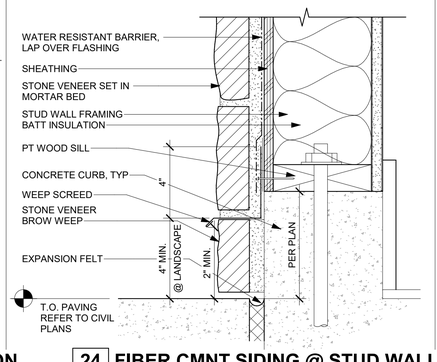
44 STONE WAINSCOT ON CMU

A201 A914 SCALE: 3" = 1'-0"



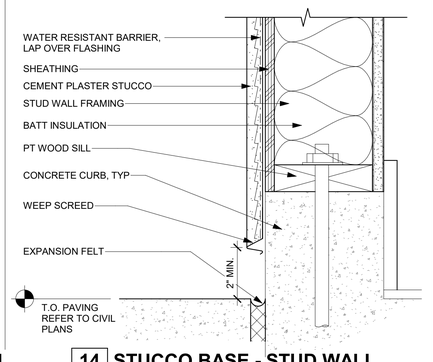
34 EXPANSION JOINT AT CONC APRON

A201 A914 SCALE: 3" = 1'-0"



24 FIBER CMNT SIDING @ STUD WALL

A203 A914 SCALE: 3" = 1'-0"



14 STUCCO BASE - STUD WALL

A203 A914 SCALE: 3" = 1'-0"

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMISSION OR DISTRIBUTION OF THESE DOCUMENTS TO OTHERS SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

EXTERIOR DETAILS

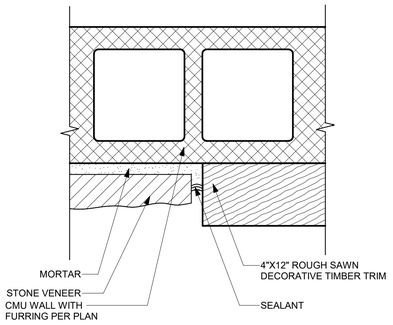
NO.	REVISION	DATE

PROJECT MANAGER MLS
DRAWN BY
CHECKED BY CW
DATE MAY 4, 2026
PROJECT NUMBER 2471-01-CI21
SHEET A-914

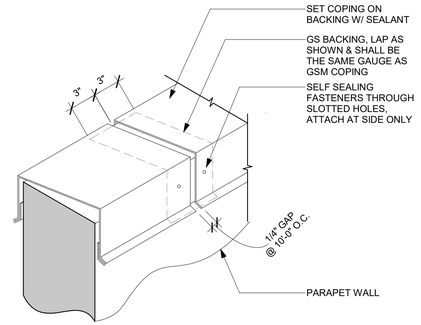
BID DOCUMENTS

County of Madera – CBD Building and Fire Safety Building Division
Plans Approved under the 2022 California Building Code
Date: 05/04/2026
Plans and Ordinances shall not be changed without approval

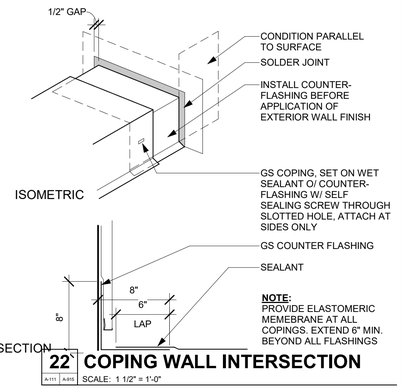
4/30/2026 3:49:05 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt



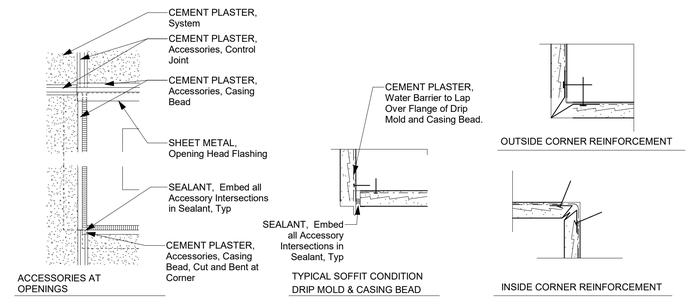
31 DECORATIVE HEADER AT STONE
A201 | A915 SCALE: 3" = 1'-0"



21 ROOF-COPING JOINT
A915 SCALE: 1 1/2" = 1'-0"



22 COPING WALL INTERSECTION
A111 | A915 SCALE: 1 1/2" = 1'-0"



24 SCREED DETAILS
A915 SCALE: 3" = 1'-0"

BID DOCUMENTS

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

Licensed Architect
Michael L. Scott
License No. 31544
Expires 10/31/21
State of California

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2021.
RRM IS A CALIFORNIA CORPORATION

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

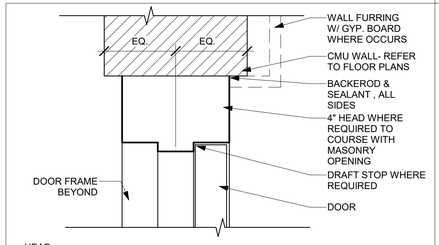
EXTERIOR DETAILS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

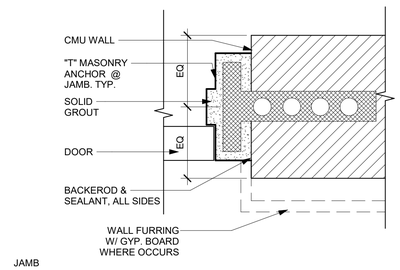
PROJECT MANAGER: MLS
DRAWN BY: | CHECKED BY: CW
DATE: May 4, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: A-915

Approved Plans
City of Madera – Community Development Department
Building Division
Fire Safety
California Building Code 2022
Date 05/04/2026
Under the
Codes and Ordinances, not valid without signature

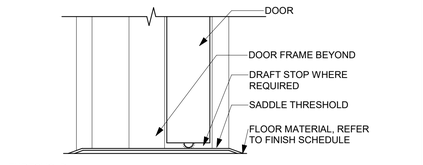
4/30/2026 3:49:06 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt



HEAD

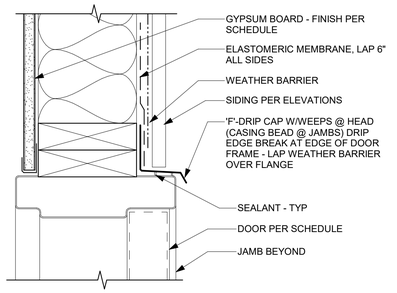


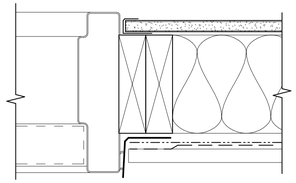
JAMB

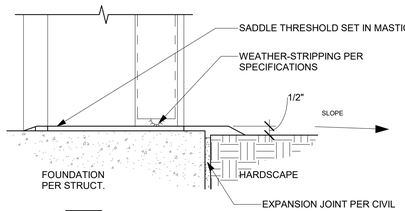


THRESHOLD

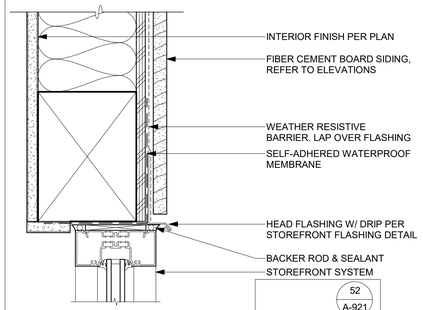
52 INTERIOR DOOR @ CMU WALL
A-920 SCALE: 3" = 1'-0"



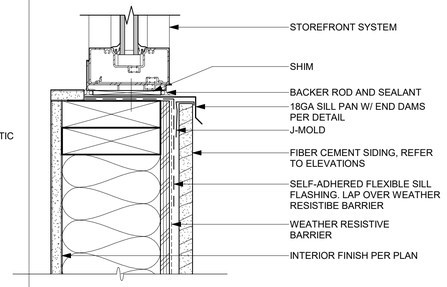




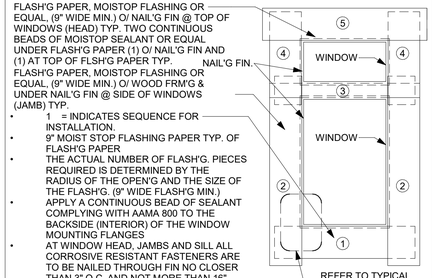
42 EXTERIOR HOLLOW METAL DOOR
A-920 SCALE: 3" = 1'-0"



31 SIDING - HEAD
A-920 SCALE: 3" = 1'-0"

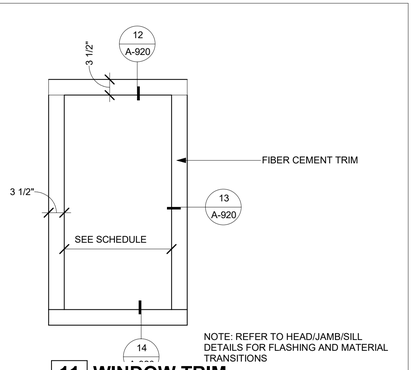


32 SIDING - SILL
A-920 SCALE: 3" = 1'-0"



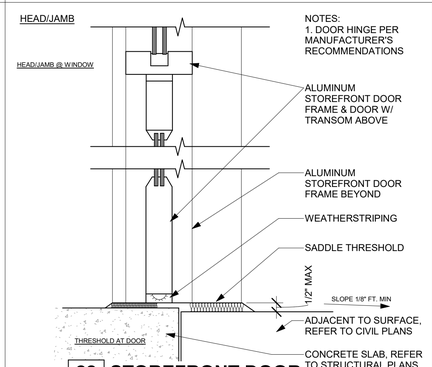
REFER TO AAMA 2400-10 STANDARD PRACTICEW FOR INSTALLATION OF WINDOWS WITH MOUNTING FLANGES IN STUD CONSTRUCTION FOR ADDITIONAL REQUIREMENTS.

21 TYP WINDOW FLASHING
A-920 SCALE: 12" = 1'-0"

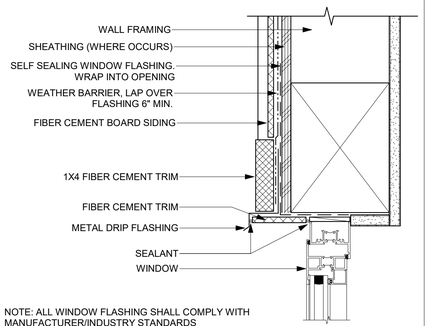


NOTE: REFER TO HEAD/JAMB/SILL DETAILS FOR FLASHING AND MATERIAL TRANSITIONS

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



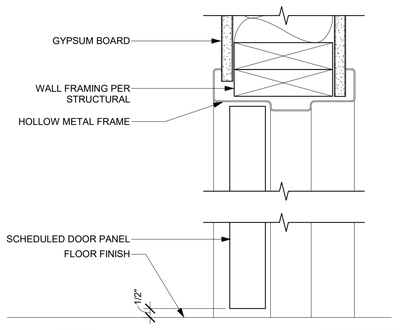
22 STOREFRONT DOOR
A-920 SCALE: 3" = 1'-0"



NOTE: ALL WINDOW FLASHING SHALL COMPLY WITH MANUFACTURER/INDUSTRY STANDARDS

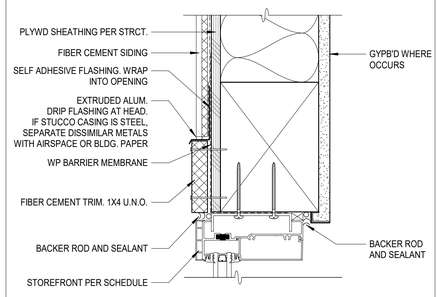
12 WIN-HEAD @ FIBER CMT. SIDING
A-920 SCALE: 3" = 1'-0"

HEAD/JAMB SIMILAR

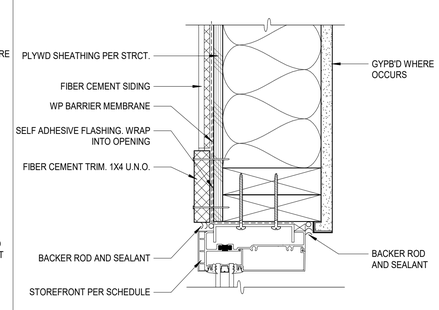


THRESHOLD

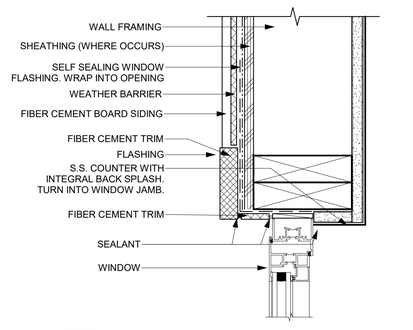
53 INT. DOOR W/ HOLLOW METAL FRAME
A-920 SCALE: 3" = 1'-0"



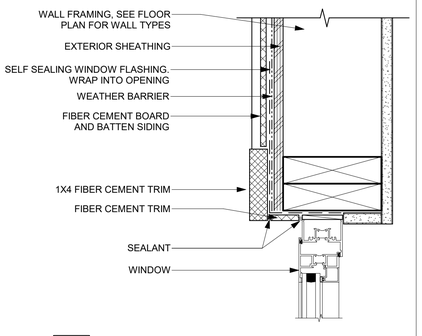
43 STOREFRONT DOOR HEAD
A-920 SCALE: 3" = 1'-0"



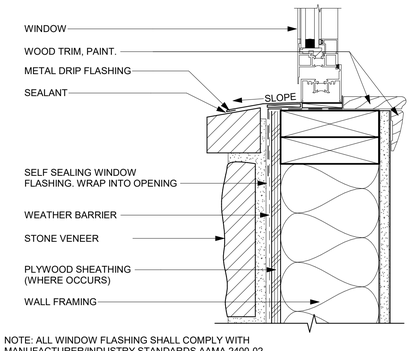
33 STOREFRONT DOOR JAMB
A-920 SCALE: 3" = 1'-0"



23 WIN-JAMB @ KITCHEN
A-920 SCALE: 3" = 1'-0"

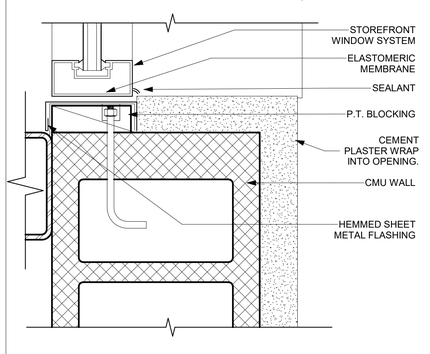


13 WIN-JAMB @ BOARD AND BATTEN
A-920 SCALE: 3" = 1'-0"

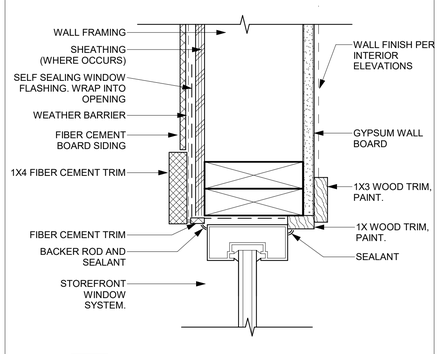


NOTE: ALL WINDOW FLASHING SHALL COMPLY WITH MANUFACTURER/INDUSTRY STANDARDS AAMA 2400-02

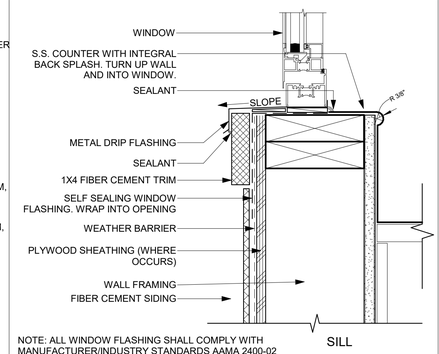
54 WIN-SILL @ STONE VENEER
A-920 SCALE: 3" = 1'-0"



44 STOREFRONT JAMB - CMU
A-920 SCALE: 3" = 1'-0"

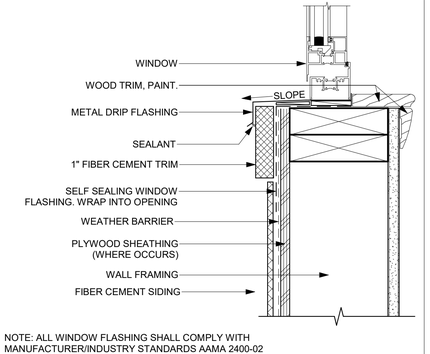


34 S.F. JAMB @ FIBER CMT. SIDING
A-920 SCALE: 3" = 1'-0"



NOTE: ALL WINDOW FLASHING SHALL COMPLY WITH MANUFACTURER/INDUSTRY STANDARDS AAMA 2400-02

24 WIN-SILL @ KITCHEN
A-920 SCALE: 3" = 1'-0"



NOTE: ALL WINDOW FLASHING SHALL COMPLY WITH MANUFACTURER/INDUSTRY STANDARDS AAMA 2400-02

14 WIN-SILL @ FIBER CMT. SIDING
A-920 SCALE: 3" = 1'-0"

4/30/2026 3:49:07 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt

BID DOCUMENTS

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMISSION OR DISTRIBUTION OF THESE DOCUMENTS TO MEET OFFICIAL REGULATORY REQUIREMENTS OR FOR OTHER PURPOSES IN CONNECTION WITH THE PROJECT IS NOT TO BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS OR PRIVILEGES.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

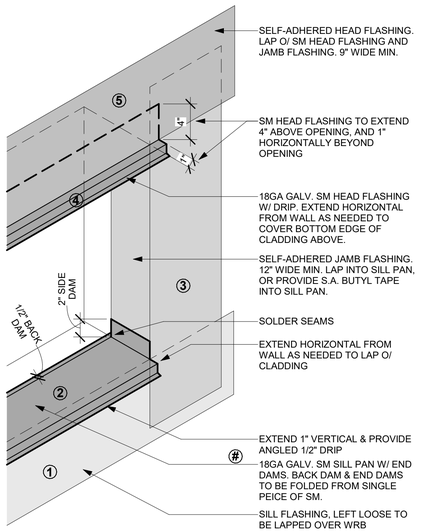
RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

DOOR AND WINDOW DETAILS

NO.	REVISION	DATE

PROJECT MANAGER
MLS
DRAWN BY
CW
CHECKED BY
MLS
DATE
MAY 4 2026
PROJECT NUMBER
2471-01-CI21
SHEET
A-920

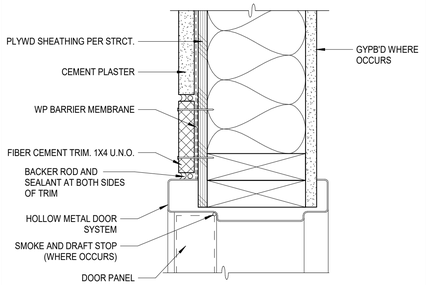
County of Madera – CFD Building and Fire Plans Approved Under the 2022 California Building Code and Ordinances. Valid until 12/31/2026. Date: 05/04/2026
Safety Division



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

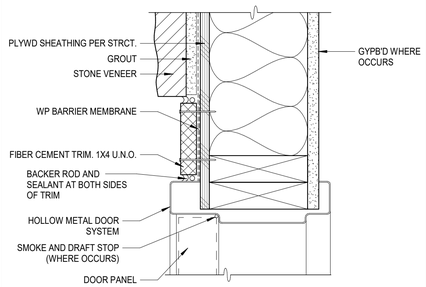
52 STOREFRONT FLASHING

A-920 | A-921 NTS



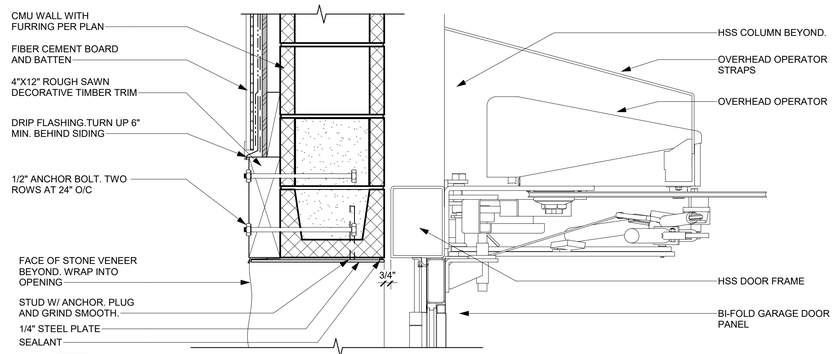
41 HOLLOW METAL DOOR JAMB @ CEMENT PLASTER

A-921 SCALE: 3" = 1'-0"



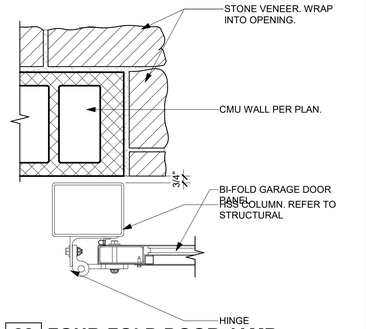
42 HOLLOW METAL DOOR JAMB @ CEMENT PLASTER

A-921 SCALE: 3" = 1'-0"



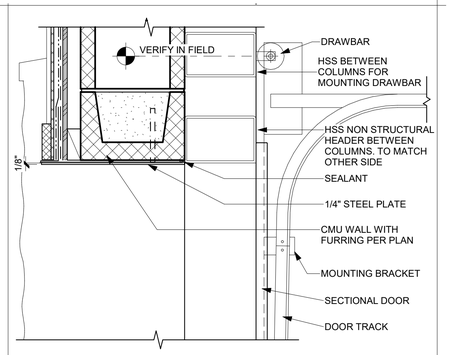
21 FOUR-FOLD DOOR HEAD

A-310 | A-921 SCALE: 1 1/2" = 1'-0"



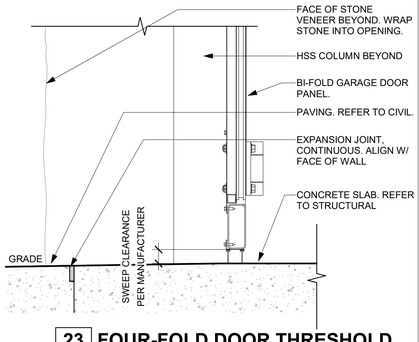
22 FOUR-FOLD DOOR JAMB

A-921 SCALE: 1 1/2" = 1'-0"



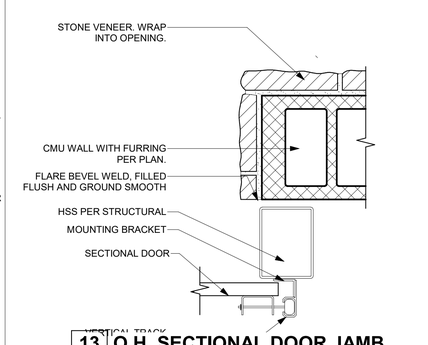
12 O.H. SECTIONAL DOOR HEAD

A-921 SCALE: 1 1/2" = 1'-0"



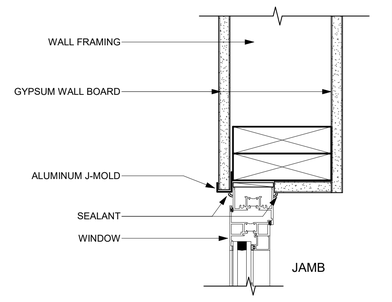
23 FOUR-FOLD DOOR THRESHOLD

A-141 | A-921 SCALE: 1 1/2" = 1'-0"



13 O.H. SECTIONAL DOOR JAMB

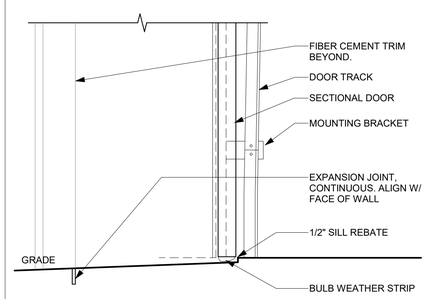
A-921 SCALE: 1 1/2" = 1'-0"



NOTE: HEAD AND SILL SIMILAR.

24 WIN-JAMB - INTERIOR

A-921 SCALE: 3" = 1'-0"



14 O.H. SECTIONAL DOOR THRESHOLD

A-141 | A-921 SCALE: 1 1/2" = 1'-0"

BID DOCUMENTS

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMISSION OR DISTRIBUTION OF THESE PLANS FOR REGULATORY APPROVAL SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

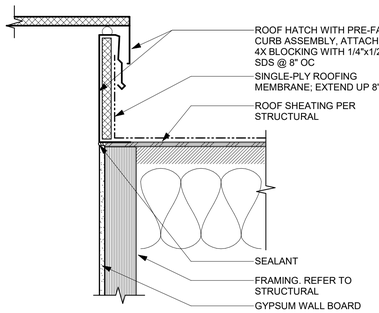
DOOR AND WINDOW DETAILS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: MLS
DRAWN BY: CW
CHECKED BY: CW
DATE: MAY 4, 2026
Date: 05/04/2026
PROJECT NUMBER: 2471-01-CI21
SHEET: A-921

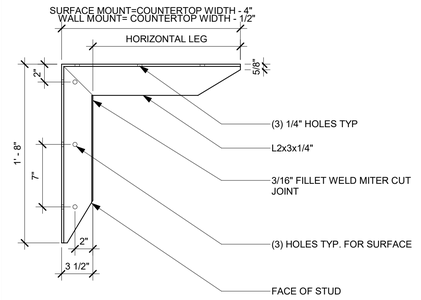
County of Madera – CBD Building and Fire Safety Division
Plans Approved Under the 2022 California Building Codes and Ordinances, not valid without signature

4/30/2026 3:49:08 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt



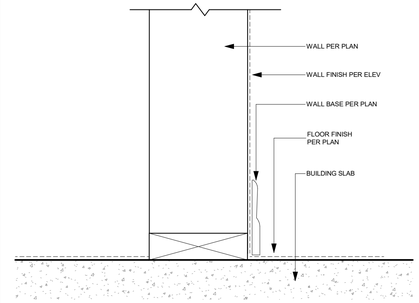
41 ROOF HATCH FLASHING

A-930 A-930 SCALE: 1 1/2" = 1'-0"



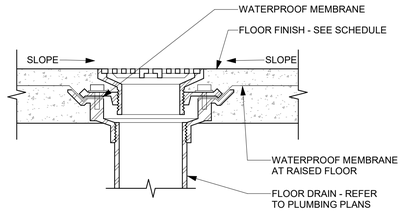
31 STEEL COUNTERTOP BRACKET

A-930 SCALE: 1 1/2" = 1'-0"



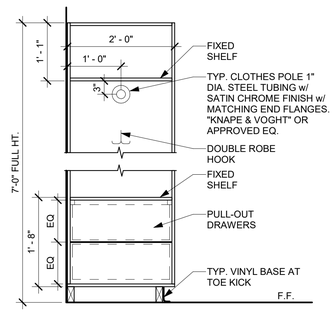
11 WALL BASE

A-930 SCALE: 3" = 1'-0"



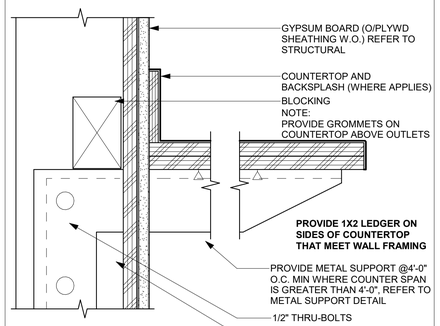
32 FLOOR DRAIN

A-930 SCALE: 3" = 1'-0"



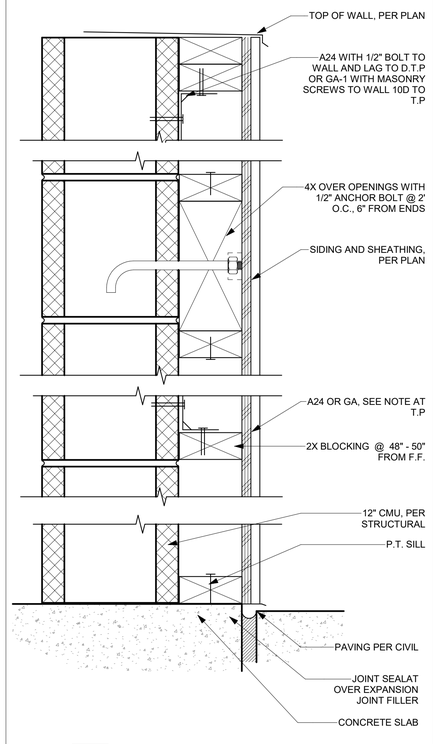
22 DORM RM. LOCKER SECTION

A-930 SCALE: 3/4" = 1'-0"



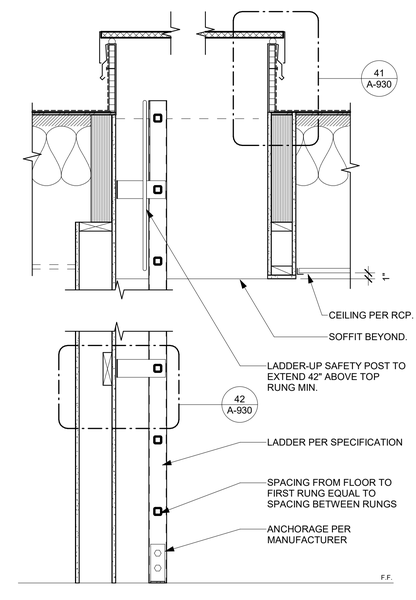
12 WORK AREA/COUNTERTOP SUPPORT

A-930 SCALE: 3" = 1'-0"



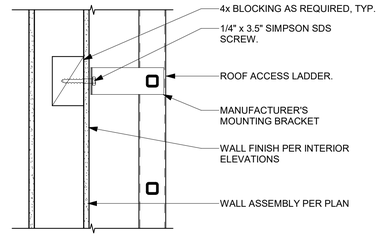
52 3 1/2" FURRING ATTACHMENT

A-930 SCALE: 3" = 1'-0"



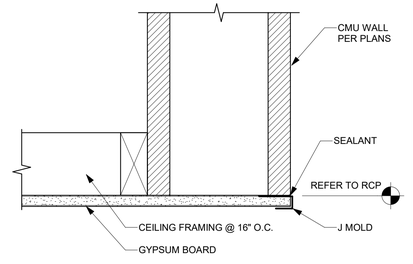
44 ROOF HATCH AND LADDER

A-930 SCALE: 1" = 1'-0"



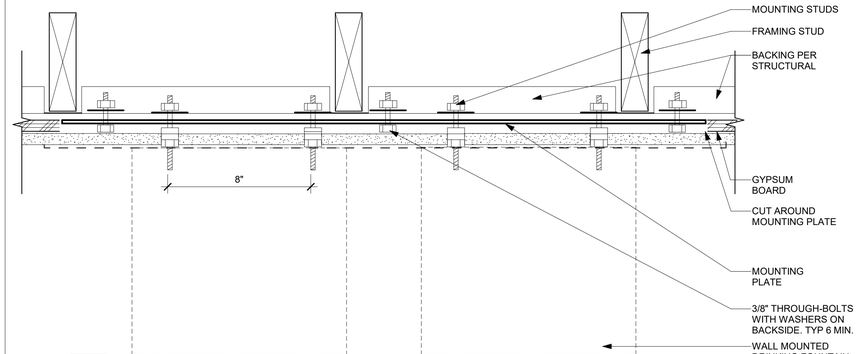
42 LADDER ATTACHMENT

A-930 A-930 SCALE: 1 1/2" = 1'-0"



13 SOFFIT AT CMU (PLAN)

A-930 SCALE: 3" = 1'-0"



34 DUAL WALL MOUNT FOUNTAIN

A-930 SCALE: 3" = 1'-0"

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. IN THE EVENT OF UNAUTHORIZED REUSE, THE ARCHITECT SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

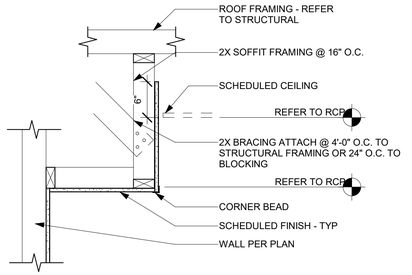
INTERIOR DETAILS

NO.	REVISION	DATE

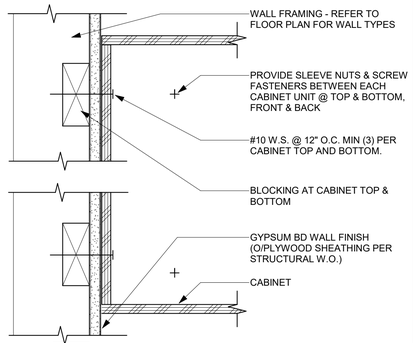
PROJECT MANAGER
MLS
DRAWN BY
CW
CHECKED BY
MLS
DATE
MAY 4, 2026
PROJECT NUMBER
2471-01-CI21
SHEET
A-930

County of Madera – CFD Building and Fire Plans Approved Under the 2022 California Building Codes and Ordinances. Valid until Building Division Signature

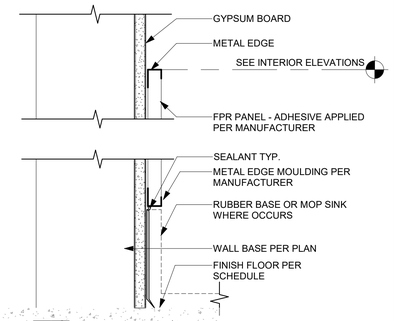
4/30/2026 3:49:08 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt



31 SOFFIT FRAMING
A-931 SCALE: 1" = 1'-0"



21 UPPER CABINET ANCHORAGE
A-931 SCALE: 3" = 1'-0"



11 FRP WAINSCOT
A-931 SCALE: 3" = 1'-0"

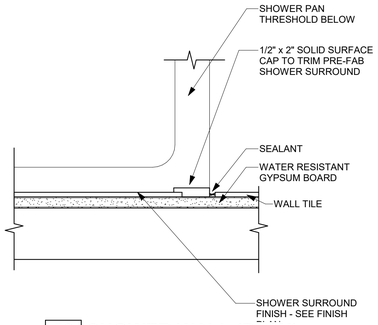
rrm design group
rrmdesign.com | (805) 543-1794

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SHOULD CONSENT BE GIVEN, IT DOES NOT TRANSFER RIGHTS AND SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

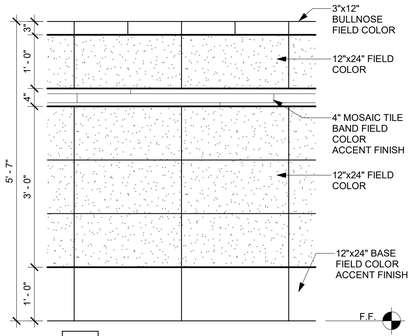
LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

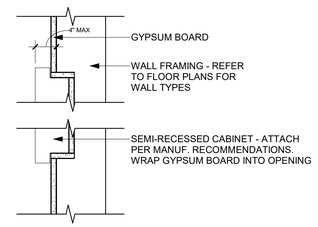
AGENCY



52 SHOWER WALL (PLAN)
A-931 SCALE: 3" = 1'-0"

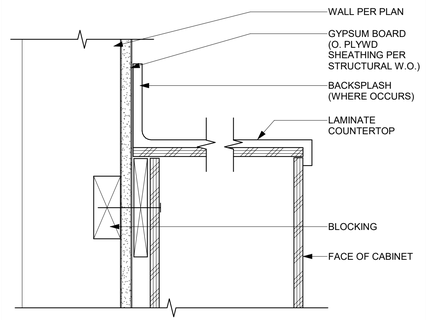


42 TILE WAINSCOT PATTERN
A-931 SCALE: 3/4" = 1'-0"

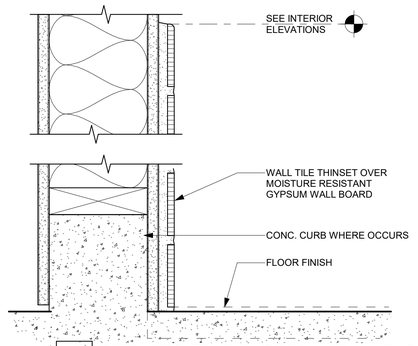


MOUNT WITH OPERABLE PORTION OF CABINET OR EXTINGUISHER AT 48" MAX. A.F.F.

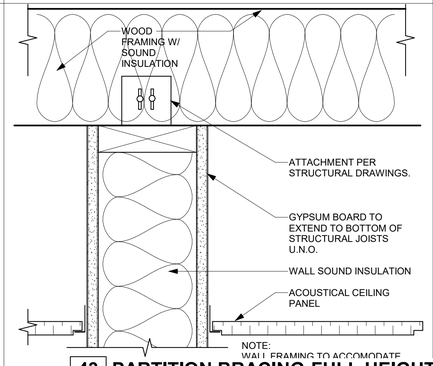
32 FIRE EXTINGUISHER CABINET
A-931 SCALE: 1 1/2" = 1'-0"



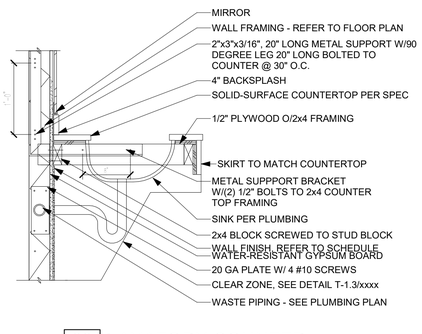
22 LAMINATE COUNTERTOP
A-931 SCALE: 3" = 1'-0"



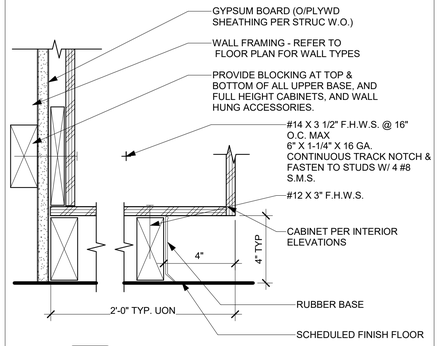
12 CERAMIC TILE-FLOOR AND WAINSCOT
A-931 SCALE: 3" = 1'-0"



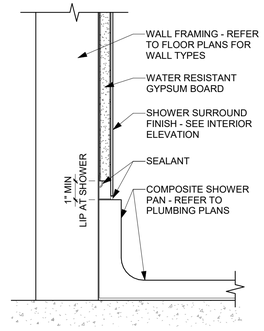
43 PARTITION BRACING-FULL HEIGHT
A-931 SCALE: 3" = 1'-0"



33 LAVATORY COUNTER
A-931 SCALE: 1" = 1'-0"

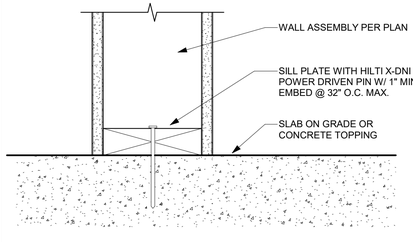


23 BASE CABINET ANCHORAGE
A-931 SCALE: 3" = 1'-0"

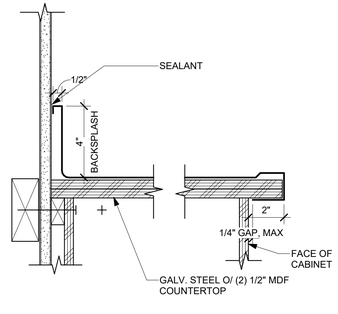


13 SHOWER WALL / PAN
A-931 SCALE: 3" = 1'-0"

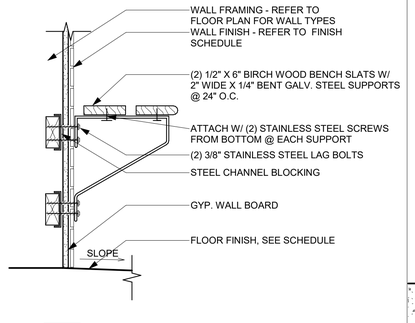
NOTE:
1.WALL FRAMING TO ACCOMODATE 5LB/SF INT. LOAD.
2.LINE CAULK BETWEEN WALL AND RUNNER (TYP)



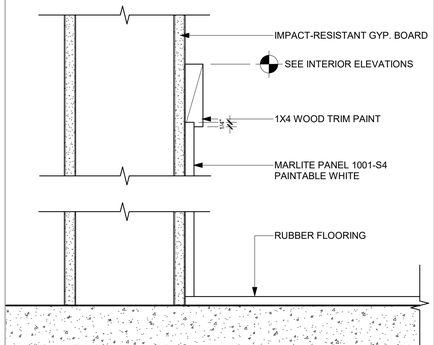
44 NON-BEARING PARTITION BRACING
A-931 SCALE: 3" = 1'-0"



34 GALV. STEEL COUNTERTOP
A-931 SCALE: 3" = 1'-0"
GALVANIZED STEEL SIM.



24 SHOWER BENCH
A-931 SCALE: 1 1/2" = 1'-0"



14 ATHLETIC FLOORING WAINSCOT
A-915 A-931 SCALE: 3" = 1'-0"

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

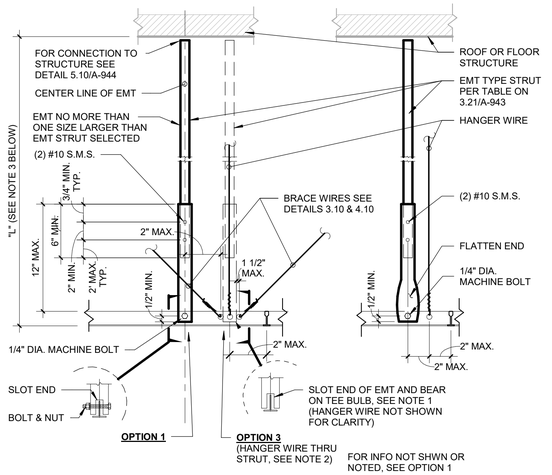
INTERIOR DETAILS

NO.	REVISION	DATE

PROJECT MANAGER
MLS
DRAWN BY
CW
CHECKED BY
MLS
DATE
MAY 4, 2026
PROJECT NUMBER
2471-01-CI21
SHEET
A-931

County of Madera – CDD Building and Fire Safety
Plans Approved Under the 2022 California Building Code
Date: 05/04/2026
Plans and Documents not valid without signature

4/30/2026 3:49:09 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt



OPTION 1 & 3

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 3.21/A-943 FOR THE COMPRESSION STRUT USED

31 COMPRESSION STRUT - EMT TYPE

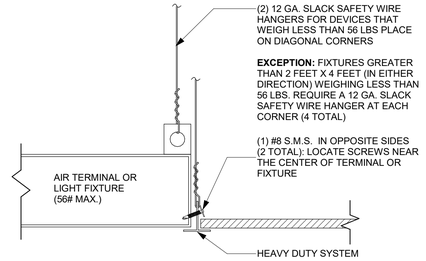
A-932 SCALE: 1 1/2" = 1'-0"

HANGER WIRE

BRACE WIRE

33 HGR. & BRACE WIRE CONN. - TYP. WIRE TURNS

A-932 SCALE: 3" = 1'-0"



21 LUMINAIRE/AIR TERMINAL SUPPORT

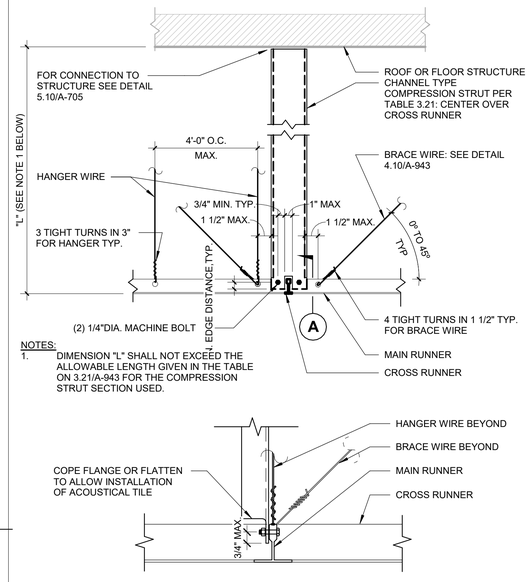
A-932 SCALE: 3" = 1'-0"

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"

COMPRESSION STRUT CHANNEL SECTION	MAXIMUM LENGTH
250S125-33	5' - 10"
250S137-33	6' - 10"
362S137-33	8' - 0"
250S137-43	8' - 10"
400S137-43	10' - 10"

22 COMPRESSION STRUT TABLE

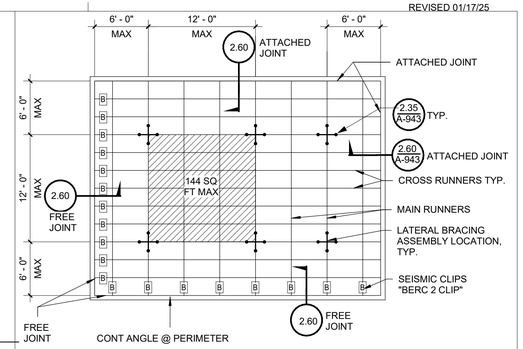
A-932 SCALE: 12" = 1'-0"



NOTES:
1. DIMENSION "L" SHALL NOT EXCEED THE ALLOWABLE LENGTH GIVEN IN THE TABLE ON 3.21/A-943 FOR THE COMPRESSION STRUT SECTION USED.

23 COMPRESSION STRUT - CHANNEL TYPE

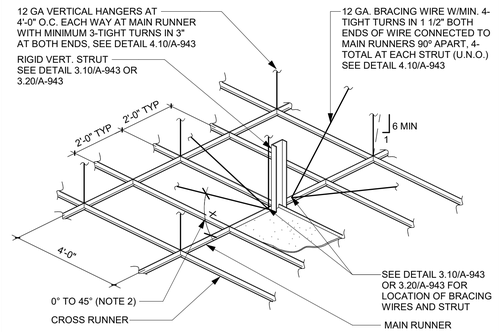
A-932 SCALE: 3" = 1'-0"



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

11 TYP. CLG PLAN-12 X 12' BRACE ASSEM. SPACING

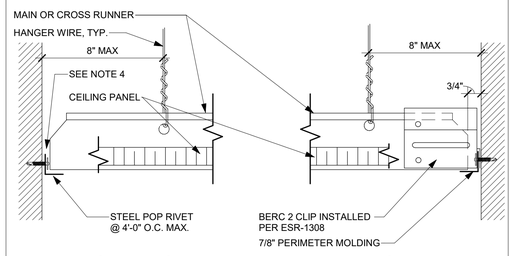
A-932 SCALE: 1/8" = 1'-0"



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.

12 SUSPENSION & LATERAL BRACING ASSEMBLY

A-932 SCALE: 3" = 1'-0"



ATTACHED JOINT FREE JOINT

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. 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.

DETAIL UPDATED WITH PROPRIETARY "BERC-2 CLIPS"

13 CEILING PERIMETER

A-932 SCALE: 3" = 1'-0"

REVISED 01/17/25

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMISSION OR DISTRIBUTION OF THESE DOCUMENTS TO OTHERS SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

CONSULTANT

AGENCY

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

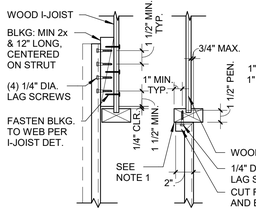
SUSPENDED CEILING DETAILS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

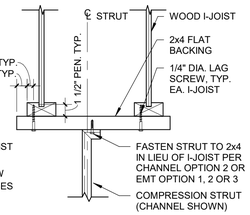
PROJECT MANAGER: MLS
DRAWN BY: CW
CHECKED BY: CW
DATE: MAY 4, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: A-932

County of Madera – CEO Building and Fire Safety
Plans Approved Under the 2022 California Building Code
Date 05/04/2026
Approved Plans Must Be Kept On Job Site
Codes and Ordinances, not valid without signature

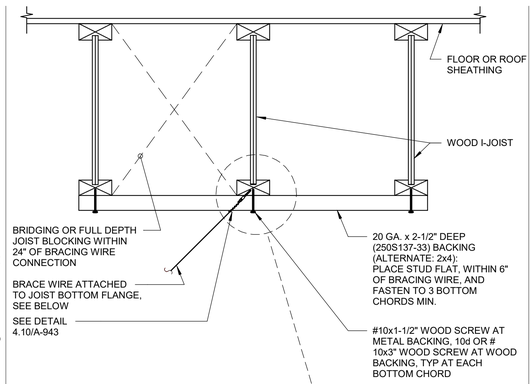
4/30/2026 3:49:10 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt

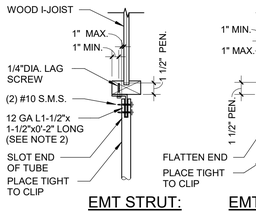


CHANNEL STRUT: OPTION 1

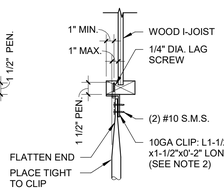


CHANNEL STRUT: OPTION 2

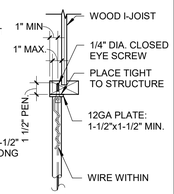




EMT STRUT: OPTION 1



EMT STRUT: OPTION 2

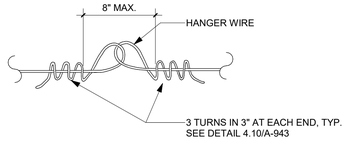


EMT STRUT: OPTION 3

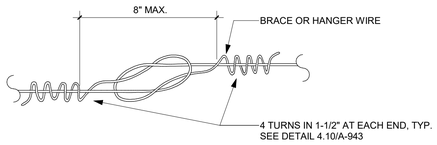
NOTES:
1. WEB OF CHANNEL TO BEAR WITHIN WIDTH OF WOOD MEMBER.
2. VERTICAL LEG OF MEMBER TO FALL WITHIN THE WIDTH OF THE WOOD MEMBER.
3. SEE DETAIL 5.50 FOR ADDITIONAL INFORMATION.
4. PEN = MINIMUM PENETRATION OF LAG SCREW THREADS INTO THE WOOD MEMBER.
5. NO. 14 WOOD SCREW MAY BE USED IN LIEU OF 1/4"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

41 STRUT CONNECTION TO I-JOIST

A-933 SCALE: 1 1/2" = 1'-0"



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.

42 CEILING WIRE SPLICES

A-933 SCALE: 3" = 1'-0"

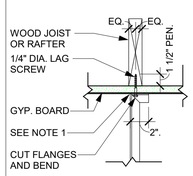
31 BRACE WIRE CONNECTION TO WOOD I-JOIST

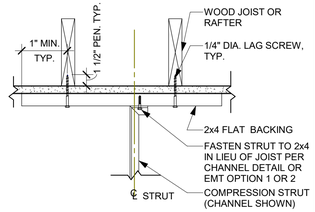
A-933 SCALE: 1 1/2" = 1'-0"

STRUCTURAL SYSTEM OF FLOOR/ ROOF ABOVE SUSPENDED CEILING	APPLICABLE DETAIL
BARE METAL DECK	N/A
CONCRETE OVER METAL DECK	N/A
CONCRETE SLAB, BEAM, OR JOIST	N/A
STRUCTURAL STEEL	N/A
SAWN TIMBER WITH GYPSUM BOARD	N/A
SAWN TIMBER WITHOUT GYPSUM BOARD	
WOOD I-JOIST	41 / A-933

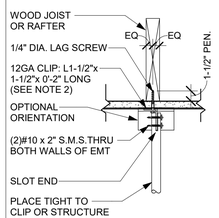
32 COMPRESSION STRUT CONNECTION TABLE

A-933 SCALE: 12" = 1'-0"

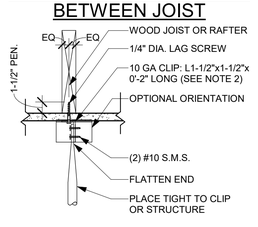




CHANNEL STRUT



CHANNEL OR EMT STRUT: BETWEEN JOIST



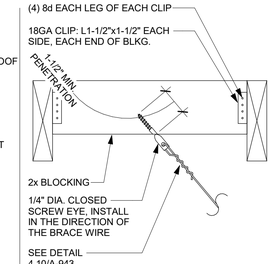
EMT STRUT: OPTION 1

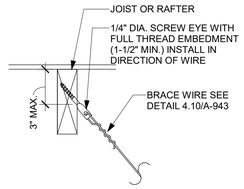
EMT STRUT: OPTION 2

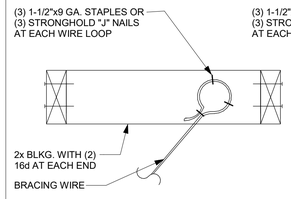
NOTES:
1. WEB OF CHANNEL TO BEAR WITHIN WIDTH OF THE WOOD MEMBER.
2. FOR ANGLE ORIENTED IN THE STANDARD POSITION, VERTICAL LEG TO FALL WITHIN THE WIDTH OF THE WOOD MEMBER.
3. PEN. = MINIMUM PENETRATION OF LAG SCREW THREADS INTO THE WOOD MEMBER.
4. NO. 14 WOOD SCREW MAY BE USED IN LIEU OF 1/4" LAG SCREW.

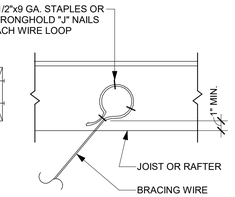
34 STRUT CONNECTION TO SAWN TIMBER WITH GYP.

A-933 SCALE: 1 1/2" = 1'-0"



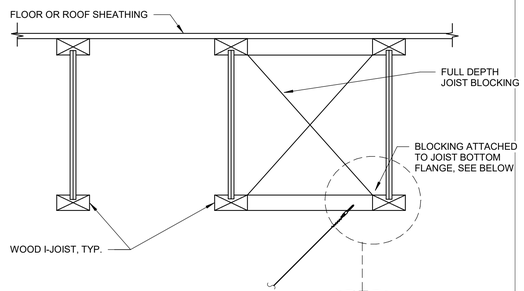






21 BRACE WIRE CONNECTION TO SAWN TIMBER

A-933 SCALE: 1 1/2" = 1'-0"



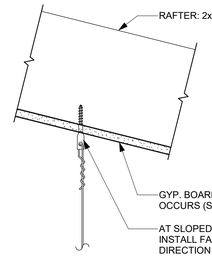
22 BRACE WIRE CONNECTION TO I-JOIST

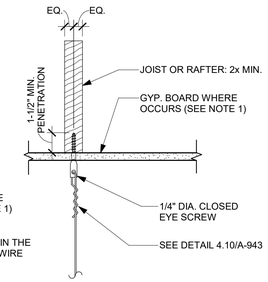
A-933 SCALE: 1 1/2" = 1'-0"

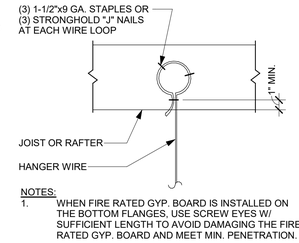
STRUCTURAL SYSTEM OF FLOOR/ ROOF ABOVE SUSPENDED CEILING	APPLICABLE HANGER WIRE DETAIL	APPLICABLE BRACE WIRE DETAIL
BARE METAL DECK	N/A	N/A
CONCRETE OVER METAL DECK	N/A	N/A
CONCRETE SLAB, BEAM, OR JOIST	N/A	N/A
STRUCTURAL STEEL	N/A	N/A
METAL STUD WALL	N/A	N/A
SAWN TIMBER	12 / A-933 & - / ---	21 / A-933
WOOD I-JOIST	13 / A-933	31 / A-933 & 22 / A-933
WOOD CHORD TRUSS	- / ---	- / ---
OPEN WEB STEEL JOIST	- / ---	- / ---

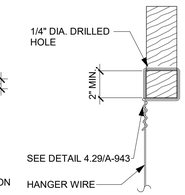
11 HANGER & BRACE WIRE CONN. TABLE

A-933 SCALE: 12" = 1'-0"



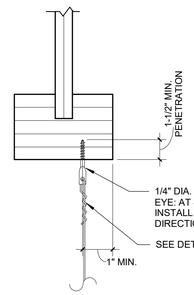






12 HANGER WIRE CONNECTION TO SAWN TIMBER

A-933 SCALE: 1 1/2" = 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.

13 HANGER WIRE CONNECTION TO WOOD I-JOIST

A-933 SCALE: 1 1/2" = 1'-0"

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

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMISSION OR DISTRIBUTION OF THESE PLANS FOR REVIEW OR BIDDING SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2026
RRM IS A CALIFORNIA CORPORATION

LICENSED ARCHITECT
MICHAEL L. SCOTT
C31544
10-31-27
RENEWAL DATE
STATE OF CALIFORNIA

CONSULTANT

AGENCY

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

SUSPENDED CEILING DETAILS

NO.	REVISION	DATE

PROJECT MANAGER: MLS
DRAWN BY: CHECKED BY: CW
DATE: MAY 4, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: A-933

BID DOCUMENTS

County of Madera – CFD Building and Fire Safety Division
Plans Approved Under the 2022 California Building Code
Date: 05/04/2026
Plans and Engineering calculations must be kept on jobsite at all times without signature

4/30/2026 3:49:11 PM
Autodesk Docs://2471-01 - Riverstone Fire Station/2471-01-CI21-Riverstone Fire Station.rvt

MATERIAL DATA

GENERAL

ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE GOVERNING CODE. SEE 'PROJECT DATA'

CONSTRUCTION LIABILITY
THE CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS AGREE THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT LIMITED TO NORMAL WORKING HOURS, AND THE CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS FURTHER AGREE TO DEFEND, INDEMNIFY AND HOLD THE DESIGN PROFESSIONAL HARMLESS FROM ANY LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.

CONCRETE & REINFORCING

REINFORCING STEEL
BARS #4 AND LARGER FOR REINFORCING OF COLUMNS, WALLS, BEAMS,GIRDERS & FOOTINGS RESISTING SEISMIC LOAD SHALL BE GRADE 60 DEFORMED BARS CONFORMING TO ASTM A706. ALL OTHER BARS MAY BE GRADE 60 DEFORMED BARS CONFORMING TO ASTM A706 OR A615. LAP SPLICES SHALL BE IN ACCORDANCE WITH ACI 318 - CURRENT EDITION UNLESS NOTED OTHERWISE ON THE PLANS. REINFORCING FOR SHOTCRETE SHALL HAVE NON CONTACT LAP SPLICES PER CBC, CURRENT GOVERNING EDITION. BARS TO BE WELDED OR FIELD BENT SHALL CONFORM TO ASTM A706.

MECHANICAL REINFORCEMENT COUPLING DEVICE
MECHANICAL COUPLING OF REINFORCEMENT SHALL BE LENTON STANDARD COUPLERS BY ERICO (IAPMO ES ER 0129) OR APPROVED EQUAL.

MECHANICAL REINFORCEMENT ANCHORAGE DEVICE
MECHANICAL ANCHORAGE OF REINFORCEMENT SHALL BE WITH LENTON TERMINATOR REBAR END ANCHORS BY ERICO (IAPMO ES ER 0188) OR APPROVED EQUAL.

CONCRETE
CONCRETE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT EDITION OF ACI 301 & 318. CONCRETE SHALL BE READY-MIXED CONCRETE IN ACCORDANCE WITH ASTM C94.

MAXIMUM WATER-CEMENT RATIO, BY WEIGHT

28 DAY COMPRESSIVE STRENGTH	WATER-CEMENT RATIO
3500 PSI CONCRETE	0.45
3000 PSI CONCRETE	0.50

AVERAGE DRYING SHRINKAGE FOR CONCRETE AFTER 21 DAYS OF DRYING SHALL NOT EXCEED 0.040% IN SUSPENDED SLABS AND 0.048% IN SLABS ON GRADE.

AT THE CONTRACTOR'S OPTION, AN AIR ENTRAINING AGENT CONFORMING TO THE LATEST REVISION OF ASTM SPECIFICATION C260 MAY BE ADDED TO THE CONCRETE TO PROVIDE UP TO A MAXIMUM OF 3% ± 1.5% ENTRAINED AIR. CEMENT SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PORTLAND CEMENT PER ASTM DESIGNATION C150, TYPE II. NO MORE THAN 15% BY WEIGHT OF CEMENT MAY BE REPLACED BY FLY ASH CONFORMING TO ASTM C618, CLASS N OR F.

CONCRETE ELEMENT	MIN 28 DAY COMPRESSIVE STRENGTH	MAX SIZE AGGREGATE (INCHES)	SLUMP (INCHES)
FOOTINGS	3000	1-1/2	3
SLABS ON GRADE	3500	1	4

SLUMP WILL BE MEASURED AT THE TRUCK DISCHARGE. SLUMPS NOTED ABOVE ARE FOR CONCRETE WITHOUT ADMIXTURES TO BE CONSOLIDATED USING VIBRATION. FORMWORK CONSTRAINTS, CONGESTION OF REBAR, AND PUMPING OF CONCRETE MAY REQUIRE INCREASED SLUMP BEYOND THE SLUMP LISTED ABOVE. THE CONTRACTOR SHALL ADJUST THE SLUMP UP TO 8" MAX USING ADMIXTURES AS NECESSARY TO PROVIDE WORKABILITY AND CONSISTENCY TO PERMIT CONCRETE TO BE WORKED READILY INTO FORMS AND AROUND REINFORCEMENT UNDER CONDITIONS OF PLACEMENT TO BE EMPLOYED WITHOUT SEGREGATION OR EXCESSIVE BLEEDING. ALL ADMIXTURES SHALL BE NOTED IN THE SUBMITTED MIX DESIGN AND ARE SUBJECT TO THE ENGINEER'S REVIEW. THE SPECIAL INSPECTOR SHALL BE PROVIDED WITH A BATCH TICKET AND WEIGHT TAG UPON DELIVERY OF EACH LOAD OF CONCRETE.

ALL CONCRETE SHALL BE PLACED WITH MECHANICAL VIBRATION UNLESS NOTED OTHERWISE.

UNDER SLAB MATERIALS
SAND SHALL MEET THE REQUIREMENTS OF ACI 302.1R AND CONTAIN NO MORE THAN 20 PERCENT PASSING THE No. 200 SIEVE. SAND SHALL BE MOIST BUT NOT SATURATED AT THE TIME OF CONCRETE SLAB PLACEMENT.

SLAB MEMBRANE SHALL BE 15 MIL POLYETHYLENE FILM, UNLESS NOTED OTHERWISE. LAP SLAB MEMBRANE PER THE MANUFACTURER'S RECOMMENDATIONS, BUT NO LESS THAN 2 FEET.

GRAVEL SHALL BE 3/4" CLEAN MATERIAL MEETING THE REQUIREMENTS OF ACI 302.1R.

NON-SHRINK GROUT
NON SHRINK GROUT SHALL BE FLOWABLE, WITH A MINIMUM 7 DAY COMPRESSIVE STRENGTH OF 5000 PSI. NON-SHRINK GROUT SHALL BE MASTERFLOW 928 GROUT AS MANUFACTURED BY BASF OR APPROVED EQUAL.

MASONRY

STRUCTURAL MASONRY (CMU)
STRUCTURAL MASONRY (CMU) SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT EDITION OF ACI 530 & 530.1. COMPLIANCE WITH SPECIFIED DESIGN STRENGTH METHOD SHALL BE BY THE UNIT STRENGTH METHOD. AT THE CONTRACTOR'S OPTION, THE PRISM TEST METHOD MAY BE USED TO CONFIRM COMPLIANCE WITH SPECIFIED DESIGN STRENGTH.

MASONRY UNITS SHALL BE OPEN ENDED LIGHT WEIGHT UNITS CONFORMING TO ASTM DESIGNATION C90. ALL CELLS SHALL BE GROUTED SOLID. F'm = 2000 PSI. WALL REINFORCEMENT SHALL BE RESTRAINED BY MECHANICAL POSITIONERS AT 48" OC, MAX.

MORTAR SHALL CONFORM TO ASTM C270 TYPE S OR M AND SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI AT 28 DAYS. MASONRY CEMENT MAY NOT BE USED IN MORTAR.

GROUT SHALL BE COARSE GROUT CONFORMING TO ASTM C476. THE GROUT SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS. SLUMP SHALL BE 8" TO 10".

POST INSTALLED ANCHORS

ADHESIVE ANCHORING SYSTEMS FOR CONCRETE
ADHESIVE ANCHORING SYSTEMS SHALL BE:
- HILTI HIT-RE 500 V3 (ICC ESR-3814) OR HIT-HY 200 (ICC ESR 3187)
- SIMPSON SET-XP (ICC ESR-2508) OR AT-XP (IAPMO UES ER-263)
- DEWALT\POWERS PURE 110+ (ICC ESR-3298) OR AC100+ GOLD (ICC ESR-2582)
- APPROVED EQUAL.

INSTALLATION OF ANCHORS AND ADHESIVE INCLUDING DRILLING AND CLEANING OF HOLES SHALL BE IN ACCORDANCE WITH THE CURRENT ICC OR IAPMO REPORT. ADHESIVES SHALL BE USED ONLY IN APPLICATIONS PERMITTED BY THE ADHESIVE'S ICC OR IAPMO REPORT. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR INSTALLATION.

ADHESIVE ANCHORING SYSTEMS FOR GROUTED CONCRETE BLOCK
ADHESIVE ANCHORING SYSTEMS SHALL BE:
- HILTI HIT HY70 (ICC ESR-2682)
- SIMPSON SET-XP (IAPMO UES ER-265) OR AT-XP (IAPMO UES ER-281)
- DEWALT\POWERS AC100+ GOLD (ICC-ES ESR-3200)
- APPROVED EQUAL

INSTALLATION OF ANCHORS AND ADHESIVE INCLUDING DRILLING AND CLEANING OF HOLES SHALL BE IN ACCORDANCE WITH THE CURRENT ICC OR IAPMO REPORT. ADHESIVES SHALL BE USED ONLY IN APPLICATIONS PERMITTED BY THE ADHESIVE'S ICC OR IAPMO REPORT.

POST INSTALLED ANCHORS (CONT.)

EXPANSION ANCHORS FOR CONCRETE
EXPANSION ANCHORS SHALL BE:
- HILTI KWIK BOLT TZ ANCHORS (ICC ESR-1917).
- SIMPSON STRONG BOLT 2 WEDGE ANCHOR (ICC ESR-3037)
- DEWALT\POWERS POWER-STUD+ SD2 (ICC ESR-2502)
- APPROVED EQUAL.

CONTRACTOR SHALL TORQUE ANCHORS IN ACCORDANCE WITH THE ICC OR IAPMO REPORT. EXPANSION ANCHORS SHALL USE WASHERS SIZED TO PREVENT CRUSHING OF THE ATTACHED MEMBER UNDER THE INSTALLATION TORQUE.

EXPANSION ANCHORS FOR GROUTED CONCRETE BLOCK
EXPANSION ANCHORS SHALL BE:
- HILTI KWIK BOLT 3 WEDGE ANCHORS (ICC ESR-1385)
- SIMPSON STRONG BOLT 2 EXPANSION ANCHOR (IAPMO ER-240)
- DEWALT\POWERS POWER-STUD+ SD1 (ICC ESR-2966)
- APPROVED EQUAL.

CONTRACTOR SHALL TORQUE ANCHORS IN ACCORDANCE WITH THE ICC OR IAPMO REPORT. EXPANSION ANCHORS SHALL USE WASHERS SIZED TO PREVENT CRUSHING OF THE ATTACHED MEMBER UNDER THE INSTALLATION TORQUE.

STRUCTURAL STEEL

STRUCTURAL STEEL AND MISCELLANEOUS IRON
STRUCTURAL STEEL AND MISCELLANEOUS IRON SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT EDITION OF THE AISC CODE OF STANDARD PRACTICE.

1. WIDE FLANGE AND STRUCTURAL TEE SHAPES SHALL CONFORM TO ASTM A992.
2. CHANNELS AND ANGLES SHALL CONFORM TO ASTM A36.
3. HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A500, GRADE C.
4. STEEL PIPE SHALL CONFORM TO ASTM A53, GRADE B.
5. STRUCTURAL PLATE SHALL CONFORM TO ASTM A36 OR ASTM A572 GR50.
6. RAISED-PATTERN FLOOR PLATE SHALL CONFORM TO ASTM A786.

ALL STRUCTURAL STEEL AND MISCELLANEOUS IRON SHALL RECEIVE SHOP PRIME COAT EXCEPT ON SURFACES RECEIVING WELDS, EMBEDDED IN CONCRETE, OR AT SLIP CRITICAL HIGH STRENGTH BOLTS WHICH SHALL BE TOUCHED UP AFTER CONNECTION IS COMPLETE. STRUCTURAL STEEL AND MISCELLANEOUS IRON WHICH IS TO HAVE SPRAY ON FIREPROOFING SHALL NOT BE PAINTED. STRUCTURAL STEEL PERMANENTLY EXPOSED TO WEATHER SHALL RECEIVE TWO COATS OF SEMI-GLOSS ALKYD ENAMEL COMPATIBLE WITH PRIMER.

MACHINE BOLTS, ANCHOR BOLTS AND THREADED RODS
BOLTS, NUTS, WASHERS AND RODS PERMANENTLY EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED.

1. BOLTS SHALL CONFORM TO ASTM A307 GRADE A OR B OR A36.
2. ANCHOR BOLTS AND RODS SHALL CONFORM TO ASTM F1554 GR.36.
3. ALL BOLTS & LAG SCREWS SHALL HAVE STANDARD STEEL WASHERS, U.N.O.
4. NUTS SHALL BE AS SHOWN BELOW AND FINISH SHALL MATCH FASTENER.
5. BOLT HOLES SHALL BE STANDARD SIZE (BOLT DIA + 1/16") TYP, U.N.O.

FASTENER GRADE AND SIZE	NUT CLASS	NUT STYLE
ASTM A36 , ASTM A307A, F1554 1/4" TO 1-1/2"	ASTM A563-A	HEX
ASTM A36 , ASTM A307A, F1554, OVER 1-1/2" TO 4"	ASTM A563-A	HEAVY HEX
ASTM A307B, 1/4" TO 4"	ASTM A563-A	HEAVY HEX

WELDING
ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS PER AWS "STANDARD QUALIFICATION PROCEDURE" TO PERFORM THE TYPE OF WORK REQUIRED. ALL WELDING SHALL BE IN ACCORDANCE WITH THE CURRENT AWS WELDING CODE. ARC WELDING ELECTRODES SHALL BE E70 SERIES FOR A36, A53, A500, A572 & A992 MATERIAL, AND E80 SERIES FOR A706 REINFORCING STEEL.

WELD METAL TOUGHNESS SHALL BE REPORTED ON THE ELECTRODE MANUFACTURER'S CERTIFICATE OF COMPLIANCE. ALL ELECTRODES SHALL BE LOW HYDROGEN WITH A MINIMUM CVN VALUE OF 20 FT-LBS AT -20 DEGREE F. EXCEPTIONS: METAL DECK WELDING, STAIR AND HANDRAIL WELDING, LIGHT GAGE STEEL WELDING.

TACK WELDS, AIR-ARC GOUGING AND FLAME CUTTING SHALL NOT BE PERFORMED WITHOUT ADEQUATE PREHEAT OR INCORPORATION INTO THE FINAL WELD.

THE FILLER METAL MANUFACTURER'S PUBLISHED RECOMMENDATIONS SHALL BE THE BASIS FOR DETERMINING THE ALLOWABLE RANGE OF ESSENTIAL VARIABLES FOR THE PRE QUALIFIED WPS. UNLESS NOTED OTHERWISE ON THE PLANS, BACK-UP BARS FOR CJP WELDS SHALL BE REMOVED FOLLOWED BY BACKGOUGING AND BACKWELDING.

AUTOMATIC END WELDED STUDS
AUTOMATIC END WELDED STUDS SHALL BE NELSON GRANULAR FLUX-FILLED S3L SHEAR CONNECTORS OR CFL FULLY THREADED STUDS (OR APPROVED EQUAL).

1. STUDS SHALL CONFORM TO ASTM A108, GRADES C1010 THROUGH C1020, COLD DRAWN STEEL.
2. HEADED ANCHOR STUDS SHALL BE AWS D1.1 TYPE B.
3. THREADED STUDS SHALL BE AWS D1.1 TYPE A.

THE STUDS SHALL BE AUTOMATICALLY END WELDED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS IN SUCH A MANNER AS TO PROVIDE COMPLETE FUSION BETWEEN THE END OF THE STUD AND THE PLATE. THERE SHOULD BE NO POROSITY OR EVIDENCE OF LACK OF FUSION BETWEEN THE WELDED END OF THE STUD AND THE PLATE. THE STUD SHALL DECREASE IN LENGTH DURING WELDING APPROXIMATELY 1/8" FOR 5/8" DIAMETER AND UNDER, AND 3/16" FOR OVER 5/8" DIAMETER. WELDING SHALL BE DONE BY QUALIFIED WELDERS APPROVED BY THE WELDING INSPECTOR.

WOOD FRAMING

SAWN LUMBER
DOUGLAS FIR COAST REGION, CONFORMING TO WEST COAST LUMBER INSPECTION BUREAU STANDARD GRADING AND DRESSING RULE No. 17, AS AMENDED TO DATE.

MOISTURE CONTENT SHALL BE LESS THAN 19% FROM THE TIME OF INSTALLATION ONWARD.

1. 2x, 3x, 4x PLATES, JOISTS, PURLINS AND BEAMS, No. 1 & BETTER, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
2. 2x, 3x, 4x PLATES, JOISTS, PURLINS AND BEAMS, SELECT STRUCTURAL, WHERE NOTED ON THE DRAWINGS.
3. 6x, & LARGER BEAMS, No. 1 WHEN BEAM WIDTH IS NOT MORE THAN 2" GREATER THAN THICKNESS, THE MEMBER SHALL CONFORM TO ITEM 6 BELOW.
4. 2x, 3x, 4x, LEDGERS, No. 1 UNLESS NOTED OTHERWISE ON THE DRAWINGS.
5. 4x4 AND 4x6 POSTS, No. 1 UNLESS NOTED OTHERWISE ON THE DRAWINGS.
6. 6x6 AND LARGER POSTS, DENSE No. 1, WHEN POST WIDTH IS MORE THAN 2" GREATER THAN THICKNESS, THE MEMBER SHALL CONFORM TO ITEM 3 ABOVE.
7. 2x, 3x, STUDS AND BLOCKING, No. 1
8. FOUNDATION PLATES: PRESSURE TREATED DOUGLAS FIR No. 1.

ALL FRAMING LUMBER 6" OR LARGER IN THE LEAST DIMENSION SHALL BE FOHC.

WOOD FRAMING PERMANENTLY EXPOSED TO WEATHER SHALL BE PRESSURE TREATED.

FASTENERS AND BOLT ASSEMBLIES IN PRESSURE TREATED LUMBER SHALL BE HOT DIPPED ZINC-COATED GALVANIZED STEEL IN COMPLIANCE WITH ASTM A 153.

BOLT HOLES SHALL BE 1/32" MIN TO 1/16" MAX LARGER THAN THE BOLT DIAMETER, U.N.O.

GLUED LAMINATED TIMBER
GLUED LAMINATED TIMBER SHALL BE IN CONFORMANCE WITH THE CURRENT STANDARD SPECIFICATION FOR STRUCTURAL GLUED LAMINATED TIMBER PER ANSI A190.1 & ASTM D3737.

MEMBERS SHALL BE INDUSTRIAL APPEARANCE GRADE, EXTERIOR GLUE, END SEALED, LOAD WRAPPED AND MARKED WITH A QUALITY MARK AND A CERTIFICATE SHALL BE PROVIDED TO THE ENGINEER AND BUILDING DEPARTMENT INDICATING CONFORMANCE WITH ANSI A190.1, STRUCTURAL GLUED LAMINATED TIMBER.

GLU-LAMS:
- AITC COMBINATION SYMBOL 24F-V4, LAMINATIONS DF /DF AT SIMPLE SPANS.
- AITC COMBINATION SYMBOL 24F-V8, LAMINATIONS DF /DF AT CANTILEVER OR CONTINUOUS SPAN BEAMS.

WOOD FRAMING (CONT.)

STRUCTURAL COMPOSITE LUMBER
COMPOSITE LUMBER SHALL BE IN CONFORMANCE WITH ASTM D5456 AND ICC ESR-1387. MEMBERS SHALL BE IDENTIFIED BY A STAMP INDICATING THE PRODUCT TYPE AND GRADE, ICC REPORT NUMBER, MANUFACTURER'S NAME, PLANT NUMBER, AND INSPECTION AGENCY'S LOGO.

TIMBERSTRAND LSL:
- HEADERS, BEAMS, JOISTS: 1.55E (2325 Fb) TYP, U.N.O.
- HEADERS, BEAMS, JOISTS: 1.3E (1700Fb) WHERE NOTED
- RIM AND BLOCKING: 1.3E (1700 Fb) TYP, U.N.O.
- RIM: 1.55E (2325Fb) WHERE NOTED.
- COLUMNS: 1.3E (1700Fb) TYP, U.N.O.

MICROLLAM LVL:
- 2.0E (2600Fb) TYP, U.N.O.

PARALLAM PSL:
- HEADERS, BEAMS, JOISTS: 2.2E (2900Fb) TYP, U.N.O.
- COLUMNS: 1.8E (2400Fb) TYP, U.N.O.

PLYWOOD
ALL PLYWOOD SHALL CONFORM TO U.S. PRODUCT STANDARD PS 1-09, AMERICAN PLYWOOD ASSOCIATION. EACH SHEET SHALL BE STAMPED WITH THE PS AND/OR APA GRADEMARK.

ALL PLYWOOD PERMANENTLY EXPOSED TO WEATHER SHALL BE EXTERIOR TYPE PLYWOOD.

ALL UNBLOCKED PLYWOOD EDGES SHALL BE TONGUE-AND-GROOVE OR SUPPORTED WITH PLYWOOD CLEATS OR PLYWOOD CLIPS.

ROOF PLYWOOD:
- 5 PLY EXPOSURE 1, CDX, SPAN RATING 32/16, SPECIES GROUP 2 OR BETTER.

WALL PLYWOOD:
- 3 PLY EXPOSURE 1, CDX, SPAN RATING 24/0, SPECIES GROUP 2 OR BETTER.

PRESERVATIVE TREATMENT FOR WOOD
PRESERVATIVE TREATMENT FOR WOOD SHALL BE WATER-BORNE, NON-ARSENIC, NON-CHROMIUM TYPE COMPLYING WITH AWPA STANDARD U1. PRESERVATIVE TREATMENT SHALL NOT CONTAIN PENTACHLOROPHENOL, ARSENIC COMPOUNDS, OR CREOSOTE. AFTER TREATMENT, RE-DRY WOOD TO BE USED IN ENCLOSED LOCATIONS TO A MOISTURE CONTENT OF 19% OR LESS. RETREAT ALL FIELD CUT ENDS AND SURFACES. FASTENERS AND BOLT ASSEMBLIES IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED IN COMPLIANCE WITH ASTM A153.

LIGHT GAGE METAL CONNECTORS
ALL LIGHT GAGE METAL CONNECTORS SHALL BE SIMPSON STRONG TIE CONNECTORS OR APPROVED EQUAL, UNLESS NOTED OTHERWISE ON THE DRAWINGS. CONNECTORS IN CONTACT WITH PRESSURE TREATED LUMBER TO BE HOT DIPPED ZINC-COATED GALVANIZED STEEL IN COMPLIANCE WITH ASTM A653 OR ASTM A123.

PREFABRICATED WOOD I-JOISTS
1. PREFABRICATED WOOD I-JOISTS SHALL BE RED-I SERIES TRUSS-JOISTS DESIGNED AND MANUFACTURED BY REDBUILT, LLC, (ICC ESR-2994) OR APPROVED EQUAL.
2. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE WOOD I-JOISTS TO BE INSTALLED AS SHOWN ON THE CONTRACT DRAWINGS, INCLUDING LAYOUT, SIZE OF MEMBERS AND CONNECTION DETAILS. IN ADDITION TO THE ABOVE DRAWINGS, CALCULATIONS SHOWING ALL STRESSES AND DEFLECTIONS CAUSED BY DEAD AND LIVE LOADS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. DRAWINGS AND CALCULATIONS SHALL BE SIGNED BY A CIVIL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA.
3. PREFABRICATED WOOD I-JOISTS DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH AN ICC REPORT AND APPLICABLE REQUIREMENTS OF THE MOST CURRENT CBC EDITION ACCEPTED BY THE GOVERNING JURISDICTION.
4. JOIST MANUFACTURER SHALL OBTAIN ALL NECESSARY APPROVALS FROM THE PUBLIC AGENCIES INVOLVED IN GOVERNING CONSTRUCTION.
5. DESIGN CRITERIA:

LOADING PSF=POUNDS PER SQUARE FOOT

ROOF:	DEAD LOAD	22 PSF + JOIST WEIGHT
	LIVE LOAD	20 PSF, REDUCED PER CBC

DEFLECTIONS		LIVE LOAD	DEAD + LIVE LOAD	MAXIMUM
ROOF:	CANTILEVER SPAN*	L/300	L/240	1"
	INTERIOR SPAN	L/360	L/240	1"

* AT CANTILEVER, L = 2X CANTILEVER SPAN

SHEET INDEX

S0.01	MATERIALS SPECIFICATION AND PROJECT INFORMATION
S0.02	TESTING AND SPECIAL INSPECTIONS
S1.01	TYPICAL DETAILS No.1
S1.02	TYPICAL DETAILS No. 2
S1.03	TYPICAL DETAILS No. 3
S1.04	TYPICAL DETAILS No. 4
S1.05	TYPICAL DETAILS No. 5
S1.06	TYPICAL DETAILS No. 6
S1.07	TYPICAL DETAILS No. 7
S2.01	FOUNDATION PLAN
S2.02	LOW ROOF FRAMING PLAN
S2.03	HIGH ROOF FRAMING PLAN
S3.01	WALL ELEVATIONS No. 1
S3.02	WALL ELEVATIONS No. 2
S3.03	WALL ELEVATIONS No. 3
S4.01	FOUNDATION DETAILS
S5.01	FRAMING DETAILS No. 1
S5.02	FRAMING DETAILS No. 2
S5.03	FRAMING DETAILS No. 3
S5.04	FRAMING DETAILS No. 4
S5.05	FRAMING DETAILS No. 5

SUBMITTALS

SUBMITTALS FOR THE ENGINEERS REVIEW WILL BE REQUIRED AS FOLLOWS:
1. REINFORCING STEEL SHOP DRAWINGS
2. MIX DESIGNS
3. STRUCTURAL MASONRY (CMU) CERTIFICATES OF COMPLIANCE AND GROUT MIX DESIGNS
4. MASONRY CONTROL JOINT SHOP DRAWINGS
5. STRUCTURAL STEEL AND MISCELLANEOUS METALS SHOP DRAWINGS
6. WELDING PROCEDURE SPECIFICATIONS (AND PQR IF APPLICABLE)
7. LAMINATED MEMBERS SHOP DRAWINGS
8. PREFABRICATED WOOD I-JOIST SHOP DRAWINGS & CALCULATIONS

NOTES:
1. CONTRACTOR SHALL ELECTRONICALLY SUBMIT SUBMITTALS FOR REVIEW OR SHALL SUBMIT A MINIMUM OF TWO SETS OF HARD PRINTS FOR REVIEW.
2. THE GENERAL CONTRACTOR SHALL REVIEW EACH SUBMITTAL PRIOR TO FORWARDING TO ARCHITECT AND STRUCTURAL ENGINEER. THE GENERAL CONTRACTOR SHALL VERIFY THAT THE SHOP DRAWING IS COORDINATED AMONG ALL CONSTRUCTION TRADES AND THAT THE ARCHITECT'S AND STRUCTURAL ENGINEER'S COMMENTS FROM ANY PREVIOUS SUBMITTALS ARE ADDRESSED.
3. CONTRACTOR SHALL SUBMIT IN WRITING, ANY REQUEST FOR MODIFICATIONS TO THE PLANS AND SPECIFICATIONS. SHOP DRAWINGS SUBMITTED FOR REVIEW DO NOT CONSTITUTE "IN WRITING" UNLESS IT IS CLEARLY NOTED THAT SPECIFIC CHANGES ARE BEING REQUESTED.
4. REVISIONS FROM PREVIOUS SUBMITTALS SHALL BE CLEARLY MARKED BY CLOUDS.
5. FABRICATION SHALL NOT PROCEED UNTIL SUBMITTALS HAVE BEEN REVIEWED BY THE ENGINEER.

CONTRACTOR'S STATEMENT OF RESPONSIBILITY
EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A SEISMIC OR WIND-FORCE RESISTING SYSTEM OR COMPONENT SHALL ISSUE A WRITTEN STATEMENT OF RESPONSIBILITY IN COMPLIANCE WITH SECTION 1704.4 OF THE CURRENT GOVERNING EDITION OF THE CALIFORNIA BUILDING CODE. THE CONTRACTORS STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.

PROJECT DESCRIPTION

LEVELS:	SINGLE STORY FIRE STATION
FOUNDATION:	CONTINUOUS GRADE BEAMS AND ISOLATED COLUMN FOUNDATIONS & CONCRETE SLAB-ON-GRADE
ROOF SYSTEM:	PLYWOOD OVER WOOD JOISTS & WOOD GIRDERS
LATERAL FORCE RESISTING SYSTEM:	SPECIAL REINFORCED CONCRETE MASONRY SHEAR WALLS/BEARING WALLS & PLYWOOD SHEATHED WOOD SHEAR WALLS/BEARING WALLS
DIAPHRAGMS:	PLYWOOD DIAPHRAGMS
CHORDS & COLLECTORS:	WOOD BLOCKING WITH SIMPSON STRAPS

PROJECT DATA

1. PLANS AND CALCULATIONS FOR THE STRUCTURAL DESIGN WERE BASED UPON:
   - GOVERNING CODE: 2019 CALIFORNIA BUILDING CODE
   - SOILS REPORT: "GEOTECHNICAL ENGINEERING INVESTIGATION PROPOSED FIRE STATION SOUTHWEST OF MILESTONE ROAD AND ROAD 40, MADERA COUNTY, CALIFORNIA" PROJECT NUMBER: 012-22085 BY KRAZAN & ASSOCIATES, INC. DATED JUNE 22, 2022
2. VERTICAL LOADS:
   ROOF DEAD LOAD = 22 PSF [APPARATUS BAY] + SOLAR LOAD BELOW
   ROOF DEAD LOAD = 17 PSF
   ROOF LIVE LOAD = 20 PSF [REDUCED PER CODE]
3. EARTHQUAKE DESIGN DATA:
   EQUIVALENT LATERAL FORCE PROCEDURE
   $V = \frac{S_{DS} I}{R} W$
   $S_S = 0.545$; $S_1 = 0.217$
   $S_{DS} = 0.495$; $S_{D1} = 0.313$
   I = 1.5; RISK CATEGORY IV
   SITE CLASS = D; SEISMIC DESIGN CAT = D
   SEISMIC RESISTING SYSTEM: SPECIAL REINFORCED MASONRY SHEAR WALLS & PLYWOOD SHEATHED WOOD SHEAR WALLS
   $R = 5$; $\Omega_0 = 2.5$; $C_d = 3.5$
   $V = 0.104\ W$ [ASD]
4. WIND DESIGN DATA:
   BASIC WIND SPEED = 105 MPH
   RISK CATEGORY IV
   WIND EXPOSURE = D
   INTERNAL PRESSURE COEFFICIENT = +0.18, -0.18
   DESIGN WIND PRESSURE = 22.8 PSF [LRFD]
   WALL COMPONENTS AND CLADDING PRESSURE = +26.9, -36.0 PSF [LRFD]
   ROOF COMPONENTS AND CLADDING PRESSURE = +16.3, -111.2 PSF [LRFD]

   NOTE: COMPONENTS & CLADDING PRESSURES ABOVE ARE WORST CASE PRESSURES BASED ON 10 SF TRIBUTARY AREA AND MAY BE REDUCED PER ASCE 7. POSITIVE AND NEGATIVE PRESSURES SIGNIFY WIND ACTING TOWARD AND AWAY FROM SURFACES, RESPECTIVELY.
5. FOUNDATION DESIGN CRITERIA:
   BEARING PRESSURES:
   DL + LL 2,500 PSF
   TOTAL LOAD 3,350 PSF
6. SOLAR PANEL ALLOWANCE:
   THE DESIGN HAS ACCOUNTED FOR FUTURE SOLAR PANELS TO BE LOCATED ON THE ROOFS. HOWEVER A DESIGN OF THE SOLAR PANEL SUPPORT STRUCTURE IS NOT INCLUDED IN THIS CONTRACT.

   MAXIMUM SOLAR PANEL ALLOWANCE = 5 PSF

BID DOCUMENTS

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER DUSTIN G. LEE No. S5621 EXP. 3/31/27 STRUCTURAL STATE OF CALIFORNIA

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED PUBLICATION. RRM DESIGN GROUP RETAINS COPYRIGHT TO THESE.

RRM DESIGN GROUP COPYRIGHT 2022.
RRM IS A CALIFORNIA CORPORATION

CORNERSTONE structural engineering group
9 River Park Place East, Suite 330
Fresno, California 93720
559.320.3200
fax 559.320.3201

RIVERSTONE FIRE STATION

PROJECT STREET ADDRESS
CITY, STATE, ZIP CODE

MATERIALS SPECIFICATION AND PROJECT INFORMATION

NO.	REVISION	DATE

PROJECT MANAGER	DGL
DRAWN BY	MEW/DAA
CHECKED BY	DGL
DATE	MAY 4, 2026
PROJECT NUMBER	2021034
SHEET	S0.01

County of Madera – CFD Building Division Approved Under the 2022 California Building and Fire Safety Codes and Ordinances, not valid without signature Date 05/04/2026

4/29/2026 1:39:23 PM
W:\2021\2021034 Riverstone Fire Station\Revit 2025\Riverstone Fire Station_Structural - Const.rvt

TESTING AND SPECIAL INSPECTION

GENERAL

THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR DURING CONSTRUCTION ON THE FOLLOWING TYPES OF WORK.

SPECIAL INSPECTOR
- THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE HIS COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF A PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
- TESTING AND INSPECTIONS WILL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY SELECTED AND EMPLOYED BY THE OWNER AND APPROVED BY THE BUILDING OFFICIAL. PROCEDURAL AND ACCEPTANCE CRITERIA ARE SET FORTH IN THE 2019 CALIFORNIA BUILDING CODE (CBC) SEC. 1704.

DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR
- THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPLICABLE PROJECT DRAWINGS AND SPECIFICATIONS.
- THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE, THE ARCHITECT OR PROJECT MANAGER, THE STRUCTURAL ENGINEER OF RECORD, THE CONTRACTOR AND OTHER PERSONS DESIGNATED BY THE OWNER OR OWNER'S REPRESENTATIVE. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY AND TO THE BUILDING OFFICIAL.
- THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CBC.

SOILS & FOUNDATIONS

SOILS
- PERIODICALLY INSPECT MATERIALS BELOW FOOTING FOR BEARING CAPACITY.
- PERIODICALLY INSPECT EXCAVATIONS FOR PROPER DEPTH.
- PERIODICALLY PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.
- CONTINUOUSLY VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.
- PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY SITE HAS BEEN PREPARED PROPERLY.

FOUNDATIONS

PRIOR TO THE CONTRACTOR REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, THE SOILS ENGINEER SHALL ADVISE THE BUILDING DEPARTMENT OF THE FOLLOWING IN WRITING:
- THAT THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOILS REPORT.
- THAT THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED.
- THAT THE FOUNDATION COMPLY WITH THE SOILS REPORT AND THE APPROVED PLANS.
- ALL EARTHWORK SHALL BE PERFORMED IN COMPLIANCE WITH THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL ENGINEERING INVESTIGATION REPORT PREPARED BY KRAZAN & ASSOCIATES, INC. DATED JUNE 22, 2022 (KA PROJECT NO. 012-22085).

CONCRETE & REINFORCING

REINFORCING STEEL
- VERIFY THAT MILL CERTIFICATES SHOW REINFORCING STEEL IS IN COMPLIANCE WITH PROJECT SPECIFICATIONS.
- TAKE A 5' LONG SAMPLE OF EACH BAR SIZE FROM EACH HEAT FOR EACH TYPE OF REINFORCING STEEL SHALL BE TESTED FOR ULTIMATE STRENGTH, YIELD STRESS, MODULUS OF ELASTICITY AND PERCENT ELONGATION AT RUPTURE.
- PERIODICALLY INSPECT THE PLACEMENT OF REINFORCING STEEL FOR SHOTCRETE, FOR CONCRETE WHICH IS REQUIRED TO HAVE CONTINUOUS INSPECTION AND FOR MASONRY.
- CONTINUOUSLY INSPECT THE INSTALLATION OF ALL MECHANICAL COUPLING DEVICES.

BOLTS INSTALLED IN CONCRETE
- PERIODICALLY INSPECT INSTALLATION OF BOLTS AND CONTINUOUSLY INSPECT PLACEMENT OF CONCRETE AROUND SUCH BOLTS.

CONCRETE
- CONTINUOUSLY INSPECT THE PLACEMENT OF ALL CONCRETE EXCEPT PERIODIC INSPECTION MAY BE PROVIDED FOR THE PLACEMENT OF CONCRETE FOR FOUNDATIONS WITH f'c EQUAL TO 2500 PSI OR LESS AND NON-STRUCTURAL SLABS ON GRADE.
- SAMPLE CONCRETE; ASTM C172, EXCEPT SLUMP SHALL COMPLY WITH ASTM C94.
- TEST SLUMP: ASTM C143, ONE TEST AT POINT OF TRUCK DISCHARGE FOR 150 CY OR FRACTION THEREOF FOR EACH TYPE OF CONCRETE; ADDITIONAL TESTS REQUIRED WHEN CONCRETE CONSISTENCY SEEMS TO HAVE CHANGED.
- TEST AIR CONTENT: ASTM C173, VOLUMETRIC METHOD FOR LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE, ONE FOR EACH 150 CY PLACED OR FRACTION THEREOF FOR EACH TYPE OF AIR-ENTRAINED CONCRETE.
- TEST CONCRETE TEMPERATURE: TEST HOURLY WHEN AIR TEMPERATURE IS 50 DEGREES F. (10 DEGREES C.) AND BELOW, AND WHEN 85 DEGREES F. (29 DEGREES C.) AND ABOVE; AND EACH TIME A SET OF COMPRESSION TEST SPECIMENS ARE MADE.
- TAKE COMPRESSION TEST SPECIMENS: ASTM C31, TAKE ONE SET OF 3 STANDARD CYLINDERS FOR EACH 150 CY OF CONCRETE OR 5000 SQ. FT. OF SLABS & WALLS OR FRACTION THEREOF FOR EACH TYPE OF CONCRETE TAKEN EACH DAY. MOLD AND STORE CYLINDERS FOR LABORATORY CURED TEST SPECIMENS EXCEPT WHEN FIELD-CURE TEST SPECIMENS ARE REQUIRED.
- TAKE FIELD CURED COMPRESSION TEST SPECIMENS: ASTM C31, TAKE ONE SET OF 3 STANDARD CYLINDERS FOR EACH 150 CY OF CONCRETE OR 5000 SQ. FT. OF SLABS & WALLS OR FRACTION THEREOF FOR EACH TYPE OF CONCRETE PLACED EACH DAY; WHEN THE CONTRACTOR PLANS TO REMOVE FORM WORK, FALSE WORK OR SHORING SOONER THAN 7 DAYS FOR VERTICAL FORM WORK AND 14 DAYS FOR SHORING AND FALSE WORK; OR WHEN POST-TENSIONING IS REQUIRED.
- TEST COMPRESSIVE STRENGTH: ASTM C39; ONE SPECIMEN TESTED AT 7 DAYS, TWO SPECIMENS TESTED AT 28 DAYS.
- TEST DRYING SHRINKAGE: ASTM C157, TAKE 1 SET OF 3 DRYING SHRINKAGE SAMPLES FOR EACH DAY'S POUR OF SLABS ON GRADE, SUSPENDED SLABS, AND POST-TENSIONED CONCRETE SLABS.

NON-SHRINK GROUT
- TAKE TEST SPECIMENS AND CONTINUOUSLY INSPECT THE PLACEMENT OF NON-SHRINK GROUT.

MASONRY

STRUCTURAL MASONRY (LEVEL C INSPECTION)
- VERIFY THAT LETTERS OF CERTIFICATION FOR UNITS AND GROUT ARE IN COMPLIANCE WITH THE PROJECT SPECIFICATIONS AND PROJECT SUBMITTALS.
- PERIODICALLY INSPECT THE PLACING CONCRETE MASONRY UNITS, PROPORTIONS OF SITE-PREPARED MORTAR, CONSTRUCTION OF MORTAR JOINTS, AND LOCATION OF REINFORCEMENT.
- PERIODICALLY INSPECT SIZE OF STRUCTURAL ELEMENTS AND REINFORCEMENT SIZE, GRADE AND TYPE.
- CONTINUOUSLY INSPECT INSTALLATION OF ANCHOR ASSEMBLIES.
- PRIOR TO GROUTING, VERIFY GROUT SPACE IS CLEAN.
- CONTINUOUSLY INSPECT GROUT PLACEMENT.
- TEST GROUT TEMPERATURE HOURLY WHEN AIR TEMPERATURE IS 40 DEGREES F. AND BELOW, AND WHEN 90 DEGREES F. AND ABOVE.
- CONTINUOUSLY INSPECT PREPARATION OF REQUIRED PRISMS.
- TEST 3 PRISMS FOR EACH 5000 SQUARE FEET OF WALL.

POST INSTALLED ANCHORS

POST-INSTALLED ANCHORS
- THE SPECIAL INSPECTOR SHALL VERIFY THE INSPECTION REQUIREMENTS WITH THE ICC REPORT FOR EACH ANCHOR TYPE.
- THE SPECIAL INSPECTOR SHALL VERIFY THE INITIAL INSTALLATIONS OF EACH TYPE AND SIZE OF ANCHOR BY CONSTRUCTION PERSONNEL.
- PERIODICALLY INSPECT PLACEMENT OF POST-INSTALLED ANCHORS.
- CONTINUOUSLY INSPECT PLACEMENT OF OVERHEAD (VERTICAL UP) POST-INSTALLED ANCHORS.
- THE SPECIAL INSPECTOR SHALL VERIFY THE FOLLOWING AND RECORD THE INSTALLATION IN THE INSPECTION REPORT:
  1. ANCHOR TYPE, SIZE, AND DIMENSIONS.
  2. HOLE DIMENSIONS AND CLEANLINESS.
  3. ANCHOR SPACING.
  4. EDGE DISTANCE.
  5. ANCHOR EMBEDMENT.
  6. TORQUE VALUE (AS APPLICABLE).
  7. ADHESIVE TYPE AND EXPIRATION (AS APPLICABLE).
  8. ADHESIVE ANCHOR INSTALLER CERTIFICATION (AS APPLICABLE).

STRUCTURAL STEEL

STRUCTURAL STEEL AND MISCELLANEOUS IRON
- VERIFY THAT MILL CERTIFICATES SHOW STRUCTURAL STEEL AND MISCELLANEOUS IRON IS IN COMPLIANCE WITH PROJECT SPECIFICATIONS.

THREADED ROD COUPLERS
- INSPECT SPLICING OF THREADED RODS
- INSPECT BAR THREAD QUALITY

WELDING
- VERIFY WELDER CERTIFICATIONS, COMPLIANCE WITH WELDING PROCEDURE SPECIFICATIONS AND PQR (IF APPLICABLE).
- CONTINUOUSLY INSPECT ALL STRUCTURAL WELDING, INCLUDING WELDING OF REINFORCING STEEL.

EXCEPTIONS:
- SINGLE PASS FILLET WELDS NOT EXCEEDING 5/16" MAY HAVE PERIODIC INSPECTION.
- FLOOR AND ROOF DECK WELDING MAY HAVE PERIODIC INSPECTION.
- WELDED STUDS USED FOR DIAPHRAGM OR COMPOSITE CONSTRUCTION MAY HAVE PERIODIC INSPECTION.
- WELDED SHEET STEEL FOR COLD FORMED STEEL FRAMING MAY HAVE PERIODIC INSPECTION.
- WELDED STAIRS AND RAILING SYSTEMS MAY HAVE PERIODIC INSPECTION.

NONDESTRUCTIVE TESTING:
- MAGNETIC PARTICLE TESTING OF 100% OF WEBS WHERE WELDING OF PLATES HAS OCCURRED IN THE K-AREA.
- ULTRASONIC TESTING OF 100% OF COMPLETE JOINT PENETRATION GROOVE WELDS ON MATERIALS 5/16" THICK AND GREATER.
- MAGNETIC PARTICLE TESTING OF 25% OF COMPLETE JOINT PENETRATION GROOVE WELDS OF BEAM TO COLUMN JOINTS.
- ULTRASONIC TESTING OF 100% OF COMPLETE JOINT PENETRATION GROOVE WELDS ON TEE AND CORNER JOINTS WHERE MATERIAL THICKER THAN 3/4" IS CONNECTED TO BASE METAL THICKER THAN 1-1/2".

EXCEPTION:
- THE RATE OF TESTING FOR ULTRASONIC WELDS MAY BE REDUCED TO 25% IF THE FAILURE RATE MEETS THE REQUIREMENTS OF AISC 341 APPENDIX Q.

AUTOMATIC END – WELDED STUDS
- THE SPECIAL INSPECTOR SHALL VERIFY THE FOLLOWING WITH THE MANUFACTURER'S RECOMMENDATIONS AND PROJECT SPECIFICATIONS. RECORD THE INSTALLATION IN THE INSPECTION REPORT:

1. STUD TYPE, SIZE, AND CLEARANCES TO EDGES AND ADJACENT STUDS.
2. TYPE OF WELDING EQUIPMENT.
3. WELDER'S QUALIFICATIONS.
4. WELDING PROCEDURE.
5. WELD JOINT PREPARATION.

- PERIODICALLY INSPECT INSTALLATION OF STUDS.
- TEST STUDS PER THE REQUIREMENTS OF AWS D1.1, AISC 360, AND THE STUD'S ICC REPORT. PERFORM TORQUE TEST FOR TYPE A STUDS AND BEND TESTS FOR TYPE B STUDS.
- TEST STUDS WITH THE FOLLOWING FREQUENCY:

1. AT THE BEGINNING OF EACH DAY'S WORK, A MINIMUM OF TWO TEST STUD WELDS SHALL BE MADE WITH THE EQUIPMENT TO BE USED TO METAL WHICH IS THE SAME AS ACTUAL WORK PIECE.
2. AT ANY CHANGE IN WELDING SETUP OR PERSONNEL, RETEST TWO STUDS PRIOR TO PRODUCTION WORK.

WOOD FRAMING

PLYWOOD DIAPHRAGMS & SHEARWALLS
- PERIODICALLY INSPECT INSTALLATION OF ANY DIAPHRAGMS & SHEARWALLS, PORTION REQUIRING TWO ROW OR THREE ROW NAILING/STAPLING, OR NAILING/STAPLING @ 4" OC OR LESS, INCLUDING NAILING OF PLYWOOD, BOLTING OF ANCHORS & HOLDOWNS, & NAILING OF STRAPS.

ABBREVIATIONS

ABBREVIATIONS

@	AT
ø	DIAMETER
#	NUMBER
AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
ALT	ALTERNATE
APPROX	APPROXIMATE(LY)
ARCH	ARCHITECT(URAL)
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BN	BOUNDARY NAILING
BOF	BOTTOM OF FOOTING
BOT	BOTTOM
BVC	BEGIN VERTICAL CURVE
C-C	CENTER TO CENTER
CL	CENTERLINE
CF	CUBIC FOOT
CIDH	CAST IN DRILLED HOLE
CIP	CAST IRON PIPE
CJ	CONSTRUCTION JOINT
CJP	COMPLETE JOINT PENETRATION
CLG	CEILING
CLR	CLEAR, CLEARANCE
CMP	CORRUGATED STEEL PIPE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CSK	COUNTERSINK
CY	CUBIC YARD
DBL	DOUBLE
DCW	DEMAND CRITICAL WELD
DET	DETAIL
DF	DOUGLAS FIR
DIAG	DIAGONAL
Ø	DIAMETER
DIST	DISTANCE
DL	DEAD LOAD
DN	DOWN
DO	DITTO
DWG	DRAWING
(E)	EXISTING
EA	EACH
EC	END HORIZONTAL CURVE
ECR	END CURB RETURN
EL	ELEVATION
ELEV	ELEVATOR
EMB	EMBANKMENT
EN	EDGE NAILING
EQ	EQUAL
EVC	END VERTICAL CURVE
EW	EACH WAY
EXIST	EXISTING
EXP	EXPRESSWAY
FBC	FRAMED BEAM CONNECTION
FG	FINISHED GRADE
FIN	FINISH(ED)
FL	FLOW LINE
FND	FOUNDATION
FOC	FACE OF CONCRETE
FOHC	FREE OF HEART CENTER
FOM	FACE OF MASONRY
FOS	FACE OF STUD(S)
FP	FULL PENETRATION
FS	FAR SIDE
FTG	FOOTING
Ga	GAUGE
GALV	GALVANIZED
GLB	GLUE LAMINATED BEAM
H or HT	HEIGHT
HDR	HEADER
HEX	HEXAGONAL
HGR	HANGER
HORIZ	HORIZONTAL
HS	HIGH STRENGTH
HSB	HIGH STRENGTH BOLT
HSS	HOLLOW STRUCTURAL SECTION
ID	INSIDE DIAMETER
INSP	INSPECTION/INSPECTOR
INSUL	INSULATION
JT	JOINT
KIPS	ONE THOUSAND POUNDS
LBS	POUNDS
LF	LINEAR FOOT
LGS	LIGHT GAUGE STEEL
LL	LIVE LOAD
LLBB	LONG LEGS BACK TO BACK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATION
LOL	LAYOUT LINE
LONGIT	LONGITUDINAL
LS	LAG SCREW(S)
LT	LEFT
LW	LIGHT WEIGHT
MAX	MAXIMUM
MB	MACHINE BOLT(S)
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM, MINUTES
MISC	MISCELLANEOUS
MOD	MODIFIED OR MODIFY
(N)	NEW
NIC	NOT IN CONTRACT
No.	NUMBER
Ø	NOMINAL DIAMETER
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
O.C.	ON CENTER
OD	OUTSIDE DIAMETER
OG	ORIGINAL GROUND
OH	OPPOSITE HAND
OPP	OPPOSITE
OWSJ	OPEN WEB STEEL JOIST
PL	STEEL PLATE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE OR PORTLAND CEMENT CONCRETE
PCP	PERFORATED CONCRETE PIPE
PCVC	POINT OF COMPOUND VERTICAL CURVE
PDF	POWDER DRIVEN FASTENER
PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PJP	PARTIAL JOINT PENETRATION
P/L	PROPERTY LINE
PL	PLATE
PLY	PLYWOOD
POC	POINT ON HORIZONTAL CURVE
POT	POINT ON TANGENT
POVC	POINT ON VERTICAL CURVE
PRC	POINT OF REVERSE CURVE
PRVC	POINT OF REVERSE VERTICAL CURVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT OR POST TENSION
PTDF	PRESSURE TREATED DOUGLAS FIR
PVC	POLYVINYL CHLORIDE
RAD or R	RADIUS
RCP	REINFORCED CONCRETE PIPE
REINF	REINFORCED, REINFORCING
REQ'D	REQUIRED
REV	REVISION
RS	ROUGH SAWN
RT	RIGHT
RW	RETAINING WALL
RWD	REDWOOD
R/W	RIGHT OF WAY
SAD	SEE ARCHITECTURAL DRAWINGS
SCHED	SCHEDULE
SEC	SECTION
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SLRS	SEISMIC LOAD RESISTING SYSTEM
SM	SHEET STEEL
SMS	SHEET STEEL SCREW
SPEC(S)	SPECIFICATION(S)
SQ	SQUARE
SQFT	SQUARE FOOT
SQYD	SQUARE YARD
STAG	STAGGERED
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
STS	SELF TAPPING SCREW
SYM	SYMMETRICAL
T&G	TONGUE AND GROOVE
TBR	TO BE REMOVED
TEMP	TEMPORARY
TO	TOP OF
TOF	TOP OF FOOTING
TOP	TOP OF PLATE
TOS	TOP OF SLAB OR STEEL
TOW	TOP OF WALL
TRANS	TRANSVERSE
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VC	VERTICAL CURVE
VERT	VERTICAL
W/	WITH
WF	WIDE FLANGE
WP	WATERPROOF or WORKPOINT
WT	WEIGHT
WWF	WELDED WIRE FABRIC

STRUCTURAL OBSERVATION

REQUIRED OBSERVATION BY THE STRUCTURAL ENGINEER OF RECORD
1. FOUNDATION REINFORCING.
2. CMU CONSTRUCTION PRIOR TO GROUTING.
3. ROUGH FRAMING, TRUSSES AND JOISTS.
4. PLYWOOD SHEATHING AND NAILING.

CONTRACTOR SHALL NOTIFY ENGINEER A MINIMUM OF 2 WORKING DAYS PRIOR TO THE TIME WHEN HIS PRESENCE IS REQUIRED. PLEASE NOTE THAT THESE OBSERVATIONS ARE INDEPENDENT OF INSPECTIONS REQUIRED BY THE BUILDING DEPARTMENT.

GENERAL NOTES

1. CONSIDER GENERAL NOTES AS APPLYING TO ALL DRAWINGS.
2. DO NOT SCALE DRAWINGS. SCALE SHOWN FOR REFERENCE ONLY.
3. THE CONTRACTOR SHALL REFER TO THE PROJECT SPECIFICATIONS IN CONJUNCTION WITH THE STRUCTURAL DRAWINGS.
4. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE STRUCTURAL WORK WITH THE ARCHITECTURAL, CIVIL, AND MEP CONTRACT DOCUMENTS, AS WELL AS ANY OTHER APPLICABLE TRADES. OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES, AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND RESOLVED PRIOR TO BIDDING AND PROCEEDING WITH THE WORK.
5. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND REMOVAL OF TEMPORARY BRACING AND CONSTRUCTION SUPPORTS REQUIRED TO COMPLETE THE PROJECT. NO PORTION OF THE STRUCTURE SHALL BE CONSIDERED TO BE SELF SUPPORTING UNTIL THE ENTIRE VERTICAL AND LATERAL LOAD RESISTING SYSTEM IS IN PLACE.
6. THE CONTRACTOR SHALL PROTECT AND SHORE ALL EXCAVATIONS WITH BRACING AND SHORING AS REQUIRED TO MAINTAIN SOIL STABILITY.
7. CONSTRUCT THOSE FEATURES OF THE PROJECT, WHICH MAY NOT BE FULLY SHOWN, IN MANNER SIMILAR TO THAT USED FOR SIMILAR FEATURES.
8. CENTERLINES OF COLUMNS AND FOUNDATIONS COINCIDE WITH GRID LINE INTERSECTIONS, U.N.O.
9. CENTERLINES OF FOUNDATION GRADE BEAMS COINCIDE WITH CENTERLINES OF WALLS, U.N.O.
10. CENTERLINES OF FRAMING MEMBERS COINCIDE WITH COLUMN CENTERLINES, U.N.O.
11. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING PROPOSED FOUNDATION CONSTRUCTION JOINT LOCATIONS, DETAILS, AND THE PLACEMENT SEQUENCE FOR THE STRUCTURAL ENGINEER'S APPROVAL PRIOR TO PROCEEDING WITH WORK.
12. NO CONSTRUCTION JOINTS WILL BE PERMITTED IN BEAMS, WALLS, AND SLABS UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
13. SPLICES SHALL BE ALLOWED ONLY AT LOCATIONS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS UNLESS APPROVED OTHERWISE BY THE ENGINEER.
14. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS. VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS. NOTIFY STRUCTURAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES TYPICAL, U.N.O.

BID DOCUMENTS

4/29/2026 1:39:23 PM
W:\2021\2021034 Riverstone Fire Station\Revit 2025\Riverstone Fire Station_Structural - Const.rvt

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER — DUSTIN G. LEE — No. S9621 — EXP. 3/31/27 — STRUCTURAL — STATE OF CALIFORNIA

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OR THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED PUBLICATION OF THESE DRAWINGS. COPYRIGHT PROTECTION
RRM DESIGN GROUP COPYRIGHT 2022.
RRM IS A CALIFORNIA CORPORATION

CORNERSTONE structural engineering group
9 River Park Place East, Suite 330
Fresno, California 93720
559.320.3200
fax 559.320.3201

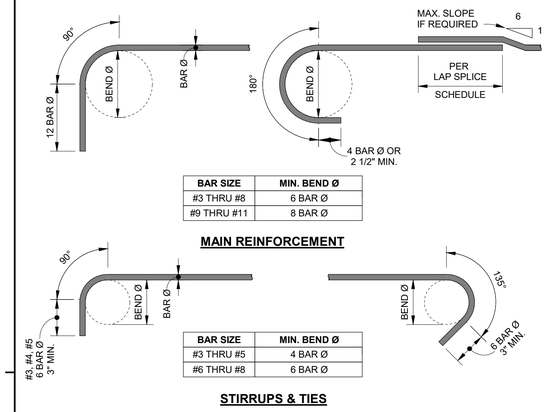
RIVERSTONE FIRE STATION
PROJECT STREET ADDRESS
CITY, STATE, ZIP CODE

TESTING AND SPECIAL INSPECTIONS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: DGL
DRAWN BY: MEW/DAA
CHECKED BY: DGL
DATE: MAY 4 2026
PROJECT NUMBER: 2021034
SHEET: S0.02

Building Division, City of Madera – CBD building and Fire Safety Approved subject to compliance with all applicable Codes and Ordinances, and field inspection. Approval of this plan does not authorize violation of any Codes and Ordinances. Valid only when signed and dated by Building Official. Approval is void if plans are altered without approval. Date: 05/04/2026



BAR SIZE	MIN. BEND Ø
#3 THRU #8	6 BAR Ø
#9 THRU #11	8 BAR Ø

MAIN REINFORCEMENT

BAR SIZE	MIN. BEND Ø
#3 THRU #5	4 BAR Ø
#6 THRU #8	6 BAR Ø

STIRRUPS & TIES

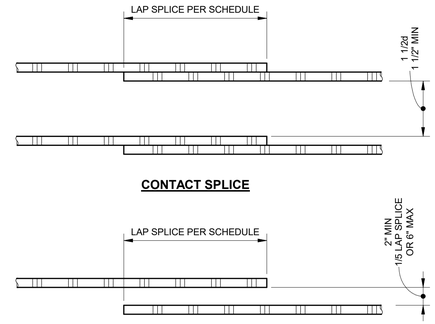
REINFORCING BAR HOOKS

NO SCALE

1 S1.01

MINIMUM LAP SPLICE SCHEDULE			
BAR SIZE	POSITION	LAP SPLICE LENGTH IN INCHES F'c ≥ 3500 PSI	
		CLASS A	CLASS B
#3	TOP	24	28
	BOTTOM	24	24
#4	TOP	29	38
	BOTTOM	24	29
#5	TOP	36	47
	BOTTOM	28	36
#6	TOP	43	56
	BOTTOM	33	43
#7	TOP	63	81
	BOTTOM	48	63
#8	TOP	72	93
	BOTTOM	55	72
#9	TOP	81	105
	BOTTOM	62	81
#10	TOP	91	118
	BOTTOM	70	91
#11	TOP	101	131
	BOTTOM	78	101

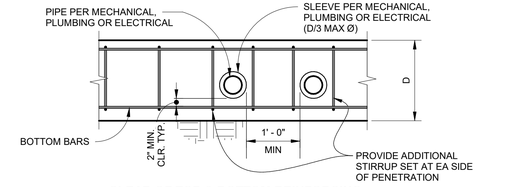
NOTES:
1. LAP SPLICE LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
2. LAP SPLICES SHALL BE CONTACT (CLASS B) FOR CAST-IN-PLACE CONCRETE UNLESS NOTED OTHERWISE.
3. TOP BARS ARE HORIZONTAL BARS WITH 12 INCHES OR MORE OF FRESH CONCRETE BELOW THE BAR.
4. WHEN TWO BARS OF DIFFERENT SIZE ARE SPLICED, USE THE LARGER LAP LENGTH.
5. STAGGER LAP SPLICES WHERE POSSIBLE. WHERE CLASS A SPLICES ARE CALLED OUT ON THE DRAWINGS, STAGGER LAP SPLICES 24 INCHES FOR ADJACENT BARS.
6. LAP SPLICES NOTED ARE FOR NORMAL WEIGHT CONCRETE. LAP SPLICE LENGTHS SHALL BE MULTIPLIED BY 1.3 FOR LIGHTWEIGHT CONCRETE.
7. NO SPLICES ARE ALLOWED FOR #14 AND #18 REINFORCEMENT.
8. BAR DEVELOPMENT LENGTHS EQUAL CLASS A LAP SPLICE LENGTHS.
9. ENTIRE BUNDLED BARS SHALL NOT BE LAP SPLICED. LAP SPLICES OF INDIVIDUAL BARS WITHIN THE BUNDLE SHALL NOT OVERLAP.
10. AT CONTRACTOR'S OPTION, MECHANICAL COUPLERS MAY BE SUBSTITUTED FOR LAP SPLICES. MECHANICAL COUPLERS SHALL HAVE AN ICC REPORT AND SHALL DEVELOP 125% OF THE YIELD STRENGTH OF THE BAR.
11. LAP SPLICES OF REINFORCING BARS IN SHOTCRETE SHALL UTILIZE THE NONCONTACT LAP SPLICE METHOD WITH A MINIMUM CLEARANCE OF 2 INCHES BETWEEN BARS. THE USE OF CONTACT LAP SLICES NECESSARY FOR SUPPORT OF THE REINFORCING IS PERMITTED WHEN APPROVED BY THE BUILDING OFFICIAL.



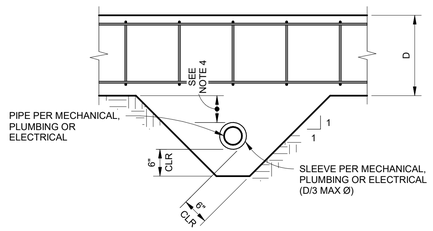
LAP SPLICE SCHEDULE FOR CONCRETE

NO SCALE

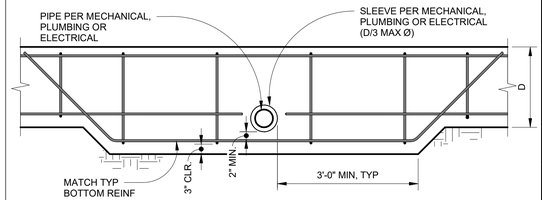
2 S1.01



CLEAR OF TOP & BOTTOM REINFORCING



BELOW BOTTOM REINFORCING



AT BOTTOM REINFORCING

NOTES:
1. SLEEVE ID 2" LARGER THAN PIPE OD OR BELL OD.
2. SEAL VOID BETWEEN PIPE AND SLEEVE WITH ELASTIC WATERPROOF MATERIAL, TYP.
3. DETAIL APPLICABLE TO MAXIMUM 8"∅ SLEEVE.
4. NO FTG EXTENSION REQ'D FOR PIPE DEEPER THAN 12" BELOW FTG (SLEEVE STILL REQ'D).
5. WHERE PENETRATION CONFLICTS WITH REBAR TIE, OMIT TIE & PROVIDE 1 ADDITIONAL TIE EACH SIDE OF SLEEVE.

FOOTING PENETRATIONS

NO SCALE

6 S1.01

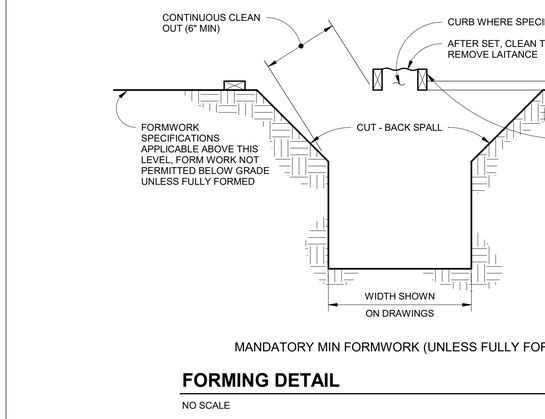
MINIMUM CONCRETE COVER SCHEDULE	
ELEMENT	CLEAR COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER: #5 AND SMALLER #6 AND LARGER	1 1/2" 2"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS & JOISTS: #11 AND SMALLER #14 AND #18 BEAMS & COLUMNS PRIMARY REINFORCEMENT, TIES, STIRRUPS, & SPIRALS SHELLS & FOLDED PLATE MEMBERS #5 AND SMALLER #6 AND LARGER	 3/4" 1 1/2" 1 1/2" 1/2" 3/4"

NOTES:
1. COVERS NOTED SHALL BE USED UNLESS NOTED OTHERWISE ON THE CONTRACT DOCUMENTS.
2. COVERS NOTED ARE FOR CAST-IN-PLACE, NON-PRESTRESSED MEMBERS.
3. MINIMUM CLEAR COVER FOR BUNDLED BARS SHALL BE THE LESSER OF THE EQUIVALENT DIAMETER OF THE BUNDLE AND 2".

MINIMUM CONCRETE COVER SCHEDULE

NO SCALE

3 S1.01



EXCAVATION PARALLEL TO FTG

NO SCALE

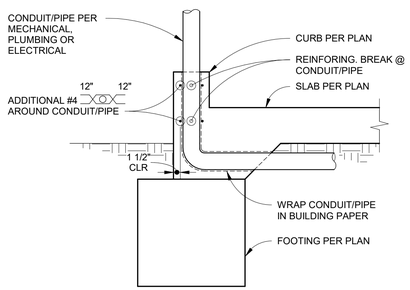
4 S1.01

NOTES:
1. d = BAR DIAMETER.
2. TYPICAL BAR HOOKS & BENDS FOR MINIMUM HOOK DIMENSIONS.
3. VERTICAL REINFORCING NOT SHOWN.
4. AT CONTRACTOR'S OPTION, CORNER REINFORCING MAY BE MODIFIED THUSLY:

FOOTING, WALL & CURB INTERSECTIONS

NO SCALE

5 S1.01



CURB PENETRATION

NO SCALE

7 S1.01

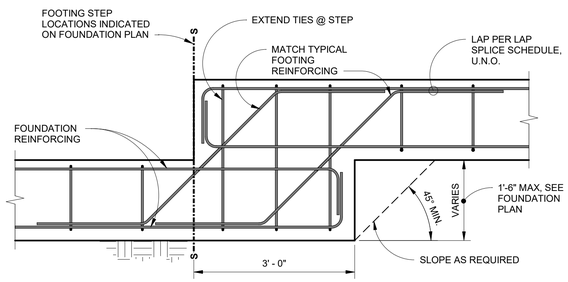
FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE SOILS ENGINEER.

MANDATORY MIN FORMWORK (UNLESS FULLY FORMED)

FORMING DETAIL

NO SCALE

8 S1.01



FOOTING STEP

3/4" = 1'-0"

9 S1.01

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER DUSTIN G. LEE No. 33621 EXP. 3/31/27 STRUCTURAL STATE OF CALIFORNIA

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED PUBLICATION OF RRM DESIGN GROUP COPYRIGHT.
RRM DESIGN GROUP COPYRIGHT 2022.
RRM IS A CALIFORNIA CORPORATION

CORNERSTONE structural engineering group
9 River Park Place East, Suite 330
Fresno, California 93720
559.320.3200
fax 559.320.3201

RIVERSTONE FIRE STATION

PROJECT STREET ADDRESS
CITY, STATE, ZIP CODE

TYPICAL DETAILS No.1

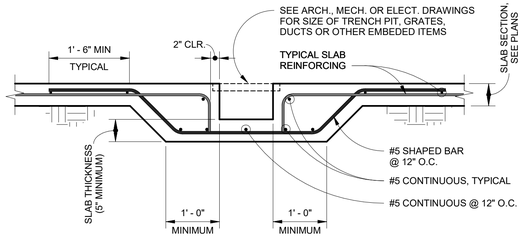
BID DOCUMENTS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: DGL
DRAWN BY: MEW/DAA
CHECKED BY: DGL
DATE: MAY 4, 2026
PROJECT NUMBER: 2021034
SHEET: S1.01

County of Madera – CBD Building and Fire Safety Division
Plans Approved Under the 2022 California Building Code
Date: 05/04/2026
Plans and Engineering must not be used without signature

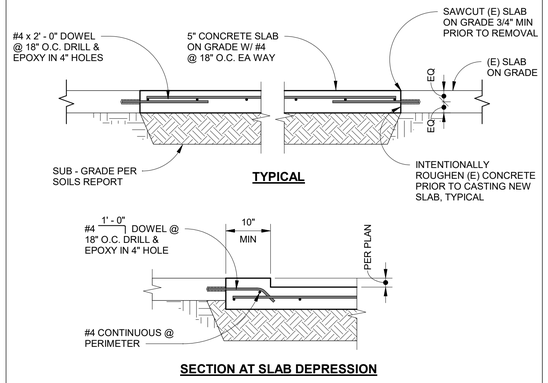
4/29/2026 1:39:24 PM
W:\2021\2021034 Riverstone Fire Station\Revit 2025\Riverstone Fire Station_Structural - Const.rvt



SLAB TRENCH / PIT

NO SCALE

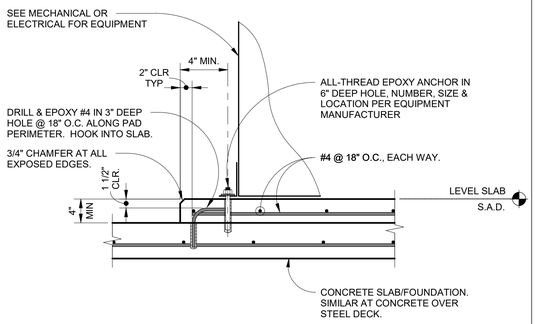
1 / S1.02



SLAB INFILL

NO SCALE

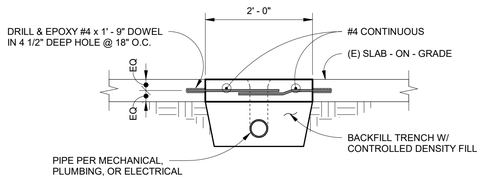
2 / S1.02



HOUSEKEEPING PAD

NO SCALE

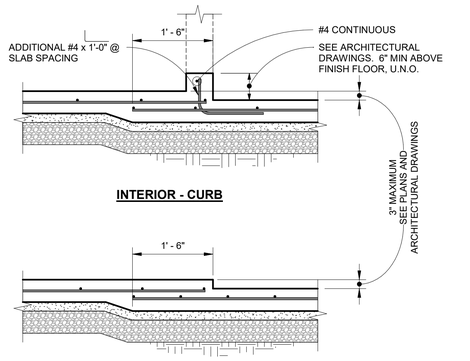
3 / S1.02



SLAB TRENCH INFILL

NO SCALE

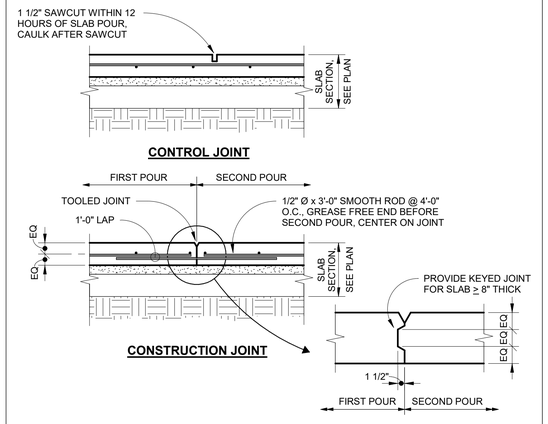
4 / S1.02



SLAB DEPRESSION

3/4" = 1'-0"

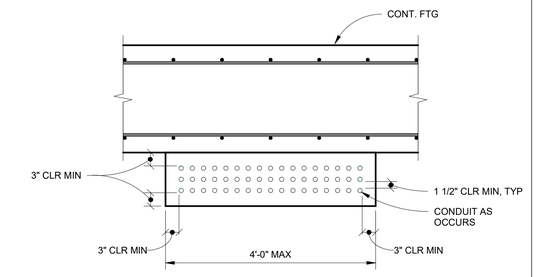
5 / S1.02



SLAB JOINT

3/4" = 1'-0"

6 / S1.02

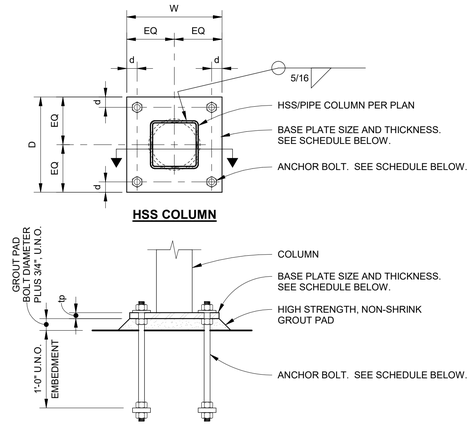


NOTE:
1. CONDUIT IS NOT PERMITTED TO RUN UNDER COLUMN FOOTINGS
2. IF UTILITY TRENCH IS POURED AFTER FOOTING, FILL TRENCH WITH CONCRETE SLURRY (f'_c = 1500 PSI).

CONDUITS UNDER FOOTING

3/4" = 1'-0"

7 / S1.02



STEEL COLUMN PLATE SCHEDULE (2)

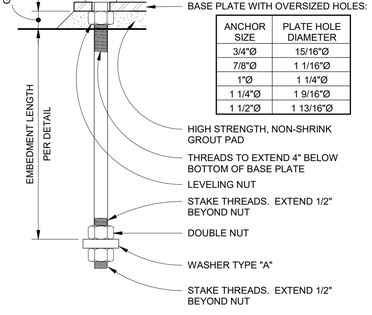
COLUMN	BASE PLATE					ANCHOR BOLT (1)
	D	W	tp	d	GRADE	
HSS4x	10"	10"	3/4"	1 1/2"	A36 (36KSI)	(4) 3/4"Ø
HSS5x	11"	11"	3/4"	1 1/2"	A36 (36KSI)	(4) 3/4"Ø

NOTES:
1. FOR ADDITIONAL ANCHOR BOLT REQUIRMENTS, SEE DETAIL 9 / S1.02
2. ALL BASE PLATE SHALL CONFORM TO THESE REQUIREMENTS UNLESS OTHERWISE NOTED.

BASE PLATE DETAIL

NO SCALE

8 / S1.02



ANCHOR SIZE	PLATE HOLE DIAMETER
3/4"Ø	15/16"Ø
7/8"Ø	1 1/16"Ø
1"Ø	1 1/4"Ø
1 1/4"Ø	1 9/16"Ø
1 1/2"Ø	1 13/16"Ø

ANCHOR ROD		WASHER [1]		HEX NUT	GROUT PAD THICKNESS
SIZE	MATERIAL	TYPE	SIZE		
3/4"Ø	F1554 GRADE 36	A	3"x1/2"x0'-3" PLATE W/ 13/16"Ø HOLE CENTERED	ASTM A563	1.5"
		B (2)	2"x1/4" PLATE* W/ 13/16"Ø HOLE CENTERED		
7/8"Ø	F1554 GRADE 36	A	3"x3/4"x0'-3" PLATE W/ 15/16"Ø HOLE CENTERED	ASTM A563	1.5"
		B (2)	2 1/2"x5/16" PLATE* W/ 15/16"Ø HOLE CENTERED		
1"Ø	F1554 GRADE 36	A	3"x3/4"x0'-3" PLATE W/ 1 1/16"Ø HOLE CENTERED	ASTM A563	1.5"
		B (2)	3"x3/8" PLATE* W/ 1 1/16"Ø HOLE CENTERED		

1. CIRCULAR OR SQUARE WASHERS MEETING THE WASHER SIZE ARE ACCEPTABLE.

ANCHOR BOLT

1 1/2" = 1'-0"

9 / S1.02

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER DUSTIN G. LEE No. 33631 EXP. 3/31/27 STRUCTURAL STATE OF CALIFORNIA

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED A PUBLICATION OR RRM CONSENT TO COPY.
RRM DESIGN GROUP COPYRIGHT 2022.
RRM IS A CALIFORNIA CORPORATION

CORNERSTONE structural engineering group
9 River Park Place East, Suite 330
Fresno, California 93720
559.320.3200
fax 559.320.3201

RIVERSTONE FIRE STATION

PROJECT STREET ADDRESS
CITY, STATE, ZIP CODE

TYPICAL DETAILS No. 2

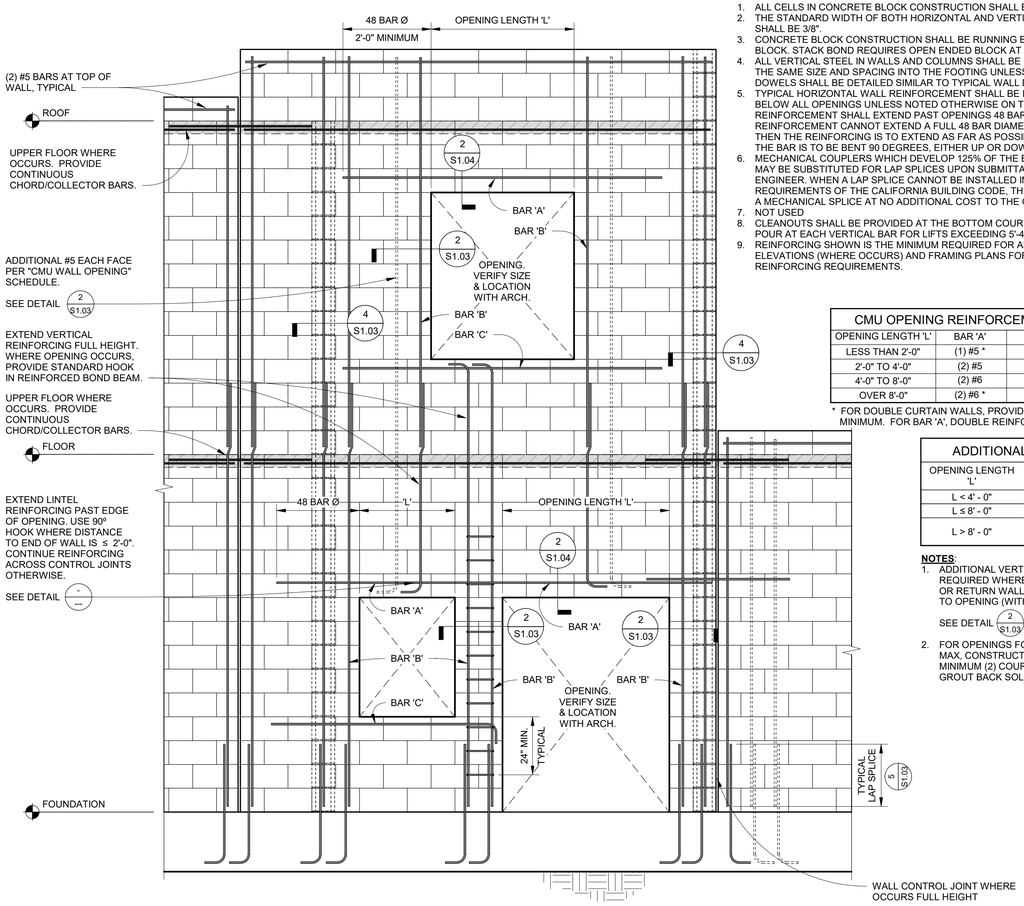
NO.	REVISION	DATE

PROJECT MANAGER: DGL
DRAWN BY: MEW/DAA | CHECKED BY: DGL
DATE: MAY 4, 2026
PROJECT NUMBER: 2021034
SHEET: S1.02

BID DOCUMENTS

County of Madera – CDD Building Division Approved Under the 2022 California Building Code

4/29/2026 1:39:24 PM
W:\2021\2021034 Riverstone Fire Station\Revit 2025\Riverstone Fire Station_Structural - Const.rvt



WALL ELEVATION

NO SCALE

1 S1.03

REINFORCED STRUCTURAL MASONRY NOTES:

1. ALL CELLS IN CONCRETE BLOCK CONSTRUCTION SHALL BE FULLY GROUTED, UNO
2. THE STANDARD WIDTH OF BOTH HORIZONTAL AND VERTICAL MORTAR JOINTS SHALL BE 3/8".
3. CONCRETE BLOCK CONSTRUCTION SHALL BE RUNNING BOND WITH OPEN ENDED BLOCK. STACK BOND REQUIRES OPEN ENDED BLOCK AT ALL BOND BEAM UNITS.
4. ALL VERTICAL STEEL IN WALLS AND COLUMNS SHALL BE LAPPED WITH DOWELS OF THE SAME SIZE AND SPACING INTO THE FOOTING UNLESS NOTED OTHERWISE. DOWELS SHALL BE DETAILED SIMILAR TO TYPICAL WALL DOWELS.
5. TYPICAL HORIZONTAL WALL REINFORCEMENT SHALL BE INSTALLED ABOVE AND BELOW ALL OPENINGS UNLESS NOTED OTHERWISE ON THE DRAWINGS. REINFORCEMENT SHALL EXTEND PAST OPENINGS 48 BAR DIAMETERS, MINIMUM. IF REINFORCEMENT CANNOT EXTEND A FULL 48 BAR DIAMETERS PAST THE OPENING, THEN THE REINFORCING IS TO EXTEND AS FAR AS POSSIBLE AND THE REST OF THE BAR IS TO BE BENT 90 DEGREES, EITHER UP OR DOWN.
6. MECHANICAL COUPLERS WHICH DEVELOP 125% OF THE BARS' YIELD STRENGTH MAY BE SUBSTITUTED FOR LAP SPLICES UPON SUBMITTAL AND REVIEW BY THE ENGINEER. WHEN A LAP SPLICE CANNOT BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE, THE ENGINEER MAY SPECIFY A MECHANICAL SPLICE AT NO ADDITIONAL COST TO THE OWNER.
7. NOT USED
8. CLEANOUTS SHALL BE PROVIDED AT THE BOTTOM COURSE OF EVERY GROUT POUR AT EACH VERTICAL BAR FOR LIFTS EXCEEDING 5'-4" IN HEIGHT.
9. REINFORCING SHOWN IS THE MINIMUM REQUIRED FOR ALL OPENINGS. SEE WALL ELEVATIONS (WHERE OCCURS) AND FRAMING PLANS FOR ADDITIONAL REINFORCING REQUIREMENTS.

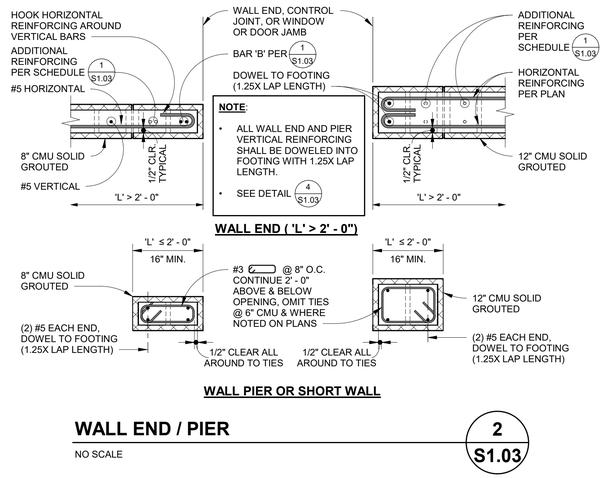
CMU OPENING REINFORCEMENT SCHEDULE			
OPENING LENGTH 'L'	BAR 'A'	BAR 'B'	BAR 'C'
LESS THAN 2'-0"	(1) #5 *	(1) #5 *	(1) #5 *
2'-0" TO 4'-0"	(2) #5	(1) #5 *	(1) #5 *
4'-0" TO 8'-0"	(2) #6	(2) #5	(2) #5
OVER 8'-0"	(2) #6 *	(2) #6	(2) #5

* FOR DOUBLE CURTAIN WALLS, PROVIDE BAR EACH FACE MINIMUM. FOR BAR 'A', DOUBLE REINFORCING IN SINGLE LAYER.

ADDITIONAL REINFORCING [1,2]	
OPENING LENGTH 'L'	ADDITIONAL VERTICAL TRIM STEEL EACH SIDE
L < 4' - 0"	NO ADDITIONAL BARS
L ≤ 8' - 0"	(2) ADDITIONAL #5 BARS
L > 8' - 0"	(2) #5 @ 8" O.C. (4) ADDITIONAL TOTAL

NOTES:

1. ADDITIONAL VERTICAL TRIM STEEL NOT REQUIRED WHERE PILASTER, COLUMN, OR RETURN WALL OCCURS ADJACENT TO OPENING (WITHIN 1'-4")
   SEE DETAIL 2 S1.03
2. FOR OPENINGS FOR ROUND DUCTS 24" Ø MAX, CONSTRUCT SQUARE OPENING W/ MINIMUM (2) COURSES ABOVE & BELOW & GROUT BACK SOLID AROUND DUCT.



WALL END / PIER

NO SCALE

2 S1.03

NOT USED

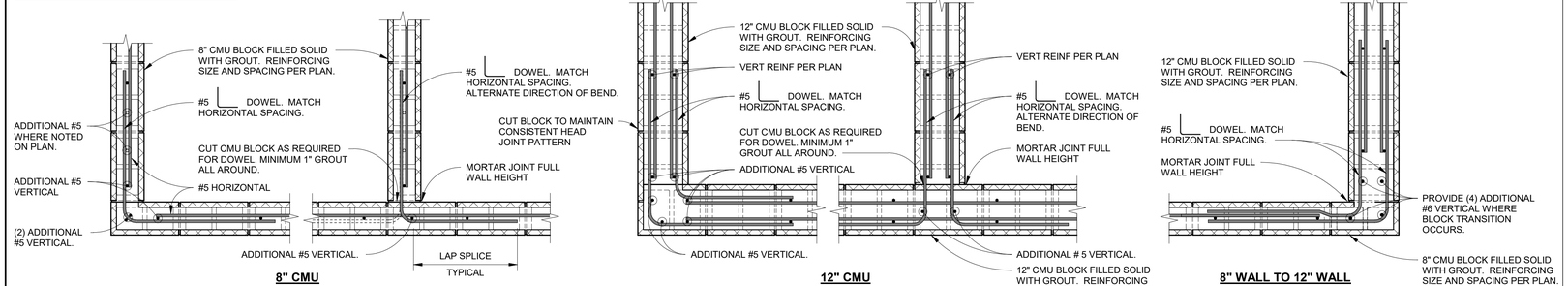
DETAIL

1" = 1'-0"

3 S1.03

NOTE:

- ALL VERTICAL REINFORCING SHALL BE DOWELED INTO FOOTING WITH STANDARD HOOK.
- FOR LAP SPLICE REQUIREMENTS IN CMU, SEE DETAIL 5 S1.03



WALL CORNERS & INTERSECTIONS

NO SCALE

4 S1.03

LAP SPLICE SCHEDULE		
BAR SIZE	STANDARD LAP LENGTH	REDUCED LAP LENGTH
#3	16"	16"
#4	26"	22"
#5	40"	28"
#6	74"	50"
#7	102"	68"
#8	152"	102"

NOTES:

1. LAP SPLICE LOCATION SHALL BE APPROVED BY THE ENGINEER.
2. THE REDUCED LAP LENGTH MAY BE USED WHEN BOTH THE CLEAR COVER & BAR SPACING BETWEEN ADJACENT BARS IS EQUAL TO OR GREATER THAN 3".
3. WHEN TWO BARS OF DIFFERENT SIZE ARE SPLICED, USE LONGER LAP LENGTH.

LAP SPLICE SCHEDULE FOR MASONRY

NO SCALE

5 S1.03

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER DUSTIN G. LEE No. S5621 EXP. 3/31/27 STRUCTURAL STATE OF CALIFORNIA

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED PUBLICATION. RRM DESIGN GROUP COPYRIGHT 2022.
RRM IS A CALIFORNIA CORPORATION

CORNERSTONE structural engineering group
9 River Park Place East, Suite 330
Fresno, California 93720
559.320.3200
fax 559.320.3201

RIVERSTONE FIRE STATION

PROJECT STREET ADDRESS
CITY, STATE, ZIP CODE

TYPICAL DETAILS No. 3

BID DOCUMENTS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: DGL
DRAWN BY: MEW/DAA — CHECKED BY: DGL
DATE: MAY 2026 — Date: 05/04/2026
PROJECT NUMBER: 2021034
SHEET: S1.03

County of Madera – CFD Building and Fire Safety Division Approved under the 2022 California Building Code and Ordinances, not valid for construction unless approved.

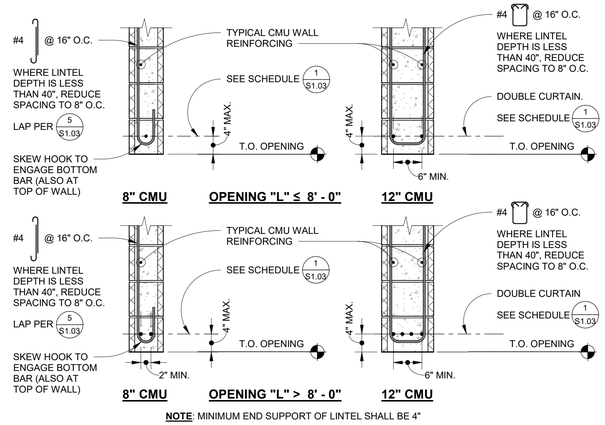
4/29/2026 1:39:25 PM
W:\2021\2021034 Riverstone Fire Station\Revit 2025\Riverstone Fire Station_Structural - Const.rvt

NOT USED

DETAIL 1

1" = 1'-0"

S1.04

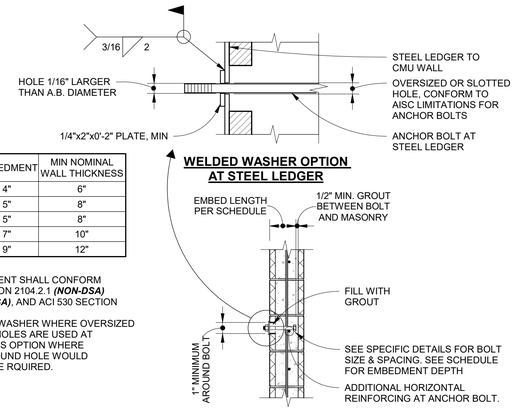


NOTE: MINIMUM END SUPPORT OF LINTEL SHALL BE 4"

LINTEL 2

3/4" = 1'-0"

S1.04



BOLT SIZE	EMBEDMENT	MIN NOMINAL WALL THICKNESS
1/2"Ø	4"	6"
5/8"Ø	5"	8"
3/4"Ø	5"	8"
7/8"Ø	7"	10"
1"Ø	9"	12"

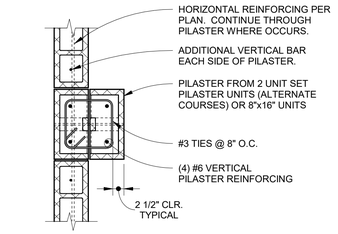
WELDED WASHER OPTION AT STEEL LEDGER

NOTES:
1. BOLT PLACEMENT SHALL CONFORM TO CBC SECTION 2104.2.1 ***(NON-DSA)*** 2104A.1.3.1 ***(DSA)***, AND ACI 530 SECTION 9.1.6.
2. USE WELDED WASHER WHERE OVERSIZED OR SLOTTED HOLES ARE USED AT CONTRACTOR'S OPTION WHERE STANDARD ROUND HOLE WOULD OTHERWISE BE RQUIRED.

BOLT IN CMU WALL 3

3/4" = 1'-0"

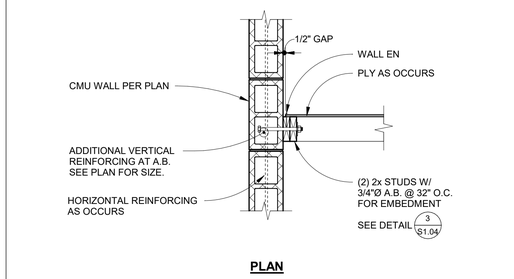
S1.04



CMU PILASTER 4

3/4" = 1'-0"

S1.04

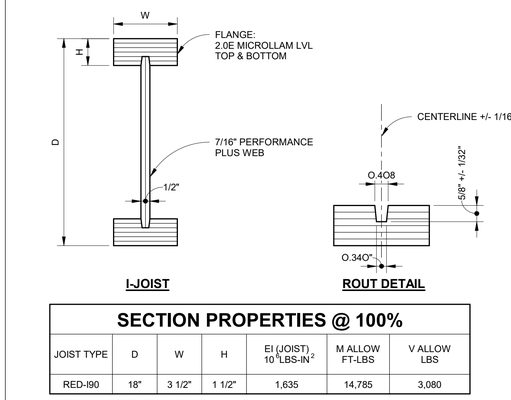


PLAN

WOOD WALL TO CMU 5

3/4" = 1'-0"

S1.04



I-JOIST **ROUT DETAIL**

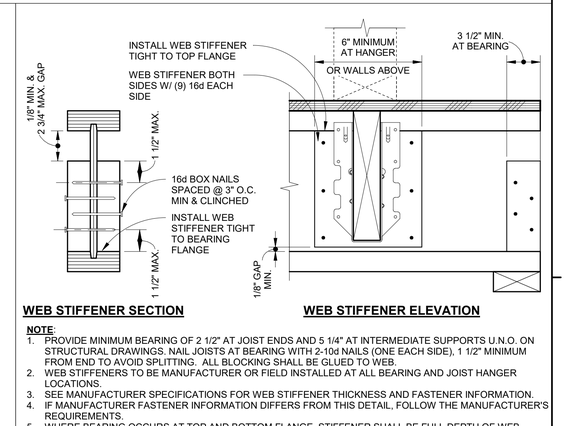
SECTION PROPERTIES @ 100%						
JOIST TYPE	D	W	H	EI (JOIST) 10^6LBS-IN^2	M ALLOW FT-LBS	V ALLOW LBS
RED-I90	18"	3 1/2"	1 1/2"	1,635	14,785	3,080

NOTE: FLANGE TOLERANCE 1/32" +/-

I-JOIST SECTION PROPERTIES 6

3" = 1'-0"

S1.04



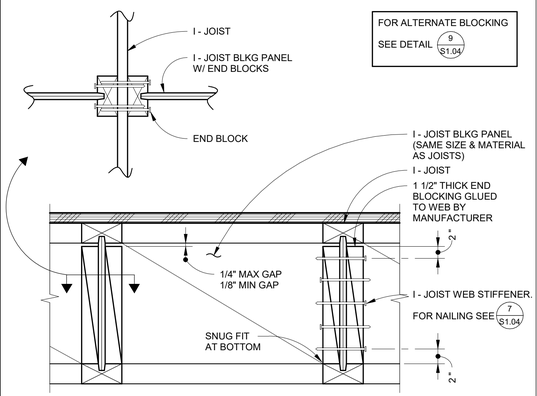
WEB STIFFENER SECTION **WEB STIFFENER ELEVATION**

NOTE:
1. PROVIDE MINIMUM BEARING OF 2 1/2" AT JOIST ENDS AND 5 1/4" AT INTERMEDIATE SUPPORTS U.N.O. ON STRUCTURAL DRAWINGS. NAIL JOISTS AT BEARING WITH 2-10d NAILS (ONE EACH SIDE), 1 1/2" MINIMUM FROM END TO AVOID SPLITTING. ALL BLOCKING SHALL BE GLUED TO WEB.
2. WEB STIFFENERS TO BE MANUFACTURER OR FIELD INSTALLED AT ALL BEARING AND JOIST HANGER LOCATIONS.
3. SEE MANUFACTURER SPECIFICATIONS FOR WEB STIFFENER THICKNESS AND FASTENER INFORMATION.
4. IF MANUFACTURER FASTENER INFORMATION DIFFERS FROM THIS DETAIL, FOLLOW THE MANUFACTURER'S REQUIREMENTS.
5. WHERE BEARING OCCURS AT TOP AND BOTTOM FLANGE, STIFFENER SHALL BE FULL DEPTH OF WEB.

I - JOIST WEB STIFFENER 7

3" = 1'-0"

S1.04

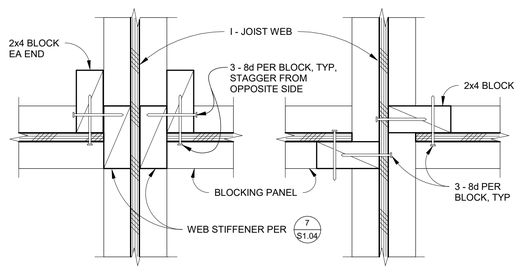


I - JOIST BLOCKING

I - JOIST BLOCKING 8

3" = 1'-0"

S1.04



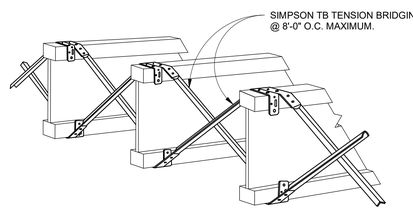
AT I-JOIST BEARING **NOT AT I-JOIST BEARING**

ALTERNATE BLOCKING DETAIL AT ODD SPACES WHERE FACTORY INSTALLED END BLOCKS ARE NOT PROVIDED

ALTERNATE I - JOIST BLOCKING 9

3" = 1'-0"

S1.04

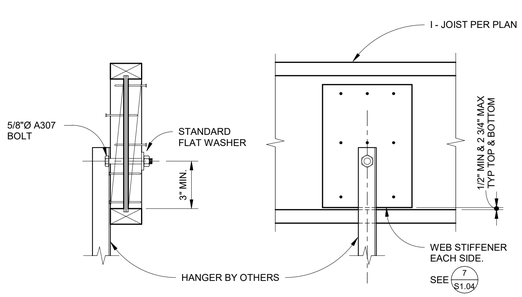


NOTE:
1. TENSION BRIDGING IS REQUIRED AT 8'-0" O.C. IN FLOORS & ROOFS, U.N.O.
2. TENSION BRIDGING SHALL BE USED IN CROSS PAIRS FULL LENGTH OF FLOOR.
3. INSTALL BRIDGING TIGHTLY.
4. REFER TO MANUFACTURER FOR ADDITIONAL INFORMATION.

I-JOIST CROSS BRIDGING 10

1 1/2" = 1'-0"

S1.04



HANGER FROM I - JOIST (200lb MAX) 11

1 1/2" = 1'-0"

S1.04

rrm design group

rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER DUSTIN G. LEE No. 33621 EXP. 3/31/27 STRUCTURAL STATE OF CALIFORNIA

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED PUBLICATION OF RRM DESIGN GROUP'S COPYRIGHT.

RRM DESIGN GROUP COPYRIGHT 2022.
RRM IS A CALIFORNIA CORPORATION

CORNERSTONE structural engineering group

9 River Park Place East, Suite 330
Fresno, California 93720
559.320.3200
fax 559.320.3201

RIVERSTONE FIRE STATION

PROJECT STREET ADDRESS
CITY, STATE, ZIP CODE

TYPICAL DETAILS No. 4

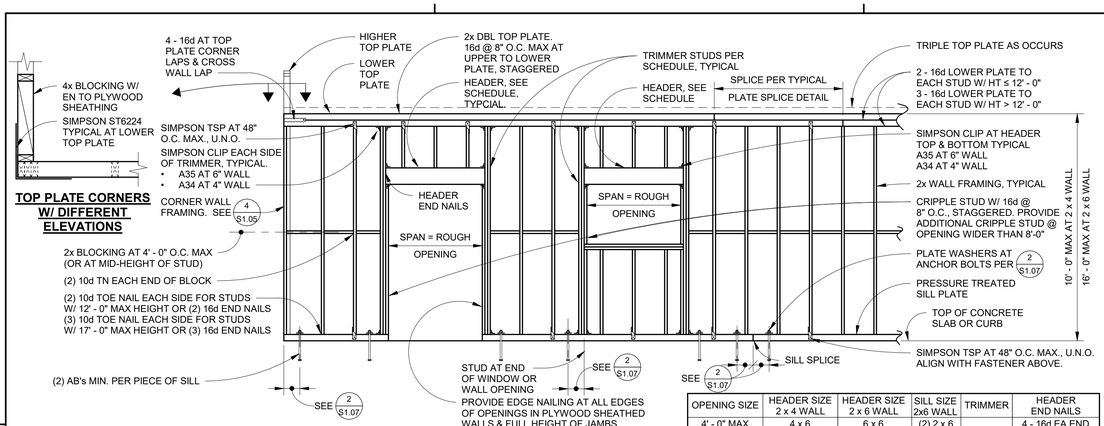
BID DOCUMENTS

NO.	REVISION	DATE

PROJECT MANAGER: DGL
DRAWN BY: MEW/DAA | CHECKED BY: DGL
DATE: MAY 4, 2026
PROJECT NUMBER: 2021034
SHEET: S1.04

County of Madera – CFD Building and Fire Safety Plans Approved Under the 2022 California Building Code
Date: 05/04/2026
Approved subject to conditions noted on plans. Provide and Enforce as such plans.
Approved without exception

4/29/2026 1:39:26 PM
W:\2021\2021034 Riverstone Fire Station\Revit 2025\Riverstone Fire Station_Structural - Const.rvt



TOP PLATE CORNERS W/ DIFFERENT ELEVATIONS

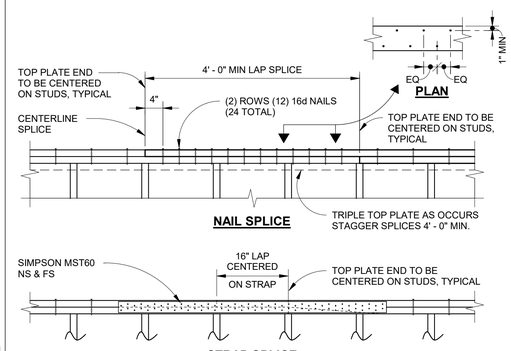
OPENING SIZE	HEADER SIZE 2 x 4 WALL	HEADER SIZE 2 x 6 WALL	SILL SIZE 2x6 WALL	TRIMMER	HEADER END NAILS
4' - 0" MAX	4 x 6	6 x 6	(2) 2 x 6	(2) 2x	4 - 16d EA END
6' - 0" MAX	6 x 8	6 x 8	(2) 2 x 6		4 - 16d EA END
8' - 0" MAX	4 x 10	6 x 10	(2) 2 x 6	(3) 2x	4 - 16d EA END
10' - 0" MAX	4 x 12	6 x 12	(3) 2 x 6	6x	4 - 16d EA END

* SCHEDULE BASED ON 30 PSF WIND LOAD

STUDWALL FRAMING

NO SCALE

1 S1.05



NOTE:
1. USE NAIL SPLICE UNLESS NOTED OTHERWISE ON PLANS.
2. AT PLYWOOD WALLS, STRAP MAY BE INSTALLED OVER PLYWOOD AND TAKE PLACE OF EDGE NAILING.

PLATE SPLICE DETAIL

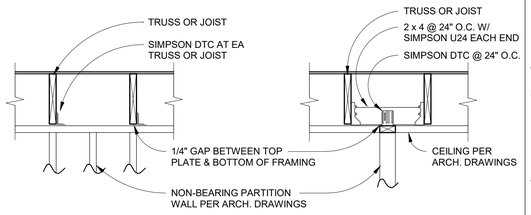
NO SCALE

2 S1.05

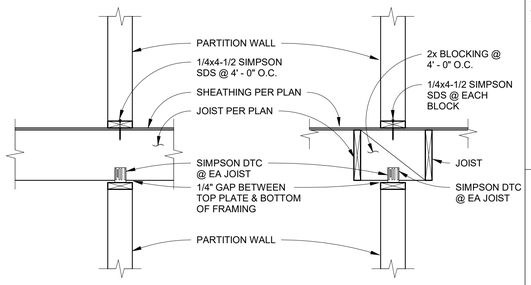
MINIMUM NAILING SCHEDULE

CONNECTION	NAILING[1]
1. JOIST TO SILL GIRDER, TOENAIL 8 - INCH JOIST OR LESS FOR EACH ADDITIONAL 4 INCHES IN DEPTH OF JOIST	 3 - 16d 1 - 16d
2. BRIDGING TO JOIST, TOENAIL EACH END a. BLOCKING BETWEEN JOISTS OR RAFTERS - TO JOIST OR RAFTERS - TOENAILS EACH SIDE, EACH END b. BLOCKING BETWEEN STUDS, EACH END	2 - 8d 2 - 10d[12] 2 - 10d TOENAILS OR 2 - 16d
3. 1" x 6" (25mm x 152mm) SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL.	2 - 8d
4. WIDER THAN 1" x 6" (25mm x 152mm) SUBFLOOR TO EACH JOIST, FACE NAIL.	3 - 8d
5. 2" (51mm) SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL	2 - 16d
6. SOLE PLATE TO JOIST OR BLOCKING, TYPICAL FACE NAIL. SOLE PLATE TO JOIST BLOCKING, AT BRACED WALL PANELS.	16d AT 16" (406mm) O.C. 3 - 16d PER 16" (406mm)
7. TOP PLATE TO STUD, END NAIL.	2 - 16d
8. STUD TO SOLE PLATE.	4 - 8d, TOENAIL OR 2 - 16d, END NAIL
9. DOUBLE STUDS, FACE NAIL.	16d AT 24" (610mm) O.C.
10. DOUBLED TOP PLATES, TYPICAL FACE NAIL. DOUBLED TOP PLATES, LAP SPLICE.	16d AT 16" (406mm) O.C. 8 - 16d
11. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL	3 - 8d
12. RIM JOIST TO TOP PLATE, TOENAIL	8d AT 6" (152mm) O.C.
13. TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL.	2 - 16d
14. CONTINUOUS HEADER, TWO PIECES.	16d AT 16" (406mm) O.C. ALONG EACH EDGE
15. CEILING JOISTS TO PLATE, TOENAIL.	3 - 8d
16. CONTINUOUS HEADER TO STUD, TOENAIL.	4 - 8d
17. CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL.	3 - 16d
18. CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL.	3 - 16d
19. JOIST OR RAFTERS AT ALL BEARINGS - TOENAILS, EACH SIDE.	3 - 8d
20. 1" (25mm) BRACE TO EACH STUD AND PLATE, FACE NAIL.	2 - 8d
21. 1" x 8" (25mm x 203mm) SHEATHING OR LESS TO EACH BEARING, FACE NAIL.	3 - 8d
22. WIDER THAN 1" x 8" (25mm x 203mm) SHEATHING TO EACH BEARING, FACE NAIL.	3 - 8d
23. BUILT - UP CORNER STUDS.	16d AT 24" (610mm) O.C.
24. BUILT - UP GIRDER AND BEAMS.	20D AT 32" (813mm) O.C. AT TOP AND BOTTOM AND STAGGERED 2 - 20d AT ENDS AND AT EACH SPLICE
25. 2" (51mm) PLANKS	2 - 16d AT EACH BEARING
26. COLLAR TIE TO RAFTER, FACE NAIL.	3 - 10d
27. JACK RAFTER TO HIP.	3 - 10d, TOENAIL OR 2 - 16d, FACE NAIL
28. ROOF RAFTER TO 2x RIDGE BEAM	2 - 10d, TOENAIL OR 2 - 16d, FACE NAIL
29. JOIST TO BAND JOIST, FACE NAIL	3 - 16d
30. LEDGER STRIP, FACE NAIL.	3 - 16d
31. WOOD STUCTURAL PANELS AND PARTICLEBOARD:[2] SUBFLOOR AND WALL SHEATHING (TO FRAMING): 1/2" (12.7 mm) AND LESS 19/32" - 3/4" (15mm - 19mm) 7/8" - 1" (22mm - 25mm) COMBINATION SUBFLOOR - UNDERLAYMENT (TO FRAMING): 3/4" (19mm) AND LESS 7/8" - 1" (22mm - 25mm) 1 1/8" - 1 1/4" (29mm - 32mm)	 6d[3] 8d OR 6d[4] 8d[3] 10d OR 8d[5] 6d[4] 8d[5] 10d OR 8d
32. PANEL SIDING (TO FRAMING)[7]: 1/2" (12.7mm) AND LESS 5/8" (16mm)	 6d[6] 8d[6]
33. FIBERBOARD SHEATHING: 1/2" (12.7mm) 25/32" (20mm)	 No. 11 ga.[8] 6d[4] No. 16 ga.[9] No. 11 ga.[8] 8d[9] No. 16 ga.
34. INTERIOR PANELING: 1/4" (6.4mm) 3/8" (9.5mm)	 4d[10] 6d[11]

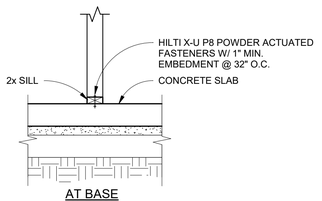
1 COMMON NAILS SHALL BE USED EXCEPT WHERE OTHERWISE STATED.
2 NAILS SPACED AT 6 INCHES (152mm) ON CENTER AT EDGES, 12 INCHES (305mm) AT INTERMEDIATE SUPPORTS EXCEPT 6 INCHES (152mm) AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES (1219mm) OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING MAY BE COMMON.
3 COMMON OR DEFORMED SHANK.
4 COMMON.
5 DEFORMED SHANK.
6 CORROSION-RESISTANT SIDING OR CASING NAILS CONFORMING TO THE REQUIREMENTS OF SECTION 2304.10.1.1.
7 FASTENERS SPACED 3 INCHES (76mm) ON CENTER AT EXTERIOR EDGES AND 6 INCHES (152mm) ON CENTER AT INTERMEDIATE SUPPORTS.
8 CORROSION-RESISTANT ROOFING NAILS WITH 7/16-INCH-DIAMETER (11mm) HEAD AND 11/2-INCH (38mm) LENGTH FOR 1/2-INCH (12.7mm) SHEATHING AND 13/4-INCH (44mm) LENGTH FOR 25/32-INCH (20mm) SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2304.9.1.1.
9 CORROSION-RESISTANT STAPLES WITH NOMINAL 7/16-INCH (11mm) CROWN AND 11/8-INCH (29mm) LENGTH FOR 1/2-INCH (12.7mm) SHEATHING AND 11/2-INCH (38mm) LENGTH FOR 25/32-INCH (20mm) SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2304.9.1.1.
10 PANEL SUPPORTS AT 16 INCHES (406mm) [20 INCHES (508mm) IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED]. CASING OF FINISH NAILS SPACED 6 INCHES (152mm) ON PANEL EDGES. 12 INCHES (305mm) AT INTERMEDIATE SUPPORTS.
11 PANEL SUPPORTS AT 24 INCHES (610mm). CASING OR FINISH NAILS SPACED 6 INCHES (152mm) ON PANEL EDGES, 12 INCHES (305mm) AT INTERMEDIATE SUPPORTS.
12 WHEN POSSIBLE, NAILS DRIVEN PERPENDICULAR TO GRAIN SHALL BE USED INSTEAD OF TOENAILS.



PARTITION PERPENDICULAR TO FRAMING PARTITION PARALLEL TO FRAMING



AT FLOOR PERPENDICULAR TO FRAMING AT FLOOR PARALLEL TO FRAMING

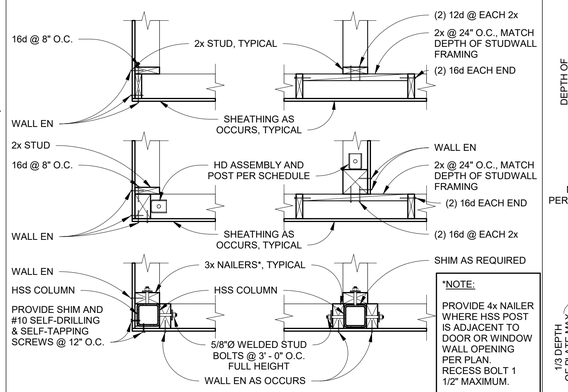


AT BASE

NON-BEARING WALL PARTITION

NO SCALE

3 S1.05

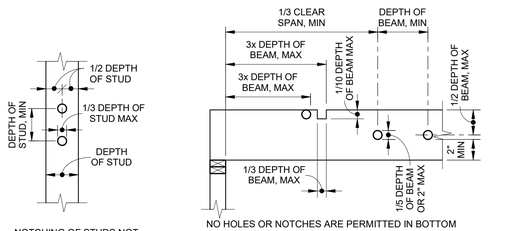


*NOTE:
PROVIDE 4x NAILER WHERE HSS POST IS ADJACENT TO DOOR OR WINDOW WALL OPENING PER PLAN. RECESS BOLT 1 1/2" MAXIMUM.

FRAMING DETAIL

NO SCALE

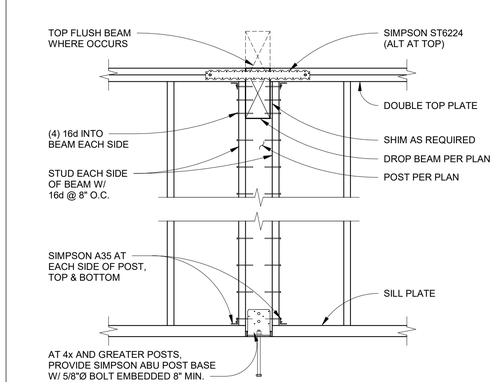
4 S1.05



NOTCH/HOLE IN FRAMING

NO SCALE

5 S1.05

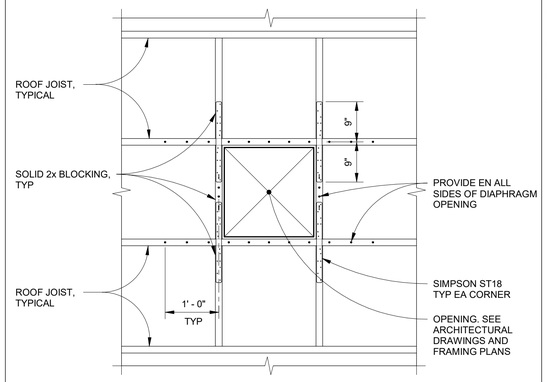


NOTE: TYPICAL U.N.O. SEE PLAN FOR SPECIFIC POST DETAILS.

POST IN WALL

NO SCALE

6 S1.05



NOTE: MAXIMUM OPENING SIZE NOT TO EXCEED JOIST SPACING.

SMALL ROOF OPENING

NO SCALE

7 S1.05

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER DUSTIN G. LEE No. S9631 EXP. 3/31/27 STRUCTURAL STATE OF CALIFORNIA

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED PUBLICATION. RRM DESIGN GROUP RETAINS COPYRIGHT.
RRM DESIGN GROUP COPYRIGHT 2022.
RRM IS A CALIFORNIA CORPORATION

CORNERSTONE structural engineering group
9 River Park Place East, Suite 330
Fresno, California 93720
559.320.3200
fax 559.320.3201

RIVERSTONE FIRE STATION

PROJECT STREET ADDRESS
CITY, STATE, ZIP CODE

TYPICAL DETAILS No. 5

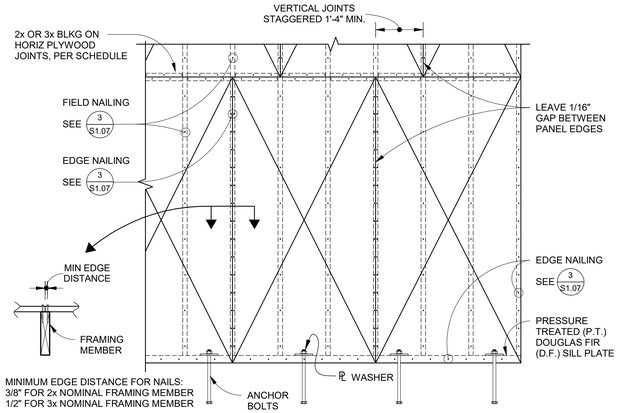
BID DOCUMENTS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: DGL
DRAWN BY: MEW/DAA CHECKED BY: DGL
DATE: MAY 4, 2026
PROJECT NUMBER: 2021034
SHEET: S1.05

County of Madera – CFD Building and Fire Safety. Approved Plans Under this 2022 California Building Codes and Ordinances, not valid without signature. Date 05/04/2026

4/29/2026 1:39:26 PM
W:\2021\2021034 Riverstone Fire Station\Revit 2025\Riverstone Fire Station_Structural - Const.rvt



NOTES:

1. HOLDOWN BOLTS SHALL NOT REPLACE ANCHOR BOLTS.
2. RETIGHTEN ALL ANCHOR BOLTS AND HOLDOWN NUTS PRIOR TO CLOSING FRAMING.
3. NAILS SHALL BE COMMON AND HAVE MIN 1 5/8" PENETRATION INTO HOLDING MEMBER.
4. PREDRILL HOLES AS REQUIRED TO AVOID SPLITTING.
5. MINIMUM PLYWOOD WIDTH IS 12".
6. UPSET THREAD BOLTS ARE NOT PERMITTED.

ELEVATION

SHEARWALL SCHEDULE - WOOD

ZONE	ALLOWABLE SHEAR	PLYWOOD	EDGE NAILING	FIELD NAILING	BOLTED PLATE CONNECTION	SCREWED PLATE CONNECTION	BLOC KING	A35 OR LTP4 SPACING	REMARK S
A	260 PLF	1/2" CDX	8d @ 6" OC	8d @ 12" OC	AB @ 48" OC	1/4" x 6" SDS @ 24" OC	2x	24" OC	1, 3, 4
B	380 PLF	1/2" CDX	8d @ 4" OC	8d @ 12" OC	AB @ 32" OC	1/4" x 6" SDS @ 16" OC	2x	16" OC	2, 3, 4
C	490 PLF	1/2" CDX	8d @ 3" OC	8d @ 12" OC	AB @ 32" OC	1/4 x 6" SDS @ 12" OC	3x	16" OC	2, 3, 4
D	640 PLF	1/2" CDX	8d @ 2" OC	8d @ 12" OC	AB @ 24" OC	1/4 x 6" SDS @ 8" OC	3x	12" OC	2, 3, 4
E	310 PLF	1/2" CDX	10d @ 6" OC	10d @ 12" OC	AB @ 48" OC	1/4" x 6" SDS @ 16" OC	2x	24" OC	1, 3, 4
F	460 PLF	1/2" CDX	10d @ 4" OC	10d @ 12" OC	AB @ 32" OC	1/4 x 6" SDS @ 12" OC	3x	16" OC	2, 3, 4
G	600 PLF	1/2" CDX	10d @ 3" OC	10d @ 12" OC	AB @ 24" OC	1/4 x 6" SDS @ 8" OC	3x	12" OC	2, 3, 4
H	770 PLF	1/2" CDX	10d @ 2" OC	10d @ 12" OC	AB @ 16" OC	1/4 x 6" SDS @ 8" OC	3x	8" OC	2, 3, 4
I	340 PLF	1/2" STRUCT 1	10d @ 6" OC	10d @ 12" OC	AB @ 48" OC	1/4" x 6" SDS @ 16" OC	2x	16" OC	1, 3, 4
J	510 PLF	1/2" STRUCT 1	10d @ 4" OC	10d @ 12" OC	AB @ 32" OC	1/4 x 6" SDS @ 12" OC	3x	12" OC	2, 3, 4
K	665 PLF	1/2" STRUCT 1	10d @ 3" OC	10d @ 12" OC	AB @ 24" OC	1/4 x 6" SDS @ 8" OC	3x	12" OC	2, 3, 4
L	870 PLF	1/2" STRUCT 1	10d @ 2" OC	10d @ 12" OC	AB @ 16" OC	1/4 x 6" SDS @ 6" OC	3x	8" OC	2, 3, 4

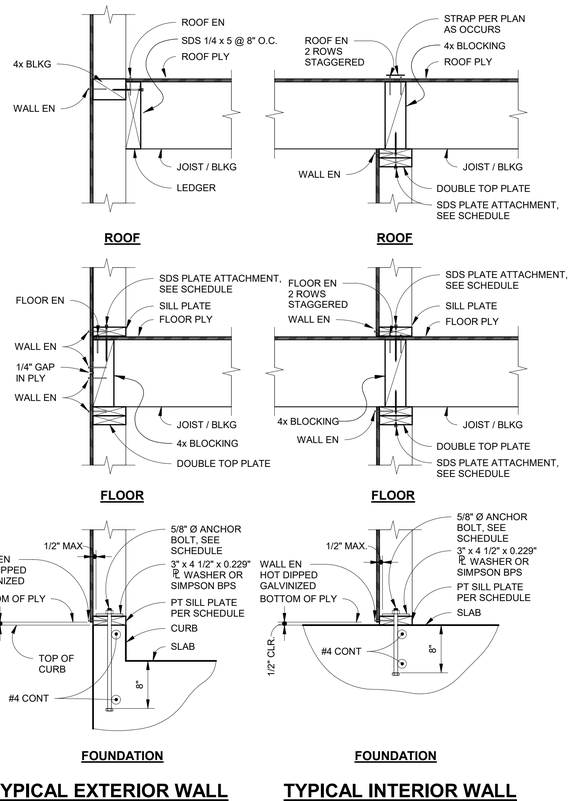
NOTE:
WHEN PLY IS SHOWN BOTH SIDES, OFFSET PANEL JOINTS EACH SIDE OF WALL TO FALL ON DIFFERENT FRAMING MEMBERS. INSTALL 3x OR WIDER FRAMING & BLOCKING AT ALL ADJOINING PANEL EDGES. ANCHOR BOLT, SCREW & A35/LTP4 SPACING SHOULD BE HALVED.

REMARKS:

1. INSTALL 2x OR WIDER FRAMING & BLOCKING AT ALL ADJOINING PANEL EDGES.
2. INSTALL 3x OR WIDER FRAMING & BLOCKING WITH STAGGERED EDGE NAILING AT ALL ADJOINING PANEL EDGES.
3. FASTENERS SHALL BE COMMON.
4. PLYWOOD SHALL BE EDGE FASTENED AT ALL PANEL EDGES, TOP PLATES, SILL PLATES, HOLDOWN STUDS, WOOD POSTS AND BLOCKING LOCATIONS AS WELL AS OTHER LOCATIONS SHOWN IN THE DRAWINGS.
5. WHEN NAILING IS SPECIFIED AT AN (E) 2x STUDWALL, PROVIDE ADDITIONAL 2x FRAMING AT PANEL EDGES. EDGE NAIL ONE PANEL TO EA 2x STAGGERED PER SCHEDULE. INTERNAIL DOUBLE 2x W/ 2 ROWS OF 10d @ 8" OC STAGGERED.

PLYWOOD SHEARWALL

NO SCALE — 1 / S1.06

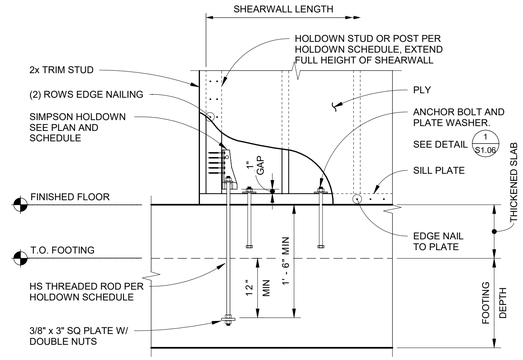


TYPICAL EXTERIOR WALL

TYPICAL INTERIOR WALL

NOTES:

1. FRAMING AND CONNECTIONS SHOWN ARE FOR LATERAL SYSTEM LOAD TRANSFER ONLY. SEE PLANS AND DETAILS FOR ADDITIONAL VERTICAL SUPPORT FRAMING.
2. PROVIDE STANDARD CUT WASHER BETWEEN NUT & BPS PLATE.

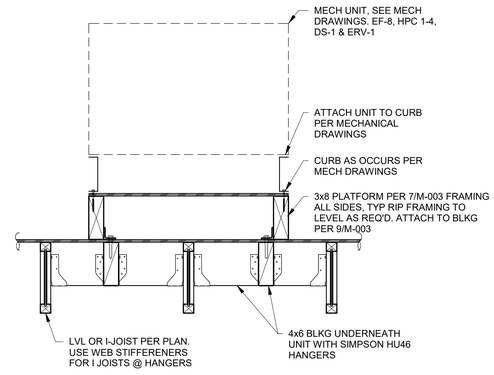


HOLDOWN SCHEDULE - SIMPSON STRONG-TIE WOOD

TYPE	DESCRIPTION	No. OF SDS 1/4x SCREW TO POST	HS THREADED ROD SIZE	END POST	SERVICE LOAD CAPACITY
1	HDU2-SDS2.5	6	5/8"	4x6 MIN.	3,075#
2	HDU5-SDS2.5	14	5/8"	4x6 MIN.	5,645#
3	HDU8-SDS2.5	20	7/8"	6x	7,870#
4	HDU11-SDS2.5	30	1"	6x	9,535#

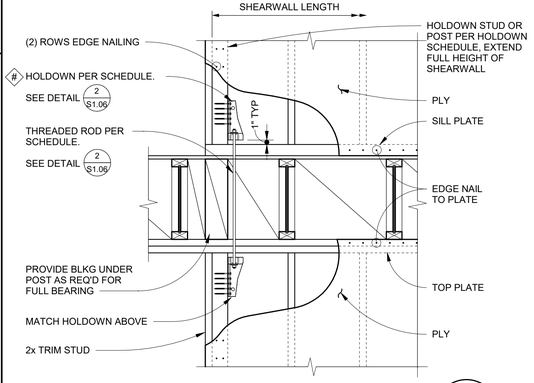
HOLDOWN AT FOOTING

NO SCALE — 2 / S1.06



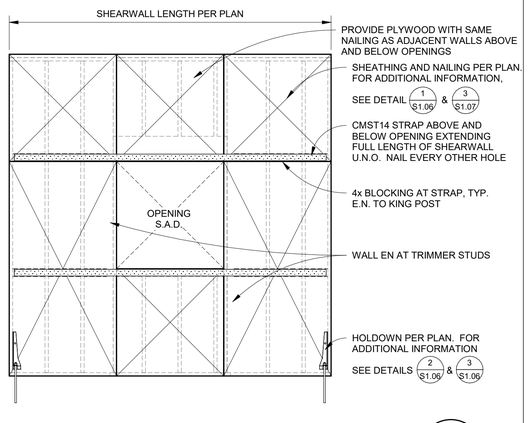
TYPICAL MECHANICAL PLATFORM DETAIL

1" = 1'-0" — 6A / S1.06



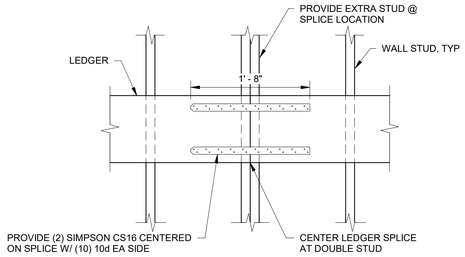
HOLDOWN AT FLOOR

NO SCALE — 3 / S1.06



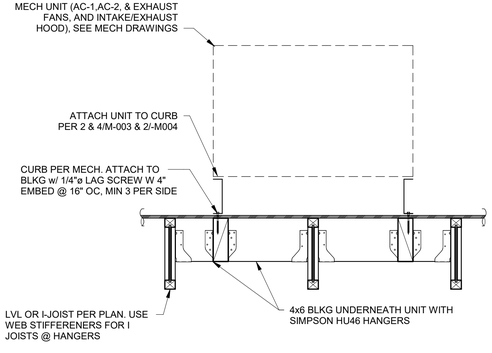
STRAPPED SHEARWALL ELEVATION

NO SCALE — 4 / S1.06



TYPICAL LEDGER SPLICE DETAIL

1" = 1'-0" — 5 / S1.06



TYPICAL MECHANICAL CURB

1" = 1'-0" — 6B / S1.06

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED PUBLICATION. RRM DESIGN GROUP RETAINS COPYRIGHT.
RRM DESIGN GROUP COPYRIGHT 2022.
RRM IS A CALIFORNIA CORPORATION

CORNERSTONE structural engineering group
9 River Park Place East, Suite 330
Fresno, California 93720
559.320.3200
fax 559.320.3201

RIVERSTONE FIRE STATION

PROJECT STREET ADDRESS
CITY, STATE, ZIP CODE

TYPICAL DETAILS No. 6

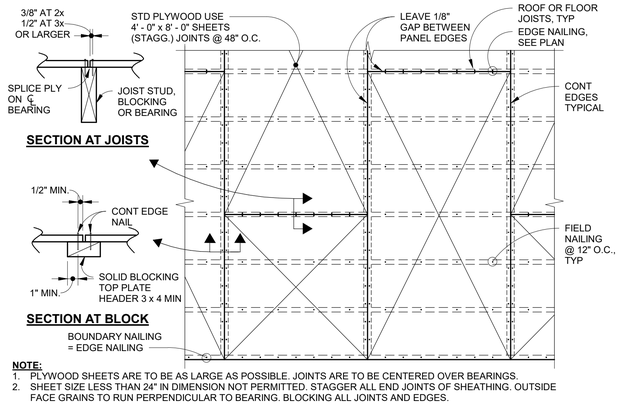
NO.	REVISION	DATE

PROJECT MANAGER: DGL
DRAWN BY: MEW/DAA — CHECKED BY: DGL
DATE: MAY 4, 2026
PROJECT NUMBER: 2021034
SHEET: S1.06

BID DOCUMENTS

County of Madera – CBO Building Division Approved under the 2022 California Building and Fire Safety Codes. Includes local Ordinances, such codes, amendments and/or regulations.
Date: 05/04/2026

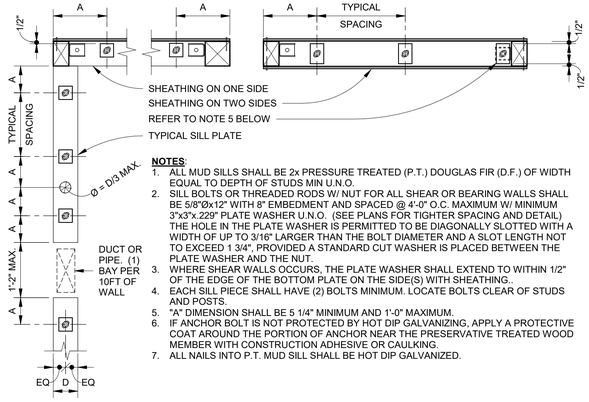
4/29/2026 1:39:27 PM
W:\2021\2021034 Riverstone Fire Station\Revit 2025\Riverstone Fire Station_Structural - Const.rvt



NOTE:
1. PLYWOOD SHEETS ARE TO BE AS LARGE AS POSSIBLE. JOINTS ARE TO BE CENTERED OVER BEARINGS.
2. SHEET SIZE LESS THAN 24" IN DIMENSION NOT PERMITTED. STAGGER ALL END JOINTS OF SHEATHING. OUTSIDE FACE GRAINS TO RUN PERPENDICULAR TO BEARING. BLOCKING ALL JOINTS AND EDGES.

PLYWOOD DIAPHRAGM FRAMING — 1 / S1.07

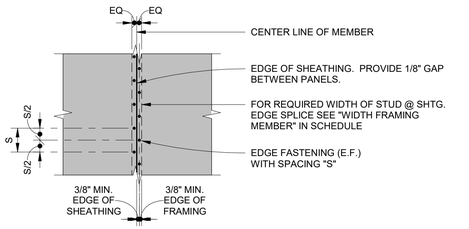
1/2" = 1'-0"



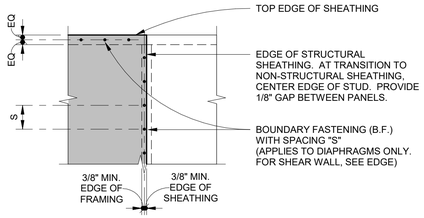
NOTES:
1. ALL MUD SILLS SHALL BE 2x PRESSURE TREATED (P.T.) DOUGLAS FIR (D.F.) OF WIDTH EQUAL TO DEPTH OF STUDS MIN U.N.O.
2. SILL BOLTS OR THREADED RODS W/ NUT FOR ALL SHEAR OR BEARING WALLS SHALL BE 5/8"Ø x12" WITH 8" EMBEDMENT AND SPACED @ 4'-0" O.C. MAXIMUM W/ MINIMUM 3"x3"x.229" PLATE WASHER U.N.O. (SEE PLANS FOR TIGHTER SPACING AND DETAIL) THE HOLE IN THE PLATE WASHER IS PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH OF UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH NOT TO EXCEED 1 3/4", PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT.
3. WHERE SHEAR WALLS OCCURS, THE PLATE WASHER SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE ON THE SIDE(S) WITH SHEATHING..
4. EACH SILL PIECE SHALL HAVE (2) BOLTS MINIMUM. LOCATE BOLTS CLEAR OF STUDS AND POSTS.
5. "A" DIMENSION SHALL BE 5 1/4" MINIMUM AND 1'-0" MAXIMUM.
6. IF ANCHOR BOLT IS NOT PROTECTED BY HOT DIP GALVANIZING, APPLY A PROTECTIVE COAT AROUND THE PORTION OF ANCHOR NEAR THE PRESERVATIVE TREATED WOOD MEMBER WITH CONSTRUCTION ADHESIVE OR CAULKING.
7. ALL NAILS INTO P.T. MUD SILL SHALL BE HOT DIP GALVANIZED.

MUD SILL AND ANCHOR BOLT — 2 / S1.07

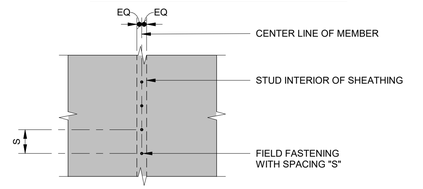
3/4" = 1'-0"



SHEAR PANEL FASTENING AT EDGE/BLOCKING

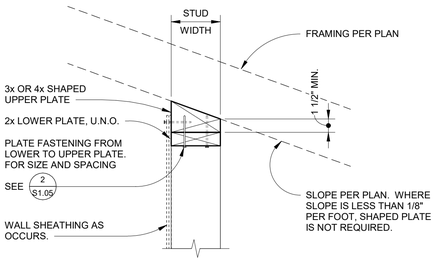


SHEAR PANEL FASTENING AT BOUNDARY



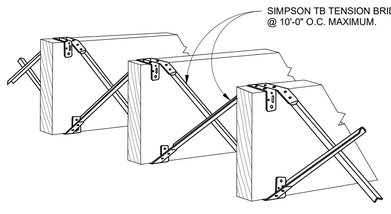
SHEAR PANEL FASTENING AT FIELD/INTERMEDIATE STUD

NOTE: THE FASTENING DESIGNATION 6:6:12 INDICATES (6" O.C. EDGE):(6" O.C. BOUNDARY):(12" O.C. FIELD)



SHAPED TOP PLATE — 4 / S1.07

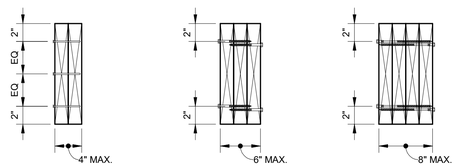
1 1/2" = 1'-0"



NOTE:
1. TENSION BRIDGING IS REQUIRED AT 10'-0" O.C. IN FLOORS & ROOFS, U.N.O.
2. TENSION BRIDGING SHALL BE USED IN CROSS PAIRS FULL LENGTH OF FLOOR.
3. INSTALL BRIDGING TIGHTLY.
4. REFER TO MANUFACTURER FOR ADDITIONAL INFORMATION.

CROSS BRIDGING — 5 / S1.07

1 1/2" = 1'-0"



2-PLY **3-PLY** **4-PLY**

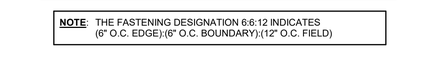
CONNECTION SCHEDULE

	CONNECTOR TYPE	# OF ROWS (3)	CONNECTOR ON-CENTER SPACING	MEMBER DEPTH
2-PLY(1)	16d	2	12"	5 1/2" TO 9 1/4"
2-PLY(1)	16d	3	12"	9 1/4" TO 11 7/8"
2-PLY(1)	SIMPSON 1/4" x 3 1/2" SDS	2	16"	11 7/8" TO 18"
3-PLY	SIMPSON 1/4" x 3 1/2" SDS	2	16"	7 1/2" TO 18"
4-PLY	SIMPSON 1/4" x 6" SDS	2	16"	7 1/2" TO 18"

NOTES:
1. WHERE 2-PLY SITUATION IS ONLY 3" WIDE, PROVIDE 10d NAILS AND SIMPSON 1/4" x 3" SDS SCREW RESPECTIVELY.
2. SEE PLANS FOR MEMBER INFORMATION. MEMBERS SHALL BE EQUAL SIZE.
3. STAGGER FASTENERS ON OPPOSING FACES.

MULTIPLE MEMBER CONNECTION — 6 / S1.07

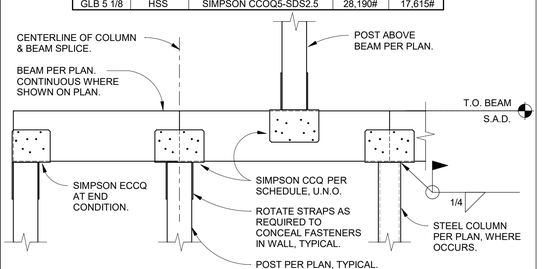
1 1/2" = 1'-0"



PLY EDGE/BOUNDARY FASTENING — 3 / S1.07

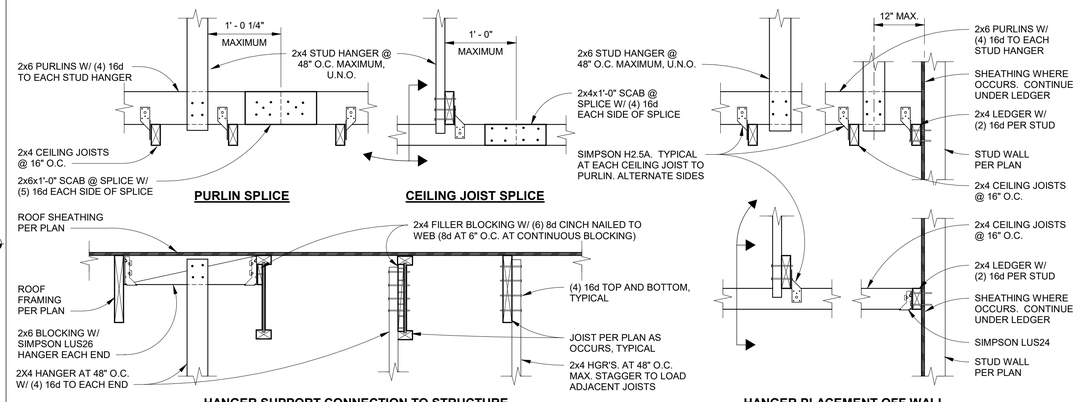
1" = 1'-0"

SIMPSON CCQ/ECCQ SCHEDULE				
BEAM	POST	COLUMN CAP	ALLOWABLE DOWN	
			CCQ	ECCQ
4x	4x6	SIMPSON CCQ46SDS2.5	24,065#	12,030#
6x	6x6	SIMPSON CCQ66SDS2.5	33,275#	18,905#
GLB 3 1/8	4x6	SIMPSON CCQ3-6SDS2.5	21,485#	10,740#
GLB 5 1/8	6x6	SIMPSON CCQ5-6SDS2.5	28,190#	17,615#
6x	HSS	SIMPSON CCQQ6-SDS2.5	33,275#	18,905#
GLB 5 1/8	HSS	SIMPSON CCQQ5-SDS2.5	28,190#	17,615#



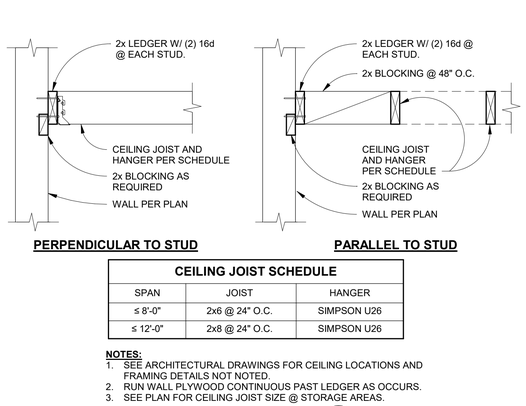
BEAM TO POST CONNECTION — 7 / S1.07

3/4" = 1'-0"



CEILING SUPPORT FRAMING — 8 / S1.07

1" = 1'-0"



CEILING JOIST SCHEDULE

SPAN	JOIST	HANGER
≤ 8'-0"	2x6 @ 24" O.C.	SIMPSON U26
≤ 12'-0"	2x8 @ 24" O.C.	SIMPSON U26

NOTES:
1. SEE ARCHITECTURAL DRAWINGS FOR CEILING LOCATIONS AND FRAMING DETAILS NOT NOTED.
2. RUN WALL PLYWOOD CONTINUOUS PAST LEDGER AS OCCURS.
3. SEE PLAN FOR CEILING JOIST SIZE @ STORAGE AREAS.
4. WHERE SPANS EXCEED 12'-0", SEE DETAIL 8 S1.07

WOOD CEILING JOIST FRAMING DETAIL — 9 / S1.07

1" = 1'-0"

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER — DUSTIN G. LEE — No. 5963 — EXP. 3/31/27 — STRUCTURAL — STATE OF CALIFORNIA

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED PUBLICATION. RRM DESIGN GROUP COPYRIGHT 2022.
RRM IS A CALIFORNIA CORPORATION

CORNERSTONE structural engineering group
9 River Park Place East, Suite 330
Fresno, California 93720
559.320.3200
fax 559.320.3201

RIVERSTONE FIRE STATION

PROJECT STREET ADDRESS
CITY, STATE, ZIP CODE

TYPICAL DETAILS No. 7

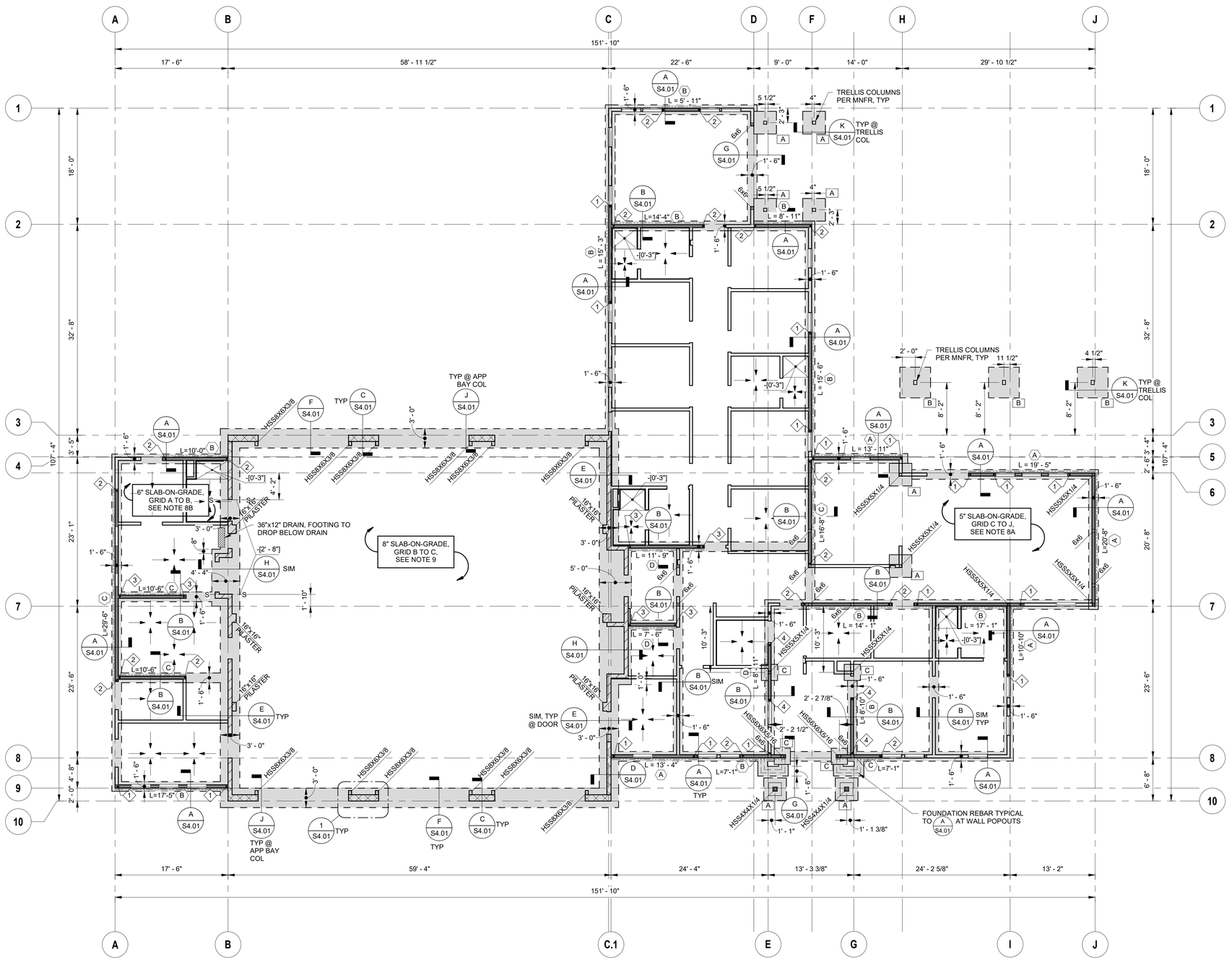
BID DOCUMENTS

NO.	REVISION	DATE

PROJECT MANAGER: DGL
DRAWN BY: MEW/DAA — CHECKED BY: DGL
DATE: MAY 4, 2026
PROJECT NUMBER: 2021034
SHEET: S1.07

County of Madera – CFD Building and Fire Safety — Approved as Noted — Date: 05/04/2026 — Plans shall comply with the 2022 California Building Code and Ordinances, and state laws. Approval is not permission to violate any laws. — Building Division

4/29/2026 1:39:28 PM
W:\2021\2021034 Riverstone Fire Station\Revit 2025\Riverstone Fire Station_Structural - Const.rvt



FOUNDATION PLAN

1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEET S0.01 & S0.02.
2. SEE SHEETS S1.01 THRU S1.07 FOR TYPICAL DETAILS & S3.01 THRU S3.03 FOR WALL ELEVATIONS
3. TOP OF SLAB & GROUND FLOOR REFERENCE ELEVATION = +[0' - 0"] TYP, U.N.O.
4. FOR DETAILED SOILS INFORMATION AND COMPLETE REQUIREMENTS, REFER TO SOILS REPORT. ALL EARTHWORK SHALL BE PERFORMED IN COMPLIANCE WITH THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL ENGINEERING INVESTIGATION REPORT PREPARED BY KRAZAN & ASSOCIATES, INC. DATED JUNE 22, 2022 (KA PROJECT NO. 012-22085).
5. SEE CIVIL DRAWINGS FOR BUILDING PAD PREPARATION, INCLUDING OVER EXCAVATION AND FILL REQUIREMENTS PER THE SOILS REPORT FOR DETAILED SOILS INFORMATION AND COMPLETE REQUIREMENTS, REFER TO SOILS REPORT.
6. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS AND INFORM BOTH ARCHITECT AND ENGINEER OF ANY CONFLICTING INFORMATION.
7. THE SIZE & LOCATION OF ALL FOOTING AND SLAB PENETRATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.
8.
   A. 5" THICK SLAB-ON-GRADE SECTION AS FOLLOWS: 5" THICK CONCRETE SLAB w/ #4 @ 18" O.C. EACH WAY AT 2" BELOW TOP OF SLAB. PLACE SLAB OVER SLAB MEMBRANE AND 4" OF 3/4" CRUSHED ROCK. AT SLOPE TO DRAIN AREAS, INCREASE SLAB THICKNESS BY 1". SLOPE SLAB TO DRAIN PER A-141
   B. 6" THICK SLAB-ON-GRADE SECTION AS FOLLOWS: 5" THICK CONCRETE SLAB w/ #4 @ 18" O.C. EACH WAY AT 2" BELOW TOP OF SLAB. PLACE SLAB OVER SLAB MEMBRANE AND 4" OF 3/4" CRUSHED ROCK. SLOPE SLAB TO DRAIN PER A-141.
9. 8" THICK SLAB-ON-GRADE SECTION AS FOLLOWS: 8" THICK CONCRETE SLAB w/ #4 @ 18" O.C. EACH WAY TOP & BOTTOM (BOTTOM MAT 2" CLR TO MEMBRANE) PLACE SLAB OVER SLAB MEMBRANE, AND 4" OF 3/4" CRUSHED ROCK.
10. CONTROL JOINTS ARE TO BE INSTALLED @ 12'-6" O.C. MAX @ 5" SLABS AND 20'-0" O.C. MAX @ 8" SLABS AS SHOWN.
11. CONCRETE CONTRACTOR IS RESPONSIBLE FOR THE PLACEMENT OF ALL EMBEDDED ITEMS.
12. ANCHOR BOLTS AND BASE PLATES SHALL NOT BE WET SET.
13. ALL DIMENSIONS ARE TO CENTERLINE OF COLUMNS, FACE OF MASONRY, OR FACE OF PLY TYPICAL UNLESS NOTED OTHERWISE.
14. STUDWALL CONSTRUCTION SHALL BE: 2x6 STUDS @ 16" O.C., U.N.O. 2x6 PT SILL PLATE, U.N.O. 5/8" Ø. AB @ 48" O.C. W/ 8" MIN EMBED BELOW TOP OF SLAB. THE OUTSIDE FACE OF EXTERIOR WALLS SHALL BE SHEATHED W/ 1/2" CDX PLYWOOD. EDGE NAILING SHALL BE 8d @ 6" O.C. AND FIELD NAILING SHALL BE 8d @ 12" O.C., U.N.O.
15. SEE ARCHITECTURAL DRAWINGS FOR CURB LOCATIONS.
16. ALL 4x & 6x POSTS SHALL BE SUPPORTED WITH SIMPSON ABU POST BASES W/ 5/8" Ø x 8" EMBED ANCHOR BOLTS, U.N.O.
17. ALL HSS COLUMNS TO BE SUPPORTED ON BASE PL PER 5/S1.02 WITH B.O. COL AT TOP OF FOOTING, UNO. PROVIDE SLAB BLOCKOUT AS REQUIRED. HSS COLUMNS WITHIN WOOD STUD WALL SHALL BE CENTERED IN THE WALL STUD WIDTH, UNO

18. 1/SX.X SIM — INDICATES DETAIL/SECTION VIEW WITH VIEW DIRECTION ARROW, DETAIL NUMBER AND SHEET REFERENCE.
19. (1) — INDICATES GRID
20. INDICATES STEP/DEPRESSION 5/S1.02
21. -[0'-2"] — INDICATES DEPRESSED SLAB ELEVATION. VERIFY DEPRESSION W/ ARCHITECTURAL. SAD FOR LIMITS OF DEPRESSED AREAS.
22. INDICATES FOOTING.
23. -1'-4" — INDICATES TOP OF FOOTING ELEVATION BELOW TOP OF SLAB. TOP OF FOOTING SHALL BE 1'-4" BELOW TOP OF SLAB, UNO.
24. [A] — INDICATES FOUNDATION TAG. SEE SCHEDULE.
25. INDICATES STUDWALL, SEE NOTE 14.
26. INDICATES 8" CONCRETE MASONRY (CMU) BLOCK WALL. WALL REINFORCEMENT SHALL BE #5 @ 16" OC VERTICALLY AND #5 @ 16" OC HORIZONTALLY U.N.O. SEE S1.03 & S1.04 FOR ADDITIONAL WALL REINFORCEMENT INFORMATION.
27. INDICATES 12" CONCRETE MASONRY (CMU) BLOCK WALL. WALL REINFORCEMENT SHALL BE 2-#5 @ 16" VERTICALLY AND 2-#5 @ 24" OC HORIZONTALLY U.N.O. SEE S1.03 & S1.04 FOR ADDITIONAL WALL REINFORCEMENT INFORMATION.
28. A / L = X' - X" — INDICATES SHEARWALL CONSTRUCTION WITH NAILING AND MINIMUM LENGTH PER SHEARWALL SCHEDULE ON 1/S1.06
29. (1) — INDICATES HOLDOWN. SEE SCHEDULE PER 2/S1.06
30. NOT USED
31. INDICATES SLAB SLOPE, SEE ARCH DRAWINGS FOR EXTENTS.
32. S— — —S — INDICATES FOOTING STEP PER 9/S1.01

FOOTING SCHEDULE						
TYPE	FOOTING SIZE			REINFORCING		REMARKS
	LENGTH	WIDTH	DEPTH	LONGITUDINAL	TRANSVERSE	
A	3'-6"	3'-6"	2'-0"	4 - #6	4 - #6	1
B	4'-9"	4'-9"	2'-0"	5 - #6	5 - #6	1
C	2'-6"	2'-6"	1'-6"	4 - #5	4 - #5	1

NOTES:
1. REINFORCING INDICATES TOP AND BOTTOM MAT.

rrm design group

rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER — DUSTIN G. LEE — No. 5963 — EXP. 3/31/27 — STRUCTURAL — STATE OF CALIFORNIA

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED PUBLICATION OF RRM DESIGN GROUP'S COPYRIGHT.

RRM DESIGN GROUP COPYRIGHT 2022.
RRM IS A CALIFORNIA CORPORATION

CORNERSTONE structural engineering group

9 River Park Place East, Suite 330
Fresno, California 93720
559.320.3200
fax 559.320.3201

RIVERSTONE FIRE STATION

PROJECT STREET ADDRESS
CITY, STATE, ZIP CODE

FOUNDATION PLAN

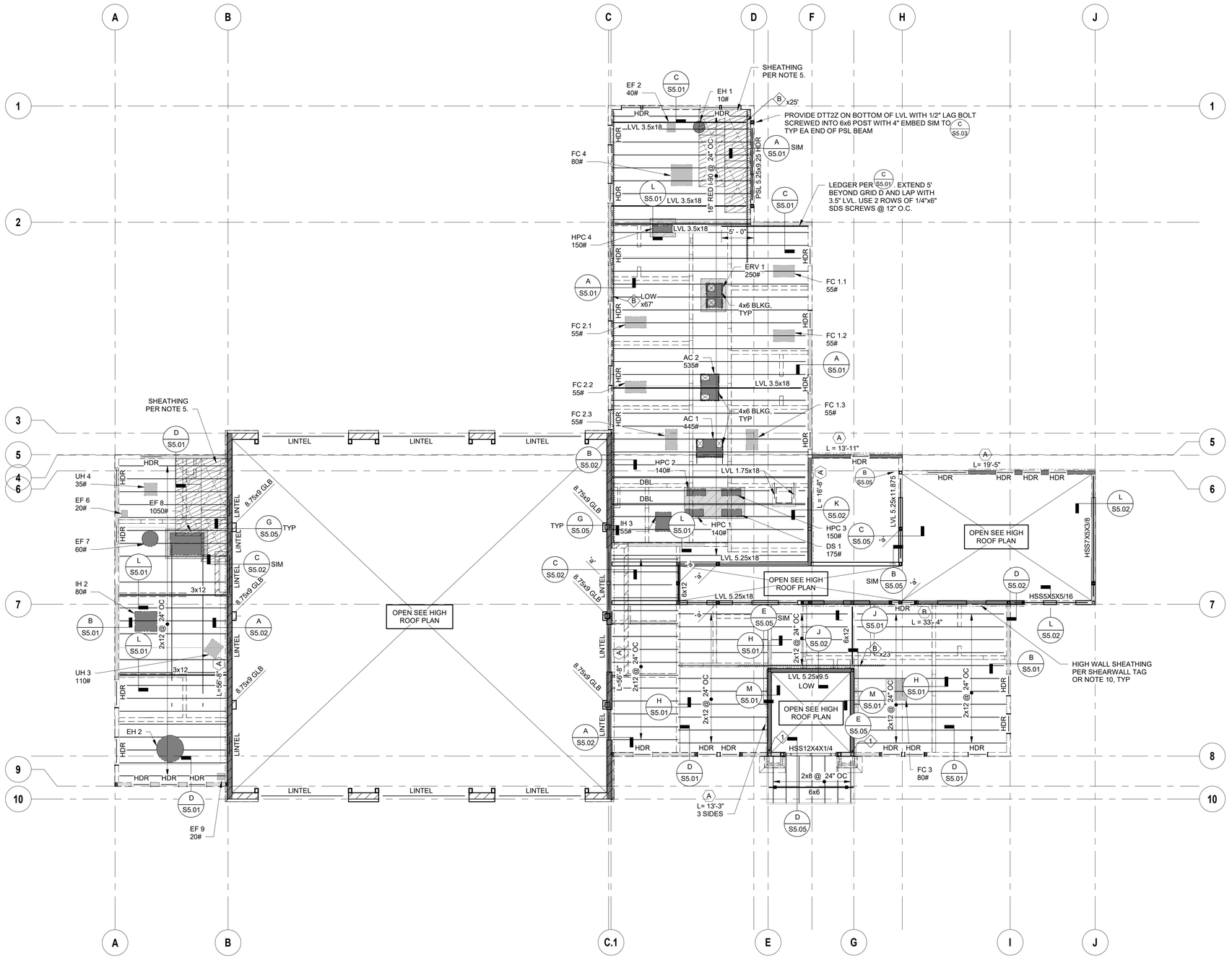
NO.	REVISION	DATE

PROJECT MANAGER: DGL
DRAWN BY: MEW/DAA
CHECKED BY: DGL
DATE: MAY 2026
PROJECT NUMBER: 2021034
SHEET: S2.01

BID DOCUMENTS

County of Madera – CBD Building and Fire Safety Division — Approved under the 2022 California Building Code — Date 05/04/2026

4/29/2026 1:39:29 PM
W:\2021\2021034 Riverstone Fire Station\Revit 2025\Riverstone Fire Station_Structural - Const.rvt



LOW ROOF FRAMING PLAN

1/8" = 1'-0"

ROOF FRAMING NOTES:

1. REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEETS S0.01 & S0.02.
2. SEE SHEETS S1.01 THRU S1.07 FOR TYPICAL DETAILS & S3.01 THRU S3.03 FOR WALL ELEVATIONS
3. SEE ARCHITECTURAL DRAWINGS FOR ROOF ELEVATIONS.
4. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS AND INFORM BOTH ARCHITECT AND ENGINEER OF ANY CONFLICTING INFORMATION.
5. ROOF SHEATHING SHALL CONSIST OF 1/2" CDX PLYWOOD W/ 10d @ 4" O.C. AT BOUNDARIES AND EDGES, 10d @ 12" O.C. FIELD NAILING. ALL PLYWOOD EDGES SHALL BE FULLY BLOCKED TYPICAL, U.N.O.
6. ROOF DIAPHRAGM FASTENING SHALL BE APPROVED BY BUILDING DEPARTMENT PRIOR TO COVERING.
7. INSTALL EXTRA 2x6 AT RIDGE LOCATIONS WHERE NECESSARY.
8. SEE ARCHITECTURAL DRAWINGS FOR SIZE & LOCATION OF ROOF OPENINGS.
9. VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS. NOTIFY STRUCTURAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES, TYPICAL U.N.O.
10. STUDWALL CONSTRUCTION SHALL BE: 2x6 STUDS @ 16" O.C., U.N.O. 2x6 PT SILL PLATE, U.N.O. 5/8" Ø. AB @ 48" O.C. W/ 8" MIN EMBED BELOW TOP OF SLAB. THE OUTSIDE FACE OF EXTERIOR WALLS SHALL BE SHEATHED W/ 1/2" CDX PLYWOOD. EDGE NAILING SHALL BE 8d @ 6" O.C. AND FIELD NAILING SHALL BE 8d @ 12" O.C., U.N.O.
11. FIRE SPRINKLER PIPING SHALL NOT BE SUPPORTED BY MEMBERS 6" OR LESS IN DEPTH. DESIGN OF THE ATTACHMENT TO THE SUPPORTING MEMBERS SHALL BE THE RESPONSIBILITY OF THE SPRINKLER INSTALLER.
12. THE SIZE, LOCATIONS AND ORIENTATIONS OF ALL MECHANICAL UNITS, CURBS, SLEEPERS AND OPENINGS SHALL BE VERIFIED WITH THE UNIT SUPPLIERS. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMMEDIATELY.
13. (c=+1 1/2") INDICATS CAMBER IN GLUE-LAMINATED BEAMS. ALL GLUE-LAMINATED BEAMS SHALL HAVE STANDARD 3500' RADIUS CAMBER UNO.
14. ROOF JOISTS SHALL BE BRIDGED EVERY 10 FEET BY SOLID 2X BLOCKING OR BY 1x3 WOOD CROSS BRIDGING OR NAILED STEEL CROSS BRIDGING OF EQUAL STRENGTH.
15. ALL RAFTER TO BEAM/GIRDER CONNECTIONS SHALL BE W/ SIMPSON HU HANGERS, U.N.O.
16. CONTRACTOR TO USE SKEWED HANGERS IN LIEU OF HANGER SHOWN AS REQUIRED.
17. ALL 4x BEAM TO POST CONNECTIONS SHALL BE WITH EPC OR PC POST CAPS, U.N.O.
18. ALL 6x BEAM OR GL BEAM TO POST CONNECTIONS SHALL BE WITH ECC OR CC COLUMN CAPS, U.N.O. SEE 7/S1.07
19. WHERE (2) OR MORE SOLID SAWN JOISTS/RAFTERS ARE COMBINED, SEE DETAIL 6/S1.07

19. 1/SX.X SIM — INDICATES DETAIL/SECTION VIEW WITH VIEW DIRECTION ARROW, DETAIL NUMBER AND SHEET REFERENCE.
20. 1 — INDICATES GRID
21. A, L = X' - X" — INDICATES SHEARWALL CONSTRUCTION WITH NAILING AND MINIMUM LENGTH PER SHEARWALL SCHEDULE ON 1/S1.06
22. INDICATES STUDWALL BELOW.
23. INDICATES SHEARWALL BELOW.
24. INDICATES CONCRETE MASONRY (CMU) BLOCK WALL BELOW.
25. INDICATES DIRECTION OF ROOF SLOPE.
26. INDICATES NEW MECHANICAL UNITS ABOVE ROOF. USE 4x6 BLKG AROUND PERIMETER PER 6A/S1.06 6B/S1.06 INCLUDE PLATFORM AS NOTED IN MECH DWGS
    600# INDICATES MAXIMUM UNIT WEIGHT.
27. INDICATES NEW MECHANICAL UNITS BELOW ROOF. SEE MECHANICAL DRAWINGS FOR CONNECTIONS TO STRUCTURE.
    600# INDICATES MAXIMUM UNIT WEIGHT.
28. INDICATES FRAMED DECK OPENING.
29. INDICATES BRACE UP.
30. 'a' — INDICATES 6x6 KING POST. ATTACH TO BEAM BELOW WITH POST BASE PER C/S5.05
31. INDICATES CHANGE IN SLOPE.
32. INDICATES SIMPSON STRAP, SEE PLAN.
33. A — INDICATES SEISMIC TIE, SEE SCHEDULE BELOW.
34. LINTEL — INDICATES CMU LINTEL PER 2/S1.04
35. HDR — INDICATES HEADER PER SCHEDULE. SEE 1/S1.05
36. INDICATES WOOD PLATFORM PER 7/M-003 & 6A/S1.06 PROVIDE 4x6 BLKG AROUND PERIMETER

SEISMIC TIE SCHEDULE		
TYPE	DESCRIPTION	NOTES
A	SIMPSON CMST12 W/ 2 ROWS OF 16d @ 3 1/2" OC	SPLICE AS REQ'D. LAP STRAP 18" & PROVIDE MIN 18-16d NAILS. PROVIDE 4x6 FLAT BLOCKING AS REQ'D
B	SIMPSON CS14 W/ 2 ROWS OF 10d @ 2 1/16" OC	SPLICE AS REQ'D. LAP STRAP 9" & PROVIDE MIN 6-10d NAILS. PROVIDE 4x6 FLAT BLOCKING AS REQ'D
C	SIMPSON CMSTC16 W/ 2 ROWS OF 10d @ 2 1/16" OC	SPLICE AS REQ'D. LAP STRAP 10" & PROVIDE MIN 11-10d NAILS. PROVIDE 4x6 FLAT BLOCKING AS REQ'D

BID DOCUMENTS

4/29/2026 1:39:30 PM
W:\2021\2021034 Riverstone Fire Station\Revit 2025\Riverstone Fire Station_Structural - Const.rvt

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER DUSTIN G. LEE No. 5963 EXP. 3/31/27 STRUCTURAL STATE OF CALIFORNIA

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED PUBLICATION. RRM DESIGN GROUP COPYRIGHT 2022.
RRM IS A CALIFORNIA CORPORATION

CORNERSTONE structural engineering group
9 River Park Place East, Suite 330
Fresno, California 93720
559.320.3200
fax 559.320.3201

RIVERSTONE FIRE STATION

PROJECT STREET ADDRESS
CITY, STATE, ZIP CODE

LOW ROOF FRAMING PLAN

NO.	REVISION	DATE

PROJECT MANAGER: DGL
DRAWN BY: MEW/DAA — CHECKED BY: DGL
DATE: MAY 4, 2026
PROJECT NUMBER: 2021034
SHEET: S2.02

County of Madera – CFD Building and Fire Safety Plans Approved Under the 2022 California Building Codes. This approval does not constitute a building permit or authorization to begin any work. Date 05/04/2026 without signature

Reviewed for Code and Ordinance, not valid without signature

ROOF FRAMING NOTES:

1. REFER TO GENERAL NOTES & SPECIFICATIONS ON SHEETS S0.01 & S0.02.
2. SEE SHEETS S1.01 THRU S1.07 FOR TYPICAL DETAILS & S3.01 THRU S3.03 FOR WALL ELEVATIONS
3. SEE ARCHITECTURAL DRAWINGS FOR ROOF ELEVATIONS.
4. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS AND INFORM BOTH ARCHITECT AND ENGINEER OF ANY CONFLICTING INFORMATION.
5. ROOF SHEATHING SHALL CONSIST OF 1/2" CDX PLYWOOD W/ 10d @ 4" O.C. AT BOUNDARIES AND EDGES, 10d @ 12" O.C. FIELD NAILING. ALL PLYWOOD EDGES SHALL BE FULLY BLOCKED TYPICAL, U.N.O.
6. ROOF DIAPHRAGM FASTENING SHALL BE APPROVED BY BUILDING DEPARTMENT PRIOR TO COVERING.
7. INSTALL EXTRA 2x6 AT RIDGE LOCATIONS WHERE NECESSARY.
8. SEE ARCHITECTURAL DRAWINGS FOR SIZE & LOCATION OF ROOF OPENINGS.
9. VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ARCHITECTURAL DRAWINGS AND MECHANICAL DRAWINGS. NOTIFY STRUCTURAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES, TYPICAL U.N.O.
10. FIRE SPRINKLER PIPING SHALL NOT BE SUPPORTED BY MEMBERS 6" OR LESS IN DEPTH. DESIGN OF THE ATTACHMENT TO THE SUPPORTING MEMBERS SHALL BE THE RESPONSIBILITY OF THE SPRINKLER INSTALLER.
11. THE SIZE, LOCATIONS AND ORIENTATIONS OF ALL MECHICAL UNITS, CURBS, SLEEPERS AND OPENINGS SHALL BE VERIFIED WITH THE UNIT SUPPLIERS. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMMEDIATELY.
12. (c=+1 1/2") INDICATS CAMBER IN GLUE-LAMINATED BEAMS. ALL GLUE-LAMINATED BEAMS SHALL HAVE STANDARD 3500' RADIUS CAMBER UNO.
13. ROOF JOISTS SHALL BE BRIDGED EVERY 10 FEET BY SOLID 2X BLOCKING OR BY 1x3 WOOD CROSS BRIDGING OR NAILED STEEL CROSS BRIDGING OF EQUAL STRENGTH.
14. ALL RAFTER TO BEAM/GIRDER CONNECTIONS SHALL BE W/ SIMPSON HU HANGERS, U.N.O.
15. CONTRACTOR TO USE SKEWED HANGERS IN LIEU OF HANGER SHOWN AS REQUIRED.
16. ALL 4x BEAM TO POST CONNECTIONS SHALL BE WITH EPC OR PC POST CAPS, U.N.O.
17. ALL 6x BEAM OR GL BEAM TO POST CONNECTIONS SHALL BE WITH

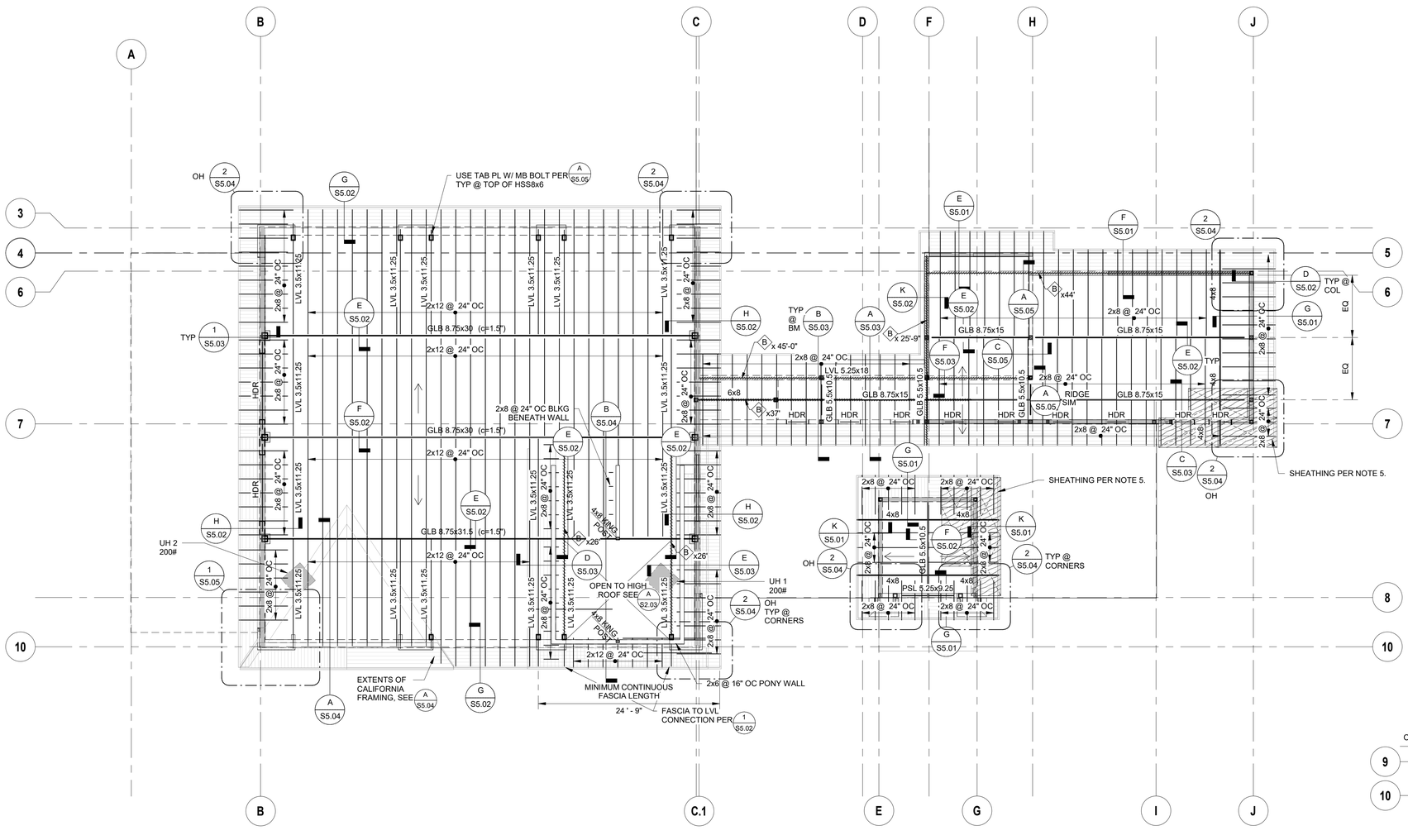
    ECC OR CC COLUMN CAPS, U.N.O. SEE (7/S1.07)
18. WHERE (2) OR MORE SOLID SAWN JOISTS/RAFTERS ARE

    COMBINED, SEE DETAIL (6/S1.07)
19. (1/SX.X SIM) INDICATES DETAIL/SECTION VIEW WITH VIEW DIRECTION ARROW, DETAIL NUMBER AND SHEET REFERENCE.
20. (1) INDICATES GRID
21. (A, L=X'-X") INDICATES SHEARWALL CONSTRUCTION WITH NAILING AND MINIMUM LENGTH PER SHEARWALL SCHEDULE ON (1/S1.06)
22. INDICATES STUDWALL BELOW.
23. INDICATES SHEARWALL BELOW.
24. INDICATES CONCRETE MASONRY (CMU) BLOCK WALL BELOW.
25. INDICATES DIRECTION OF ROOF SLOPE.
26. INDICATES NEW MECHANICAL UNITS ABOVE ROOF. SEE MECHANICAL DRAWINGS FOR CONNECTIONS TO STRUCTURE.

    600# INDICATES MAXIMUM UNIT WEIGHT.
27. INDICATES NEW MECHANICAL UNITS BELOW ROOF. SEE MECHANICAL DRAWINGS FOR CONNECTIONS TO STRUCTURE.

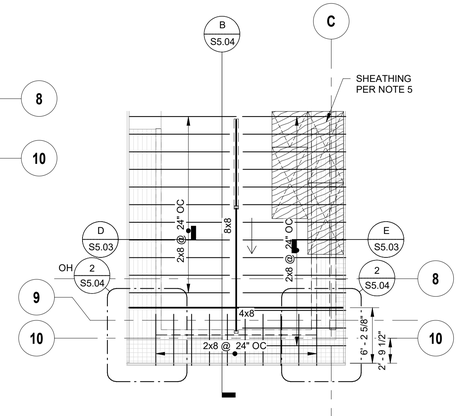
    600# INDICATES MAXIMUM UNIT WEIGHT.
28. INDICATES FRAMED DECK OPENING.
29. INDICATES BRACE UP.
30. 'a' INDICATES 6x6 KING POST
31. INDICATES CHANGE IN SLOPE.
32. INDICATES SIMPSON STRAP, SEE PLAN.
33. (A) INDICATES SEISMIC TIE, SEE SCHEDULE BELOW.
34. LINTEL INDICATES CMU LINTEL PER (2/S1.04)
35. HDR INDICATES HEADER PER SCHEDULE. SEE (1/S1.05)

SEISMIC TIE SCHEDULE		
TYPE	DESCRIPTION	NOTES
A	SIMPSON CMST12 W/ 2 ROWS OF 16d @ 3 1/2" OC	SPLICE AS REQ'D. LAP STRAP 18" & PROVIDE MIN 18-16d NAILS. PROVIDE 4x6 FLAT BLOCKING AS REQ'D
B	SIMPSON CS14 W/ 2 ROWS OF 10d @ 2 1/16" OC	SPLICE AS REQ'D. LAP STRAP 9" & PROVIDE MIN 6-10d NAILS. PROVIDE 4x6 FLAT BLOCKING AS REQ'D
C	SIMPSON CMSTC16 W/ 2 ROWS OF 10d @ 2 1/16" OC	SPLICE AS REQ'D. LAP STRAP 10" & PROVIDE MIN 11-10d NAILS. PROVIDE 4x6 FLAT BLOCKING AS REQ'D



HIGH ROOF FRAMING PLAN

1/8" = 1'-0"



HIGH ROOF POP OUT FRAMING PLAN

1/8" = 1'-0"

A S2.03

BID DOCUMENTS

rrm design group

rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER — DUSTIN G. LEE — No. 5963 — EXP. 3/31/27 — STRUCTURAL — STATE OF CALIFORNIA

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED A PUBLICATION OR ANY CONSTITUTE LOSS OF COPYRIGHTS.

RRM DESIGN GROUP COPYRIGHT 2022.
RRM IS A CALIFORNIA CORPORATION

CORNERSTONE structural engineering group

9 River Park Place East, Suite 330
Fresno, California 93720
559.320.3200
fax 559.320.3201

RIVERSTONE FIRE STATION

PROJECT STREET ADDRESS
CITY, STATE, ZIP CODE

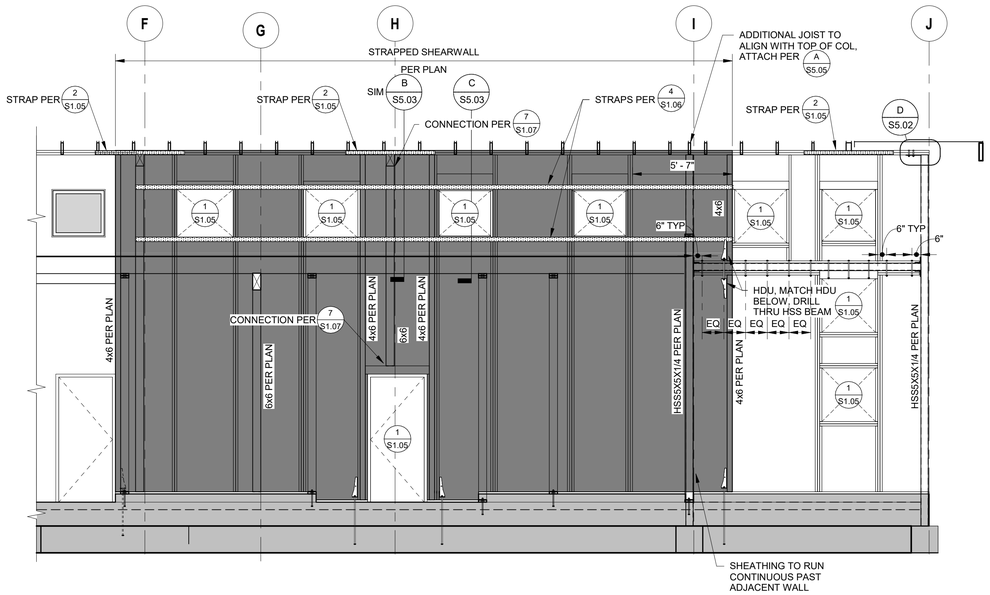
HIGH ROOF FRAMING PLAN

NO.	REVISION	DATE

PROJECT MANAGER: DGL
DRAWN BY: MEW/DAA | CHECKED BY: DGL
DATE: MAY 4, 2026
PROJECT NUMBER: 2021034
SHEET: S2.03

County of Madera – CDD Building and Fire Safety Division — Plans Approved under the 2022 California Building Code — Date 05/04/2026 — Permit Number

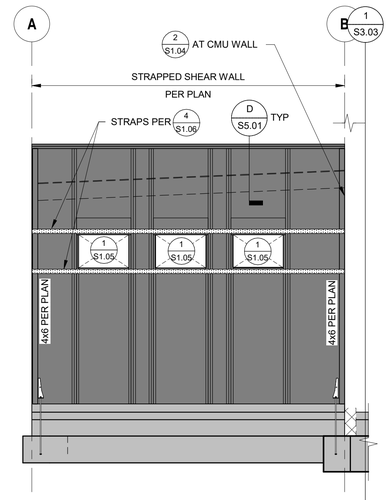
4/29/2026 1:39:31 PM
W:\2021\2021034 Riverstone Fire Station\Revit 2025\Riverstone Fire Station_Structural - Const.rvt



GRID 7 SHEARWALL ELEVATION

1/4" = 1'-0"

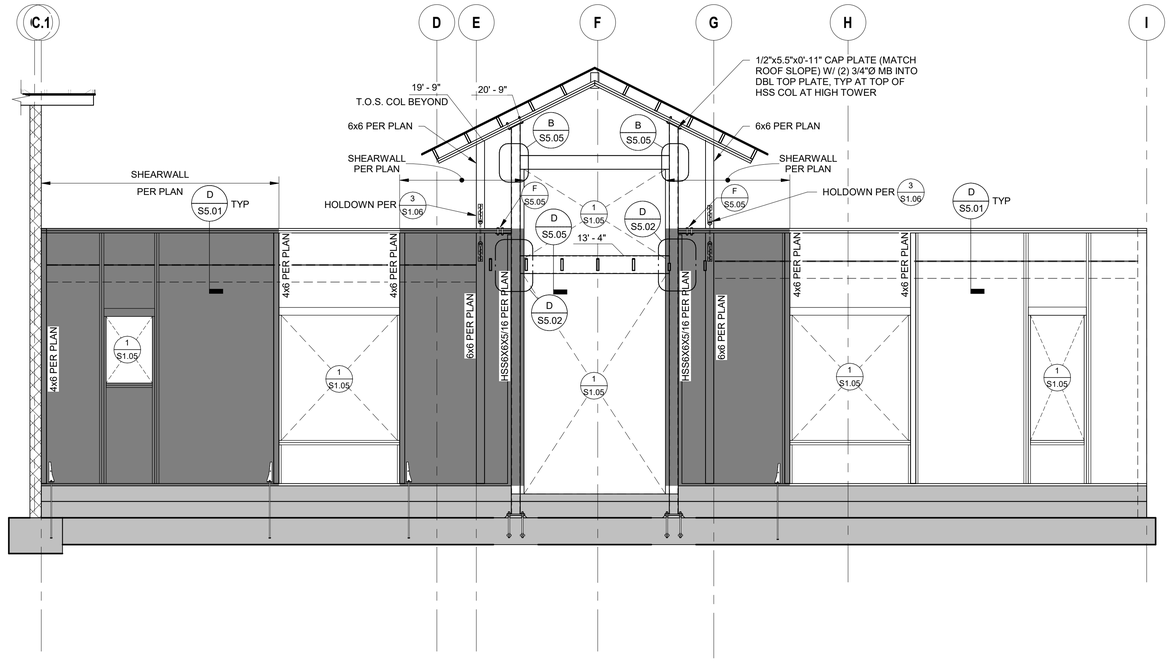
1 / S3.01



GRID 9 SHEARWALL ELEVATION

1/4" = 1'-0"

2 / S3.01



GRID 8 SHEARWALL ELEVATION

1/4" = 1'-0"

3 / S3.01

rrm design group

rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER
DUSTIN G. LEE
No. 33601
EXP. 3/31/27
STRUCTURAL
STATE OF CALIFORNIA

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED A PUBLICATION OR A RELEASE OF COPYRIGHT RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2022.
RRM IS A CALIFORNIA CORPORATION

CORNERSTONE
structural engineering group

9 River Park Place East, Suite 330
Fresno, California 93720
559.320.3200
fax 559.320.3201

BID DOCUMENTS

RIVERSTONE FIRE STATION

PROJECT STREET ADDRESS
CITY, STATE, ZIP CODE

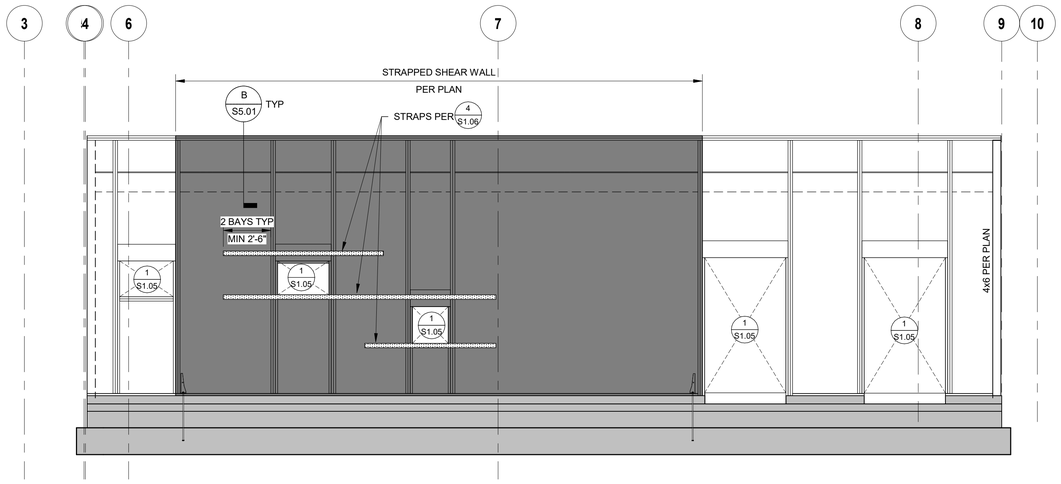
WALL ELEVATIONS No. 1

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

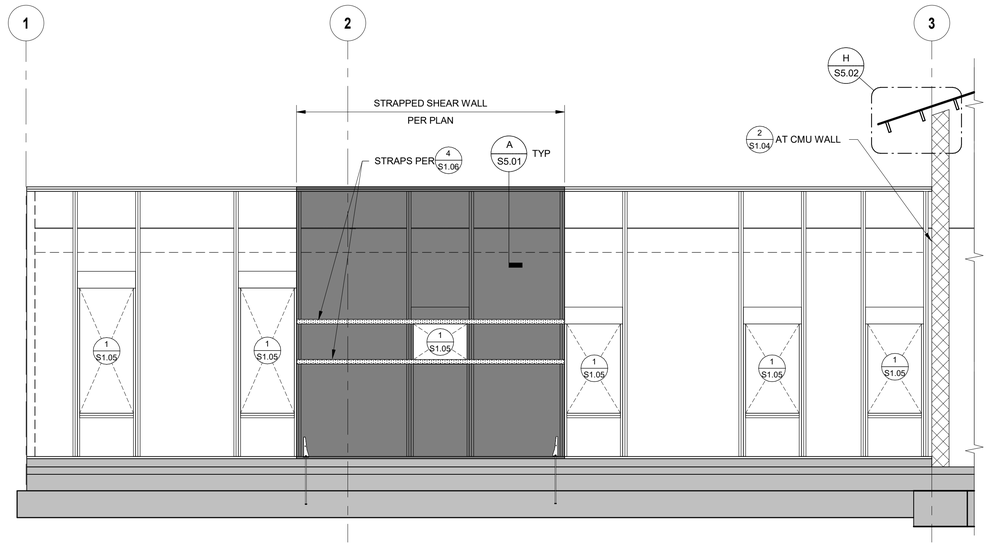
PROJECT MANAGER: DGL
DRAWN BY: MEW/DAA
CHECKED BY: DGL
DATE: MAY 6, 2026
PROJECT NUMBER: 2021034
SHEET: S3.01

County of Madera – CBD Building Division – Building and Fire Safety
Approved Submittal Under the 2022 California Building Code
Date: 05/04/2026
Approved plans must be on site at all times without signature

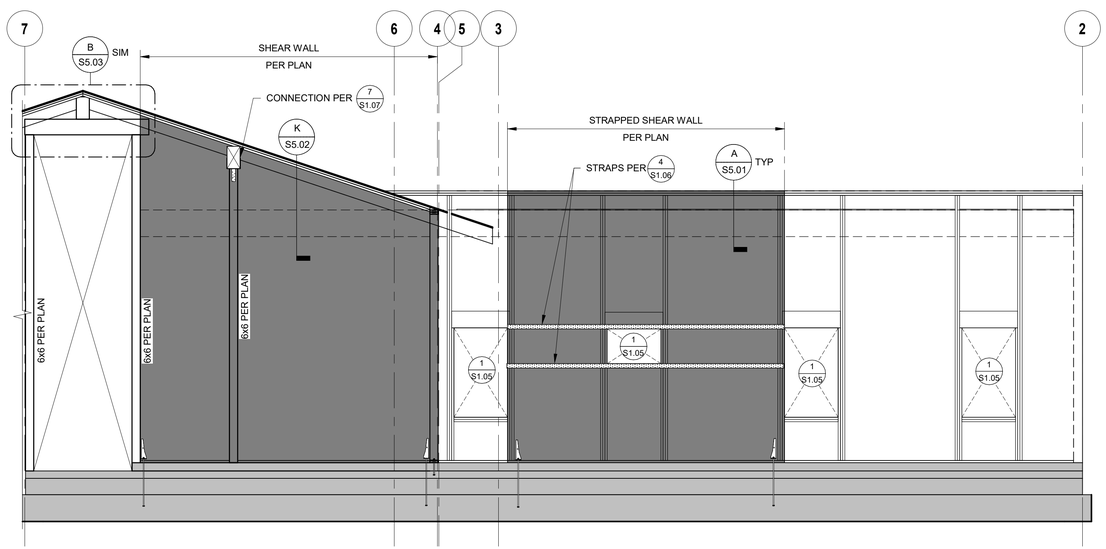
4/29/2026 1:39:32 PM
W:\2021\2021034 Riverstone Fire Station\Revit 2026\Riverstone Fire Station_Structural - Const.rvt



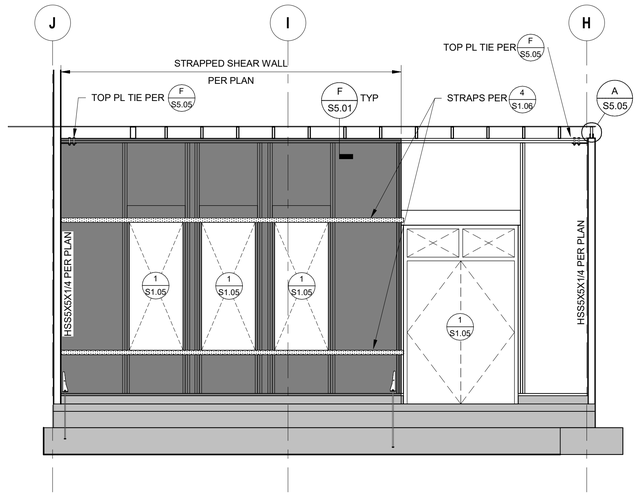
GRID A SHEARWALL ELEVATION — 1/4" = 1'-0" — 1 / S3.02



GRIC C SHEARWALL ELEVATION — 1/4" = 1'-0" — 2 / S3.02



GRID F SHEARWALL ELEVATION — 1/4" = 1'-0" — 3 / S3.02



GRID 6 SHEARWALL ELEVATION — 1/4" = 1'-0" — 4 / S3.02

BID DOCUMENTS

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER — DUSTIN G. LEE — No. S9631 — EXP. 3/31/27 — STRUCTURAL — STATE OF CALIFORNIA

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S COPYRIGHT.
RRM DESIGN GROUP COPYRIGHT 2022.
RRM IS A CALIFORNIA CORPORATION

CORNERSTONE structural engineering group
9 River Park Place East, Suite 330
Fresno, California 93720
559.320.3200
fax 559.320.3201

RIVERSTONE FIRE STATION

PROJECT STREET ADDRESS
CITY, STATE, ZIP CODE

WALL ELEVATIONS No. 2

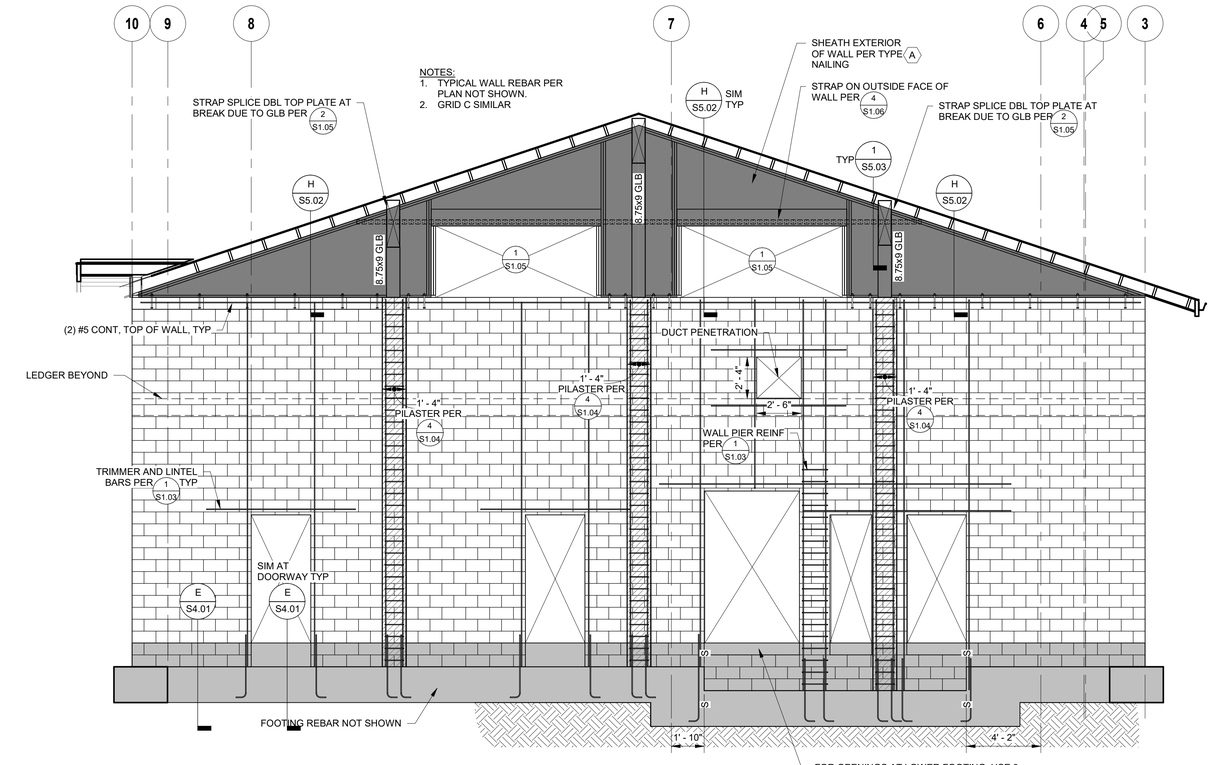
NO.	REVISION	DATE

PROJECT MANAGER: DGL
DRAWN BY: MEW/DAA
CHECKED BY: DGL
DATE: MAY 2026
Date: 05/04/2026
PROJECT NUMBER: 2021034
SHEET: S3.02

Approved Plans Must Conform to the 2022 California Building Code
County of Madera – CBD Building and Fire Safety
Building Division

Approved plans must be on jobsite at all times for inspection purposes. Compliance with approved plans and all applicable codes is required. Approval of plans does not authorize violations of any code or law. Any deviations must be approved in writing and may require additional plan review fees. Permit is void if any false statements or misrepresentations have been made. Void if construction or work is not commenced within 180 days of permit issuance or if construction or work is suspended or abandoned for a period of 180 days after work is commenced. Void if any changes are made to approved plans without approval. A new permit shall be required for any work that is commenced after the permit is void.
Date: 05/04/2026 without signature

4/29/2026 1:39:33 PM
W:\2021\2021034 Riverstone Fire Station\Revit 2026\Riverstone Fire Station_Structural - Const.rvt



GRID B WALL ELEVATION — 1 / S3.03

1/4" = 1'-0"

NOTES:
1. TYPICAL WALL REINF PER PLAN NOT SHOWN
2. GRID 3 SIM

GRID 10 WALL ELEVATION — 2 / S3.03

1/4" = 1'-0"

rrm design group

rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER — DUSTIN G. LEE — No. S9601 — EXP. 3/31/27 — STRUCTURAL — STATE OF CALIFORNIA

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED A PUBLICATION OF RRM DESIGN GROUP'S COPYRIGHT.

RRM DESIGN GROUP COPYRIGHT 2022.
RRM IS A CALIFORNIA CORPORATION

CORNERSTONE structural engineering group

9 River Park Place East, Suite 330
Fresno, California 93720
559.320.3200
fax 559.320.3201

RIVERSTONE FIRE STATION

PROJECT STREET ADDRESS
CITY, STATE, ZIP CODE

WALL ELEVATIONS No. 3

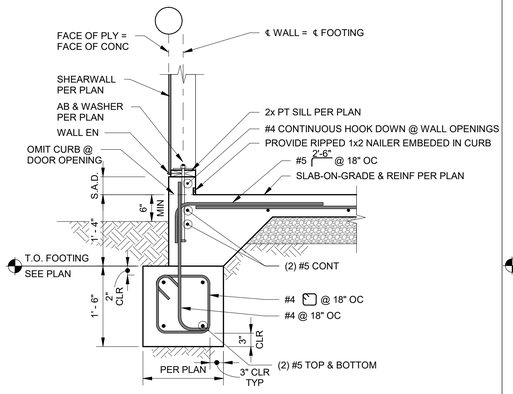
NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: DGL
DRAWN BY: MEW/DAA
CHECKED BY: DGL
DATE: MAY 4, 2026
PROJECT NUMBER: 2021034
SHEET: S3.03

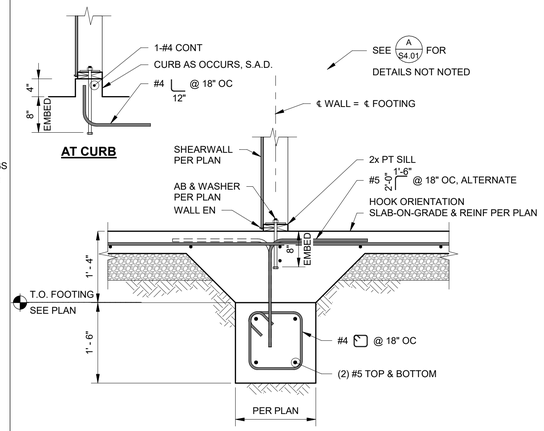
BID DOCUMENTS

County of Madera – CFD Building and Fire Safety Division Approved under the 2022 California Building Code

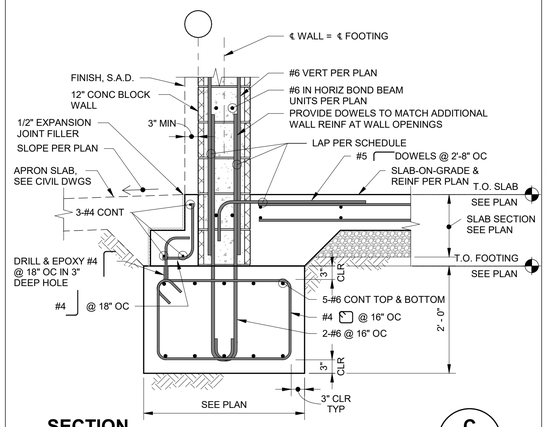
4/29/2026 1:39:33 PM
W:\2021\2021034 Riverstone Fire Station\Revit 2025\Riverstone Fire Station_Structural - Const.rvt



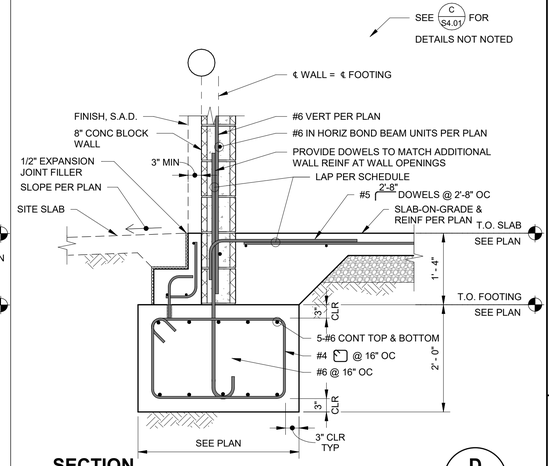
SECTION — 3/4" = 1'-0" — A / S4.01



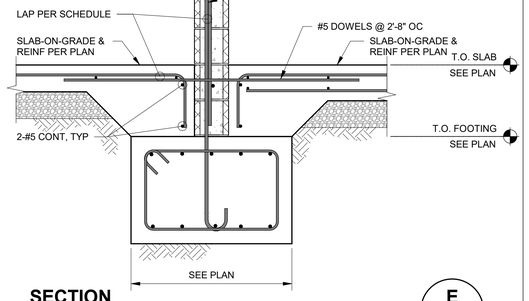
SECTION — 3/4" = 1'-0" — B / S4.01



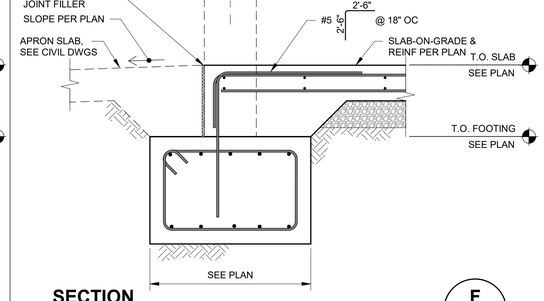
SECTION — 3/4" = 1'-0" — C / S4.01



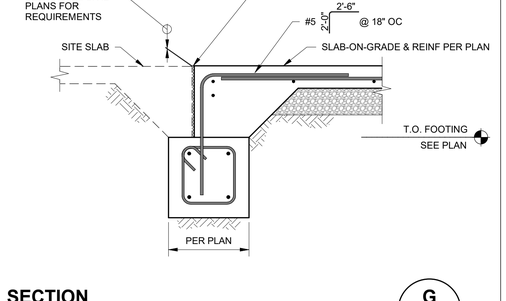
SECTION — 3/4" = 1'-0" — D / S4.01



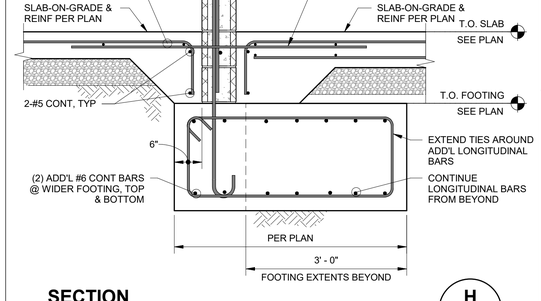
SECTION — 3/4" = 1'-0" — E / S4.01



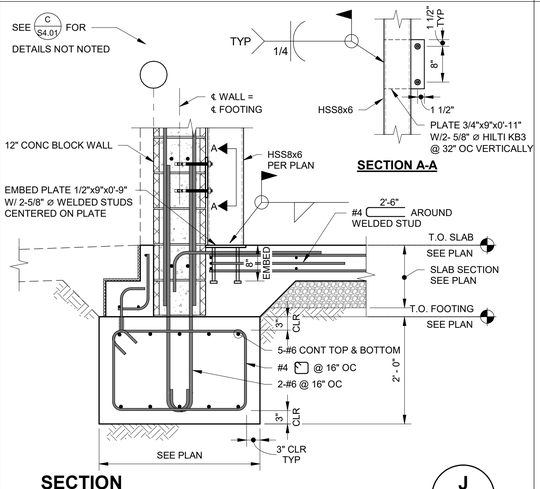
SECTION — 3/4" = 1'-0" — F / S4.01



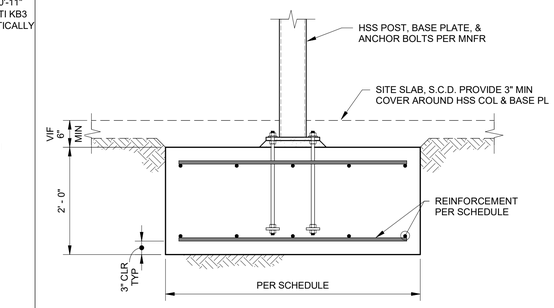
SECTION — 3/4" = 1'-0" — G / S4.01



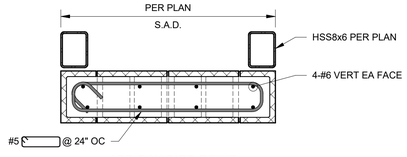
SECTION — 3/4" = 1'-0" — H / S4.01



SECTION — 3/4" = 1'-0" — J / S4.01



TYPICAL TRELLIS FOOTING — 3/4" = 1'-0" — K / S4.01



APP BAY PIER REINF
(TYP 4 LOCATIONS)

DETAIL — 3/4" = 1'-0" — 1 / S4.01

BID DOCUMENTS

4/29/2026 1:39:34 PM
W:\2021\2021034 Riverstone Fire Station\Revit 2025\Riverstone Fire Station_Structural - Const.rvt

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER — DUSTIN G. LEE — No. S9621 — EXP. 3/31/27 — STRUCTURAL — STATE OF CALIFORNIA

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED PUBLICATION OF RRM'S COPYRIGHT OR TRADE SECRET RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2022.
RRM IS A CALIFORNIA CORPORATION

CORNERSTONE structural engineering group
9 River Park Place East, Suite 330
Fresno, California 93720
559.320.3200
fax 559.320.3201

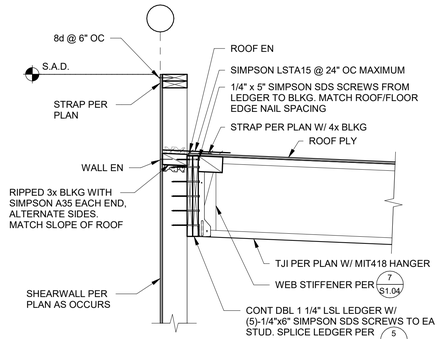
RIVERSTONE FIRE STATION
PROJECT STREET ADDRESS
CITY, STATE, ZIP CODE

FOUNDATION DETAILS

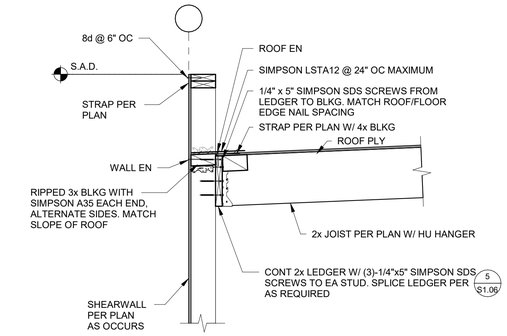
NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: DGL
DRAWN BY: MEW/DAA — CHECKED BY: DGL
DATE: MAY 4, 2026
PROJECT NUMBER: 2021034
SHEET: S4.01

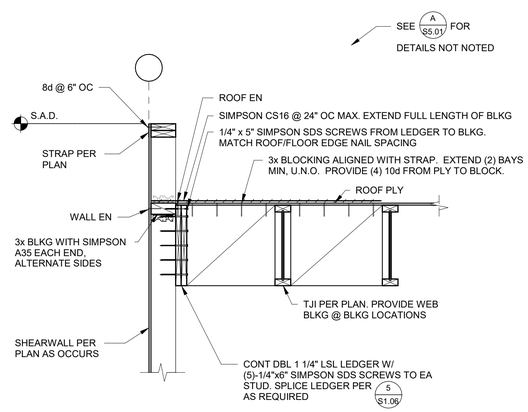
County of Madera – CFD Building Division — Approved — Under the 2022 California Building & Fire Safety Codes — Date: 05/04/2026 — Not to include Civil Ordinances, not under Building Division jurisdiction



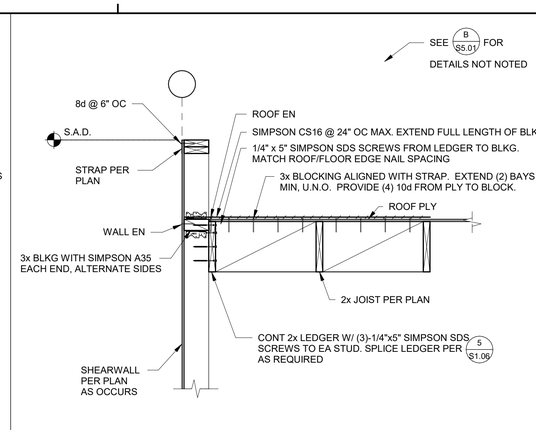
SECTION A — S5.01
3/4" = 1'-0"



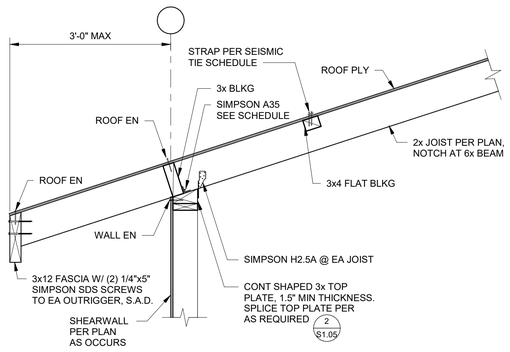
SECTION B — S5.01
3/4" = 1'-0"



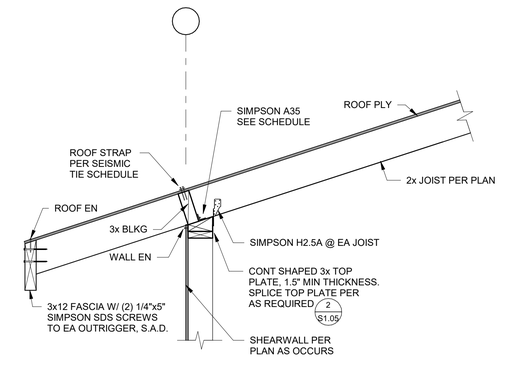
SECTION C — S5.01
3/4" = 1'-0"



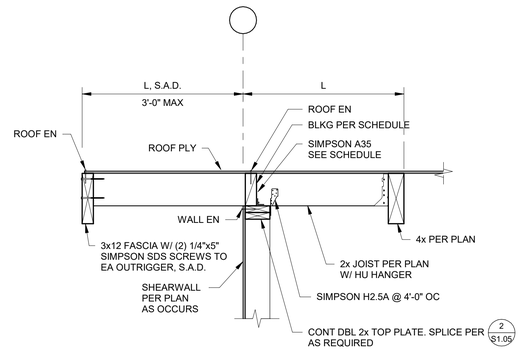
SECTION D — S5.01
3/4" = 1'-0"



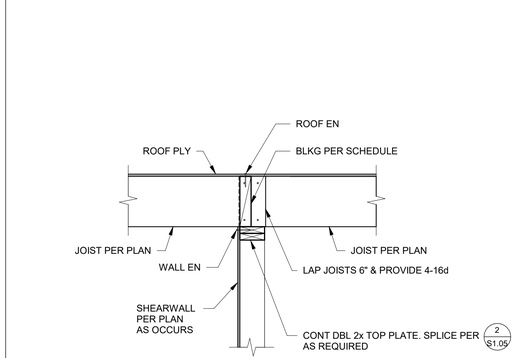
SECTION E — S5.01
3/4" = 1'-0"



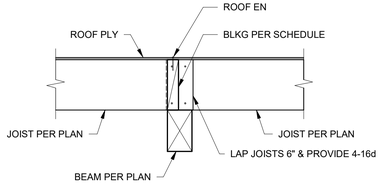
SECTION F — S5.01
3/4" = 1'-0"



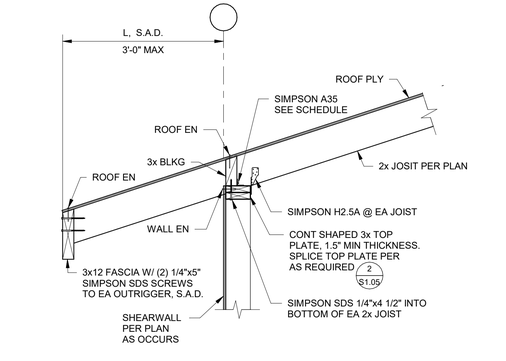
SECTION G — S5.01
3/4" = 1'-0"



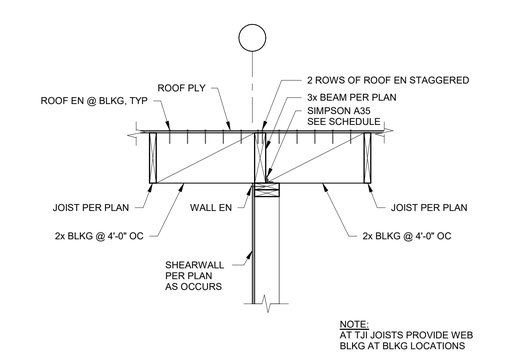
SECTION H — S5.01
3/4" = 1'-0"



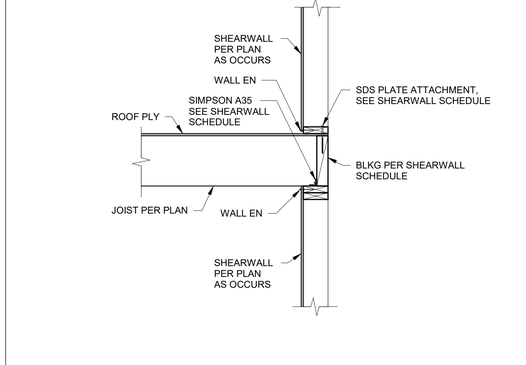
SECTION J — S5.01
3/4" = 1'-0"



SECTION K — S5.01
3/4" = 1'-0"



SECTION L — S5.01
3/4" = 1'-0"



SECTION M — S5.01
3/4" = 1'-0"

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER — DUSTIN G. LEE — No. S9621 — EXP. 3/31/27 — STRUCTURAL — STATE OF CALIFORNIA

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED PUBLICATION OF RRM DESIGN GROUP'S COPYRIGHT.
RRM DESIGN GROUP COPYRIGHT 2022.
RRM IS A CALIFORNIA CORPORATION

CORNERSTONE structural engineering group
9 River Park Place East, Suite 330
Fresno, California 93720
559.320.3200
fax 559.320.3201

RIVERSTONE FIRE STATION

PROJECT STREET ADDRESS
CITY, STATE, ZIP CODE

FRAMING DETAILS No. 1

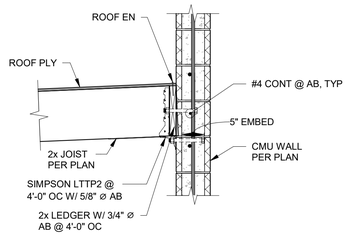
NO.	REVISION	DATE

PROJECT MANAGER: DGL
DRAWN BY: MEW/DAA — CHECKED BY: DGL
DATE: MAY 4, 2026
PROJECT NUMBER: 2021034
SHEET: S5.01

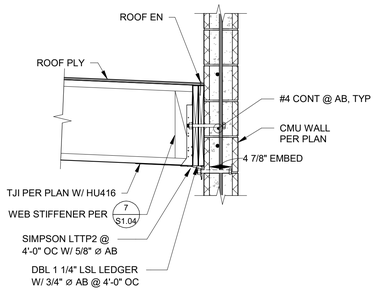
BID DOCUMENTS

County of Madera – CFD Building and Fire Safety Division Approved under the 2022 California Building Code and Ordinances, not valid without signature and seal. Date: 05/04/2026

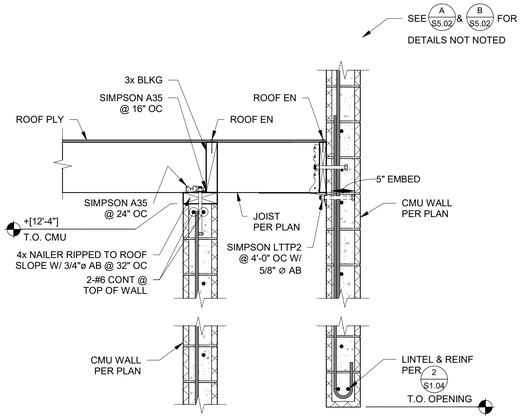
4/29/2026 1:39:35 PM
W:\2021\2021034 Riverstone Fire Station\Revit 2025\Riverstone Fire Station_Structural - Const.rvt



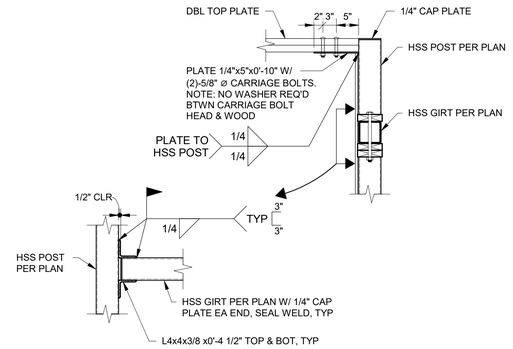
SECTION A — S5.02
3/4" = 1'-0"



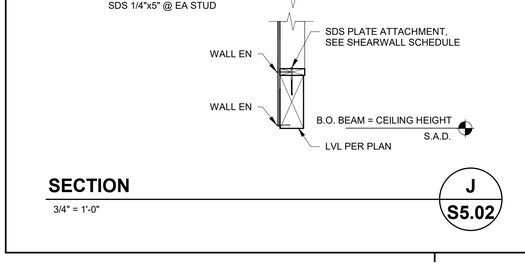
SECTION B — S5.02
3/4" = 1'-0"



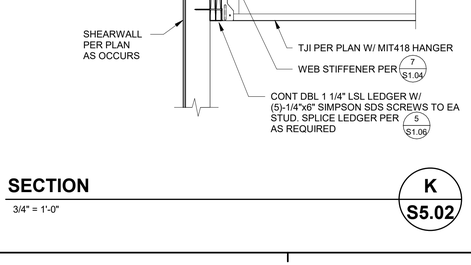
SECTION C — S5.02
3/4" = 1'-0"



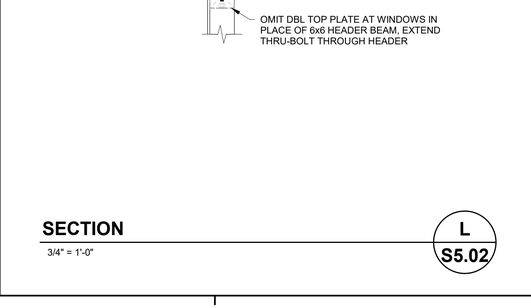
SECTION D — S5.02
3/4" = 1'-0"



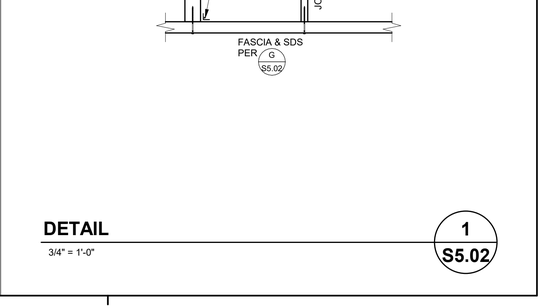
SECTION E — S5.02
3/4" = 1'-0"



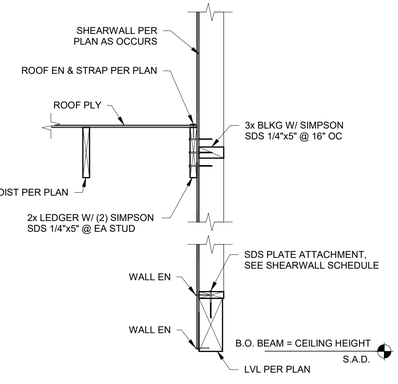
SECTION F — S5.02
3/4" = 1'-0"



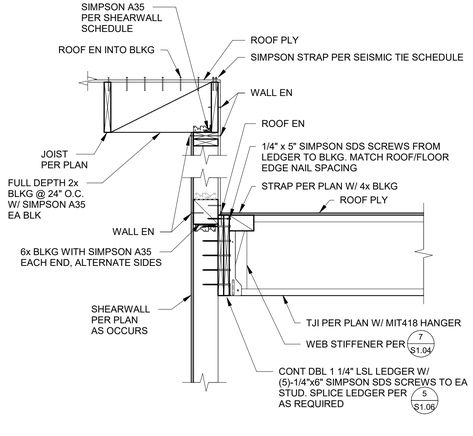
SECTION G — S5.02
3/4" = 1'-0"



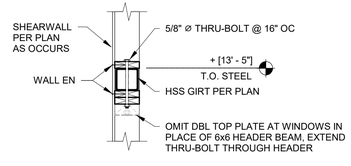
SECTION H — S5.02
3/4" = 1'-0"



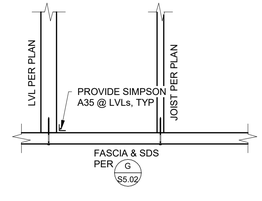
SECTION J — S5.02
3/4" = 1'-0"



SECTION K — S5.02
3/4" = 1'-0"



SECTION L — S5.02
3/4" = 1'-0"



DETAIL 1 — S5.02
3/4" = 1'-0"

BID DOCUMENTS

4/29/2026 1:39:36 PM
W:\2021\2021034 Riverstone Fire Station\Revit 2025\Riverstone Fire Station_Structural - Const.rvt

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER DUSTIN G. LEE No. 5963 EXP. 3/31/27 STRUCTURAL STATE OF CALIFORNIA

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED A PUBLICATION OR RRM CONSTITUTE LOSS OF COPYRIGHTS.
RRM DESIGN GROUP COPYRIGHT 2022.
RRM IS A CALIFORNIA CORPORATION

CORNERSTONE structural engineering group
9 River Park Place East, Suite 330
Fresno, California 93720
559.320.3200
fax 559.320.3201

RIVERSTONE FIRE STATION

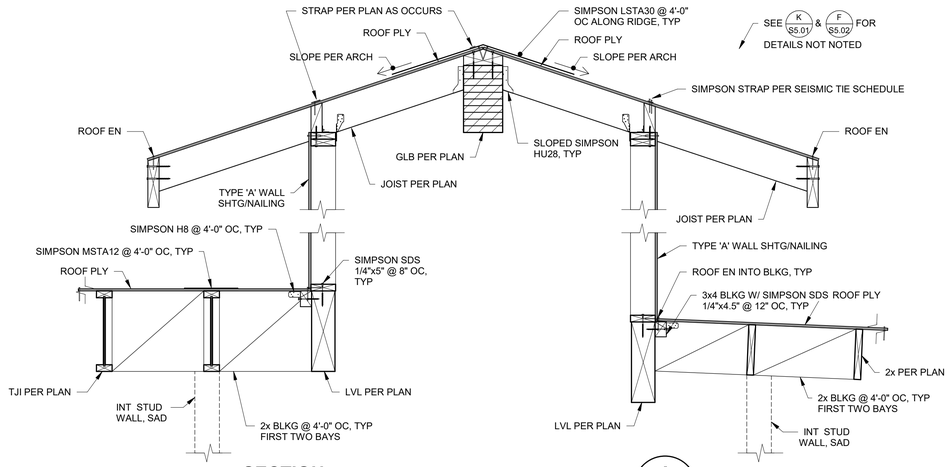
PROJECT STREET ADDRESS
CITY, STATE, ZIP CODE

FRAMING DETAILS No. 2

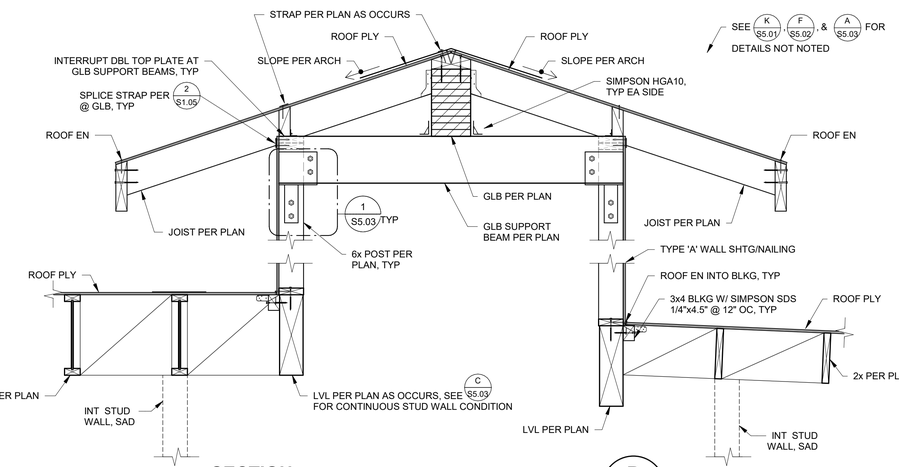
NO.	REVISION	DATE

PROJECT MANAGER: DGL
DRAWN BY: MEW/DAA
CHECKED BY: DGL
DATE: MAY 4, 2026
PROJECT NUMBER: 2021034
SHEET: S5.02

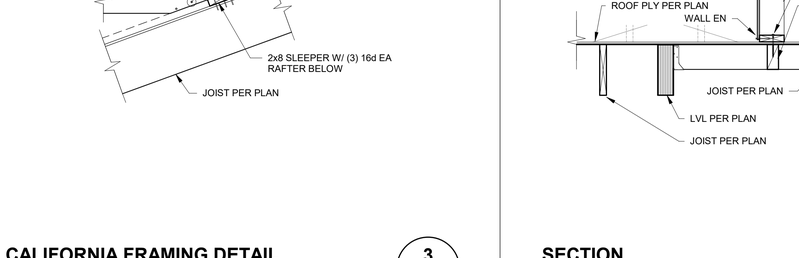
County of Madera – CDD Building and Fire Safety Division Approved Under the 2022 California Building Code
Date: 05/04/2026



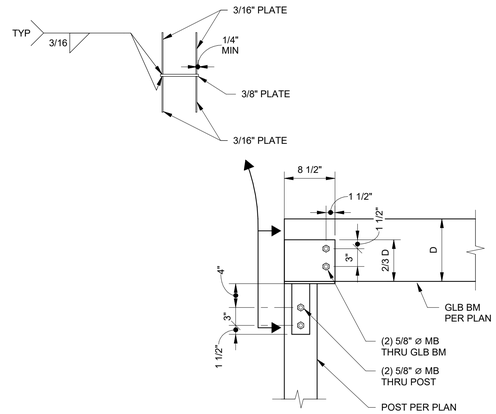
SECTION A
3/4" = 1'-0"
S5.03



SECTION B
3/4" = 1'-0"
S5.03

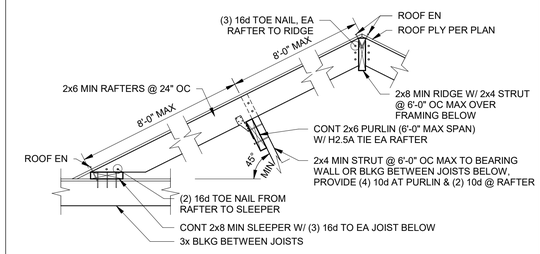


SECTION C
3/4" = 1'-0"
S5.03

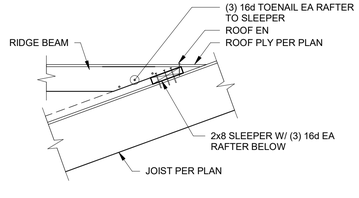


POST CAP DETAIL
1" = 1'-0"
1
S5.03

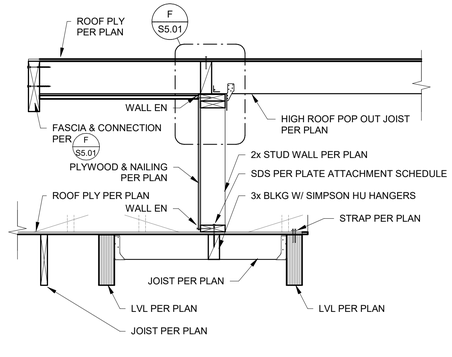
NOTE: FILL FRAMING SHALL BE IN CONFORMANCE W CBC 2308.10 TYP. RAFTER TIES NOT SHOWN FOR CLARITY



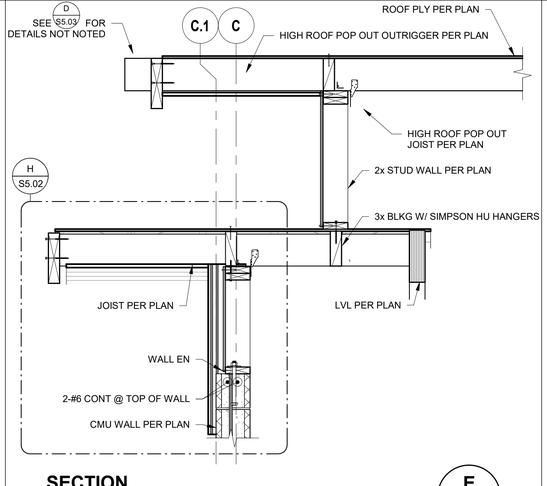
CALIFORNIA FRAMING DETAIL
3/4" = 1'-0"
2
S5.03



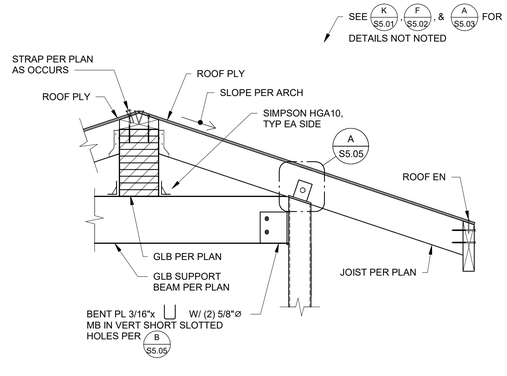
CALIFORNIA FRAMING DETAIL
3/4" = 1'-0"
3
S5.03



SECTION D
3/4" = 1'-0"
S5.03



SECTION E
3/4" = 1'-0"
S5.03



SECTION F
3/4" = 1'-0"
S5.03

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER DUSTIN G. LEE No. S5631 EXP. 3/31/27 STRUCTURAL STATE OF CALIFORNIA

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED PUBLICATION BY RRM DESIGN GROUP.
RRM DESIGN GROUP COPYRIGHT 2022.
RRM IS A CALIFORNIA CORPORATION

CORNERSTONE structural engineering group
9 River Park Place East, Suite 330
Fresno, California 93720
559.320.3200
fax 559.320.3201

RIVERSTONE FIRE STATION
PROJECT STREET ADDRESS
CITY, STATE, ZIP CODE

FRAMING DETAILS No. 3

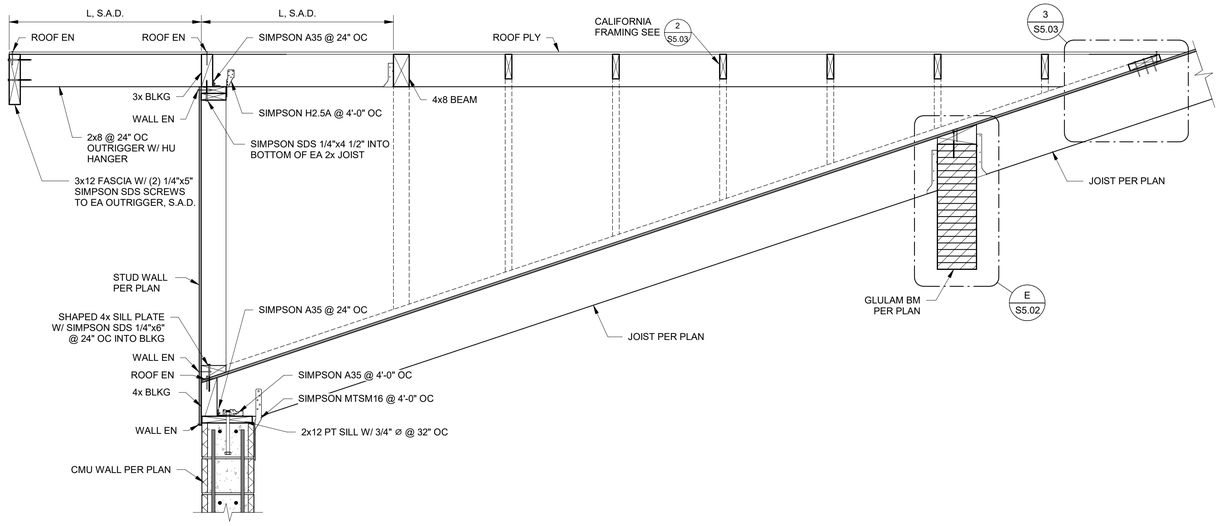
NO.	REVISION	DATE

PROJECT MANAGER: DGL
DRAWN BY: MEW/DAA | CHECKED BY: DGL
DATE: MAY 4, 2026
PROJECT NUMBER: 2021034
SHEET: S5.03

BID DOCUMENTS

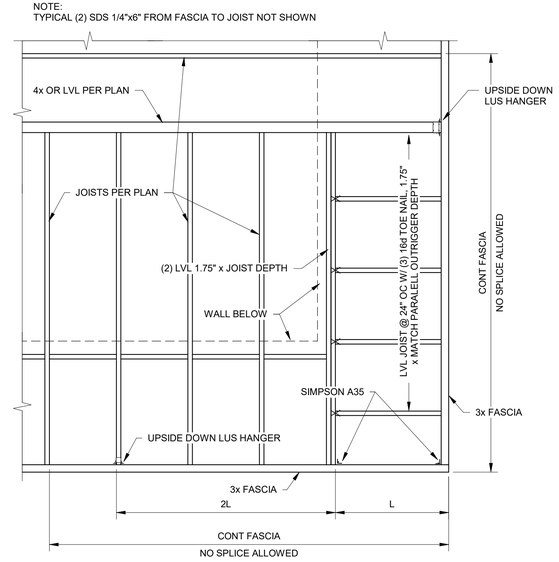
County of Madera – CBD Building Division Approved Subject to the 2022 California Building and Fire Safety Codes

4/29/2026 1:39:37 PM
W:\2021\2021034 Riverstone Fire Station\Revit 2025\Riverstone Fire Station_Structural - Const.rvt



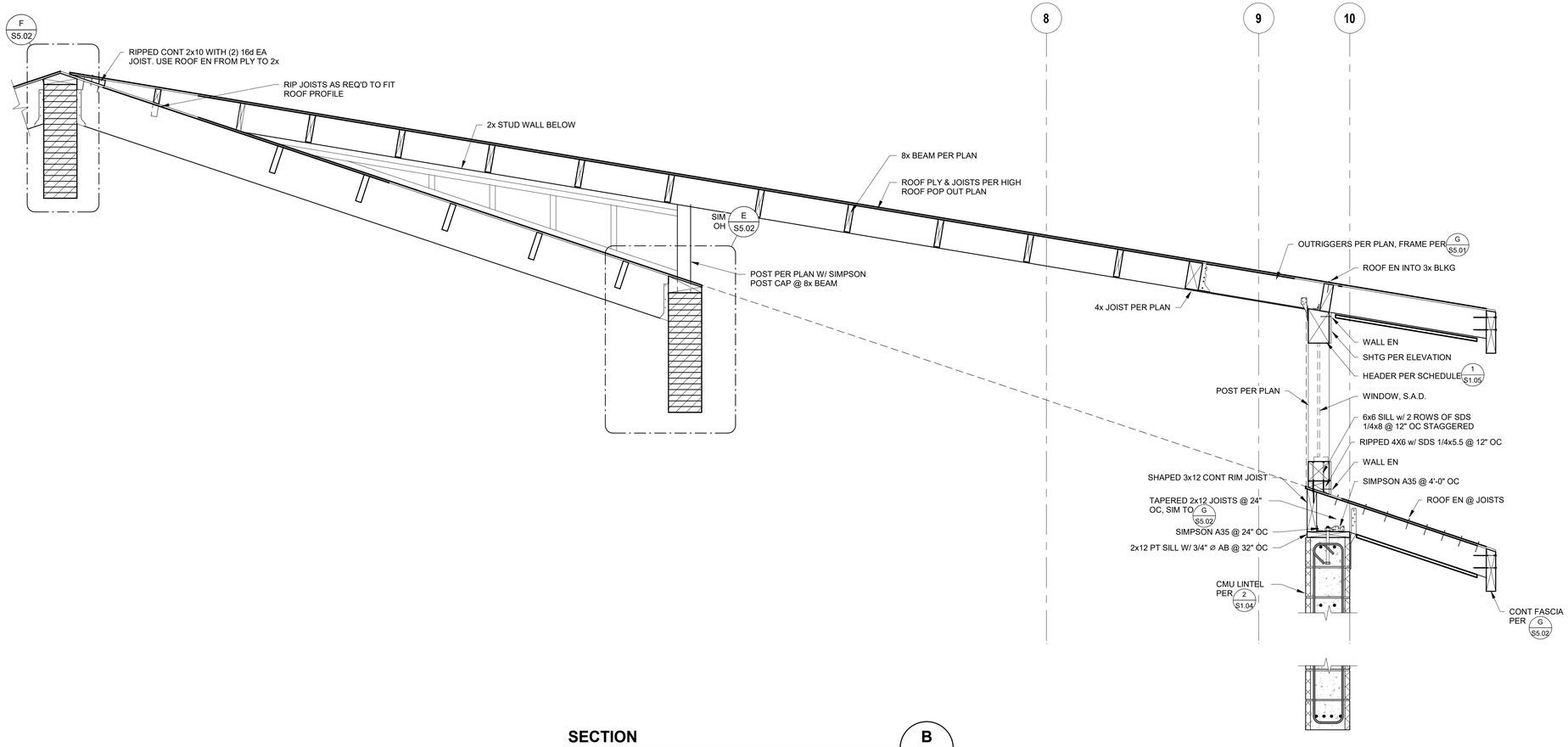
SECTION — A — S5.04

3/4" = 1'-0"



TYPICAL CORNER FRAMING — 2 — S5.04

1/2" = 1'-0"



SECTION — B — S5.04

3/4" = 1'-0"

BID DOCUMENTS

rrm design group

rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER DUSTIN G. LEE No. 5963 EXP. 3/31/27 STRUCTURAL STATE OF CALIFORNIA

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED PUBLICATION. RRM DESIGN GROUP RETAINS COPYRIGHT TO THESE DRAWINGS.
RRM DESIGN GROUP COPYRIGHT 2022.
RRM IS A CALIFORNIA CORPORATION

CORNERSTONE structural engineering group

9 River Park Place East, Suite 330
Fresno, California 93720
559.320.3200
fax 559.320.3201

RIVERSTONE FIRE STATION

PROJECT STREET ADDRESS
CITY, STATE, ZIP CODE

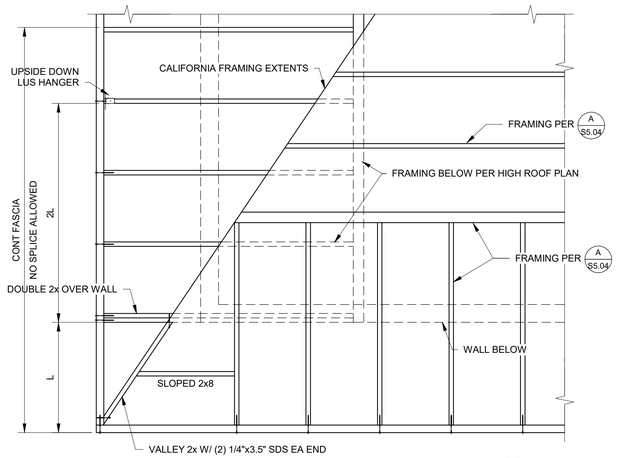
FRAMING DETAILS No. 4

NO.	REVISION	DATE

PROJECT MANAGER DGL
DRAWN BY MEW/DAA **CHECKED BY** DGL
DATE MAY 4, 2026
PROJECT NUMBER 2021034
SHEET S5.04

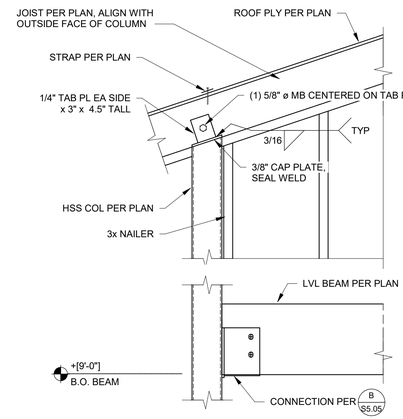
County of Madera – CDD Building and Fire Safety Division Approved Under the 2022 California Building Code Date: 05/04/2026

4/29/2026 1:39:37 PM
W:\2021\2021034 Riverstone Fire Station\Revit 2025\Riverstone Fire Station_Structural - Const.rvt



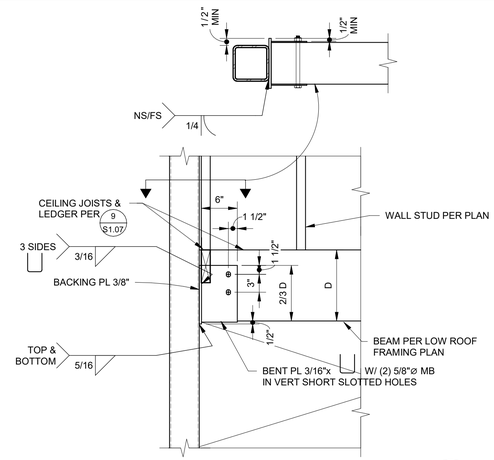
DETAIL 1 / S5.05

1/2" = 1'-0"



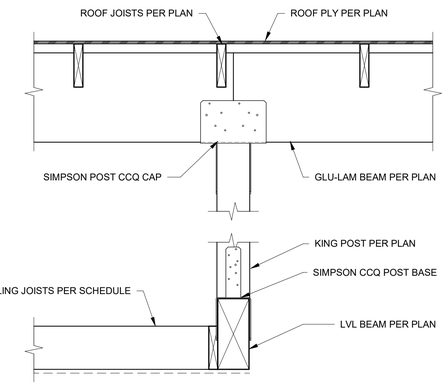
SECTION A / S5.05

1" = 1'-0"



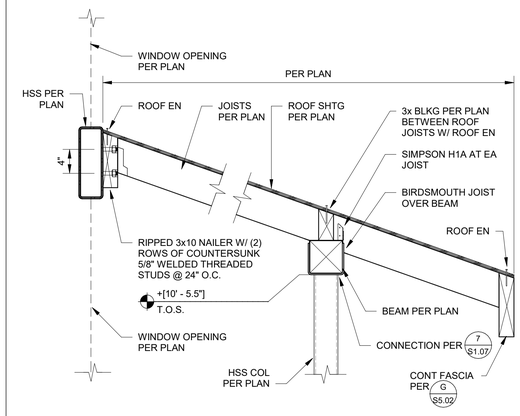
SECTION B / S5.05

1" = 1'-0"



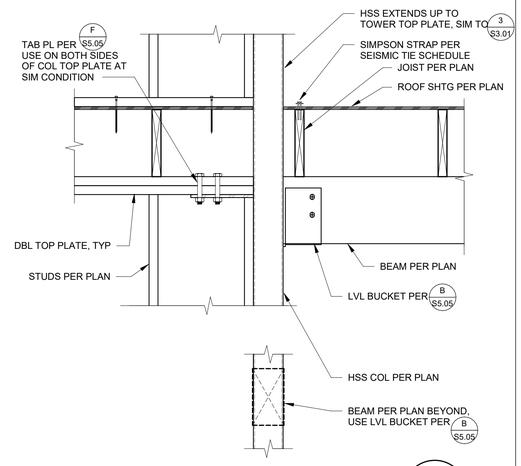
SECTION C / S5.05

1" = 1'-0"



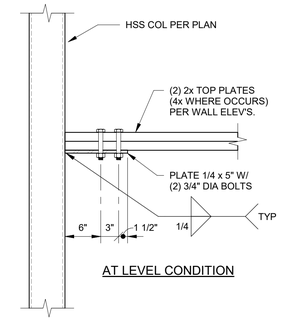
SECTION D / S5.05

1" = 1'-0"



SECTION E / S5.05

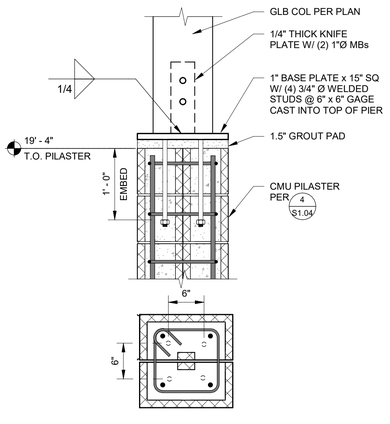
1" = 1'-0"



AT LEVEL CONDITION

SECTION F / S5.05

1" = 1'-0"



SECTION G / S5.05

1" = 1'-0"

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER DUSTIN G. LEE No. 90621 EXP. 3/31/27 STRUCTURAL STATE OF CALIFORNIA

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED PUBLICATION OR RELEASE OF COPYRIGHT PRIVILEGES.
RRM DESIGN GROUP COPYRIGHT 2022.
RRM IS A CALIFORNIA CORPORATION

CORNERSTONE structural engineering group
9 River Park Place East, Suite 330
Fresno, California 93720
559.320.3200
fax 559.320.3201

RIVERSTONE FIRE STATION

PROJECT STREET ADDRESS
CITY, STATE, ZIP CODE

FRAMING DETAILS No. 5

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: DGL
DRAWN BY: MEW/DAA
CHECKED BY: DGL
DATE: MAY 4 2026
PROJECT NUMBER: 2021034
SHEET: S5.05

BID DOCUMENTS

County of Madera – CFD Building and Fire Safety
Approved subject to compliance with the 2022 California Building Code and Ordinances, and within the limits of the plans and specifications approved without signature
Date: 05/04/2026

4/29/2026 1:39:38 PM
W:\2021\2021034 Riverstone Fire Station\Revit 2025\Riverstone Fire Station_Structural - Const.rvt

CAL GREEN CODE NONRESIDENTIAL MANDATORY MEASURES

DIVISION 5.4-MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

5.410.2 COMMISSIONING. FOR NEW BUILDINGS 10,000 SQUARE FEET AND OVER, BUILDING COMMISSIONING SHALL BE INCLUDED IN THE DESIGN AND CONSTRUCTION PROCESSES OF THE BUILDING PROJECT TO VERIFY THAT THE BUILDING SYSTEMS AND COMPONENTS MEET THE OWNER'S OR OWNER REPRESENTATIVE'S PROJECT REQUIREMENTS.

REFER TO THE PROJECT SPECIFICATIONS FOR COMMISSIONING REQUIREMENTS.

5.410.4 TESTING AND ADJUSTING. TESTING AND ADJUSTING OF SYSTEMS SHALL BE REQUIRED FOR NEW BUILDINGS LESS THAN 10,000 SQUARE FEET OR NEW SYSTEMS TO SERVE AN ADDITION OR ALTERATION SUBJECT TO 2022 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.

5.506.2 CARBON DIOXIDE (CO2) MONITORING. FOR BUILDINGS OR ADDITIONS EQUIPPED WITH DEMAND CONTROL VENTILATION, CO2 SENSORS AND VENTILATION CONTROLS SHALL BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2022 CALIFORNIA ENERGY CODE, SECTION 120.1(C)(4).

SECTION 5.508 OUTDOOR AIR QUALITY

5.508.1 OZONE DEPLETION AND GREENHOUSE GAS REDUCTIONS. INSTALLATIONS OF HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL COMPLY WITH SECTIONS 5.508.1.1 AND 5.508.1.2.

5.508.1.1 CHLOROFLUOROCARBONS (CFCS). INSTALL HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN CFCS.

5.508.1.2 HALONS. INSTALL HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN HALONS.

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 ABBREVIATIONS

AC	AIR CONDITION, AIR CONDITIONING, AIR CONDITIONED	HVI	HOME VENTILATING INSTITUTE
ABV	ABOVE	HZ	HERTZ
AFF	ABOVE FINISHED FLOOR	IDU	INDOOR UNIT
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	IWC	INCHES OF WATER COLUMN
AHJ	AUTHORITY HAVING JURISDICTION	KW	KILOWATT
AHU	AIR HANDLING UNIT	LBS	POUNDS
ALUM	ALUMINUM	LWT	LEAVING WATER TEMPERATURE
AMCA	AIR MOVEMENT AND CONTROL ASSOCIATION	MBH	1000 BRITISH THERMAL UNITS PER HOUR
AMB	AMBIENT	MCA	MINIMUM CIRCUIT AMPS
ARCH	ARCHITECT, ARCHITECTURAL	MFGR	MANUFACTURE OR MANUFACTURER
ARI	AMERICAN REFRIGERATION INSTITUTE	MIN	MINIMUM
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS	MUA	MAKE-UP AIR
BDD	BACK DRAFT DAMPER	(N)	NEW
BOD	BASIS OF DESIGN	NL	NOT LISTED
BEL	BELOW	NOM	NOMINAL
BHP	BREAK HORSE POWER	NTS	NOT TO SCALE
BLDG	BUILDING	OA	OUTSIDE AIR
BTUH	BRITISH THERMAL UNIT PER HOUR	OAI	OUTSIDE AIR INTAKE
CA	COMBUSTION AIR	OBD	OPPOSED BLADE DAMPER
CD	CONDENSATE DRAIN	ODU	OUTDOOR UNIT
CFD	CEILING FIRE DAMPER	OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
CFM	CUBIC FEET PER MINUTE	PD	PRESSURE DROP
CONT	CONTINUATION	PSI	POUNDS PER SQUARE INCH
CSD	CEILING SMOKE DAMPER	RA	RETURN AIR
DB	DRY BULB TEMPERATURE	REFRIG	REFRIGERANT, REFRIGERATION
DN	DOWN	RM	ROOM
DSA	DIVISION OF THE STATE ARCHITECT	RPM	REVOLUTIONS PER MINUTE
(E)	EXISTING	SA	SUPPLY AIR
EA	EXHAUST AIR	SEER	SEASONAL ENERGY EFFICIENCY RATION
EC	EVAPORATIVE COOLER	SHT	SHEET
EDB	ENTERING DRY BULB TEMPERATURE	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
EER	ENERGY EFFICIENCY RATIO	SOV	SHUT OFF VALVE
EFF	EFFICIENCY	SP	STATIC PRESSURE
ELEC	ELECTRICAL	SS	STAINLESS STEEL
ESP	EXTERNAL STATIC PRESSURE	SSE	STEADY STATE EFFICIENCY
EWB	ENTERING WET BULB	SST	SATURATED SUCTION TEMPERATURE
EWT	ENTERING WATER TEMPERATURE	TEMP	TEMPORARY, TEMPERATURE
FA	FROM ABOVE	TSP	TOTAL STATIC PRESSURE
FC	FLEXIBLE CONNECTION	TYP	TYPICAL
FD	FIRE DAMPER	TXV	THERMAL EXPANSION VALVE
FLA	FULL LOAD AMPS	UON	UNLESS OTHERWISE NOTED
FPM	FEET PER MINUTE	UTR	UP TO OR UP THROUGH ROOF
FSC	FAN SPEED CONTROLLER	VD	VOLUME DAMPER
FSD	FIRE/SMOKE DAMPER	VEX	VEHICLE EXHAUST SYSTEM
GA	GAGE, GAUGE	VRF	VARIABLE REFRIGERANT VOLUME
GALV	GALVANIZED	WB	WET BULB TEMPERATURE
GPM	GALLONS PER MINUTE	WC	WATER COLUMN
GYP	GYPSUM	WG	WATER GAUGE
HD	HEAD	WT	WEIGHT EXPRESSED IN POUNDS
HP	HORSE POWER		

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 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.

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
Ø	DIA	DIAMETER
		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 PLAIN 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
(FSC) EF-X	FSC	FAN SPEED CONTROLLER, SUBSCRIPT INDICATES ASSOCIATED FAN
(M)		MOTORIZED DAMPER, DAMPER ACTUATOR
(PP)		PRESSURE PORT
(S) EF-X		SINGLE POLE SWITCH, SUBSCRIPT INDICATES ASSOCIATED FAN
(T) AC-#		THERMOSTAT, SUBSCRIPT INDICATES UNIT CONTROLLED
(ERV)	ERV	ENERGY RECOVERY VENTILATOR CONTROLLER
(TI)	TI	TIMER
		WALL CAP
		ROOF JACK
		ROOF CAP
EXF		CEILING EXHAUST FAN
REF REF		REFRIGERATION LINES

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	BEN SWANSON	805.574.5968	BSWANSON@EMCOR.NET
PLUMBING DESIGNER	ELI FERMAN	805.634.8818	EFERMAN@EMCOR.NET
ENERGY COMPLIANCE	JORGE BRAVO	805.595.0894	JBRAVOANGELES@EMCOR.NET

MECHANICAL GENERAL NOTES

1 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.

2 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.

3 COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING CODES:

2019 CALIFORNIA ADMINISTRATIVE CODE (CAC): PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
2019 CALIFORNIA BUILDING CODE (CBC): PART 2, TITLE 24 CCR
2019 CALIFORNIA ELECTRICAL CODE (CEC): PART 3, TITLE 24 CCR
2019 CALIFORNIA MECHANICAL CODE (CMC); PART 4, TITLE 24 CCR
2019 CALIFORNIA PLUMBING CODE (CPC): PART 5, TITLE 24 CCR
2019 CALIFORNIA ENERGY CODE (CENC): PART 6, TITLE 24 CCR
2019 CALIFORNIA FIRE CODE (CFC): PART 9, TITLE 24 CCR
2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN): PART 11, TITLE 24 CCR

REPORT DEFICIENCIES WITHIN THIRTY (30) DAYS UPON AUTHORIZATION TO PROCEED.

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 HANDLE, STORE AND INSTALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.

7 BRACE AND SUPPORT PIPES, CONDUIT, AND DUCTWORK IN ACCORDANCE TO SMACNA GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL AND PLUMBING PIPING SYSTEM.

8 REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS, REGISTERS, GRILLES, AND ACCESS PANELS.

9 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.

10 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.

11 INSULATE PIPING AND DUCTWORK IN ACCORDANCE TO THE GOVERNING CODES.

12 COMMISSION AND START-UP THE MECHANICAL SYSTEMS TO ASSURE A COMPLETE AND OPERATIONAL HVAC SYSTEM IN ACCORDANCE WITH ASHRAE AND NEBB.

13 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.

14 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 2019 CBC. NOTIFY THE ARCHITECT IMMEDIATELY IF THE MOUNTING HEIGHTS REQUIRED BY THE 2019 CBC CANNOT BE OBTAINED AT THE LOCATION WHERE THE CONTROL DEVICE IS SHOWN ON THE MECHANICAL FLOOR PLANS.

15 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.

15 ALL EQUIPMENT SHALL BE LABELED AS TO THE SPACE THEY ARE SERVING.

16 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 2019 CBC 1203.

17 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.

18 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.

SHEET INDEX

SHEET NUMBER	SHEET TITLE
M-000	GENERAL
M-001	SCHEDULES
M-002	SCHEDULES
M-003	DETAILS
M-004	DETAILS
M-005	DETAILS
M-006	DETAILS
M-007	HPC-1,2 WIRING AND PIPING SCHEMATIC DIAGRAMS
M-200	FLOOR PLANS
M-201	ENLARGED FLOOR PLANS
M-210	PIPING FLOOR PLAN
M-300	ROOF PLANS
M-310	PIPING ROOF PLAN

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PLAN CHECK OR CONSTRUCTION SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2021
RRM IS A CALIFORNIA CORPORATION

REGISTERED PROFESSIONAL ENGINEER
JONATHAN P. STARRETT
M 34068
EXP. 6/30/26
MECHANICAL
STATE OF CALIFORNIA

CONSULTANT

3C Engineering
An EMCOR Company
805.748.1343
1510 Palm St, San Luis Obispo, CA, 93401

BY Mesa Energy Systems, Inc., ALL COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS RESERVE THIS DOCUMENT AS AN ORIGINAL AND UNPUBLISHED WORK PRODUCT. THIS WORK SHALL NOT BE DUPLICATED, COPIED, DISCLOSED OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH IT AS BEEN PREPARED, NOR SHALL IT BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF VISUAL CONTACT. THIS DOCUMENT SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

GENERAL

NO.	REVISION	DATE
1	PLAN CHECK RESPONSE 1	12/18/25
2	PLAN CHECK RESPONSE 2	02/27/26

PROJECT MANAGER
DS

DRAWN BY
KM

CHECKED BY
BS

DATE
MARCH 4, 2026

PROJECT NUMBER
2471-01-CI21

SHEET
M-000

BID DOCUMENTS

City of Madera – Community Development Department
Plans Approved Under the 2022 California Building Codes
Codes and Ordinances, not valid without signature
Date: 05/04/2026

C:\Users\bswanson778e\appdata\local\temp\AcPublish_9856\Riverstone Fire Station Mechanical Lead.dwg BSwanson778E Feb 27, 2026 - 1:16pm

GAS FIRED UNIT HEATER SCHEDULE

TAG	MAKE	MODEL	TYPE	FUEL	GAS CONNCETION	BTUH INPUT	BTUH OUTPUT	AFUE	FLUE SIZE	CA INTAKE SIZE	CFM	INSTALLATION HEIGHT	THROW	HP	SOUND LEVEL DBA AT 15FT	POWER V/ϕ/HZ	FLA	WEIGHT [LBS]	REMARKS SEE BELOW	INSTALLATION DETAIL
UH 1	REZNOR	UDZ-175	SEPARATED COMBUSTION	NG	1/2	175,000	145,250	0.83	5	6	2,242	15'	76'	1/4	52	120/1/60	3.8	200	1, C1	5/M-004
UH 2	REZNOR	UDZ-175	SEPARATED COMBUSTION	NG	1/2	175,000	145,250	0.83	5	6	2,242	15'	76'	1/4	52	120/1/60	3.8	200	1, C1	5/M-004
UH 3	REZNOR	UDZ-100	SEPARATED COMBUSTION	NG	1/2	105,000	87,150	0.83	4	4	1,345	8'	56'	1/4	54	120/1/60	4.3	110	1, C1	5/M-004

GENERAL NOTES APPLICABLE TO ALL UNITS:
A. DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.

UNIT SPECIFIC NOTES:
1. PROVIDE WITH MANUFACTURERS VERTICAL COMBUSTION AIR/VENT KIT WITH CONCENTRIC ADAPTER.

CONTROL NOTES:
C1. PROVIDE WITH HONEYWELL MODEL TH8321WF1001 VISION PRO WI-FI CAPABLE PROGRAMMABLE THERMOSTAT.

ELECTRIC UNIT HEATER SCHEDULE

TAG	MAKE	MODEL	INSTALLATION TYPE	POWER V/ϕ/HZ	NOMINAL HEATING CAPACITY		FAN		OPERATING WEIGHT LBS	REMARKS SEE BELOW
					KW	BTUH	CFM	WATTS [HP]		
UH 4	REZNOR	ECR2	RECESSED	208/3/60	2	6,800	310	78	35	1,2,C1

UNIT SPECIFIC NOTES:
1. UNIT IS PROVIDED WITH A FACTORY INSTALLED DISCONNECT.
2. PROVIDE WITH 24V RELAY WITH TRANSFORMER.

CONTROL NOTES:
C1. PROVIDE WITH HONEYWELL MODEL TH8321WF1001 VISION PRO WI-FI CAPABLE PROGRAMMABLE THERMOSTAT.

ELECTRIC CEILING HEATER SCHEDULE

TAG	MAKE	MODEL	AIRFLOW (CFM)	OUTPUT IN WATTS	OUTPUT IN BTU/H	ELECTRICAL DATA		WEIGHT LBS	REMARKS [SEE BELOW]
						POWER V/ϕ/HZ	AMPS		
ECH 1	BROAN	MODEL 157	NA	1250	4266	120/1/60	10.7	5	1,C1
ECH 2	BROAN	MODEL 157	NA	1250	4266	120/1/60	10.7	5	1,C1

GENERAL NOTES APPLICABLE TO ALL UNITS:
A. DISCONNECT PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.

UNIT SPECIFIC NOTES:
1. MOUNT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

CONTROL NOTES:
C1. CONTROL WITH 2-HOUR NO HOLD TIMER.

VARIABLE REFRIGERANT FLOW HEAT PUMP CONDENSING UNIT SCHEDULE

TAG	MAKE	MODEL	NOMINAL TONS	REFRIGERANT	ELECTRICAL DATA			ARI PERFORMANCE				OPERATING WEIGHT LBS	REMARKS SEE BELOW	INSTALLATION DETAIL
					POWER V/ϕ/HZ	MCA	MOCP	NOMINAL COOLING CAPACITY BTUH	NOMINAL HEATING CAPACITY BTUH	COOLING EFFICIENCY	HEATING EFFICIENCY			
										EER2	SEER2	HSPF2		
HPC 1	DAIKIN	RXTA24	2	R-32	208/1/60	19.8	20	23,000	25,000	11.8	16.0	8.2	235	NA	3/M-003
HPC 2	DAIKIN	RXTA24	2	R-32	208/1/60	19.8	20	23,000	25,000	11.8	16.0	8.2	235	NA	3/M-003

GENERAL NOTES APPLICABLE TO ALL UNITS:
A. DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.
B. SIZE REFRIGERATION LINES PER MANUFACTURERS REQUIREMENTS FOR TOTAL DEVELOPED LINE LENGTH.

VARIABLE REFRIGERANT FLOW FAN COIL SCHEDULE

TAG	MAKE	MODEL	NOMINAL TONS	REFRIGERANT	INSTALLATION TYPE	FAN			MINIMUM OAI CFM	ELECTRICAL DATA			ARI PERFORMANCE		MERV 13 FILTER SIZE	OPERATING WEIGHT LBS	REMARKS SEE BELOW	INSTALLATION DETAIL
						CFM	WATTS	ESP		POWER V/ϕ/HZ	MCA	MOCP	NOMINAL COOLING CAPACITY BTUH	NOMINAL HEATING CAPACITY BTUH				
FC 1.1	DAIKIN	FXSA07	0.6	R-32	DUCTED	281	90	0.6"	50	208/1/60	0.8	15	7,200	8,500	20"X8"X4.375"	55	1,2	7/M-004
FC 1.2	DAIKIN	FXSA07	0.6	R-32	DUCTED	281	90	0.6"	50	208/1/60	0.8	15	7,200	8,500	20"X8"X4.375"	55	1,2	7/M-004
FC 1.3	DAIKIN	FXSA07	0.6	R-32	DUCTED	281	90	0.6"	50	208/1/60	0.8	15	7,200	8,500	20"X8"X4.375"	55	1,2	7/M-004
FC 2.1	DAIKIN	FXSA07	0.6	R-32	DUCTED	281	90	0.6"	50	208/1/60	0.8	15	7,200	8,500	20"X8"X4.375"	55	1,2	7/M-004
FC 2.2	DAIKIN	FXSA07	0.6	R-32	DUCTED	281	90	0.6"	50	208/1/60	0.8	15	7,200	8,500	20"X8"X4.375"	55	1,2	7/M-004
FC 2.3	DAIKIN	FXSA07	0.6	R-32	DUCTED	281	90	0.6"	50	208/1/60	0.8	15	7,200	8,500	20"X8"X4.375"	55	1,2	7/M-004

GENERAL NOTES APPLICABLE TO ALL UNITS:
A. DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.

UNIT SPECIFIC NOTES:
1. PROVIDE WITH MANUFACTURER'S BRC1NRV71 7-DAY PROGRAMMABLE WIRED REMOTE CONTROLLER.
2. PROVIDE WITH MANUFACTURER'S DFBS22A13 MERV 13 FILTER KIT.

HEAT PUMP CONDENSING UNIT SCHEDULE

TAG	MATCHING UNIT TAG	MAKE	MODEL	NOMINAL TONS	REFRIGERANT	ELECTRICAL DATA			ARI PERFORMANCE					PIPING SIZE		OPERATING WEIGHT LBS	REMARKS SEE BELOW	INSTALLATION DETAIL
						POWER V/ϕ/HZ	MCA	MOCP	COOLING BTUH	SEER2	EER 2	HEATING BTUH AT 47°F	HEATING BTUH AT 17°F	HSPF2 AT 47°F	LIQUID	SUCTION			
HPC 3	FC 3	DAIKIN	RZA24	2	R-32	208/1/60	19.8	20	24,000	16.5	11.7	27,000	18,000	10.5	NOTE B	NOTE B	235	NA	3/M-003
HPC 4	FC 4	DAIKIN	RZA30	2.5	R-32	208/1/60	34.6	35	30,000	16.5	12.4	34,000	22,000	8.9	NOTE B	NOTE B	235	NA	3/M-003

GENERAL NOTES APPLICABLE TO ALL UNITS:
A. DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.
B. SIZE REFRIGERATION LINES PER MANUFACTURERS REQUIREMENTS FOR TOTAL DEVELOPED LINE LENGTH.

FAN COIL UNIT SCHEDULE

TAG	MATCHING UNIT TAG	MAKE	MODEL	NOMINAL TONS	REFRIGERANT	FAN				OAI CFM	ELECTRICAL DATA			ARI PERFORMANCE						MERV 13 FILTER SIZE	OPERATING WEIGHT LBS	REMARKS SEE BELOW	INSTALLATION DETAIL
						CFM	SPEED	ESP	WATTS [BHP]		POWER V/ϕ/HZ	MCA	MOCP	COOLING BTUH	SEER2	EER 2	HEATING BTUH AT 47°F	HEATING BTUH AT 17°F	HSPF2				
FC 3	HPC 3	DAIKIN	FBA24	2	R-32	740	HIGH	0.8"	350	75	208/1/60	1.9	15	24,000	16.5	11.7	27,000	18,000	9.3	NA	85	1, 2	7/M-004
FC 4	HPC 4	DAIKIN	FBA30	2.5	R-32	935	MED	0.8"	350	100	208/1/60	3.9	15	30,000	16.5	12.4	34,000	22,000	8.9	NA	105	1, 2	7/M-004

GENERAL NOTES APPLICABLE TO ALL UNITS:
A. DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.

UNIT SPECIFIC NOTES:
1. PROVIDE WITH MANUFACTURER'S BRC1NRV71 7-DAY PROGRAMMABLE WIRED REMOTE CONTROLLER.
2. PROVIDE WITH CONTRACTOR-FABRICATED FILTER BOX WITH 2" MERV-13 FILTER. SIZE FILTER FOR A MAX INITIAL PRESSURE DROP OF 0.15" WC.

DUCTLESS SPLIT SYSTEM HEAT PUMP SCHEDULE

TAG	MAKE	NOMINAL TONS	REFRIGERANT	AHRI PERFORMANCE						INDOOR UNIT								OUTDOOR UNIT						REMARKS SEE BELOW
				COOLING BTUH	HEATING BTUH AT 47°F	HEATING BTUH AT 17°F	SEER2	EER2	HSPF2	MODEL	INSTALLATION TYPE	POWER V/ϕ/HZ	MCA	MOCP	CFM	WATTS	OPERATING WEIGHT IN LBS	INSTALLATION DETAIL	MODEL	POWER V/ϕ/HZ	MCA	MOCP	OPERATING WEIGHT IN LBS	INSTALLATION DETAIL	
DS 1	DAIKIN	1.5	R-32	18,000	20,000	13,800	17.8	12.8	7.6	FAA18	HIGH WALL	208/1/60	0.5	15	512	43	40	6/M-004	RZA18	208/1/60	19.8	20	235	3/M-003	1, C1

GENERAL NOTES APPLICABLE TO ALL UNITS:
A. DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.
B. SIZE REFRIGERATION LINES PER THE MANUFACTURERS REQUIREMENTS FOR TOTAL DEVELOPED LINE LENGTH.
C. PROVIDE WITH CONDENSATE PUMP. PUMP SHALL BE INTERNALLY MOUNTED WITHIN THE INDOOR UNIT AND WIRED TO THE TERMINAL STRIP. NO EXPOSED INSTALLATIONS ALLOWED.

UNIT SPECIFIC NOTES:
1. UNIT SHALL BE CONFIGURED FOR COOLING ONLY.

CONTROL NOTES:
C1. PROVIDE WITH MANUFACTURERS WIRED CONTROLLER.

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THIS DOCUMENT FOR PLAN CHECK OR CONSTRUCTION SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2021
RRM IS A CALIFORNIA CORPORATION

REGISTERED PROFESSIONAL ENGINEER
JONATHAN P. STARRETT
M 34068
EXP. 6/30/26
MECHANICAL
STATE OF CALIFORNIA

CONSULTANT

3C Engineering
An EMCOR Company
(805) 540-1343
1533 Palm St, San Luis Obispo, CA, 93401

BY Mesa Energy Systems, Inc., ALL COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS RESERVE THIS DOCUMENT AS AN ORIGINAL AND UNPUBLISHED WORK PRODUCT. THIS WORK SHALL NOT BE DUPLICATED, COPIED, DISCLOSED OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH IT AS BEEN PREPARED, NOR SHALL IT BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF VISUAL CONTACT. THIS DOCUMENT SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

SCHEDULES

NO.	REVISION	DATE
1	PLAN CHECK RESPONSE 1	12/18/25
2	PLAN CHECK RESPONSE 2	02/27/26

PROJECT MANAGER: DS
DRAWN BY: KM
CHECKED BY: BS
DATE: Date 05/04/2026 — MAY 4, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: M-001

BID DOCUMENTS

City of Madera – Community Development Department – Building Division – Approved for Issuance – Valid under the 2022 California Building Code
Plan Checks and Inspections not valid without signature

C:\Users\bsvanson778\appdata\local\temp\AcPublish_9656\Riverstone Fire Station Mechanical Lead.dwg BSvanson778E Feb 27,2026-1:16pm

GAS HEATING ELECTRIC COOLING PACKAGED UNIT SCHEDULE

TAG	MAKE	MODEL	NOMINAL CAPACITY TONS	DUCT CONFIGURATION	REFRIGERANT	COOLING STAGES	CONDENSATE CONNECTION SIZE	ELECTRICAL DATA			AHRI RATINGS			EVAPORATOR FAN DATA							FURNACE SECTION				MERV 13 FILTER QUANTITY AND SIZE	FIXED OAI	WEIGHT W/ ACCESSORIES LBS	WEIGHT W/ ACCESSORIES & CURB LBS	REMARKS SEE BELOW	INSTALLATION DETAIL
								POWER V/ϕ/HZ	MCA	FUSE SIZE	BTUH	SEER2	EER2	DRIVE	CFM	FAN RPM	ESP	HP	BHP	CONTROL	HEATING STAGES	INPUT BTUH	OUTPUT BTUH	THERMAL EFFICIENCY [AFUE]						
AC 1	CARRIER	48NL-36060	3	VERTICAL	R-454B	1	3/4"	208/1/60	22.9	35	34,400	13.4	11.05	DIRECT	1,125	1,000	1.0"	3/4	0.43	CONSTANT	1	60,000	49,000	81%	(2) 20X12X2	100	410	475	1,2,C1	2/M-003
AC 2	CARRIER	48NL-48090	4	VERTICAL	R-454B	1	3/4"	208/3/60	24.4	35	46,000	13.4	11.05	DIRECT	1,650	1,075	0.8"	3/4	0.72	CONSTANT	1	90,000	74,000	81%	(1) 24X14X2 (1) 24X15X2	300	495	560	1,2,C1	2/M-003

GENERAL NOTES APPLICABLE TO ALL UNITS:
A. DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.
B. WEIGHT WITH ACCESSORIES INCLUDES UNIT WEIGHT WITH FACTORY ACCESSORIES AND COMBINATION ECONOMIZER AND POWER EXHAUST (IF SPECIFIED).

UNIT SPECIFIC NOTES:
1. PROVIDE WITH MICROMETL MODEL CRBK-SPPSMFA STRUCTURALLY CALCULATED KNOCK DOWN CURB. 11" BASE HEIGHT.
2. PROVIDE WITH CANFAB MODEL 1261-OA OUTSIDE AIR HOOD.

CONTROL NOTES:
C1. PROVIDE WITH HONEYWELL MODEL TH8321WF1001 VISION PRO WI-FI CAPABLE PROGRAMMABLE THERMOSTAT.

ENERGY RECOVERY VENTILATOR SCHEDULE

TAG	MAKE	MODEL	ELECTRICAL			SUPPLY AIR FAN					EXHAUST AIR FAN					ENERGY WHEEL SUMMER CONDITIONS						ENERGY WHEEL WINTER CONDITIONS						MERV 13 FILTER QUANTITY AND SIZE	WEIGHT LBS	REMARKS [SEE BELOW]	INSTALLATION DETAIL
																OUTSIDE AIR		SUPPLY AIR		RETURN AIR		OUTSIDE AIR		SUPPLY AIR		RETURN AIR				
			POWER V/ϕ/HZ	MCA	MOCP	CFM	ESP	RPM	DRIVE	WATTS	CFM	ESP	RPM	DRIVE	WATTS	DB	WB	DB	WB	DB	WB	DB	WB	DB	WB	DB	WB				
ERV 1	RENEWAIRE	EV450	208/1/60	4.9	15	400	0.65"	1725	DIRECT	507	400	0.66"	1725	DIRECT	507	101.7	70.9	82.2	64.9	75.0	62.5	24.0	23.0	57.7	44.5	70.0	51.4	(1)14X20X2	250	1,2,3,C1	4/M-003

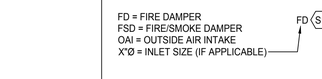
GENERAL NOTES APPLICABLE TO ALL UNITS:
A. DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.

UNIT SPECIFIC NOTES:
1. PROVIDE WITH INSULATED, STRUCTURALLY CALCULATED 14" TALL ROOF CURB.
2. PROVIDE WITH DOWN-TURNED HOODS ON THE INTAKE AND EXHAUST AIR OPENINGS.
3. PROVIDE WITH HINGED ACCESS DOORS.

CONTROL NOTES:
C1. UNIT SHALL RUN CONTINUOUSLY, 24/7/365.

COMMERCIAL GRILLE, REGISTER, DIFFUSER, LOUVER SCHEDULE

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



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	8/M-004
S2	SIDEWALL MOUNTED SUPPLY SINGLE DEFLECTION	TITUS	301RL	1	NA	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	NA
R1 E1	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	8/M-004
L1	4" WALL LOUVER	GREENHECK	ESJ-401	1-1/2" FLANGE		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
L2	4" COMBINATION WALL LOUVER/DAMPER	GREENHECK	EACC-401	1-1/2" FLANGE		ALUMINUM	PRIMER		PROVIDE WITH 120V POWER OPEN / FAIL CLOSE ACTUATOR AND END SWITCH. ACTUATOR SHALL BE ACCESSIBLE FROM THE INTERIOR. PROVIDE WITH FILTER RACK WITH 1" ALUMINUM FILTERS. PROVIDE WITH 316 SS AXLE. PROVIDE WITH BIRD SCREEN. PAINT PER ARCHITECTURAL REQUIREMENTS	NA

EXHAUST FAN SCHEDULE

TAG	MAKE	MODEL	TYPE	FAN					MOTOR		ACCESSORIES				OPERATING WEIGHT LBS	REMARKS SEE BELOW	INSTALLATION DETAIL
				CFM	ESP	RPM	SONES	DRIVE	POWER V/ϕ/HZ	WATTS [HP]	BIRD GUARD	BACKDRAFT DAMPER	ROOF CURB	ROOF JACK	WALL CAP			
EF 1	GREENHECK	SP-A110	CEILING	100	0.125"	849	0.3	DIRECT	120/1/60	13	YES	YES	NO	YES	NO	15	1,C2	4/M-004
EF 2	GREENHECK	CSP-A410	INLINE	402	0.127"	1,000	1.5	DIRECT	120/1/60	128	YES	YES	NO	NO	NO	40	C1	10/M-005
EF 3	GREENHECK	SP-A110	CEILING	100	0.125"	849	0.3	DIRECT	120/1/60	13	YES	YES	NO	YES	NO	15	1,C2	4/M-004
EF 4	GREENHECK	SP-A90	CEILING	98	0.121"	900	0.3	DIRECT	120/1/60	17	YES	YES	NO	YES	NO	15	C1	4/M-004
EF 5	GREENHECK	SP-A110	CEILING	100	0.125"	849	0.3	DIRECT	120/1/60	13	YES	YES	NO	YES	NO	15	1,C2	4/M-004
EF 6	GREENHECK	SP-A190	CEILING	150	0.125"	1,083	0.7	DIRECT	120/1/60	23	YES	YES	NO	YES	NO	20	1,C1	4/M-004
EF 7	GREENHECK	GB-130-4	ROOF MOUNTED DOWNBLAST	1,400	0.125"	1,051	8.6	BELT	120/1/60	[0.25]	YES	YES	YES	NO	NO	60	C1	5/M-003
EF 8	GREENHECK	USF-33	UTILITY SET - CW DOWNBLAST	8,000	0.5"	457	10.5	BELT	208/3/60	[1.14]	YES	YES	NO	NO	NO	1,050	C3	8/M-003
EF 9	GREENHECK	SP-A190	CEILING	150	0.125"	1,083	0.7	DIRECT	120/1/60	23	YES	YES	NO	YES	NO	20	1,C1	4/M-004
EF 10	GREENHECK	SP-A110	CEILING	100	0.125"	849	0.3	DIRECT	120/1/60	13	YES	YES	NO	YES	NO	15	1,C2	4/M-004
EF 11	GREENHECK	CUBE-160	ROOF MOUNTED UPBLAST	2,400	0.5"	1,038	12.1	BELT	120/1/60	[0.75]	YES	YES	YES	NO	NO	105	C4	5/M-003

GENERAL NOTES APPLICABLE TO ALL UNITS:
A. DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.
B. ALL UTILITY SET FANS SHALL BE PROVIDED WITH A THREADED DRAIN CONNECTION.
C. FOR UNITS SPECIFIED WITH A ROOF CURB, CONTRACTOR SHALL VERIFY PITCH OF ROOF BEFORE PURCHASE OF CURB.
D. ALL BELT DRIVE FANS SHALL BE PROVIDED WITH ADJUSTABLE DRIVES AND MOTOR COVERS.

UNIT SPECIFIC NOTES:
1. PROVIDE WITH MANUFACTURER'S FAN SPEED CONTROLLER. FAN SPEED CONTROLLERS SHALL BE PROVIDED FROM THE FACTORY WITH THE SPEED CONTROLLER INTERNALLY MOUNTED WITHIN THE FAN HOUSING AND WIRED.

CONTROL NOTES:
C1. CONTROL WITH SINGLE POLE SWITCH, REFER TO FLOOR PLAN FOR LOCATION. SWITCH PROVIDED AND INSTALLED BY ELECTRICAL.
C2. 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.
C3. CONTROL WITH 2 HOUR NO-HOLD TIMER, REFER TO FLOOR PLAN FOR LOCATION. SWITCH PROVIDED AND INSTALLED BY ELECTRICAL. FAN SHALL ONLY ENERGIZE AFTER THE MOTORIZED DAMPER IN LOUVER L2 HAS BEEN FULLY OPENED PER THE ACTUATOR'S OPEN/CLOSED INDICATOR (END SWITCH). REFER TO DETAIL 11/M-005.
C4. PROVIDE WITH 120V LINE VOLTAGE THERMOSTAT SET TO ENERGIZE FAN ON A TEMPERATURE RISE ABOVE 80°F.

INTAKE / EXHAUST HOOD SCHEDULE

TAG	MAKE	MODEL	THROAT SIZE INCHES	THROAT AREA IN FT²	CFM	ESP	THROAT VELOCITY FPM	ACCESSORIES			WEIGHT LBS	REMARKS SEE BELOW	INSTALLATION DETAIL
								BIRD GUARD	BACKDRAFT DAMPER	ROOF CURB			
IH 1	GREENHECK	GRSI	8Ø	0.37	75	0.01"	203	YES	YES	YES	25	NA	2/M-004
IH 2	GREENHECK	FGI	22X22	3.36	1,850	0.05"	550	YES	YES	YES	105	NA	2/M-004
IH 3	GREENHECK	FGI	18X18	2.25	950	0.05"	422	YES	YES	YES	80	NA	2/M-004
EH 1	GREENHECK	GRSR	10Ø	0.57	400	0.058"	702	YES	NO	YES	25	NA	2/M-004

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTED BY MISTAKE, OMISSION OR OTHERWISE SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2021
RRM IS A CALIFORNIA CORPORATION

REGISTERED PROFESSIONAL ENGINEER
JONATHAN P. STARRETT
M 34068
EXP. 6/30/26
MECHANICAL
STATE OF CALIFORNIA

CONSULTANT

3C Engineering
An EMCOR Company
(805) 540-1361
1533 Palm St, San Luis Obispo, CA, 93401

BY Mesa Energy Systems, Inc., ALL COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS RESERVE THIS DOCUMENT AS AN ORIGINAL AND UNPUBLISHED WORK PRODUCT. THIS WORK SHALL NOT BE DUPLICATED, COPIED, DISCLOSED OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH IT AS BEEN PREPARED, NOR SHALL IT BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF VISUAL CONTACT. THIS DOCUMENT SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

SCHEDULES

NO.	REVISION	DATE
1	PLAN CHECK RESPONSE 1	12/18/25
2	PLAN CHECK RESPONSE 2	02/27/26

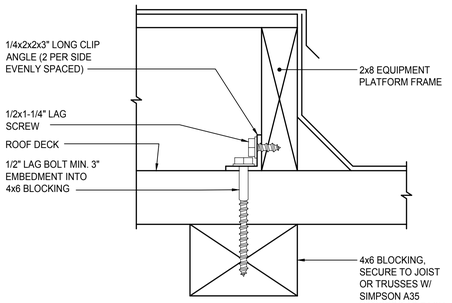
PROJECT MANAGER
DS
DRAWN BY
KM
CHECKED BY
BS
DATE
MAR 4, 2026
PROJECT NUMBER
2471-01-CI21

County of Madera – Certified Building Plans Approved Under the 2022 California Building Code (Title 24, Part 2) Effective January 1, 2023

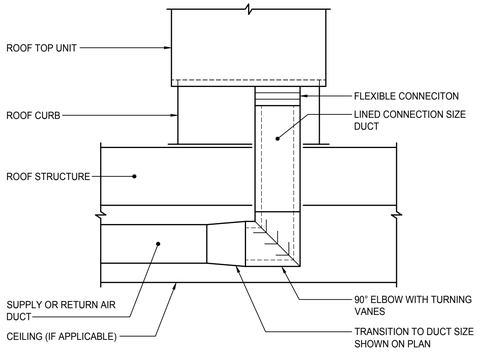
BID DOCUMENTS

SHEET
M-002

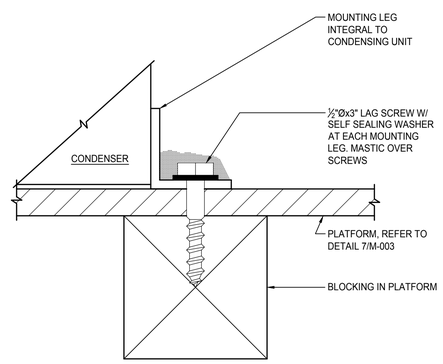
C:\Users\bswanson778e\appdata\local\temp\AcPublish_9856\Riverstone Fire Station Mechanical Lead.dwg BSwanson778E Feb 27,2026- 1:16pm



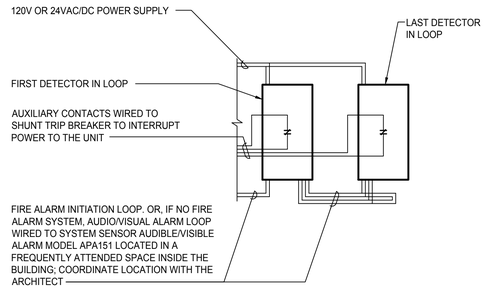
9 EQUIPMENT PLATFORM ANCHOR
NTS



6 DUCT TAKE-OFF AT ROOF MOUNTED UNIT
NTS

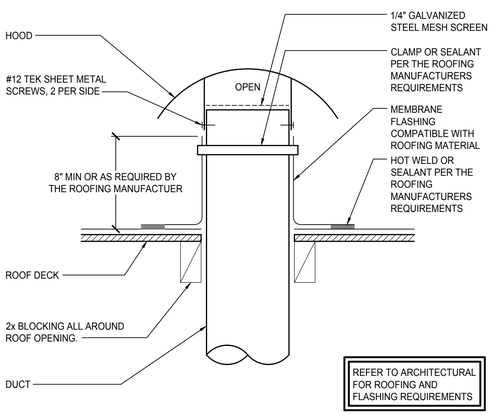


3 CONDENSING UNIT ANCHORAGE - PLATFORM
NTS



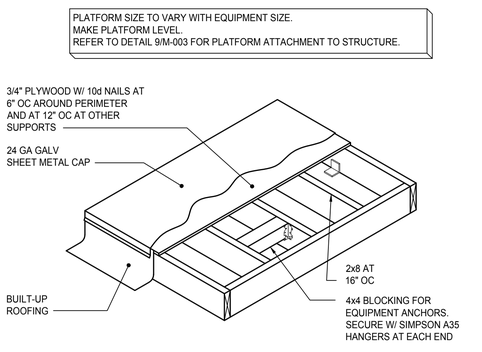
DUCT SMOKE DETECTOR: SYSTEM SENSOR MODEL D4120 WHEN LOCATED INSIDE THE BUILDING, MODEL D4120W WHEN LOCATED OUTSIDE OF THE BUILDING. UL LISTED #S911, FM APPROVED #3029700, CSFM LISTED #3242-1653:207 AND MSFM APPROVED #2202. PROVIDE DETECTORS IN THE SUPPLY AIR DUCTS OF SYSTEMS WITH AIR VOLUMES OF 2000 CFM OR GREATER, OR WHERE A SYSTEM SERVES A COMMON AREA IN CONJUNCTION WITH ANOTHER SYSTEM WITH A COMBINED CFM OF 2000 OR GREATER. UNIT MUST BE INSTALLED IN A LOCATION THAT MEETS THE MANUFACTURERS MOUNTING CRITERIA AND THAT IS ACCESSIBLE FOR MAINTENANCE/TESTING UPON COMPLETION OF CONSTRUCTION. SMOKE DETECTOR PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR. ALL WIRING BY THE ELECTRICAL CONTRACTOR

1 DUCT SMOKE DETECTOR
NTS

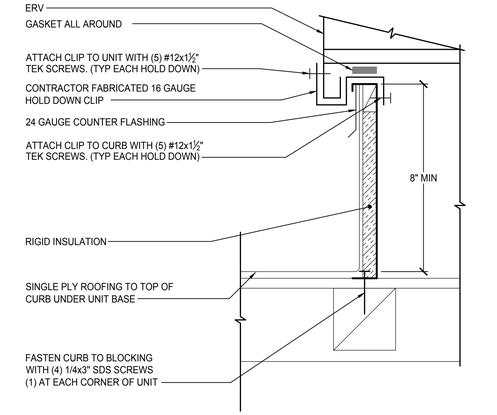


REFER TO ARCHITECTURAL FOR ROOFING AND FLASHING REQUIREMENTS

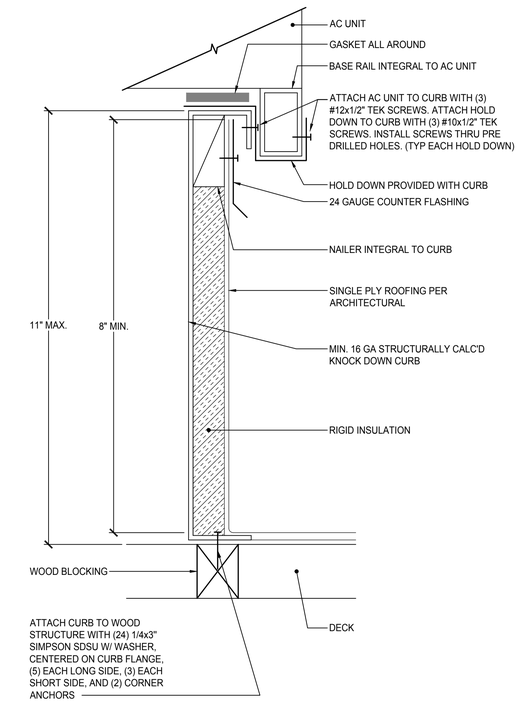
10 ROOF CAP
NTS



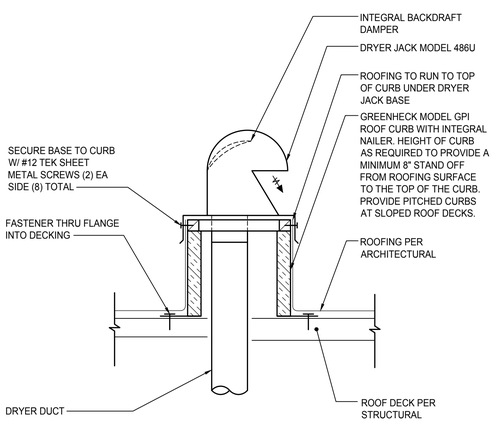
7 EQUIPMENT PLATFORM
NTS



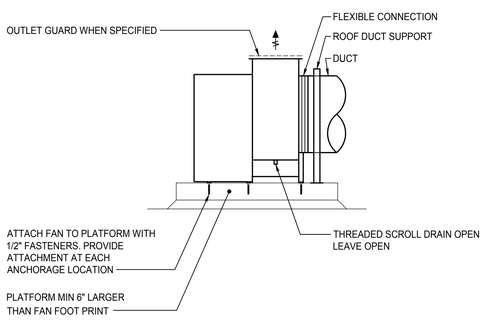
4 ERV-1 MOUNTING
NTS



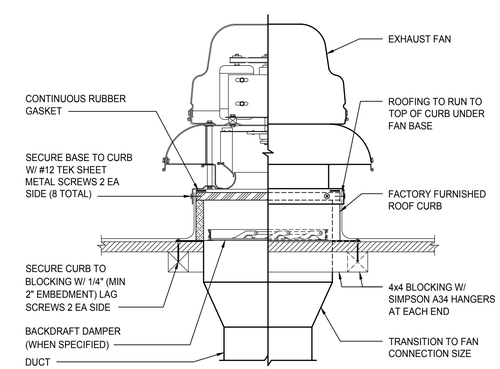
2 KNOCK DOWN CURB
NTS



11 DRYER VENT TERMINATION
NTS



8 UTILITY FAN MOUNTING
NTS



5 EXHAUST FAN MOUNTING
NTS

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTED ITEMS DISCUSSED IN MEETINGS OR IN WRITING SHALL NOTBE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2021
RRM IS A CALIFORNIA CORPORATION

REGISTERED PROFESSIONAL ENGINEER JONATHAN P. STARRETT M 34068 EXP. 6/30/26 MECHANICAL STATE OF CALIFORNIA

CONSULTANT

3C Engineering
An EMCOR Company
(805) 540-1361
1533 Palm St, San Luis Obispo, CA, 93401

BY Mesa Energy Systems, Inc., ALL COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS RESERVE THIS DOCUMENT AS AN ORIGINAL AND UNPUBLISHED WORK PRODUCT. THIS WORK SHALL NOT BE DUPLICATED, COPIED, DISCLOSED OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH IT AS BEEN PREPARED, NOR SHALL IT BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF VISUAL CONTACT. THIS DOCUMENT SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

DETAILS

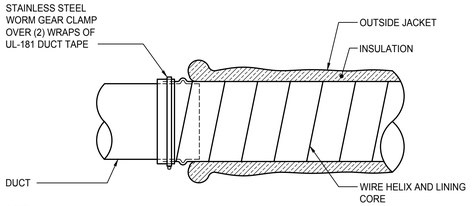
NO.	REVISION	DATE
1	PLAN CHECK RESPONSE 1	12/18/25
2	PLAN CHECK RESPONSE 2	02/27/26

PROJECT MANAGER: DS
DRAWN BY: KM | CHECKED BY: BS
DATE: NOV. 4, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: M-003

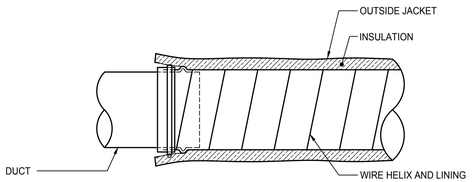
County of Madera – Planning Department
Fire Station Building Plans Approved under the 2022 California Building Codes and Ordinances, not to be used without signature
Date: 05/04/2026

BID DOCUMENTS

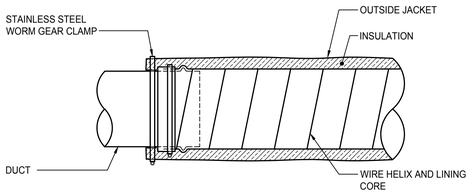
C:\Users\bsvanson778e\appdata\local\temp\AcPublish_9656\Riverstone Fire Station Mechanical Lead.dwg BSvanson778E Feb 27,2026-1:16pm



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.

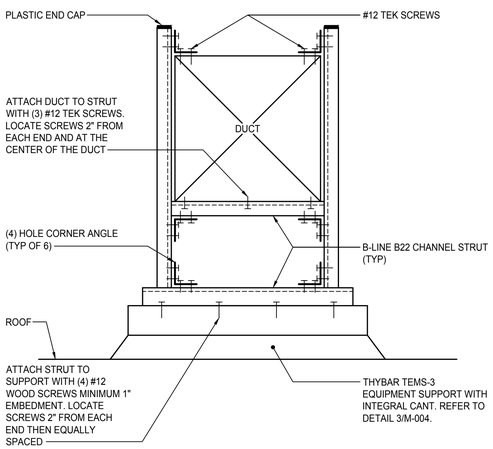


STEP - 2:
PULL THE INSULATION AND JACKET OVER THE TOP OF THE CORE AND THE CLAMP. TUCK THE OUTSIDE JACKET UNDER THE INSULATION.

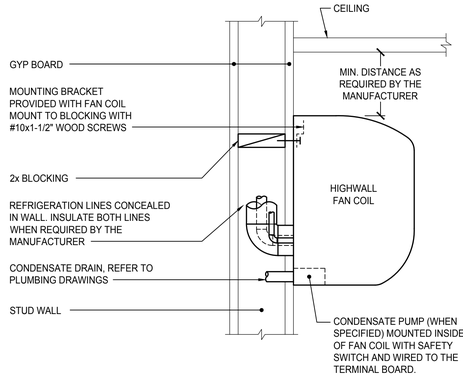


STEP - 3:
INSTALL A CLAMP AROUND THE ENTIRE FLEXIBLE DUCT ASSEMBLY

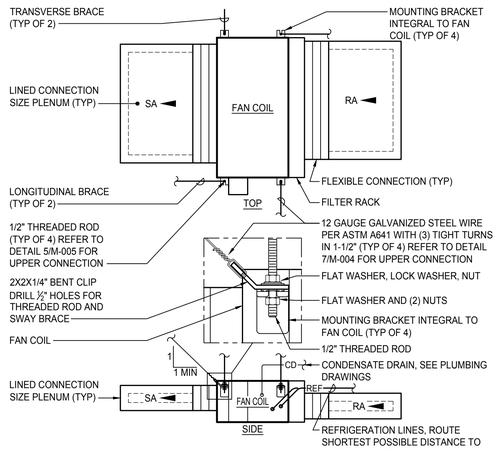
9 FLEXIBLE DUCT CONNECTION
NTS



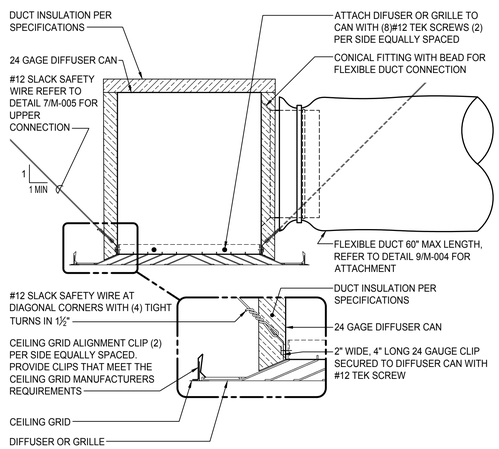
10 ROOF DUCT SUPPORT
NTS



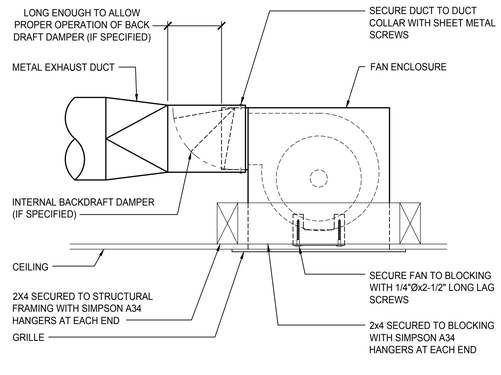
6 HIGH WALL FAN COIL MOUNTING (WOOD FRAMING)
NTS



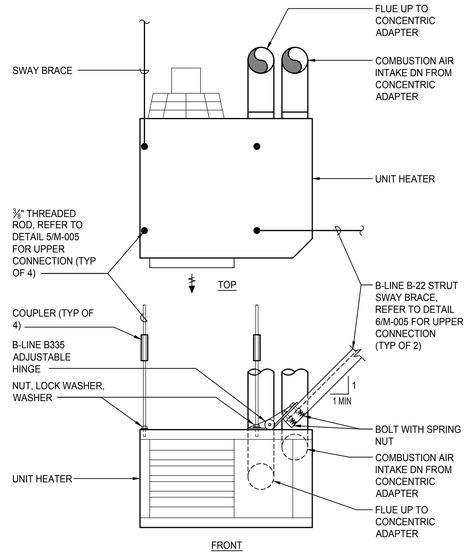
7 SUSPENDED FAN COIL
NTS



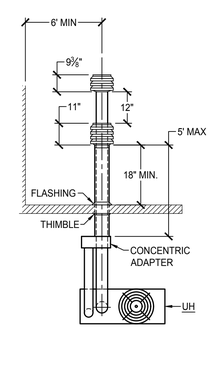
8 DIFFUSER OR GRILLE INSTALLATION (LAY-IN CEILING)
NTS



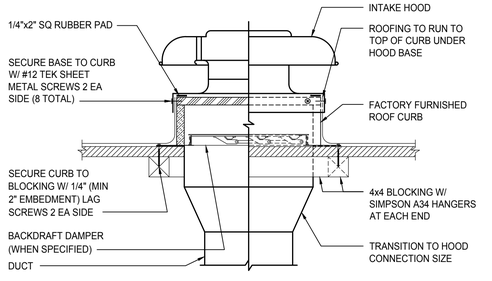
4 CEILING EXHAUST FAN
NTS



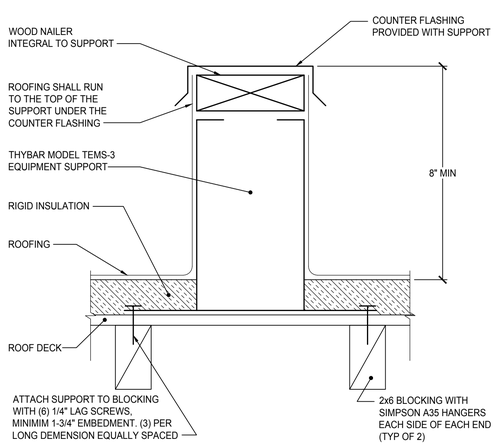
5 SUSPENDED UNIT HEATER
NTS



1 FLUE/INTAKE
NTS



2 INTAKE/EXHAUST HOOD MOUNTING
NTS



3 EQUIPMENT SUPPORT
NTS

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PLAN CHECK OR PERMIT SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2021
RRM IS A CALIFORNIA CORPORATION

CONSULTANT

3C Engineering
An EMCOR Company
(805) 540-1361
1533 Palm St, San Luis Obispo, CA, 93401

BY Mesa Energy Systems, Inc., ALL COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS RESERVE THIS DOCUMENT AS AN ORIGINAL AND UNPUBLISHED WORK PRODUCT. THIS WORK SHALL NOT BE DUPLICATED, COPIED, DISCLOSED OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH IT AS BEEN PREPARED, NOR SHALL IT BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF VISUAL CONTACT. THIS DOCUMENT SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

DETAILS

BID DOCUMENTS

NO.	REVISION	DATE
1	PLAN CHECK RESPONSE 1	12/18/25
2	PLAN CHECK RESPONSE 2	02/27/26

PROJECT MANAGER
DS

DRAWN BY
KM

CHECKED BY
BS

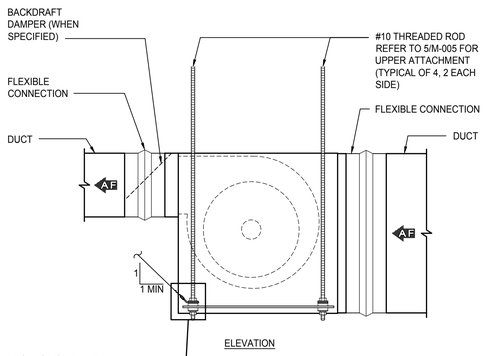
DATE
Date: 05/04/2026
May 4, 2026

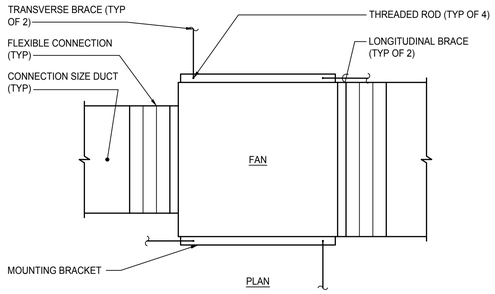
PROJECT NUMBER
2471-01-CI21

SHEET
M-004

City of Madera – Certified Building Plans Approved Subject to Conditions Noted Underline 2022 California Building Code Effective January 1, 2023

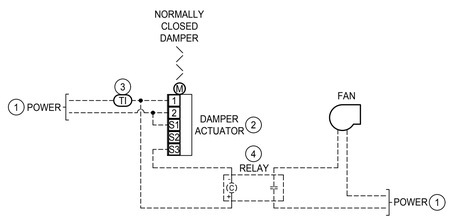
C:\Users\bswanson778e\appdata\local\temp\AcPublish_9856\Riverstone Fire Station Mechanical Lead.dwg BSwanson778E Feb 27, 2026 - 1:16pm



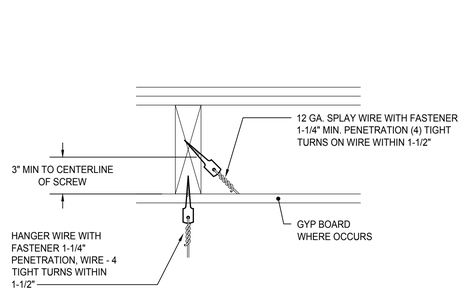


10 IN-LINE EXHAUST FAN
NTS

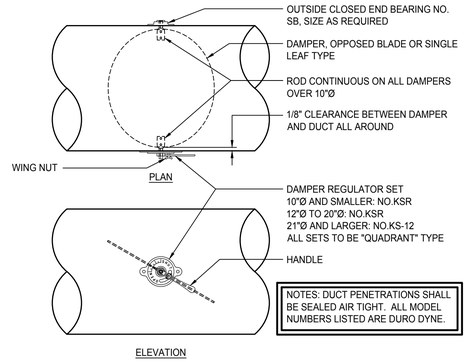
DETAIL NOTES	
1	LINE VOLTAGE PROVIDED BY ELECTRICAL.
2	DAMPER ACTUATOR PROVIDED BY MECHANICAL. SET THE ADJUSTABLE AUXILIARY SWITCH TO "1" TO ACTIVATE S1 AND S3 CLOSURE WHEN DAMPER IS FULLY OPENED.
3	2 HOUR NO-HOLD TIMER PROVIDED BY ELECTRICAL.
4	FUNCTIONAL DEVICES RIBU1C 120VAC 10 AMP RELAY PROVIDED BY ELECTRICAL. MOUNT RELAY WITHIN THE ACTUATOR HOUSING AT THE LOUVER.



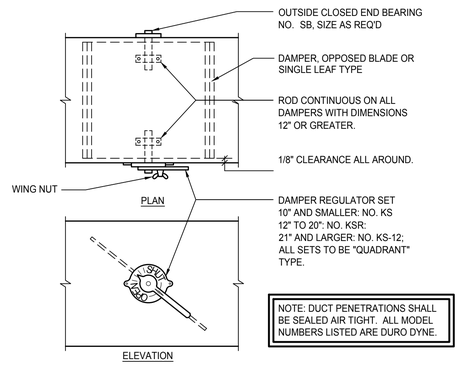
11 FAN INTERLOCK WITH DAMPER CONTROL DETAIL
NTS



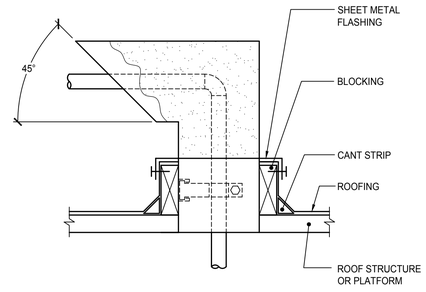
7 WIRE CONNECTION
NTS



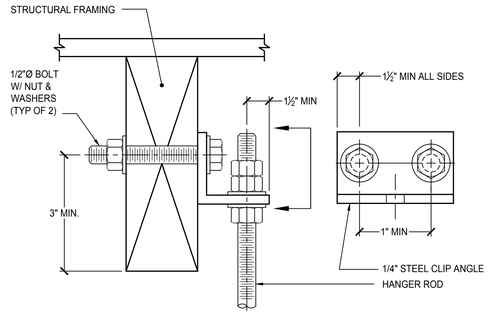
8 ROUND VOLUME DAMPER
NTS



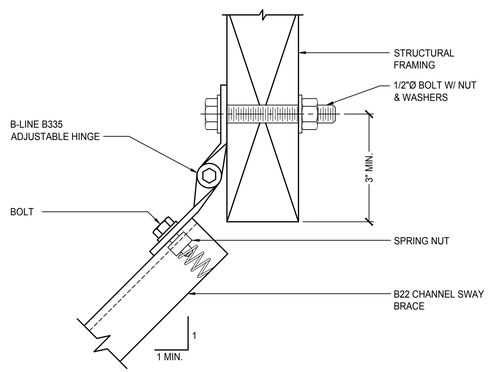
9 RECTANGULAR VOLUME DAMPER
NTS



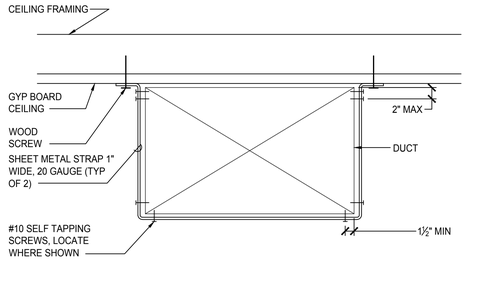
4 PIPE THROUGH ROOF
NTS



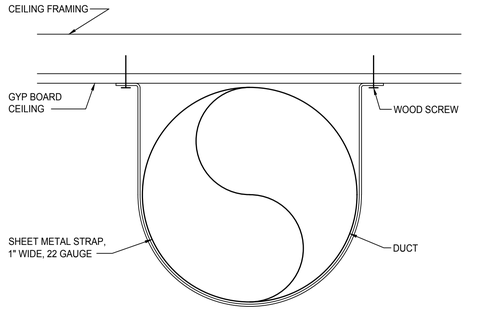
5 SUPPORT CONNECTION
NTS



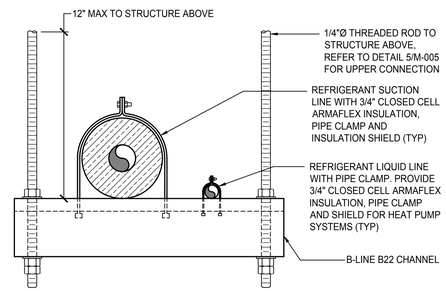
6 SWAY BRACE CONNECTION (STRUT)
NTS



1 EXPOSED RECTANGULAR DUCT HANGER
NTS



2 EXPOSED ROUND DUCT HANGER
NTS



3 PIPE SUPPORT
NTS

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTED ITEMS DOCUMENTED FOR CONFORMANCE WITH THE DESIGN INTENT SHALL NOTBE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2021
RRM IS A CALIFORNIA CORPORATION

CONSULTANT

3C Engineering
An EMCOR Company
(805) 540-1361
1533 Palm St, San Luis Obispo, CA, 93401

BY Mesa Energy Systems, Inc., ALL COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS RESERVE THIS DOCUMENT AS AN ORIGINAL AND UNPUBLISHED WORK PRODUCT. THIS WORK SHALL NOT BE DUPLICATED, COPIED, DISCLOSED OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH IT AS BEEN PREPARED, NOR SHALL IT BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF VISUAL CONTACT. THIS DOCUMENT SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

DETAILS

BID DOCUMENTS

NO.	REVISION	DATE
1	PLAN CHECK RESPONSE 1	12/18/25
2	PLAN CHECK RESPONSE 2	02/27/26

PROJECT MANAGER: DS
DRAWN BY: KM
CHECKED BY: BS
DATE: Date 05/04/2026
NOV 4, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: M-005

County of Madera – Construction Plans Approved Under the 2022 California Building, Fire & Safety Codes and Ordinances, not to be changed without signature
Planning Department Approved

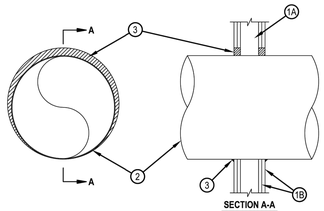
C:\Users\bsvanson778e\appdata\local\temp\AcPublish_9856\Riverstone Fire Station Mechanical Lead.dwg BSvanson778E Feb 27,2026-1:16pm

WL 7214

System No. W-L-7214

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Ratings — 1 and 2 Hr (See Items 1 and 3)
	FTH Rating — 0 Hr

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire rated wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features.
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced 24 in. (610 mm) OC.
   B. Gypsum Board* — For 1 hr assembly, one layer of min 5/8 in. (16 mm) thick wallboard as required in the individual Wall and Partition Design. For 2 hr assembly, two layers of min 5/8 in. (16 mm) thick wallboard as required in the individual Wall and Partition Design. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls and 21-3/4 in. (552 mm) for steel stud walls.
   The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrant — Galv steel duct to be installed concentrically or eccentrically within the firestop system. The annular space between the duct and periphery of opening shall be 0 in. (point contact) and max 1-1/2 in. (38 mm). Duct to be rigidly supported on both sides of wall assembly.
   A. Spiral Wound HVAC Duct — Nom 20 in. (508 mm) diam (or smaller) No. 24 MSG (or heavier) galv steel spiral wound duct.
   B. Sheet Metal Duct — Nom 12 in. (305 mm) diam (or smaller) No. 28 MSG (or heavier) galv sheet steel duct.
3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. and 1-1/4 in. (16 and 32 mm) thickness of fill material applied within annulus, flush with both surfaces of wall assembly for 1 or 2 hr rated walls, respectively. At the point contact location between duct and wallboard, a min 1/2 in. (13 mm) diam bead of sealant shall be applied at the wallboard/duct interface on both surfaces of wall assembly.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-S SIL GG Sealant

*Bearing the UL Classification Mark

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 14, 2014

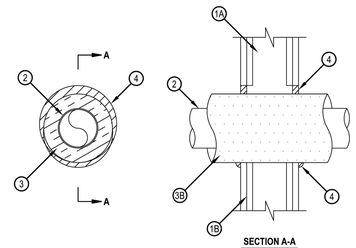
2 DUCT THRU 1/2 HR RATED WALL

WL 5257

System No. W-L-5257

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 0 and 1 Hr (See Items 1 and 3)	FT Ratings — 0 and 1 Hr (See Items 1 and 3)
L Rating At Ambient — 4 CFM/sq 4 ft (See Item)	FH Ratings — 1 and 2 Hr (See Item 1)
L Rating At 400 F — Less Than 1 CFM/sq ft (See Item)	FTH Ratings — 0 and 1 Hr (See Items 1 and 3)
	L Rating At Ambient — 4 CFM/sq ft (See Item)
	L Rating At 400 F — Less Than 1 CFM/sq ft (See Item)

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115



SECTION A-A

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. February 21, 2012

WL 5257

1. Wall Assembly — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide, with square or tapered edges. Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. Max diam of opening is 8 in. (203 mm).
   The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed. The hourly T, FT and FTH Ratings of the firestop system are 1 hr for 2 hr fire rated walls and 0 hr for 1 hr fire rated walls.
2. Through Penetrant — One metallic pipe or tube to be installed eccentrically or concentrically within the firestop system. Pipe or tube to be rigidly supported on both sides of the wall assembly. The following types and sizes of metallic pipes and tubes may be used:
   A. Steel Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.
   B. Iron Pipe — Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.
   C. Copper Pipe — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
   D. Copper Tube — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tube.
3. Pipe Covering* — Min 1 in. (25 mm) to max 1-1/2 in. (38 mm) thick hollow cylindrical heavy density (3.5 pcf or 24 kg/m3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space between the insulated pipe and the periphery of the opening shall be min 0 in. (point contact) to max 7/8 in. (22 mm). When pipe covering material thickness is less than 1-1/2 in. (38 mm), the T, FTand FTH Ratings are 0 Hr.
   See Pipe Equipment Covering — Materials— (BRGU) Category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
4. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall assembly. At point contact location, min 1/2 in. (13 mm) diam bead of fill material applied at insulated metallic pipe/wall interface on both surfaces of wall. L Ratings apply only when FS-One Sealant is used.
   HILTI CONSTRUCTION CHEMICALS, DIV OF
   HILTI INC — FS-One Sealant, CP 606 Sealant or CP 601S Sealant

*Bearing the UL Classification Mark

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. February 21, 2012

1 INSULATED COPPER PIPE THRU 1/2 HR RATED WALL

BID DOCUMENTS

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTED DOCUMENTS ARE NOT TO BE USED FOR CONSTRUCTION UNLESS SIGNED BY RRM. ANY REUSE OF THESE PLANS WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY RRM DESIGN GROUP SHALL NOTBE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2021
RRM IS A CALIFORNIA CORPORATION

REGISTERED PROFESSIONAL ENGINEER
JONATHAN P. STARRETT
M 34068
EXP. 6/30/26
MECHANICAL
STATE OF CALIFORNIA

CONSULTANT

3C Engineering
An EMCOR Company
(805) 540-1343
1533 Palm St, San Luis Obispo, CA, 93401

BY Mesa Energy Systems, Inc., ALL COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS RESERVE THIS DOCUMENT AS AN ORIGINAL AND UNPUBLISHED WORK PRODUCT. THIS WORK SHALL NOT BE DUPLICATED, COPIED, DISCLOSED OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH IT AS BEEN PREPARED, NOR SHALL IT BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF VISUAL CONTACT. THIS DOCUMENT SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

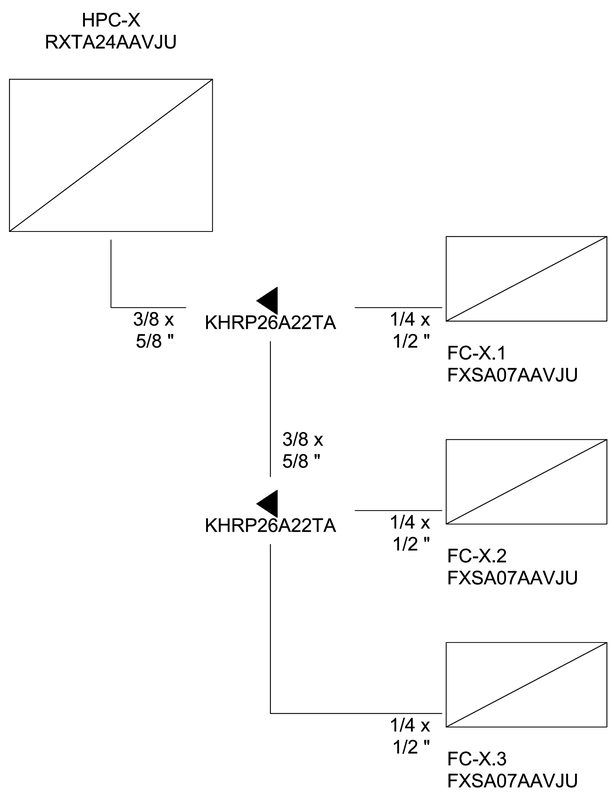
DETAILS

NO.	REVISION	DATE
1	PLAN CHECK RESPONSE 1	12/18/25
2	PLAN CHECK RESPONSE 2	02/27/26

PROJECT MANAGER: DS
DRAWN BY: KM
CHECKED BY: BS
DATE: March 4, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: M-006

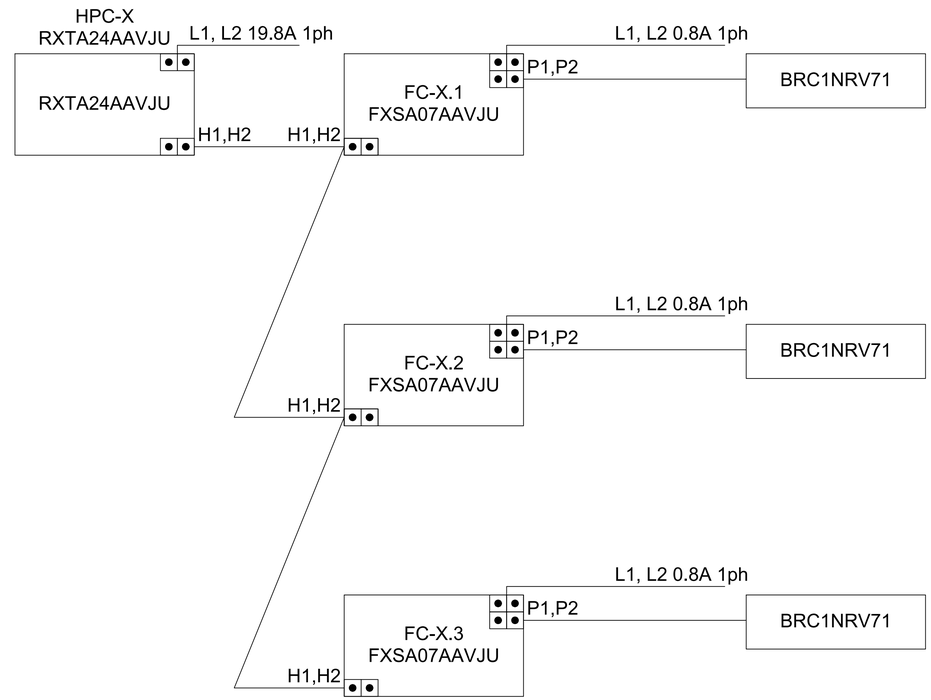
City of Madera – Community Development Department
Plans Approved Under the 2022 California Building Codes and Ordinances, not valid without signature
Date 05/04/2026

C:\Users\bswanson778e\appdata\local\temp\AcPublish_9856\Riverstone Fire Station Mechanical Lead.dwg BSwanson778E Feb 27,2026 - 1:16pm



2 HPC-1,2 PIPING DIAGRAM

SCALE: NTS



1 HPC-1,2 WIRING DIAGRAM

SCALE: NTS

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMISSION OR DISTRIBUTION OF THESE DOCUMENTS TO MEET OFFICIAL REGULATORY REQUIREMENTS OR FOR OTHER PURPOSES IN CONNECTION WITH THE PROJECT IS NOT CONSIDERED PUBLICATION AND SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2021
RRM IS A CALIFORNIA CORPORATION

CONSULTANT

3C Engineering
An EMCOR Company
(805) 540-1361
1320 Palm St, San Luis Obispo, CA, 93401

BY Mesa Energy Systems, Inc., ALL COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS RESERVE THIS DOCUMENT AS AN ORIGINAL AND UNPUBLISHED WORK PRODUCT. THIS WORK SHALL NOT BE DUPLICATED, COPIED, DISCLOSED OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH IT AS BEEN PREPARED, NOR SHALL IT BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF VISUAL CONTACT. THIS DOCUMENT SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

BID DOCUMENTS

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

HPC-1,2 WIRING AND PIPING SCHEMATIC DIAGRAMS

NO.	REVISION	DATE
1	PLAN CHECK RESPONSE 1	12/18/25
2	PLAN CHECK RESPONSE 2	02/27/26

PROJECT MANAGER
DS

DRAWN BY: KM | CHECKED BY: BS

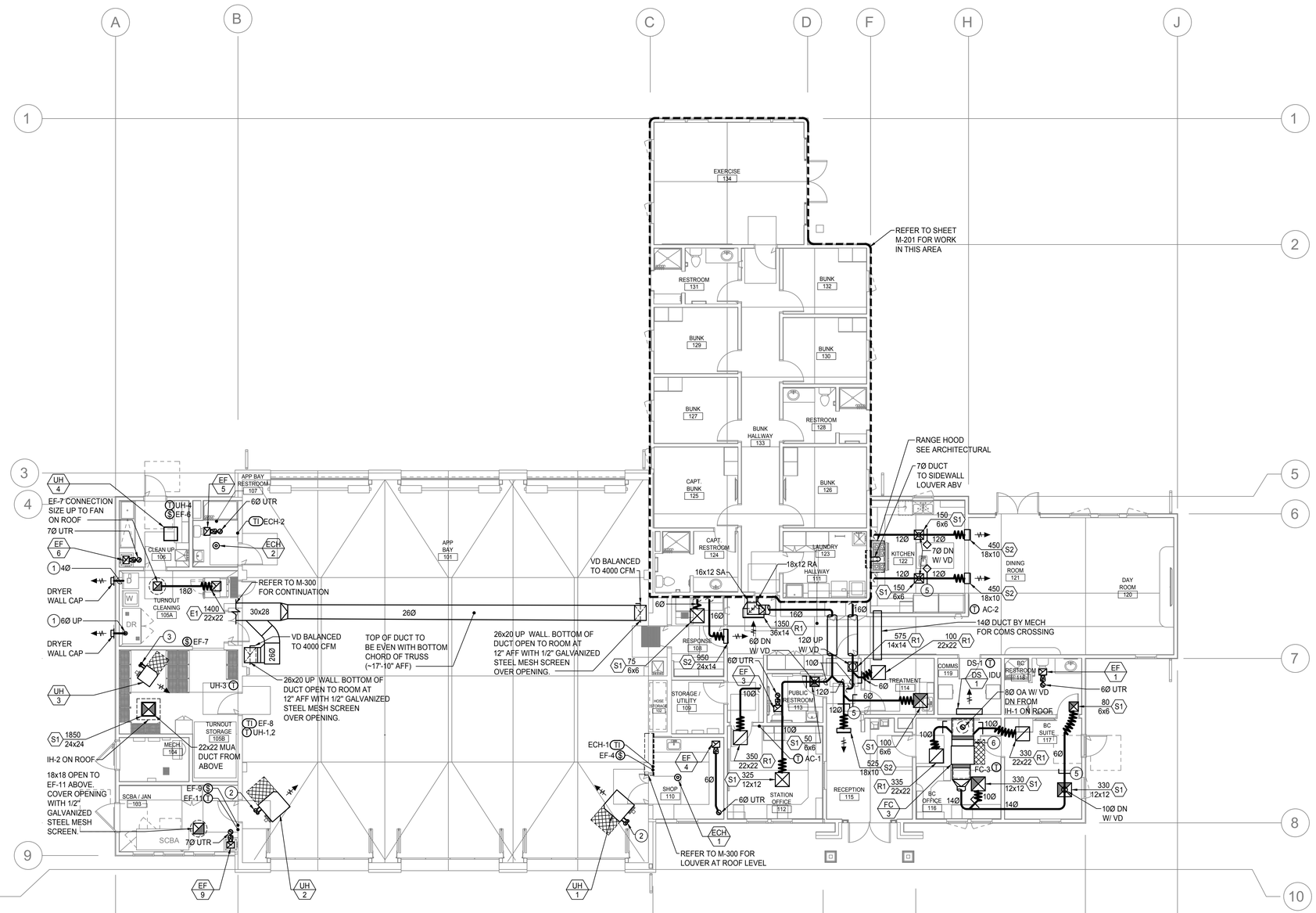
DATE: Date 05/04/2026
NOV 4, 2026

PROJECT NUMBER
2471-01-CI21

SHEET
M-007

County of Madera – Community Development Department
This Plan Has Been Approved Under the 2022 California Building Codes and Ordinances, not less than the 2022 California Fire Code
Building Division
without signature

C:\Users\bswanson778\e\appdata\local\temp\AcPublish_9656\Riverstone Fire Station Mechanical Lead.dwg BSwanson778E Feb 27,2026-1:16pm



KEY NOTES

APPLICABLE TO THIS SHEET ONLY

1	DRYER EXHAUST DUCT. DUCT SHALL BE SMOOTH-WALLED DUCT WITH A SINGLE LONGITUDINAL SEAM. 24 GAUGE. DUCT SHALL NOT BE ASSEMBLED WITH SCREWS OR OTHER FASTENERS THAT EXTEND INTO THE DUCT. WHERE JOINING DUCTS, THE MALE END SHALL BE INSERTED IN THE DIRECTION OF AIRFLOW. TERMINATE AT WALL CAP WITH INTEGRAL BACKDRAFT DAMPER. MAINTAIN MIN 3' FROM OPENINGS INTO BUILDING.
2	5Ø FLUE AND 6Ø CA INTAKE UP TO CONCENTRIC TERMINATION JUST BELOW ROOF, REFER TO DETAIL 1/M-004.
3	4Ø FLUE AND CA INTAKE UP TO CONCENTRIC TERMINATION JUST BELOW ROOF, REFER TO DETAIL 1/M-004.
4	AIRSCAPE SFB-V-16X25 FILTER BOX WITH (2) GLASFLOSS M1216252 16X25X2 MERV-13 FILTERS. SIZED FOR AN INITIAL PRESSURE DROP OF 0.38" W.C. AT 500 FPM.
5	TYPICAL VOLUME DAMPER, REFER TO DETAILS 8/M-005 AND 9/M-005
6	CONTRACTOR FABRICATED 2" MERV-13 FILTER BOX.

HVAC GENERAL NOTES

APPLICABLE TO THIS SHEET ONLY

1	VERIFY FINAL THERMOSTAT LOCATIONS WITH OWNER PRIOR TO INSTALLATION. IF OWNER INTENDS TO CHANGE LOCATION OF THERMOSTAT, CONTACT ENGINEER OF RECORD PRIOR TO FINALIZING LOCATION.
2	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.
3	REFER TO DETAILS 1/M-006 AND 2/M-006 FOR FIRESTOP REQUIREMENTS WHERE PIPING AND DUCTWORK PENETRATE THE 1/2 HOUR FIRE RATINGS.
4	REFER TO DETAILS 1/M-005 AND 2/M-005 FOR EXPOSED DUCT SUPPORT.

PASSIVE MAKE-UP AIR SCHEDULE

ROOM	DOOR LOUVER MINIMUM FREE AREA FT²	DOOR UNDER CUT
CLEAN UP 106	NA	1"
APP BAY RESTROOM 107	NA	1"
PUBLIC RESTROOM 113	NA	1"
BC RESTROOM 118	NA	1"
SCBA / JAN 103	5.1	1"

FLOOR PLANS

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

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SHALLOW-STYLE CONSULTANTS' REUSE OF RRM'S DRAWINGS SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.

RRM DESIGN GROUP COPYRIGHT 2021
RRM IS A CALIFORNIA CORPORATION

REGISTERED PROFESSIONAL ENGINEER — JONATHAN P. STARRETT — M 34068 — EXP. 6/30/26 — MECHANICAL — STATE OF CALIFORNIA

CONSULTANT

3C Engineering
An EMCOR Company
(805) 540-1343
1533 Palm St, San Luis Obispo, CA, 93401

BY Mesa Energy Systems, Inc., ALL COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS RESERVE THIS DOCUMENT AS AN ORIGINAL AND UNPUBLISHED WORK PRODUCT. THIS WORK SHALL NOT BE DUPLICATED, COPIED, DISCLOSED OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH IT AS BEEN PREPARED, NOR SHALL IT BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF VISUAL CONTACT. THIS DOCUMENT SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

FLOOR PLANS

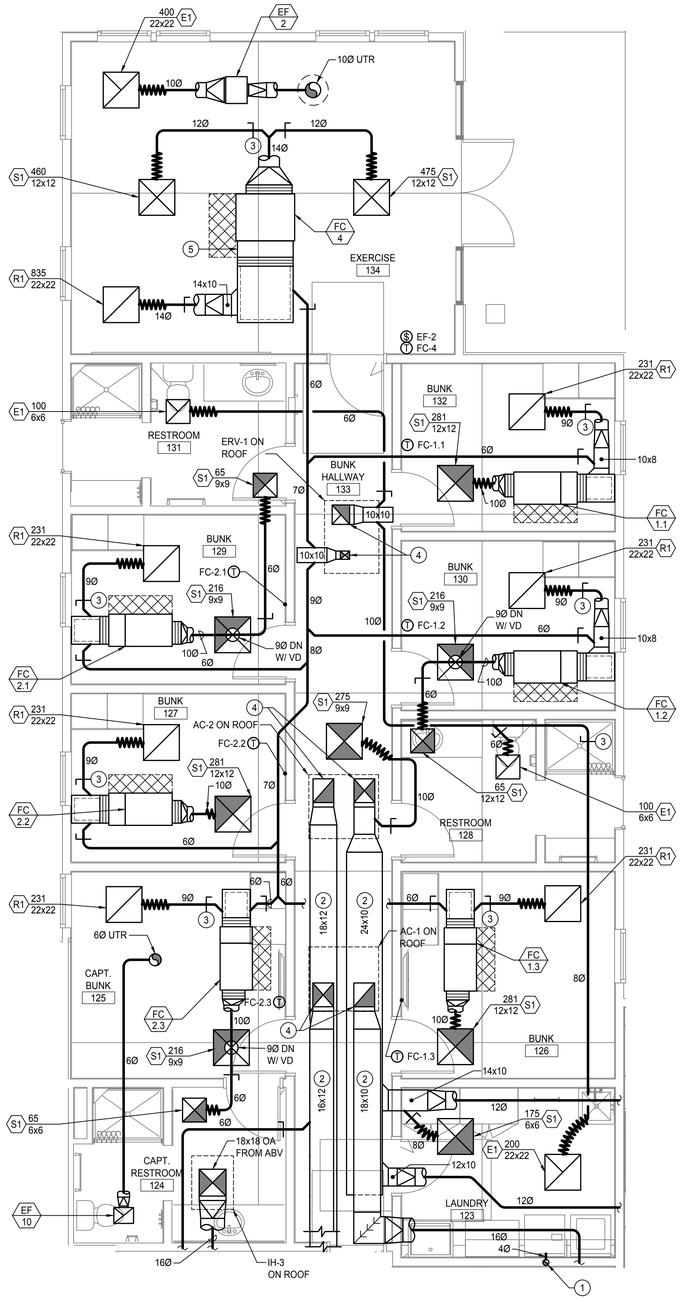
NO.	REVISION	DATE
1	PLAN CHECK RESPONSE 1	12/18/25
2	PLAN CHECK RESPONSE 2	02/27/26

PROJECT MANAGER: DS
DRAWN BY: KM | CHECKED BY: BS
DATE: NOV. 4, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: M-200

Approved for Permit Issuance
County of Madera – Community Development Division – Building Permits
Approved under the 2022 California Building Code and Fire Code

BID DOCUMENTS

C:\Users\bswanson778e\appdata\local\temp\AcPublish_9856\Riverstone Fire Station Mechanical Plans.dwg BSwanson778E Feb 27,2026-1:17pm



ENLARGED FLOOR PLANS

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

KEY NOTES

APPLICABLE TO THIS SHEET ONLY

1	DRYER EXHAUST DUCT. DUCT SHALL BE SMOOTH-WALLED DUCT WITH A SINGLE LONGITUDINAL SEAM. 24 GAUGE. DUCT SHALL NOT BE ASSEMBLED WITH SCREWS OR OTHER FASTENERS THAT EXTEND INTO THE DUCT. WHERE JOINING DUCTS, THE MALE END SHALL BE INSERTED IN THE DIRECTION OF AIRFLOW. TERMINATE AT ROOF JACK WITH INTEGRAL BACKDRAFT DAMPER. MAINTAIN MIN 3' FROM OPENINGS INTO BUILDING.
2	AC-2 SA/RA DUCTS RUN BELOW AC-1 SA/RA DUCTS
3	TYPICAL VOLUME DAMPER, REFER TO DETAIL 8/M-005.
4	TYPICAL DUCT CONNECTION AT UNIT, REFER TO DETAIL 6/M-003.
5	CONTRACTOR FABRICATED 2" MERV-13 FILTER BOX.

HVAC GENERAL NOTES

APPLICABLE TO THIS SHEET ONLY

1	VERIFY FINAL THERMOSTAT LOCATIONS WITH OWNER PRIOR TO INSTALLATION. IF OWNER INTENDS TO CHANGE LOCATION OF THERMOSTAT, CONTACT ENGINEER OF RECORD PRIOR TO FINALIZING LOCATION.
2	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.
3	REFER TO DETAILS 1/M-006 AND 2/M-006 FOR FIRESTOP REQUIREMENTS WHERE PIPING AND DUCTWORK PENETRATE THE 1/2 HOUR FIRE RATINGS.

PASSIVE MAKE-UP AIR SCHEDULE

ROOM	DOOR LOUVER MINIMUM FREE AREA FT²	DOOR UNDER CUT
LAUNDRY 123	NA	1"
CAPT. RR 124	NA	1"
RESTROOM 128	NA	1"
RESTROOM 131	NA	1"

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OR DISTRIBUTION FOR PURPOSES OF PERMIT SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2021
RRM IS A CALIFORNIA CORPORATION

CONSULTANT

3C Engineering
An EMCOR Company
(805) 540-1361
1533 Palm St, San Luis Obispo, CA, 93401

BY Mesa Energy Systems, Inc., ALL COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS RESERVE THIS DOCUMENT AS AN ORIGINAL AND UNPUBLISHED WORK PRODUCT. THIS WORK SHALL NOT BE DUPLICATED, COPIED, DISCLOSED OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH IT AS BEEN PREPARED, NOR SHALL IT BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF VISUAL CONTACT. THIS DOCUMENT SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

BID DOCUMENTS

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

ENLARGED FLOOR PLANS

NO.	REVISION	DATE
1	PLAN CHECK RESPONSE 1	12/18/25
2	PLAN CHECK RESPONSE 2	02/27/26

PROJECT MANAGER: DS
DRAWN BY: KM
CHECKED BY: BS
DATE: March 4, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: M-201

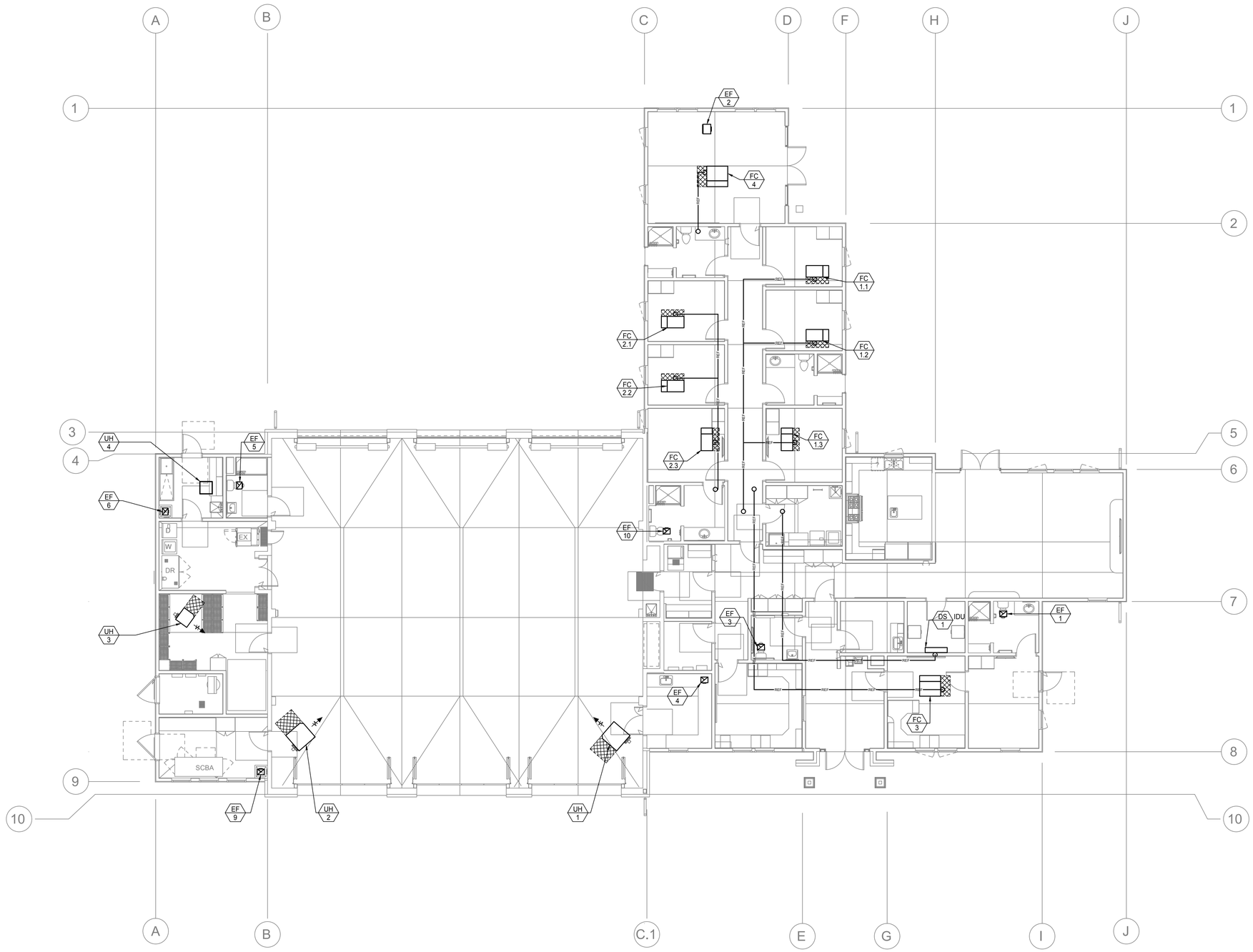
City of Madera – Community Development Department – Building Division
Plans Approved
Date: 05/04/2026
Permit Required
Plans and Specifications shall comply with all City of Madera Codes and Ordinances, and the 2022 California Building Code (CBC) and all other applicable codes in effect at the time of building permit submittal. Approval of these plans does not permit any violation of any State or Federal law, code, ordinance, regulation or rule. Approval of these plans does not authorize the omission of any item required by the CBC or any other applicable code in effect at the time of building permit submittal, nor does it authorize the inclusion of any item not in compliance with the CBC or any other applicable code in effect at the time of building permit submittal, even though such item may not be specifically listed or detailed in the approved plans. Approval of these plans does not authorize the construction of any building or structure on any location other than a lawfully established lot. Approval of these plans does not authorize any violation of any recorded covenants, conditions or restrictions (CC&Rs) that may be applicable to the property. Approval of these plans does not authorize any violation of any easement or other encumbrance on the property. Approval of these plans does not authorize any violation of any zoning ordinance or other land use regulation. Approval of these plans does not authorize any violation of any grading ordinance or other land use regulation. Approval of these plans does not authorize any violation of any flood hazard ordinance or other land use regulation. Approval of these plans does not authorize any violation of any fire code or other land use regulation. Approval of these plans does not authorize any violation of any health code or other land use regulation. Approval of these plans does not authorize any violation of any environmental protection ordinance or other land use regulation. Approval of these plans does not authorize any violation of any historic preservation ordinance or other land use regulation. Approval of these plans does not authorize any violation of any other ordinance or regulation. Approval of these plans does not authorize any violation of any law, code, ordinance, regulation or rule. Approval of these plans does not authorize any violation of any State or Federal law, code, ordinance, regulation or rule.

C:\Users\bswanson778e\appdata\local\temp\AcPublish_9856\Riverstone Fire Station Mechanical Plans.dwg BSwanson778E Feb 27, 2026-1:18pm

HVAC GENERAL NOTES

APPLICABLE TO THIS SHEET ONLY

1	REFER TO DETAIL 3/M-005 FOR FOR REFRIGERANT PIPING SUPPORT.
2	REFER TO DETAILS 1/M-006 AND 2/M-006 FOR FIRESTOP REQUIREMENTS WHERE PIPING AND DUCTWORK PENETRATE THE 1/2 HOUR FIRE RATINGS.
3	REFER TO 1/M-007 AND 2/M-007 FOR HPC-1,2 WIRING AND REFRIGERANT PIPING SCHEMATIC DIAGRAMS.



PIPING FLOOR PLAN

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

rrm design group

rrmdesign.com | (805) 543-1794

3765 S. Higuera, San Luis Obispo, CA 93401

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMISSION OR DISTRIBUTION OF THESE DOCUMENTS FOR PERMIT SHALL NOTBE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.

RRM DESIGN GROUP COPYRIGHT 2021
RRM IS A CALIFORNIA CORPORATION

REGISTERED PROFESSIONAL ENGINEER
JONATHAN P. STARRETT
M 34068
EXP. 6/30/26
MECHANICAL
STATE OF CALIFORNIA

CONSULTANT

3C Engineering
An EMCOR Company
(916) 940-1343
1110 Palm St, San Luis Obispo, CA, 93401

BY Mesa Energy Systems, Inc., ALL COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS RESERVE THIS DOCUMENT AS AN ORIGINAL AND UNPUBLISHED WORK PRODUCT. THIS WORK SHALL NOT BE DUPLICATED, COPIED, DISCLOSED OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH IT AS BEEN PREPARED, NOR SHALL IT BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF VISUAL CONTACT. THIS DOCUMENT SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

PIPING FLOOR PLAN

NO.	REVISION	DATE
1	PLAN CHECK RESPONSE 1	12/18/25
2	PLAN CHECK RESPONSE 2	02/27/26

PROJECT MANAGER
DS

DRAWN BY KM | **CHECKED BY** BS

DATE Date 05/04/2026
March 4, 2026

PROJECT NUMBER
2471-01-CI21

SHEET
M-210

BID DOCUMENTS

City of Madera – Community Development Department – Building Division
Plans Approved Under the 2022 California Building Codes and Ordinances, not valid without signature

C:\Users\bswanson778e\appdata\local\temp\AcPublish_9856\Riverstone Fire Station Mechanical Plans.dwg BSwanson778E Feb 27,2026-1:18pm

KEY NOTES

APPLICABLE TO THIS SHEET ONLY

1	ROOF CAP, REFER TO DETAIL 10/M-003.
2	UNIT HEATER CONCENTRIC TERMINATION, REFER TO DETAIL 1/M-004.
3	DRYER EXHAUST JACK, REFER TO DETAIL 11/M-003.
4	ROOF DUCT SUPPORT, REFER TO DETAIL 10/M-004.

ROOF PLANS

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

rrm design group

rrmdesign.com | (805) 543-1794

3765 S. Higuera, San Luis Obispo, CA 93401

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SHOULD ANY PORTION OF THIS AGREEMENT BE VOID, IT SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.

RRM DESIGN GROUP COPYRIGHT 2021
RRM IS A CALIFORNIA CORPORATION

REGISTERED PROFESSIONAL ENGINEER
JONATHAN P. STARRETT
M 34068
EXP. 6/30/26
MECHANICAL
STATE OF CALIFORNIA

CONSULTANT

3C Engineering
An EMCOR Company
(916) 940-1361
1110 Palm St, San Luis Obispo, CA, 93401

BY Mesa Energy Systems, Inc., ALL COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS RESERVE THIS DOCUMENT AS AN ORIGINAL AND UNPUBLISHED WORK PRODUCT. THIS WORK SHALL NOT BE DUPLICATED, COPIED, DISCLOSED OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH IT AS BEEN PREPARED, NOR SHALL IT BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF VISUAL CONTACT. THIS DOCUMENT SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

ROOF PLANS

NO.	REVISION	DATE
1	PLAN CHECK RESPONSE 1	12/18/25
2	PLAN CHECK RESPONSE 2	02/27/26

PROJECT MANAGER
DS

DRAWN BY
KM

CHECKED BY
BS

DATE
MAY 4, 2026

PROJECT NUMBER
2471-01-CI21

SHEET
M-300

BID DOCUMENTS

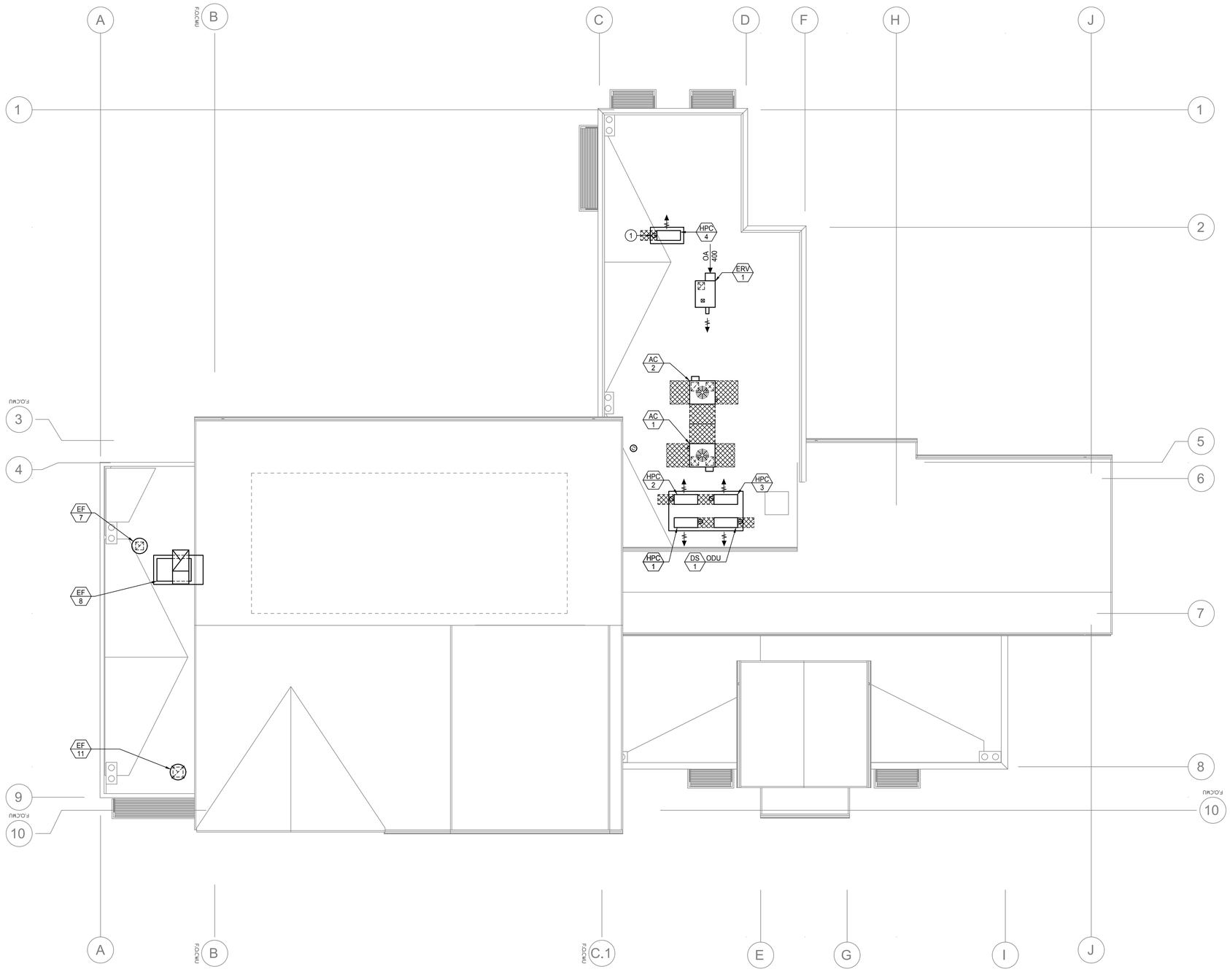
City of Madera – Community Development Department
Approved under the 2022 California Building Code and Madera Municipal Codes and Ordinances, not to be altered without approval
Date: 05/04/2026

C:\Users\bswanson778e\appdata\local\temp\AcPublish_9656\Riverstone Fire Station Mechanical Plans.dwg BSwanson778E Feb 27,2026-1:18pm

KEY NOTES

APPLICABLE TO THIS SHEET ONLY

1	REFRIGERANT PIPING THROUGH ROOF, REFER TO DETAIL 4/M-005.



PIPING ROOF PLAN

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

rrm design group

rrmdesign.com | (805) 543-1794

3765 S. Higuera, San Luis Obispo, CA 93401

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SHOULD ANY PORTION OF THIS AGREEMENT BE VOID, SAID VOID SHALL NOTBE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.

RRM DESIGN GROUP COPYRIGHT 2021
RRM IS A CALIFORNIA CORPORATION

REGISTERED PROFESSIONAL ENGINEER
JONATHAN P. STARRETT
M 34068
EXP. 6/30/26
MECHANICAL
STATE OF CALIFORNIA

CONSULTANT

3C Engineering
An EMCOR Company
(916) 940-1343
1110 Palm St, San Luis Obispo, CA, 93401

BY Mesa Energy Systems, Inc., ALL COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS RESERVE THIS DOCUMENT AS AN ORIGINAL AND UNPUBLISHED WORK PRODUCT. THIS WORK SHALL NOT BE DUPLICATED, COPIED, DISCLOSED OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH IT AS BEEN PREPARED, NOR SHALL IT BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF VISUAL CONTACT. THIS DOCUMENT SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

PIPING ROOF PLAN

NO.	REVISION	DATE
1	PLAN CHECK RESPONSE 1	12/18/25
2	PLAN CHECK RESPONSE 2	02/27/26

PROJECT MANAGER
DS

DRAWN BY KM

CHECKED BY BS

DATE
March 4, 2026

PROJECT NUMBER
2471-01-CI21

SHEET
M-310

BID DOCUMENTS

County of Madera – Community Development Division
Plans Approved Under the 2022 California Building and Fire Codes
Date 05/04/2026

C:\Users\bswanson778e\appdata\local\temp\AcPublish_9856\Riverstone Fire Station Mechanical Plans.dwg BSwanson778E Feb 27,2026-1:19pm

Project Name:	Riverstone FS	NRCC-PRF-01-E	Page 6 of 17
Project Address:	Avenue 11 and Road 40 Madera 93636	Calculation Date/Time:	08:28, Tue, Dec 16, 2025
Input File Name:	251211 Riverstone FS EP8.cibd19x		

G5. FENESTRATION ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9
Fenestration Assembly Name / Tag or I.D.	**Fenestration Type / Product Type / Frame Type**	**Certification Method[1]**	**Assembly Method**	**Area ft²**	**Overall U-factor**	**Overall SHGC**	**Overall VT**	**Status[2]**
Madera 58 - Fixed Window	VerticalFenestration FixedWindow N/A	NFRC Rated	Manufactured	510	0.50	0.40	0.50	N
Madera 58 - Glazed Door	VerticalFenestration GlazedDoor N/A	NFRC Rated	Manufactured	149	0.50	0.40	0.50	N
Madera 58 - Storefront	VerticalFenestration CurtainWall N/A	NFRC Rated	Manufactured	169	0.50	0.40	0.46	N
Madera 58 - Operable Window	VerticalFenestration OperableWindow N/A	NFRC Rated	Manufactured	197	0.50	0.40	0.50	N
Madera 58 - App Bay Door	VerticalFenestration GlazedDoor N/A	NFRC Rated	Manufactured	1305	1.25	0.80	0.53	N

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

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

1	2	3	4	5	6	7	8	9	10	11	12
			Heating				Cooling				
Equipment Name	**Equipment Type**	**Qty**	**Total Heating Output (kBtu/h)**	**Supp Heat Output (kBtuh)**	**Efficiency Unit**	**Efficiency**	**Total Cooling Output (kBtu/h)**	**Efficiency Unit**	**Efficiency**	**Economizer Type (if present)**	**Status[1]**
AC-1	SZAC (Packaged1Phase)	1	49	0	AFUE	81.0	33	SEER/EER	14.000/12.200	NoEconomizer	N
AC-2	SZAC (Packaged3Phase)	1	74	0	AFUE	81.0	44	SEER/EER	14.00/12.20	NoEconomizer	N
HPC-3/FC-3	SZHP (Split1Phase)	1	28	0	HSPF	10.900	23	SEER/EER	17.300/12.700	NoEconomizer	N

Project Name:	Riverstone FS	NRCC-PRF-01-E	Page 3 of 17
Project Address:	Avenue 11 and Road 40 Madera 93636	Calculation Date/Time:	08:28, Tue, Dec 16, 2025
Input File Name:	251211 Riverstone FS EP8.cibd19x		

C3. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	--	8.7	-8.7	1,073.4	892.5	180.9
Space Cooling	57.4	55.0	2.4	--	--	--
Indoor Fans	64.1	26.4	37.7	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	2.5	--	2.5	15.9	11.8	4.1
Indoor Lighting	10.7	10.7	0.0	--	--	-->
Compliance Total	**134.7**	**100.8**	**33.9**	**1,089.3**	**904.3**	**185.0**
Receptacle	23.6	23.6	0.0	7.2	7.2	0.0
Process	--	--	--	--	--	--
Other Ltg	0.2	0.2	0.0	--	--	--
Process Motors	202.4	203.1	-0.7	--	--	--
TOTAL	**360.9**	**327.7**	**33.2**	**1,096.5**	**911.5**	**185.0**

D. EXCEPTIONAL CONDITIONS

This project includes partial performance compliance scope options. The building must show compliance with all other applicable compliance scope options (performance or prescriptively) before occupying.

This project uses the Simplified Geometry Performance Modeling Approach which is not capable of modelling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.

The user model includes space(s) that are designed to be served by mechanical cooling systems, but the cooling systems were not included in the simulation model. A cooling system has been modeled for both the proposed and standard cases.

E. HERS VERIFICATION

This Section Does Not Apply

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2025-12-16 08:29:36

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	BEN SWANSON	805.574.5968	BSWANSON@EMCOR.NET
PLUMBING DESIGNER	ELI FERMAN	805.634.8818	EFERMAN@EMCOR.NET
ENERGY COMPLIANCE	JORGE BRAVO	805.595.0894	JBRAVOANGELES@EMCOR.NET

SHEET INDEX

SHEEET NUMBER	SHEET TITLE
T-240	ENERGY COMPLIANCE DOCUMENTATION
T-241	ENERGY COMPLIANCE DOCUMENTATION

Project Name:	Riverstone FS	NRCC-PRF-01-E	Page 7 of 17
Project Address:	Avenue 11 and Road 40 Madera 93636	Calculation Date/Time:	08:28, Tue, Dec 16, 2025
Input File Name:	251211 Riverstone FS EP8.cibd19x		

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

1	2	3	4	5	6	7	8	9	10	11	12
			Heating				Cooling				
Equipment Name	**Equipment Type**	**Qty**	**Total Heating Output (kBtu/h)**	**Supp Heat Output (kBtuh)**	**Efficiency Unit**	**Efficiency**	**Total Cooling Output (kBtu/h)**	**Efficiency Unit**	**Efficiency**	**Economizer Type (if present)**	**Status[1]**
HPC/FC-4	SZHP (Split1Phase)	1	35	0	HSPF	10.400	29	SEER/EER	17.300/12.400	NoEconomizer	N
DS-1	MiniSplitHP (Split1Phase)	1	21	0	HSPF	8.900	17	SEER/EER	18.700 / 13.300	NA	N
ECH-1	MiniSplitAC (Split1Phase)	1	4	0	NA	Elec. Res.	0	SEER/EER	14.000 / 12.200	NA	N
ECH-2	MiniSplitAC (Split1Phase)	1	4	0	NA	Elec. Res.	0	SEER/EER	14.000 / 12.200	NA	N
UH-1 / UH-2 (App Bay)	Furnace (Other)	2	145	0	AFUE	83.0	0	NA	NA	NA	N
UH-3 (Turnout)	Furnace (Other)	1	87	0	AFUE	83.0	0	NA	NA	NA	N
UH-4	MiniSplitAC (Split1Phase)	1	7	0	NA	Elec. Res.	0	SEER/EER	14.000 / 12.200	NA	N
HPC-1	VRF	1	24	NA	COP	9.60	24	EER	12.30	NA	N
HPC-2	VRF	1	24	NA	COP	9.60	24	EER	12.30	NA	N

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

H2. FAN SYSTEMS SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12	13	14
		Design OA	Supply Fan					Return Fan					
Name or Item Tag	**Qty**	**CFM**	**CFM**	**Modeling Method**	**Power**	**Power Units**	**Control**	**CFM**	**Modeling Method**	**Power**	**Power Units**	**Control**	**Status[1]**
AC-1	1	80	1125	BrakeHorsePower	0.430	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
AC-2	1	256	1650	BrakeHorsePower	0.720	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HPC-3/FC-3	1	56	740	BrakeHorsePower	0.401	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HPC/FC-4	1	0	935	BrakeHorsePower	0.401	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
6-FC-1.1 (Misc - All Others-VRF	1	0	281	BrakeHorsePower	0.103	bhp	ConstantVolume	NA	NA	NA	NA	NA	N

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2025-12-16 08:29:36

Project Name:	Riverstone FS	NRCC-PRF-01-E	Page 4 of 17
Project Address:	Avenue 11 and Road 40 Madera 93636	Calculation Date/Time:	08:28, Tue, Dec 16, 2025
Input File Name:	251211 Riverstone FS EP8.cibd19x		

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

1	2	3	4
Opaque Surfaces & Orientation	**Total Gross Surface Area (ft²)**	**Total Fenestration Area (ft²)**	**Window to Wall Ratio (%)**
North-Facing[1]	2,350 ft²	271 ft²	11.5%
East-Facing[2]	2,859 ft²	952 ft²	33.3%
South-Facing[3]	1,926 ft²	158 ft²	08.2%
West-Facing[4]	2,280 ft²	931 ft²	40.8%
Total	**9,415 ft²**	**2,311 ft²**	**24.5%**
Roof	8,364 ft²	0 ft²	00.0%

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

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9	10
Surface Name	**Surface Type**	**Area (ft²)**	**Framing Type**	**Cavity R-Value**	**Continuous R-Value**	**Units**	**Value**	**Description of Assembly Layers**	**Status[1]**
R-21 Wall - Stone8	ExteriorWall	6007	Wood	21	NA	U-Factor	0.066	Stone - 1 in. Plywood - 1/2 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 5.5in., R-21 Gypsum Board - 1/2 in.	N
R-30 Roof MSS12	Roof	6852	Wood	30	NA	U-Factor	0.034	Metal Standing Seam - 1/16 in. Built-up roofing - 3/8 in. Plywood - 1/2 in. Vapor permeable felt - 1/8 in. Wood framed roof, 16in. OC, 11.25in., R-30 Air - Ceiling - 3/4 in. Gypsum Board - 1/2 in.	N

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2025-12-16 08:29:36

Project Name:	Riverstone FS	NRCC-PRF-01-E	Page 1 of 17
Project Address:	Avenue 11 and Road 40 Madera 93636	Calculation Date/Time:	08:28, Tue, Dec 16, 2025
Input File Name:	251211 Riverstone FS EP8.cibd19x		

A. GENERAL INFORMATION

1	Project Location (city)	Madera	**8**	Standards Version	Compliance2019
2	CA Zip Code	93636	**9**	Compliance Software (version)	EnergyPro 8.3
3	Climate Zone	13	**10**	Weather File	FRESNO_723890_CZ2010.epw
4	Total Conditioned Floor Area in Scope	8,365 ft²	**11**	Building Orientation (deg)	(N) 0 deg
5	Total Unconditioned Floor Area	512 ft²	**12**	Permitted Scope of Work	NewEnvelopeAndMechanical
6	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. PROJECT SUMMARY

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

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

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2025-12-16 08:29:36

Project Name:	Riverstone FS	NRCC-PRF-01-E	Page 8 of 17
Project Address:	Avenue 11 and Road 40 Madera 93636	Calculation Date/Time:	08:28, Tue, Dec 16, 2025
Input File Name:	251211 Riverstone FS EP8.cibd19x		

H2. FAN SYSTEMS SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12	13	14
		Design OA	Supply Fan					Return Fan					
Name or Item Tag	**Qty**	**CFM**	**CFM**	**Modeling Method**	**Power**	**Power Units**	**Control**	**CFM**	**Modeling Method**	**Power**	**Power Units**	**Control**	**Status[1]**
7-FC-1.2 (Misc - All Others-VRF	1	0	281	BrakeHorsePower	0.103	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
9-FC-1.3 (Misc - All Others-VRF	1	0	281	BrakeHorsePower	0.103	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
10-FC-2.1 (Misc - All Others-VRF	1	0	281	BrakeHorsePower	0.103	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
12-FC-2.2 (Misc - All Others-VRF	1	0	281	BrakeHorsePower	0.103	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
13-FC-2.3 (Misc - All Others-VRF	1	0	281	BrakeHorsePower	0.103	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
DS-1	1	0	512	BrakeHorsePower	0.049	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
ECH-1	1	0	20	BrakeHorsePower	0.011	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
ECH-2	1	0	20	BrakeHorsePower	0.011	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
UH-1 / UH-2 (App Bay)	2	0	2242	BrakeHorsePower	0.250	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
UH-3 (Turnout)	1	0	1345	BrakeHorsePower	0.250	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
UH-4	1	0	310	BrakeHorsePower	0.089	bhp	ConstantVolume	NA	NA	NA	NA	NA	N

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

H3. EXHAUST FAN SUMMARY

1	2	3	4	5	6	7	8
System ID	**Zone Name**	**Qty**	**CFM**	**Motor BHP**	**Power Per Flow (W/cfm)**	**Total Static Pressure (in. H_2O)**	**Status[1]**
Restrooms32	2-Restrooms	1	100	0.015	0.130	0.61	N
Unoccupied36	3-Unoccupied	1	150	23.000	122.142	632.44	N
Misc - All Others40	4-Misc - All Others	1	200	0.290	1.264	5.98	N
FC-1.1 (Misc - All Others80	5-FC-1.1 (Misc - All Others	1	50	0.072	1.259	5.96	N

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2025-12-16 08:29:36

Project Name:	Riverstone FS	NRCC-PRF-01-E	Page 5 of 17
Project Address:	Avenue 11 and Road 40 Madera 93636	Calculation Date/Time:	08:28, Tue, Dec 16, 2025
Input File Name:	251211 Riverstone FS EP8.cibd19x		

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9	10
Surface Name	**Surface Type**	**Area (ft²)**	**Framing Type**	**Cavity R-Value**	**Continuous R-Value**	**Units**	**Value**	**Description of Assembly Layers**	**Status[1]**
Slab On Grade14	UndergroundFloor	8876	NA	0	NA	F-Factor	0.73	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0	N
R-30 Roof SP47	Roof	2024	Wood	30	NA	U-Factor	0.034	Single Ply Roofing - 1/4 in. Built-up roofing - 3/8 in. Plywood - 1/2 in. Vapor permeable felt - 1/8 in. Wood framed roof, 16in. OC, 11.25in., R-30 Air - Ceiling - 3/4 in. Gypsum Board - 1/2 in.	N
12 CMU179	ExteriorWall	2379	Wood	0	NA	U-Factor	0.265	Stone - 1 in. Plywood - 1/2 in. Concrete - 100 lb/ft3 - 12 in. Wood framed wall, 16in. OC, 1.5in., R-0	N
8 CMU188	ExteriorWall	1537	Wood	0	NA	U-Factor	0.321	Stone - 1 in. Plywood - 1/2 in. Wood framed wall, 16in. OC, 5.5in., R-0 Concrete - 100 lb/ft3 - 8 in.	N

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

G4. OPAQUE DOOR SUMMARY

1	2	3
Assembly Name	**Overall U-factor**	**Status[1]**
Metal Fire Rated134	0.500	N

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2025-12-16 08:29:36

Project Name:	Riverstone FS	NRCC-PRF-01-E	Page 2 of 17
Project Address:	Avenue 11 and Road 40 Madera 93636	Calculation Date/Time:	08:28, Tue, Dec 16, 2025
Input File Name:	251211 Riverstone FS EP8.cibd19x		

C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft²-yr)

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	253.69	240.21	13.48
Space Cooling	333.98	321.15	12.83
Indoor Fans	250.77	90.33	160.44
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	11.83	2.54	9.29
Indoor Lighting	34.89	34.89	--
ENERGY STANDARDS COMPLIANCE TOTAL	**885.16**	**689.12**	**196.04 (22.1%)**

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

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

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

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	78.43	78.43	--
Process	--	--	--
Other Ltg	0.80	0.80	--
Process Motors	688.36	690.89	-2.53
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**1,652.75**	**1,459.24**	**193.5 (11.7%)**

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

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-12092021-6844 Report Generated at: 2025-12-16 08:29:36

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. ANY UNAUTHORIZED USE OR ACCEPTANCE HEREIN SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS
RRM DESIGN GROUP COPYRIGHT 2021
RRM IS A CALIFORNIA CORPORATION

REGISTERED PROFESSIONAL ENGINEER
BRIAN P. STARRETT
M 34068
EXP. 6/30/26
MECHANICAL
STATE OF CALIFORNIA

CONSULTANT

3C Engineering
An EMCOR Company
(855) 540-3363
1559 Palm St, San Luis Obispo, CA, 93401

BY Mesa Energy Systems, Inc., ALL COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS RESERVE THIS DOCUMENT AS AN ORIGINAL AND UNPUBLISHED WORK PRODUCT. THIS WORK SHALL NOT BE DUPLICATED, COPIED, DISCLOSED OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH IT AS BEEN PREPARED, NOR SHALL IT BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF VISUAL CONTACT. THIS DOCUMENT SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40
ENERGY COMPLIANCE DOCUMENTATION

NO.	REVISION	DATE
1	PLAN CHECK RESPONSE 1	12/18/25
2	PLAN CHECK RESPONSE 2	02/27/26

PROJECT MANAGER
DS
DRAWN BY KM
CHECKED BY BS
DATE May 4, 2026
PROJECT NUMBER 247.1-01-CI21
SHEET T-240

Approved under the 2022 California Building Code
City of Madera – Community Development
Approved for Code Compliance
Date 05/04/2026
Approved subject to Codes and Ordinances, not valid without signature

BID DOCUMENTS

C:\Users\jbravoangeles778\appdata\local\temp\AcPublish_53636\Riverstone Fire Station T24.dwg, JBravoAngeles778E Feb 27,2026 - 1:44pm

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Mechanical	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
	NRCA-MCH-03-A Constant Volume Single Zone HVAC
	NRCA-MCH-11-A Automatic Demand Shed Controls
	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Jorge Bravo	Signature:
Company: EMCOR Services Mesa Energy Systems	
Address: 1500 Palm St	Signature Date: 2025-12-16
City/State/Zip: San Luis Obispo, CA 93401	CEA/ HERS Certification Identification (if applicable):
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 will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Envelope Designer Name: Michael Scott	Signature:	
Company: RRM Design Group	Date Signed:	
Address: 3765 S. Higuera St., Suite 102		
City/State/Zip: San Luis Obispo CA 93401		
Phone: (805) 543-1794	Title:	License #: C31544
Responsible Lighting Designer Name:	Signature: NOT IN SCOPE	
Company:	Date Signed:	
Address:		
City/State/Zip:		
Phone:	Title:	License #:
Responsible Mechanical Designer Name: Brkan Starrett	Signature:	
Company: 3C Engineering, Inc.	Date Signed: 2025-12-16	
Address: 1500 Palm St.		
City/State/Zip: San Luis Obispo CA 93401		

Phone: 805-540-3363	Title:	License #: M34068

H9. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12	13
System ID	Zone Name	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
				Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	VSD
6-FC-1.1 (Misc - All Others-VRF	5-FC-1.1 (Misc - All Others	VRF	1	9.00	7.00	281	NA	NA	0.103	bhp	☐	☐
7-FC-1.2 (Misc - All Others-VRF	6-FC-1.2 (Misc - All Others	VRF	1	9.00	7.00	281	NA	NA	0.103	bhp	☐	☐
9-FC-1.3 (Misc - All Others-VRF	8-FC-1.3 (Misc - All Others	VRF	1	9.00	7.00	281	NA	NA	0.103	bhp	☐	☐
10-FC-2.1 (Misc - All Others-VRF	9-FC-2.1 (Misc - All Others	VRF	1	9.00	7.00	281	NA	NA	0.103	bhp	☐	☐
12-FC-2.2 (Misc - All Others-VRF	11-FC-2.2 (Misc - All Others	VRF	1	9.00	7.00	281	NA	NA	0.103	bhp	☐	☐
13-FC-2.3 (Misc - All Others-VRF	12-FC-2.3 (Misc - All Others	VRF	1	9.00	7.00	281	NA	NA	0.103	bhp	☐	☐
DS-1	17-Elec/Mech	MiniSplitHP	1	21.00	17.00	512	NA	NA	0.049	bhp	☒	☐
ECH-1	18-Misc - All Others 2	MiniSplitAC	1	4.00	NA	20	NA	NA	0.011	bhp	☒	☐
ECH-2	19-Restrooms	MiniSplitAC	1	4.00	NA	20	NA	NA	0.011	bhp	☒	☐
UH-1 / UH-2 (App Bay)	20-Misc - Auto Repair	Furnace	2	145.00	NA	2242	NA	NA	0.250	bhp	☒	☐
UH-3 (Turnout)	22-Laundry Area	Furnace	1	87.00	NA	1345	NA	NA	0.250	bhp	☒	☐
UH-4	23-Misc - All Others 3	MiniSplitAC	1	7.00	NA	310	NA	NA	0.089	bhp	☒	☐
1-Office < 250-Trm	1-Office < 250	Uncontrolled	1	NA	NA	1125	NA	0.00	0.430	bhp	NA	☐
4-Misc - All Others-Trm	4-Misc - All Others	Uncontrolled	1	NA	NA	1650	NA	0.00	0.720	bhp	NA	☐
14-Office <250-Trm	14-Office <250	Uncontrolled	1	NA	NA	740	NA	0.00	0.401	bhp	NA	☐
16-Exercise/Fitness-Trm	16-Exercise/Fitness	Uncontrolled	1	NA	NA	935	NA	0.00	0.401	bhp	NA	☐

H10. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

H11. HEAT RECOVERY SUMMARY

This Section Does Not Apply

I1. WATER HEATER EQUIPMENT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Name	Heater Element Type	Tank Type	Qty	Tank Vol (gal)	Rated Input	Rated Input Unit	Efficiency	Efficiency Unit	Tank Insulation R-value (Int/Ext)	Standby Loss Fraction	1st Hour Rating or Flow Rate (gal)	Heat Pump Type	Tank Location or Ambient Condition
BTH-1502	Gas	Storage	1	100.00	150	kBtu/h	0.96	Thrml. Eff.	NA	0.006	80	NA	NA

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Plumbing	NRCI-PLB-01-E - Must be submitted for all buildings

H3. EXHAUST FAN SUMMARY

1	2	3	4	5	6	7	8
System ID	Zone Name	Qty	CFM	Motor BHP	Power Per Flow (W/cfm)	Total Static Pressure (in. H_2O)	Status*
FC-1.2 (Misc - All Others86	6-FC-1.2 (Misc - All Others	1	50	0.072	1.259	5.96	N
FC-1.2 (Restroom)91	7-FC-1.2 (Restroom)	1	100	0.146	1.269	6.00	N
FC-1.3 (Misc - All Others96	8-FC-1.3 (Misc - All Others	1	50	0.072	1.259	5.96	N
FC-2.1 (Misc - All Others101	9-FC-2.1 (Misc - All Others	1	50	0.072	1.259	5.96	N
FC-2.1 (Restroom)106	10-FC-2.1 (Restroom)	1	100	0.146	1.269	6.00	N
FC-2.2 (Misc - All Others111	11-FC-2.2 (Misc - All Others	1	50	0.072	1.259	5.96	N
FC-2.3 (Misc - All Others116	12-FC-2.3 (Misc - All Others	1	50	0.072	1.259	5.96	N
FC-2.3 (Restroom)121	13-FC-2.3 (Restroom)	1	100	0.015	0.130	0.61	N
Restrooms139	15-Restrooms	1	100	0.015	0.130	0.61	N
Exercise/Fitness143	16-Exercise/Fitness	1	100	0.146	1.269	6.00	N
Misc - All Others 2164	18-Misc - All Others 2	1	98	0.019	0.173	0.82	N
Restrooms169	19-Restrooms	1	100	0.015	0.130	0.61	N
Misc - Auto Repair173	20-Misc - Auto Repair	1	8,000	1.140	0.123	0.59	N
Unoccupied203	21-Unoccupied	1	150	23.000	122.142	632.44	N
Laundry Area218	22-Laundry Area	1	1,400	0.250	0.156	0.74	N
Misc - All Others 3226	23-Misc - All Others 3	1	150	0.026	0.153	0.72	N

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

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

This Section Does Not Apply

H5. PUMPS

This Section Does Not Apply

H6. SYSTEM SPECIAL FEATURES

1	2	3	4
System Name	Equipment Type	Window Interlocks per §140.4(n)	Other Special Features and Controls
AC-2	SZAC	No	NA
HPC-3/FC-3	SZHP	No	NA
DS-1	MiniSplitHP	NA	NA
ECH-1	MiniSplitAC	No	NA
ECH-2	MiniSplitAC	NA	NA
UH-1 / UH-2 (App Bay)	Furnace	NA	NA
UH-3 (Turnout)	Furnace	No	NA
UH-4	MiniSplitAC	No	NA
PropNoClg-NonResZnSys	SZAC	NA	NA
PropNoClg-NonResZnSys-2	SZAC	NA	NA
PropNoClg-NonResZnSys-3	SZAC	NA	NA
PropNoClg-NonResZnSys-4	SZAC	NA	NA
PropNoClg-NonResZnSys-5	SZAC	NA	NA
HPC-1	VRF	No	NA
HPC-2	VRF	No	NA
WH-11 - SHW	Service Hot Water, Primary Only	NA	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.

H7. NONRESIDENTIAL VENTILATION

1	2	3	4	5	6	7
Zone Name	Mechanical Ventilation					
	Ventilation Function	# of people	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
1-Office < 250	Office - Office space Office - Reception areas Misc - All others	9.56	80	0	534	NA
4-Misc - All Others	Misc - All others General - Corridors	8.54	256	200	1709	NA
5-FC-1.1 (Misc - All Others	Misc - All others	0.65	20	50	130	NA

H7. NONRESIDENTIAL VENTILATION

1	2	3	4	5	6	7
Zone Name	Mechanical Ventilation					
	Ventilation Function	# of people	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	DCV or Occupant Sensor Controls, or Both
6-FC-1.2 (Misc - All Others	Misc - All others	0.64	19	50	128	NA
7-FC-1.2 (Restroom)	Exhaust - Toilets, private	0.55	0	100	109	NA
8-FC-1.3 (Misc - All Others	Misc - All others	0.77	23	50	153	NA
9-FC-2.1 (Misc - All Others	Misc - All others	0.64	19	50	128	NA
10-FC-2.1 (Restroom)	Exhaust - Toilets, private	0.55	0	100	109	NA
11-FC-2.2 (Misc - All Others	Misc - All others	0.64	19	50	128	NA
12-FC-2.3 (Misc - All Others	Misc - All others	0.77	23	50	153	NA
13-FC-2.3 (Restroom)	Exhaust - Toilets, private	0.58	0	100	116	NA
14-Office <250	Office - Office space	1.88	56	0	375	NA
16-Exercise/Fitness	Sports/Entertainment - Health club/weight rooms	4.15	62	100	415	NA
17-Elec/Mech	NA	0.00	0	0	82	NA
18-Misc - All Others 2	Misc - All others	0.68	83	98	135	NA
19-Restrooms	Exhaust - Toilets, private	0.36	0	100	73	NA
20-Misc - Auto Repair	Exhaust - Auto repair rooms	16.50	7939	8000	3301	NA
22-Laundry Area	Exhaust - Soiled laundry storage rooms	2.38	1121	1400	475	NA
23-Misc - All Others 3	Misc - All others	0.56	119	150	112	NA

H8. HIGH-RISE RESIDENTIAL DWELLING UNIT AND HOTEL/MOTEL VENTILATION

This Section Does Not Apply

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. ANY UNAUTHORIZED USE OR ACCEPTANCE BY ANY AGENCY HEREIN SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS

RRM DESIGN GROUP COPYRIGHT 2021
RRM IS A CALIFORNIA CORPORATION

REGISTERED PROFESSIONAL ENGINEER — BRIAN P. STARRETT — M 34068 — EXP. 6/30/26 — MECHANICAL — STATE OF CALIFORNIA

CONSULTANT

3C Engineering
An EMCOR Company
(855) 540-3363
1500 Palm St, San Luis Obispo, CA, 93401

BY Mesa Energy Systems, Inc., ALL COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS RESERVE THIS DOCUMENT AS AN ORIGINAL AND UNPUBLISHED WORK PRODUCT. THIS WORK SHALL NOT BE DUPLICATED, COPIED, DISCLOSED OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH IT AS BEEN PREPARED, NOR SHALL IT BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF VISUAL CONTACT. THIS DOCUMENT SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

ENERGY COMPLIANCE DOCUMENTATION

BID DOCUMENTS

NO.	REVISION	DATE
1	PLAN CHECK RESPONSE 1	12/18/25
2	PLAN CHECK RESPONSE 2	02/27/26

PROJECT MANAGER: DS
DRAWN BY: KM
CHECKED BY: BS
DATE: MAY 4, 2026
PROJECT NUMBER: 2471-01-CI2
SHEET: T-241

City of Madera – Approved for Code Compliance
Fire Station Building
Building and Safety Division
Reviewed for 2022 California Building Codes and Ordinances, not to be altered without signature
Date: 05/04/2026

C:\Users\jbravo\angeles778\e\appdata\local\temp\AcPublish_53636\Riverstone Fire Station T24.dwg, JBrjravoAngeles778E Feb 27 2026 - 1:44pm

WATER PIPE SIZING CRITERIA CALCULATION

ELEMENT	PRESSURE (PSI)	PRESSURE (FT H2O)
STATIC PRESSURE IN MAIN	90.0	207.6
LOSS THROUGH METER	3.0	6.9
LOSS THROUGH BACKFLOW PREVENTER	12.0	27.7
PRESSURE LOSS THROUGH PRV	0.0	0.0
OTHER DOWNSTREAM PRESSURE LOSSES	0.0	0.0
PRESSURE LOSS THROUGH ELEVATION HEAD (@0.434 PSI PER FOOT H2O) (IF LOSS IS NEGATIVE, THIS INDICATES FINAL FIXTURE IS LOWER THAN THE MAIN LINE AND THERE IS A GAIN IN PRESSURE)	4.3	10.0
PRESSURE REQUIRED AT FINAL FIXTURE	25.0	57.7
REMAINING PRESSURE FOR FRICTION LOSSES	45.7	105.3
NOMINAL DISTANCE BETWEEN MAIN AND FINAL FIXTURE (FT)	150.0	
TOTAL DEVELOPED LENGTH BETWEEN MAIN AND FINAL FIXTURE (FT) (ACCOUNTING FOR MINOR LOSSES WITH NOMINAL DISTANCE X 1.4)	210.0	
PRESSURE SIZING CRITERIA (PSI LOSS / 100'-0" OF PIPING)	8.0	
PRESSURE SIZING CRITERIA (FT H2O LOSS / 100'-0" OF PIPING)	18.4	
CW VELOCITY SIZING CRITERIA (FT/S)	8.0	
HW VELOCITY SIZING CRITERIA (FT/S)	5.0	
ASSUMED GPM FROM FIXTURE UNIT COUNT	36.6	

DOMESTIC WATER PIPING IS SIZED BASED ON PRESSURE LOSS IN PSI PER 100 FEET OF PIPING. IF THE ALLOWABLE PRESSURE LOSS STATED ABOVE IS GREATER THAN 8 PSI PER 100 FEET OF PIPE, SIZING SHALL BE BASED ON A PRESSURE LOSS OF 8 PSI PER 100 FEET OF PIPE WITH A MAXIMUM VELOCITY OF 8 FEET PER SECOND FOR COLD WATER AND 5 FEET PER SECOND FOR HOT WATER.

WATER & SEWER SIZING TABLE

PIPING SIZED PER 2019 CPC

DOMESTIC WATER SERVICE

TOTAL WATER SUPPLY FIXTURE UNITS			FT/FV	GPM	PIPE SIZE (INCHES)	METER SIZE (INCHES)	INCOMING PSI	REGULATED PSI	PSI/100'
72			FLUSH TANK	36.6	2.5	1-1/2	90	Not Regulated	8
MAXIMUM FIXTURE UNITS ALLOWED	PIPE SIZE (INCHES)	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3
	FLUSH VALVES (8 FPS MAX.)	0	0	0	12	35	132	329	666
	FLUSH TANK (8 FPS MAX.)	3	10	23	51	103	254	455	719
	HOT WATER (5 FPS MAX.)	3	8	16	28	46	119	245	406

SEWER LINE

TOTAL DRAINAGE FIXTURE UNITS	PIPE SIZE REQUIRED (INCHES)	PIPE SIZE PROVIDED (INCHES)	BUILDING DRAIN SLOPE	BUILDING SEWER SLOPE
73	4	4	2%	SEE CIVIL

PLUMBING ABBREVIATIONS

ABV	ABOVE	HD	HEAD
ADA	AMERICANS WITH DISABILITIES ACT	HP	HORSE POWER
AFF	ABOVE FINISHED FLOOR	HZ	HERTZ
AG	ABOVE GRADE	IE	INVERT ELEVATION
AHJ	AUTHORITY HAVING JURISDICTION	IWC	INCHES OF WATER COLUMN
ALUM	ALUMINUM	KW	KILOWATTS
AMB	AMBIENT	LAV	LAVATORY
AMP	AMPERAGE	LBS	POUNDS
ARCH	ARCHITECT, ARCHITECTURAL	LWT	LEAVING WATER TEMPERATURE
BEL	BELOW	MAX	MAXIMUM
BF	BELOW FLOOR	MBH	1000 BRITISH THERMAL UNITS PER HOUR
BG	BELOW GRADE	MCA	MINIMUM CIRCUIT AMPS
BFP	BACKFLOW PREVENTOR	MECH	MECHANICAL
BLDG	BUILDING	MFGR	MANUFACTURE OR MANUFACTURER
BOD	BASIS OF DESIGN	MIN	MINIMUM
BTUH	BRITISH THERMAL UNIT PER HOUR	MU	MAKE-UP
CA	COMBUSTION AIR	(N)	NEW
CD	CONDENSATE DRAIN	NOM	NOMINAL
CFH	CUBIC FEET PER HOUR	NPS	NOMINAL PIPE SIZE
CONN	CONNECTION	NTS	NOT TO SCALE
CONT	CONTINUATION	OPT	OPERATING
CI	CAST IRON	OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
CP	CHROME PLATED	PD	PRESSURE DROP
DFU	DRAINAGE FIXTURE UNITS	PH	PHASE
DN	DOWN	PSI	POUNDS PER SQUARE INCH
DSA	DIVISION OF THE STATE ARCHITECT	PW	PROCESS WASTE
(E)	EXISTING	RM	ROOM
EC	EVAPORATIVE COOLER	RPM	REVOLUTIONS PER MINUTE
EFF	EFFICIENCY	SDL	STORM DRAIN LEADER
ELEC	ELECTRICAL	SDO	STORM DRAIN OVERFLOW
EQPT	EQUIPMENT	SHT	SHEET
EWT	ENTERING WATER TEMPERATURE	SOV	SHUT OFF VALVE
FA	FROM ABOVE	SS	STAINLESS STEEL
FC	FLEXIBLE CONNECTION	TEMP	TEMPORARY, TEMPERATURE
FLA	FULL LOAD AMPS	TYP	TYPICAL
FLR	FLOOR	UON	UNLESS OTHERWISE NOTED
FPS	FEET PER SECOND	UTR	UP TO OR UP THROUGH ROOF
FR	FROM	V	VENT
FT	FLUSH TANK	VAC	VACUUM
FV	FLUSH VALVE	VTR	VENT THROUGH ROOF
GA	GAGE OR GAUGE	WC	WATER CLOSET
GALV	GALVANIZED	W	WASTE
GPC	GALLONS PER CYCLE	W/	WITH
GPF	GALLONS PER FLUSH	W/O	WITHOUT
GPM	GALLONS PER MINUTE	WSFU	WATER SUPPLY FIXTURE UNIT
GYP	GYPSUM	WT	WEIGHT EXPRESSED IN POUNDS
GW	GREASE WASTE		

PLUMBING LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
		BALL VALVE
	BFV	BUTTERFLY VALVE
		CAP
		CHECKVALVE
	CP	CIRCULATION PUMP
	COTG	CLEAN OUT THROUGH GRADE
	DIA	DIAMETER
	FCO	FLOOR CLEAN OUT
GM	GM	GAS METER
		GAS VALVE
		GATE VALVE
		GLOBE VALVE
	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
G		PIPE DOWN
G		PIPE UP
G		PIPE TEE DOWN
		PLUG VALVE ELEVATION VIEW
	PV	PLUG VALVE PLAN VIEW
	SV	SOLENOID VALVE
WCO	WCO	WALL CLEANOUT
	WHA	WATER HAMMER ARRESTOR
A	A	COMPRESSED AIR
CW	CW	COLD WATER
CD	CD	CONDENSATE DRAIN
G	G	GAS (NATURAL OR PROPANE)
HW	HW	HOT WATER
HWR	HWR	HOT WATER RETURN
V	V	SANITARY VENT
SDL	SDL	STORM DRAIN LEADER
SDO	SDO	STORM DRAIN OVERFLOW
TP TP	TP	TRAP PRIMER
S/W	S/W	WASTE (ABOVE GRADE)
S/W	S/W	WASTE (BELOW GRADE)

PLUMBING GENERAL NOTES

1. COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING CODES:

   2019 CALIFORNIA ADMINISTRATIVE CODE (CAC): PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
   2019 CALIFORNIA BUILDING CODE (CBC): PART 2, TITLE 24 CCR
   2019 CALIFORNIA ELECTRICAL CODE (CEC): PART 3, TITLE 24 CCR
   2019 CALIFORNIA MECHANICAL CODE (CMC): PART 4, TITLE 24 CCR
   2019 CALIFORNIA PLUMBING CODE (CPC): PART 5, TITLE 24 CCR
   2019 CALIFORNIA ENERGY CODE (CENC): PART 6, TITLE 24 CCR
   2019 CALIFORNIA FIRE CODE (CFC): PART 9, TITLE 24 CCR
   2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN): PART 11, TITLE 24 CCR

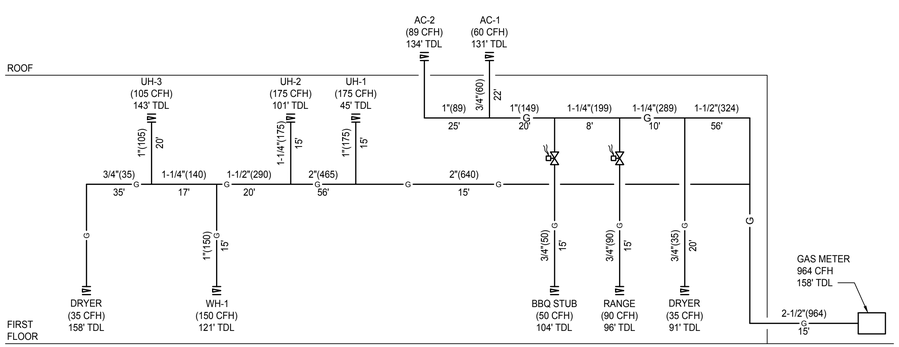
   REPORT DEFICIENCIES WITHIN THIRTY (30) DAYS UPON AUTHORIZATION TO PROCEED.
2. NO PLUMBING SHALL BE INSTALLED UNTIL ALL REQUIRED PLUMBING PLAN CHECK PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM ALL REQUIRED AGENCIES.
3. LAVATORY FAUCETS, SINK FAUCETS (NOT INCLUDING SERVICE SINK FAUCETS OR FAUCETS DESIGNATED 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 AND 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 SURFACES, 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 2019 CPC 609.9. 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 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 MAXIMUM.
3. TOILETS: 1.28 GPF MAXIMUM.
4. SHOWERHEADS SHALL NOT EXCEED 1.5 GPM.

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.



NOTES:
1. CONNECT TO INDIVIDUAL UNITS PER MANUFACTURER SIZING RECOMMENDATIONS.
2. EACH CONNECTION TO EQUIPMENT SHALL BE PROVIDED WITH A MINIMUM 6" SEDIMENT TRAP LOCATED IMMEDIATELY AFTER THE SHUT OFF VALVE.

A GAS DIAGRAM

SCALE: NTS

LOW PRESSURE NATURAL GAS SIZING

SYSTEM	QUANTITY	CFH'S	CFH
UH-1	1	175	175
UH-2	1	175	175
WH-1	1	150	150
UH-3	1	105	105
DRYER	2	35	70
RANGE	1	90	90
BBQ STUB	1	50	50
AC-1	1	60	60
AC-2	1	89	89
TOTAL			964
FUEL TYPE			NATURAL GAS
DISTANCE FROM REGULATOR TO FURTHEST APPLIANCE (FT)			158
INLET PRESSURE (PSI)			< 2
PRESSURE DROP (IN. W.C.)			0.5
PIPE SIZE REQUIRED (INCHES)			2-1/2
PIPE SIZE PROVIDED (INCHES)			2-1/2

SIZED IN ACCORDANCE WITH 2019 CPC TABLE 1215.2(1)

SHEET INDEX

SHEET NUMBER	SHEET TITLE
P-000	GENERAL
P-001	SCHEDULES
P-002	DETAILS
P-003	DETAILS
P-004	DETAILS
P-200	FLOOR PLAN
P-201	ENLARGED FLOOR PLAN - WASTE & VENT
P-202	ENLARGED FLOOR PLAN - WATER & GAS
P-203	ENLARGED FLOOR PLANS
P-300	ROOF PLAN

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	BEN SWANSON	805.574.5968	BSWANSON@EMCOR.NET
PLUMBING DESIGNER	ELI FERMAN	805.634.8818	EFERMAN@EMCOR.NET
ENERGY COMPLIANCE	JORGE BRAVO	805.595.0894	JBRAVOANGELES@EMCOR.NET

BID DOCUMENTS

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THIS DOCUMENT FOR PLAN CHECK OR CONSTRUCTION SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2021
RRM IS A CALIFORNIA CORPORATION

REGISTERED PROFESSIONAL ENGINEER
JONATHAN P. STARRETT
M 34068
EXP. 6/30/26
MECHANICAL
STATE OF CALIFORNIA

CONSULTANT

3C Engineering
An EMCOR Company
(805) 540-1361
1510 Palm St, San Luis Obispo, CA, 93401

BY Mesa Energy Systems, Inc., ALL COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS RESERVE. THIS DOCUMENT AS AN ORIGINAL AND UNPUBLISHED WORK PRODUCT. THIS WORK SHALL NOT BE DUPLICATED, COPIED, DISCLOSED OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH IT AS BEEN PREPARED, NOR SHALL IT BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF VISUAL CONTACT. THIS DOCUMENT SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

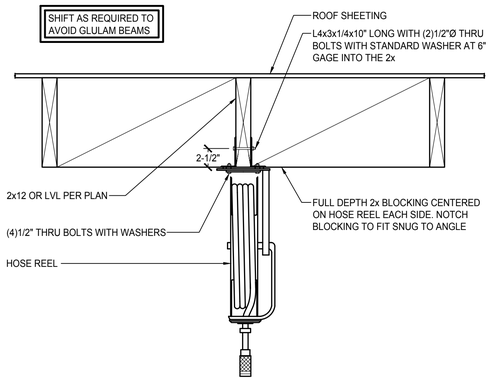
GENERAL

NO.	REVISION	DATE
1	PLAN CHECK RESPONSE 1	12/18/25
2	PLAN CHECK RESPONSE 2	02/27/26

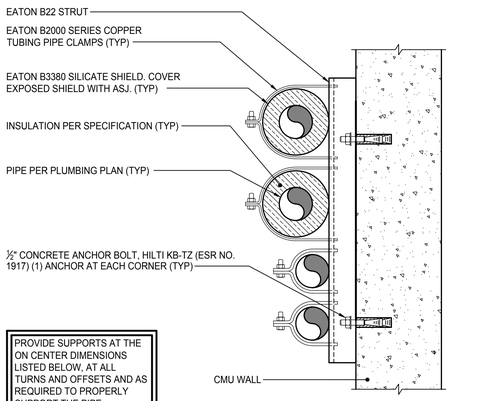
PROJECT MANAGER: DS
DRAWN BY: EF
CHECKED BY: BS
DATE: NOV 4, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: P-000

Approved Under the 2022 Fire Safe Regulations
Date: 05/04/2026
Madera – County Building Department
Subject to any conditions imposed by Ordinances, not to be removed without signature

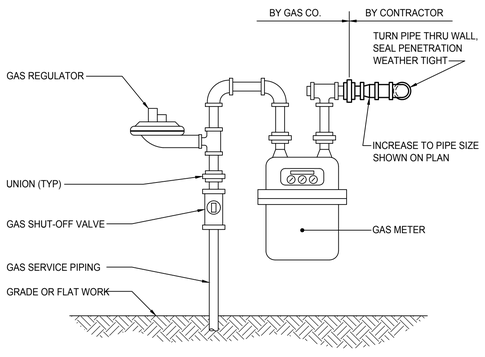
S:\ENG Projects\Riverstone FS\Engineering\Riverstone Fire Station Plumbing Lead.dwg CHerlihy778E Apr 30,2026-4:01pm



3 AIR HOSE REEL
NTS



2 MULTIPLE PIPES SUPPORT - CMU WALL
NTS



1 GAS METER
NTS

GAS STORAGE WATER HEATER SCHEDULE

TAG	MAKE	MODEL	CAPACITY		DIMENSIONS Ø X HEIGHT	AIR INTAKE / FLUE EXHAUST CONNECTION SIZE INCHES	FUEL		THERMAL EFFICIENCY	SET POINT °F	INSTALLATION LOCATION	VENT TYPE	ELECTRICAL DATA			OPTIONAL KITS			DRY WEIGHT LBS	APPROXIMATE FULL WEIGHT LBS	REMARKS SEE BELOW	INSTALLATION DETAIL
			STORAGE GALLONS	RECOVERY AT TEMP RISE 60°F, 80°F, 100°F GPH			TYPE	GAS INPUT MBTUH					POWER V/ϕ/HZ	AMPS	MOCP	LOW PROFILE SIDEWALL VENT KIT	CONCENTRIC VENT KIT	CONDENSATE NEUTRALIZER KIT				
WH 1	AO SMITH	BTH-150[A]	100	297, 223, 178	27-3/4" X 76-1/2"	3 / 3	NG	150	98%	120	MECH 104	POWER DIRECT VENT	120/1/60	5.0	15	NO	YES	YES	553	1390	1	7/P-002

NOTES: 1. PROVIDE WITH UL 1738 TESTED COMBUSTION AIR INTAKE, FLUE DISCHARGE PIPING, AND CONCENTRIC VENT KIT 100111100.

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	ADA	COMPONENTS	MANUFACTURER	MODEL	POWER V/Φ/HZ	DESCRIPTION	BRANCH PIPE SIZE				INSTALLATION DETAIL
								W	V	CW	HW	
BF-1	BOTTLE FILLER IN WALL	YES	ASSEMBLY	ELKAY	LIV PRO	115/1/60	IN WALL, 5-1/8x18x28, SENSOR ACTIVATED WITH STAINLESS FACE PLATE. PROVIDE WITH FILTER BOX.	1-1/2"	1-1/4"	1/2"	NA	NA
BS-1	BAR SINK UNDERMOUNT	YES	FAUCET	CHICAGO	2302-E35ABCP	NA	BOWL INTEGRAL TO COUNTERTOP. PROVIDE 1.5 GPM FAUCET, GRID STRAINER, STOPS, SUPPLIES AND C.P. BRASS "P" TRAP.	2"	1-1/2"	1/2"	1/2"	NA
DF-1	DRINKING FOUNTAIN IN WALL / DUAL HEIGHT	YES	FOUNTAIN	HAWS	LZSTL8WSVRSK	115/1/60	WALL MOUNTED, DUAL HEIGHT, DRINKING FOUNTAIN WITH BOTTLE FILLER, INSTALL COMPLETE SYSTEM PER ADA REQUIREMENTS. PROVIDE 120V DUPLEX OUTLET WITH A DEDICATED 20A GFCI CIRCUIT.	2"	1-1/2"	1/2"	NA	NA
FD-1	FLOOR DRAIN	NO	DRAIN	WATTS	FD-100	NA	5"Ø, CAST IRON W/ROUND BRONZE STRAINER. PROVIDE WITH VANDAL PROOF SCREWS, HEEL PROOF STRAINER, NO HUB CONNECTION, AND TRAP PRIMER CONNECTION. SEE DETAIL 4/P-002 FOR TRAP PRIMER INFORMATION.	2"	1-1/2"	NA	NA	4/P-002
FS-1	FLOOR SINK	NO	DRAIN	WATTS	FS-730	NA	12x12x6-1/4 ENAMELED CAST IRON W/HALF GRATE AND DOME STRAINER. NO HUB CONNECTION.	2"	1-1/2"	NA	NA	4/P-002
GOB-1	GAS OUTLET BOX	NO	GAS OUTLET BOX	OATEY	38697	NA	8-1/4x8-1/4x3-3/8 RECESSED IN WALL PLASTIC BOX W/BRASS VALVE	NA	NA	NA	NA	NA
HB-1	HOSE BIBB RECESSED	NO	HOSE BIBB	WOODFORD	MB224	NA	POLISHED CHROME PLATED BRASS WITH VACUUM BREAKER. PROVIDE W/LOOSE TEE KEY	NA	NA	3/4"	NA	NA
HV-1	HOSE VALVE	NO	HOSE BIBB	POTTER ROEMER	4080-B	NA	POLISHED BRASS, ANGLE VALVE. FEMALE INLET AND MALE OUTLET ADJUSTABLE PRESSURE ANGLE VALVE.	NA	NA	1-1/2"	NA	1/P-100
			CAP AND CHAIN	POTTER ROEMER	4615	NA						
HR-1	HOSE REEL	NO	HOSE REEL	REELCRAFT	7000	NA	POWDER COATED STEEL, 20-1/4x19-3/4X7, 1/2"Ø REEL INLET AND 3/8"Ø HOSE OUTLET , 300 PSI RATED, WITH 50 FOOT HOSE.	NA	NA	NA	NA	3/P-001
IMS-1	ICE MAKER SUPPLY	NO	ICE MAKER SUPPLY	OATEY	37689	NA	6x6x3-3/8 RECESSED IN WALL PLASTIC BOX W/BRASS VALVE AND HAMMER ARRESTOR	NA	NA	1/2"	NA	NA
KS-1	KITCHEN SINK	NO	FAUCET	ELKAY	LKAV2061	NA	BOWL INTEGRAL TO COUNTERTOP. PROVIDE WITH 1.8 GPM FAUCET, GRID STRAINER, STOPS, SUPPLIES AND C.P. BRASS "P" TRAP. PROVIDE W/ DISPOSER LOCATED UNDER SINK. PROVIDE DEDICATED ELECTRICAL OUTLET PER ELECTRICAL PLANS.	2"	1-1/2"	1/2"	1/2"	NA
			DISPOSER	INSINKERATOR	BADGER 5	120/1/60 6.3A						
LAV-1	LAVATORY WALL MOUNT	YES	SINK	ZURN	Z5344	NA	WALL MOUNTED, 20x18, VITREOUS CHINA, WHITE. PROVIDE WITH 1.5 GPM FAUCET, GRID STRAINER, STOPS, SUPPLIES, C.P. BRASS "P" TRAP, & ZURN WALL SUPPORT #Z1231. INSTALL PER ADA REQUIREMENTS, PROVIDE POINT OF USE THERMOSTATIC MIXING VALVE, WATTS MINIMIXING OR APPROVED EQUAL. THERMOSTATIC MIXING VALVE SHALL LIMIT OUTLET TEMPERATURE TO 110°F. INSTALL PER ADA REQUIREMENTS.	2"	1-1/2"	1/2"	1/2"	10/P-002
			FAUCET	CHICAGO	2200-4E39VPABCP	NA						
LAV-2	LAVATORY UNDERMOUNT	YES	SINK	ZURN	Z5110	NA	20x17, VITREOUS CHINA, WHITE. INTEGRAL SINGLE BOWL. CHICAGO FAUCET #2200-4-2300-4KABCP, 0.5 GPM AERATOR. PROVIDE WITH STOPS, SUPPLIES & C.P. BRASS "P" TRAP. PROVIDE POINT OF USE THERMOSTATIC MIXING VALVE, WATTS MINIMIXING OR APPROVED EQUAL. THERMOSTATIC MIXING VALVE SHALL LIMIT OUTLET TEMPERATURE TO 110°F.	2"	1-1/2"	1/2"	1/2"	10/P-002
			FAUCET	CHICAGO	2200-4-2300-4KAB CP	NA						
LSB-1	LAUNDRY SUPPLY BOX	NO	BOX	OATEY	38656	NA	RECESSED, WASHING MACHINE BOX WITH TOP MOUNTED WATER CONNECTIONS. PROVIDE WITH WATER HAMMER ARRESTORS. INSTALL WITH STANDPIPE RECEPTOR PER CPC 804.1.	2"	1-1/2"	1/2"	1/2"	NA
MSK-1	MOP SINK	NO	SINK	FIAT	TSB3010	NA	FLOOR MOUNTED, 24x24x12, PRECAST TERRAZZO, W/STAINLESS STEEL STRAINER, HOSE AND BRACKET.	3"	2"	3/4"	3/4"	NA
			FAUCET	T&S BRASS	B-0665-BSTP	NA						
			STRAINER	HOSE	832AA	NA						
RD-1	ROOF DRAIN & OVERFLOW COMBO	NO	DRIAN	WATTS	RD-700	NA	FLUSH MOUNTED, 21x13-1/16x5-1/16. CAST IRON BODY WITH DUCTILE IRON DOME AND NO HUB CONNECTIONS. OVERFLOW PROVIDED WITH 2" WATER DAM.	3"	NA	NA	NA	NA
S-1	HAND SINK WALL MOUNTED	NO	SINK	ELKAY	DLR191910PD	NA	COUNTER MOUNTED, 19x19-1/2x10-1/8, SINGLE BOWL, STAINLESS STEEL, 18 GA, TWO HOLE. PROVIDE 1.5 GPM FAUCET, GRID STRAINER, STOPS, SUPPLIES AND C.P. BRASS "P" TRAP.	2"	1-1/2"	1/2"	1/2"	NA
			FAUCET	CHICAGO	526-E35-317ABCP							
S-2	BAR SINK UNDERMOUNT	NO	SINK	ELKAY	SS81242	NA	FREE STANDING, 27x27-1/2x44, SINGLE BASIN, STAINLESS STEEL, 14 GA. PROVIDE 1.15 GPM FAUCET, WALL MOUNT, LOW PROFILE SPRAY WITH 8" SWING NOZZLE AND WRIST BLADE HANDLES.	2"	1-1/2"	1/2"	1/2"	NA
			FAUCET	T&S BRASS	MPZ-8WWN-08	NA						
S-3	SINK FREE STANDING SINGLE BOWL	NO	SINK	ELKAY	SS8136L2	NA	FREE STANDING, SINGLE BASIN, STAINLESS STEEL, 14 GA. W/ DRAIN BOARD. PROVIDE 1.5 GPM SENSOR OPERATED FAUCETWITH HYDRO-ELECTRIC GENERATOR. AND 1.5GPM, MANUAL SPRAY FAUCET.	2"	1-1/2"	1/2"	1/2"	NA
			FAUCET	ZURN	Z842X1-H							
			FAUCET	ZURN	Z6922-XL-HYD-J	NA						
SH-1	SHOWER	YES	MIXING VALVE	LEONARD	7600-H14-D2L	NA	CUSTOM TERRAZZO SHOWER RECEPTOR, 42x36, VERIFY SIZE TO MATCH ARCHITECTURAL PLANS. INCLUDES FLOOR DRAIN W/STAINLESS STEEL STRAINER. SOLID SURFACE WALLS PER ARCHITECTURAL DRAWINGS. VALVE W/STOPS, SS METAL HEAD AND SOAP DISH.	2"	1-1/2"	1/2"	1/2"	NA
			PAN	FIAT	4236-MFTR	NA						
TD-1	TRENCH DRAIN	NO	DRAIN	WATTS	DEAD LEVEL D	NA	PRE-SLOPED TRENCH DRAIN SYSTEM WITH DUCTILE IRON FRAME, INTEGRAL 4" NO HUB BOTTOM OR END OUTLETS, SYSTEM SHALL BE FRAME-ANCHORED. INCLUDE ENDCAPS, FRAME CONNECTORS, GRATE LOCKDOWNS, AND CONSTRUCTION COVERS. DUCTILE IRON GRATING.	4"	2"	NA	NA	NA
			GRATE	WATTS	DI	NA						
WC-1	WATER CLOSET FLOOR MOUNT TANK TYPE	YES	WATER CLOSET	ZURN	Z5555	NA	FLOOR MOUNTED, 29-1/2x19x16-1/2, VITREOUS CHINA, WHITE, ELONGATED, 1.28 GPF MANUAL OPERATED. PROVIDE STOP, SUPPLY, AND ELONGATED SEAT INSTALL PER ADA REQUIREMENTS, LEFT HAND FLUSH.	3"	2"	3/4"	NA	NA
			SEAT	ZURN	Z5958SS-EL	NA						
WC-2	WATER CLOSET FLOOR MOUNT TANK TYPE	NO	WATER CLOSET	ZURN	Z5555-RH	NA	FLOOR MOUNTED, 29-1/2x19x16-1/2, VITREOUS CHINA, WHITE, ELONGATED, 1.28 GPF MANUAL OPERATED. PROVIDE STOP, SUPPLY,AND ELONGATED SEAT INSTALL PER ADA REQUIREMENTS. FLUSH HANDLE ON WIDE SIDE OF FIXTURE. CONTRACTOR TO REFER TO ARCHITECTURAL PLANS.	3"	2"	3/4"	NA	NA
			SEAT	ZURN	Z5958SS-EL	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.

CIRCULATION PUMP SCHEDULE

TAG	MAKE	MODEL	MOTOR TYPE	GPM	FEET OF HEAD	INLET WATER TEMP °F	ELECTRICAL DATA			OPERATING WEIGHT LBS	REMARKS SEE BELOW	INSTALLATION DETAIL
							POWER V/ϕ/HZ	WATTS	RPM			
CP 1	GRUNDFOS	UP15-18B5	ODP	3	5	105	120/1/60	85	1750	2	1, 2, 3	7/P-002

NOTES: 1. DISCONNECT PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
2. PROVIDE AUTOMATIC TIME CLOCK WITH CIRCULATION PUMP.
3. 120 VOLT RECEPTACLE PROVIDED BY ELECTRICAL CONTRACTOR.

AIR COMPRESSOR

TAG	MAKE	MODEL	DIMENSIONS	CFM	PSI	DATA		TYPE	TANK SIZE (GALLONS)	AIR DRYER	APPROX SHIPPING WEIGHT (LBS)	REMARKS SEE BELOW	INSTALLATION DETAIL
						POWER V/ϕ/HZ	HP						
AC 1	GARDNER DENVER	VR5-8	35x27x75	21	125	208/3/60	5	RECIP	80	NA	590	1, 2	1/P-003

NOTES: 1. PROVIDE WITH ALL ACCESSORIES AND SUPPORT EQUIPMENT SPECIFIED IN AIR COMPRESSOR DETAIL.
2. PROVIDE WITH VIBRATION ISOLATION OPTION.

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THIS DOCUMENT FOR PLAN CHECK OR PERMIT SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2021
RRM IS A CALIFORNIA CORPORATION

REGISTERED PROFESSIONAL ENGINEER JONATHAN P. STARRETT M 34068 EXP. 6/30/26 MECHANICAL STATE OF CALIFORNIA

CONSULTANT

3C Engineering
An EMCOR Company
(805) 540-1343
1533 Palm St, San Luis Obispo, CA, 93401

BY Mesa Energy Systems, Inc., ALL COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS RESERVE THIS DOCUMENT AS AN ORIGINAL AND UNPUBLISHED WORK PRODUCT. THIS WORK SHALL NOT BE DUPLICATED, COPIED, DISCLOSED OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH IT AS BEEN PREPARED, NOR SHALL IT BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF VISUAL CONTACT. THIS DOCUMENT SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40
SCHEDULES

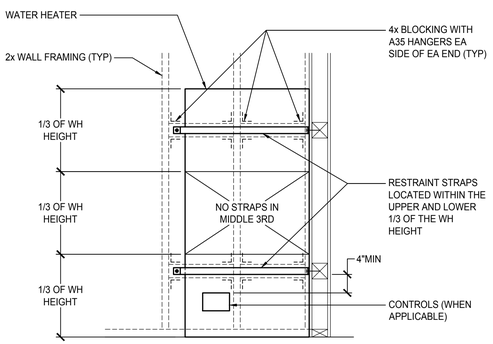
NO.	REVISION	DATE
1	PLAN CHECK RESPONSE 1	12/18/25
2	PLAN CHECK RESPONSE 2	02/27/26

PROJECT MANAGER: DS
DRAWN BY: EF
CHECKED BY: BS
DATE: MAY 4, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: P-001

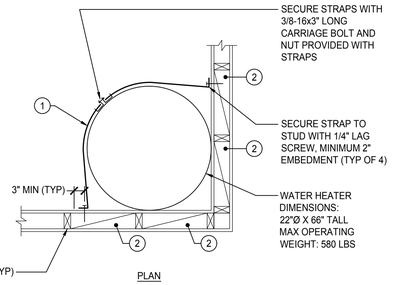
BID DOCUMENTS

City of Madera – Community Development Department – Building Division – Plans Approved Under the 2022 California Building Code

S:\ENG Projects\Riverstone FS\Engineering\Riverstone Fire Station Plumbing Lead.dwg CHerlihy778E Apr 30,2026-4:01pm



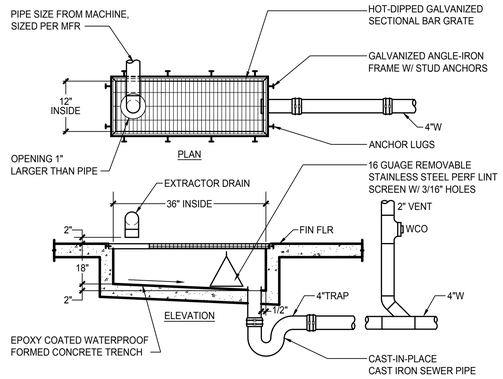
ELEVATION



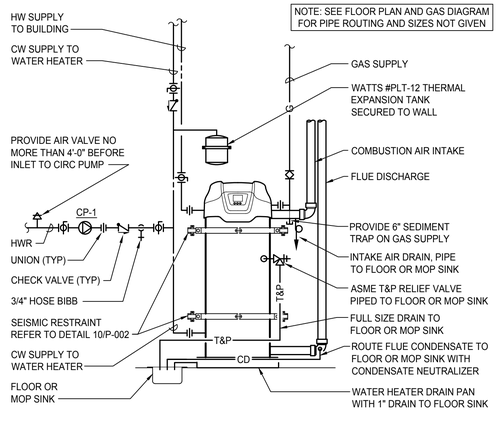
PLAN

KEY NOTES	
APPLICABLE TO THIS DETAIL ONLY	
1	HOLDRITE QUICK STRAP WATER HEATER RESTRAINT STRAPS. PROVIDE MODEL QS-50 (DSA APPROVAL NO. 97-010) FOR WATER HEATERS UP TO 80 GALLONS. PROVIDE MODEL QS-120 (DSA APPROVAL NO. 98-018) FOR WATER HEATERS 81-120 GALLONS. INSTALL IN STRICT ACCORDANCE WITH THE MANUFACTURERS INSTALLATION INSTRUCTIONS.
2	4X BLOCKING WITH A35 CLIPS EACH SIDE OF EACH END.

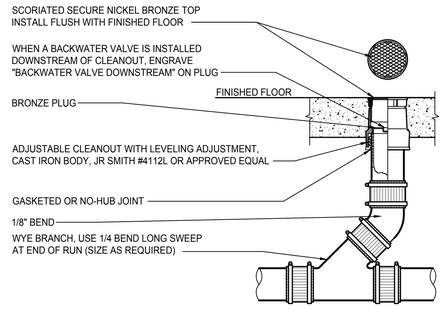
9 TANK TYPE WH RESTRAINT
NTS



6 TROUGH DRAIN
FOR REAR DISCHARGE WASHER/EXTRACTOR

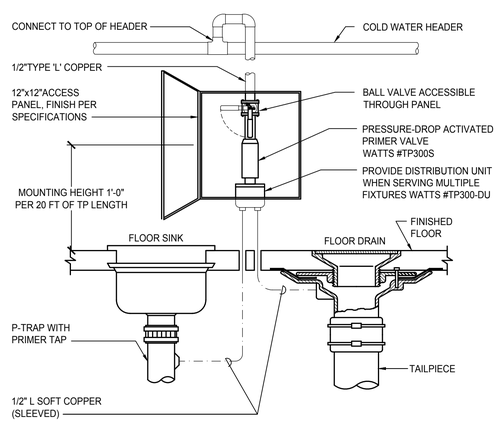


7 WATER HEATER PIPING SCHEMATIC
NTS

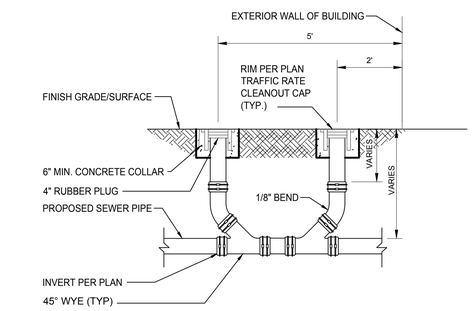


CLEANOUTS IN PIPING 2" OR LESS SHALL HAVE A CLEARANCE OF NOT LESS THAN 18" X 18" IN FRONT OF THE CLEANOUT, CLEANOUTS IN PIPING LARGER THAN 2" INCHES SHALL HAVE A CLEARANCE OF NOT LESS THAN 24" X 24".		
CLEANOUTS: CPC TABLE 707.1		
PIPE SIZE	**CLEANOUT SIZE**	**THREADS (PER INCH)**
1-1/2" - 2"	1-1/2"	11-1/2
2-1/2" - 3"	2-1/2"	8
4" & LARGER	3-1/2"	8

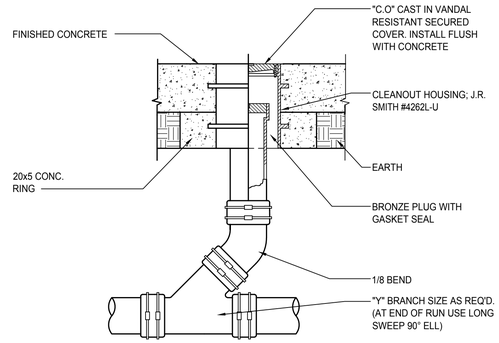
3 FLOOR CLEANOUT
NTS



4 TRAP PRIMER
NTS



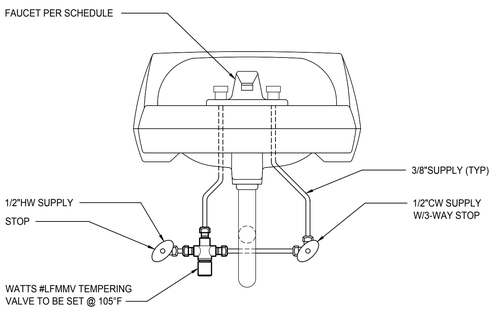
NOTES:
1) CHIMNEY SIZE AND CONNECTIONS SHALL BE 4".
2) PIPE AND FITTINGS SHALL BE PVC
3) BEDDING AND BACKFILL SHALL BE THE SAME AS FOR MAIN SEWER.



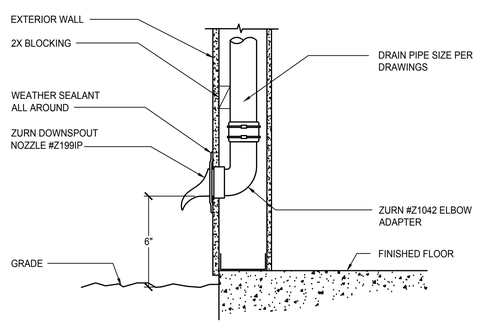
FINISHED CONCRETE AREAS

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

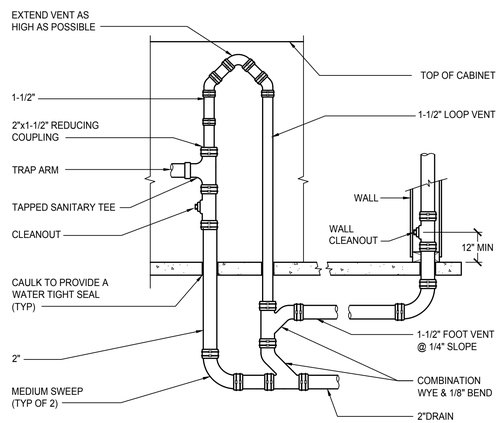
1 CLEANOUT TO GRADE
NTS



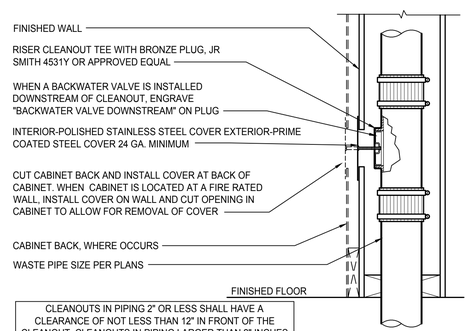
10 LAVATORY TEMPERING VALVE
NTS



8 OVERFLOW TERMINATION
NTS



5 ISLAND VENT
NTS



CLEANOUTS IN PIPING 2" OR LESS SHALL HAVE A CLEARANCE OF NOT LESS THAN 12" IN FRONT OF THE CLEANOUT, CLEANOUTS IN PIPING LARGER THAN 2" INCHES SHALL HAVE A CLEARANCE OF NOT LESS THAN 18".	
CLEANOUTS: CPC TABLE 707.1	
PIPE SIZE	**CLEANOUT SIZE**
1-1/2" - 2"	1-1/2"
2-1/2" - 3"	2-1/2"
4" & LARGER	3-1/2"

2 WALL CLEANOUT
NTS

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PLAN CHECK OR PERMIT SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2021
RRM IS A CALIFORNIA CORPORATION

CONSULTANT

3C Engineering
An EMCOR Company
(805) 540-1341
1533 Palm St, San Luis Obispo, CA, 93401

BY Mesa Energy Systems, Inc., ALL COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS RESERVE THIS DOCUMENT AS AN ORIGINAL AND UNPUBLISHED WORK PRODUCT. THIS WORK SHALL NOT BE DUPLICATED, COPIED, DISCLOSED OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH IT AS BEEN PREPARED, NOR SHALL IT BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF VISUAL CONTACT. THIS DOCUMENT SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

DETAILS

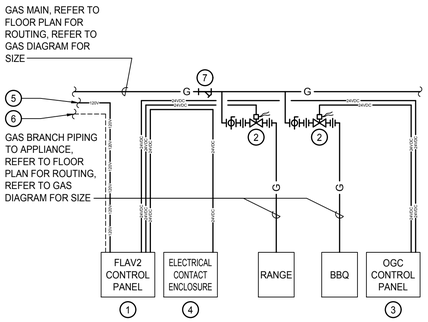
BID DOCUMENTS

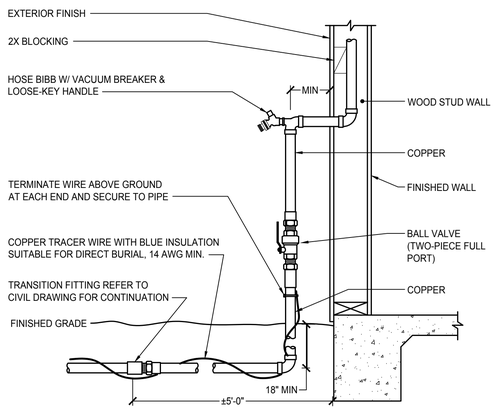
NO.	REVISION	DATE
1	PLAN CHECK RESPONSE 1	12/18/25
2	PLAN CHECK RESPONSE 2	02/27/26

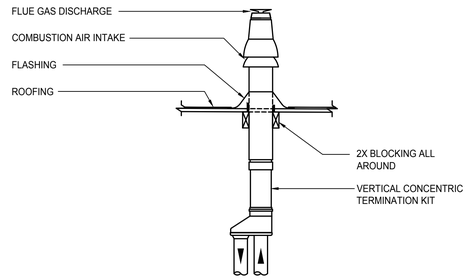
PROJECT MANAGER: DS
DRAWN BY: EF
CHECKED BY: BS
DATE: MAY 4, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: P-002

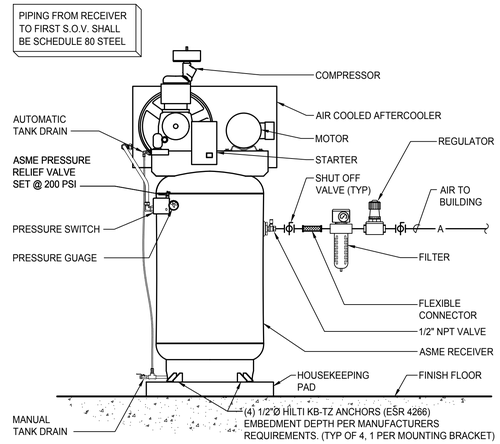
Approved for Construction
City of Madera – Community Development Department
Building Division
Plans Approved Under the 2022 California Building Code
Date: 05/04/2026

S:\ENG Projects\Riverstone FS\Engineering\Riverstone Fire Station Plumbing Lead.dwg CHerlihy778E Apr 30,2026-4:01pm









DETAIL KEY NOTES

1	ISIMET MODEL FLAV2 FIRE STATION COOKING UTILITY CONTROLLER WITH MANUAL SHUT-OFF PUSH BUTTON, RESET BUTTON AND INDICATOR LIGHTS. FLUSH MOUNT. PROVIDE 120V POWER AND A CONNECTION TO THE ALERTING SYSTEM. CONTROLLER SHALL SHUT OFF GAS TO THE RANGE AND BBQ UPON ACTIVATION OF THE ALERTING SYSTEM OR WHEN THE MANUAL SHUT-OFF BUTTON IS ACTIVATED.
2	ISIMET 24VDC NORMALLY CLOSED SOLENOID VALVE. VALVE SIZE SHALL MATCH THE BRANCH PIPE SIZE TO THE APPLIANCE. PROVIDE SHUT OFF VALVE AND UNION'S AS SHOWN. REFER TO FLOOR PLAN FOR PIPE ROUTING AND VALVE LOCATION. REFER TO THE GAS DIAGRAM FOR PIPE SIZE.
3	ISIMET MODEL OGC OUTDOOR GRILL CONTROLLER WITH INTEGRAL TIMER (2, 4 OR 8 HOUR AUTO SHUTDOWN). INPUT VOLTAGE 24VDC SUPPLIED FROM FLAV2 CONTROLLER. OUTPUT VOLTAGE 24VDC. FLUSH MOUNT. PROVIDE WITH CLEAR COVER AND WEATHERPROOF SEAL.
4	ISIMET E-SERIES ELECTRICAL APPLIANCE AND OUTLET CONTROL. FLUSH MOUNT WITH HAND KNOB DOOR LATCH. PROVIDED BY PLUMBING CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL DRAWINGS LOCATION.
5	DEDICATED 120V, 15 AMP CIRCUIT TO THE FLAV2 CONTROLLER BY ELECTRICAL CONTRACTOR.
6	LOW VOLTAGE SIGNAL FROM ALERTING SYSTEM BY OWNERS ALERTING SYSTEM VENDOR.
7	WYE-STRAINER, MINIMUM 20 MESH.

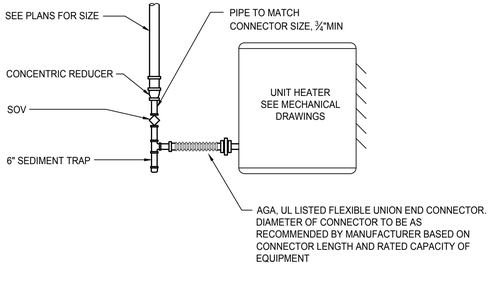
DETAIL GENERAL NOTES

1	REFER TO FLOOR PLAN FOR LOCATION OF CONTROLLERS AND GAS VALVE ASSEMBLIES.
2	CONTROL PANELS SHALL BE MOUNTED AT A HEIGHT THAT COMPLIES WITH ADA REQUIREMENTS. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR MOUNTING HEIGHT. WHEN NOT SHOWN ON THE ARCHITECTURAL INTERIOR ELEVATIONS MOUNT AT 48" AFF.
3	PROVIDE ACCESS PANEL WHEN GAS SOLENOID VALVE ASSEMBLIES ARE LOCATED ABOVE HARD CEILINGS.
4	24VDC WIRING BY PLUMBING CONTRACTOR. PROVIDE 18/4 AWG COPPER WIRING. CONDUIT BY ELECTRICAL CONTRACTOR.
5	CONTROL WIRING MUST BE INSTALLED IN SEPARATE CONDUIT FROM POWER WIRING.

7 BUILDING WATER SUPPLY
NTS

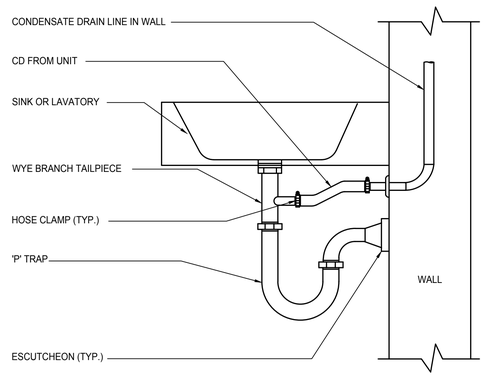
4 CONCENTRIC TERMINATION
NTS

1 AIR COMPRESSOR
NTS

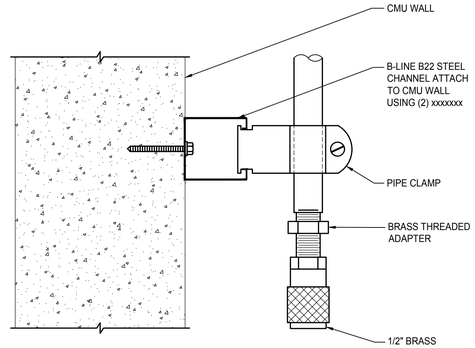


10 GAS SHUT OFF SYSTEM
NTS

8 FANCOIL CONDENSATE DRAIN
NTS



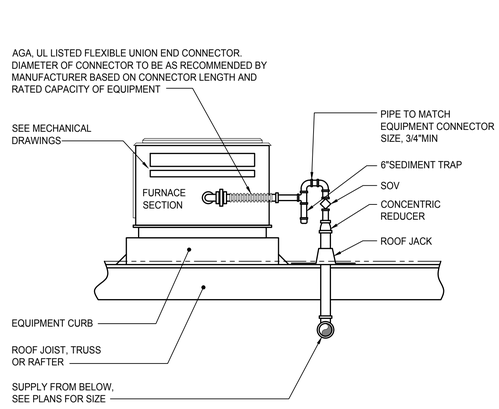
5 CONDENSATE TO FIXTURE TAIL PIECE
NTS



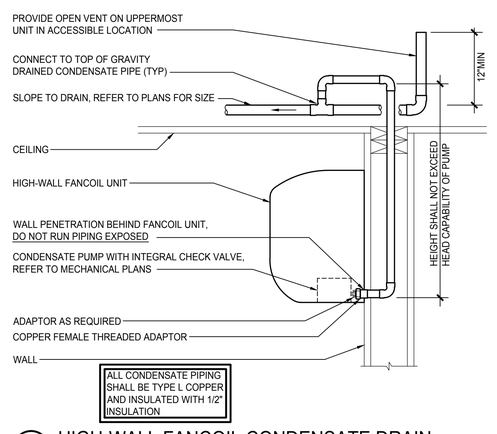
2 COMPRESSED AIR QUICK CONNECT
NTS

11 UNIT HEATER GAS CONNECTION
NTS

9 UNIT CONDENSATE DRAIN
NTS



6 GAS CONNECTION TO MECHANICAL EQUIPMENT
NTS



3 HIGH-WALL FANCOIL CONDENSATE DRAIN
NTS

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THIS DOCUMENT FOR PLAN CHECK OR PERMIT SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2021
RRM IS A CALIFORNIA CORPORATION

REGISTERED PROFESSIONAL ENGINEER — JONATHAN P. STARRETT — M 34068 — EXP. 6/30/26 — MECHANICAL — STATE OF CALIFORNIA

CONSULTANT

3C Engineering
An EMCOR Company
(805) 540-1343
1533 Palm St, San Luis Obispo, CA, 93401

BY Mesa Energy Systems, Inc., ALL COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS RESERVE THIS DOCUMENT AS AN ORIGINAL AND UNPUBLISHED WORK PRODUCT. THIS WORK SHALL NOT BE DUPLICATED, COPIED, DISCLOSED OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH IT AS BEEN PREPARED, NOR SHALL IT BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF VISUAL CONTACT. THIS DOCUMENT SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

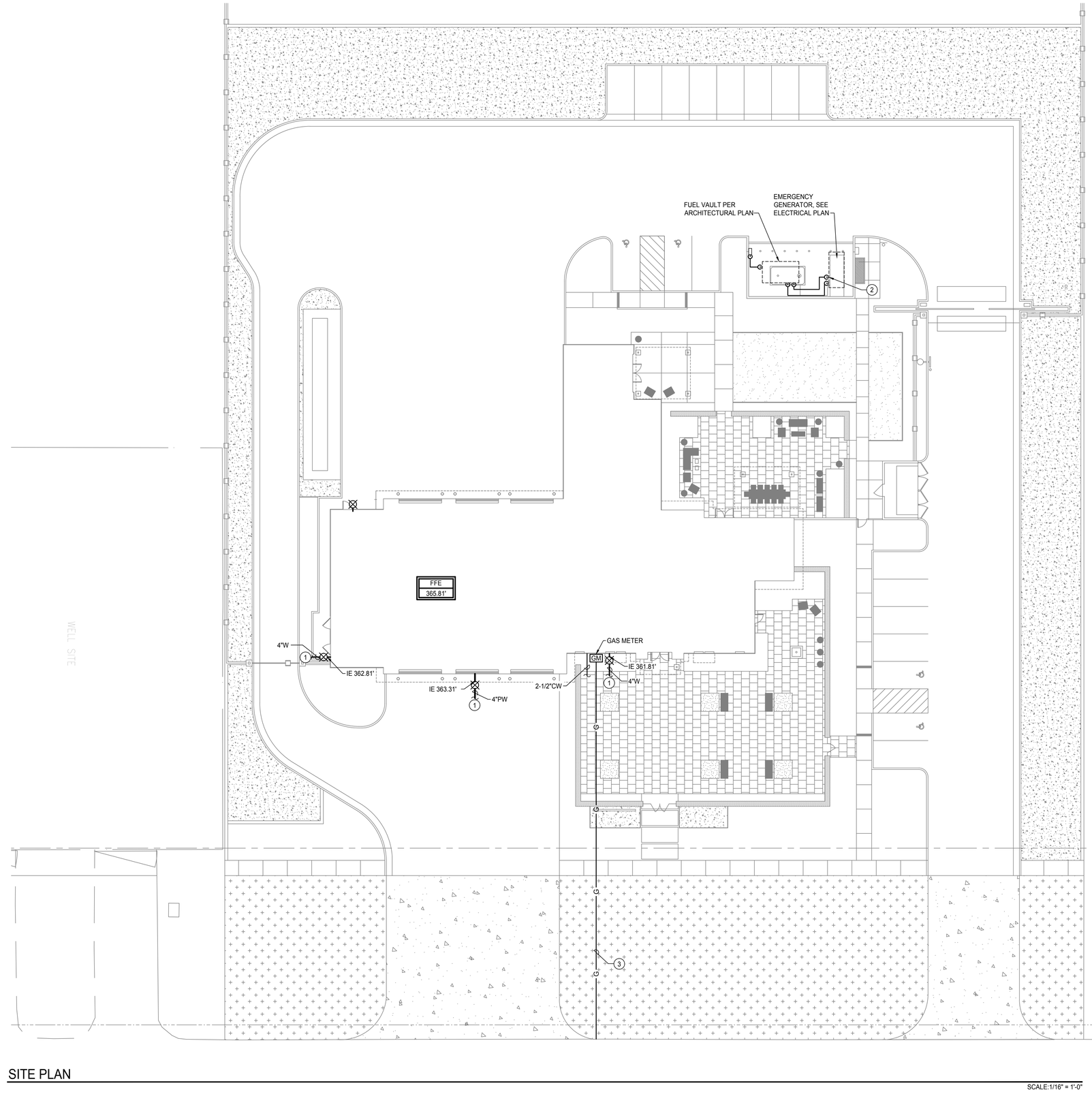
DETAILS

NO.	REVISION	DATE
1	PLAN CHECK RESPONSE 1	12/18/25
2	PLAN CHECK RESPONSE 2	02/27/26

PROJECT MANAGER: DS
DRAWN BY: EF | CHECKED BY: BS
DATE: Nov 4, 2026 (Date: 05/04/2026)
PROJECT NUMBER: 2471-01-CI21
SHEET: P-003

County of Madera – Certificate of Plans Approved Under the 2022 California Building Code Division of Building and Fire Safety

S:\ENG Projects\Riverstone FS\Engineering\Riverstone Fire Station Plumbing Lead.dwg CHerlihy778E Apr 30,2026-4:01pm



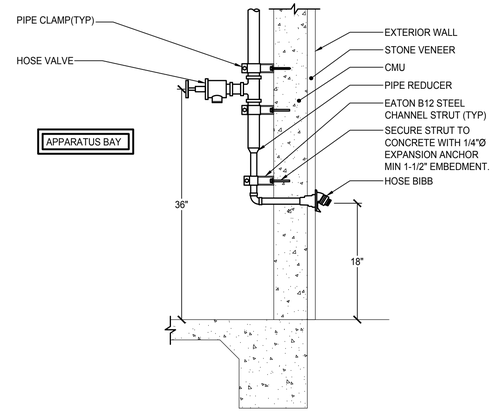
SITE PLAN

SCALE:1/16" = 1'-0"

KEY NOTES

APPLICABLE TO THIS SHEET ONLY

1	SEE CIVIL PLANS FOR CONTINUATION.
2	ROUTE 1-1/2" FOS & R PIPING BETWEEN FUEL VAULT AND GENERATOR PROVIDE LEAK DETECTION AT LOWEST POINTS (EACH PIPE) AND AT CONNECTIONS TO GENERATOR AND STORAGE TANK.
3	POLYETHYLENE PLASTIC PIPE FROM POC IN STREET TO (N) GAS METER. METER AND REGULATOR PROVIDED BY PG&E.



1 APPARATUS TRUCK FILL STATION
NTS

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTED DRAWINGS ARE NOT TO BE SCALED. PRINTS MAY SHRINK. SHALL NOTBE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2021
RRM IS A CALIFORNIA CORPORATION

REGISTERED PROFESSIONAL ENGINEER
JONATHAN P. STARRETT
M 34068
EXP. 6/30/26
MECHANICAL
STATE OF CALIFORNIA

CONSULTANT

3C Engineering
An EMCOR Company
(805) 540-1343
1533 Palm St, San Luis Obispo, CA, 93401

BY Mesa Energy Systems, Inc., ALL COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS RESERVE THIS DOCUMENT AS AN ORIGINAL AND UNPUBLISHED WORK PRODUCT. THIS WORK SHALL NOT BE DUPLICATED, COPIED, DISCLOSED OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH IT AS BEEN PREPARED, NOR SHALL IT BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF VISUAL CONTACT. THIS DOCUMENT SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

BID DOCUMENTS

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

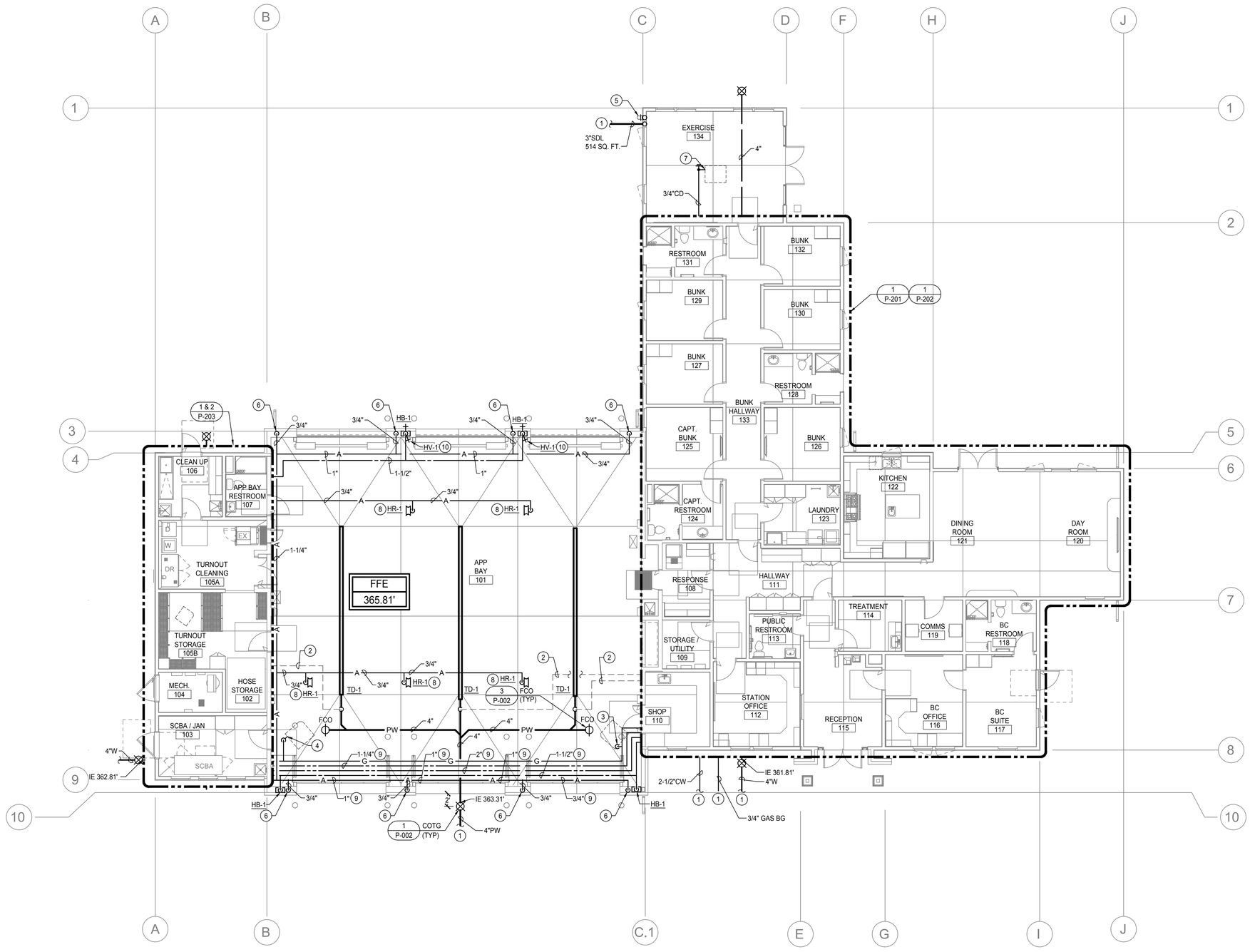
SITE PLAN

NO.	REVISION	DATE
1	PLAN CHECK RESPONSE 1	12/18/25
2	PLAN CHECK RESPONSE 2	02/27/26

PROJECT MANAGER
DS
DRAWN BY
EF
CHECKED BY
BS
DATE
Date: 05/04/2026
May 4, 2026
PROJECT NUMBER
2471-01-CI21
SHEET
P-100

City of Madera – Community Development Department
Plans Approved Under the 2022 Fire Safe Structure Building Standards
Building Plans must comply with all Codes and Ordinances, not listed, without signature

S:\ENG Projects\Riverstone FS\Engineering\Riverstone Fire Station Plumbing Plans.dwg CHeithly7788E,Apr 30,2026-4:01pm



KEY NOTES

APPLICABLE TO THIS SHEET ONLY

1	REFER TO CIVIL PLANS FOR CONTINUATION OF PIPING.
2	2" VENT BELOW FLOOR.
3	1" GAS CONNECTION TO MECHANICAL EQUIPMENT. SEE DETAIL 11/P-003 FOR MORE INFORMATION.
4	1-1/4" GAS CONNECTION TO MECHANICAL EQUIPMENT. SEE DETAIL 11/P-003 FOR MORE INFORMATION.
5	3"SDL AND SDO FROM ABOVE. TERMINATE SDO TO GRADE. SEE DETAIL 8/P-002 FOR MORE INFORMATION.
6	3/4" COMPRESSED AIR DOWN IN WALL. PROVIDE QUICK CONNECT/DISCONNECT. SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHT AND EXACT LOCATION.
7	3/4" CONDENSATE CONNECTION TO MECHANICAL EQUIPMENT. SEE DETAIL 8/P-003 FOR MORE INFORMATION.
8	1/2" AIR DOWN TO HOSE REEL. SEE DETAIL 3/P-001 FOR MORE INFORMATION.
9	ATTACH PIPING TO WALL IN VERTICAL CONFIGURATION. SEE DETAIL 2/P-001 FOR MORE INFORMATION.
10	ORIENT HOSE VALVE PERPENDICULAR TO FACE OF WALL. SEE DETAIL 1/P-100 FOR MORE INFORMATION.

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	SEE GAS RISER DIAGRAM ON SHEET P-001 FOR SIZING, CALCULATIONS AND EQUIPMENT LOADS.
4	SLOPE SANITARY WASTE PIPING MIN 2% IN DIRECTION OF FLOW.
5	SLOPE VENT PIPING UP TOWARDS VTR MIN 1%.
6	SLOPE CONDENSATE PIPING MIN 1% IN DIRECTION OF FLOW.
7	ALL ROOMS WITH FLOOR DRAINAGE MUST HAVE FLOORS SLOPED TOWARD DRAIN. SEE ARCHITECTURAL PLANS FOR REQUIRED SLOPE.
8	PROVIDE CLEANOUTS IN ALL LOCATIONS SHOWN. COORDINATE ALL WALL CLEANOUTS WITH PLUMBING FIXTURES, CASEWORK, AND ARCHITECTURAL ELEVATIONS. SEE DETAIL 2/P-002 FOR SIZING AND CLEARANCES REQUIRED.
9	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.
10	HORIZONTAL RAIN WATER PIPING HAS BEEN SIZED PER 2022 CPC TABLE 1103.2 USING A RAINFALL RATE OF 2"(IN/H) & 1/4"/FT SLOPE
11	REFER TO MECHANICAL PLANS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND DUCTWORK. COORDINATE ALL WORK TO FIT IN AVAILABLE SPACE.

FLOOR PLAN

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

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PLAN CHECK OR PERMIT SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2021
RRM IS A CALIFORNIA CORPORATION

REGISTERED PROFESSIONAL ENGINEER — JONATHAN P. STARRETT — M 34068 — EXP. 6/30/26 — MECHANICAL — STATE OF CALIFORNIA

CONSULTANT

3C Engineering
An EMCOR Company
(805) 540-1343
1533 Palm St, San Luis Obispo, CA, 93401

BY Mesa Energy Systems, Inc., ALL COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS RESERVE THIS DOCUMENT AS AN ORIGINAL AND UNPUBLISHED WORK PRODUCT. THIS WORK SHALL NOT BE DUPLICATED, COPIED, DISCLOSED OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH IT AS BEEN PREPARED, NOR SHALL IT BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF VISUAL CONTACT. THIS DOCUMENT SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

FLOOR PLAN

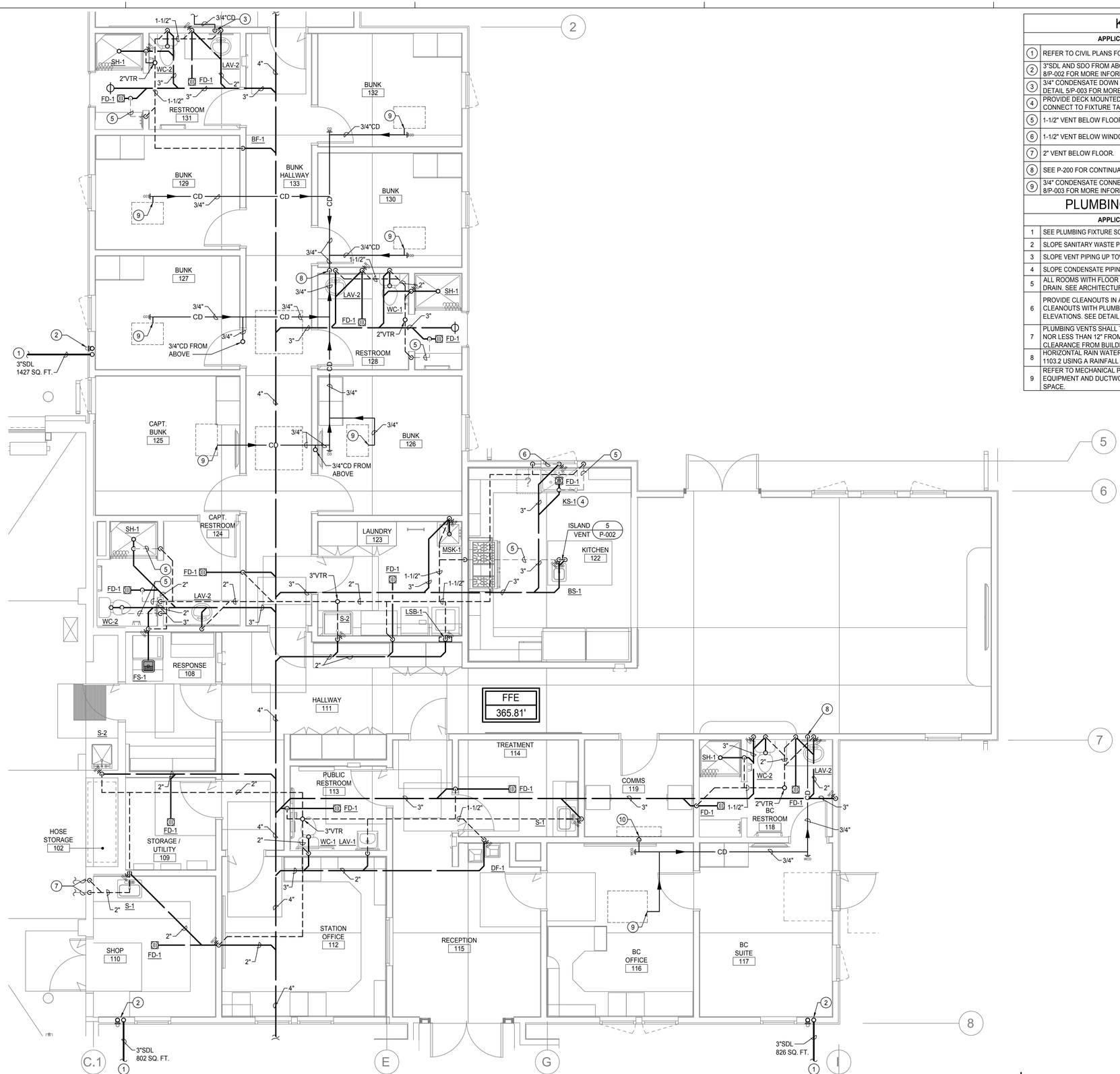
BID DOCUMENTS

NO.	REVISION	DATE
1	PLAN CHECK RESPONSE 1	12/18/25
2	PLAN CHECK RESPONSE 2	02/27/26

PROJECT MANAGER: DS
DRAWN BY: EF
CHECKED BY: BS
DATE: May 4, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: P-200

City of Madera – Community Development Division – Building and Fire Safety
Plans Approved Under the 2022 California building Codes
Date: 05/04/2026

S:\ENG Projects\Riverstone FS\Engineering\Riverstone Fire Station Plumbing Plans.dwg CHerlihy778E, Apr 30,2026-4:01pm



ENLARGED FLOOR PLAN - WASTE & VENT

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

KEY NOTES

APPLICABLE TO THIS SHEET ONLY

1	REFER TO CIVIL PLANS FOR CONTINUATION OF PIPING.
2	3"SDL AND SDO FROM ABOVE. TERMINATE SDO TO GRADE. SEE DETAIL 8/P-002 FOR MORE INFORMATION.
3	3/4" CONDENSATE DOWN IN WALL. TERMINATE TO FIXTURE TAILPIECE SEE DETAIL 5/P-003 FOR MORE INFORMATION.
4	PROVIDE DECK MOUNTED AIR GAP FITTING FOR DISHWASHER DRAIN. CONNECT TO FIXTURE TAILPIECE.
5	1-1/2" VENT BELOW FLOOR.
6	1-1/2" VENT BELOW WINDOW.
7	2" VENT BELOW FLOOR.
8	SEE P-200 FOR CONTINUATION.
9	3/4" CONDENSATE CONNECTION TO MECHANICAL EQUIPMENT. SEE DETAIL 8/P-003 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.
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-002 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	HORIZONTAL RAIN WATER PIPING HAS BEEN SIZED PER 2019 CPC TABLE 1103.2 USING A RAINFALL RATE OF 2"(IN/H) & 1/4"/FT SLOPE
9	REFER TO MECHANICAL PLANS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND DUCTWORK. COORDINATE ALL WORK TO FIT IN AVAILABLE SPACE.

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMISSION OR DISTRIBUTION OF THESE DOCUMENTS TO MEET OFFICIAL REGULATORY REQUIREMENTS OR FOR OTHER PURPOSES IN CONNECTION WITH THE PUBLICATION OF THE PROJECT SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2021
RRM IS A CALIFORNIA CORPORATION

REGISTERED PROFESSIONAL ENGINEER
JONATHAN P. STARRETT
M 34068
EXP. 6/30/26
MECHANICAL
STATE OF CALIFORNIA

CONSULTANT

3C Engineering
An EMCOR Company
(805) 540-1343
1533 Palm St, San Luis Obispo, CA, 93401

BY Mesa Energy Systems, Inc., ALL COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS RESERVE THIS DOCUMENT AS AN ORIGINAL AND UNPUBLISHED WORK PRODUCT. THIS WORK SHALL NOT BE DUPLICATED, COPIED, DISCLOSED OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH IT AS BEEN PREPARED, NOR SHALL IT BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF VISUAL CONTACT. THIS DOCUMENT SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

BID DOCUMENTS

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

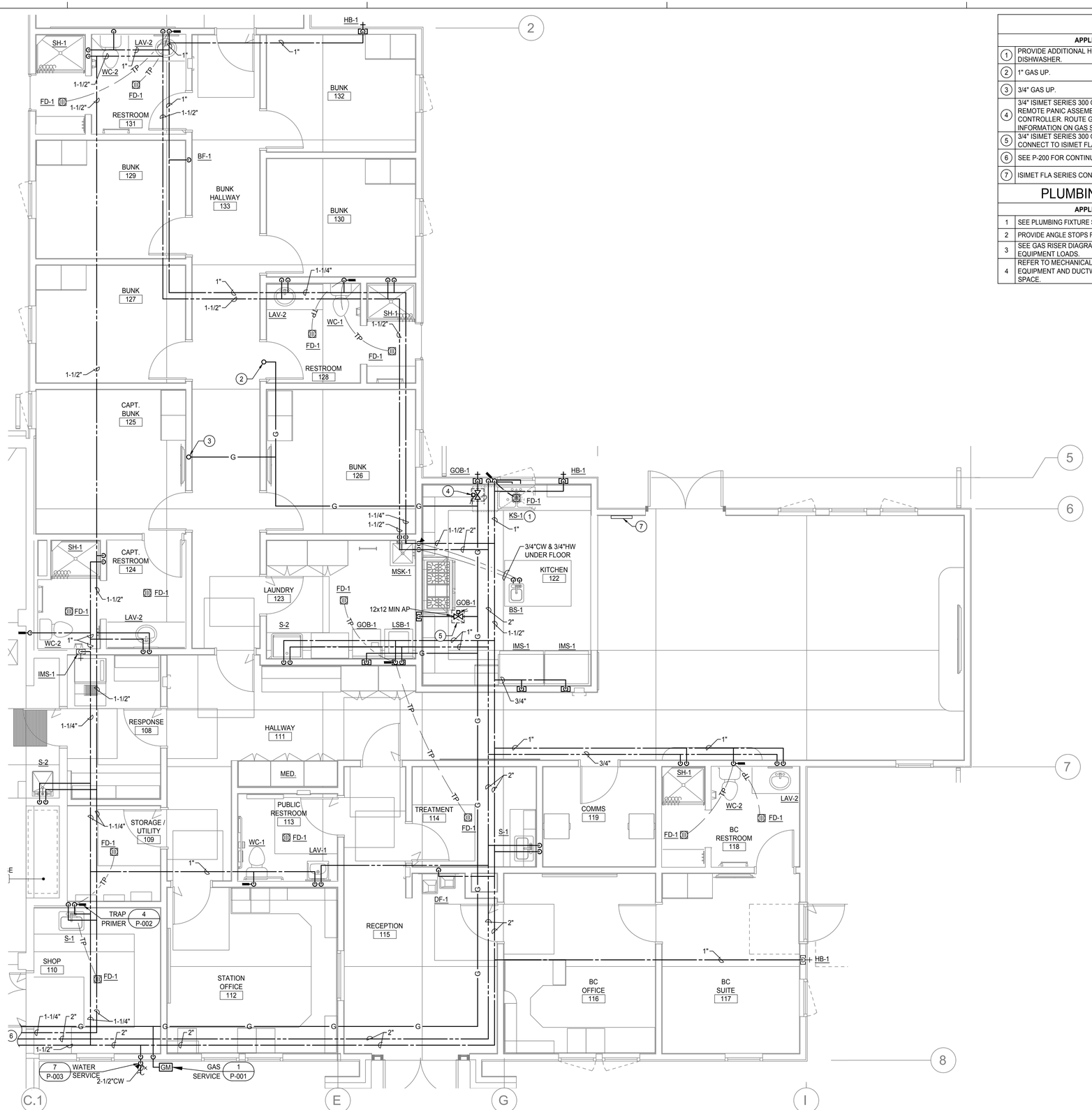
ENLARGED FLOOR PLAN - WASTE & VENT

NO.	REVISION	DATE
1	PLAN CHECK RESPONSE 1	12/18/25
2	PLAN CHECK RESPONSE 2	02/27/26

PROJECT MANAGER: DS
DRAWN BY: EF
CHECKED BY: BS
DATE: May 4, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: P-201

City of Madera – Community Development Department
Plans Approved Under the 2022 California Building Code and Fire Safe Regulations
Date 05/04/2026
Codes and Ordinances, not valid without signature

S:\ENG Projects\Riverstone FS\Engineering\Riverstone Fire Station Plumbing Plans.dwg CHerlihy778E Apr 30,2026-4:01pm



KEY NOTES

APPLICABLE TO THIS SHEET ONLY

1	PROVIDE ADDITIONAL HOT WATER STOP BELOW SINK FOR CONNECTION TO DISHWASHER.
2	1" GAS UP.
3	3/4" GAS UP.
4	3/4" ISIMET SERIES 300 GAS SOLENOID VALVE FOR GAS SHUT OFF. PROVIDE REMOTE PANIC ASSEMBLY. CONNECT TO ISIMET FLA SERIES UTILITY CONTROLLER. ROUTE GAS PIPING TO BBQ. SEE DETAIL 10/P-003 FOR MORE INFORMATION ON GAS SLEEVE PIPING.
5	3/4" ISIMET SERIES 300 GAS SOLENOID VALVE FOR GAS SHUT OFF. CONNECT TO ISIMET FLA SERIES UTILITY CONTROLLER.
6	SEE P-200 FOR CONTINUATION.
7	ISIMET FLA SERIES CONTROLLER.

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	SEE GAS RISER DIAGRAM ON SHEET P-001 FOR SIZING, CALCULATIONS AND EQUIPMENT LOADS.
4	REFER TO MECHANICAL PLANS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND DUCTWORK. COORDINATE ALL WORK TO FIT IN AVAILABLE SPACE.

ENLARGED FLOOR PLAN - WATER & GAS

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

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMISSION OR DISTRIBUTION OF THESE DOCUMENTS TO MEET OFFICIAL REGULATORY REQUIREMENTS OR FOR OTHER PURPOSES IN CONNECTION WITH THE PROJECT IS NOT TO BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2021
RRM IS A CALIFORNIA CORPORATION

REGISTERED PROFESSIONAL ENGINEER
JONATHAN P. STARRETT
M 34068
EXP. 6/30/26
MECHANICAL
STATE OF CALIFORNIA

CONSULTANT

3C Engineering
An EMCOR Company
(916) 940-1343
1110 Palm St, San Luis Obispo, CA, 93401

BY Mesa Energy Systems, Inc., ALL COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS RESERVE THIS DOCUMENT AS AN ORIGINAL AND UNPUBLISHED WORK PRODUCT. THIS WORK SHALL NOT BE DUPLICATED, COPIED, DISCLOSED OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH IT AS BEEN PREPARED, NOR SHALL IT BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF VISUAL CONTACT. THIS DOCUMENT SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

BID DOCUMENTS

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

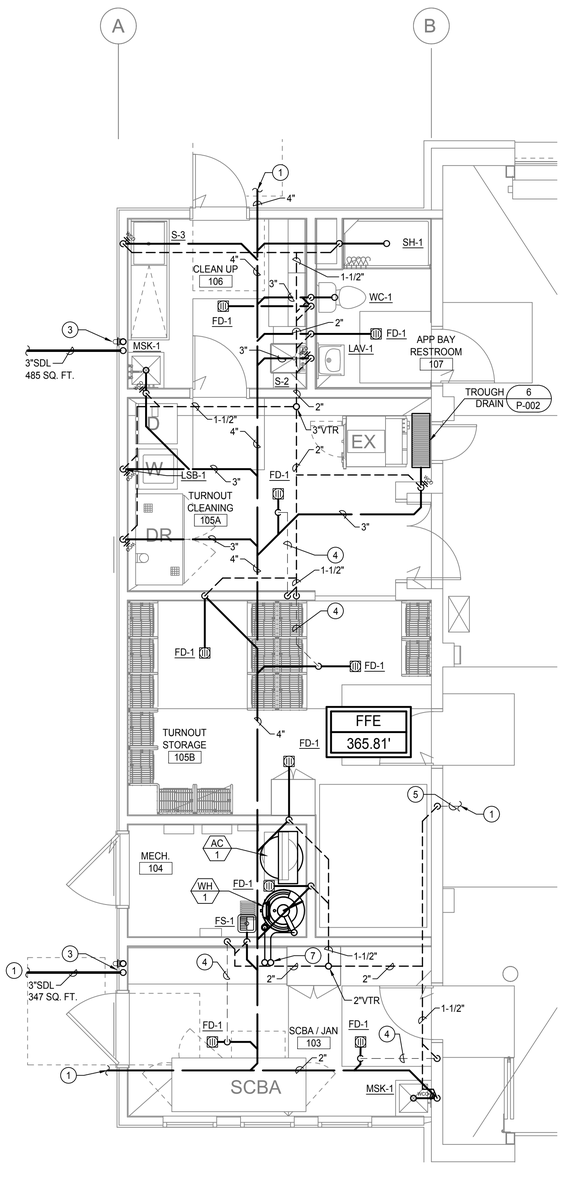
ENLARGED FLOOR PLAN - WATER & GAS

NO.	REVISION	DATE
1	PLAN CHECK RESPONSE 1	12/18/25
2	PLAN CHECK RESPONSE 2	02/27/26

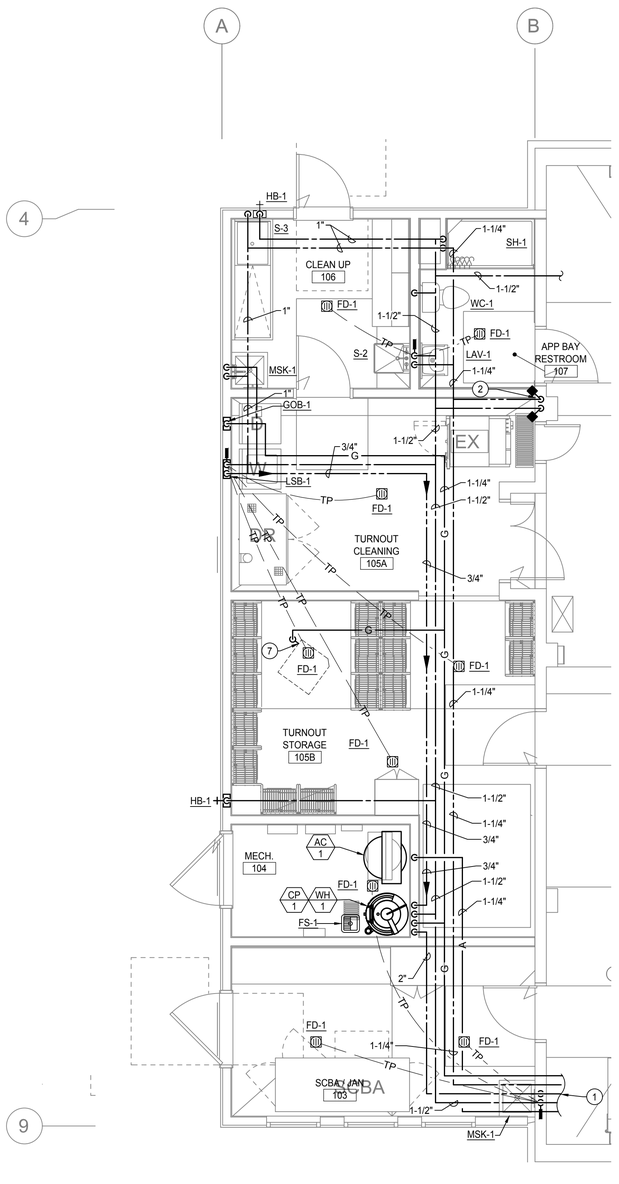
PROJECT MANAGER: DS
DRAWN BY: EF
CHECKED BY: BS
DATE: MAY 4, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: P-202

County of Madera – CSA Building and Fire Safety Division
Plans Approved Date 05/04/2026
Under the 2022 California Building Code
Codes and Ordinances, not valid without signature

S:\ENG Projects\Riverstone FS\Engineering\Riverstone Fire Station Plumbing Plans.dwg CHerlihy778E Apr 30,2026-4:01pm



2 PLUMBING ENLARGED WASTE & VENT



1 PLUMBING ENLARGED WATER & GAS

KEY NOTES

APPLICABLE TO THIS SHEET ONLY

1	SEE SHEET P-200 FOR CONTINUATION OF PIPING.
2	1" HOT AND COLD WATER DOWN TO EXTRACTOR. SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR PROPER CONNECTIONS AND MANIFOLD SYSTEM. PROVIDE WATER HAMMER ARRESTORS.
3	3"SDL AND SDO FROM ABOVE. TERMINATE SDO TO GRADE. SEE DETAIL 8/P-002 FOR MORE INFORMATION. SEE CIVIL FOR CONTINUATION OF SDL.
4	VENT BELOW FLOOR. SEE PLUMBING FIXTURE SCHEDULE FOR SIZING.
5	2" VENT BELOW FLOOR.
6	1" GAS CONNECTION TO MECHANICAL EQUIPMENT. SEE DETAIL 11/P-003 FOR MORE INFORMATION.
7	3"Ø FLUE AND 3"Ø CA INTAKE UP TO CONCENTRIC TERMINATION JUST BELOW ROOF.

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	SEE GAS RISER DIAGRAM ON SHEET P-001 FOR SIZING, CALCULATIONS AND EQUIPMENT LOADS.
4	SLOPE SANITARY WASTE PIPING MIN 2% IN DIRECTION OF FLOW.
5	SLOPE VENT PIPING UP TOWARDS VTR MIN 1%.
6	SLOPE CONDENSATE PIPING MIN 1% IN DIRECTION OF FLOW.
7	ALL ROOMS WITH FLOOR DRAINAGE MUST HAVE FLOORS SLOPED TOWARD DRAIN. SEE ARCHITECTURAL PLANS FOR REQUIRED SLOPE.
8	PROVIDE CLEANOUTS IN ALL LOCATIONS SHOWN. COORDINATE ALL WALL CLEANOUTS WITH PLUMBING FIXTURES, CASEWORK, AND ARCHITECTURAL ELEVATIONS. SEE DETAIL 2/P-002 FOR SIZING AND CLEARANCES REQUIRED.
9	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.
10	HORIZONTAL RAIN WATER PIPING HAS BEEN SIZED PER 2019 CPC TABLE 1103.2 USING A RAINFALL RATE OF 2"(IN/H) & 1/4"/FT SLOPE
11	REFER TO MECHANICAL PLANS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND DUCTWORK. COORDINATE ALL WORK TO FIT IN AVAILABLE SPACE.

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THIS DOCUMENT FOR PLAN CHECK OR PERMIT SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.

RRM DESIGN GROUP COPYRIGHT 2021
RRM IS A CALIFORNIA CORPORATION

REGISTERED PROFESSIONAL ENGINEER
JONATHAN P. STARRETT
M 34068
EXP. 6/30/26
MECHANICAL
STATE OF CALIFORNIA

CONSULTANT

3C Engineering
An EMCOR Company
(805) 540-1343
1533 Palm St, San Luis Obispo, CA, 93401

BY Mesa Energy Systems, Inc., ALL COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS RESERVE THIS DOCUMENT AS AN ORIGINAL AND UNPUBLISHED WORK PRODUCT. THIS WORK SHALL NOT BE DUPLICATED, COPIED, DISCLOSED OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH IT AS BEEN PREPARED, NOR SHALL IT BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF VISUAL CONTACT. THIS DOCUMENT SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

ENLARGED FLOOR PLANS

NO.	REVISION	DATE
1	PLAN CHECK RESPONSE 1	12/18/25
2	PLAN CHECK RESPONSE 2	02/27/26

PROJECT MANAGER
DS

DRAWN BY EF | **CHECKED BY** BS

DATE
Date: 05/04/2026
MAY 4, 2026

PROJECT NUMBER
2471-01-CI21

SHEET
P-203

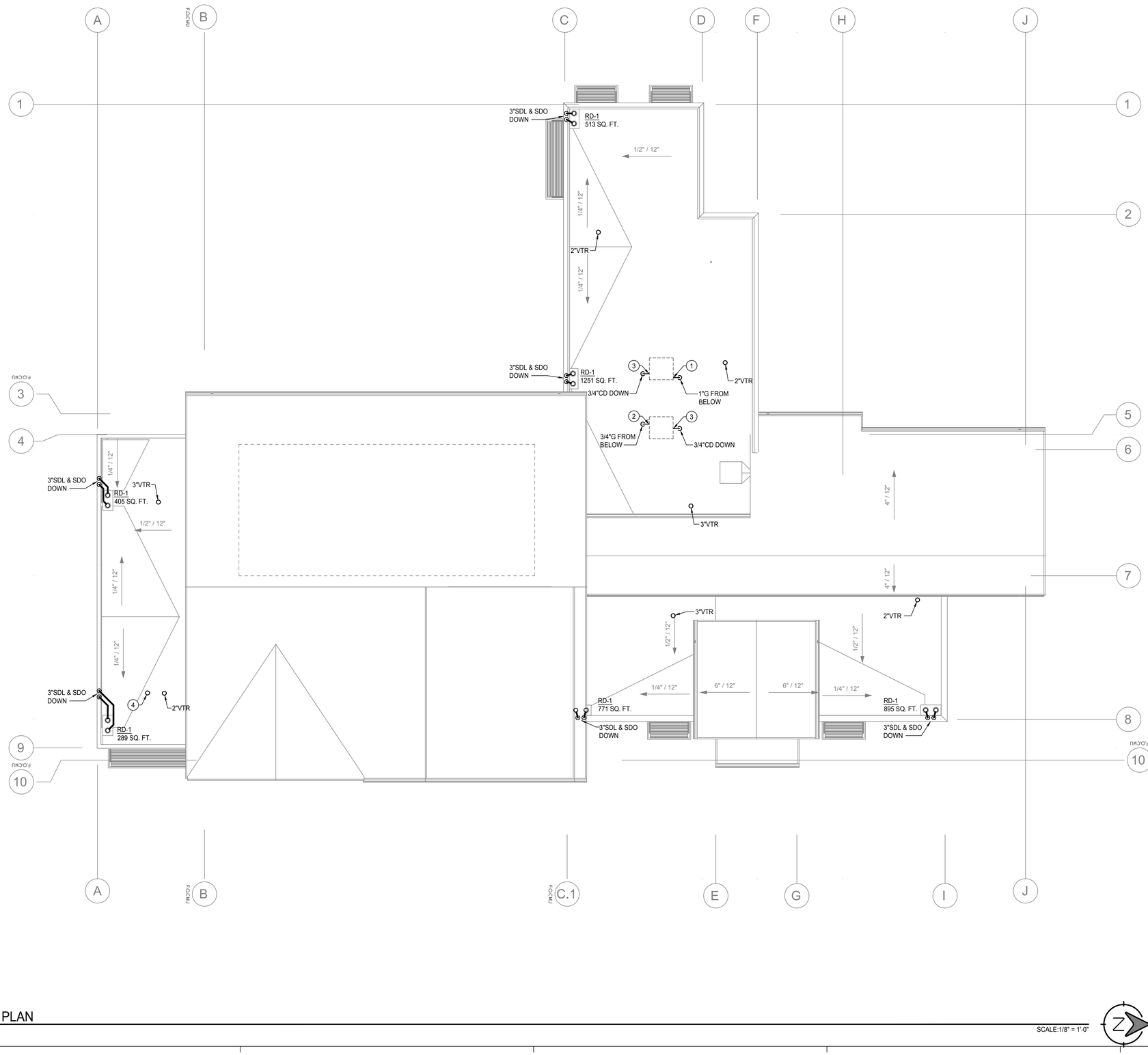
Approved Plans
County of Madera – Community Development Department
Building Division
Valid for the 2022 California Building Code
Date: 05/04/2026
Conditions and Disclaimers on cover sheet apply without signature

BID DOCUMENTS

ENLARGED FLOOR PLANS

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

S:\ENG Projects\Riverstone FS\Engineering\Riverstone Fire Station Plumbing Plans.dwg CHerlihy778E, Apr 30,2026-4:01pm



KEY NOTES

APPLICABLE TO THIS SHEET ONLY

1	1" GAS CONNECTION TO MECHANICAL EQUIPMENT. SEE DETAIL 6/P-003 FOR MORE INFORMATION.
2	3/4" GAS CONNECTION TO MECHANICAL EQUIPMENT. SEE DETAIL 6/P-003 FOR MORE INFORMATION.
3	3/4" CONDENSATE CONNECTION TO MECHANICAL EQUIPMENT. SEE DETAIL 9/P-003 FOR MORE INFORMATION.
4	WH-1 CONCENTRIC TERMINATION. SEE DETAIL 2/P-001 FOR MORE INFORMATION.

PLUMBING GENERAL NOTES

APPLICABLE TO THIS SHEET ONLY

1	SEE PLUMBING FIXTURE SCHEDULE FOR BRANCH PIPE SIZING.
2	SLOPE VENT PIPING UP TOWARDS VTR MIN 1%.
3	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.
4	ROOF DRAINS HAVE BEEN SIZED PER CPC TABLE 1103.1 USING A RAINFALL RATE OF 2"(IN/H) PER 2019 CPC TABLE D101.1.
5	HORIZONTAL RAIN WATER PIPING HAS BEEN SIZED PER 2019 CPC TABLE 1103.2 USING A RAINFALL RATE OF 2"(IN/H) & 1/4"/FT SLOPE
6	REFER TO MECHANICAL PLANS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND DUCTWORK. COORDINATE ALL WORK TO FIT IN AVAILABLE SPACE.

ROOF PLAN

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

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SHOULD ANY PART OF THIS AGREEMENT BE VOID, IT SHALL NOTBE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2021
RRM IS A CALIFORNIA CORPORATION

REGISTERED PROFESSIONAL ENGINEER
JONATHAN P. STARRETT
M 34068
EXP. 6/30/26
MECHANICAL
STATE OF CALIFORNIA

CONSULTANT

3C Engineering
An EMCOR Company
(805) 540-1343
1533 Palm St, San Luis Obispo, CA, 93401

BY Mesa Energy Systems, Inc., ALL COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS RESERVE THIS DOCUMENT AS AN ORIGINAL AND UNPUBLISHED WORK PRODUCT. THIS WORK SHALL NOT BE DUPLICATED, COPIED, DISCLOSED OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH IT AS BEEN PREPARED, NOR SHALL IT BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF VISUAL CONTACT. THIS DOCUMENT SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

ROOF PLAN

NO.	REVISION	DATE
1	PLAN CHECK RESPONSE 1	12/18/25
2	PLAN CHECK RESPONSE 2	02/27/26

PROJECT MANAGER
DS

DRAWN BY EF | **CHECKED BY** BS

DATE
Date: 05/04/2026
May 4, 2026

PROJECT NUMBER
2471-01-CI21

SHEET
P-300

County of Madera – CEG Building and Fire Safety Division
Approved under the 2022 California Building Code and Local Ordinances, not to be used without signature

BID DOCUMENTS

S:\ENG Projects\Riverstone FS\Engineering\Riverstone Fire Station Plumbing Plans.dwg CHeithly7788E_Apr 30,2026-4:01pm

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. ALL WORK SHALL COMPLY WITH 2017 NATIONAL ELECTRICAL CODE (NEC) AS AMENDED BY THE 2019 CALIFORNIA ELECTRICAL CODE (CEC), 2019 CALIFORNIA BUILDING CODE (CBC), 2019 CALIFORNIA ENERGY CODE (CEnC), CALIFORNIA FIRE CODE (CFC), 2019 CALIFORNIA MECHANICAL CODE (CMC), 2019 CALIFORNIA GREEN BUILDING STANDARDS (CGBC), CITY OF LONG BEACH MUNICIPAL CODE AND ADOPTED ORDINANCES.

   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]

   CONTROLS AND OPERATING MECHANISMS SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 11B-309.

   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).

5. EQUIPMENT ANCHORAGE NOTE
   ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE ANCHORED OR BRACED TO MEET THE HORIZONTAL AND VERTICAL FORCES PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26, AND ASCE 7-15 CHAPTERS 13, 26, AND 30 AND 2019 CEC 110.3(B)

   THE ATTACHMENT OF THE FOLLOWING ITEMS SHALL BE DESIGNED TO RESIST THE FORCES PRESCRIBED ABOVE, BUT NEED NOT BE DETAILED ON THE PLANS PER 2019 CBC SECTION 1616A.1.18:

   A. FURNITURE(EXCEPT STORAGE CABINETS AS NOTED IN 2019 CBC TABLE 13.5-1)
   B. TEMPORARY OR MOVABLE EQUIPMENT WITH EXCEPTIONS NOTED IN 2019 CBC SECTION 1616A.1.18 ITEM 2.
   C. ARCHITECTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS IN SEISMIC DESIGN CATEGORIES D, E, OR F THAT MEET ALL OF THE CRITERIA LISTED IN 2019 SECTION 1616A.1.18 ITEM 3.
   D. EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUPPORTED BY VIBRATION ISOLATORS.
   E. EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL

   FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL/ELECTRICAL ENGINEER.

   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 DEFINE IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

6. THE ISSUANCE OF A PERMIT SHALL NOT PREVENT THE BUILDING OFFICIAL FROM REQUIRING THE CORRECTION OF ERROS ON THESE PLANS OR FROM PREVENTING ANY VIOLATION OF THE CODES ADOPTED BY THE CITY, RELEVANT LAWS, ORDINANCES, RULES AND/OR REGULATIONS.

RATED WALLS/ASSEMBLIES NOTES

1. IN FIRE-RESISTANCE RATED WALLS, DETAIL THROUGH PENETRATIONS AND MEMBRANE PENETRATION PER CBC 714.4 AS NOTED BELOW:
   A. STEEL, FERROUS OR COPPER PIPES MAY PENETRATE FIRE-RESISTANCE RATED WALLS, PROVIDED THE OPENING IS PROTECTED AS FOLLOWS: (CBC 714.4.1)
      i. ITEM PENETRATING CONCRETE OR MASONRY WALLS IS A MAXIMUM 6 INCHES NOMINAL DIAMETER AND THE AREA OF THE OPENING THROUGH THE WALL DOES NOT EXCEED 144 SQUARE INCHES, CONCRETE, GROUT OR MORTAR IS PERMITTED WHERE IT IS INSTALLED THE FULL THICKNESS OF THE WALL OR THE THICKNESS REQUIRED TO MAINTAIN THE F IRE-RESISTANCE RATING; OR
      ii. WHEN THE ANNULAR SPACE IS PROTECTED WITH MATERIAL THAT MEETS ASTM E 119 OR UL 263.
   B. PENETRATIONS SHALL BE FIRE-STOPPED BY A SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479, AND SHALL HAVE AN F RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL PENETRATED. (CBC 714.4.1.2)
   C. MEMBRANE PENETRATIONS OF MAXIMUM 2-HOUR FIRE-RESISTANCE RATED WALLS BY STEEL ELECTRICAL BOXES ARE PERMITTED, PROVIDED THAT EACH DOES NOT ESCEED 16 SQUARE INCHES IN AREA AND THE TOTAL AREA OF SUCH OPENING DOES NOT EXCEED 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF WALL AREA, AND THE SPACE BETWEEN THE WALL MEMBRANE AND THE BOX DOES NOT EXCEED $\frac{1}{8}$ INCH. ADDITIONALLY, OUTLET BOXES ON OPPOSITE SIDES OF THE WALL SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24 INCHES (CBC 714.4.2 EXCEPTION 1).
   D. MEMBRANE PENETRATIONS BY LISTED ELECTRICAL BOXES OF ANY MATERIAL ARE PERMITTED, PROVIDED SUCH BOXES HAVE BEEN TESTED FOR USE IN FIRE-RESISTANCE RATED ASSEMBLIES, AND THE SPACE BETWEEN THE WALL MEMBRANE AND THE BOX DOES NOT EXCEED 1/8 INCH UNLESS LISTED OTHERWISE. ADDITIONALLY, OUTLET BOXES ON OPPOSED SIDES OF THE WALL SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24 INCHES. (CBC 714.4.2 EXCEPTION 2)
   E. A FIRE SPRINKLER SHALL BE PERMITTED TO BE UNPROTECTED PROVIDED SUCH SPACE IS COVERED BY A METAL ESCUTCHEON PLATE. (CBC 714.4.2 EXCEPTION 5)
   F. WHERE WALLS ARE PENETRATED BY OTHER MATERIALS OR OPENINGS LARGER THAN THOSE MENTIONED ABOVE, THEY MUST BE QUALIFIED BY TEST IN ACCORDANCE WITH CBC 714.4.2 EXCEPTION 2.

2. IN FIRE-RESISTANCE HORIZONTAL ASSEMBLIES , DETAIL THROUGH PENETRATIONS AND MEMBRANE PENETRATION PER CBC 714.5 AS NOTED BELOW:
   A. STEEL, FERROUS OR COPPER CONDUITS MAY PENETRATE FIRE-RESISTANCE RATED FLOOR ASSEMBLY WHEN THE ANNULAR SPACE IS PROTECTED WITH MATERIAL THAT MEETS ASTM E 119 OR UL 263 (CBC 714.5.1 EXCEPTION 1)
   B. PENETRATING ITEMS, AS NOTED ABOVE, WITH A MAXIMUM 6 INCHES NOMINAL DIAMETER SHALL NOT BE LIMITED TO THE PENETRATION OF A SINGLE FIRE-RESISTANCE RATED FLOOR ASSEMBLY, PROVIDED THAT THE AREA OF THE OPENINGS DOES NOT EXCEED 144 SQUARE INCHES IN ANY 100 SQUARE FEET OF FLOOR AREA. (CBC 714.4.1.1 EXCEPTION 1)
   C. PENETRATIONS SHALL BE FIRE-STOPPED BY A SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479. THE SYSTEM SHALL HAVE AN F RATING AND T RATING OF NOT LESS THAN 1-HOUR BUT NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE FLOOR PENETRATED (CBC 714.5.1)
   D. MEMBRANE PENETRATIONS BY LISTED ELECTRICAL OUTLET BOXES ARE PERMITTED PROVIDED SUCH BOXES HAVE BEEN TESTED FOR USE IN FIRE-RESISTANCE RATED ASSEMBLIES, AND THE SPACE BETWEEN THE CEILING MEMBRANE AND THE BOX DOES NOT EXCEED 1/8 INCHESUNLESS LISTED OTHERWISE. (CBC 714.5.2 EXCEPTION 4)
   E. A FIRE SPRINKLER SHALL BE PERMITTED TO BE UNPROTECTED PROVIDED SUCH SPACE IS COVERED BY A METAL ESCUTCHEON PLATE. (CBC 714.5.2 EXCEPTION 5)

3. JOINTS INSTALLED IN OR BETWEEN FIRE-RESISTANCE RATED WALL, FLOOR OR FLOOR/CEILING ASSEMBLIES AND ROOFS OR ROOF/CEILING ASSEMBLIES SHALL BE PROTECTED AN APPROVED FIRE-RESISTANT JOINT SYSTEM WITH A FIRE-RESISTANCE RATING NOT LESS THAN THAT OF THE ASSEMBLY IN WHICH IT IS INSTALLED. PROVIDE DETAILS (CBC 7145.1)

4. FIRE DOORS AND FIRE-PROTECTION RATED GLAZING SHALL BEAR LABELS AS REQURIED BY CBC 716.2.9 AND 716.3.5.

5. FIRE DAMPERS SHALL BE THE MINIMUM FIRE PROTECTION RATING SPECIFIED IN CBC TABLE 717.3.2.1 FOR THE TYPE OF PENETRATION (CBC 717.3.2.1)

6. PROVIDE DAMPERS, SMOKE DAMPERS, COMBINATION FIRE/SMOKE DAMPERS AND CEILING RADIATION DAMPERS SHALL BE PROVIDE AS PRESCRIBED IN CBC 717.

SMOKE ALARM AND CARBON MONOXIDE SYSTEMS NOTES

1. SINGLE OR MULTIPLE SMOKE ALARMS SHALL BE INSTALLED AND MAINTAINED IN GROUPS R-3, REGARDLESS OF OCCUPANT LOAD AT ALL OF THE FOLLOWING LOCATIONS PER CRC 2016 R314.

   A. IN EACH SLEEPING ROOM
   B. OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS.
   C. SMOKE ALARMS SHALL BE INSTALLED NO LESS THAN 3 FEET HORIZONTALLY FROM THE DOOR OR OPENING OF A BATHROOM THAT CONTAINS A BATHTUB OR SHOWER UNLESS THIS WOULD PREVENT PLACEMENT OF A SMAKE ALARM REQUIRED BY SECTION R14.3
   D. SMOKE ALARMS SHALL BE INSTALLED ACCORDING TO CBC 907.2.11.8 AND CRC R314.3.3.

2. THE SMOKE ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL UNIT. THE ALARM SHALL BE CLEARLY AUDIBLE IN ALL BEDROOMS OVER BACKGROUND NOISE LEVELS WITH ALL INTERVENING DOORS CLOSED (CBC 907.2.11.5)

3. SMOKE ALARMS SHALL BE TESTED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. SMOKE ALARMS THAT NO LONGER FUNCTION SHALL BE REPLACED.

4. CARBON MONOXIDE ALARMS SHALL BE INSTALLED IN NEW DWELLING UNITS WHICH HAVE FUEL-BURNING APPLIANCES INSTALLED (CBC 915.1.2)

5. CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING WHERE SUCH WIRING IS SERVED FROM A COMMERCIAL SOURCE AND SHALL BE EQUIPPED WITH A BATTERY BACKUP. WIRING SHALL BE PERMANENT AND WITHOUT A DISCONNECTING SWITCH OTHER THAN A REQUIRED FOR OVERCURRENT PROTECTION (CBC 915.4.1)

6. REQUIRED CARBON MONOXIDE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS (CBC 915.2)

   A. OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS.

7. INTERCONNECTION: WHERE MORE THAN ONE CARBON MONOXIDE ALARM IS REQUIRED TO BE INSTALLED WITHIN A DWELLING UNIT OR WITHIN A SLEEPING UNIT IN GROUP R OCCUPANCIES, THE ALARMS SHALL BE INTERCONNECTED IN A MANNER THAT ACTIVATION OF ONE ALARM SHALL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL UNIT (CBC 915.4.4)

LIGHTING FLOOR PLAN

A. NIGHT LIGHT "NL" DESIGNATED LUMINAIRES IN INTERIOR LOCATIONS SHALL HAVE ONE BALLAST 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.

POWER FLOOR PLAN

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 NEC ARTICLE 430 PART C AND NOT SHOWN ON PLAN OR PROVIDED INTEGRAL WITH EQUIPMENT, PROVIDE AND INSTALL THERMAL OVERLOAD PROTECTION FOR ALL MOTORS.

D. SPARE CONDUIT FOR RECESSED PANELS: PROVIDE (1) 3/4" SPARE CONDUIT STUB UP TO ACCESSIBLE ABOVE CEILING SPACE AND/OR ACCESSIBLE SPACE BELOW FOR EVERY (3) SPARE BREAKER SPACES AS INDICATED ON PANEL SCHEDULES.

E. DEVICE LOCATIONS SHOWN ARE SCHEMATIC AND APPROXIMATE. EXACT LOCATIONS SHALL BE FIELD VERIFIED DURING ROUGH-IN WITH ARCHITECTURAL ELEVATIONS, CASEWORK SHOP DRAWINGS, FURNITURE, ETC. AND SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT WITH OTHER EQUIPMENT.

F. ELECTRICAL AND COMMUNICATIONS OUTLETS SHOWN IN THE SAME LOCATION, SHALL BE MOUNTED ON OPPOSITE SIDES OF THE SAME STUD. COORDINATE BETWEEN ELECTRICAL AND COMMUNICATIONS PLANS.

G. ALL NEW OUTLETS MUST BE TAMPER PROOF.

H. ALL 15 AND 20AMPERE RECEPTACLES FOR BOTH DAMP AND WET LOCATIONS REQUIRED TO BE LISTED WEATHER-RESISTANT (WR) TYPE PER CEC 406.9.

TYPICAL DWELLING UNIT NOTES

1. REFER TO ARCHITECTURAL CODE SHEET FOR FIXTURE TYPE R3 OCCUPANCY SPACES.

2. ARC-FAULT CIRCUIT -INTERRUPTER PROTECTION SHALL BE PROVIDED AS REQUIRED IN 210.12 (A), (B), AND (C). THE ARC-FAULT CIRCUIT INTERRUPTER SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION.

   ALL 120 VOLT, SINGLE PHASE 15 AND 20AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSET, HALLWAYS, LAUNDRY AREAS OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT (CEC 210-12(A).

3. ALL ELECTRICAL OUTLETS INSTALLED IN BATHROOMS, GARAGES, BASEMENTS, CRAWL SPACES, OUTDOORS, KITCHEN COUNTERS, AND AT WET BAR SINKS SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION IN COMPLIANCE WITH NEC Art. 210-8, CONSISTING OF 125 VOLT, SINGLE-PHASE, 15- AND 20-AMPERE RECEPTACLES.

4. ALL RECEPTACLE APPLIANCE EQUIPMENT SHOWN ON PLANS MUST BE COORDINATED WITH ARCHITECT ELEVATION AND MANUFACTURER'S REQUIREMENTS PRIOR TO ROUGH-IN.

5. EACH MULTI-WIRE BRANCH SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE BRANCH CIRCUIT ORIGINATES (ARTICLE CEC 210.4)

6. ALL BATHROOM RECEPTACLE OUTLETS SHALL BE SUPPLIED BY A MINIMUM OF ONE 20-AMPERE BRANCH CIRCUIT, SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS. THIS DEDICATED CIRCUIT MAY SERVICE MORE THAN ONE BATHROOM. NEC ART. 210-52(d). RECEPTACLES SHALL BE ADJACENT TO AND WITHIN 36" OF THE OUTSIDE EDGE OF EACH BASIN.

7. ALL 125V, 15AMPS AND 20AMP RECEPTACLE IN DWELLING UNITS SHALL BE TAMPER-RESISTANT PER CEC 406.12.

8. RECESSED LUMINAIRES INSTALLED IN AREAS TO RECEIVE INSULATION SHALL BE "IC" LUMINARIES AND ARE CERTIFIED AND LABELED AS AIRTIGHT TO THE STANDARDS PRESCRIBED BY THE RESIDENTIAL ENERGY CODE.

9. RECESSED LIGHT FIXTURES INSTALLED IN A FIRE RATED ASSEMBLY SHALL BE INSTALLED PER THE APPROVED LISTING OR PROTECTED BY AN APPROVED METHOD.

10. BATHROOM RECEPTACLES MUST BE ON A 20 AMP, CIRCUIT (OR CIRCUITS) WITH NO OTHER OUTLETS.

11. CEILING-SUSPENDED (PADDLE) FANS (IF SHOWN) SHALL BE SUPPORTED INDEPENDENTLY OF AN OUTLET BOX OR BY LISTED OUTLET BOX OR OUTLET BOX SYSTEMS IDENTIFIED FOR THE USE AND INSTALLED IN ACCORDANCE WITH CEC 314-27(D), CEC 422-18. PROVIDE BOX FOR FUTURE PADDLE FAN IN BEDROOMS IF NOT SHOWN ON PLANS.

12. ALL LUMINAIRES AND LAMPHOLDERS SHALL BE LISTED CEC 410-6.

13. HIGH EFFICACY LUMINAIRES OTHER THAN OUTDOOR HID LIGHTING CONTAIN ONLY HIGH EFFICACY LAMPS AS OUTLINED IN TABLE 150-C OF THE RESIDENTIAL ENERGY CODE AND NOT CONTAIN A MEDIUM SCREW BASE SOCKET.

14. LIGHTS IN BATHROOMS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS MUST BE HIGH EFFICACY, CONTROLLED BY A DIMMER OR CONTROLLED BY A MANUAL-ON OCCUPANT SENSOR.

15. PROVIDE A 120V RECEPTACLE AND LIGHT NEAR THE FAU WITH A LIGHT SWITCH LOCATED IN THE ATTIC ACCESS. (IF REQUIRED)

16. EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTOR AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES. CEC 210 4(B)

17. STEEL ELECTRICAL BOXES LESS THAN OR EQUAL TO 16 SQUARE INCHES CAN PENETRATE MEMBRANES OF WALLS WITH UP TO A 2 HOUR RATING PROVIDED THEY ARE SEPARATED FROM SUCH PENETRATIONS ON THE OPPOSITE SIDE OF THE WALL BY EITHER 24 INCHES, A DISTANCE EQUAL TO THE DEPTH OF THE WALL IF FILLED WITH CELLULOSE LOOSEFILL/ROCKWOOL/MINERAL WOOL, SOLID FIRE BLOCKING, OR LISTED PUTTY PADS (CBC 714.3.2)

18. PENETRATIONS OF FIRE-RESISTIVE WALLS, FLOOR-CEILINGS SHALL BE PROTECTED AS REQUIRED IN CBC SECTIONS 714.3 & 714.4.

19. IN BATHROOMS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS AT LEAST ONE LUMINAIRE IN EACH OF THESE SPACES SHALL BE CONTROLLED BY A VACANCY SENSOR. (CEC 150.0)

ROOF PLAN NOTES

A. PROVIDE SEALTITE POWER & CONTROL CONNECTIONS TO ALL AC UNITS.

B. ALL EQUIPMENT SHOWN ABOVE ROOF IS NEMA 3R.

C. VERIFY EXACT EQUIPMENT LOCATIONS AND POINTS OF CONNECTION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

D. CONDUIT SHOWN IS ROUTED IN CEILING SPACE BELOW ROOF DECK.

E. NO ROOF MOUNT CONDUIT IS ALLOWED UNLESS OTHERWISE NOTED.

F. FUSE DISCONNECT SWITCHES PER EQUIPMENT NAMEPLATE RATING.

G. ALL ROOF PENETRATIONS SHALL BE MADE WITH ROOF JACKS, SEAL ALL PENETRATIONS WITH MASTIC.

FIRE SPRINKLER MONITORING ALARM SYSTEM (DEFERRED APPROVAL)

FIRE SPRINKLER MONITORING ALARM SYSTEM IS A DEFERRED APPROVAL AND DEVICES SHOWN ON PLANS ARE FOR REFERENCE ONLY. FULL DESIGN-BUILD SHOP DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR AND BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR REVIEW, UPON FAVORABLE REVIEW BY THE ARCHITECT AND ENGINEER, SHOP DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE LOCAL FIRE AUTHORITY FOR APPROVAL. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BEGIN UNTIL THE LOCAL FIRE AUTHORITY HAS APPROVED THE SHOP DRAWINGS

1. PROVIDE ALL WORK AND MATERIAL REQUIRED FOR A COMPLETE AND OPERATING FIRE ALARM SYSTEM. WORK SHALL INCLUDE (BUT NOT BE LIMITED TO):

   A. SHOP DRAWINGS
   B. SUBMITTAL FOR APPROVAL
   C. COMPLETE INSTALLATION AND TESTING
   D. SYSTEM TRAINING FOR OWNER'S REPRESENTATIVE
   E. WARRANTY

2. SUBMIT A SEPARATE SET OF DETAILED FIRE ALARM PLANS, SPECIFICATIONS AND ENGINEERING CALCULATIONS INCLUDING BUT NOT NECESSARILY LIMITED TO:

   A. CSFM LISTING #'S AND MANUFACTURER MODEL #'S FOR EVERY SYSTEM COMPONENT WHICH IS TO BE INTERCONNECTED AS A PART OF THIS PROJECT.
   B. SINGLE LINE, RISER AND 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. LIST OF PROPOSED ZONES FOR ALL INITIATING DEVICES.
   E. MATRIX OF SYSTEM OPERATION.
   F. INFORMATION AS REQUIRED TO DEMONSTRATE COMPLIANCE WITH APPLICABLE CODE(S) AND GAIN APPROVAL OF AUTHORITY(IES) HAVING JURISDICTION.

   FIRE ALARM SYSTEM INSTALLATION SHALL NOT BEGIN UNTIL SEPARATE PERMIT HAS BEEN OBTAINED AND ALL OF THE ABOVE HAS BEEN ACCEPTED AND SIGNED BY THE AUTHORITY(IES) HAVING JURISDICTION AND THE ARCHITECT. AFTER CONSTRUCTION, PROVIDE ACCURATE FIELD RECORD DRAWINGS TO OWNER.

3. AS A MINIMUM, UNLESS OTHERWISE NOTED, FIRE ALARM CONTROL PANEL SHALL BE PROVIDED WITH BATTERY BACKUP, INITIATION AND NOTIFICATION CIRCUITS AS REQUIRED WITH PROVISIONS FOR FUTURE EXPANSION. PROVIDE WITH DIALER (DACT) AND CONNECT TO COMMUNICATIONS SYSTEM WITH (2) DEDICATED VOICE LINES AS REQUIRED TO SEND SEPARATE AND DISTINCT SIGNALS (AS REQUIRED BY THE FIRE DEPARTMENT) TO AN APPROVED CENTRAL STATION. FIRE SPRINKLER RISER WATER FLOW AND / OR VALVE TAMPER SWITCHES SHALL BE PROVIDED AND INSTALLED BY THE SPRINKLER SYSTEM CONTRACTOR, AND WIRED BACK TO THE FACP BY THE FIRE ALARM CONTRACTOR. COORDINATE FOR PROPER VOLTAGE. ALL FIRE ALARM COMPONENTS SHALL BE CALIFORNIA STATE FIRE MARSHAL LISTED.

4. DUCT SMOKE DETECTORS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. DETECTOR POWER AND SUPERVISORY WIRING AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR. MECHANICAL UNIT CONTROL (SHUTDOWN UPON DETECTOR ALARM) WIRING AND CONNECTIONS SHALL BE MADE BY MECHANICAL CONTRACTOR.

5. APPROVED NOTIFICATION APPLIANCES FOR THE HEARING IMPAIRED SHALL BE INSTALLED IN ACCORDANCE WITH NFPA REQUIREMENTS IN THE FOLLOWING AREA: RESTROOMS, CORRIDORS, OCCUPIED ROOMS WHERE AMBIENT NOISE IMPAIRS HEARING OF THE FIRE ALARM, LOBBIES, MEETING ROOMS, AND OTHER AREA FOR COMMON USE.

CONDUIT SYSTEMS NOTES

CONDUIT SYSTEMS USED ON THIS PROJECT SHALL BE AS FOLLOWS

1. PVC SCHEDULE 40 - 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.
4. FLEXIBLE STEEL CONDUIT - above ceilings and/or concealed in building construction (seal tight flex required in exterior locations).
6. MC CABLE NOT ALLOWED.

REFER TO SECTION 260533 & 260500 OF SPECIFICATIONS FOR ADDITIONAL INFORMATION. CONDUITS SHALL BE MINIMUM 3/4" UNLESS OTHERWISE NOTED. CONDUIT SIZES, WHERE NOT NOTED ON THE DRAWINGS, SHALL BE SIZED FOR MAXIMUM 40% FILL PER CEC 310-6.

ADDITIONAL CONDUIT REQUIREMENTS.

- ROUTE CONDUIT(S) BELOW GRADE OR ABOVE CEILING SO THAT WALL OUTLETS, DEVICES, AND CONDUITS IN ALL EXPOSED BRICK WALL LOCATIONS SHALL BE RECESSED MOUNTED INSIDE BRICK. LOCATE DEVICES AT CELL WITH REINFORCEMENT CENTER AT BRICK AND/OR ONE CELL OVER AWAY FROM JAMB. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR CMU WALL LOCATIONS SECTIONS, AND DETAILS.
- REFER TO ELECTRICAL DETAILS FOR METAL PIPE PENETRATION THRU FIRE RATED WALL. PENETRATION OF FIRE-RESISTIVE WALLS AND FLOOR CEILINGS SHALL BE PROTECTED AS REQUIRED IN CBC SECTION 714.
- REFER TO ELECTRICAL DETAIL FOR DEVICE INSTALLATION FOR FIRE RATED WALLS.
- NO CONDUITS OR PIPING IN ANY SPACE SHALL BE EXPOSED AT THE CEILING AND WALL (COORDINATE WITH ALL DISCIPLINES PRIOR TO CONSTRUCTION). LOCATE ALL CONDUIT WITHIN WALLS

CONDUCTORS AND CABLES

REFER TO SPECIFICATIONS 26 0519 FOR ADDITIONAL INFORMATION.

1. WIRE CONNECTORS SHALL BE MINIMUM 75 DEGREE CENTIGRADE RATED AND PROPERLY SIZED FOR THE NUMBER OF CONDUCTORS BEING CONNECTED, TERMINATED, SPLICED, ETC. ALL ABOVE GRADE CONNECTORS SHALL BE SOLDERLESS LUG OR PLASTIC WIRE NUT TYPE, SCREW ON, PRESSURE CABLE TYPE (WIRE UT OR SPRING NUT TYPE) 600 VOLT, 105 DEGREE C, WITH SKIRT TO COVER ALL PORTIONS OF STRIPPED WIRES. CONNECTOR SHALL BE U.L. RATED FOR NUMBER AND SIZE OF CONDUCTORS BEING JOINED TOGETHER AS SPLICED.

2. WIRES AND CABLES FOR LINE VOLTAGE SYSTEM AND CONTROLS. WIRE AND CABLE SHALL BE COPPER, 600 VOLT RATED THROUGH OUT. CONDUCTORS 14AWG OT 10AWG, SOLID OR STRANDED. CONDUCTORS 8 AWG AND LARGER, STRANDED

3. ALL CONDUCTORS SHALL BE COPPER UNLESS OTHERWISE NOTED. MINIMUM SIZE FOR INDIVIDUAL CONDUCTORS SHALL BE #12 AWG UNLESS OTHERWISE NOTED ON PANEL SCHEDULE OR PLANS. SIZE #8 AWG AND LARGER SHALL BE STRANDED CONDUCTOR. INDIVIDUAL CONDUCTORS SHALL BE INSULATED WITH TYPE, XHHW, THW, THHN/THWN 600 VOLT INSULATION UNLESS OTHERWISE NOTED.

4. PROPER INSULATION TYPE SHALL BE USED FOR THE PROPER ENVIRONMENTAL APPLICATION (I.E. WATERPROOF, WET LOCATION, PLENUM TEMPERATURE RATED). ALL CONDUCTORS, WIRING CABLE WHERE INSTALLED BELOW FLOOR, SLAB OR UNDERGROUND SHALL BE CONSIDERED WET LOCATIONS, AND SHALL BE RATED ACCORDINGLY. NON WATERPROOF CABLING IS NOT ALLOWED IN ANY BELOW GRADE OR WET APPLICATION.

5. GROUP THE COMMON NEUTRAL CONDUCTOR FOR MULTIPLE CIRCUITS WITH ITS ASSOCIATED UNGROUNDED CONDUCTORS WHEN CONTAINED IN THE SAME ENCLOSURE. CEC 200.4(B)

6. THE BRANCH CIRCUIT SERVING EMERGENCY LIGHTING AND POWER CIRCUITS SHALL NOT BE PART OF A MULTIWIRE BRANCH CIRCUIT. CEC 700.19.

ELECTRICAL SHEET INDEX

SHEET NO.	SHEET DESCRIPTION
E001	ELECTRICAL GENERAL NOTES
E002	ELECTRICAL LEGEND AND ABBREVIATIONS
E003	FIXTURE SCHEDULE
E004	PANEL SCHEDULES
E005	ELECTRICAL SINGLE LINE DIAGRAM
ES101	ELECTRICAL SITE PLAN
ES102	ENLARGED ELECTRICAL SITE PLAN
E101	LIGHTING FLOOR PLAN
E111	POWER FLOOR PLAN
E112	ENLARGED ELECTRICAL PLAN
E121	COMMUNICATION FLOOR PLAN
E131	ELECTRICAL ROOF PLAN
E132	MEP CONNECTION FLOOR PLAN
E141	FIRE STATION ALERTING SYSTEM (FSAS) LEGENDS
E142	FIRE STATION ALERTING SYSTEM (FSAS) DETAILS
E143	FIRE STATION ALERTING SYSTEM (FSAS) FLOOR PLAN
E201~E207	ELECTRICAL DETAILS
E301	INTERIOR LIGHTING ENERGY COMPLIANCE FORMS
E302	EXTERIOR LIGHTING ENERGY COMPLIANCE FORMS
E303	POWER SYSTEM DISTRIBUTION ENERGY COMPLIANCE FORMS

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER
JEFFREY M. THOMA
No. 20823
ELECTRICAL
STATE OF CALIFORNIA
EXPIRES: 09/30/26
THOMA #22-8049

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2025
RRM IS A CALIFORNIA CORPORATION

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40
ELECTRICAL GENERAL NOTES

NO.	REVISION	DATE
△		
△		
△		
△		
△		
△		

BID DOCUMENTS

PROJECT MANAGER: CJ
DRAWN BY: TR
CHECKED BY: CJ, JT
DATE: MA[illegible] 4 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: E-001

County of Madera – CED Building and Fire Safety
Date 05/04/2026
Subject to Field Approval, Laws, Codes and Ordnances, not valid without signature

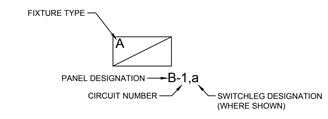
Apr 30, 2026 - 7:54am - Chris - K:\ENG\2022\22-8049\22-8049__E001~E002_NOTES & LEGEND ABB.dwg

ABBREVIATIONS

A	AMPERE	DIA	DIAMETER		INTERRUPTER	MTS	MANUAL TRANSFER SWITCH	RS	RAPID START
AB	AMP BREAKER	DISC	DISCONNECT	GND	GROUND	MTTB	MAIN TELEPHONE TERMINAL BOARD	SC	SIGNAL CABINET
ABAND	ABANDONED	DIST	DISTRIBUTION	GRS	GALVANIZED RIGID STEEL	MTTC	MAIN TELEPHONE TERMINAL CABINET	SCC	SHORT CKT CURRENT
ABV	ABOVE	DPST	DOUBLE POLE SINGLE THROW	GWS	GANG WITH SWITCH	MW	MICROWAVE	SFM	STATE FIRE MARSHAL
AC	ALTERNATING CURRENT	DW	DISHWASHER	H	HEIGHT, HIGH	N	NEUTRAL (GROUNDED CONDUCTOR)	SHT	SHEET
AC-#	AIR CONDITIONER	EM	EMERGENCY	HACR	HEATING, AC & REFRIG	(N)	NEW	SL	SLIMLINE, SWITCH LEG
ADJ	ADJACENT	(E)	EXISTING	HID	HIGH INTENSITY DISCHARGE	NSR	NEMA 3R	SPEC	SPECIFICATION
AF	AMP FUSE, AMP FRAME	EA	EACH	HO	HIGH OUTPUT	NC	NORMALLY CLOSED	SPST	SINGLE POLE SINGLE THROW
AFF	ABOVE FINISH FLOOR	EB	ELECTRONIC BALLAST	HOA	HAND-OFF-AUTO	NEC	NATIONAL ELECTRICAL CODE	SQ	SQUARE
AFG	BOVE FINISH GRADE	EC	ELECTRICAL CONTRACTOR	hp	HORSEPOWER	NEMA	NAT'L ELEC MANUFACTURER'S ASSOC	STR'G	STORAGE
AIC	AMPERES INTERRUPTING CAPACITY	EC-#	EVAPORATIVE COOLER	HPF	HIGH POWER FACTOR	NIC	NOT IN CONTRACT	SURF	SURFACE
AI	ALUMINUM	EF-#	EXHAUST FAN	HPS	HIGH PRESSURE SODIUM	NL	NIGHT LIGHT	SVC	SERVICE
AS	AMP SWITCH RATING	EL	EVENING LIGHT	IC	INTERCOM	NO	NORMALLY OPEN	SW	SWITCH
ATS	AUTOMATIC TIME SWITCH	ELEC	ELECTRICAL	ID	IDENTIFICATION	NPF	NORMAL POWER FACTOR	T	TRANSFORMER, TERMINAL
ATS	AUTOMATIC TRANSFER SWITCH	EM	EMERG BATTERY BACKUP	IDF	INTERMEDIATE DISTRIBUTION FRAME	NTS	NOT TO SCALE	-T-	TELEPHONE CONDUIT
AV	AUDIBLE/AUDIO VISUAL		EMERGENCY BALLAST	IF	INSIDE FROST	OC	ON CENTER	(TBR)	TO BE REMOVED
AWG	AMERICAN WIRE GAGE	EMERG	EMERGENCY	IG	ISOLATED GROUND	OCP	OVERCURRENT PROTECTION	TC	TIME CLOCK
BFG	BELOW FINISH GRADE	EOL	END OF LINE	J-BOX	JUNCTION BOX	OD	OUTSIDE DIAMETER	TEL	TELEPHONE
BIL	BASIC IMPULSE LEVEL	EQUIP'T	EQUIPMENT	k	QUANTITY 1000	OH	OVERHEAD	TELCO	TELEPHONE COMPANY
BLDG	BUILDING	ES	ENERGY SAVING	kVA	KILOVOLTAMPS	OSA	OFFICE of the STATE ARCHITECT	TS	TIME SWITCH
C	CONDUIT	(EXN)	(E) IN (N) LOCATION	kW	KILOWATT	OSHPD	OFFICE of STATEWIDE HEALTH	TSO	TIME SWITCH OVERRIDE
-C-	CATV CONDUIT	(EXR)	(E) TO BE (R)	LC	LIGHTING CONTACTOR		PLANNING & DEVELOPMENT	TSP	TWISTED SHIELDED PAIR
CAB'T	CABINET	EXT	EXTERIOR	LPS	LOW PRESSURE SODIUM	OVLD	OVERLOAD	TTB	TELEPHONE TERMINAL BOARD
CATV	CABLE TELEVISION	F	FLUORESCENT	LRA	LOCKED ROTOR AMPS	P	POLE	TTC	TELEPHONE TERMINAL CABINET
CB	CIRCUIT BREAKER, CODE BLUE	(F)	FUTURE	LS	LIFE SAFETY BRANCH	PA	PUBLIC ADDRESS	TX	TRANSFORMER
CBC	CA. BUILDING CODE	F-#	FURNACE	LT	LIGHT	PB	PULLBOX	TYP	TYPICAL
CEC	CA. ELECTRICAL CODE	FA	FIRE ALARM	LTG	LIGHTING	PC	PULL CHAIN	TYP SIM	TYPICAL SIMILAR
	CA. ENERGY COMMISSION	FACP	FIRE ALARM CONTROL PANEL	LV	LOW VOLTAGE	PC	PHOTOCELL	UC	UNDERCABINET, UNDERCOUNTER
CF	COMPACT FLUORESCENT	FAT	FIRE ALARM TERMINAL	MC	MECHANICAL CONTRACTOR	PC	PLUMBING CONTRACTOR	UG	UNDERGROUND
CFC	CALIFORNIA FIRE CODE	FAU	FORCED AIR UNIT	MCA	MIMUM CKT AMPS	ph	PHASE	UGPS	UNDERGROUND PULL SECTION
CLG	CEILING	FBO	FURNISHED BY OTHERS	MCB	MAIN CIRCUIT BREAKER	PNL	PANEL	UL	UNDERWRITERS LABORATORIES
CL	CENTER LINE	FC-#	FAN COIL	MCTB	MAIN CATV TERMINAL BOARD	POC	POINT OF CONNECTION	UON	UNLESS OTHERWISE NOTED
CKT	CIRCUIT	FLA	FULL LOAD AMPS	MCTC	MAIN CATV TERMINAL CABINET	-PP-	POWER PRIMARY	USA	UQ SVC ALERT 800-642-2444
CNTR	CONTRACTOR	FLR	FLOOR	MDF	MAIN DISTRIBUTION FRAME	-PS-	POWER SECONDARY	V	VOLT
C.O.	CONDUIT ONLY (W/PULLROPE)	FLUOR	FLUORESCENT	MECH	MECHANICAL	PV	PHOTOVOLTAIC	VA	VOLT AMPERES
COND	CONDUIT, CONDUCTOR	FS	FUSIBLE SWITCH	MFR	MANUFACTURER	(R)	RELOCATE(D)	VAC	VOLT ALTERNATING CURRENT
CR	CRITICAL BRANCH	FSAS	FIRE STATION ALERTING SYSTEM	MFS	MAIN FUSIBLE SWITCH	RECEPT	RECEPTACLE	VHO	VERY HIGH OUTPUT
CSFM	CALIFORNIA SFM	FVNR	FULL VOLTAGE NON-REVERSING	MH	METAL HALIDE	REF	REFRIGERATOR	VOLT	VOLTAGE
CT	CURRENT TRANSFORMER	G	GROUNDING CONDUCTOR	MLO	MAIN LUGS ONLY	REQ'D	REQUIRED	VR	VANDAL-RESISTANT
Cu	COPPER	GC	GENERAL CONTRACTOR	MOCP	MAXIMUM OCP	RLA	RATED LOAD AMPS	W	WIDTH, WATT, WIRE
CU-#	CONDENSING UNIT	GD	GARBAGE DISPOSAL	MPOE	MINIMUM POINT OF ENTRY	RM	ROOM	WH-#	WATER HEATER
D	DEPTH	GFCI	GROUND FAULT CIRCUIT	MSB	MAIN SWITCHBOARD	RMC	RIGID METAL CONDUIT	WP	WEATHERPROOF (NEMA 3R)
DC	DIRECT CURRENT		INTERRUPTER	MT	MOUNT	RMV	REMOVE	XFMR	TRANSFORMER
DF	DRINKING FOUNTAIN	GFI	GROUND FAULT CIRCUIT	MT HT	MOUNTING HEIGHT	RPLC	REPLACE	+48	INDICATES MOUNTING HEIGHT AFF

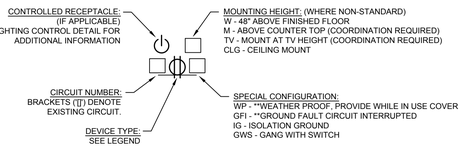
CIRCUITING LEGEND

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.

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.

LEGEND

NOTE: INTERPRET IN CONTEXT

CONDUIT/WIRE

- NEW
- UNDERGROUND
- NEW POWER HOMERUN (3 HOTS & NEUT SHOWN)
- ISOLATED GROUND
- EXISTING TO REMAIN
- (E) POWER HOMERUN
- WIRE LINE- CONTINUES
- 3 * CONDUIT STUB (W/MARKER)
- VERTICAL CONDUIT RUN
- CONDUIT SEAL
- FLEXIBLE CONNECTION
- LOW VOLTAGE
- SURFACEMOUNT RACEWAY
- INDICATES LINE CONTINUES
- CORD W/PLUG

SOUND

- (S) SPEAKER- CLG FLUSHMOUNT
- (S) SPEAKER- WALLMOUNT
- (M) MICROPHONE INPUT
- (A) AUXILIARY INPUT
- (HS) HEADSET OUTLET
- (V) VOLUME CONTROL
- V(S) SPEAKER- CLG FLUSHMOUNT VANDAL-RESISTANT
- S CLOCK/SPEAKER WALLMOUNT SEMI-FLUSH

MISCELLANEOUS

- MOTOR
- (T) THERMOSTAT
- CIRCUIT BREAKER
- FUSIBLE SWITCH
- GROUND
- Ø PHASE
- CLOCK
- S CLOCK/SPEAKER COMBINATION
- WALL MOUNTED CLOCK
- PUSHBUTTON
- FLUSHMOUNT PANEL
- SURFACEMOUNT PANEL
- FLUSHMOUNT CABINET
- SURFACEMOUNT CABINET
- DAMPER MOTOR
- (H) HUMIDISTAT
- (M) MAGNETIC CONTACTOR
- COMBINATION STARTER
- SAFETY DISCONNECT
- (J) JUNCTION BOX

FIRE ALARM

- FIRE ALARM CONTROL PANEL
- RPS REMOTE POWER SUPPLY
- H HORN- AUDIBLE DEVICE
- V VISUAL- VISUAL DEVICE
- AV AUDIBLE/VISUAL
- SV SPEAKER/VISUAL
- F FLOW SWITCH
- T TAMPER SWITCH
- P MANUAL PULL STATION
- SD SMOKE DETECTOR
- DSD DUCT SMOKE DETECTOR
- CO SMOKE DETECTOR WITH CO
- V SMOKE DETECTOR WITH VISUAL
- SFD SMOKE FIRE DAMPER
- H HEAT DETECTOR
- B BELL
- END OF LINE RESISTOR
- C CHIME

LIGHT FIXTURES

- CEILING SURFACEMOUNT
- WALL SURFACEMOUNT
- PENDANT MOUNT
- RECESSED DOWNLIGHT
- RECESSED WALLWASH
- RECESSED
- SURFACE
- STRIP UON
- TRACK LIGHT
- DIRECTIONAL FLOOD
- EMERGENCY FIXTURE
- POLE LIGHT
- POLE LIGHT- DECORATIVE
- UPLIGHT- FLUSH IN GRADE
- BOLLARD
- TANDEM-WIRED LAMPS
- UNDERCABINET LIGHT
- WALL SURFACE MOUNT LINEAR TYPE
- PENDANT LINEAR
- RECESSED WALL MOUNT
- WALL-PACK
- EXIT LIGHT- WALL
- EXIT LIGHT- CEILING (ARROW INDICATES DIRECTION)
- A LETTER ADJACENT INDICATES FIXTURE TYPE
- LED COVE & UNDERCABINET LIGHT PER FIXTURE SCHEDULE

POWER LEGEND

- 20A SINGLE RECEPTACLE
- 20A DUPLEX RECEPTACLE
- 20A DUPLEX- HALF SWITCHED
- 20A SWITCHED RECEPTACLE
- 20 DOUBLE DUPLEX RECEPTACLE
- CLG 20A CEILING MOUNTED OUTLET
- GFCI 20A (GFCI) GROUND FAULT CURRENT INTERRUPTER DEVICE
- MD 20A MOUNT ABOVE COUNTER PER ADA.
- M@ MOUNT AT +48" MEASURED TO TOP OF BOX.
- WP WHILE-IN USE NEMA 3R COVER (TAYMAC #MX4280S OR ENGINEER APROVED EQUAL UNLESS OTHERWISE NOTED)
- 208V 1Ø RECEPTACLE
- FLOOR MOUNT 208V, 1Ø RECEPTACLE
- FLOOR MOUNTED OUTLET
- 20A "CONTROLLED" DUPLEX RECEPTACLE PER 2019 CA ENERGY CODE REQUIREMENTS 130-5 "CIRCUIT CONTROLS FOR 120V RECEPTACLES"
- 20A (1)CONTROLLED DUPLEX RECEPTACLE AND (1) DUPLEX 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 2019 CA ENERGY CODE REQUIREMENTS.
- GWS GANG WITH SWITCH
- U 20AMP DUPLEX OUTLET WITH TYPE A AND TYPE C USB CHARGER
- TV TELEVISION OUTLET. VERIFY MOUNTING HEIGHT PRIOR TO ROUGH-IN.
- A DENOTES THAT OUTLETS ARE PROTECTED BY AFCI BREAKER
- DROP CORD RECEPTACLE
- COMBINATION POWER/DATA FLOOR BOX. PROVIDE 4-GANG FLOOR BOX (WIREMOLD EVOLUTION SERIES OR EQUAL), SINGLE DUPLEX OUTLET, (2)COMMUNICATION OUTLETS, AND SPARE SPACE. CONTRACTOR TO PROVIDE ALL ACCESSORIES FOR A WORKING SYSTEM.
- DISCONNECT FUSE OR NON FUSED
- GROUND BAR
- SD 120V COMBINATION SMOKE ALARM AND CARBON MONOXIDE WITH BATTERY BACK-UP MOUNTED AT CEILING. ALL ALARM MUST BE INTERCONNECTED SO THAT ALL DETECTORS SOUND AN ALARM WHEN SMOKE IS DETECTED BY ANY ONE OF THE DETECTORS ANYWHERE. (KIDDE #P3010CU)

NOTE: PROVIDE ALL OUTLETS WITH TAMPERPROOF DEVICE WITH A MINIMUM 20AMP RATED DEVICE

LIGHTING CONTROL SYMBOLS

- $ SINGLE POLE SINGLE THROW (SPST) SWITCH
- $2 DOUBLE POLE SINGLE THROW (DPST) SWITCH
- $3 3-WAY SWITCH
- $4 4-WAY SWITCH
- $T TIMER SWITCH
- $P W/ PILOT LIGHT
- $K KEY OPERATED
- $T W/ THERMO OVERLOAD
- $F/L CEILING FAN/LIGHT CONTROL (LUTRON MAESTRO #MA-LFQHW)
- $TS 15 MINUTE MAX INTERVAL TIMER (SENSOR SWITCH #PTS 15) UON.
- $OSDT WALL SWITCH OCCUPANCY SENSOR, SINGLE BUTTON, DUAL TECHNOLOGY (SENSOR SWITCH #WSD-PDT)
- $OS2,b WALL SWITCH OCCUPANCY SENSOR, 2-BUTTON, DUAL TECHNOLOGY (SENSOR SWITCH #WSD PDT 2P)
- $OS WALL SWITCH OCCUPANCY SENSOR, 2-BUTTON, PASSIVE INFRARED (SENSOR SWITCH #WSX)
- $D 0-10V DIMMING WALL SWITCH(SYNERGY #ISD BC) PHASE DIMMING WALL SWITCH (SYNERGY #ISD ADEZ)
- $D,OS 0-10V WALL DIMMING OCCUPANCY WALL SWITCH (ACUITY #WSX D BC)
- $VA VACANCY SENSOR WALL SWITCH (ACUITY #SSD VA 120)
- $$ DUAL LEVEL SWITCHING

- $nD nLIGHT SINGLE CHANNEL WITH DIMMING CONTROLS (nLIGHT NPODM DX)
- $n2D nLIGHT 2 CHANNELS WITH DIMMING CONTROLS (nLIGHT NPODM 2P DX)
- $n4D nLIGHT 4 CHANNELS WITH DIMMING CONTROLS (nLIGHT NPODM 4P DX)
- $nOSD nLIGHT 1-POLE WALL SWITCH OCCUPANCY SENSOR, DUAL TECHNOLOGY, LOW VOLTAGE, DIMMING CONTROL (#nWSX PDT LV DX)
- OSE CEILING MOUNTED OCCUPANCY SENSOR EXTENDED RANGE 360 DEGREES LINE VOLTAGE, DUAL TECHNOLOGY. (SENSOR SWITCH #CMR PDT 10)
- OSLV CEILING MOUNTED OCCUPANCY SENSOR 360 DEGREES LOW VOLTAGE, DUAL TECHNOLOGY. (SENSOR SWITCH #CM PDT 10)
- PP LINE VOLTAGE POWER PACK (ACUITY PP20)
- nBRE nLIGHT 8 PORT BRIDGE (#nBRG 8). FURNISH WITH POWER SUPPLY #PS 150.
- nLE nLIGHT ENABLE FIXTURE. FIXTURE WILL HAVE INTEGRAL POWER PACK.
- nWH nLIGHT GRAPHIC TOUCH SCREEN (#nPOD GFX). FURNISH WITH POWER SUPPLY #PS 150.
- nADR nLIGHT OPEN ADR INTERFACE MODULE. RECEIVES POWER DEMAND INFORMATION FROM UTILITY DRAS. SUPPORTS UP TO 5nLIGHT GATEWAYS. INCLUDE POWER SUPPLY
- nECY nLIGHT ECLYPSE DIGITAL TIME CLOCK AND NETWORK CONTROLLER; MAX 1500 nLIGHT NETWORK DEVICES; POWER SUPPLY (120VAC), AND TOUCH SCREEN (NGWY2 GFX WITH PS 150 POWER SUPPLY) INTERFACE INCLUDED; BACNET INTERFACING MOUNTED IN NEMA 1 ENCLOSURE.
- nOSPC nLIGHT LOW VOLTAGE DUAL TECHNOLOGY CEILING MOUNT 360° OCCUPANCY SENSOR WITH DAYLIGHT HARVESTING (#nCM PDT 10 ADC) PROGRAM SENSOR TO PROVIDE SEPARATE CONTROL FOR PRIMARY AND SECONDARY DAYLIT ZONES (AS APPLICABLE). GENERAL LIGHTING POWER IN ASSOCIATED DAYLIT ZONE SHALL BE REDUCE BY A MINIMUM OF 65%
- nOSC nLIGHT LOW VOLTAGE DUAL TECHNOLOGY CEILING MOUNT 360° OCCUPANCY SENSOR (#nCM PDT 10). "C" DENOTES CORNER MOUNT.

- nPP nLIGHT AUTOMATIC DIMMING CONTROL PHOTOCELL (#nCM ADCX). SINGLE ZONE CONTROL. PROGRAM TO PROVIDE DIMMING CONTROL FOR DAYLIT ZONE. GENERAL LIGHTING POWER IN ASSOCIATED DAYLIT ZONE SHALL BE REDUCED BY A MINIMUM OF 65%.
- nOSH nLIGHT HIGH BAY 360 DEGREE SENSOR. PIR OCCUPANCY DETECTION. (nCM 6)
- nDP nLIGHT DIMMING POWERPACK TO DIMM FIXTURES (nSP5 PCD). COORDINATE DIMMING TYPE WITH LIGHT FIXTURE. REFER TO MANFUFACTURER WIRING DIAGRAM.
- nPP nLIGHT 0-10V DIMMING POWERPACK TO DIMM FIXTURES (nPP16D) REFER TO MANFUFACTURER WIRING DIAGRAM.
- nPP(ER) nLIGHT 0-10V DIMMING EMERGENCY POWERPACK TO DIMM FIXTURES (nPP16D ER) REFER TO MANFUFACTURER WIRING DIAGRAM.
- nPPT24 nLIGHT POWER PACK FOR CONTROLLED RECEPTACLES (nPP20 PL). REFER TO MANFUFACTURER WIRING DIAGRAM.
- LIGHTING POWER BRANCH CIRCUIT
- – –cs– — CONTROL CABLE, CAT 5 LOW VOLTAGE PER SYSTEM REQUIREMENTS ABOVE T-BAR CEILING.
- – –LV– — LOW VOLTAGE PER MANUFACTURER'S REQUIREMENTS IN 1/2" CONDUIT

CONVENTIONS

- X NUMBERED SHEET NOTES: REFERS TO NOTES ON SAME SHEET AS REFERENCE
- 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"))
- Z / X DETAIL REFERENCE: Z = DETAIL DESIGNATION X = SHEET NUMBER REFERENCE
- Y / X MECHANICAL SYSTEMS TAG (REFER TO MECHANICAL SHEETS) Y = UNIT TYPE X = UNIT NUMBER

RECEPTACLES AT DAMP AND WET LOCATION

A. ALL 15 AND 20AMPERE RECEPTACLES FOR BOTH DAMP AND WET LOCATIONS REQUIRED TO BE LISTED WEATHER-RESISTANT (WR) TYPE PER CEC 406.9 (A) AND (B)

B. CEC 406.9(A) RECEPTACLES IN DAMP LOCATIONS: RECEPTACLES INSTALLED OUTDOORS IN A LOCATION PROTECTED FROM THE WEATHER OR IN OTHER DAMP LOCATIONS SHALL BE AN ENCLOSURE FOR THE RECEPTACLE THAT IS WEATHERPROOF WHEN THE RECEPTACLE IS COVERED (ATTACHMENT PLUG CAP NOT INSERTED AND RECEPTACLE COVERS CLOSE)

C. CEC 406.9(B) RECEPTACLES OF 15 AND 20AMP, 125 AND 250 VOLTS INSTALLED IN A WET LOCATION SHALL HAVE AN ENCLOSURE THAT IS WEATHERPROOF WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED. AN OUTLET BOX HOOD INSTALLED FOR THIS PURPOSE SHALL BE LISTED AND SHALL BE IDENTIFIED AS "EXTRA-DUTY" OTHER LISTED PRODUCTS, ENCLOSURES, OR ASSEMBLIES PROVIDING WEATHERPROOF PROTECTION THAT DO NOT UTILIZE AN OUTLET BOX HOOD NEED TO BE MARKED "EXTRA DUTY"

EXCEPTION: 15 AND 20AMP, 125 THROUGH 250 VOLT RECEPTACLES INSTALLED IN A WET LOCATION AND SUBJECT TO ROUTINE HIGH-PRESSURE SPRAY WASHING SHALL BE PERMITTED TO HAVE AN ENCLOSURE THAT IS WEATHERPROOF WHEN THE ATTACHMENT PLUG IS REMOVED.

COMMUNICATIONS LEGEND

SYMBOL	DESCRIPTION	MOUNTING	ROUGH-IN	DEVICE/CABLES
▽	DATA/VOICE	FLUSH MOUNT PER PLAN	5S BOX AND EMT CONDUIT TO NEAREST CABLE TRAY OR ABOVE T-BAR CEILING (UON)	DEVICE, JACKS, ALL CABLING AND PLATE PER DETAIL 1/E-201.
▼W	WALL PHONE	FLUSH AT +48" AFF FROM TOP OF BOX	4S BOX, RING AND EMT CONDUIT(S) TO CABLE TRAY OR ABOVE T-BAR CEILING (UON)	DEVICE, JACKS, ALL CABLING AND PLATE PER DETAIL 1/E-201.
WAP ▽	WIRELESS ACCESS POINT "WAP	FLUSH MOUNT PER PLAN	4S BOX, RING AND EMT TO CABLE TRAY OR ABOVE T-BAR CEILING (UON)	DEVICE, JACKS, ALL CABLING AND PLATE PER DETAIL 1/E-201.
911 ▼	EMERG. PHONE AT ENTRY	FLUSH AT +48" AFF FROM TOP OF BOX	4S BOX, RING AND EMT TO CABLE TRAY OR ABOVE T-BAR CEILING (UON)	DEVICE, JACKS, ALL CABLING AND PLATE PER DETAIL 1/E-201.
TV	FLAT SCREEN TV OUTLET WITH DATA	FLUSH AT COORDINATE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN	BOX, RING AND EMT CONDUIT TO CABLE TRAY OR ABOVE T-BAR CEILING (UON)	DEVICE, JACKS, ALL CABLING AND PLATE PER DETAIL 1/E-201.
DRTV	DAY ROOM TV OUTLET WITH DATA	FLUSH AT STANDARD HEIGHT AND AT 5'-0" AFF.	BOX, RING AND EMT CONDUIT TO COMMUNICATION ROOM.	DEVICE, JACKS, ALL CABLING AND PLATE PER DETAIL 4/E-112 .

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER JEFREY M. THOMA ELECTRICAL STATE OF CALIFORNIA

EXPIRES: 09/30/26
THOMA #22-8049

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS TO REGULATORY AGENCIES REVIEW SHALL NOT CONSTITUTE PUBLICATION OR WAIVER OF THE ABOVE RESTRICTIONS.
RRM DESIGN GROUP COPYRIGHT 2025
RRM IS A CALIFORNIA CORPORATION

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

ELECTRICAL LEGEND AND ABBREVIATIONS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: CJ
DRAWN BY: TR
CHECKED BY: CJ, JT
DATE: MAY 2026
PROJECT NUMBER: 2471-01-CI21

Approved Date: 05/04/2026
County of Madera – Community Development Department
Plans Approved Under the 2022 California Building Codes and Ordinances, not valid without signature.

SHEET: E-002

BID DOCUMENTS

Apr 30, 2026 - 7:54am - Chris - K:\ENG\2022\22-8049\22-8049_E001-E002_NOTES & LEGEND.ABB.dwg

LIGHTING CONTROL PANEL SCHEDULE

"LCP" (ACUITY #GR1408LT-HL SMNE1 GR1408 IDIM DTCMOD DV) FLUSH ___
8 SWITCHING RELAY NEMA 1 ENCLOSURE SURFACE X
LOCATED IN MECHANICAL ROOM CONNECT TO PANEL PRL2-1

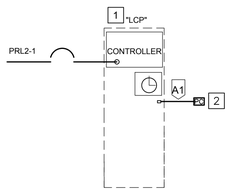
RELAY NO.	BRANCH CIRCUIT NO.	LOAD DESCRIPTION	CONTROL	NOTES
r1	PRL2-4	REAR/FRONT POLE LIGHTS	TIMECLOCK	1
r2	PRL2-4	FLAG	TIMECLOCK	1
r3	PRL2-4	BACK BOLLARD	TIMECLOCK	1
r4	PRL2-6	POLE FRONT APP. BAY	TIMECLOCK	1
r5	PRL2-6	FRONT BOLLARD AND STEP LIGHT	TIMECLOCK	1
r6	PRL2-6	MONUMENT SIGN	TIMECLOCK	1
r7	PRL2-2	BUILDING LIGHTS	TIMECLOCK	1
r8	PRL2-4	LANDSCAPE LIGHTING (POWER SUPPLY)	TIMECLOCK	1

LIGHTING CONTROL SCHEDULE NOTES:

GENERAL NOTES:

- LOW VOLTAGE RELAYS ARE CAPABLE OF LIGHTING CONTROL OVERRIDE.
- INSTALL UNSWITCHED PHASE LEG OF BRANCH CIRCUITS TO ROOMS WITH LOCAL CONTROL (OCC. SENSOR, ETC.) OR EXIT SIGNS.
- RELAYS OPERATING IN PARALLEL WITH ASSOCIATED ROOM NORMAL POWER LIGHTS, FAIL-SAFE TO CLOSED POSITION UPON LOSS OF UTILITY POWER. (BARRIER EMERG. CIRCUITS FROM NORMAL WITHIN LCP).
- TIME CLOCK TO SWEEP LIGHTS OFF AT END OF DAY PER OWNER TIME SCHEDULE.
- THE WIRING FOR THE EMERGENCY SYSTEM SHALL BE INSTALLED IN ACCORD WITH CEC 700.9.
- PROVIDE SURFACE WALL SWITCHES WITH CUSTOM ENGRAVED BUTTON LABELS AS DIRECTED BY THE OWNER.
- VERIFY EACH RELAY'S FUNCTIONAL PROGRAMMING WITH OWNER.
- PROGRAM SYSTEM TIME FUNCTIONS, SCENE PROGRAMMING, AND KEY PAD LABELS AS DIRECTED BY OWNER.
- PROVIDE SYSTEM TRAINING TO OWNER PER DIVISION 26 SPECIFICATIONS.
- PROVIDE A COMPLETE SHOP DRAWINGS.
- EXTEND ALL 0-10V WIRING TO "LCP"

1. PROGRAM RELAY FOR PHOTOCELL 'ON' AT DUSK WITH PROGRAMMED 'OFF' PER OWNER TIME SCHEDULE.



A1 EC TO PROVIDE 1/2" C. AND PULL CAT5E PER MANUFACTURER'S REQUIREMENTS. CONNECT IN DAISY CHAIN FASHION.

☐ REFERENCE NOTES

1. LIGHTING CONTROL PANEL WITH DIGITAL TIME CLOCK WITH MODEM LOCATED IN ELECTRICAL ROOM, "LCP" REFER TO RELAY SCHEDULE ABOVE. "LCP".
2. PROVIDE NEW PHOTO SENSOR AT ROOF. (ORIENT WINDOW NORTH). PROVIDE 1/2"C DOWN TO "LCP" WITH (2)#18 AWG. TO PHOTOCELL CARD VERIFY LOCATION.

OUTDOOR LIGHTING SHALL MEET SECTION 2022 CALIFORNIA ENERGY CODE SECTION 2

1. **DAYLIGHT AVAILABILITY**
   WE ARE USING A TIME CLOCK WITH ASTRONOMICAL TIME SWITCH AND WILL INSTALL PHOTO SENSOR AT ROOF TO AUTOMATIICLAY SHUT OFF OUTDOOR LIGHTING WHEN DAYLIGHT IS AVAILABLE.
2. **AUTOMATIC SCHEDULING CONTROLS** (CONTRACTOR SHALL EXTEND 0-10V WIRING SO TIMECLOCK CAN DIM LIGHTS TO MEET THESE REQUIREMENT)

   A. PROPOSED LIGHTING CONTROL WILL HAVE AUTOMATIC SCHEDULING CONTROLS TO AUTOMATICALLY SCHEDULE CONTROLS.
   B. PROPOSED LIGHTING CONTROL WILL BE CAPABLE OF REDUCING THE OUTDOOR LIGHTING POWER BY AT LEAST 50% AND NO MORE THAN 90%, AND SEPARATELY CAPABLE OF TURNING THE LIGHTING OFF, DURING SCHEDULE UNOCCUPIED PERIODS.
   C. PROPOSED LIGHTING CONTROL WILL ALLOW SCHEDULING OF A MINIMUM OF TWO NIGHT TIME PERIODS WITH INDEPENDENT LIGHTING LEVELS, AND WILL INCLUDE AN OVERRIDE FUNCTION THAT TURN LIGHTING ON DURING ITS SCHEDULED DIM OR OFF STATE FOR NO MORE THAN TWO HOURS WHEN AN OVERRIDE IS INITIATED.
3. **MOTION SENSING CONTROLS**

   ALL INSTALLED OUTDOOR LIGHTING, WHERE THE BOTTOM OF THE LUINAIRE IS MOUNTED 24 FEET OR LESS ABOVE THEG ROUND, SHALL BE CONTROLLED WITH MOTION SENSORS AND AUTOMATIC LIGHTING CONTROLS THAT CAPABLE OF AUTOMATICALLY REDUCING THE LIGHTING POWER OF EACH LUMINIARE BY AT LEAST 40 PERCENT BU T NO EXCEEDING 90 PERCEN, PR PROVIDE CONTINUOUS DIMMING THROUGH RANGE THAT INCLUDES 50 PERCENTTHROUGH 90 PERCENT.

   EXCEPTION 1: LUMINAIRES WITH A MAXIMUM RATED WATTAGE OF 40 WATTS EACH AR NOT REQUIRED TO HAVE MOTION SENSING CONTROL, THEREFORE, THE ONLY OUTDOOR FIXTURE THAT REQUIRES MOTION SENSOR IS FIXTURE TYPE S1. SEE LUMINAIRE SCHEDULE FOR MOTION SENSOR REQUIREMENTS.

1 LIGHTING CONTROL DIAGRAM

SITE/EXTERIOR LIGHTING LUMINAIRE SCHEDULE

TYPE	ILLUSTRATION	MANUFACTURER	CATALOG NO.	VOLTAGE	MAX. VA.	LAMPING	MOUNTING	DESCRIPTION
S1		LITHONIA	DSX0 LED P2 30K TFTM MVOLT DBLXD DMG PIRH (HEAD) SSS 14C DM19AS DBL (POLE)	MVOLT	49	LED 30K	24" CONCRETE BASE	16' OVERALL POLE LIGHT FORWARD THROW MEDIUM DISTRIBUTION, BLACK FINISH. PROVIDE WITH MOTION SENSOR 0-10V DIMMING
S1A		LITHONIA	DSX0 LED P2 30K T5W MVOLT DBLXD DMG IRH (HEAD) SSS 14C DM19AS DBL (POLE)	MVOLT	45	LED 30K	24" CONCRETE BASE	16' OVERALL POLE LIGHT TYPE 5 DISTRIBUTION, BLACK FINISH. PROVIDE WITH MOTION SENSOR. 0-10V DIMMING
S2		LITHONIA	DSXB 12C 350 30K ASY MVOLT DBLXD	MVOLT	16	LED 30K	CONCRETE BASE	42" LED BOLLARD ASYMMETRIC DISTRIBUTION, BLACK FINISH, 0-10V DIMMING
S3		LITHONIA	DSXW2 LED 30C 350 30K TFTM MVOLT DBLXD	MVOLT	36	LED 30K	WALL +15'-0"AFF	EXTERIOR LED FLOOD LIGHT 18-1/2"W X 7-5/8"H X 10" D, BLACK FINISH, 0-10V DIMMING
S4		LITHONIA	DSXW1 1 LED 10C 350 30K T3M MVOLT DBLXD	MVOLT	13	LED 30K	WALL +9'-0"AFF	EXTERIOR LED FLOOD LIGHT 13-3/4"W X6-3/8"H X 10" D, BLACK FINISH, 0-10V DIMMING
S5		LITHONIA	LDN6CYL 30 10 L06 WR LSS MVOLT EZ10 WM WL DBL	MVOLT	12.8	LED 30K	WALL +7'-0" AFF	6" CYLINDER LED EXTERIOR WALL MOUNT 1000 LUMENS, BLACK FINISH, 0-10V DIMMING
S6		LITHONIA	LDN6CYL 30 30 L06 WR LSS MVOLT EZ10 WM WL DBL	MVOLT	34.7	LED 30K	WALL +9'-0" AFF	6" CYLINDER LED EXTERIOR WALL MOUNT 3000 LUMENS, BLACK FINISH 0-10V DIMMING
S7		LITHONIA	LDN6 30 10 L06 AR LSS MVOLT EZ10 EL WL	MVOLT	12.8	LED	RECESSED	6" LED CAN LIGHT WITH EMERGENCY BATTER PACK, 0-10V DIMMING
S8		ANP LIGHTING	100WGLRD GUP RTCNC M021LDNW50K	120	20	LED	WALL	LED RED LIGHT SCONCE BLACK FINISH
S9		HYDREL	M9710C B LED P230K MVOLT NSP FLC 34B LSF LDIM BZ	MVOLT	35	LED	IN-GRADE PER MANU-FACTURER REQUIRE-MENTS. SEE SHEET E-206.	LED IN-GRADE THE MODULE IS SUSPENDED BELOW THE TOP DOOR LENS IN A SURFACE ADJUSTABLE, 15 DEGREE TILE MECHANISM FIELD ADJUST TO AIM AT FLAG, 0-10V DIMMING
S10		TARGETTI	KPLM 41 ZM L2 30 IDU2525K	MVOLT	29.2	LED	IN-GRADE PER MANU-FACTURER REQUIRE-MENTS.	LED ROUND IN-GRADE WALL WASH WITH HALF FROSTE GLASS MONUMENT SIGN, 0-10V DIMMING
S11		BEGA	B24152 K35 BLK	MVOLT	11	LED 3500K	RECESSED	LED STEP LIGHT, 0-10V DIMMING, BLACK FINISH

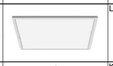
EXIT AND EMERGENCY LIGHTING LUMINAIRE SCHEDULE

TYPE	ILLUSTRATION	MANUFACTURER	CATALOG NO.	VOLTAGE	MAX. VA.	LAMPING	MOUNTING	DESCRIPTION
X1		LITHONIA	ELT EM G 1W BA SW	120	5	LED	WALL	LED EXIT SIGN EDGE-LIT WITH 90 MINUTE BATTERY BACK-UP BRUSH ALUMINUM FINISH
X2		LITHONIA	ELT EM 2W BA SE	120	5	LED	WALL/ SURFACE END	LED EXIT SIGN (2 SIDE) EDGE-LIT WITH 90 MINUTE BATTERY BACK-UP BRUSH ALUMINUM FINISH
XM		LITHONIA	AFN BN	120	1.1	LED	WALL	ARCHITECTURAL EMERGENCY LIGHT, WITH 90 MIN BACK-UP BRUSH NICKEL FINISH
XME		ISOLITE	OWL EM BK MB	MVOLT	17	LED	WALL	EXTERIOR EMERGENCY LIGHTING, WITH 90 MINUTE BATTERY BACK-UP BLACK FINISH
A1 (EM)		LITHONIA	SAME AS A1 WITH EL14L T20C	MVOLT	38.8	LED 4039 LUMENS 35K	RECESSED T-BAR CEILING	SAME AS A1 WITH 90 MINUTE EMERGENCY BATTERY PACK FOR T20 CEC COMPLIANCE 0-10V DIMMING
A3 (EM)		LITHONIA	SAME AS A3 WITH EL14L T20C	MVOLT	31.3	LED 3285 LUMENS 35K	RECESSED T-BAR CEILING	SAME AS A3 WITH90 MINUTE EMERGENCY BATTERY PACK FOR T20 CEC COMPLIANCE 0-10V DIMMING
B3 (EM)		LITHONIA	ZL1N L48 2000LM MDD MVOLT 35K 80CRI GALV E10W	MVOLT	32	LED 1905 LUMENS 35K	SURFACE	4' LINEAR STRIP 0-10V DIMMING, WITH 90 MINUTE EMERGENCY BATTERY PACK T20 CEC COMPLIANCE GALVANIZED FINISH
D3 (EM)		LITHONIA	LDN4 35/10 L04 AR LSS MVOLT GZ10 E10WCPR	120	10.58	LED 1000 LUMENS 35K	RECESSED	4" LED DOWNLIGHT, 0-10V DIMMING WITH REMOTE 90 MINUTE EMERGENCY BATTERY PACK. MOUNT BATTERY TO NEAREST T-BAR CEILING SPACE

UNDERCABINET LIGHTING LUMINAIRE SCHEDULE

TYPE	ILLUSTRATION	MANUFACTURER	CATALOG NO.	VOLTAGE	MAX. VA.	LAMPING	MOUNTING	DESCRIPTION
UC 3		LITHONIA	(1)UCLD24 AND (1)UCLD12 BN	120	19.8	LED 35K	WALL	3FT UNDERCABINET LIGHT BRUSH NICKEL FINISH
UC 4		LITHONIA	(2)UCLD 24 BN	120	25	LED 35K	WALL	4FT UNDERCABINET LIGHT BRUSH NICKEL FINISH
UC 6		LITHONIA	(3)UCLD 24 BN	120	37.5	LED 35K	WALL	6FT UNDERCABINET LIGHT BRUSH NICKEL FINISH

INTERIOR LIGHTING LUMINAIRE SCHEDULE

TYPE	ILLUSTRATION	MANUFACTURER	CATALOG NO.	VOLTAGE	MAX. VA.	LAMPING	MOUNTING	DESCRIPTION
A1		LITHONIA	EPANL 2X4 80CRI 35K MIN10 ZT MVOLT	MVOLT	38.8	LED 4039 LUMENS 35K	RECESSED T-BAR CEILING	2'X4' LED TROFFER EDGE-LIT FLAT PANEL 0-10V DIMMING
A2		LITHONIA	2GTL 4 48L EZ1 LP835	MVOLT	37.9	LED 5200 LUMENS 35K	RECESSED T-BAR CEILING	2'X4' LED TROFFER PRISMATIC LENS 0-10V DIMMING
A3		LITHONIA	EPANL 2X2 3400LM 880CRI 35K MIN10 ZT MVOLT	MVOLT	31.3	LED 3285 LUMENS 35K	RECESSED T-BAR CEILING	2'X2' LED TROFFER EDGE-LIT FLAT PANEL PROVIDE EL14L T20C FOR (EM) FIXTURES 0-10V DIMMING
B1		KENNALL	MLRS5 96 F PIA LG 45L35K DCC DV	MVOLT	100	LED 8492 LUMENS 35K	SURFACE	8' LINEAR SURFACE FLAT END CAP 0-10V DIMMING LIGHT GRAY FINISH
B2		KENNALL	MLRS5 48 F PIA LG 45L35K DCC DV	MVOLT	50	LED 4246 LUMENS 35K	SURFACE	4' LINEAR SURFACE FLAT END CAP 0-10V DIMMING LIGHT GRAY FINISH
B3		LITHONIA	ZL1N L48 2000LM MDD MVOLT 35K 80CRI GALV	MVOLT	32	LED 1905 LUMENS 35K	SURFACE	4' LINEAR STRIP 0-10V DIMMING GALVANIZED FINISH
B4		LITHONIA	STL4 30L EZ1 LP835 DNA	MVOLT	26.7	LED 3049 LUMENS 35K	SURFACE	4' SURFACE SURFACE VOLUMETRIC 0-10V DIMMING (APPR. BAY AND PUBLIC RESTROOM) NATURAL ALUMINUM FINISH
C1		LITHONIA	IBGN 18000 HEF ACL WD MVOLT OZ10 35K 90CRI DNA NCMB6	MVOLT	102	LED 17262 LUMENS 35K	PENDANT MONOPOINT	APP BAY LED LIGHT 47.25"L 11.75"W X 2.75"D CLEAR ACRYLIC LENS 0-10V DIMMING NATURAL ALUMINUM FINISH WITH OCCUPANCY SENSOR
D1		JUNO	IC415L 835 WEZB 4017NC-WH	120	20	LED 1500 LUMENS 35K	RECESSED	4" LED DOWNLIGHT, IC RATING, 0-10V DIMMING, KITCHEN AND HALLWAY. COORDINATE MOUNTING ACCESSORIES AT EACH LOCATION.
D2		JUNO	IC412L 835 WEZB 432NC-WH	120	15.1	LED 1200 LUMENS 35K	RECESSED	4" LED DOWNLIGHT, IC RATING, 0-10V DIMMING, WET LOCATION RATED. COORDINATE MOUNTING ACCCESSORIES AT EACH LOCATION
D3		LITHONIA	LDN4 35/10 L04 AR LSS MVOLT GZ10	120	10.58	LED 1000 LUMENS 35K	RECESSED	4" LED DOWNLIGHT, 0-10V DIMMING
E1		SPI	AIP11847 L53.8WDML 120-277 3500K FB01	MVOLT	53.8	LED 4329 LUMENS 35K	PENDANT	36" DIAMETER PENDANT 0-10V DIMMING 54" OAH FABRIC - WHITE LINEN
E2		FOCAL LIGHTING	FSM2LS FL 625LF 35K 1C UNV L11 C24 TS 8'	MVOLT	66	LED 5000 LUMENS 35K	PENDANT	8' LINEAR PENDANT DOWN ONLY DISTRIBUTION 0-10V DIMMING 1% TITANIUM SILVER FINISH
E3		LITHONIA	LDN6CYL 35/ 10 L06 WR LSS MVOLT EZ10 ACC DNA	MVOLT	12.5	LED 1082 LUMENS 35K	PENDANT	6" CYLINDER 0-10V DIMMING NATURAL ALUMINUM FINISH
F1		HUNTER	DEMPSEY 44" LED	120	19.6	LED	FAN	44" CEILING FAN WITH LIGHT KIT BRUSH NICKEL FINISH
F2		ANDERSON	CF0110	120	45.24	LED	FAN	22" STILE ENCLOSED CEILING FAN AND LIGHT COMBINATION. NO EXPOSED BLADES BRUSH NICKEL FINISH
F3		HUNTER	53069	120	N/A	N/A	FAN	52" 5 REVERSIBLE BLADES CEILING FAN ONLY NO LIGHT KIT WHITE FINISH
G1		ACCESS LIGHTING	70003LED-BS	120	3	LED	WALL	LED READING LIGHT WITH INTEGRAL SWITCH BRUSHED STEEL
G2		LITHONIA	FMVCCL 36IN MVOLT 35K 90CRI BN	MVOLT	25.27	LED 35K	WALL ABOVE MIRROR	36" LED VANITY LIGHT BRUSHED NICKEL FINISH
G3		SPI	AIW10811 L14.3W 120-277V 3500K DML BAL	MVOLT	17.5	LED 1362 LUMENS 35K	WALL	DAYROOM WALL SCONCE BRUSHED ALUMINUM
G4		NOT USED.						
G5		MARK LIGHTING	S4LWD 8FT 1 N 35 WG EZB 120 DNA	120	28	LED 2,299 LUMENS 35K	WALL	8' LINEAR MAP LIGHT DIRECT ONLY NATURAL ALUMINUM TO MATCH FIXTURE TYPE "E3"

LIGHTING FIXTURE SCHEDULE NOTES

A. ILLUSTRATIONS AND/OR DIMENSIONS ARE APPROXIMATIONS ONLY INTENDED TO REPRESENT BASIC FIXTURE TYPE; DO NOT USE AS EXACT INFORMATION SOURCE. REFER TO MANUFACTURER CUT SHEETS.

B. EXACT LOCATIONS: BEFORE CONSTRUCTION, VERIFY WITH ARCHITECT EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL LIGHT FIXTURES. SEE ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS AS APPLICABLE.

C. EMERGENCY FIXTURES: PROVIDE "EM" DESIGNATED FIXTURES (SEE PLAN) AND FIXTURES WITH "E" AS LAST CHARACTER IN TYPE DESIGNATION WITH INTEGRAL EMERGENCY POWER PACK.

E. FIXTURE BRANCH CIRCUIT THROUGH-WIRING: VERIFY AND COMPLY WITH FIXTURE MANUFACTURER RESTRICTIONS AS DETERMINED BY UL. & NEC.

F. FINAL PLACEMENT AND AIMING OF EXTERIOR ADJUSTABLE FLOOD OR SPOT FIXTURES SHALL BE DETERMINED AFTER DARK WITH OWNER OR ARCHITECT PRESENT. PREARRANGE TIME AND PROVIDE TEMPORARY POWER AS REQUIRED.

G. PROVIDE IN-GRADE UPLIGHTS WITH SURROUNDING SLEEVE AND CRUSHED ROCK FOR PROPER WATER DRAINAGE AS RECOMMENDED BY MANUFACTURER. FIXTURES SHALL BE SEALED (HOT) PER MANUFACTURER'S REQUIREMENTS TO MINIMIZE CONDENSATE IN FIXTURE.

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER JEFFREY M. THOMA ELECTRICAL STATE OF CALIFORNIA

EXPIRES: 09/30/26
THOMA #22-8049

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DRAWINGS TO ANY REGULATORY AGENCY FOR REVIEW SHALL NOT CONSTITUTE PUBLICATION OF ANY PORTION OF THEM IN DEROGATION OF RRM'S COPYRIGHT.

RRM DESIGN GROUP COPYRIGHT 2025
RRM IS A CALIFORNIA CORPORATION

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

FIXTURE SCHEDULES

BID DOCUMENTS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: CJ
DRAWN BY: TR
CHECKED BY: CJ, JT
DATE: MAY 2026
Approved for Permit Issuance by: Date: 05/04/2026
Issuance of this permit does not authorize violation of any Codes and Ordinances, nor relieve the Owner of responsibility for compliance with Codes and Ordinances, not noted on the plans. Approval of this plan does not authorize violation of any Codes and Ordinances, not noted without signature.
County of Madera – Community Development Department – Building Division
PROJECT NUMBER: 2471-01-CI21
SHEET: E-003

Plans Approved Under the 2022 California Building Code

BUS RATING: 200 120/208V, 3PH, 4W
MAIN: 200 MAIN LUG ONLY
SPACES: 54 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 18 KAIC PANEL

(N) PANEL PM

SURFACE MOUNT, NEMA 1
LOCATION: STORAGE / UTILITY 109
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE A	PHASE B	PHASE C	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
1.96%	60		M	1	HPC-1 (ROOF)	20	2	12	2059 / 698			12	1	20	ROOF EF-2	2	M		115	2.20%
			M	3	"			12		2059 / 375		12	2	15	FAN COILS FC-1.1 - 1.3 & FC-2.1-2.3	4	M		75	0.45%
1.80%	55		M	5	HPC-2 (ROOF)	20	2	12			2059 / 375	12			"	6	M			
			M	7	"			12	2059 / 426			12	2	15	FAN COILS FC-3 & FC-4	8	M		80	0.54%
1.63%	50		M	9	HPC-3 (ROOF)	20	2	12		2059 / 426		12			"	10	M			
			M	11	"			12			2059 / 1428	12	1	20	UNIT HEATERS UH-1, UH-2, UH-3	12	M		75	2.95%
3.40%	95		M	13	HPC-4 (ROOF)	35	2	10	3598 / 667			12	3	15	UH-4 ELECTRIC UNIT HEATER	14	M		120	1.10%
			M	15	"			10		3598 / 667		12			"	16	M			
1.23%	45		M	17	DS-1 (OUTDOOR UNIT)	20	2	12			1716 / 667	12			"	18	M			
			M	19	"			12	1716			12	1	20	SPARE	20	M		105	
1.89%	75		M	21	AC-1 (ROOF)	40	2	10		2537 / 1284		12	1	20	ECH-1	22	M		20	0.71%
			M	23	"			10			2537 / 1284	10	1	20	ECH-2	24	M		110	2.43%
1.46%	90		M	25	AC-2 (ROOF)	40	3	8	3012 / 2100			8	3	40	AIR COMPRESSOR (AC-1)	26	M		90	1.02%
			M	27	"			8		3012 / 2100		8			"	28	M			
			M	29	"			8			3012 / 2100	8			"	30	M			
1.31%	115		M	31	EF-B (ROOF)	15	3	12	828 / 500			12	1	20	WH-1 & CP-1	32	M		95	1.31%
			M	33	"			12		828 / 100		12	1	20	EMERGENCY GAS SHUT-OFF CONTROL PANEL	34	M		75	0.21%
			M	35	"			12			828 / 720	12	1	20	ROOF	36	R		55	1.09%
			M	37	DS-1 (INDOOR UNIT)	15	2	12	52 / 510			12	2	15	ERV-1 (ROOF)	38	M		95	0.77%
			M	39	"			12		52 / 510		12			"	40	M			
				41	SPACE						1284				SPACE	42				
								CON:	18223	19607	20069									
								25%:	0	0	0									
								SUB:	0	0	0									
								TOT:	18223	19607	20069									
								AMPS	152	163	167									

PANEL NOTES:
CIRCUIT 43 - 54 ARE SPACES
VOLTAGE DROP AT PANEL IS 1.51%
MAX VOLTAGE DROP AT BRANCH CIRCUIT SHALL BE 3.49%

LOAD (VA)	LOAD TYPE LEGEND	
720	R	RECEPTACLE
0	L	LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
55895	M	MECHANICAL
0	K	KITCHEN APPLIANCE
0	N	NON-CONTINUOUS MISC.
0	C	CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

BUS RATING: 225 120/208V, 3PH, 4W
MAIN: 200 MAIN LUG ONLY
SPACES: 54 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 18 KAIC PANEL

(N) PANEL PRL1

SURFACE MOUNT, NEMA 1
LOCATION: STORAGE / UTILITY 109
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE A	PHASE B	PHASE C	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
1.93%	80	5	N	1	BEDRROOM, RR, FITNESS, LAUNDRY	20	1	12	875 / 1260			10	1	20	BUNK 132	2	N	5	105	2.26%
1.47%	90	5	N	3	KITCHEN, DAYROOM, BC SUITE	20	1	12		595 / 1080		12	1	20	BUNK 130	4	N	5	95	2.82%
0.53%	45		R	5	OFFICES, RECEPTION, R.R.	20	1	12			428 / 500	12	1	20	RR 128	6	N	5	85	1.17%
2.48%	100	5,7	N	7	EXERCISE ROOM	20	1	12	900 / 500			12	1	20	RR 131	8	N	5	85	1.17%
2.48%	100	5,7	N	9	EXERCISE ROOM	20	1	12		900 / 1260		12	1	20	BUNK 129	10	N	5	75	2.60%
2.48%	100	5,7	N	11	EXERCISE ROOM	20	1	12			900 / 1080	12	1	20	BUNK 127	12	N	5	65	1.93%
2.48%	100	5	N	13	EXERCISE ROOM	20	1	10	1440 / 1260			12	1	20	BUNK 126	14	N	5	75	2.60%
2.48%	60	5	N	15	WASHER	20	1	12		1500 / 500		12	1	20	CAPT. R.R. 124	16	N	5	45	0.62%
1.49%	60	5	N	17	DRYER	20	1	12			900 / 1260	12	1	20	CAPT. BUNK 125	18	N	5	55	1.91%
2.60%	75	5	N	19	DINING/DAYROOM/HALLWAY	20	1	12	1260 / 1440			12	1	20	BC SUITE	20	N	5	75	2.97%
2.97%	75	5	N	21	DINING/DAYROOM/HALLWAY	20	1	12		1440 / 500		12	1	20	BC SUITE RR	22	N	5	75	1.03%
1.44%	35		K	23	ICE MACHINE IN RM 108	20	1	12			1500 / 900	12	1	20	REFRIGERATOR	24	K	5	70	1.73%
0.69%	35		R	25	STATION OFFICE	20	1	12	720 / 900			12	1	20	RERIGERATOR	26	K	5	70	1.73%
0.52%	35		R	27	STATION OFFICE CONTROLLED	20	1	12		540 / 1500		12	1	20	APPLIANCE	28	N	5	70	2.89%
1.29%	65		R	29	BC OFFICE - 116	20	1	12			720 / 500	12	1	20	STOVE/HOOD FAN LIGHT	30	K	5	70	0.96%
0.97%	65		R	31	BC OFFICE CONTROLLED	20	1	12	540 / 1500			12	1	20	APPLIANCE	32	N	5	80	3.30%
0.82%	55		R	33	TREATMENT	20	1	12		540 / 1500		12	1	20	APPLIANCE	34	N	5	80	3.30%
1.34%	45		R	35	RECEPTION LOBBY, PUBLIC RR	20	1	12			1080 / 1500	12	1	20	DISHWASHER	36	K	5	80	3.30%
0.62%	25		R	37	SHOP	20	1	12	900 / 1500			12	1	20	DISPOSAL	38	K	5	80	3.30%
0.62%	25		R	39	SHOP	20	1	12		900 / 4000		8	2	50	ELECTRICAL OVEN	40	K	3	70	1.75%
1.55%	100		R	41	SITE PATIO	20	1	10			900 / 4000	8			ELECTRICAL OVEN	42	K	3	70	1.75%
								CON:	14995	16755	16168									
								25%:	0	0	0									
								SUB:	5574	6933	6628									
								TOT:	20569	23688	22796									
								AMPS	171	197	190									

100AMP 3 POLE SUBFEED BREAKER FOR PANEL PRL2

NOTE: 43-54 ARE SPACE
VOLTAGE DROP AT PANEL IS 1.51%
MAX VOLTAGE DROP AT BRANCH CIRCUIT SHALL BE 3.49%

LOAD (VA)	LOAD TYPE LEGEND	
7268	R	RECEPTACLE
0	L	LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
0	M	MECHANICAL
14800	K	KITCHEN APPLIANCE
25850	N	NON-CONTINUOUS MISC.
0	C	CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

BUS RATING: 100 120/208V, 3PH, 4W
MAIN: 100 MAIN LUG ONLY
SPACES: 30 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 10 KAIC PANEL

(N) PANEL PRL2

SURFACE MOUNT, NEMA 1
LOCATION: MECHANICAL ROOM 104
WITH EQUIPMENT GND BUS

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE A	PHASE B	PHASE C	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
0.12%	15		L	1	LIGHTING CONTROL PANEL	20	1	12	300 / 415			12	1	20	BUILDING	2	L	1	125	1.43%
2.19%	65		L	3	APP BAY	20	1	12		1224 / 426		10	1	20	SITE LIGHTING BACK/SIDE	4	L	1	190	1.39%
0.45%	30		L	5	SUPPORT AREA	20	1	12			540 / 298	10	1	20	SITE LIGHTING (FRONT)	6	L	1	160	0.82%
0.40%	20		R	7	SUPPORT AREA	20	1	12	720 / 300			12	1	20	FIRE ALARM CIRCUIT	8	N	2	15	0.12%
0.89%	45		R	9	SUPPORT AREA	20	1	12		720 / 100		12	1	20	SPRINKLER BELL	10	N		30	0.08%
1.44%	35		R	11	WASHER	20	1	12			1500 / 1500	12	1	20	APP. BAY CORD DROP	12	R		65	2.68%
0.87%	35		R	13	DRYER	20	1	12	900 / 1500			12	1	20	APP. BAY CORD DROP	14	R		65	2.68%
0.17%	20		N	15	IRRIGATION CONTROL	20	1	12		300 / 1500		12	1	20	APP. BAY CORD DROP	16	R		65	2.68%
2.06%	50		N	17	MOTORIZED GATE (SOUTH)	20	1	12			1500 / 1080	12	1	20	APP. BAY	18	R		65	1.93%
				19	SPACE				1260			12	1	20	APP. BAY	20	R		85	2.95%
1.24%	20		N	21	SAUNA	20	1	12		2250					SPACE	22				
				23	SPACE										SPACE	24				
				25	SPACE										SPACE	26				
				27	SPACE										SPACE	28				
				29	SPACE										SPACE	30				
								CON:	5395	6520	6418									
								25%:	179	413	210									
								SUB:	0	0	0									
								TOT:	5574	6933	6628									
								AMPS	46	58	55									

VOLTAGE DROP AT PANEL IS 2.61%
MAX VOLTAGE DROP AT BRANCH CIRCUIT SHALL BE 2.39%

LOAD (VA)	LOAD TYPE LEGEND	
10680	R	RECEPTACLE
3203	L	LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
0	M	MECHANICAL
0	K	KITCHEN APPLIANCE
4450	N	NON-CONTINUOUS MISC.
0	C	CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

MSB DISRIBUTION SECTION

BUS RATING: 600A, 120/208V, 3PH, 4W
NEMA 3R
AIC RATING: 65K

CKT NO.	DIST (FT)	PANEL/LOAD	TRIP	POLES	COND SIZE	CONNECTED VA (AMPS) PHASE A	PHASE B	PHASE C	CALC TYPE
		DISTRIBUTION				%VD			
1		PANEL "DP"	500	3	NOTE 4	56352 (469.6A)	63295 (527.5A)	62325 (519.4A)	
2		GENERATOR BATTERY CHARGER	20	1	12	1500 (12.5A)			
3		GENERATOR BLOCK HEATER	20	1	12		1500 (12.5A)		
4		MOTORIZED GATE	20	1	12			1200 (10.0A)	
5		SPARE	20	1		0			
6		FUEL DISPENSER	20	1	12		900 (7.5A)		
7		PLUG	20	1	12			360 (3.0A)	
8		SPD	60	3	6	0	0	0	
9		FUTURE VEHICLE CHARGING STATION	40	2		4160 (34.7A)	4160 (34.7A)	0	
10		FUTURE VEHICLE CHARGING STATION	40	2		0	4160 (34.7A)	4160 (34.7A)	
11		FUTURE VEHICLE CHARGING STATION	40	2		4160 (34.7A)	0	4160 (34.7A)	
12		SPACE				0	0	0	
13		SPACE				0	0	0	
14		SOLAR READY		3		0	0	0	
					KVA (AMPS):	66.17 (551.4A)	74.01 (616.8A)	72.20 (601.7A)	

Total KVA 212.39
Total Amps 590

VD CALCULATION TYPE
CON CONNECTED LOAD
CB 80% OF BREAKER RATING

PANEL SCHEDULE NOTES

1. TO LIGHTING CONTROL PANEL. SEE DIAGRAM 1/E-003..
2. PROVIDE RED HANDLE AD LOCKING DEVICE ON THIS CIRCUIT BREAKER TO MEET PROVIDE CIRCUIT BREAKER LOCKING DEVICE TO MEET CEC 760.41 (B). THE RED IDENTIFICATION SHALL NOT DAMAGE THE OVERCURRENT PROTECTIVE DEVICE OR OBSCURE THE MANUFACTER'S MARKING.
3. VERIFY LOAD, CB AND CONDUCTOR SIZE WITH EQUIPMENT.
4. SEE SINGLE LINE DIAGRAM FOR CONDUCTOR SIZE.
5. "AFCI" BREAKER REQUIRED.
6. PROVIDE THIS BREAKER AS A SUB-FEED BREAKER.
7. COORDINATE DEDICATED CIRCUIT IN EXERCISE ROOM WITH OWNER'S EQUIPMENT PRIOR TO ROUGH-IN.

NOTE: PANELS SHALL BE ABLE TO ACCEPT FUTURE SQUARED D BRANCH CIRCUIT POWERING MONITORING "BCPM" TO COMPLY TO ENERGY CODE 2019 130-5(B

BUS RATING: 600 120/208V, 3PH, 4W
MAIN: 500 MAIN BREAKER
SPACES: 54 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 18 KAIC PANEL

(N) PANEL DP

SURFACE MOUNT, NEMA 1
LOCATION: STORAGE / UTILITY 109
WITH EQUIPMENT GND BUS
SERVICE ENTRANCE RATED

CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE A	PHASE B	PHASE C	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
1.03%	75	3	N	1	APP. BAY FOLDING DOORS	20	3	10	1600			6	3	60	SURGE PROTECTION DEVICE	2	N			
			N	3	"			10		1600		6			"	4	N			
			N	5	"			10			1600	6			"	6	N			
2.45%	95	3	N	7	APP. BAY SECTIONAL DOORS	20	1	10	1500 / 5000			8	3	70	20HP SCBA (15kW)	8	N	3	105	2.83%
2.71%	105	3	N	9	APP. BAY SECTIONAL DOORS	20	1	10		1500 / 5000		8			"	10	N			
2.97%	115	3	N	11	APP. BAY SECTIONAL DOORS	20	1	10			1500 / 5000	8			"	12	N			
2.26%	105	3	N	13	DRYING CABINET	35	3	8	4000 / 2100			10	3	30	5HP WASHER EXTRACTOR	14	N	3	110	1.99%
			N	15	"			8		4000 / 2100		10			"	16	N			
			N	17	"			8			4000 / 2100	10			"	18	N			
0.64%	65		R	19	CATV COMPANY	20	1	12	360				3	100	FUTURE PROVISION FOR PV SYSTEM	20				
1.61%	65		R	21	RADIO RACK	20	1	12		900					"	22				
1.61%	65		R	23	RADIO RACK	20	1	12			900				"	24				
1.36%	55		R	25	COMM. RACK	20	1	12	900 / 1500			12	1	20	CHARGING STATION	26			30	1.24%
1.36%	55		R	27	COMM. RACK	20	1	12		900 / 1500		12	1	20	CHARGING STATION	28			30	1.24%
0.54%	55		R	29	TELEPHONE COMPANY	20	1	12			360 / 1500	12	1	20	CHARGING STATION	30			30	1.24%
0.21%	15		N	31	FUEL MONITORING PANEL	20	1	12	500 / 100			12	1	20	SMOKE ALARM	32		5		
				33	SPARE					2500		10	2	30	SHOP 30AMP OUTLET	34			30	0.75%
				35	SPARE						2500	10			"	36			30	0.75%
0.01%	20	6		37	SUBFEED PRL1	200	3	NOTE 4	20569 / 18223			NOTE 4	3	200	SUBFEED PM	38		6	15	0.01%
				39	"					23688 / 19607					"	40				
				41	"						22796 / 20069				"	42				
								CON:	56352	63295	62325									
								25%:	0	0	0									
								SUB:	0	0	0									
								TOT:	56352	63295	62325									
								AMPS	470	527	519									

VOLTAGE DROP AT PANEL IS 1.46%
MAX VOLTAGE DROP AT BRANCH CIRCUIT SHALL BE 3.54%
CIRCUIT SPACE 37 THROUGH 42 ARE SPACES NOT BLANKS.
CIRCUIT SPACES 43 THROUGH 54 ARE ALLOCATED FOR THE SPD.

LOAD (VA)	LOAD TYPE LEGEND	
4320	R	RECEPTACLE
0	L	LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
0	M	MECHANICAL
0	K	KITCHEN APPLIANCE
43100	N	NON-CONTINUOUS MISC.
0	C	CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

LOAD SUMMARY

3057 SQUARE FOOT DWELLING UNIT

CEC TABLE 220.42
3321 X 3VA/SF = 9,963 VA

SMALL APPLIANCES LOADS CEC 220.52
(3)KITCHEN APPLIANCE CIRCUITS @1500VA = 4,500 VA

LAUNDRY CIRCUIT
(2)WASHER = 3,000 VA
(2) DRYER = 1,800 VA
TOTAL = 19,263 VA

TABLE 220.42 DEMAND FACTOR
1ST 3000VA @100% = 3,000 VA
REMAINDER @35% = 5,629 VA
TOTAL = 8,629 VA

TOTAL APPLIANCES LOAD CEC 220.53
75% OF APPLIANCE LOADS = 5,100 VA
(1) DISHWASHER @ 1500VA
(1)GAS STOVE @ 500VA
(2) REFRIGERATOR @ 900VA
(1)DISPOSAL @ 1500VA
(1)ICE MACHINE@ 1500VA
= 6,800 VA

TOTAL ELECTRICAL RANGE LOAD CEC 220.55
80% AT 8KVA = 6,400 VA

TOTAL RESIDENTAIL LOADS = 20,129 VA

NON-DWELLING RECEPTACLE DEMAND LOADS CEC 220.44
7268VA (PRL1) + 10, 680VA (PRL2) = 17,948 VA

FIRST 10,000VA @100% = 10,000 VA
REMAINING @ 50% = 3,974 VA

TOTAL RECEPTACLE LOADS = 13,974 VA

TOTAL HVAC LOAD CEC 220.51
100% OF HVAC LOAD = 57,899 VA

TOTAL NON RESIDENTIAL LIGHTING
3203 X 125% = 4,004 VA

TOTAL RECEPTACLE/NON-CONTINUOUS LOADS (NON-RESIDENTIAL)

AT PANEL DP
CHARGING STATIONS @ 4.5 KVA
WASHER EXTRACTOR @ 6.3 KVA
SCBA @15 KVA
DRYER CABINET @12 KVA
APP. BAY DOORS @ 9.3 KVA
COMM. ROOM @ 5KVA
= 52.1 KVA

TOTAL "DP" LOAD AT FIRE STATION = 148,106 VA (411A)

TOTAL SITE LOAD AT MSB = 30,420 VA (85A)

LOAD SUMMARY AT MSB: DP + SITE LOADS
178,526VA AT 120/208V 3 PHASE, = **496A**
SERVICE SIZE = **600AMPS**
GENERATOR SIZE = **150KW/187.5KVA**

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER — JEFFREY M. THOMA — ELECTRICAL — STATE OF CALIFORNIA

EXPIRES: 09/30/26
THOMA #22-8049

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DRAWINGS FOR PUBLIC AGENCY REVIEW SHALL NOT CONSTITUTE PUBLICATION IN DEROGATION OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2025
RRM IS A CALIFORNIA CORPORATION

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

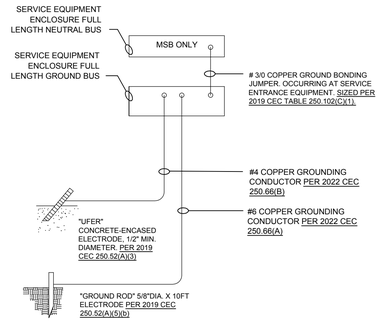
PANEL SCHEDULES

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: CJ
DRAWN BY: TR
CHECKED BY: CJ, JT
DATE: MAY 5, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: E-004

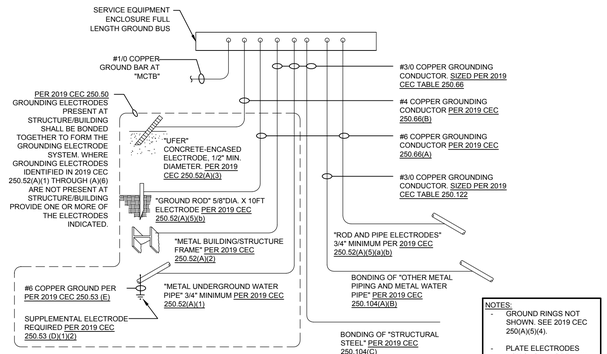
County of Madera – Community Development Department
Approved for the 2022 California Building and Fire Safety Codes
Building & Safety Division
Plans and Ordinances, not valid without signature

Apr 30, 2026 - 7:54am - Chris - K:\ENG\2022\22-904\22-9049__E004_PANEL SCHEDULES.dwg



1 GROUND BOND DETAIL AT MSB

NTS



2 GROUND BOND DETAIL AT DP

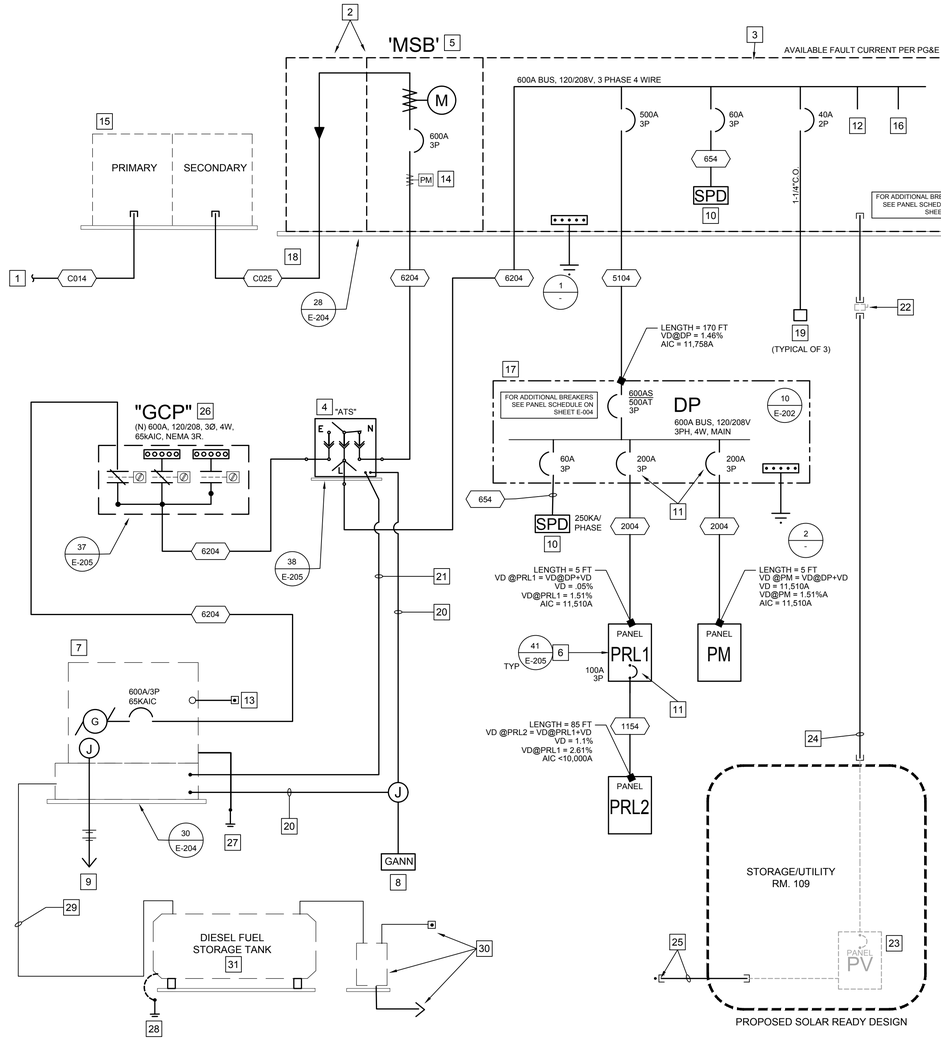
NTS

COPPER FEEDER SCHEDULE

FEEDER NO.	RACEWAY QUANTITY/SIZE	CONDUCTORS
CO14	(1)4"C	CONDUIT ONLY WITH PULL ROPE.
CO25	(2)5"C	CONDUIT ONLY WITH PULL ROPE.
5104	(2)3"C	(4)#250 MCM THWN & (1)#1 CU GND EACH
6204	(2)4"C	(4)#350 MCM THWN & (1)#3/0 CU GND EACH
2004	(1)2"C	(4)#3/0 THWN & (1)#6 CU GND.
1154	(1)1-1/2"C	(4)#2 THWN & (1)#6 CU GND.
654	(1)1"C	(4)#6 THWN & (1)#8 CU GND.

3 COPPER FEEDER SCHEDULE

NTS



☐ REFERENCE NOTES

1. (1)4" PRIMARY CONDUIT PER PG&E REQUIREMENTS.
2. UTILITY APPROVED UNDERGROUND PULL SECTION AND METER/MAIN. THE MAIN SERVICE DISCONNECT SHALL BE MARKED PERMANENTLY. CEC 230.70(B).
3. DISTRIBUTION SECTION.
4. FLOOR MOUNT AUTOMATIC-TRANSFER SWITCH THREE POLE SOLID NEUTRAL WITH BY-PASS ISOLATION SWITCH (600AMP, 120/208V, 3Ø, 4 WIRE, NEMA 3R). ASCO #JATB SERIES.
5. THREE-SECTION MAIN SWITCHBOARD "MSB". (600AMP BUS, 120/208V, 3Ø, 4 WIRE, NEMA 3R).
6. BRANCH CIRCUIT PANELBOARD (TYP OF 4).
7. STANDBY (ARTICLE CEC 702) DIESEL GENERATOR, 150KW/187.5KVA, 120/208V, 3Ø, 4W, WITH NEMA 3R AND LEVEL 2 SOUND ENCLOSURE. (TIER 4 FINAL IBC-CERTIFIED). BLUE STAR #VD150-02FT4 FACTORY ENCLOSURE). MAIN BREAKER SHALL BE LOCKABLE IN THE OPEN POSITION IN ACCORDANCE WITH CEC 445.18. PROVIDE MAXIMUM AVAILABLE SHORT-CIRCUIT CURRENT AT ITS TERMINAL PER 702.4(A). SPECIFY 65KAIC. (10.7 GALLON/HOUR AT 100% LOAD)
8. REMOTE GENERATOR ANNUNICATOR PANEL.
9. PROVIDE BRANCH CIRCUIT(S) FOR GENERATOR BLOCK HEATER AND BATTERY CHARGER. VERIFY REQUIREMENTS WITH GENERATOR SUPPLIER / MANUFACTURER.
10. SURGE PROTECTION DEVICE. MOUNT INTEGRAL WITH "MSB" AND "DP". 240KA PER PHASE.
11. SUB FEED BREAKERS.
12. BUS SPACE. (REFER TO SCHEDULE ON SHEET E-004)
13. REMOTE EMERGENCY SHUT-OFF FOR GENERATOR. PROVIDED BY MANUFACTURER. EC TO PROVIDE ROUGH-IN BOX AND 3/4"C CONDUITS TO GENERATOR. COORDINATE WITH MANUFACTURER FOR TERMINATION POINT WITHIN THE GENERATOR AND WIRE REQUIREMENTS. PROVIDE ENGRAVED PLACARD (RED ON WHITE) "GENERATOR EMERGENCY SHUT-OFF".
14. PROVIDE CUSTOMER METERING PER ENERGY CODE SECTION 130.5(A). PROVIDE FEATURES FOR INSTANTANEOUS KW DEMAND AND RESETTABLE KWH.
15. NEW UTILITY TRANSFORMER PER PG&E REQUIREMENTS. (REFER TO SITE PLAN)
16. RESERVE A 100AMP 3POLE SPACE. PERMANENTLY MARK AS "SOLAR ELECTRIC".
17. DISTRIBUTION PANELBOARD. (SQUARE D NQ PANEL)
18. SECONDARY SERVICE CONDUITS PER PG&E REQUIREMENTS.
19. PROVIDE 40AMP/2P SPARE BREAKER FOR FUTURE CONNECTION EV CHARGING STATION. STUB TO SITE 8" ROUND PULL BOX. (SEE SHEET E-101 FOR LOCATION) TYPICAL OF THREE LOCATION.
20. 3/4"C (CONTROL WIRING) PER MANUFACTURER REQUIREMENTS.
21. 3/4"C (START/STOP CONTROL WIRING) PER MANUFACTURER REQUIREMENTS.
22. FUTURE PHOTOVOLTAIC SYSTEM 100A 3Ø FUSED AC DISCONNECT SWITCH WITHIN 10FEET FROM METER. REFER TO ENLARGED SITE PLAN ES-102 FOR EXACT LOCATION. STUB/CAP 2"C FROM "MSB" AND FROM FUTURE PANEL OR INVERTER.
23. FUTURE PV PANELOR INVERTER. REFER TO PLANS.
24. 2"C.O. STUB UNDERGROUND FEEDER CONDUIT STUB TO SOLAR EQUIPMENT AREA FOR FUTURE CONNECTION TO PANEL "PV" OR INVERTER. (ROOM 109)
25. ROOF MOUNTED (2)1" CONDUIT (STUB AND CAP) FOR FUTURE CONNECTION TO SOLAR PANELS. RUN (2)1"C.O. DOWN TO ROOM CEILING SPACE FOR FUTURE CONNECTION TO PANEL "PV" OR INVERTER. REFER TO ELECTRICAL ROOF PLAN SOLAR ZONE.
26. WALL MOUNTED NEW PORTABLE GENERATOR CONNECTION PANEL (GCP), TRIPLE SWITCH 3-WAY MANUAL TRANSFER SWITCH TO ALLOW FOR CONNECTIONS TO PORTABLE GENERATOR AND LOAD BANK PER CEC 700.3(F). (ESL POWER SYSTEM, INC #MSD 400C 400C 400C 208 3 1 1X C OR APPROVED EQUAL). ALL FIELD WIRING TERMINATION SHALL BE TORQUE AS REQUIRED PER THE INSTRUCTIONS ON THE POWER DISTRIBUTION BLOCK. CIRCUIT BREAKER AND GROUND LUG. PRIOR TO ENERGIZING, THE CONTRACTOR SHALL PERFORM FIELD TESTING PER MANUFACTURE'S RECOMMENDATION. PROVIDE SPECIAL SEISMIC CERTIFICATION EXCLUSIVELY ON THE BASIS OF APPROVED SHAKE TABLE TESTING, AND ALSO CERTIFIED BY IBC. MANUAL TRANSFER SWITCH MANUFACTURER SHALL PROVIDE A COMPLETE FACTORY ASSEMBLED, WIRED AND TESTED MANUAL TRANSFER SWITCH.
27. PROVIDE GROUND ROD AT GENERATOR PAD IN FLUSH MOUNTED CONCRETE GROUND BOX. BOND TO GENERATOR GROUND BUS, METALLIC BASE FRAME AND HOUSE (NOTE GENERATOR IS NOT DESIGNED AS A SEPARATELY DERIVED SYSTEM NOT NEUTRAL TO GROUND BONDING JUMPER IS INSTALL AT GENSET
28. PROVIDE GROUND ROAD AT CONVAULT PAD IN FLUSH MOUNTED CONRETE GROUNDING BOX. BOND/CONNECT TO CONVAULT GROUND LUGS. PROVIDE #2/0 BARE COPPER GROUND CONDUCTOR.
29. FUEL/SUPPLY PIPES PER PLUMBING PLAN. ADD CHECK VALVE ON THE RETURN LINE TO PREVENT SIPHONING TOWARDS THE INJECTORS FROM THE RETURN LINE, AND TO ADD A FUEL SHUTOFF SOLENOID VALVE AT GRADE/GROUND LEVEL TO SHUTOFF FUEL AND REDUCE THE PRESSURE ON THE INJECTORS FROM THE FUEL LEVEL IN THE TANK. THE SHUTOFF VALVE WOULD BE CONTROLLED BY A RELAY ON THE GENSET SO THAT OPENS WHEN THE ENGINE IS STARTING AND CLOSES WHEN THE GENSET HAS STOPPED RUNNING.
30. PROVIDE 120V CONNECTION TO REMOTE STANDING FUEL DISPENSER. REFER TO SHEET ES-102 NOTE 2 FOR DISPENSER EMERGENCY SHUT-OFF LOCATION.
31. DIESEL FUEL TANK. PROVIDE FUEL LOW LEVEL DISPENSING SHUTOFF, TO ENSURE GENERATOR HAS 48 HOURS OF GENERATOR FUEL AT FULL LOAD. REFER TO PLUMBING DRAWINGS.

SINGLE LINE DIAGRAM NOTES

A. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT AND COORDINATE WITH THE SERVING UTILITY TO ENSURE ALL SERVING UTILITY REQUIREMENTS ARE MET.

B. SERVICE ENTRANCE EQUIPMENT SHALL BE IN ACCORDANCE WITH THE SERVING ELECTRIC UTILITY COMPANY'S REQUIREMENTS.

C. ALL CONDUCTORS SHALL BE COPPER WITH TYPE [THHN/THWN] INSULATION UNLESS OTHERWISE NOTED. UNDERGROUND CONDUCTORS SHALL BE LISTED FOR WET LOCATION.

D. 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.

E. ALL INSTALLED MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITERS LABORATORY (U.L.) OR LISTED NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) APPROVED BY A CITY OF LONG BEACH BUILDING DEPARTMENT.

F. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SUPPLYING SWITCHGEAR SIZED TO FIT IN THE AVAILABLE SPACE . REFER TO ARCHITECTURAL PLANS FOR DIMENSIONAL INFORMATION NOT SHOWN ON THE ELECTRICAL PLANS. CONTRACTOR SHALL SUBMIT A 1/4" SCALE DRAWING OF ALL SWITCHGEAR, AND TERMINATION CABINETS ON FLOOR PLAN WITH SUBMITTAL.

G. PROVIDE TEMPORARY CONSTRUCTION POWER TO CONSTRUCTION SITE.

H. DESIGN SHOWN IS BASED ON ABB PRODUCT. ENGINEER-APPROVED EQUAL ALTERNATE PRODUCT WILL BE ACCEPTABLE.

I. EMERGENCY LIGHTING SYSTEM AND EXIT LIGHTS SHALL BE CHECKED AND APPROVED BY THE FIRE DEPARTMENT BEFORE THE APPROVAL OF THE FINAL PLANS.

J. 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 GUIDLINES. (SEE DETAIL 1/E401).

K. SERIES RATED PANELBOARDS ARE NOT PERMITTED. ALL PANELS ARE BOLT-ON BREAKERS. LOAD CENTERS ARE NOT PERMITTED.

L. PER CALIFORNIA TITLE 24 SECTION 130.5, WIRING PROVISIONS HAVE BEEN MADE FOR DISAGGREGATION OF THE ELECTRICAL CIRCUITS, THE OPTIONAL METERING HAS NOT BEEN PROVIDED FOR THIS PROJECT.

M. REFER TO PANEL SCHEDULES FOR INDIVIDUAL BRANCH CIRCUIT VOLTAGE DROP.

N. 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. TYPICAL.

O. PROVIDE COMPLETE SHORT CIRCUIT AND COORDINATION STUDY PER SPECIFICATION 26 05 73. ELECTRICAL SERVICE EQUIPMENT SHALL BE LEGIBLY-MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. (AFC) THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED PER CEC 110.24.

P. PROVIDE ARC FLASH HAZARD ANALYSIS PER SPECIFICATION 26 05 73. ELECTRICAL EQUIPMENT LIKELY TO REQUIRED EXAMINATION, ADJUSTMENT, SERVICING OR MAINTEANCE WHILE ENERGIZED SHALL BE FIELD OR FACTORY-MARKED TO WARN QUALIFIED PERSON OF POTENTIAL ELECTRICAL ARC FLASH HAZARDS. PROVIDE ARC-FLASH LABELING COMPLIANT WITH CEC 110.16

Q. NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHAL LBE PERMITTED TO BE LOCATED WITH THE DEDICATED SPACE ABOVE THE ELECTRICAL PANELBOARDS (CEC 110.26(F)

R. METAL WATER PIPING SYSTEM QUALIFYING AS A GROUNDING ELECRODE PER CEC 250.52(A)(1) MUST BE BONDED WITHIN 5 FEET OF ENTERING THE BUILDING PER CEC 250.68(C)(1).

S. ALL SWITCHBOARD, SWITCHGEAR, PANELBOARDS, AND MOTOR CONTROL CENTERS SHALL BE LOCATED IN DEDICATED SPACES AND PROTECTED FROM DAMAGE PER CEC 110.26 E(1) AND/OR (2).

T. SERVICE CONDUCTORS ARE TO BE OUTSIDE THE BUILDING PER CEC 230.6

U. ACCESS AND WORKING SPACE MUST BE PROVIDED ABOUT ELECTRICAL EQUIPMENT REQUIREING OPERATION AND MAINTENACE PER CEC 110.26

SPECIAL SEISMIC CERTIFICATION (SSC) SUBMITTAL TABLE

APPLICABLE ELECTRICAL EQUIPMENT TYPE OR NONSTRUCTURAL COMPONENT	EMERGENCY GENERATOR	EMERGENCY DIESEL FUEL TANK	EMERGENCY AUTOMATIC TRANSFER SWITCHES	EMERGENCY POWER SWITCHGEAR, ELECTRICAL SWITCHBOARDS, SWITCHBOARDS AND BRANCH FRAMES	FIRE ALARM CONTROL PANEL ("FACP"	COMMUNICATION RACKS
APPLICABLE TO THE PROJECT	YES	YES	YES	YES	YES	YES

SEISMIC QUALIFICATION:
SUPPLIER SHALL PROVIDE MANUFACTURERS CERTIFICATION THAT THE EQUIPMENT LISTED ABOVE FOR USE ON THIS PROJECT HAS BEEN REVIEWED AND CERTIFIED BY THE MANUFACTURER TO MEET THE CURRENT CRITERIA FOR SPECIAL SEISMIC CERTIFICATION IN COMPLIANCE WITH CBC 1705.12.3. INCLUDE SEISMIC COMPANION ANCHORAGE REQUIREMENTS FROM THE TESTING AND AS APPROVED BY THE MANUFACTURER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FURNISH DOCUMENTATION FROM THE MANUFACTURER VERIFYING COMPLIANCE DURING SUBMITTAL PROCESS.

STANDBY GENERATOR POWER SYSTEM NOTE

A. GENERATOR IS CLASSIFIED AS STANDBY SYSTEM PER CEC ARTICLE 702. A PERMANENT PLAQUE SHALL BE PLACED AT THE NORMAL SERVICE EQUIPMENT DENOTING THE TYPE & LOCATION OF THE ON-SITE STANDBY POWER GENERATOR (702-7A.) THE PLAQUE SHALL IDENTIFY THE CONNECTION OF THE GROUNDING ELECTRODE CONDUCTOR WHEN THAT CONNECTION IS AT A LOCATION REMOTE FROM THE GENERATOR. (CEC 702-7B), AND AT PORTABLE CONNECTION PANEL "GCP" PROVIDE SIGNAGE DISPLAY (702-7C).

B. THE FOLLOWING EQUIPMENT SHALL BE UL LISTED AS INDICATED:

- STATIONARY GENERATORS 600V OR LESS IN NON-HAZARDOUS LOCATIONS - (UL2200)
- NON EMERGENCY UNINTERRUPTIBLE POWER SYSTEMS (UPS) - (UL1778)
- EMERGENCY RATED UNINTERRUPTIBLE POWER SYSTEMS (UPS) - (UL924)
- EMERGENCY LIGHTING AND POWER EQUIPMENT (UL 924)
- TRANSFER SWITCH EQUIPMENT (UL 1008)
- EMERGENCY RATED LOW LEVEL PATH MARKING AND LIGHTING SYSTEMS - (UL1994)

D. GENERAL INSTALLATIONS ARE REQUIRED TO COMPLY WITH THE CURRENTLY ADOPTED EDITIONS OF NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARDS 30, 37, 110. IF BATTERY EQUIPMENT IN THE GENERATOR PROJECT, IT IS REQUIRED TO COMPLY NFPA 111. THE LEVEL OF COMPLIANCE MUST BE IN ACCORDANCE WITH THE GENERATOR'S FUNCTION AS AN EMERGENCY POWER SYSTEM OR A STANDBY POWER SYSTEM AS DEFINED BY THE CALIFORNIA FIRE CODE. PLAN SUBMITTALS ARE REQUIRED TO INCLUDE ALL SPECIFICATIONS OF THE EQUIPMENT TO BE INSTALLED ALONG WITH THE ELECTRICAL PLANS AND LOAD CALCULATIONS; ALL EQUIPMENT MUST LISTED. TESTING AND ACCEPTANCE CRITERIA ARE STRICTLY OBSERVED. INSTALLATION AND ACCEPTANCE TEST REPORTS IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS ARE REQUIRED TO BE PROVIDED TO THE FIRE DISTRICT. WORKING CLEARANCES AND CLEARANCES TO THE BUILDING BASED ON THE FUEL CAPACITY MUST BE OBSERVE. AQMD PERMITS ARE REQUIRED WITH THE PLAN CHECK SUBMITTALS. DUAL FUEL GENERATORS MAY BE REQUIRED BY AQMD FOR TESTING PURPOSES. THE GENERATOR OPERATION MUST BE MONITORED REMOTELY B A QUALIFIED ALARM SUPERVISING STATION. A SEPARATE SUBMITTAL IS REQUIRED FOR THE ALARM CONNECTION.

E. PRELIMINARY ATS SETTING AR AS FOLLOWS.
START TIME DELAY: 10 SECONDS
RETRANSFER TIME DELAY: 5 MINUTES
STOP TIME DELAY: THE FINAL ATS SETTINGS SHALL BE DETERMINED BY TESTING COMPANY.

F. EMERGENCY LIGHTING IS PROVIDED VIA 90 MINUTE INTEGRAL BATTERY PACKS. REFER TO THE LIGHTING PLANS ON PERMIT SET SHEETS E003 AND E-101.

G. CEC 445.13 THE AMPACITY OF THE CONDUCTORS FROM THE GENERATOR OUTPUT TERMINALS TO THE FIRST DISTRIBUTION DEVICE(S) CONTAINING OVERCURRENT PROTECTION SHALL NOT BE LESS THAN 115 PERCENT OF THE NAMEPLATE CURRENT RATING OF THE GENERATOR. IT SHALL BE PERMITTED TO SIZE THE NEUTRAL CONDUCTORS IN ACCORDANCE WITH 220.61. CONDUCTORS THAT MUST CARRY GROUND-FAULT CURRENTS SHALL NOT BE SMALLER THAN REQUIRED BY 250.30(A), NEUTRAL CONDUTORS OF DC GENERATORS THAT MUST CARRY GROUND-FAULT CURRENTS SHALL NOT BE SMALLER THAN THE MINIMUM REQUIRED SIZE OF THE LARGEST CONDUCTOR. WITH INFORMATION BELOW GENERATOR INSTALLATION MEETS CEC 445.13.

- GENERATOR FULL LOAD CURRENT: 187.5KVA / 208V PHASE = 521AMPS
- REQUIRED AMPACITY PER CEC 445.13: 115% OF GENERATOR NAMEPLATE CURRENT: 521AMPS X 1.15 = 599 AMPS
- ACTUAL CONDUCTOR AMPACITY (CEC TABLE 310.16): PARALLEL 350KCMIL = 620A > 599A
- BREAKER SIZE: 600AMP, CONDUCTOR AMPACITY (620A) > BREAKER RATING (600A)
- GROUNDING: 600A OCPD, CEC TABLE 250.66 = 3/0 CU

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER JEFFREY M. THOMA ELECTRICAL STATE OF CALIFORNIA

EXPIRES: 09/30/26
THOMA #22-8049

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DRAWINGS TO ANY AGENCY FOR REVIEW SHALL NOT CONSTITUTE PUBLICATION IN DERROGATION OF RRM'S COMMON LAW COPYRIGHT.
RRM DESIGN GROUP COPYRIGHT 2025
RRM IS A CALIFORNIA CORPORATION

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

ELECTRICAL SINGLE LINE DIAGRAM

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

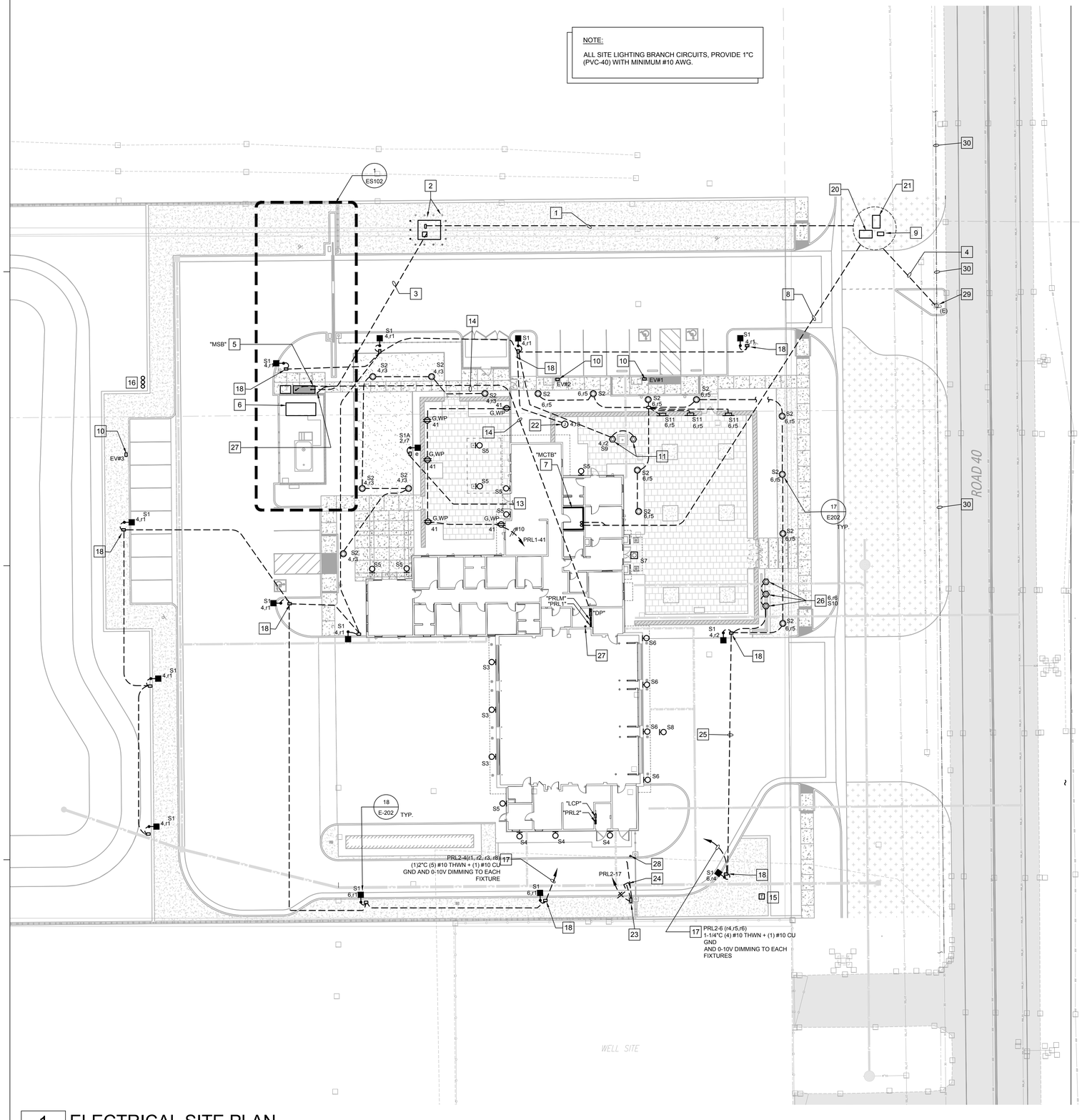
PROJECT MANAGER: CJ
DRAWN BY: TR
CHECKED BY: CJ, JT
DATE: MAY 30, 2026
PROJECT NUMBER: 2471-01-CI21

BID DOCUMENTS

Approved for Issuance Under the 2022 California Building Code
County of Madera – Community Development Department
Date: 05/04/2026
Approved by: [illegible]
Permit Number: [illegible]
Plans Approved Subject to Compliance with Applicable Codes and Ordinances, not valid without signature

SHEET E-005

Apr 30, 2026 - 7:55am - Chris - K:\ENG\2022\22-8049\22-8049__E005_ELECTRICAL SINGLE LINE DIAGRAM.dwg



1 ELECTRICAL SITE PLAN

ES-101 SCALE: 1" = 20'

REFERENCE NOTES

1. UTILITY PRIMARY 4" CONDUIT PER PG&E REQUIREMENTS. PROVIDE A MINIMUM OF 36" COVER.
2. 106" x 90" TRANSFORMER PAD PER PG&E REQUIREMENTS WITH BOLLARD PER PG&E CONSTRUCTION PLANS.
3. (2) 5" SECONDARY CONDUIT WITH PULL TAPE PER PG&E REQUIREMENTS. PROVIDE A MINIMUM OF 24" COVER.
4. AT&T, COMCAST, AND PG&E SERVICE CONDUIT TO NEW UTILITY POLE. TO BE DETERMINE BY EACH UTILITY COMPANY.
5. MAIN SWITCHBOARD, "MSB". REFER TO SINGLE LINE DIAGRAM.
6. PAD MOUNT TIER 4 DIESEL GENERATOR. REFER TO SINGLE LINE DIAGRAM.
7. MAIN COMMUNICATION TERMINAL BACKBOARD, "MCTB".
8. TELEPHONE AND CATV SERVICE CONDUITS. EXTEND TO "MCTB".
   A. (2) 4" TELEPHONE SERVICE CONDUIT WITH PULL TAPE PER UTILITY REQUIREMENTS. REFER TO AT&T REQUIREMENTS FOR TENCH DETAILS.
   B. (1) 2" CABLE TELEVISION SERVICE CONDUIT WITH PULL TAPE PER UTILITY REQUIREMENTS.
9. CATV PULL BOX. PROVIDE 17"X30"X24" PER COMCAST REQUIREMENTS.
10. 1"C.O. TO "MSB" FOR FUTURE EV CHARGING STATION CONNECTION. (REFER TO PANEL SCHEDULE). (THREE LOCATIONS). INSTALL 8" ROUND CONCRETE PULL BOX FLUSH IN GRADE.
11. NIGHT AIM AT FLAG.
12. NOT USED.
13. TO LIGHTING SWITCH. REFER TO SHEET E-101 FOR CONTINUATION.
14. FEEDER CONDUIT TO BUILDING PANEL. REFER TO SINGLE LINE DIAGRAM.
15. PROVIDE FIRE ALARM TAMPER SWITCH AT DOUBLE DETECTOR CHECK.
16. FUTURE RADIO TOWER. PROVIDE (1)4"C.O. AND (1)2"C.O. TO COMMUNICATION ROOM; (1)1"C.O. TO "MSB" FOR FUTURE GROUND. STUB AND CAP AT THIS LOCATION.
17. TO "LCP" IN MECHANICAL ROOM.
18. PROVIDE 11" X17" PULLBOX FLUSH IN-GRADE. STAMP LID "LIGHTING". TYPICAL (UON).
19. NOT USED.
20. 3'X5' PRIMARY PULL BOX (TBD) PER PG&E REQUIREMENTS.
21. PROVIDE PTS 3660 SPLICE BOX 3'X5'X4' PER AT&T PLAN. AT&T WILL EXTEND THE CONDUIT TO THE NEW PULL BOX FROM NEW DEVELOPMENT. COORDINATE WITH AT&T.
22. CONNECTION TO LANDSCAPE POWER SUPPLY FOR LOW VOLTAGE LIGHTING.
23. PROVIDE CONNECTION TO MOTORIZED GATE PER MANUFACTURER INSTALLATION INSTRUCTIONS. VERIFY REQUIREMENTS WITH GATE SUPPLIERS.
24. PROVIDE STUB(S) FOR LOOP DETECTORS. COORDINATE WITH GATE CONTRACTOR.
25. 1" BRANCH CIRCUIT CONDUIT. PROVIDE AND ADDITIONAL 2" SPARE CONDUIT BETWEEN PULL BOXES.
26. NIGHT AIM AT MONUMENT SIGN. REFER TO LANDSCAPE DRAWINGS FOR ELEVATION.
27. STUB 2" CONDUIT AT FUTURE SOLAR DISCONNECT AND FUTURE SOLAR PANEL/INVERTER PER SINGLE LINE DIAGRAM.
28. PROVIDE 3/4"C TO SENSOR. VERIFY EXACT LOCATION WITH GATE CONTRACTOR PRIOR TO ROUGH-IN.
29. EXISTING UTILITY POLE TO REMAIN.
30. EXISTING OVERHEAD LINES.

GENERAL SITE PLAN NOTES

A. UTILITY COMPANY CONTACTS: BEFORE CONSTRUCTION, COORDINATE & VERIFY ALL UTILITY COMPANY REQUIREMENTS:

FLETCHER SCHMIEDT PG&E 209-353-6830
FASK@PGE.COM
PGE APPLICATION #125338938

ADAM CRISWELL AT&T 209-412-8543
AC9040@ATT.COM

KENNETH BARNES COMCAST 559-999-4976
KENNETH_BARNES2@COMCAST.COM

B. TRENCHING AND BACKFILLING FOR ALL CONDUIT SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL CONDUITS SHALL HAVE MINIMUM COVER REQUIREMENTS AS SPECIFIED IN CEC 300-5. MORE STRINGENT DEPTH REQUIREMENTS MAY BE IMPOSED BY UTILITY COMPANY AND / OR THIS SPECIFICATION. JOINT TRENCHING MAY BE UTILIZED WHERE PRACTICABLE AND WERE PERMITTED BY THIS SPECIFICATION.

C. LOCATIONS OF EXISTING UNDERGROUND (UG) UTILITY SYSTEMS SHALL BE DETERMINED BY CALLING UNDERGROUND SERVICE ALERT (USA). WHEN PLANNING UNDERGROUND WORK, AND BEFORE YOU DIG, CONTACT UNDERGROUND SERVICE ALERT (USA) AT LEAST 48 HOURS PRIOR TO EXCAVATION (WEEKENDS EXCLUDED) FOR THE LOCATION OF UNDERGROUND GAS AND ELECTRIC LINES OR EQUIPMENT.

D. MAINTAIN REQUIRED CLEARANCES FROM ALL SANITARY SEWER, WATER AND STORM DRAIN PIPING. REFER TO CIVIL PLANS FOR EXACT LOCATIONS AND DEPTHS OF PIPING.

E. ALL SITE UTILITY WORK SHALL BE INSTALLED PER THE UTILITY COMPANY ISSUED CONSTRUCTION DRAWINGS AND SPECIFICATIONS SPECIFIC TO THIS PROJECT. ANY UTILITY WORK PERFORMED WITHOUT PRIOR UTILITY COMPANY APPROVAL SHALL BE DONE AT THE CONTRACTOR'S RISK.

F. REFER TO SHEET E-207 FOR PG&E CONSTRUCTION DRAWINGS.

AT&T COMM. SERVICES

1. MAIN POINT OF ENTRY (MPOE) MUST BE INSTALLED IN BUILDING'S DESIGNATED COMMUNICATION ROOM.
2. QTY. 1-4" CONDUIT PER AT&T GENERAL SPECIFICATION - 1 - 50 PAIR AT&T COPPER FEEDER TO BE ESTABLISHED IN MPOE. INSTALLATION MUST INCLUDE PULL TAPE.
3. QTY 1-4" CONDUIT PER AT&T GENERAL SPECIFICATIONS. - 20MBPS AT&T SWITCHED ETHERNET SERVICE (ASE) POINT TO MULTIPOINT, COPPER HAND OFF TO BE ESTABLISHED IN MPOE. INSTALLATION MUST INCLUDE PULL TAPE.

CATV SERVICE CONDUIT

1. MAIN POINT OF ENTRY (MPOE) MUST BE INSTALLED IN BUILDING'S DESIGNATED COMMUNICATIONS ROOM..
2. COMCAST CABLE TELEVISION SERVICE CONDUIT REQUIREMENTS. QTY - 1-2" CONDUIT PER COMCAST GENERAL SPECIFICATION. INSTALLATION MUST INCLUDE PULL TAPE.

BID DOCUMENTS

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER JEFFREY M. THOMA ELECTRICAL STATE OF CALIFORNIA

EXPIRES: 09/30/26
THOMA #22-8049

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DRAWINGS TO ANY AGENCY FOR REVIEW SHALL NOT CONSTITUTE PUBLICATION OR DISCLOSURE OF THE DESIGNS SHOWN.
RRM DESIGN GROUP COPYRIGHT 2025
RRM IS A CALIFORNIA CORPORATION

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

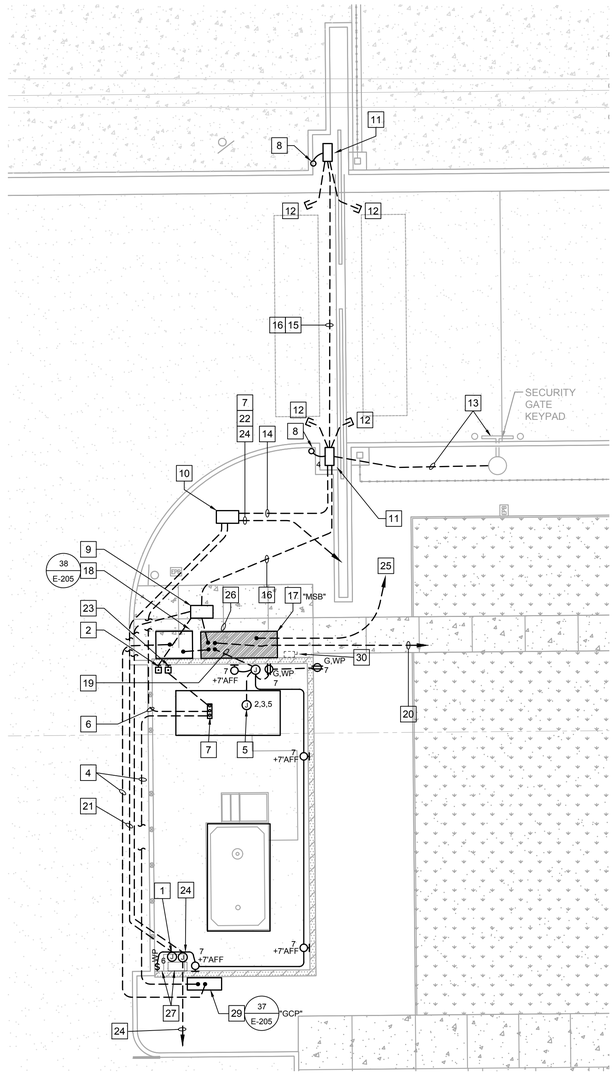
ELECTRICAL SITE PLAN

NO.	REVISION	DATE

PROJECT MANAGER	CJ
DRAWN BY	TR
CHECKED BY	CJ, JT
DATE	MAY 2026
PROJECT NUMBER	2471-01-CI21
SHEET	ES-101

County of Madera – Construction Plans Approved Under the 2022 California Residential Building Code
Date: 05/04/2026
Codes and Ordinances, not valid without signature.

Apr 30, 2026 - 7:56am - Chris - K:\ENGI\2022\22-8049\22-8049__ES101_ELECTRICAL SITE PLAN.dwg



1 ENLARGED PARTIAL ELECTRICAL SITE PLAN

ES-102 SCALE: 1/8" = 1'-0"

☐ REFERENCE NOTES

1. CONNECT TO PEDESTAL MOUNT FUEL PUMP. PROVIDE CROUSE-HINDS "EYS" SEAL FITTINGS AT ALL CONDUITS FOR FUEL DISPENSING EQUIPMENT REQUIRED BY NEC, ARTICLE 514 AND CHAPTER 5.
2. WEATHERPROOF DPST SHUT-OFF GREEN MUSHROOM PUSH-BUTTON WITH CLEAR COVER MOUNTED AT +48" AFF. PROVIDE ENGRAVED PLACARD (RED ON WHITE PLASTIC LAMINATE) ABOVE "FUEL PUMP EMERGENCY SHUT-OFF". THE "FUEL PUMP" BREAKER AND EMERGENCY DISCONNECT MUST DISCONNECT ALL CONDUCTORS INCLUDING GROUND (NEUTRAL) CONDUCTOR PER CEC 514.11(A)(B)(C). PUSH-BUTTON SHUTS OFF CIRCUITS 5 AND 6 AT MSB.
3. TIER 4 GENERATOR WITH INTEGRAL CIRCUIT BREAKER IN SOUND ATTENUATED ENCLOSURE. (REFER TO SINGLE LINE DIAGRAM ON SHEET). PROVIDE HOUSEKEEPING PAD.
4. FEEDERS TO ATS. (REFER TO SINGLE LINE DIAGRAM)
5. CONNECT TO BATTERY CHARGER, BLOCK HEATER AND SUB-BASE TANK TRANSFER PUMPS. COORDINATE WITH MANUFACTURER.
6. PROVIDE (1)CAT6A (UNDERGROUND RATED, SILICON FILLED, 4 PAIR) TO "MCTB" FOR FUTURE USE. STUB-UP IN ENCLOSURE AS DIRECTED BY GENERATOR SUPPLIER.
7. CONTROL PANEL AND CONTROL CONDUCTORS TO REMOTE STATUS ANNUNICATOR PANEL. (REFER SINGLE LINE DIAGRAM). SEE NOTE 3 ON SHEET E-121 FOR LOCATION.
8. PROVIDE 3/4"C TO SENSOR. VERIFY EXACT LOCATION WITH GATE CONTRACTOR PRIOR TO ROUGH-IN.
9. 17"X30" PULLBOX FLUSH IN GRADE. LABEL LID "ELECTRICAL".
10. 17"X30" PULLBOX FLUSH IN GRADE. LABEL LID "COMMUNICATION"
11. PROVIDE CONNECTION TO MOTORIZED GATE PER MANUFACTURER INSTALLATION INSTRUCTIONS. VERIFY REQUIREMENTS WITH GATE SUPPLIER. (TYPICAL)
12. PROVIDE STUB(S) FOR LOOP DETECTORS. COORDINATE WITH GATE CONTRACTOR.
13. STANCHION MOUNT CARD READER AND KEYPAD. PROVIDE 3/4"C.O BETWEEN MOTORIZED GATE AND KEYPAD. WIRES BY GATE CONTRACTOR.
14. PROVIDE 3/4"C TO "MCTB" VIA PULLBOX FOR TELEPHONE LINE @ CARD READER/KEYPAD. PROVIDE (1)CAT6A (UNDERGROUND RATED, SILICON FILLED, 4 PAIR) TO "MCTB" VIA COMMUNICATION PULL BOX.
15. MOTORIZED GATE CONTROL 3/4" CONDUIT.
16. (BRANCH CIRCUITS) TO ELECTRICAL PULLBOX FOR MOTORIZED GATE.
17. MAIN SWITCHBOARD. (REFER SINGLE LINE DIAGRAM).
18. FLOOR MOUNT AUTOMATIC TRANSFER SWITCH WITH BY-PASS SWITCH (NEMA 3R). (REFER TO SINGLE LINE DIAGRAM).
19. (FEEDERS) FROM "MSB" TO "ATS". (REFER TO SINGLE LINE DIAGRAM).
20. (FEEDERS) TO "DP". (REFER TO SINGLE LINE DIAGRAM).
21. (3)CAT6A (UNDERGROUND RATED, SILICON FILLED, 4 PAIR) HOMERUN TO "MCTB" VIA COMMUNICATION PULL BOX AND (1) SPARE CONDUIT TO FUEL PUMP MONITORING SYSTEM..
22. 2"C TO "MCTB" FOR NOTES 6, 14, & 21.
23. REMOTE PUSH-BUTTON FURNISHED BY GENERATOR MANUFACTURER FOR GENERATOR SHUT-OFF PER SINGLE LINE DIAGRAM. PROVIDE CLEAR COVER.
24. TO FUEL PUMP MONITORING SYSTEM PANEL. PROVIDE (4)#14 CONTROL WIRES & (1)4 CONDUCTOR SHIELDED CABLE AS PULSOR WIRE. (SEE COMMUNICATION PLAN E-121 NOTE 20 FOR LOCATION)
25. SECONDARY CONDUITS TO PG&E PADMOUNT TRANSFORMER. (SEE SITE PLAN ES-101 FOR CONTINUATION).
26. 2" BRANCH CIRCUIT CONDUIT BETWEEN "MSB" AND PULLBOX.
27. PROVIDE WEATHER PROOF SWITCH AT +44" AFF AND 180 DEGREE WHITE LED MOTION OUTDOOR SECURITY LIGHT (DEFIANT #DFI-5983-WH OR OWNER APPROVED EQUAL).
28. NOT USED.
29. GENERATOR CONNECTION PANEL, "GCP" FOR PORTABLE CONNECTION PER SINGLE LINE DIAGRAM.
30. FUTURE LOCATION OF SOLAR DISCONNECT. STUB CONDUITS BELOW THIS AREA AT +12"AFF. ONE BETWEEN MSB TO DISCONNECT AND DISCONNECT TO BUILDING INVERTER/PANELBOARD. SEE SHEET ES101 FOR CONTINUATION. STUB CONDUITS PER DETAIL 36/E-204.

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER
JEFFREY M. THOMA
ELECTRICAL
STATE OF CALIFORNIA

EXPIRES: 09/30/26
THOMA #22-8049

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE PLANS FOR PUBLIC AGENCY REVIEW RELEASES RRM DESIGN GROUP FROM LIABILITY FOR ERRORS OR OMISSIONS.
RRM DESIGN GROUP COPYRIGHT 2025
RRM IS A CALIFORNIA CORPORATION

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

ENLARGED PARTIAL SITE PLAN

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

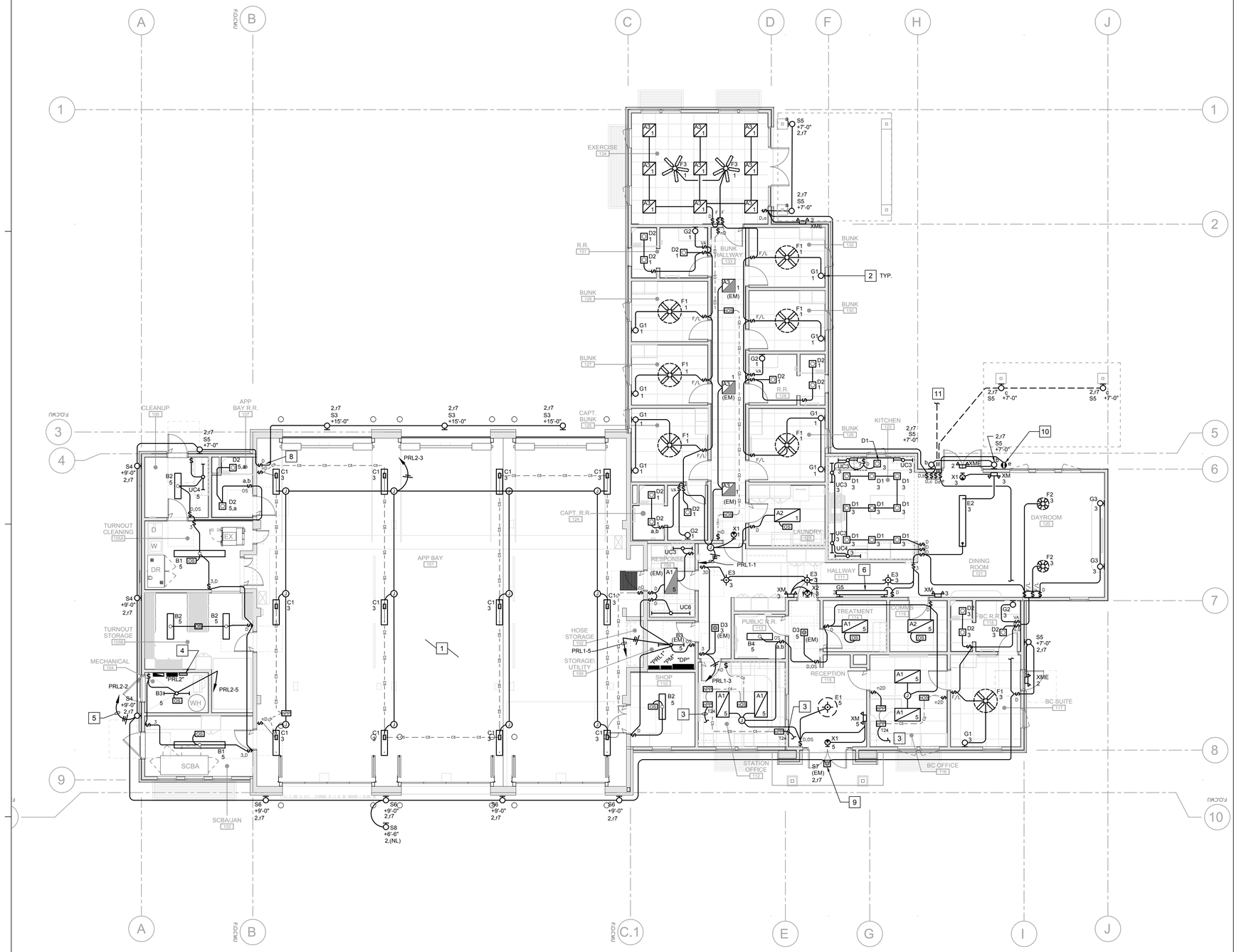
PROJECT MANAGER: CJ
DRAWN BY: TR
CHECKED BY: CJ, JT
DATE: MAY 4, 2026
Date: 05/04/2026
PROJECT NUMBER: 2471-01-CI210

County of Madera – Certified Building Division
Plans Approved Under the 2022 California Building Code
Date: 05/04/2026
Conditions Attached
without signature

SHEET: ES-102

BID DOCUMENTS

Apr 30, 2026 - 7:55am - Chris - K:\ENG\2022\22-604\22-8049_ES102_ENLARGED ELECTRICAL SITE PLAN.dwg



1 LIGHTING FLOOR PLAN

E-101 1/8" = 1'-0"

☐ REFERENCE NOTES

1. FIXTURE ON C1 WILL HAVE AN INTEGRAL OCCUPANCY SENSOR. REFER TO FIXTURE SCHEDULE. TYPICAL FOR APP. BAY.
2. ON/OFF SWITCH INTEGRAL WITH LIGHT FIXTURE. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.
3. DOWN TO SWITCH RECEPTACLES. REFER TO POWER PLAN FOR CONTINUATION.
4. LIGHTING CONTROL PANEL, "LCP".
5. ROUTE THROUGH "LCP".
6. MOUNT ABOVE MAP.
7. NOT USED.
8. LABEL SWITCH "EXTERIOR REAR LIGHTS".
9. MOUNT AT LOWER CANOPY.
10. MOUNT SWITCH RECEPTACLE BELOW EAVE.
11. TO POLE MOUNT FIXTURE. SEE SHEET ES-101 FOR CONTINUATION.

NOTES:

- ALL OUTLETS, DEVICES AND CONDUITS AT APPARATUS BAY SHALL BE RECESSED IN CMU WALLS. COORDINATE WITH STRUCTURAL ENGINEER.
- NO CONDUITS OR PIPING SHALL BE EXPOSED AT THE APPARATUS BAY CEILING.

LIGHTING CONTROL NOTES:

QUANTITY AND LOCATION OF ALL SENSORS ARE SHOWN FOR DESIGN INTENT. LIGHTING CONTROL MANUFACTURER SHALL SUBMIT COMPLETE SHOP DRAWING SHOWING PREFERRED LOCATION AND QUANTITY OF SENSORS REQUIRED FOR OPTIMUM SYSTEM PERFORMANCE.

PROVIDE OCCUPANCY SENSOR, WALL OR CEILING MOUNTED AS SHOWN ON THIS PLAN WITH TYPE AND MODEL THAT CAN ACCOMMODATE THE SPACE REQUIREMENT FOR THE ROOM OR AREA.

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER — JEFFREY M. THOMA — ELECTRICAL — STATE OF CALIFORNIA

EXPIRES: 09/30/26
THOMA #22-8049

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DRAWINGS FOR PUBLIC AGENCY REVIEW SHALL NOT CONSTITUTE PUBLICATION OF WORK OR RELEASE OF COPYRIGHT.
RRM DESIGN GROUP COPYRIGHT 2025
RRM IS A CALIFORNIA CORPORATION

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

LIGHTING FLOOR PLAN

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

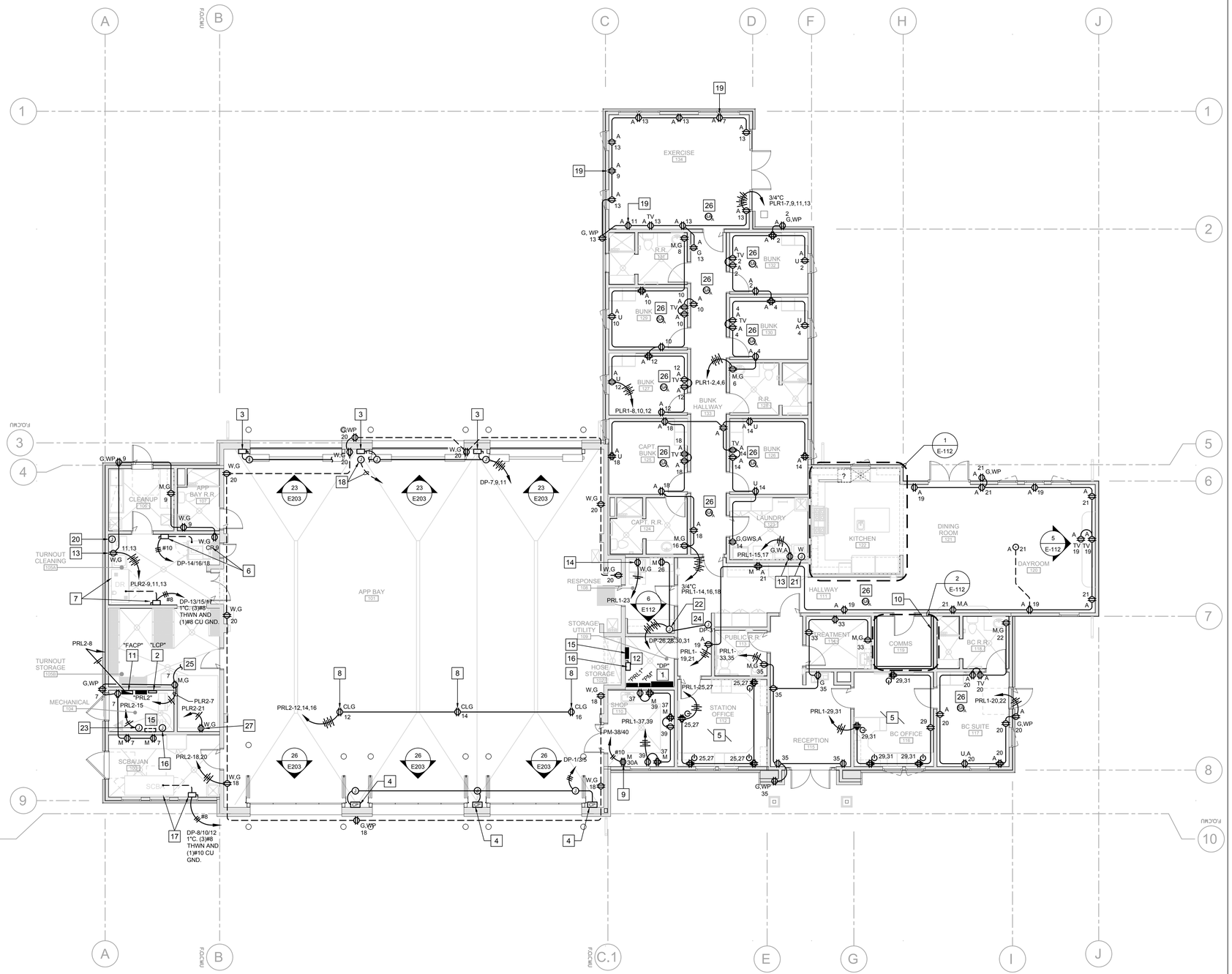
PROJECT MANAGER: CJ
DRAWN BY: TR
CHECKED BY: CJ, JT
DATE: MAY 2026
PROJECT NUMBER: 2471-01-CI21

Reviewed for Code Compliance
Fire & Building Division
County of Madera – Community Development
Conditions Approved
Date: 05/04/2026
Codes and Ordinances cited without signature

SHEET E-101

BID DOCUMENTS

Apr 30, 2026 - 7:55am - Chris - K:\ENG\2022\22-8049\22-8049_E101_LIGHTING PLAN.dwg



1 POWER FLOOR PLAN

E-111 1/8" = 1'-0"

☐ REFERENCE NOTES

1. DISTRIBUTION PANEL, "DP". REFER TO SINGLE LINE DIAGRAM.
2. LIGHTING CONTROL PANEL, "LCP".
3. CONNECT TO DOOR MOTOR FOR OVERHEAD DOOR.
4. CONNECT TO SLIDING DOOR OPERATOR CONTROL PANEL HAS AN INTEGRAL DISCONNECT.
5. CONTROLLED RECEPTACLES IN THIS ROOM. RUN BRANCH CIRCUIT TO POWER PACK FOR CONTROLLED RECEPTACLES. REFER TO LIGHTING PLAN FOR CONTINUATION.
6. CONNECT TO WASHER EXTRACTOR HOMERUN TO "DP".
7. CONNECT TO DRYING CABINET HOMERUN TO "DP".
8. CORD DROP FOR TRICKLE CHARGE.
9. PROVIDE 30AMP 208V SINGLE PHASE. MOUNT ABOVE COUNTER. VERIFY NEMA RATING WITH OWNER.
10. MAIN TELEPHONE TERMINAL BACKBOARD, "MCTB".
11. FIRE SPRINKLER MONITORING AND ALARM CONTROL PANEL, "FACP".
12. THIS SPACE WALL MUST BE EMPTY FOR FUTURE SOLAR EQUIPMENT PER SINGLE LINE DIAGRAM FOR SOLAR READY REQUIREMENTS.
13. PROVIDE TWO DEDICATED CIRCUITS FOR WASHER AND DRYER.
14. PROVIDE DEDICATED CIRCUIT FOR ICE MACHINE.
15. FUTURE LOCATION OF SOLAR PANEL "PV/INVERTER". REFER TO SINGLE LINE DIAGRAM.
16. FUTURE LOCATION OF SOLAR DISCONNECT. REFER TO SINGLE LINE DIAGRAM.
17. CONNECT TO SCBA EQUIPMENT.
18. PROVIDE FLUSH MOUNTED 5S BOX, RING, COVER PLATE, AND 1"C.O. TO "DP" FOR FUTURE USE.
19. VERIFY DEDICATED EXERCISE EQUIPMENT WITH OWNER PRIOR TO ROUGH-IN.
20. PROVIDE FLUSH MOUNTED J-BOX, RING, COVER PLATE AND 3/4"C.O. TO PANEL PRL1 FOR FUTURE USE.
21. PROVIDE FLUSH MOUNTED J-BOX, RING, COVER PLATE AND 3/4"C.O. TO PANEL PRL2 FOR FUTURE USE.
22. REFER TO ELEVATION FOR CONNECTION TO OUTLETS.
23. CONNECT TO IRRIGATION CONTROL PER LANDSCAPE PLAN.
24. PROVIDE CONNECTION TO FUEL PUMP MONITORING PANEL.
25. UP TO ROOF MOUNTED RECEPTACLE. SEE SHEET E-131 FOR CONTINUATION.
26. SMOKE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING AND PROVIDED WITH A BATTERY BACK-UP. ALL SMOKE ALARMS SHALL BE INTERCONNECTED. ALL SMOKE ALARMS SHALL MAINTAIN A MINIMUM 3 FOOT CLEARANCE TO HVAC SUPPLY OR RETURN AIR REGISTERS. ALARM SHALL BE CLEARLY AUDIBLE IN ALL BEDROOMS OVER BACKGROUND NOISE LEVELS WITH ALL INTERVENING DOORS CLOSED. CONNECT TO SMOKE ALARMS TO DP-32. TYPICAL.
27. CONNECTION TO SAUNA. PROVIDE NEMA 5-20R OUTLET AND A NEMA 5-20P PLUG PER MANUFACTURER REQUIREMENTS.

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER — JEFFREY M. THOMA — ELECTRICAL — STATE OF CALIFORNIA

EXPIRES: 09/30/26
THOMA #22-8049

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE PLANS FOR PUBLIC AGENCY REVIEW SHALL NOT CONSTITUTE PUBLICATION AND SHALL NOT DESTROY RRM'S COPYRIGHTS.
RRM DESIGN GROUP COPYRIGHT 2025
RRM IS A CALIFORNIA CORPORATION

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

POWER FLOOR PLAN

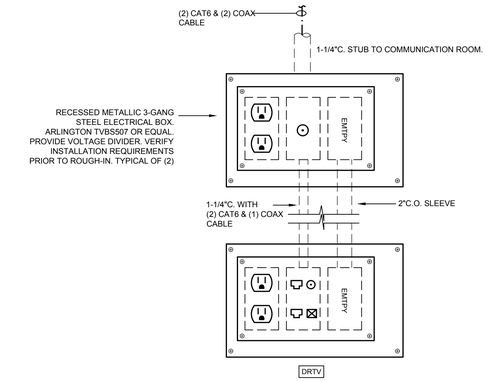
NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: CJ
DRAWN BY: TR
CHECKED BY: CJ, JT
DATE: MAY 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: E-111

County of Madera – Community Development Department
Plans Approved Under the 2022 California Building Code
Date: 05/04/2026
Based on Minimum Building Codes and Ordinances, Not Land Use Entitlements
Authorized signature

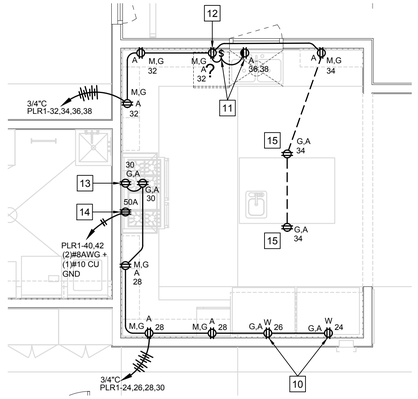
BID DOCUMENTS

Apr 30, 2026 - 7:55am - Chris - K:\ENG\2022\22-8049\22-8049_E111_POWER PLAN.dwg



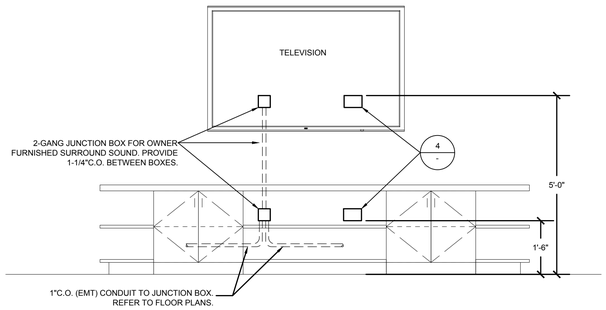
4 ELEVATION OF DAYROOM OUTLET

E-112 NTS



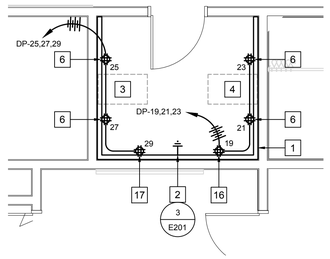
1 ENLARGED POWER PLAN AT KITCHEN 122

E-111 E-112 1/4" = 1'-0"



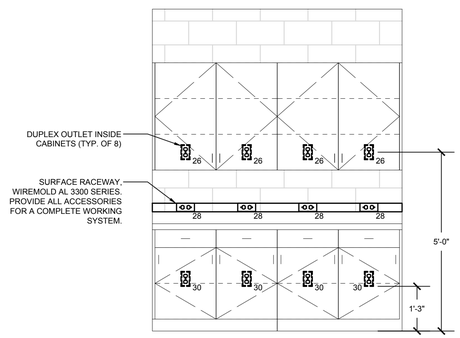
5 ELECTRICAL ELEVATION PLAN AT RESPONSE EAST COUNTER

E-111 E-112 NTS



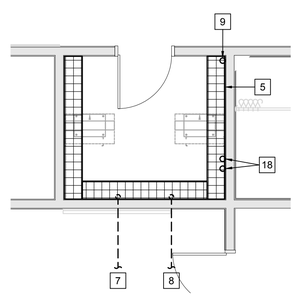
2 ENLARGED POWER PLAN AT COMM. RM. 119

E-121 E-112 1/4" = 1'-0"



6 ELECTRICAL ELEVATION PLAN AT RESPONSE EAST COUNTER

E-111 E-112 1/2" = 1'-0"



3 ENLARGED COMM. PLAN AT COMM. RM. 119

E-121 E-112 1/4" = 1'-0"

☐ REFERENCE NOTES

1. MAIN COMMUNICATION BACKBOARD. "MCTB". MAIN COMMUNICATION TERMINAL BOARD "MCTB" WITH GROUND BAR. PROVIDE 8'H X 3/4" FIRE RETARDANT BACKBOARD AT THREE WALLS SHOWN.
2. PROVIDE A GROUND BAR WITH1"C (#1/0 CU) GROUND TO "DP".
3. PROVIDE 19"W X7'H X 3" DEEP COMMUNICATION RACK FLOOR MOUNTED SYSTEM (CHATSWORTH #55053-703 OR EQUAL, SEISMIC SUPPORTS AS REQUIRED. REFER TO DETAILS 5 & 9/E-201. PROVIDE NEMA 5-20R QUAD DEDICATED CIRCUIT AND 30AMP NEMA L5-30R RECEPTACLE DEDICATED CIRCUIT BEHIND EQUIPMENT RACK.
4. 19" 2-POST RACK FOR FIRE ALERTING SYSTEM. PROVIDE 5-20R QUAD RECEPTACLE DEDICATED CIRCUIT BEHIND EQUIPMENT RACK. REFER TO DETAIL 6/E-201.
5. PROVIDE 18" LADDER TRAY AS SHOWN (CHATSWORTH #10250-712 BLACK). PERIMETER TRAY SHALL BE SUPPORTED FROM WALL BRACKETS (CHATSWORTH #1746-712) OR END WALL BRACKETS (CHATSWORTH #11421-712) AND MOUNTED TO THE TOP OF EACH RACK. VERIFY MOUNTING HEIGHT WITH COUNTY PRIOR TO ROUGH-IN. SEE DETAIL 61/E-207
6. DEDICATED CIRCUIT FOR DATA RACK.
7. TELEPHONE UTILITY CONDUITS STUB. (TBD)
8. CATV UTILITY CONDUITS STUB. (TBD)
9. (1)2" EMT TO ROOF MOUNTED WEATHERHEAD FOR RADIO WIRING BY OTHERS.
10. PROVIDE DEDICATED CIRCUIT FOR REFRIGERATOR.
11. PROVIDE SWITCHED RECEPTACLE BELOW SINK AND GANG SWITCH WITH RECEPTACLE ABOVE COUNTER. PROVIDE TWO DEDICATED CIRCUIT FOR DISPOSAL AND DISHWASHER.
12. GANG WITH SWITCH.
13. MOUNT LOW FOR GAS RANGE AND MOUNT ABOVE FOR RANGE HOOD, FAN/LIGHT. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
14. PROVIDE 50A, 120/208V SINGLE PHASE (NEMA 14-50R) OUTLET FOR ELECTRICAL OVEN. PROVIDE 3/4"C WITH (3) #8 THWN + (1) #10 CU GROUND.
15. HORIZONTALLY MOUNT AT ISLAND COUNTER AS HIGH AS PRACTICAL.
16. DEDICATED CIRCUIT FOR CATV UTILITY COMPANY. VERIFY MOUNTING HEIGHT PRIOR TO ROUGH-IN.
17. DEDICATED CIRCUIT FOR TELEPHONE UTILITY COMPANY. VERIFY MOUNTING HEIGHT PRIOR TO ROUGH-IN.
18. STUB (1)4"C.O. AND (1)2"C.O. AT THIS LOCATION FOR FUTURE TOWER. REFER TO ELECTRICAL SITE PLAN.

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER JEFFREY M. THOMA ELECTRICAL STATE OF CALIFORNIA

EXPIRES: 09/30/26
THOMA #22-8049

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE PLANS TO ANY REGULATORY AGENCY FOR REVIEW SHALL NOT CONSTITUTE PUBLICATION IN DEROGATION OF RRM'S COPYRIGHT.
RRM DESIGN GROUP COPYRIGHT 2025
RRM IS A CALIFORNIA CORPORATION

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

ENLARGED ELECTRICAL FLOOR PLANS

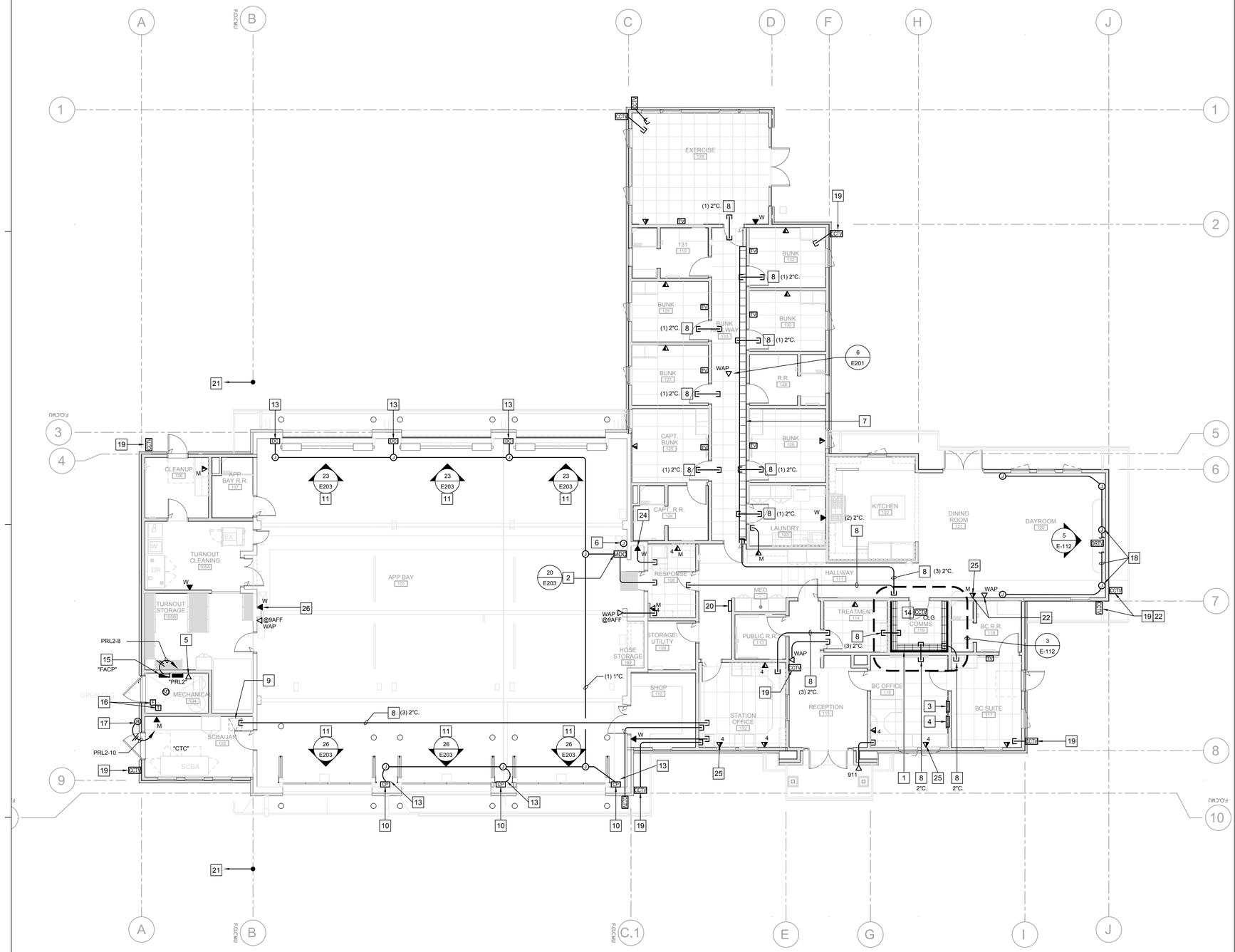
NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: CJ
DRAWN BY: TR
CHECKED BY: CJ, JT
DATE: MAY 2026
PROJECT NUMBER: 2471-01-CI21

County of Madera – Community Development Department – Building Division – Approved Plans – Date 05/04/2026 – Signature [illegible] – Plans Approved Under the 2022 California Building Codes and Ordinances, void valid without signature

SHEET E-112

Apr 30, 2026 - 7:55am - Chris - K:\ENG\2022\22-8049\22-8049_E112_ENLARGED PLANS.dwg



1 COMMUNICATION FLOOR PLAN
E-121 1/8" = 1'-0"

REFERENCE NOTES

1. MAIN COMMUNICATION BACKBOARD. "MCTB".
2. MASTER DOOR CONTROL STATION TO CONTROL ALL SIX DOORS.
3. FLUSHED MOUNTED GENERATOR ANNUNCIATOR PANEL. VERIFY EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
4. FLUSHED MOUNTED FIRE ALARM ANNUNCIATOR PANEL.
5. PROVIDE (1)CAT6 DATA LINE AT LIGHTING CONTROL PANEL.
6. PROVIDE 1-GANG JUNCTION BOX WITH COVER PLATE, MOUNT AT SWITCH HEIGHT, AND PROVIDE 1-1/4"C.O. TO COMM. ROOM FOR FUTURE TRAFFIC SIGNAL PRE-EMPT PUSH-BUTTON.
7. CABLE TRAY 4" SIDE RAILS X 12"W. WALL MOUNT ABOVE T-BAR CEILING.
8. CONDUIT SLEEVES. MOUNT ABOVE CEILING SPACES.
9. CEILING ATTIC ACCESS . STUB ALL LOW VOLTAGE CONDUIT ABOVE THIS AREA FOR LOW VOLTAGE WIRING AT APP BAY SUPPORT AREA.
10. CONTROL PANEL FOR BI-FOLDING.
11. REFER TO DETAIL FOR ROUGH-IN REQUIREMENTS.
12. NOT USED.
13. WALL MOUNT DOOR CONTROL AND 3/4"C TO DOOR MOTOR.
14. CEILING MOUNT INTERIOR CCTV CAMERA. PROVIDE (1)CAT6 CABLE CURLED UP ABOVE CEILING SPACE WITH 3 FEET OF SLACK. COORDINATE WITH OWNER FOR EXACT LOCATION PRIOR TO ROUGH-IN. REFER TO NOTE 19 FOR CONTRACTOR'S SCOPE.
15. FIRE SPRINKLER MOUNTING CONTROL PANEL, "FACP" WITH SMOKE DETECTOR ABOVE.
16. FLOW AND TAMPER SWITCH AT FIRE SPRINKLER RISER.
17. PROVIDE 120V CONNECTION TO SPRINKLER BELL. RING THROUGH, FOLLOW SWITCH.
18. MOUNT (1) JUNCTION BOX IN ENTERTAINMENT CASEWORK AND 1"C.O. BETWEEN BOXES FOR SPEAKERS BY OTHERS. VERIFY BOX EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
19. 3/4"C STUB TO ACCESSIBLE CEILING SPACE (T-BAR) (UON) FOR EXTERIOR/INTERIOR CCTV CAMERA. MOUNT 1-GANG BOX WITH WEATHER PROOF BLANK PLATE. PROVIDE (1)CAT6 CABLE CURLED UP AT BOX WITH 3 FEET OF SLACK. COORDINATE WITH OWNER EXACT LOCATION PRIOR TO ROUGH-IN. MOUNT AT 12'AFF UNLESS IT CONFLICTS WITH EXTERIOR FINISH/ITEM. INTERIOR CAMAS TO BE WALL MOUNTED OR CEILING MOUNTED. TERMINATE THE CAT6 CABLE TO 1-PORT BISCUIT AND A DATA RACK. MOUNT BISCUIT INSIDE BOX. CONTRACTOR'S SCOPE SHALL BE LIMITED TO CONDUIT, CAT6CABLEING, TERMINATION, LABELING AND TESTING.
20. FUEL PUMP MANAGMENT SYSTEM PANEL FURNISHED BY G.C. VERIFY EXACT LOCATION WITH CITY. PROVIDE 3/4"C.O. TO MCTB WITH (2) CAT6 FOR COMMUNICATION. RUN 1-1/4"C TO FUEL PUMP AT GENERATOR ENCLOSURE FOR LOW VOLTAGE WIRING.
21. LOW VOLTAGE WIRING, STUB CONDUITS ABOVE ATTIC ACCESS LOCATED IN JAN 103 FOR ALL LOW VOLTAGE WIRING AT APP BAY SUPPORT AREA SOUTH OF GRID B.
22. STUB CONDUIT TO COMMUNICATION ROOM.
23. THESE AREAS TO STUB CONDUITS TO CABLE TRAY. (UON)
24. AT THIS WALL PHONE, PROVIDE (1)ADDITIONAL CAT6 CABLE AND DATA PORT AND LABEL "BASE RADIO"
25. LABEL ONE OF THE DATA PORT AS "BASE RADIO"

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER — JEFFREY M. THOMA — ELECTRICAL — STATE OF CALIFORNIA

EXPIRES: 09/30/26
THOMA #22-8049

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE PLANS FOR PUBLIC AGENCY REVIEW SHALL NOT CONSTITUTE PUBLICATION OF SUCH WORK OR DESIGN.
RRM DESIGN GROUP COPYRIGHT 2025
RRM IS A CALIFORNIA CORPORATION

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

COMMUNICATION FLOOR PLAN

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: CJ
DRAWN BY: TR
CHECKED BY: CJ, JT
DATE: MAY 4, 2026
Date: 05/04/2026
PROJECT NUMBER: 2471-01-CI21
SHEET: E-121

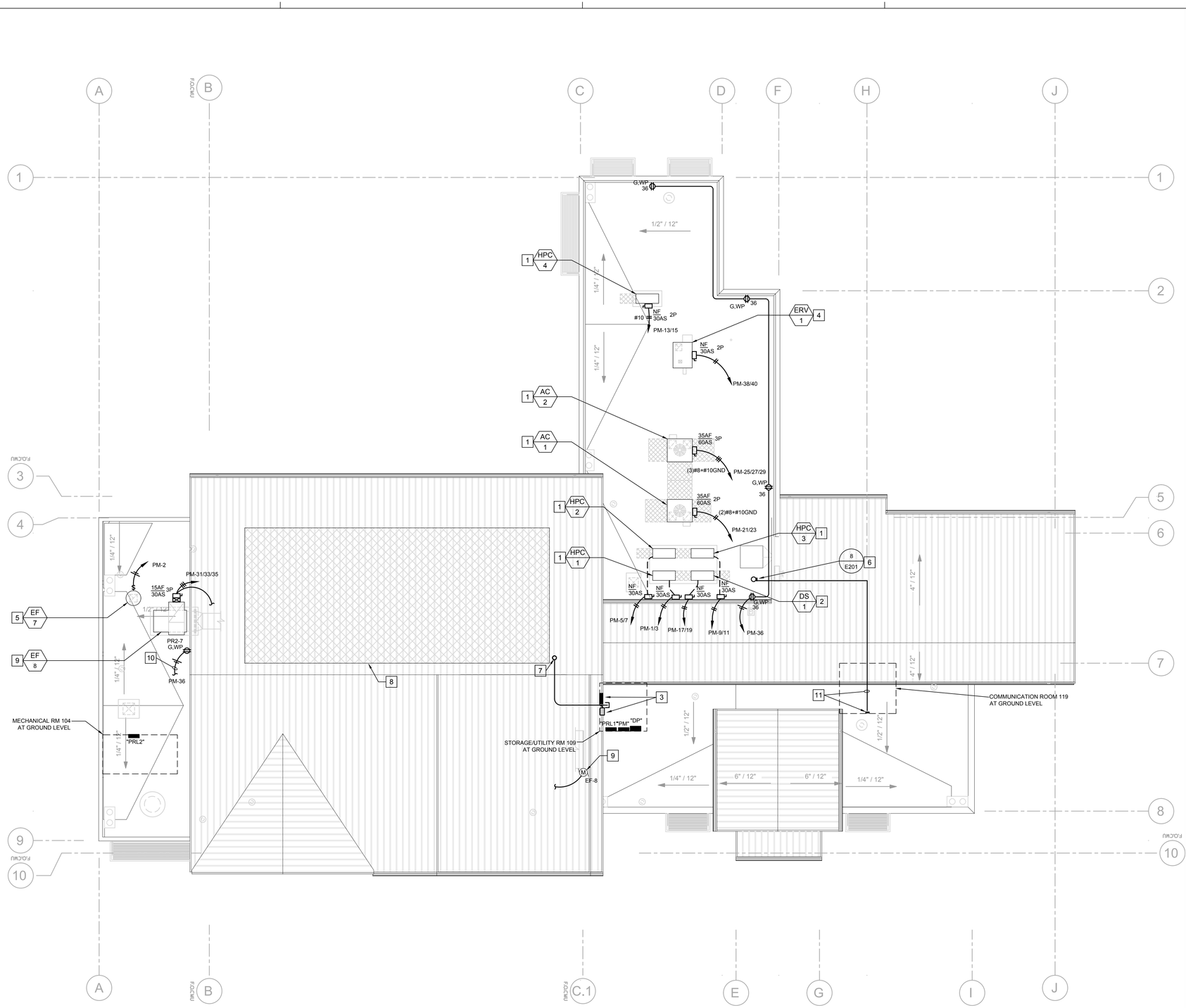
BID DOCUMENTS

Approved Plans Must Be On Jobsite
Madera County Building Division
Approved subject to the 2022 California Residential Building Code and all other applicable Codes and Ordinances, not specifically listed on this plan without signature

Apr 30, 2026 - 7:55am - Chris - K:\ENG\2022\2-8049\2-8049_E121_COMM PLAN.dwg

☐ REFERENCE NOTES

1. CONNECT TO CONDENSING UNIT PER MECHANICAL PLANS.
2. CONNECT TO DUCTLESS SPLIT SYSTEM OUTDOOR UNIT PER MECHANICAL PLANS.
3. PROPOSED LOCATION OF FUTURE INVERTER/AC PANELBOARD AND DISCONNECT.
4. CONNECT TO MECHANICAL UNIT PER MECHANICAL PLANS.
5. CONNECT TO EXHAUST FAN. PROVIDE SWITCH PER MECHANICAL PLANS.
6. 2" WEATHERHEAD. STUB 2"C.O. DOWN TO COMM. ROOM FOR LOW VOLTAGE WIRING BY OWNER'S VENDOR. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.
7. 2-1" STUB AND CAP AT +12" AFF FOR FUTURE CONNECTION TO ROOF MOUNTED SOLAR. STUB DOWN STORAGE/UTILITY ROOM 109.
8. FUTURE SOLAR PANELS. REFER TO ARCHITECTURAL ROOF PLAN FOR SOLAR ZONES. TYPICAL.
9. CONNECT TO EXHAUST FAN 'EF-8" PER MECHANICAL PLANS. INTERLOCK WITH MOTORIZED DAMPERS. SEE DETAIL 42/E-205.
10. DOWN TO GROUND LEVEL RECEPTACLE. SEE SHEET E-111 FOR CONTINUATION.
11. CONDUIT MOUNT BUS BAR KIT INCLUDES 10" X 1/4" COPPER BAR WITH TAPPED HOLES, INSULATORS, AND STAND-OFF BRACKETS. COORDINATE EXACT LOCATION WITH COMMUNICATION CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE 1/2"C WITH (1)#2 GROUND (COPPER) WIRE DOWN TO COMMUNICATION GROUND BAR.



1 ELECTRICAL ROOF PLAN

E-131 1/8" = 1'-0"

rrm design group

rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER
JEFFREY M. THOMA
ELECTRICAL
STATE OF CALIFORNIA

EXPIRES: 09/30/26
THOMA #22-8049

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DRAWINGS TO AN AGENCY FOR REVIEW SHALL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF RRM'S COMMON LAW COPYRIGHT OR OTHER PROPERTY RIGHTS.

RRM DESIGN GROUP COPYRIGHT 2025
RRM IS A CALIFORNIA CORPORATION

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

ELECTRICAL ROOF PLAN

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		
7		

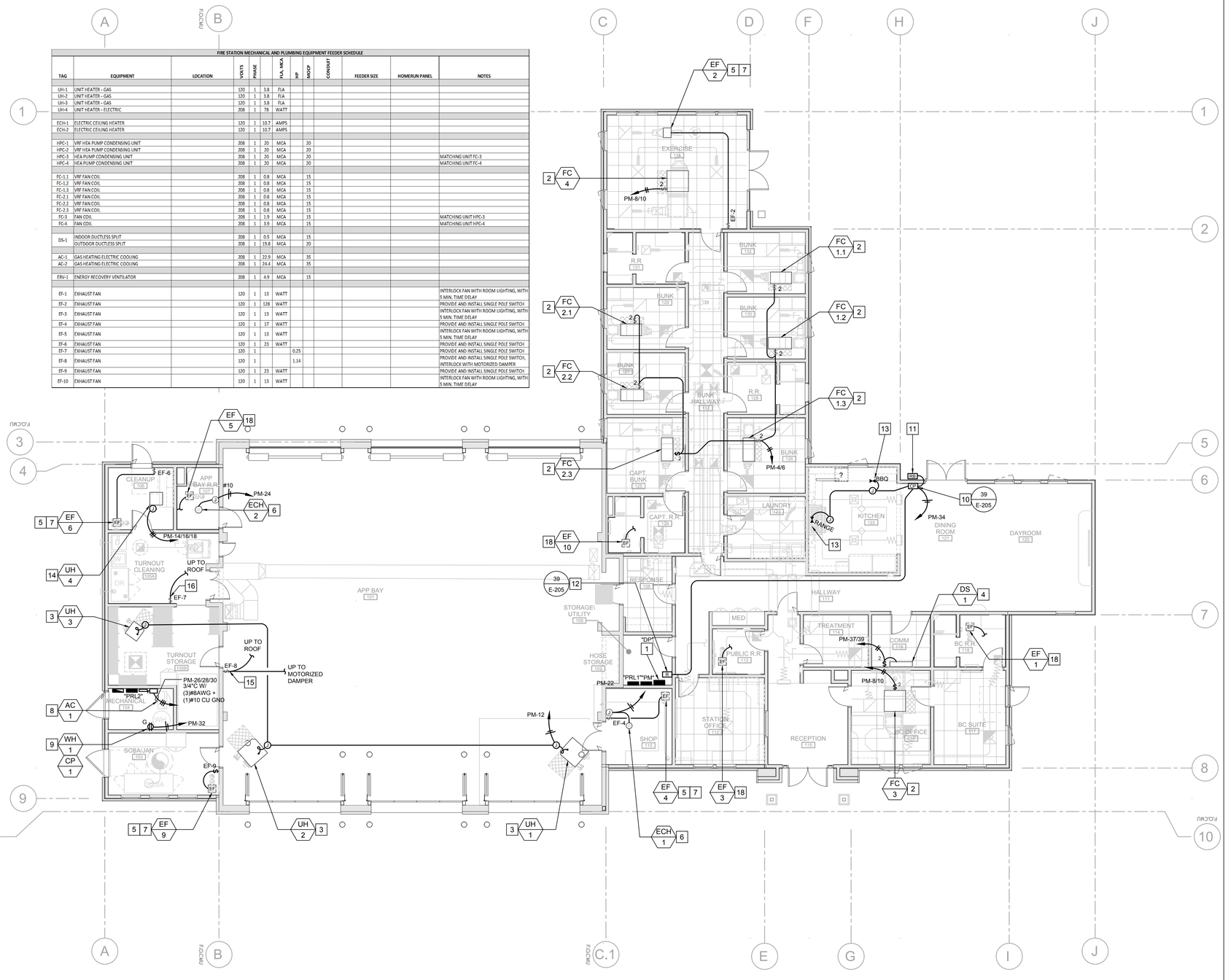
PROJECT MANAGER: CJ
DRAWN BY: TR
CHECKED BY: CJ, JT
DATE: MAY 4, 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: E-131

County of Madera – CDD Building and Fire Safety Division
Approved for Issuance Under this 2022 California Building Code
Date: 05/04/2026
Each Plan Sheet Must Comply with All Codes and Ordinances, not listed, without signature

Apr 30, 2026 - 7:55am - Chris - K:\ENG\2022\22-8049\22-8049_E131_ELECTRICAL ROOF PLAN.dwg

FIRE STATION MECHANICAL AND PLUMBING EQUIPMENT FEEDER SCHEDULE

TAG	EQUIPMENT	LOCATION	VOLTS	PHASE	FLA, MCA	HP	MOCP	CONDUIT	FEEDER SIZE	HOMERUN PANEL	NOTES
UH-1	UNIT HEATER - GAS		120	1	3.8	FLA					
UH-2	UNIT HEATER - GAS		120	1	3.8	FLA					
UH-3	UNIT HEATER - GAS		120	1	3.8	FLA					
UH-4	UNIT HEATER - ELECTRIC		208	1	7.8	WATT					
ECH-1	ELECTRIC CEILING HEATER		120	1	10.7	AMPS					
ECH-2	ELECTRIC CEILING HEATER		120	1	10.7	AMPS					
HPC-1	VRF HEA PUMP CONDENSING UNIT		208	1	20	MCA		20			
HPC-2	VRF HEA PUMP CONDENSING UNIT		208	1	20	MCA		20			
HPC-3	HEA PUMP CONDENSING UNIT		208	1	20	MCA		20			MATCHING UNIT FC-3
HPC-4	HEA PUMP CONDENSING UNIT		208	1	20	MCA		20			MATCHING UNIT FC-4
FC-1.1	VRF FAN COIL		208	1	0.8	MCA		15			
FC-1.2	VRF FAN COIL		208	1	0.8	MCA		15			
FC-1.3	VRF FAN COIL		208	1	0.8	MCA		15			
FC-2.1	VRF FAN COIL		208	1	0.8	MCA		15			
FC-2.2	VRF FAN COIL		208	1	0.8	MCA		15			
FC-2.3	VRF FAN COIL		208	1	0.8	MCA		15			
FC-3	FAN COIL		208	1	1.9	MCA		15			MATCHING UNIT HPC-3
FC-4	FAN COIL		208	1	3.9	MCA		15			MATCHING UNIT HPC-4
DS-1	INDOOR DUCTLESS SPLIT		208	1	0.5	MCA		15			
	OUTDOOR DUCTLESS SPLIT		208	1	19.8	MCA		20			
AC-1	GAS HEATING ELECTRIC COOLING		208	1	22.9	MCA		35			
AC-2	GAS HEATING ELECTRIC COOLING		208	1	24.4	MCA		35			
ERV-1	ENERGY RECOVERY VENTILATOR		208	1	4.9	MCA		15			
EF-1	EXHAUST FAN		120	1	13	WATT					INTERLOCK FAN WITH ROOM LIGHTING, WITH 5 MIN. TIME DELAY
EF-2	EXHAUST FAN		120	1	128	WATT					PROVIDE AND INSTALL SINGLE POLE SWITCH
EF-3	EXHAUST FAN		120	1	13	WATT					INTERLOCK FAN WITH ROOM LIGHTING, WITH 5 MIN. TIME DELAY
EF-4	EXHAUST FAN		120	1	17	WATT					PROVIDE AND INSTALL SINGLE POLE SWITCH
EF-5	EXHAUST FAN		120	1	13	WATT					INTERLOCK FAN WITH ROOM LIGHTING, WITH 5 MIN. TIME DELAY
EF-6	EXHAUST FAN		120	1	23	WATT					PROVIDE AND INSTALL SINGLE POLE SWITCH
EF-7	EXHAUST FAN		120	1			0.25				PROVIDE AND INSTALL SINGLE POLE SWITCH
EF-8	EXHAUST FAN		120	1			1.14				PROVIDE AND INSTALL SINGLE POLE SWITCH, INTERLOCK WITH MOTORIZED DAMPER
EF-9	EXHAUST FAN		120	1	23	WATT					PROVIDE AND INSTALL SINGLE POLE SWITCH
EF-10	EXHAUST FAN		120	1	13	WATT					INTERLOCK FAN WITH ROOM LIGHTING, WITH 5 MIN. TIME DELAY



1 MEP CONNECTION FLOOR PLAN

E-132 1/8" = 1'-0"

☐ REFERENCE NOTES

1. DISTRIBUTION PANEL, "DP". REFER TO SINGLE LINE DIAGRAM.
2. CONNECT TO FAN COIL PER MECHANICAL PLANS.
3. CONNECT TO UNIT HEATER PER MECHANICAL PLANS.
4. CONNECT TO DUCTLESS SPLIT SYSTEM INDOOR UNIT PER MECHANICAL PLANS.
5. CONNECT TO LIGHT BRANCH CIRCUIT IN THIS ROOM.
6. CONNECT TO ELECTRIC CEILING HEATER PER MECHANICAL PLANS WITH 2-HOUR NO HOLD WALL MOUNTED TIMER PER MECHANICAL PLANS.
7. CONNECT TO EXHAUST FAN. PROVIDE SWITCH PER MECHANICAL PLANS.
8. CONNECT TO AIR COMPRESSOR PER PLUMBING PLANS.
9. LOCATE FOR CONNECTION TO WATER HEATER AND CIRCULATION PUMP PER PLUMBING PLANS.
10. PROVIDE 120V CONNECTION TO GAS SHUT-OFF VALVE CONTROL PANEL PER PLUMBING PLANS.
11. BBQ GAS RESET BUTTON PER PLUMBING PLANS. PROVIDE BOX, RING AND 1/2"C BACK TO CONTROL PANEL.
12. CONTACT ENCLOSURE PER PLUMBING PLANS TO SHUT DOWN ELECTRICAL POWER TO GAS STOVE AND ELECTRIC OVEN.
13. PROVIDE 1/2"C TO SOLENOID VALVE FOR BBQ AND GAS RANGE PER PLUMBING PLANS. (ALL CONTROL WIRES BY PLUMBING CONTRACTOR)
14. CONNECT TO ELECTRIC UNIT HEATER UH-4 WITH FACTORY INSTALLED DISCONNECT PER MECHANICAL PLANS.
15. PROVIDE SWITCH TO CONTROL ROOF EXHAUST FAN "EF-8" AND MOTORIZED DAMPER PER MECHANICAL PLANS. SEE DETAIL 42 ON SHEET E-205. REFER TO ROOF PLAN FOR LOCATION OF FAN AND DAMPER.
16. PROVIDE SWITCH TO CONTROL ROOF EXHAUST FAN "EF-7". REFER TO ROOF PLAN FOR LOCATION OF FAN.
17. CONNECT TO 120V THERMOSTAT PER MECHANICAL PLANS. RUN BRANCH CIRCUIT UP ROOF MOUNTED EXHAUST FAN.
18. CONNECT TO EXHAUST FAN INTERLOCK WITH LIGHT IN THIS ROOM WITH 5 MINUTE TIME DELAY OFF.

rrm design group

rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER JEFFREY M. THOMA ELECTRICAL STATE OF CALIFORNIA

EXPIRES: 09/30/26
THOMA #22-8049

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS TO AGENCY REVIEW SHALL NOT BE CONSTRUED AS PUBLICATION IN DEROGATION OF RRM'S COPYRIGHT.

RRM DESIGN GROUP COPYRIGHT 2025
RRM IS A CALIFORNIA CORPORATION

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

MEP CONNECTION FLOOR PLAN

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: CJ
DRAWN BY: TR
CHECKED BY: CJ, JT
DATE: MAY 1, 2026
PROJECT NUMBER: 22471-01-CI21

Building Division County of Madera – Certified Building Official Status Approved Under the 2022 California Building Code

SHEET: E-132

BID DOCUMENTS

Apr 30, 2026 - 7:56am - Chris - K:\ENG\2022\22-8049\22-8049_E-132_MEP PLAN.dwg

FIRE STATION ALERTING SYSTEM (FSAS)

SYMBOL	DEVICE NAME	PLAN DESIGNATOR	USDD DESIGN SYMBOL	MOUNTING OPTIONS	PRODUCT DIMENSION	MOUNTING HEIGHT	CONDUIT NEEDS	BOX NEEDS
ATX	ATX STATION CONTROLLER	ATX	ATX	RACK-MOUNTED OR WALL MOUNTED	17.25" X 17.50" X 6.06"	DETERMINED BY INSTALLER / CUSTOMER	2" SLEEVE PIPED TO ABOVE MOUNTING LOCATION	N/A
UPS	CYBERPOWER UPS BATTERY BACKUP	UPS	UPS	RACK-MOUNTED OR WALL MOUNTED	3.90" X 11.00" X 14.00"	DETERMINED BY INSTALLER / CUSTOMER	N/A	N/A
AMP	EXTRON AMPLIFIER	AMP	AMP	RACK-MOUNTED OR WALL MOUNTED	8.70" X 1.70" X 9.50"	DETERMINED BY INSTALLER / CUSTOMER	**UTILIZES 2" ATX SLEEVE	N/A
I/0	G2 I/0 REMOTE	I/0	MR2 I/O	RACK-MOUNTED OR WALL MOUNTED	6.75" X 2.00" X 9.75"	DETERMINED BY INSTALLER / CUSTOMER	**UTILIZES 2" ATX OR EXP SLEEVE	N/A
MR2	G2 MESSAGE REMOTE 2	MR2	I/O	RACK-MOUNTED OR WALL MOUNTED	6.50" X 2.00" X 6.00"	DETERMINED BY INSTALLER / CUSTOMER	**UTILIZES 2" ATX OR EXP SLEEVE	N/A
GSS	G2 MESSAGE SIGN	GSS		APPARATUS BAY	24.80" X 3.70" X 1.60"	9.00' AFF	3/4" EMT	SINGLE GANG BOX, VERTICAL
STR	G2 STROBE LIGHT	STR	STR	INTERIOR WALL	8.00" X 6.00" X 2.40"	12.00" FROM FINISHED CEILING	3/4" EMT STUB TO ACCESSIBLE CEILING	SINGLE GANG BOX, VERTICAL
EM PB	PUSH BUTTON (RED)	PB-R	PB	ANY	BUTTON IS MOUNTED DIRECTOR TO A SINGLE GAG FACE PLACE	SWITCH HEIGHT	3/4" EMT STUB TO ACCESSIBLE CEILING	SINGLE GANG BOX, VERTICAL
DB PB	PUSH BUTTON (BLACK)	PB-B	PB BLACK	ANY	BUTTON IS MOUNTED DIRECTOR TO A SINGLE GAG FACE PLACE	SWITCH HEIGHT	3/4" EMT STUB TO ACCESSIBLE CEILING	SINGLE GANG BOX, VERTICAL
RR2	G2 ROOM REMOTE 2	RR2	RR2	ALL	11.20" X 8.20" X 1.90"	52" AFF; ROUGH-IN BOX 4-6" AWAY FROM ANY LIGHT SWITCH	3/4" EMT STUB TO ACCESSIBLE CEILING	4-GANG BOX (RACO #943 - 2.5" D) W/ MUD RING
TVR	G2 HDTV REMOTE	TVR	TVR	WALL	3.60" X 1.20" X 2.90"	FIRST OPTION: FLUSH TO WALL BEHIND TELEVISION SECOND OPTIONS: MOUNT NEAR AN EXISTING OR NEW OUTLET ON WALL OR ABOVE CEILING	3/4" EMT STUB TO ACCESSIBLE CEILING	N/A
WP	BOGAN WEATHERPROOF SPEAKER	S	S	EXTERIOR	9.00" X 8.00"	12.00' AFF	3/4" EMT	SINGLE GANG BOX, VERTICAL
	G2 LED FLUSH MOUNT SPEAKER	S	S	DROP CEILING	12 5/8" DIAMETER	DETERMINED BY INSTALLER / CUSTOMER	N/A	**FOR INSTALLATION IN HARD CEILING ONLY, REQUIRES BACKBOX (BOGEN #RE84 & TB8)
	FLUSH MOUNT SPEAKER	S	S	DROP CEILING	12 5/8" DIAMETER	DETERMINED BY INSTALLER / CUSTOMER	N/A	**FOR INSTALLATION IN HARD CEILING ONLY, REQUIRES BACKBOX (BOGEN #RE84 & TB8)
	G2 LED METAL BOX SPEAKER	S	S	INTERIOR WALL OR HARD CEILING	12.00" X 12.00"	DETERMINED BY INSTALLER / CUSTOMER	3/4" EMT STUB TO ACCESSIBLE CEILING	N/A
	METAL BOX SPEAKER	S	S	INTERIOR WALL OR HARD CEILING	12.00" X 12.00"	DETERMINED BY INSTALLER / CUSTOMER	3/4" EMT STUB TO ACCESSIBLE CEILING	N/A
	G2 OMNI ALER STROBE SPEAKER	S	S	APPARATUS BAY	13" HIGH x 15" DIAMETER	DETERMINED BY INSTALLER / CUSTOMER	3/4" EMT	N/A

——— 3/4"CONDUIT (EMT) (LOW VOLTAGE WIRING PER SYSTEM REQUIREMENTS BY USDD CONTRACTOR
ALL WIRES MUST BE IN CONDUIT UNLESS THEY ARE IN THE CABLE TRAY.

(1)2"CONDUIT (EMT) CONDUIT SLEEVES MOUNT ABOVE ACCESSIBLE CEILING SPACE FOR LOW VOLTAGE WIRING.

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER — JEFFREY M. THOMA — ELECTRICAL — STATE OF CALIFORNIA

EXPIRES: 09/30/26
THOMA #22-8049

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE PLANS FOR PUBLIC AGENCY REVIEW SHALL NOT CONSTITUTE PUBLICATION IN DEROGATION OF RRM'S COPYRIGHT.
RRM DESIGN GROUP COPYRIGHT 2025
RRM IS A CALIFORNIA CORPORATION

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

FIRE STATION ALERTING SYSTEM (FSAS) LEGEND

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: CJ
DRAWN BY: TR
CHECKED BY: CJ, JT
DATE: MAY 2026
PROJECT NUMBER: 2471-01-CI21

County of Madera – Certified Building Division – Reviewed for the 2022 California Building and Fire Codes and Ordinances; not valid without signature – Date 05/04/2026

SHEET: E-141

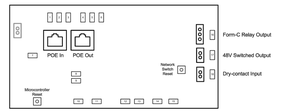
BID DOCUMENTS

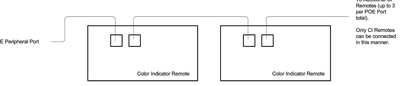
Apr 30, 2026 - 7:58am - Chris - K:\ENG\2022\22-8049\22-8049_E141_FSAS LEGEND.dwg

Color Indicator Remote

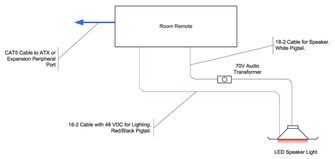
LED Functions

1. POE In - 48V Present
2. POE In - 100Mbps
3. POE In - Link / Traffic
4. POE Out - 48V Present
5. POE Out – 100Mbps
6. POE Out – Link / Traffic
7. 3.3V Present
8. Diag 2
9. Diag 1
10. Switch Interr – 100Mbps
11. Switch Interr – Link / Traffic
12. 1.8V B
13. 1.8V A
14. 3.3V
15. 1.8V C
16. Output 1 Active
17. 48V Output Active
18. Input 1 Active

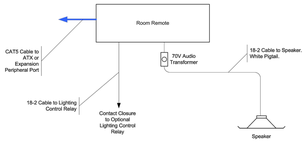




NOTE: The suggestion provided may or may not be suitable for your application. Please consider this carefully before incorporating it into your design or installation. US Digital Designs disclaims any responsibility for accuracy or completeness.



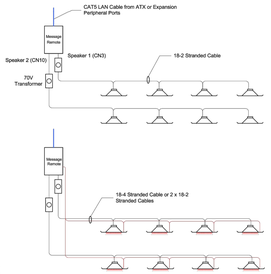
Room Remote with LED Speaker Light



Room Remote with Standard Speaker

NOTE: The suggestion provided may or may not be suitable for your application. Please consider this carefully before incorporating it into your design or installation. US Digital Designs disclaims any responsibility for accuracy or completeness.

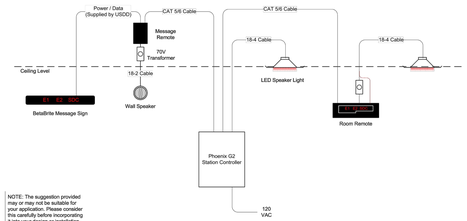
Message Remote to Speaker / LED Speaker Light Interconnection



NOTE: The suggestion provided may or may not be suitable for your application. Please consider this carefully before incorporating it into your design or installation. US Digital Designs disclaims any responsibility for accuracy or completeness.

Phoenix G2 Cabling Overview

All cabling on conduit or free-run depending on contract.



NOTE: The suggestion provided may or may not be suitable for your application. Please consider this carefully before incorporating it into your design or installation. US Digital Designs disclaims any responsibility for accuracy or completeness.

Sign Remote

NOTE: The suggestion provided may or may not be suitable for your application. Please consider this carefully before incorporating it into your design or installation. US Digital Designs disclaims any responsibility for accuracy or completeness.

Room Remote Detail

LED Functions

1. +48V
2. +12V
3. +5V
4. Lights Output Active
5. Aux Out 1 Active
6. Aux Out 2 Active
7. Display Power
8. Display On
9. Display On

Fuse: Littlefuse 372 - 250V 1.25A Radial Time Delay

NOTE: The suggestion provided may or may not be suitable for your application. Please consider this carefully before incorporating it into your design or installation. US Digital Designs disclaims any responsibility for accuracy or completeness.

Message Remote Interconnection Detail

LED Functions

1. +48V
2. +12V
3. +5V
4. Lights Output Active
5. Aux Out 1 Active
6. Aux Out 2 Active
7. Display Power
8. Display On
9. Display On

Fuse: Littlefuse 372 - 250V 1.25A Radial Time Delay

NOTE: The suggestion provided may or may not be suitable for your application. Please consider this carefully before incorporating it into your design or installation. US Digital Designs disclaims any responsibility for accuracy or completeness.

ATX Station Controller to Expansion Panel Connections

NOTE: The suggestion provided may or may not be suitable for your application. Please consider this carefully before incorporating it into your design or installation. US Digital Designs disclaims any responsibility for accuracy or completeness.

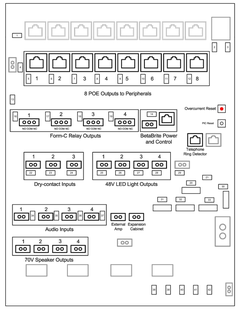
ATX Station Controller

LED Functions

1. 9.6V Analog
2. ATX Mainboard – Link
3. ATX Mainboard – Network Traffic
4. Internal LAN Switch Power
5. thru 12. POE Out
13. 5V Analog
14. BetaBrite Power
15. thru 19. Output 1-4 Active
20. 5V
21. 3.3V
22. thru 24. Digital Input 1-4 Active
25. thru 28. Speaker Light 1-4 Active
29. Advantech Touchscreen Power
30. 48V
31.48V_C
32.48V_B
33.48V_A
34. thru 37. Audio Input 1-4 Activity
35. 18V_A
36. 18V_B
40. 30V
41. 9.6V
42. 12V

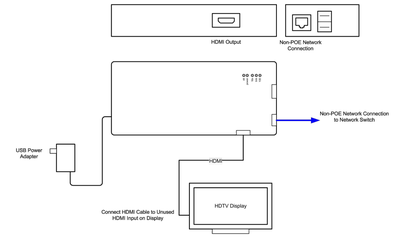
Fuses

Time Delay 5mm x 20mm
F1, F2, F3 250V 4A
F4 250V 12.5A
F5 250V 500mA



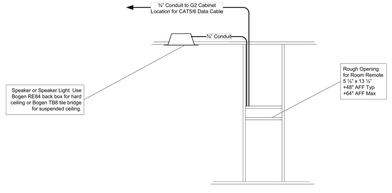
NOTE: The suggestion provided may or may not be suitable for your application. Please consider this carefully before incorporating it into your design or installation. US Digital Designs disclaims any responsibility for accuracy or completeness.

HDTV Remote



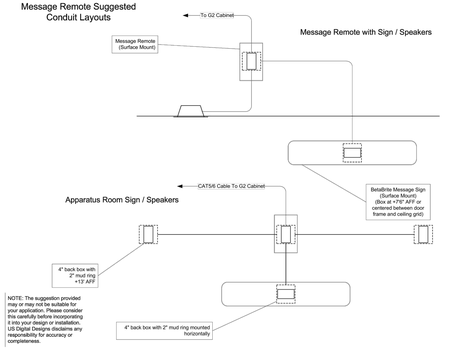
NOTE: The suggestion provided may or may not be suitable for your application. Please consider this carefully before incorporating it into your design or installation. US Digital Designs disclaims any responsibility for accuracy or completeness.

Room Remote Suggested Conduit Layout



NOTE: The suggestion provided may or may not be suitable for your application. Please consider this carefully before incorporating it into your design or installation. US Digital Designs disclaims any responsibility for accuracy or completeness.

Message Remote Suggested Conduit Layouts



NOTE: The suggestion provided may or may not be suitable for your application. Please consider this carefully before incorporating it into your design or installation. US Digital Designs disclaims any responsibility for accuracy or completeness.

rrm design group

rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER JEFFREY M. THOMA ELECTRICAL STATE OF CALIFORNIA

EXPIRES: 09/30/26
THOMA #22-8049

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR EXPRESS WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DRAWINGS FOR AGENCY REVIEW SHALL NOT CONSTITUTE PUBLICATION OF ANY WORK OR RESULT.

RRM DESIGN GROUP COPYRIGHT 2025
RRM IS A CALIFORNIA CORPORATION

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

FIRE STATION ALERTING SYSTEM (FSAS) DETAILS

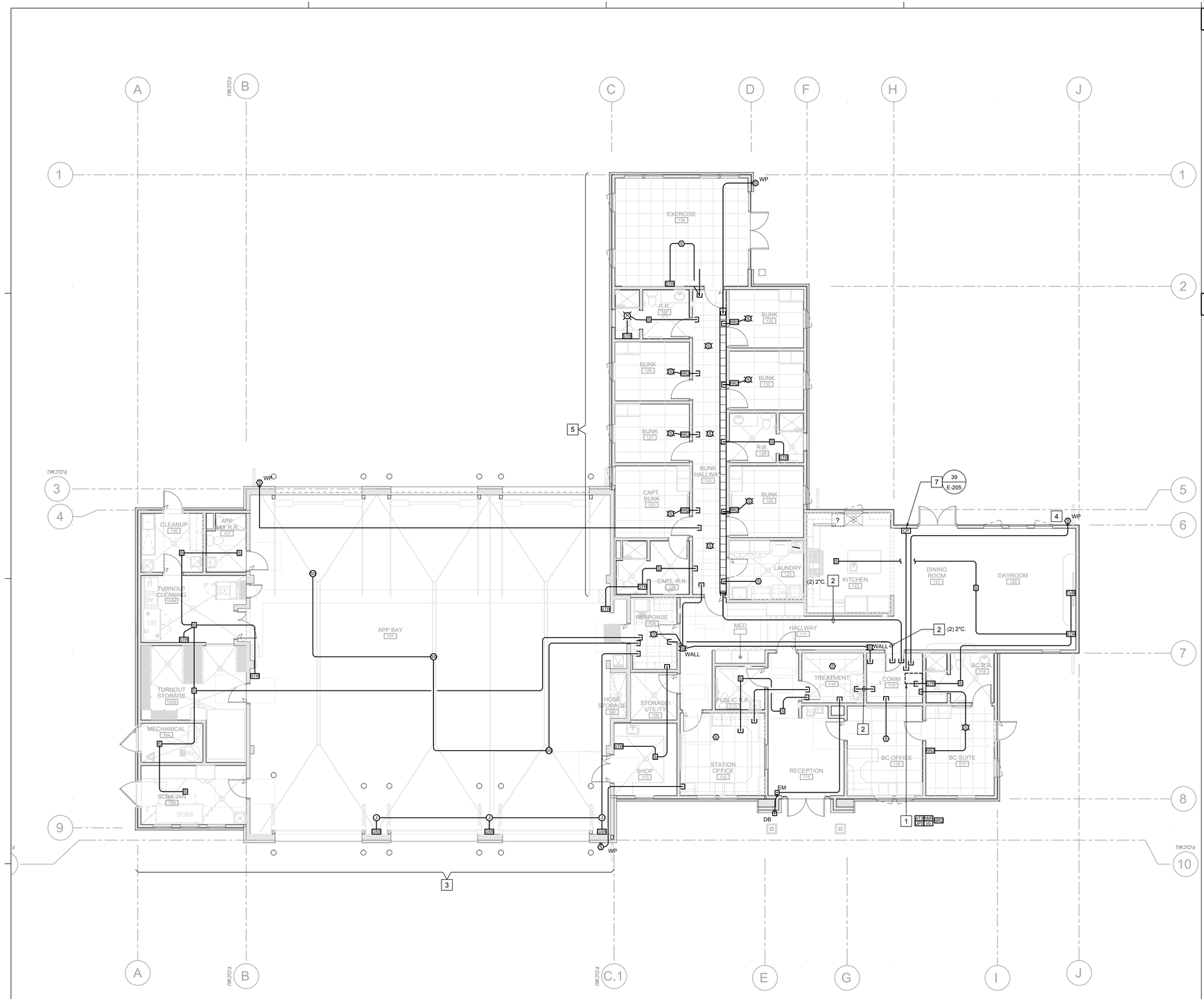
BID DOCUMENTS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER	CJ
DRAWN BY	TR
CHECKED BY	CJ, JT
DATE	MAY 15 2026
PROJECT NUMBER	2471-01-CI21
SHEET	E-142

County of Madera – Certified Plans Approved Under the 2022 California Building Code
Building Division
Date 05/04/2026
Plans and Drawings reviewed without signature

Plotted: Apr 30, 2026 - 7:58am - Chris - K:\ENG\2022\22-604\22-6049_E142_FSAS DETAIL.dwg



☐ REFERENCE NOTES

1. 2-POST RACK FOR FIRE STATION SYSTEM EQUIPMENT. REFER TO ENLARGED PLAN 2, NOTE 4 ON SHEET E-112.
2. CONDUIT SLEEVES ABOVE T-BAR CEILING SPACES. (TYPICAL).
3. SPEAKER LOCATION BETWEEN GRID A THROUGH C.1, STUB ALL SPEAKER CONDUITS ABOVE ACCESSIBLE CEILING SPACE IN RESPONSE ROOM 108. (UON)
4. HOME RUN TO COMMUNICATION ROOM.
5. SPEAKER IN THIS LOCATION. STUB TO CABLE TRAY.
6. SWITCH CONTROLS KITCHEN AND DAYROOM SPEAKERS.
7. GAS SHUT OF CONTROL PANEL PER PLUMBING PLANS.

GENERAL FSAS NOTES

A. ALL INFRASTRUCTURE, CONDUIT, ELECTRICAL BOXES AND ENCLOSURES SHALL BE PROVIDED AND PERFORMED BY ELECTRICAL CONTRACTOR. REFER TO LEGEND (SHEET E-141) AND ROUGH-IN DETAILS (SHEET E-142)

B. ELECTRICAL CONTRACTOR MUST FURNISH ALL USDD PHONEIX G2 FSA SYSTEM. ONLY USDD CERTIFIED CONTRACTOR CAN RUN ALL FSAS REQUIRED WIRES AND PERFORM THE FINAL SYSTEM AND PERIPHERAL EQUIPMENT HOOK-UP AND CONNECTIONS AND A FINAL WALK THRU TEST AND VERIFICATION OF ALL SYSTEM COMPONENTS AND OPERATIONS.

C. ALL CONDUIT SHOWN ON PLANS SHALL BE 3/4"C (EMT) UON.

1 FIRE STATION ALERTING SYSTEM FLOOR PLAN
E-142 1/8" = 1'-0"

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER — JEFFREY M. THOMA — ELECTRICAL — STATE OF CALIFORNIA

EXPIRES: 09/30/26
THOMA #22-8049

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE PLANS FOR PUBLIC AGENCY REVIEW SHALL NOT CONSTITUTE PUBLICATION AND SHALL NOT DESTROY RRM'S COPYRIGHT.
RRM DESIGN GROUP COPYRIGHT 2025
RRM IS A CALIFORNIA CORPORATION

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

BID DOCUMENTS

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

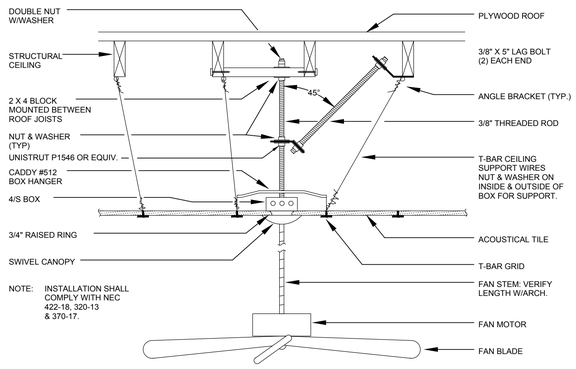
FIRE STATION ALERTING SYSTEM (FSAS) FLOOR PLAN

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: CJ
DRAWN BY: TR
CHECKED BY: CJ, JT
DATE: MAY 2026 (Date: 05/04/2026)
PROJECT NUMBER: 2471-01-CI21
SHEET: E-142

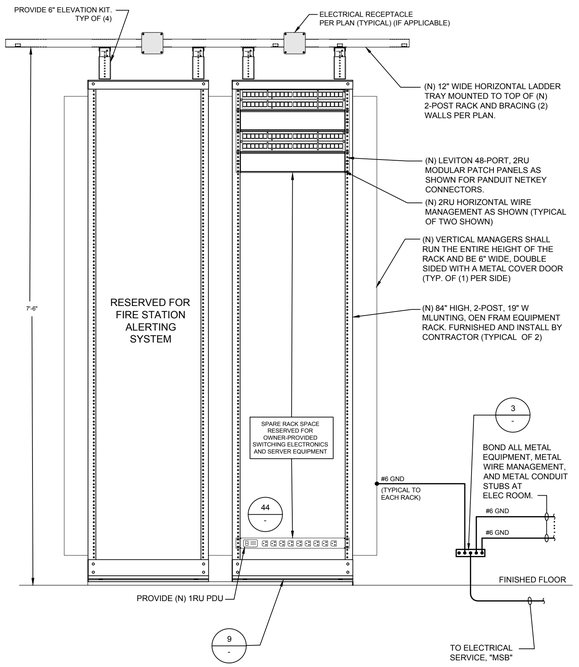
County of Madera – Building Division — Plans Approved Under the 2022 California Building Code and Madera County Ordinance

Apr 30, 2026 - 7:56am - Chris - K:\ENG\2022\22-8049\22-8049_E143_FSAS FLOOR PLAN.dwg



7 FAN MOUNTING DETAIL AT T-BAR CEILING

E-201 NTS



NOTES:

1. ALL EQUIPMENT RACKS SHALL BE GROUNDED INDEPENDENTLY TO TELECOMMUNICATIONS GROUNDING BUS BAR.
2. ORGANIZE ALL PATCHING BY SYSTEM AND MATCH ONE SWITCH PER PATCH PANEL.
3. REFER TO FLOOR PLAN FOR LOCATION OF THE 2-POST RACK. RACKS ARE NOT LOCATED SIDE BY SIDE.

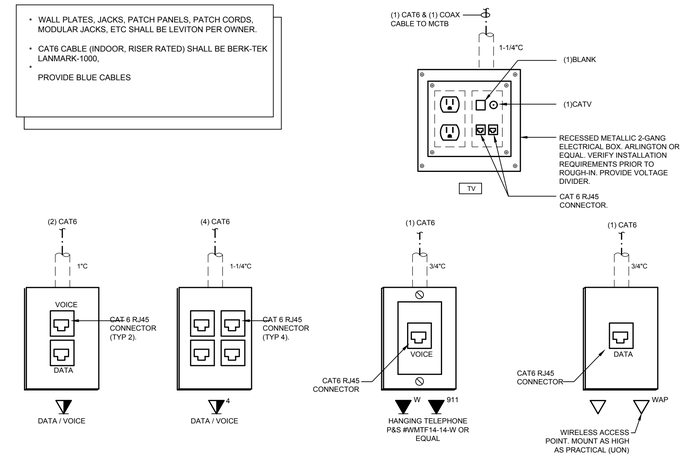
A. COMMUNICATION ROOM UNINTERRUPTIBLE POWER SUPPLY (UPS) REQUIREMENTS
1. QTY. 1 - APC SMART UPS MODEL = SMX2200RMLV2U (APC SMART-UPS X 2200VA RACK/TOWER LCD UPS)
2. QTY. 2 - APC SMART UPS BATTERY MODEL = SMX120RMBP2U (APC SMART-UPS X 12V EXTERNAL BATTERY PACK/RACK/TOWER).
3. QTY. 1 - APC SMART UPS MANAGEMENT CARD MODEL = AP9631 (APC UPS NETWORK MANAGEMENT CARD WITH ENVIRONMENTAL MONITORING).

B. COMMUNICTYIONS ROOM POWER DISTRIBUTION UNIT (PDU) REQUIREMENTS.
1. QTY 1 - APC RACK PDU MODEL = AP9563 (APC RACK PDU, BASIC, 1U, 20A, 120V, (1)5-20; 5-20P)

5 COMMUNICATION RISER DIAGRAM

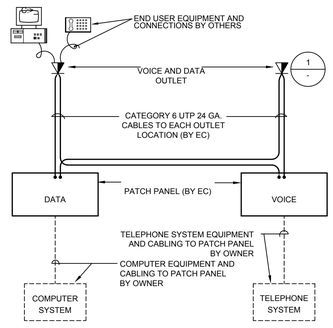
E-201 NTS

- WALL PLATES, JACKS, PATCH PANELS, PATCH CORDS, MODULAR JACKS, ETC SHALL BE LEVITON PER OWNER.
- CAT6 CABLE (INDOOR, RISER RATED) SHALL BE BERK-TEK LANMARK-1000,
- PROVIDE BLUE CABLES



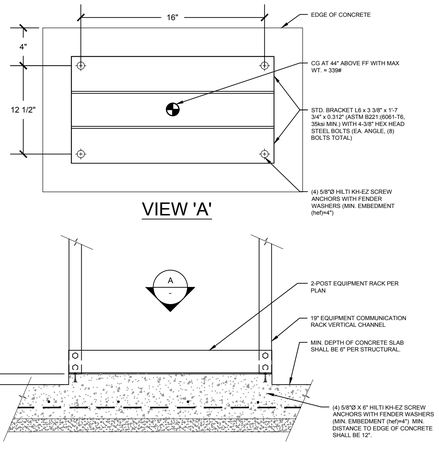
1 ELEVATION OF COMMUNICATION SYSTEM OUTLETS

E-201 NTS



2 VOICE/DATA SYSTEM WIRING DIAGRAM

E-201 NTS

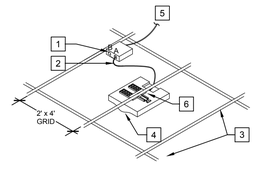


8 ROOF MOUNTED WEATHERHEAD MOUNTING DETAIL

E-201 NTS

9 DATA RACK ANCHORAGE

E-201 NTS

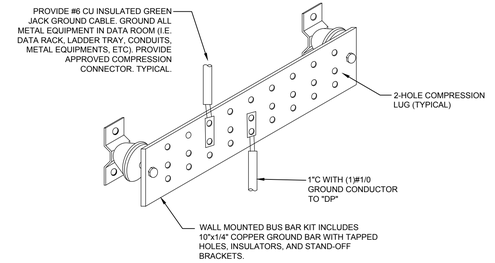


☐ REFERENCE NOTES

1. 2-PORT BISCUIT MOUNTED IN ACCESSIBLE CEILING SPACE. EC SHALL PROVIDE LABELS FOR EACH CABLE AT BISCUIT, AND SHALL TERMINATE (FEMALE) AND TEST BOTH CABLES, AND PROVIDE TEST RESULTS TO OWNER.
2. (1) (N) 2-METER CAT6 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. T-BAR CEILING. PENETRATIONS THROUGH CEILING TILES SHALL BE SEALED SO AS TO MAINTAIN FIRE RATING OF CEILING TILE IF APPLICABLE.
4. (N) CEILING WIRELESS ACCESS POINT, FURNISHED AND INSTALLED BY OWNER.
5. (1) (N) CAT6 CABLES FROM IDF TO BISCUIT. ALL CAT6 CABLE AND TERMINATION HARDWARE (INCLUDING MODULAR JACKS, PATCH CABLES, ETC.) PROVIDE WITH 20FT SLACK ABOVE T-BAR CEILING.
6. WAP MANUFACTURER PROVIDED T-BAR MOUNTING CLIP. ADHERE STRICTLY TO MANUFACTURER PROVIDED INSTALLATION INSTRUCTIONS.

6 WIRELESS ACCESS POINT AT T-BAR CEILING

E-201 NTS



3 GROUND BAR DETAIL AT COMM. BACKBOARD

E-201 NTS

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER JEFFREY M. THOMA ELECTRICAL STATE OF CALIFORNIA

EXPIRES: 09/30/26
THOMA #22-8049

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE PLANS FOR PERMIT, AGENCY REVIEW, BIDDING, OR CONSTRUCTION PURPOSES DOES NOT CONSTITUTE PUBLICATION.
RRM DESIGN GROUP COPYRIGHT 2025
RRM IS A CALIFORNIA CORPORATION

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

ELECTRICAL DETAILS

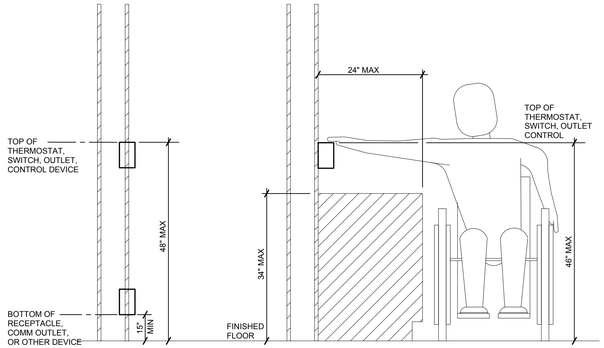
NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: CJ
DRAWN BY: TR
CHECKED BY: CJ, JT
DATE: MAY 1, 2026
Date: 05/04/2026
PROJECT NUMBER: 2471-01-CI21
SHEET: E-201

BID DOCUMENTS

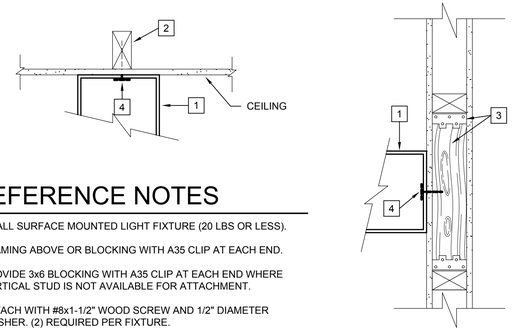
County of Madera – Certified Building Division
This Plan Approved Under the 2022 California Building Code
Date: 05/04/2026
Valid only when signed and dated in blue ink. Copies and Unsigned/Undated Plans not valid without signature

Apr 30, 2026 - 7:57am - Chris - K:\ENG\2022\22-8049\22-8049_E201-E207_DETAILS.dwg



16 TYPICAL DEVICE ADA MOUNTING HEIGHTS

E-202 NTS

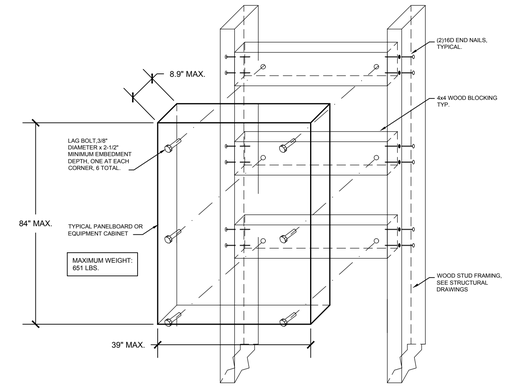


☐ REFERENCE NOTES

1. SMALL SURFACE MOUNTED LIGHT FIXTURE (20 LBS OR LESS).
2. FRAMING ABOVE OR BLOCKING WITH A35 CLIP AT EACH END.
3. PROVIDE 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.

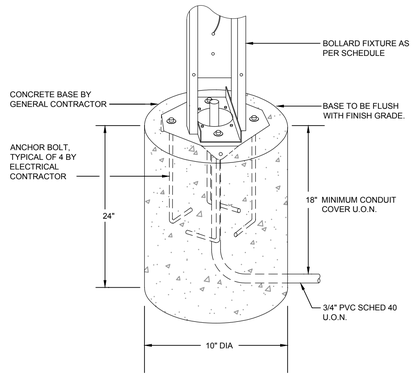
13 TYPICAL SURFACE MOUNTED LIGHT FIXTURE MOUNTING DETAIL AT WOOD WALL

E-202 NTS



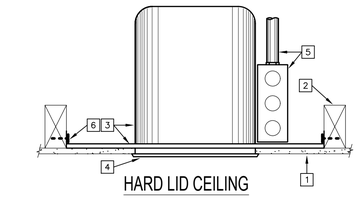
10 PANEL DP MOUNTING DETAIL

E-202 NTS



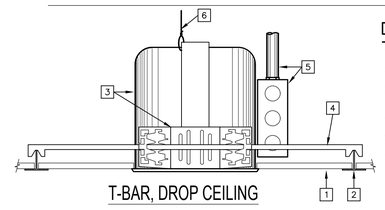
17 BOLLARD BASE MOUNTING DETAIL

E-202 NTS



☐ REFERENCE NOTES

1. CEILING MATERIAL
2. FRAMING ABOVE OR BLOCKING BETWEEN AS REQUIRED.
3. RECESSED HOUSING WITH EXPANDABLE MOUNTING BARS.
4. FIXTURE TRIM
5. OUTLET BOX / BRANCH CIRCUIT
6. ATTACH TO FRAMING WITH #8x1-1/2" WOOD SCREWS. TOTAL (4) PER FIXTURE.

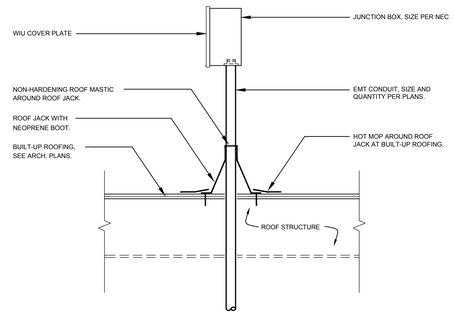


☐ REFERENCE NOTES

1. CEILING MATERIAL
2. T-BAR CEILING RUNNER.
3. RECESSED LIGHT HOUSING WITH QUICK MOUNTING BRACKET ON BOTH SIDES.
4. T-BAR FIXTURE HANGING BAR.
5. OUTLET BOX / BRANCH CIRCUIT
6. #12 LIGHT FIXTURE SUPPORT WIRE (MIN. 2 PER FIXTURE). CONNECT TO FIXTURE WITH MINIMUM OF 4 TIGHT TURNS AND TO STRUCTURE ABOVE PER ARCHITECTURAL ATTACHEMENT DETAILS.

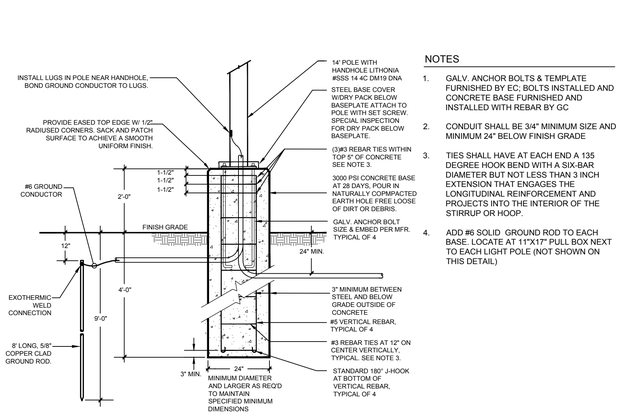
14 RECESSED DOWNLIGHT MOUNTING DETAIL

E-202 NTS



11 TYPICAL ROOF CONDUIT PENETRATION DETAIL

E-202 NTS

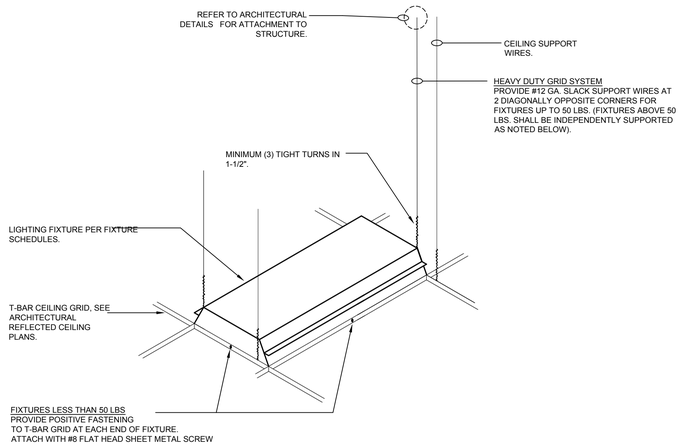


NOTES

1. GALV. ANCHOR BOLTS & TEMPLATE FURNISHED BY EC; BOLTS INSTALLED AND CONCRETE BASE FURNISHED AND INSTALLED WITH REBAR BY GC
2. CONDUIT SHALL BE 3/4" MINIMUM SIZE AND MINIMUM 24" BELOW FINISH GRADE
3. TIES SHALL HAVE AT EACH END A 135 DEGREE HOOK BEND WITH A SIX-BAR DIAMETER BUT NOT LESS THAN 3 INCH EXTENSION THAT ENGAGES THE LONGITUDINAL REINFORCEMENT AND PROJECTS INTO THE INTERIOR OF THE STIRRUP OR HOOP.
4. ADD #6 SOLID GROUND ROD TO EACH BASE. LOCATE AT 1'1"X17" PULL BOX NEXT TO EACH LIGHT POLE (NOT SHOWN ON THIS DETAIL)

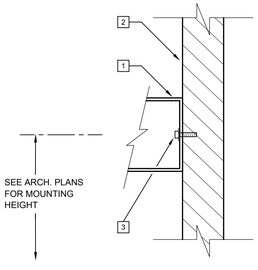
18 TYPICAL POLE MOUNTING DETAIL

E-202 NTS



15 LAY-IN T-BAR FIXTURE MOUNTING DETAIL

E-202 NTS



☐ REFERENCE NOTES

1. SMALL SURFACE MOUNTED LIGHT FIXTURE. (20 LBS. OR LESS)
2. CONCRETE WALL.
3. 3/8" DIAMETER HILTI KBTZ WITH 2-1/2" EMBEDMENT WITH INSTALLATION PER ICC REPORT NUMBER ESR-1917. REFERENCE STRUCTURAL DETAIL.

NOTE:

FLUSH MOUNTED OUTLET BOX IS NOT SHOWN FOR CLARIFICATION.

12 TYPICAL SURFACE MOUNTED LIGHT FIXTURE MOUNTING DETAIL AT MASONARY WALL

E-202 NTS

BID DOCUMENTS

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER — JEFFREY M. THOMA — ELECTRICAL — STATE OF CALIFORNIA

EXPIRES: 09/30/26
THOMA #22-8049

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR EXPRESS WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DRAWINGS FOR PUBLIC AGENCY REVIEW SHALL NOT CONSTITUTE PUBLICATION OR WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2025
RRM IS A CALIFORNIA CORPORATION

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

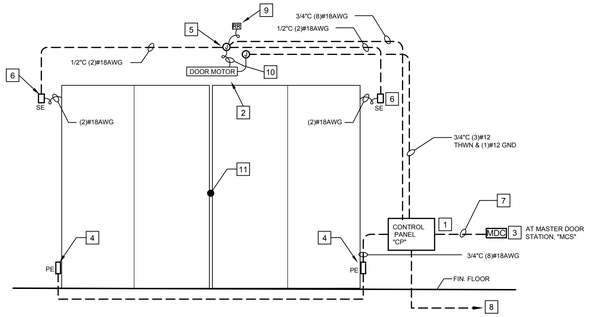
ELECTRICAL DETAILS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER	CJ
DRAWN BY	TR
CHECKED BY	CJ, JT
DATE	MAR 4, 2026
PROJECT NUMBER	2471-01-CI21
SHEET	E-202

County of Madera – CDD Building and Fire Safety Division
Approved for Issuance Building Permit
Date 05/04/2026
Subject to Codes and Ordinances, not valid without signature

Apr 30, 2026 - 7:57am - Chris - K:\ENG\2022\22-8049\22-8049_E201-E207_DETAILS.dwg



☐ REFERENCE NOTES

1. DOOR SYSTEM CONTROL PANEL "CP" WITH INTEGRAL DISCONNECT SWITCH AND CONTROL. MOUNT AT +48"AFF MEASURED FROM TOP OF BOX.
2. CONNECT TO DOOR MOTOR. PROVIDE 3-PHASE POWER. REFER TO FLOOR PLAN.
3. MASTER CONTROL STATION FURNISHED BY MANUFACTURER EC TO INSTALL. REFER TO COMMUNICATION PLAN FOR LOCATION.
4. PHOTO SENSOR AT EXTERIOR JAMB. PROVIDE (4)#18 AWG PER PER MANUFACTURER REQUIREMENTS.
5. PROVIDE FLUSH MOUNT 1-GANG BOX FOR DOOR CONTROL.
6. SAFETY EDGE SWITCH. PROVIDE FLUSH MOUNT 1-GANG BOX. (TYP.)
7. 3/4"C (WITH (5)#18 AWG. TO MASTER CONTROL STATION "MCS". (SEE COMMUNICATION PLAN). EACH PER "MCS". THERE ARE TWO LOCATIONS.
8. 3/4" 3-PHASE FEEDER CONDUIT TO PANELBOARD.
9. RADIO RECEIVER. PROVIDE (3)#18 AWG PER MANUFACTURER REQUIREMENTS.
10. TO CLOSE PROXIMITY SENSOR. PROVIDE (6)#18 AWG PER MANUFACTURER REQUIREMENTS.
11. PROVIDE DOOR SENSING EDGE. COORDINATE WITH MANUFACTURER FOR ROUGH-IN REQUIREMENTS.

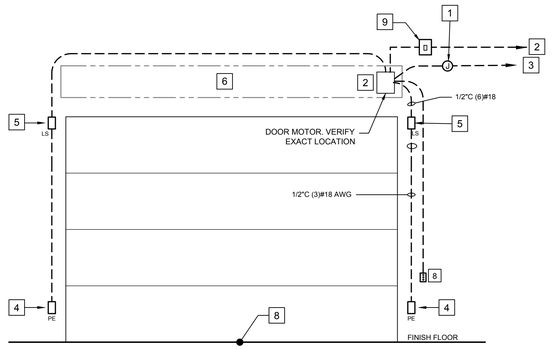
NOTES:

- INFORMATION SHOWN IS FOR REFERENCE AND BIDDING PURPOSES ONLY. COORDINATE/VERIFY EXACT BOX REQUIREMENTS, ARCHITECT AND LOCATIONS WITH THE DOOR INSTALLER AND APPROVED SHOP DRAWINGS PRIOR TO ROUGH-IN. ALL BOXES TO BE FLUSH MOUNTED AND CONDUITS CONCEALED IN BUILDING CONSTRUCTION.
- THE ELECTRICAL CONTRACTOR SHALL BEAR FULL COSTS AND RESPONSIBILITIES FOR ANY CONFLICTS AS RESULT FOR NON-COORDINATION WITH DOOR INSTALLER.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING PER MANUFACTURER REQUIREMENTS.
- MOTOR, 24VAC CONTROL AND 12VDC WIRING SHOULD BE ALL IN SEPARATE CONDUIT RUNS.
- ALL CONDUIT HUBS MUST HAVE NEMA 4 RATING.
- FUSED DISCONNECT TO BE PROVIDED BY EC, FUSES TO BE OF TIME DELAY TYPE WITH MAXIMUM RATING AS INDICATED.
- ALL CONDUITS SHOWN ARE MINIMUM 3/4"C (UON) ON PLANS

REFER TO APPROVED SUBMITTAL FOR ROUGH-IN REQUIREMENTS

26 TYPICAL BI-FOLDING DOOR

E-203 NTS



☐ REFERENCE NOTES

1. CONTROL OUTLET, MOUNTED AT ADJACENT DOOR MOTOR. REFER TO COMMUNICATIONS FLOOR PLANS.
2. PROVIDE 208 VOLT 3-PHASE CIRCUIT TO DOOR MOTOR. HOMERUN TO PANELBOARD PER POWER PLAN.
3. 3/4"C (5)#18 AWG TO MASTER CONTROL STATION "MCS". (SEE COMMUNICATION PLAN). EACH PER "MCS".
4. PHOTO ELECTRIC SENSOR BOX AT 6" AFF. PROVIDE A 1-GANG FLUSH BOX. (VERIFY WIRING REQUIREMENTS WITH MANUFACTURER).
5. LIMIT SWITCH. PROVIDE A 1-GANG FLUSH BOX,
6. ROLLING DOOR COORDINATE WITH DOOR INSTALLER. (TYPICAL).
7. PROVIDE DOOR SENSING EDGE. COORDINATE WITH MANUFACTURER FOR ROUGH-IN REQUIREMENTS.
8. PROVIDE FLUSH MOUNT 1-GANG BOX FOR DOOR CONTROL.
9. PROVIDE 208V 3PH MOTORIZED TOGGLE OPERATED SWITCH. MOUNT AT ADJACENT TO DOOR MOTOR. VERIFY HP RATING WITH MANUFACTURER.

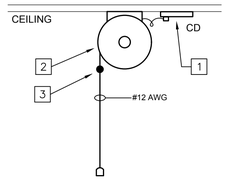
NOTES:

- INFORMATION SHOWN IS FOR REFERENCE AND BIDDING PURPOSES ONLY. COORDINATE/VERIFY EXACT BOX REQUIREMENTS AND LOCATIONS WITH THE DOOR INSTALLER, ARCHITECT, AND APPROVED SHOP DRAWINGS PRIOR TO ROUGH-IN. ALL BOXES TO BE FLUSH MOUNTED AND CONDUITS CONCEALED IN BUILDING CONSTRUCTION.
- THE ELECTRICAL CONTRACTOR SHALL BEAR FULL COSTS AND RESPONSIBILITIES FOR ANY CONFLICTS AS RESULT FOR NON-COORDINATION WITH DOOR INSTALLER.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING PER MANUFACTURER REQUIREMENTS.
- ALL CONDUIT BOXES SHALL NOT BE VISIBLE THRU GLASS FROM OUTSIDE.

REFER TO APPROVED SUBMITTAL FOR ROUGH-IN REQUIREMENTS

23 TYPICAL OVERHEAD DOOR

E-203 NTS

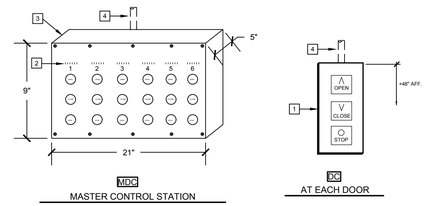


☐ REFERENCE NOTES

1. TWIST-LOCK RATED RECEPTACLE LABELED "CORD DROP" AS NOTED ON ELECTRICAL PLAN.
2. COMBINATION AIR REEL AND INDUSTRIAL CORD REEL FURNISHED BY MECHANICAL CONTRACTOR. (DURO 2706). REFER TO PLUMBING DETAIL FOR ADDITIONAL INFORMATION.
3. SET HEIGHT OF CORD AS DIRECTED BY THE CITY VIA BALL STOP.

19 CORD REEL DETAILS

E-203 NTS

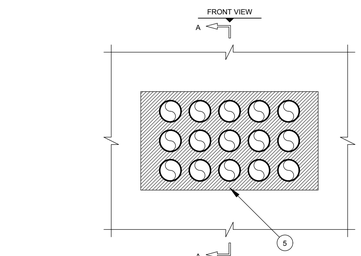


☐ REFERENCE NOTES

1. PUSH-BUTTON STATION BY FOLDING DOOR CONTRACTOR. PROVIDE FLUSH BOX/RING AS REQUIRED. (VERIFY) TYPICAL.
2. AT MASTER CONTROL STATION, PROVIDE ENGRAVED PLATE INDICATING DOOR CONTROLLED. TYPICAL.
3. MASTER PUSH-BUTTON STATIONS BY FOLDERING DOOR CONTRACTOR. INSTALL FLUSH MOUNTED MANUFACTURER ROUGH-IN BOX.
4. CONDUIT TO CONTROL OUTLET AT DOOR MOTOR. SEE FLOOR PLAN. (LV CONTROL BY DOOR CONTRACTOR).

20 ELEVATION OF DOOR CONTROL STATIONS

E-203 NTS



1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE. OPENING TO BE "FRAMED-OUT".
3. ONE OR MORE MAXIMUM 2" NOMINAL DIAMETER EMT OR STEEL CONDUIT.
4. MINIMUM 2-1/2" OR 2-3/4" THICKNESS MINERAL WOOL (MINIMUM 4 PCF DENSITY) TIGHTLY PACKED FOR 1-HR. OR 2-HR. FIRE-RATING, RESPECTIVELY.
5. MINIMUM 5/8" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT.

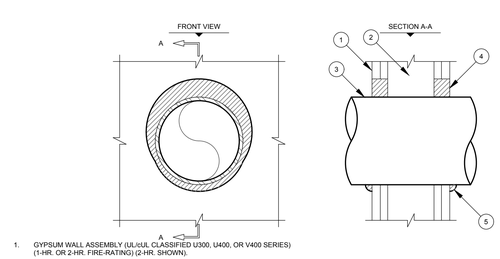
NOTES:

1. MAXIMUM SIZE OF OPENING = 18" x 10". MAXIMUM WIDTH BETWEEN WOOD STUD WALLS IS LIMITED TO 14-1/2".
2. ANNULAR SPACE BETWEEN PIPES AND PERIPHERY OF OPENING = MINIMUM 1/2", MAXIMUM 2-3/8".
3. ANNULAR SPACE BETWEEN PIPES = MINIMUM 1/2", MAXIMUM 5/8".
4. EMT OR STEEL CONDUIT MAY BE INSTALLED AT AN ANGLE NOT GREATER THAN 45° FROM PERPENDICULAR.

F-RATING = 1-HR. OR 2-HR.
T-RATING = 1/2-HR.

27 MULTIPLE METAL PIPE THORUGH 1HR OR 2HR GYPSUM WALL ASSEMBLY

E-203 NTS



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.

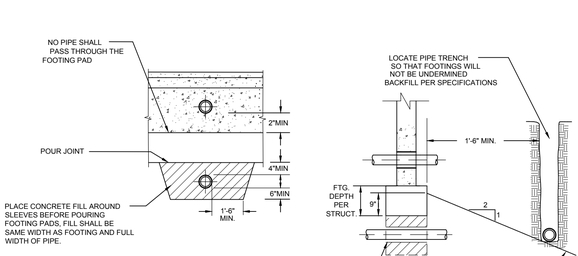
NOTES:

1. MAXIMUM DIAMETER OF OPENING = 32".
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.

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.

24 METAL PIPE THORUGH 1HR OR 2HR GYPSUM WALL ASSEMBLY

E-203 NTS



GENERAL NOTES

1. CONCRETE FILL TO BE THE SAME WIDTH AS FOOTING AND FULL WIDTH OF PIPE TRENCH. (BACKFILL PER SPECIFICATIONS).
2. CENTER PIPE IN PVC OR GALVANIZED METAL SLEEVE THAT HAS A MIN. I.D. 2" GREATER THAN THE PIPES O.D.
3. WATERPROOF OPENING AROUND PIPE PER GENERAL SPECIFICATIONS.
4. COORDINATE INSTALLATION WITH STRUCTURAL ENGINEER.

21 TYPICAL CONDUIT NEAR/THRU FOOTING DETAIL

E-203 NTS

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER
JEFFREY M. THOMA
ELECTRICAL
STATE OF CALIFORNIA

EXPIRES: 09/30/26
THOMA #22-8049

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DRAWINGS TO ANY AGENCY FOR REVIEW SHALL NOT CONSTITUTE PUBLICATION OF ANY WORK OR PUBLIC DISCLOSURE.
RRM DESIGN GROUP COPYRIGHT 2025
RRM IS A CALIFORNIA CORPORATION

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

ELECTRICAL DETAILS

NO.	REVISION	DATE

BID DOCUMENTS

PROJECT MANAGER: CJ
DRAWN BY: TR
CHECKED BY: CJ, JT
DATE: MAR 27 2026
PROJECT NUMBER: 2471-01-CI21

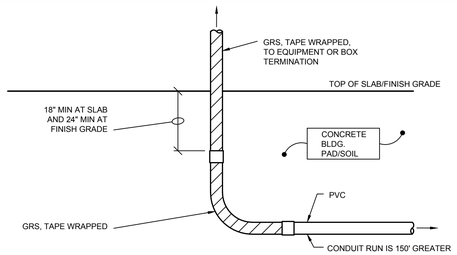
County of Madera – Community Development Department
Building Division
Plans Approved Under the 2022 California Building Codes
Approved: Date: 05/04/2026
Plans and Codes and Ordinances, not valid without signature

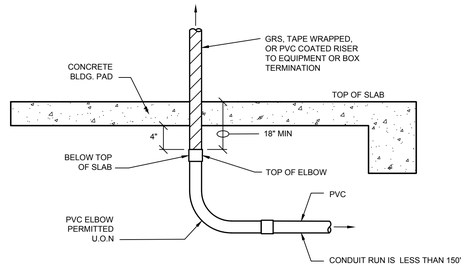
SHEET: E-203

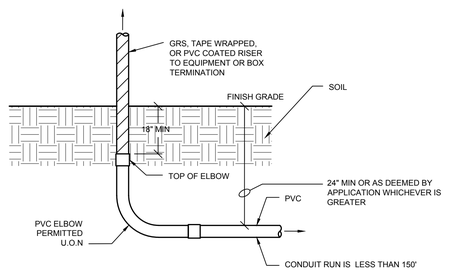
Apr 30, 2026 - 7:57am - Chris - K:\ENG\2022\22-8049\22-8049_E201-E207_DETAILS.dwg

34 NOT USED

E-204 NTS







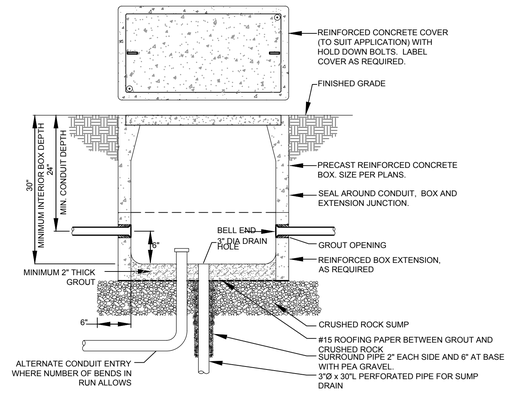
NOTES:

UNDERGROUND CONDUITS AND TRANSITION TO ABOVE GRADE SHALL BE AS FOLLOWS:

1. PVC ELBOWS ALLOWED IF TOP OF ELBOW IS MINIMUM 18" BFG OR BELOW TOP OF SLAB, OTHERWISE GRS, TAPE WRAPPED, ELBOWS ARE REQUIRED.
2. GRS ELBOWS ARE REQUIRED IF CONDUIT RUN IS 150' GREATER.
3. GRS RISERS ARE REQUIRED FROM ELBOW BELOW GRADE TO EQUIPMENT (DEVICE, OUTLET, PANEL, CABINET, ETC.) ABOVE GRADE.
4. GRS ELBOWS/RISERS TO BE TAPED WRAPPED (1/2" LAPPED) TO 3" ABOVE FINISH GRADE OR TOP OF SLAB.

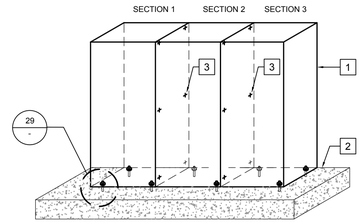
36 UNDERGROUND CONDUITS AND TRANSITION TO ABOVE GRADE/SLAB

E-204 NTS



31 TYPICAL PULL BOX DETAIL

E-204 NTS



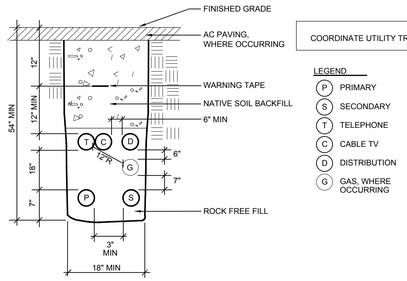
☐ REFERENCE NOTES

1. ELECTRICAL DISTRIBUTION EQUIPMENT OR CABINET.
2. CONCRETE SLAB WHERE OCCURS
3. MINIMUM 3/8" THRU-BOLT SECTION TO SECTION. (TYPICAL)

SECTION 1 = UNDERGROUND PULL SECTION AND METER	SECTION 2 = MAIN SECTION	SECTION 3 = DISTRIBUTION SECTION
DIMENSION: 35"W X 90"H X 41"D	DIMENSION: 35"W X 90"H X 41"D	DIMENSION: 40"W X 90" X 30"D
WEIGHT: 712LBS	WEIGHT: 762LBS	WEIGHT: 992LBS

28 MSB MOUNTING DETAIL

E-204 NTS



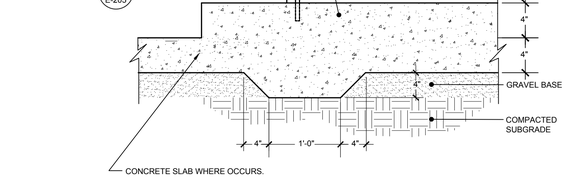
COORDINATE UTILITY TRENCH DETAILS WITH UTILITY COMPANIES

LEGEND

- (P) PRIMARY
- (S) SECONDARY
- (T) TELEPHONE
- (C) CABLE TV
- (D) DISTRIBUTION
- (G) GAS, WHERE OCCURRING

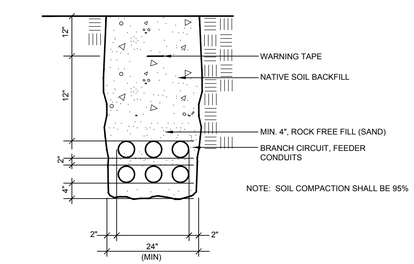
32 TYPICAL UTILITY TRENCH DETAIL

E-204 NTS



29 SWITCHBOARD MOUNTING DETAIL

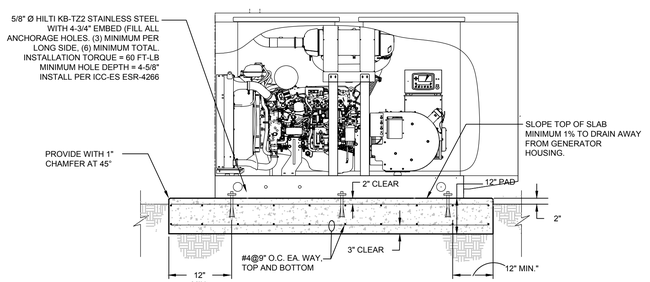
E-204 NTS



NOTE: SOIL COMPACTION SHALL BE 95%

33 TYPICAL BRANCH CIRCUIT TRENCH DETAIL

E-204 NTS



*HILTI KWIK-BOLT-BOLT TZ STAINLESS STEEL, ICC-ES ESR-1917
*REFER TO STRUCTURAL PLANS FOR THE GENERATOR PAD REQUIREMENTS
(THICKNESS, CONCRETE STRENGTH 4000PSI, & REINFORCING)

DIMENSION: 134"L X 66"H X 60"D
WEIGHT: 5950LBS

30 GENERATOR MOUNTING CROSS SECTION MOUNTING DETAIL

E-204 NTS

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER
JEFFREY M. THOMA
ELECTRICAL
STATE OF CALIFORNIA

EXPIRES: 09/30/26
THOMA #22-8049

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE PLANS FOR PUBLIC AGENCY REVIEW SHALL NOT CONSTITUTE PUBLICATION AND SHALL NOT DESTROY RRM'S COPYRIGHT.
RRM DESIGN GROUP COPYRIGHT 2025
RRM IS A CALIFORNIA CORPORATION

thoma ENGINEERING
THOMA ELECTRIC, INC.

P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

BID DOCUMENTS

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

ELECTRICAL DETAILS

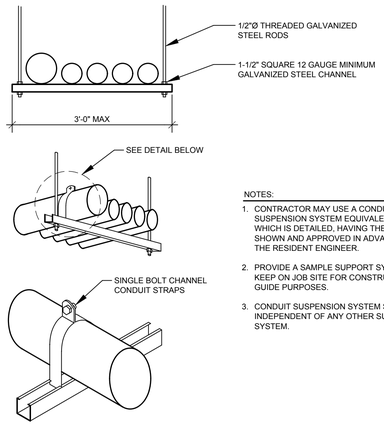
NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: CJ
DRAWN BY: TR
CHECKED BY: CJ, JT
DATE: MAY 27, 2026
PROJECT NUMBER: 2471-01-CI21

County of Madera – Community Development Department
Plans Approved Subject to Conditions Noted Under this 2022 California Building and Fire Codes and Ordinances; not valid without signature
Date 05/04/2026

SHEET E-204

Apr 30, 2026 - 7:57am - Chris - K:\ENG\2022\22-8049\22-8049_E201-E207_DETAILS.dwg

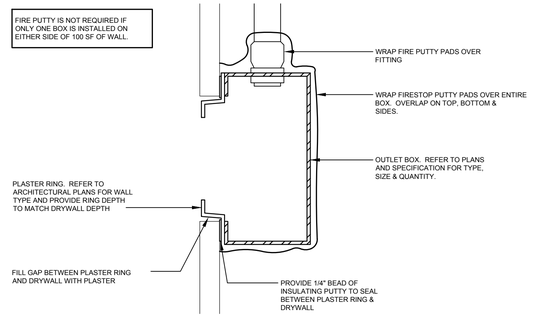


NOTES:

1. CONTRACTOR MAY USE A CONDUIT SUSPENSION SYSTEM EQUIVALENT TO THAT WHICH IS DETAILED, HAVING THE FEATURES SHOWN AND APPROVED IN ADVANCE BY THE RESIDENT ENGINEER.
2. PROVIDE A SAMPLE SUPPORT SYSTEM TO KEEP ON JOB SITE FOR CONSTRUCTION GUIDE PURPOSES.
3. CONDUIT SUSPENSION SYSTEM SHALL BE INDEPENDENT OF ANY OTHER SUSPENSION SYSTEM.

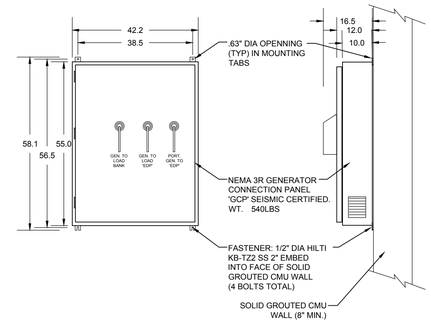
43 TYPICAL CONDUIT SUPPORT SYSTEM DETAIL

E-205



40 TYPICAL DEVICE INSTALLATION - RATED WALLS

E-205 NTS



37 "GCP" MOUNTING DETAIL

E-205 NTS

Section 5, Electric Metering: General

5.4.4. (continued)

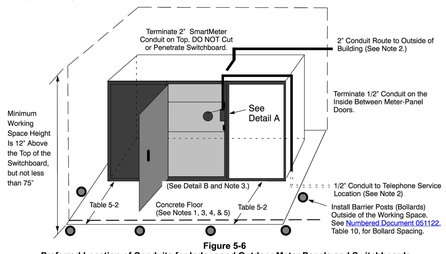
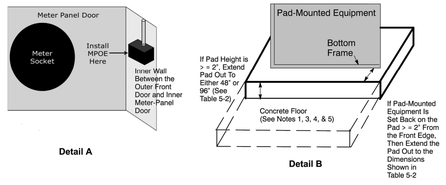


Figure 5-6
Preferred Location of Conduits for Indoor and Outdoor Meter Panels and Switchboards



Notes in reference to Figure 5-6.

1. A level, concrete structure (e.g., floor, pad) must extend out the minimum-required distance in front of all sections to which PG&E requires access. This structure is used for floor-standing equipment (e.g., switchboard, pedestals greater than 200 amps, termination enclosure).
2. A 1/2-inch phone-line conduit may be required for all indoor and outdoor meter panels rated 500 kW or greater. See Item E. and Item F. in Subsection 5.2.3., "Applicant Responsibilities," on Page 5-3. A 2-inch SmartMeter conduit is required only for indoor, wall-mounted or pad-mounted meter-panel enclosures of any size.

Notes continued on the next page

5.4.4. (continued)

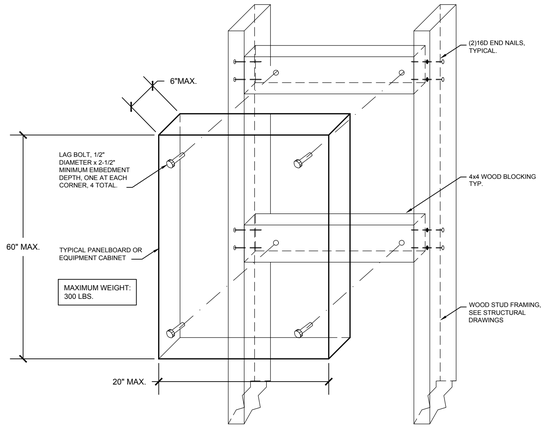
Notes in reference to Figure 5-6 (continued).

3. The switchboard's bottom horizontal support frame must not protrude more than 3 inches above the floor or pad. This is in front of all PG&E sections (see Detail B).
4. The pad-mounted equipment must be set back less than 2 inches from the front edge of a raised pad. And the concrete pad must be less than 2 inches above the ground or floor. This is true for all PG&E sections. Otherwise extend the pad outward.
5. For the finished surface type, see Subsection 5.4.4., "Working Space," on Page 5-17.

NOTE: BASED ON 2022-2023 PG&E GREEN BOOK. FOR REFERENCE ONLY. INSTALL PER CURRENT PG&E GREENBOOK

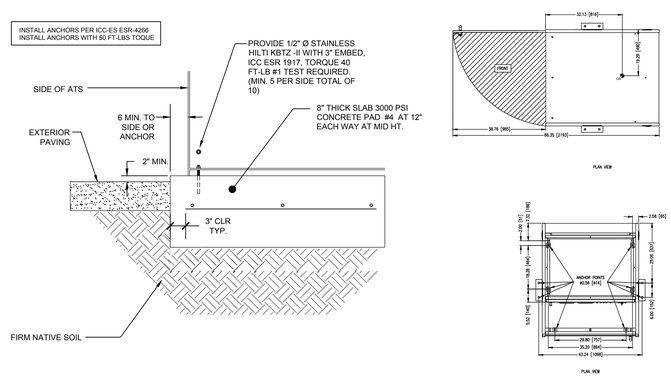
45 PG&E REQUIREMENTS

E-205 NTS



41 TYPICAL SURFACE MOUNTED PANEL/CABINET MOUNTING DETAIL

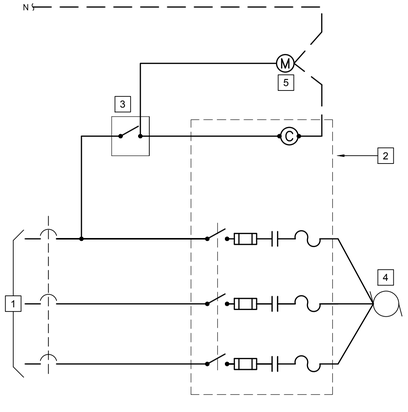
E-205 NTS



DIMENSIONS: 45.74"W X 49.35"D X 90"H
WEIGHT: 1850LBS

38 ATS MOUNTING DETAIL

E-205 NTS

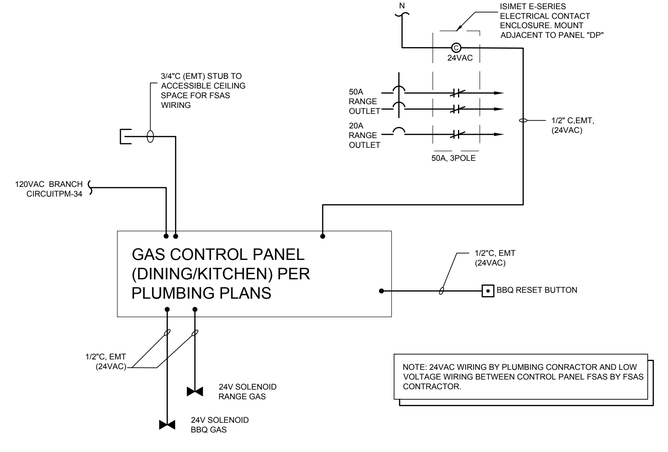


☐ REFERENCE NOTES

1. 208V 3 PHASE CIRCUIT.
2. COMBINATION STARTER. (SQUARE D CLASS 8538)
3. DOUBLE POLE SINGLE THROW FURNISHED AND INSTALL BY EC. REFER TO MECHANICAL PLANS FOR EXACT LOCATION. LABEL PLATE "APP BAY EXHAUST".
4. CONNECT TO ROOF MOUNTED EXHAUST FAN, "EF-8 PER MECHANICAL PLANS.
5. CONNECT 120V ACTUATOR PER MECHANICAL PLANS.

42 EXHAUST FAN EF-8 AND ACTUATOR INTERLOCKING WIRING DIAGRAM

E-205 NTS



39 GAS SHUTOFF CONTROL DIAGRAM

E-205 NTS

BID DOCUMENTS

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER JEFFREY M. THOMA ELECTRICAL STATE OF CALIFORNIA
EXPIRES: 09/30/26
THOMA #22-8049

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DRAWINGS FOR PUBLIC AGENCY REVIEW SHALL NOT CONSTITUTE PUBLICATION IN DEROGATION OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2025
RRM IS A CALIFORNIA CORPORATION

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

ELECTRICAL DETAILS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER	CJ
DRAWN BY	TR
CHECKED BY	CJ, JT
DATE	MAY 2026
PROJECT NUMBER	2471-01-CI21
SHEET	E-205

County of Madera – Certificate of Compliance – Building Division
Building and Fire Safety
Plans Approved Under the 2022 CBC
Date 05/04/2026
Codes and Ordinances met with without signature

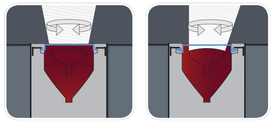
Apr 30, 2026 - 7:57am - Chris - K:\ENG\2022\22-8049\22-8049_E201-E207_DETAILS.dwg

M9700C LED INSTALLATION

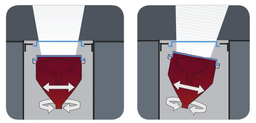
AIMING INSTRUCTIONS

⚠ **CAUTION: AVOID LOOKING DIRECTLY INTO LIGHT SOURCE DURING AIMING. FIXTURE LENS MAY BECOME HOT. AVOID CONTACT WITH BARE SKIN.**

5. Energize the fixture, allowing it to fully reach operating temperature and light output.
6. Rotate the LED module and its support ring (rotolock or aimlock) until desired position is achieved.
7. Once the desired aiming position is determined, secure the support ring into the housing with the attached fasteners. CAUTION: DO NOT OVER TIGHTEN (20 in-lbs or 2 N-m).
8. For the double lensed luminaires adjust the lamp module tilt by turning the single phillips head screw at the top of the module tilt ring.
9. Install the finish door assembly with the fasteners provided. CAUTION: DO NOT OVER TIGHTEN (20 in-lbs or 2 N-m).



Single lensed fixture can be aimed using 10˚ and 20˚ tilt lenses only. Lenses are made of prismatic glass that bend the beam of light. Tile lenses have an arrow molded into the top showing the direction the beam of light will be aimed. The entire lamp module and roto-lock ring can be spun 360˚ to aim. Once aiming has been set, lock the roto-lock ring down to maintain the aiming.



Double lens fixtures can be mechanically and optically aimed. The LED module can be mechanically aimed up to 15˚ by adjusting the tilt ring. FLC10 and FLC20 tilt lenses may also be used to optically aim the beam of light. The entire lamp module and aim set ring can be spun 360˚ to aim. Once aiming has been set, lock the aimset ring into the housing to maintain aiming. The tilt ring is keyed into the aimset ring to ensure that fixture aiming is never compromised.

©2014 Hydrel
8/20/15
M9700C LED MODULE INSTALLATION

NOTE: HYDREL RESERVES THE RIGHT TO MODIFY SPECIFICATION WITHOUT NOTICE. Any dimension on this sheet is to be assumed as a reference dimension: "Used for information purposes only. It does not govern manufacturing or inspection requirements." (ANSI Y14.5-1973)

9144 Deering Ave., 2nd Floor
Chatsworth, CA 91311
Phone: 866.533.9901
Fax: 866.533.5291
www.hydrel.com

M9700C Housing

INSTALLATION INSTRUCTIONS

Installation should be performed by a qualified electrician in accordance with the National Electrical Code and relevant local codes.

ROUGH-IN SECTION (MRISC)

SUITABLE FOR WET LOCATIONS - IP68

TO INSTALL

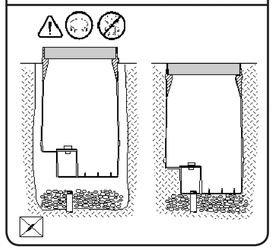
1. Dig hole to appropriate depth allowing for 6" minimum of pea gravel at bottom of rough-in-section for drainage.

   Note: More pea gravel or additional drainage may be required in locations that have poor soil drainage and/or subject to freezing.
2. Install the rough-in-section flush with finish grade of earth or concrete only. No specific orientation for the rough-in is required.

   CAUTION: WHEN INSTALLING IN ORGANIC MULCH, SURROUND ROUGH-IN-SECTION WITH APPROX. SIX INCHES (15cm) OF SAND OR OTHER NON-ORGANIC SUBSTANCE.

   CAUTION: TEMPORARY COVER MUST REMAIN IN HOUSING DURING INSTALLATION.
3. Connect conduit to junction box. Use suitable thread sealing compound. Duct sealant may be added to the conduit to prevent water from traveling from fixture to fixture in the even the conduit is breached.

INSTALLATION DIAGRAM

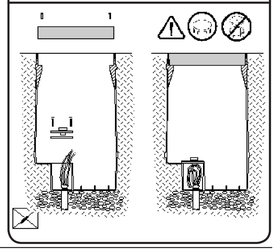


TO PULL ELECTRICAL CONDUCTORS

1. Remove temporary cover with fastener wrench provided.
2. Remove junction box cover and gasket. Pull conductors.
3. Seal conduit entry with suitable compound to prevent moisture penetration from conduit system.
4. Re-install junction box cover and gasket with fasteners provided. CAUTION: DO NOT OVER TIGHTEN (20 in-lbs or 2 N-m).
5. Re-install temporary cover with supplied fasten-ers. CAUTION: DO NOT OVER TIGHTEN (20 in-lbs or 2 N-m).

   CAUTION: LEAVE TEMPORARY COVER IN PLACE UNTIL READY TO INSTALL FINISHING SECTIONS.

INSTALLATION DIAGRAM



©2014 Hydrel
8/20/15
M9700C Housing Installation

NOTE: HYDREL RESERVES THE RIGHT TO MODIFY SPECIFICATION WITHOUT NOTICE. Any dimension on this sheet is to be assumed as a reference dimension: "Used for information purposes only. It does not govern manufacturing or inspection requirements." (ANSI Y14.5-1973)

9144 Deering Ave., 2nd Floor
Chatsworth, CA 91311
Phone: 866.533.9901
Fax: 866.533.5291
www.hydrel.com

INSTALLATION INSTRUCTIONS

M9700C SERIES

Installation should be performed by a qualified electrician in accordance with the National Electrical Code and relevant local codes.

Hydrel's M9700 Series of modular in-grade lights are an assembly of the following components. Each component is shipped and installed separately.

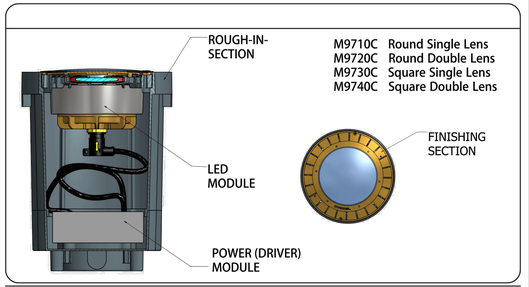
Components (in order of installation):

Rough-In Section — MRIS rough-in housing is installed first during the electrical installation. This houses the remainder of the M9700 Series components. — MRISC97RC -round, MRISC97SC - square

Power Module — MHSL power (ballast/transformer) module or is installed within the MRIS rough-in housing. The sealed power module operates the M9700 Series MACL lamp module via the attached cord and plug. — MHSLC97

Finishing Section — MFS finishing section includes the door trim and rotolock ring for the single lensed M9710 & M9730. The MFS includes the door, lens assembly and aimset ring for the double lensed M9720 and M9740. — MFSC97R - round single lens, MFSC97S - square single lens, MFSC97RD - round double lens, MFSC97SD - square double lens

LED Module — MACLC LED module is installed within the MFS support/tilt ring. The sealed module is connected to the MHSL power module for operation via the waterproof cord and plug. — MACLC



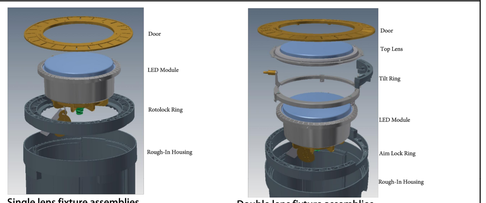
©2005 Hydrel
Rev. 6/14/04
REV 0

NOTE: HYDREL RESERVES THE RIGHT TO MODIFY SPECIFICATION WITHOUT NOTICE. Any dimension on this sheet is to be assumed as a reference dimension: "Used for information purposes only. It does not govern manufacturing or inspection requirements." (ANSI Y14.5-1973)

9144 Deering Ave., 2nd Floor
Chatsworth, CA 91311
Phone: 866.533.9901
Fax: 866.533.5291
www.hydrel.com

M9700C LED INSTALLATION

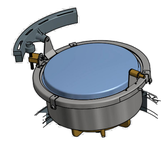
INSTALLATION DIAGRAM FINISHING SECTION INSTALLATION



Single lens fixture assemblies (M9710/M9730)

Double lens fixture assemblies (M9720/M9740)

1. Install rotolock ring or aimlock ring into top of rough-in housing. Do not secure ring to housing.
2. *For single lensed luminaires skip to step 3.* For double lensed luminaires secure the tilt adjustment ring to lamp module while assembly is outside of the housing. Position the module into the tile ring by aligning the module pin with the tilt ring slot and then tighten the three set screws around the rim.
3. Plug driver module into base of lamp module assembly. PUSH CORD DIRECTLY INTO LAMP MODULE - DO NOT TWIST!
4. Place LED module assembly into the rotolock or aimlock ring.



©2014 Hydrel
8/20/15
M9700C LED MODULE INSTALLATION

NOTE: HYDREL RESERVES THE RIGHT TO MODIFY SPECIFICATION WITHOUT NOTICE. Any dimension on this sheet is to be assumed as a reference dimension: "Used for information purposes only. It does not govern manufacturing or inspection requirements." (ANSI Y14.5-1973)

9144 Deering Ave., 2nd Floor
Chatsworth, CA 91311
Phone: 866.533.9901
Fax: 866.533.5291
www.hydrel.com

M9700C DRIVER INSTALLATION

INSTALLATION INSTRUCTIONS

Installation should be performed by a qualified electrician in accordance with the National Electrical Code and relevant local codes.

NOTICE: DO NOT CONNECT LED MODULE WHILE SYSTEM IS ENERGIZED. TURN OFF POWER PRIOR TO LAMPING.

⚠ **CAUTION: TEMPORARY COVER MUST REMAIN IN HOUSING UNTIL READY TO INSTALL INTERNAL COMPONENTS**

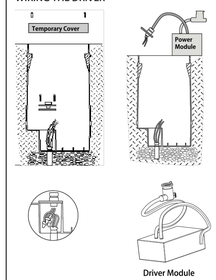
1. Remove temporary cover from rough-in-section.
2. Remove junction box cover & gasket.
3. Loosen junction box cord seal nut. Run pig tailed supply cord from power module through cord seal and junction box cover (provide enough cord for proper splicing within junction box).
4. Tighten junction box seal nut around power cord.
5. Place power module in bottom of rough-in-section.
6. Make electrical connections.

   Note: Use silicone-filled wire nuts or fill junction box with re-enterable potting compound (PC21) prior to replacing lid and gasket. If using potting compound be sure to seal the conduit with plumbers putty before pouring the potting compound to prevent it leaking into the conduit.
7. Re-install junction box cover and gasket. Tighten to ensure proper sealing.

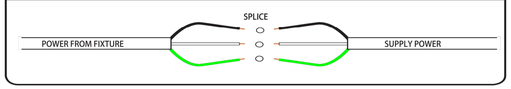
   CAUTION: DO NOT OVER TIGHTEN (20 in-lbs or 2 N-m).

INSTALLATION DIAGRAM

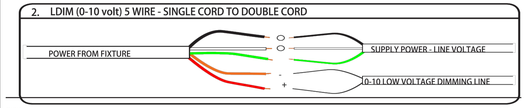
WIRING THE DRIVER



1. STANDARD 3 WIRE ELECTRICAL - SINGLE CORD TO SINGLE CORD



2. LDIM (0-10 volt) 5 WIRE - SINGLE CORD TO DOUBLE CORD



©2014 Hydrel
8/20/15
M9700C LED MODULE INSTALLATION

NOTE: HYDREL RESERVES THE RIGHT TO MODIFY SPECIFICATION WITHOUT NOTICE. Any dimension on this sheet is to be assumed as a reference dimension: "Used for information purposes only. It does not govern manufacturing or inspection requirements." (ANSI Y14.5-1973)

9144 Deering Ave., 2nd Floor
Chatsworth, CA 91311
Phone: 866.533.9901
Fax: 866.533.5291
www.hydrel.com

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER — JEFFREY M. THOMA — ELECTRICAL — STATE OF CALIFORNIA

EXPIRES: 09/30/26
THOMA #22-8049

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DRAWINGS TO ANY AGENCY FOR REVIEW SHALL NOT BE CONSTRUED AS A WAIVER OF RRM'S INTELLECTUAL PROPERTY RIGHTS.

RRM DESIGN GROUP COPYRIGHT 2025
RRM IS A CALIFORNIA CORPORATION

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

RIVERSTONE FIRE STATION

NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

ELECTRICAL DETAILS

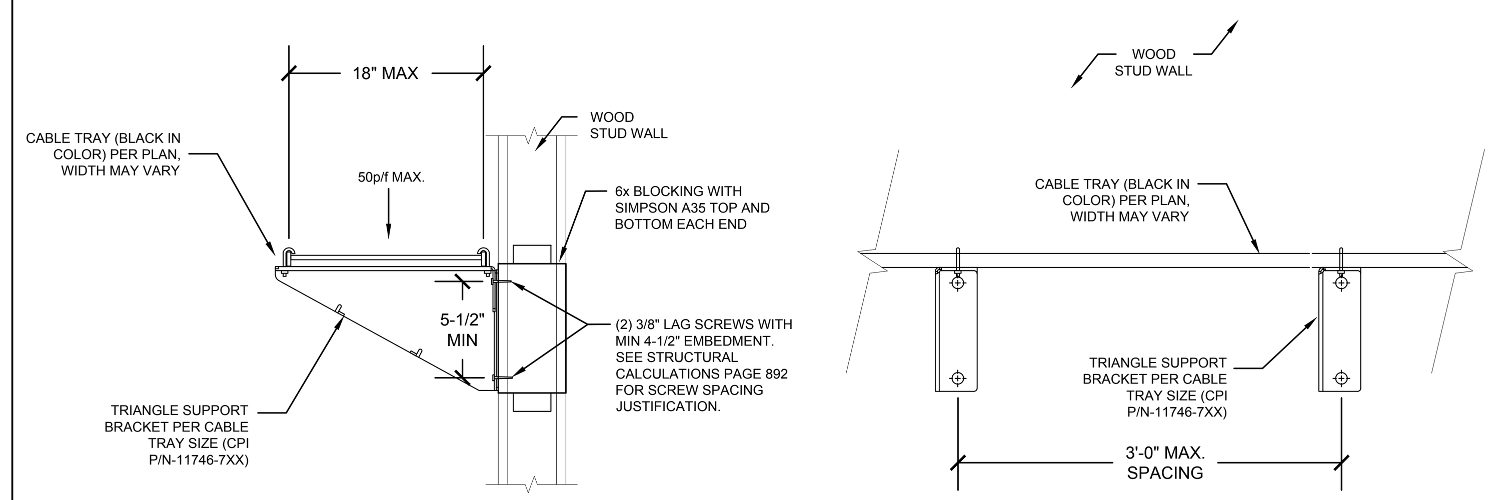
NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: CJ
DRAWN BY: TR
CHECKED BY: CJ, JT
DATE: MAY 2026
Date: 05/04/2026
PROJECT NUMBER: 2471-01-CI21
SHEET: E-206

County of Madera – Certified for Building Permit Issuance
Approved under the 2022 California Building Codes and Ordinances, and valid without signature

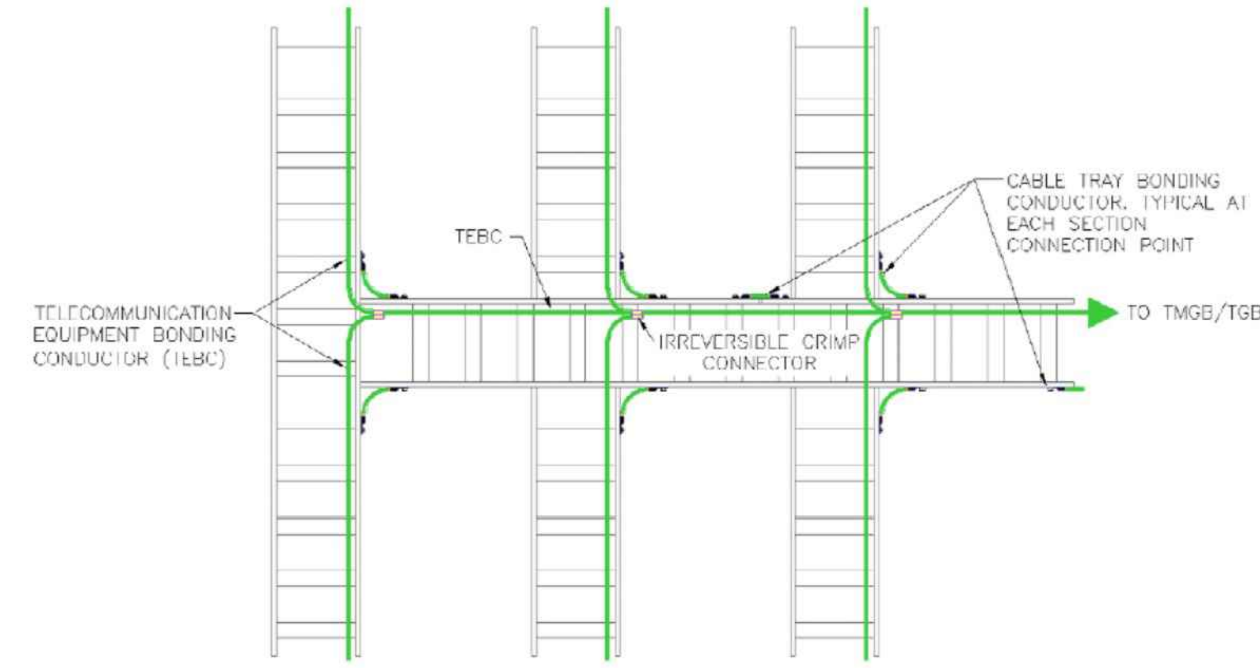
BID DOCUMENTS

Apr 30, 2026 - 7:57am - Chris - K:\ENG\2022\22-604\22-8049_E201+E207_DETAILS.dwg

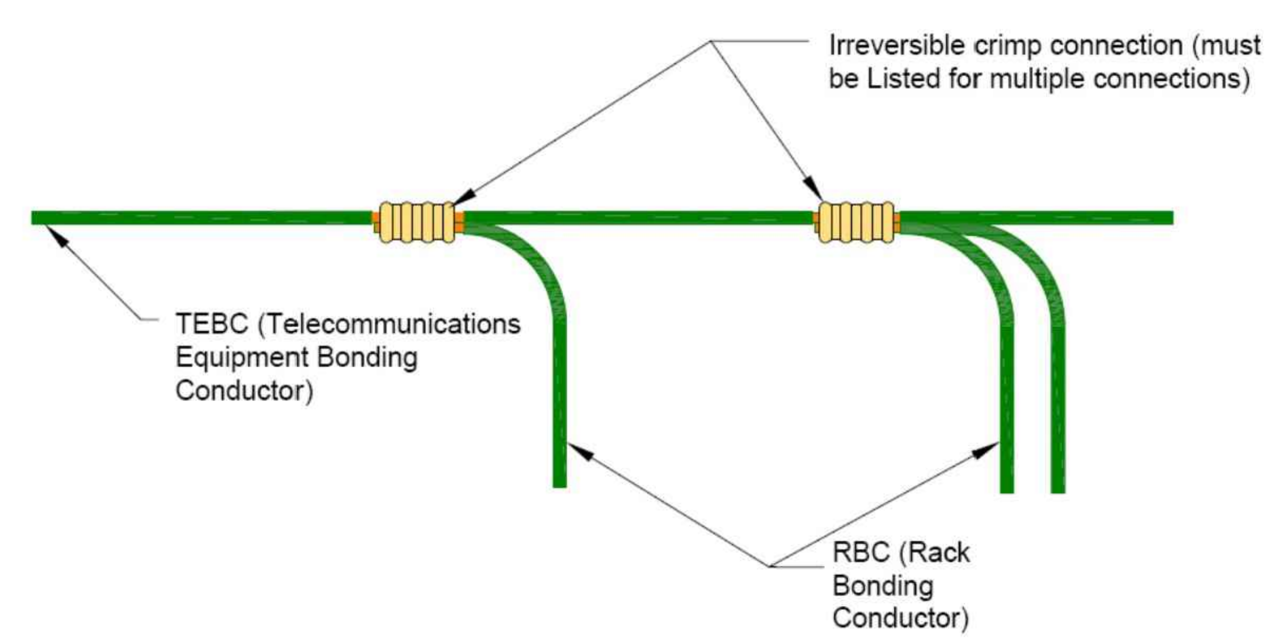


NOTES:
1. CABLE TRAY SHALL BE SUPORTED AT INTERVALS IN ACCORDANCE WITH THE MANUFATURER INSTALLATION INSTRUCTION
2. INSTALL BLOCKING AS REQUIRED.
3. CEC 392.30(A)

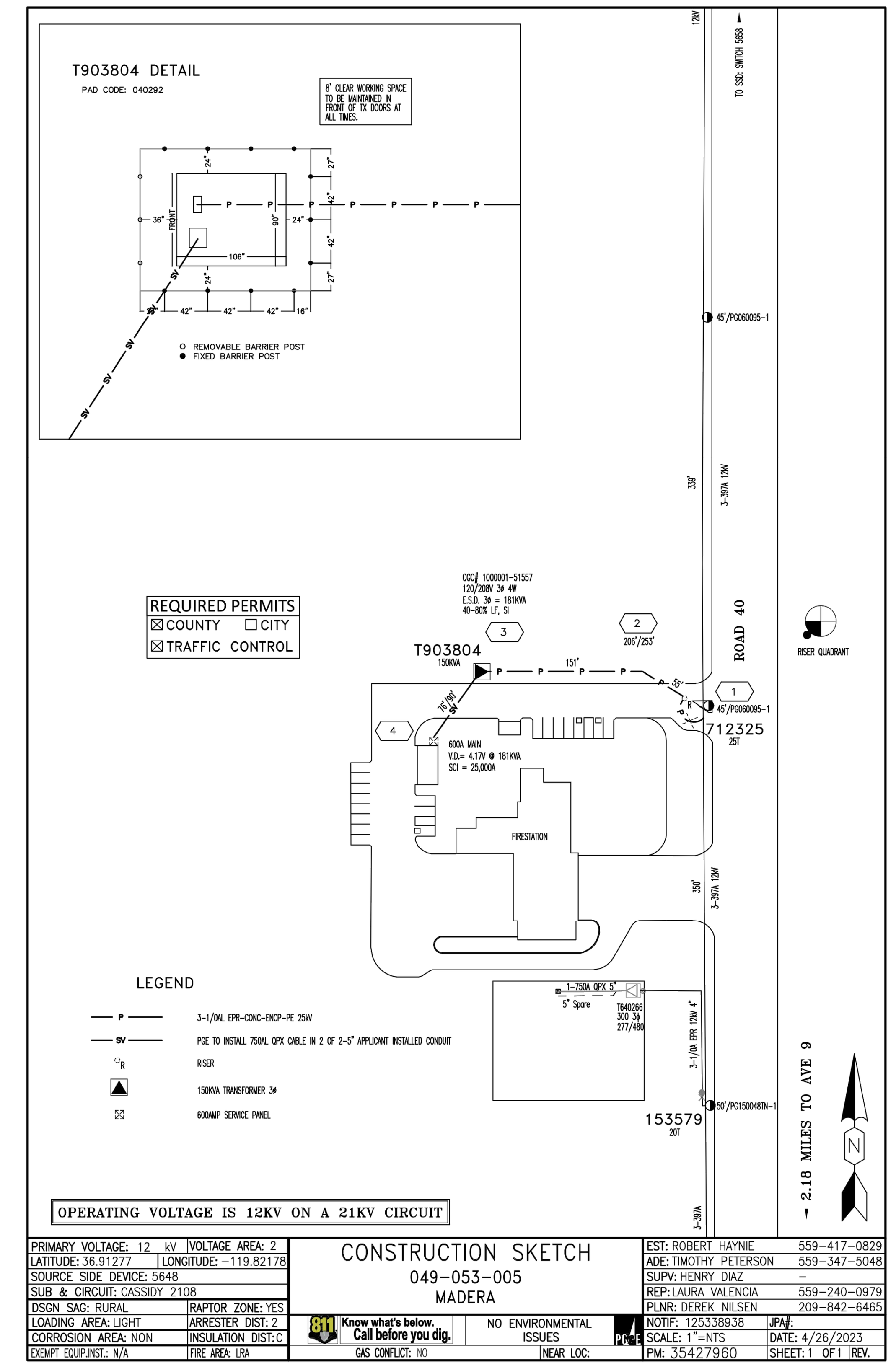
61 WALL MOUNT LADDER TRAY
E-207 NTS



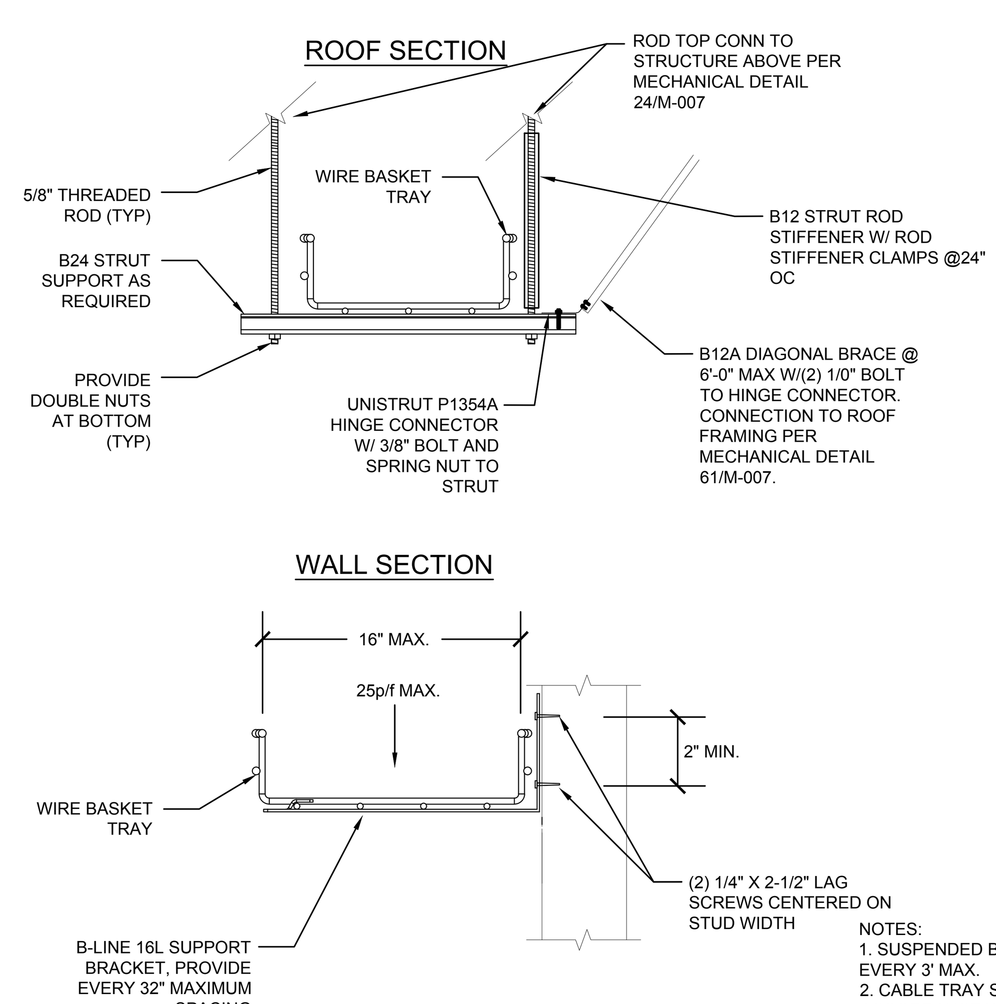
58 BONDING DETAIL AT LADDER TRAY
E-207 NTS



59 BONDING CONNECTION CRIMP DETAIL
E-207 NTS

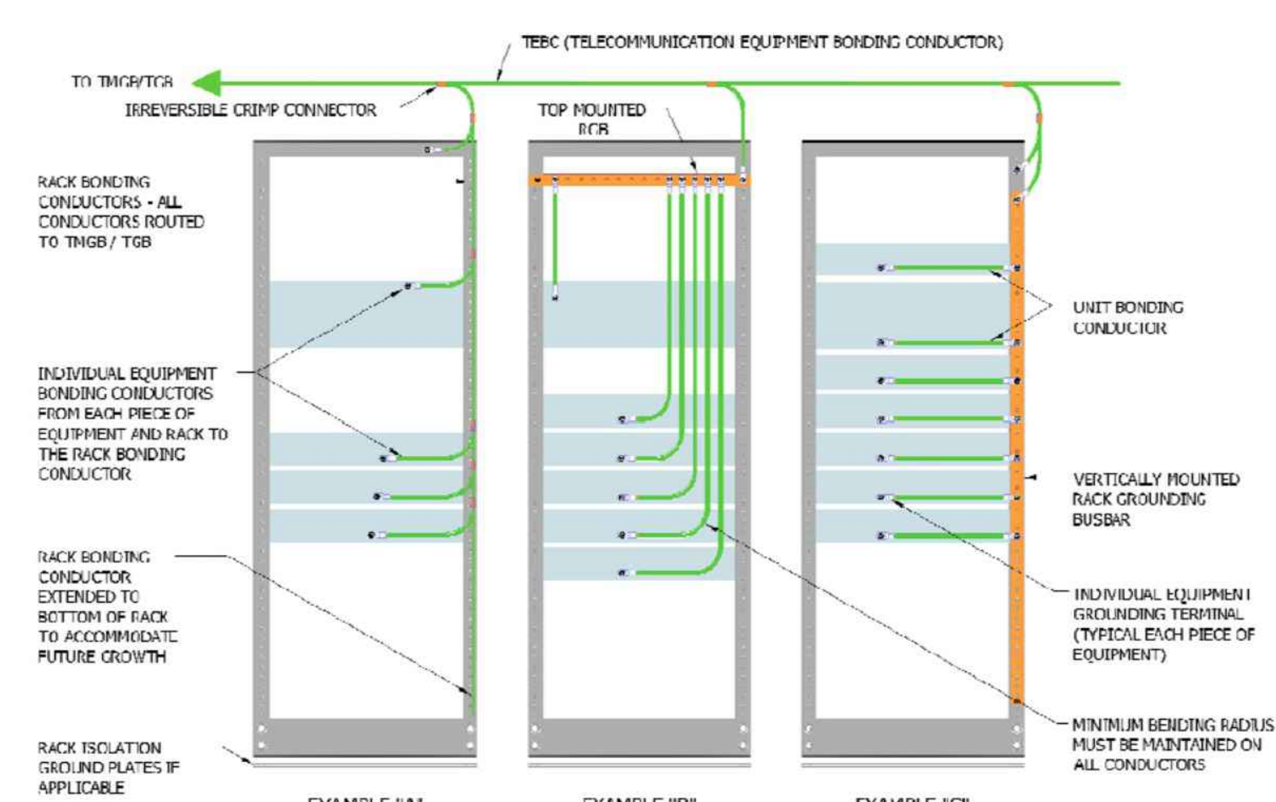


56 PG&E CONSTRUCTION DRAWINGS
E-207 NTS



NOTES:
1. SUSPENDED BASKET TRAY SYSTEM SHALL BE SUPPORTED EVERY 3' MAX.
2. CABLE TRAY SHALL BE SUPORTED AT INTERVALS IN ACCORDANCE WITH THE MANUFATURER INSTALLATION INSTRUCTION
3. INSTALL BLOCKING AS REQUIRED.
4. CEC 392.30(A)

60 WIRE BASKET ANCHORAGE
E-207 NTS



57 BONDING DETAIL AT EQUIPMENT RACK
E-207 NTS

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER JEFFREY M. THOMA No. 20823 ELECTRICAL STATE OF CALIFORNIA
EXPIRES: 09/30/26
THOMA #22-8049

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS FOR PUBLIC AGENCY REVIEW SHALL NOT BE CONSIDERED A WAIVER OF RRM DESIGN GROUP'S RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2025
RRM IS A CALIFORNIA CORPORATION

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

ELECTRICAL DETAILS

NO.	REVISION	DATE
△		
△		
△		
△		
△		
△		

PROJECT MANAGER: CJ
DRAWN BY: TR
CHECKED BY: CJ, JT
DATE: MAY 4 2026
PROJECT NUMBER: 2471-01-CI21
SHEET: E-207

County of Madera – CED Building and Fire Safety Division – Plans Approved under the 2022 California Building Codes – Date 05/04/2026 – Subject to Field Approval, Laws, Codes and Ordinances, not valid without signature

BID DOCUMENTS

Apr 30, 2026 - 7:57am - Chris - K:\ENG\2022\22-8049\22-8049_E201~E207_DETAILS.dwg

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: RIVERSTONE FIRE STATION	Report Page:	(Page 6 of 10)
	Date Prepared:	3/3/2026

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

LOUNGE, BREAKROOM OR WAITING AREA OFFICE RECEPTION	Lounge	Readily Accessible	Dimmer	See Building Level	NA:Garage < 36sf opening	NA:Garage < 36sf opening	No	☐	☐
LOUNGE, BREAKROOM OR WAITING AREA	Lounge	Readily Accessible	Dimmer	NA: Elec. equip. rm	NA:Garage < 36sf opening	NA:Garage < 36sf opening	No	☐	☐
KITCHENETTE OR RESIDENTIAL KITCHEN	Kitchen/ Food Preparation	Readily Accessible	Dimmer	NA: Elec. equip. rm	NA:Garage < 36sf opening	NA:Garage < 36sf opening	No	☐	☐
ALL OTHERS	All Other Space Types	Readily Accessible	Dimmer	See Building Level	NA:Garage < 36sf opening	NA:Garage < 36sf opening	No	☐	☐
EXERCISE/FITNESS AREA	Exercise Center Gymnasium	Readily Accessible	Dimmer	See Building Level	NA:Garage < 36sf opening	NA:Garage < 36sf opening	No	☐	☐
					13				
					Plan Sheet Showing Daylit Zones:				

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

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

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
AUTO REPAIR / MAINTENANCE AREA	Auto Repair	0.55	3,425	1,883.8	No	No
LAUNDRY AREA	Laundry	0.45	502	225.9	No	No
ELECTRICAL, MECHANICAL, TELEPHONE ROOMS	Electrical Mechancial Telephone Room	0.4	165	66	No	No

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: RIVERSTONE FIRE STATION	Report Page:	(Page 3 of 10)
	Date Prepared:	3/3/2026

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
A1	A1	No	NA	38.8	Mfr. Spec	6	No	232.8	☐	☐
A2	A2	No	NA	37.9	Mfr. Spec	2	No	75.8	☐	☐
A3	A3	No	NA	31.3	Mfr. Spec	12	No	375.6	☐	☐
B1	B1	No	NA	100	Mfr. Spec	2	No	200	☐	☐
B2	B2	No	NA	50	Mfr. Spec	4	No	200	☐	☐
B3	B3	No	NA	32	Mfr. Spec	2	No	64	☐	☐
B4	B4	No	NA	26.7	Mfr. Spec	1	No	26.7	☐	☐
C1	C1	No	NA	102	Mfr. Spec	12	No	1,224	☐	☐
D1	D1	No	NA	20	Mfr. Spec	10	No	200	☐	☐
D2	D2	No	NA	15.1	Mfr. Spec	14	No	211.4	☐	☐
D3	D3	No	NA	10.6	Mfr. Spec	2	No	21.2	☐	☐
E1	E1	No	NA	53.8	Mfr. Spec	1	No	53.8	☐	☐
E2	E2	No	NA	66	Mfr. Spec	1	No	66	☐	☐
E3	E3	No	NA	12.5	Mfr. Spec	3	No	37.5	☐	☐
F1	F1	No	NA	19.6	Mfr. Spec	7	No	137.2	☐	☐
F2	F2	No	NA	45.2	Mfr. Spec	2	No	90.4	☐	☐
G1	G1	No	NA	3	Mfr. Spec	9	No	27	☐	☐
G2	G2	No	NA	25.3	Mfr. Spec	4	No	101.2	☐	☐
G3	G3	No	NA	17.5	Mfr. Spec	2	No	35	☐	☐
G5	G5	No	NA	28	Mfr. Spec	1	No	28	☐	☐

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: RIVERSTONE FIRE STATION	Report Page:	(Page 6 of 6)
Project Address:	Date Prepared:	3/3/2026

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Documentation Author Signature:
Jeffrey M. Thoma	
Company:	Signature Date:
Thoma Electric, Inc	
Address:	CEA/ HERS Certification Identification (if applicable):
3562 Empleo Street	E20823
City/State/Zip:	Phone:
San Luis Obispo CA 93401	805-543-3850

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Designer Name:	Responsible Designer Signature:
William Thoma	
Company:	Date Signed:
Thoma Electric, Inc.	2026-03-03
Address:	License:
3852 Empleo Street, Suite C	E10757
City/State/Zip:	Phone:
San Luis Obispo CA 93401	805-543-3850

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: RIVERSTONE FIRE STATION	Report Page:	(Page 7 of 10)
	Date Prepared:	3/3/2026

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

LOCKER ROOM	Locker/Dressing Room	0.45	272	122.4	No	No
GENERAL/COMMERCIAL INDUSTRIAL WORK AREA	General Commercial Industrial Work AreaLow Bay	0.6	522	313.2	No	No
RESTROOM (SHOWER ROOM)	Restroom	0.65	571	371.2	No	No
CORRIDOR AREA	Corridor	0.4	624	249.6	No	No
OFFICE AREA <250 SQFT	Office (<=250 square feet)	0.65	395	256.8	No	No
LOUNGE, BREAKROOM, OR WAITING AREA - OFFICE - RECEPTION AREA	Lounge	0.55	237	130.4	No	No
LOUNGE, BREAKROOM, OR WAITING AREA	Lounge	0.55	630	346.5	No	No
KITCHENETTE OR RESIDENTIAL KITCHEN	Kitchen/ Food Preparation	0.55	239	131.5	No	No
ALL OTHERS	All Other Space Types	0.4	1,005	402	No	No
EXERCISE/FITNESS CENTER AND GYMNASIUM AREAS	Exercise Center Gymnasium	0.5	414	207	No	No
	TOTALS:		9,001	4,706.3	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: RIVERSTONE FIRE STATION	Report Page:	(Page 4 of 10)
	Date Prepared:	3/3/2026

F. INDOOR LIGHTING FIXTURE SCHEDULE

UC3	UC3	No	NA	19.8	Mfr. Spec	5	No	99	☐	☐
UC4	UC4	No	NA	25	Mfr. Spec	2	No	50	☐	☐
UC6	UC6	No	NA	37.5	Mfr. Spec	1	No	37.5	☐	☐
						Total Designed Watts: CONDITIONED SPACES		3,594		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Field Inspector	
		Pass	Fail
NA < 4,000W subject to multilevel	See Area/Space Level Controls	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: RIVERSTONE FIRE STATION	Report Page:	(Page 1 of 10)
Project Address:	Date Prepared:	3/3/2026

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

A. GENERAL INFORMATION

01	Project Location (city)	MADERA	04	Total Conditioned Floor Area (ft²)	9,001
02	Climate Zone	13	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

● Commercial Industrial ● Gymnasium ● Office ● Support Areas ● All Other Occupancies

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Area Category Method	9001	Area Category Method	0
☐ New Lighting System - Parking Garage				
Total Area of Work (ft²)	9001		0	

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: RIVERSTONE FIRE STATION	Report Page:	(Page 5 of 10)
	Date Prepared:	3/3/2026

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
AUTO REPAIR/MAINTENANCE AREA	Auto Repair	Readily Accessible	Dimmer	See Building Level	NA: Garage daylight adaption	NA: Garage daylight adaption	No	☐	☐
LAUNDRY AREA	Laundry	Readily Accessible	Dimmer	See Building Level	NA:Garage < 36sf opening	NA:Garage < 36sf opening	No	☐	☐
ELECTRICAL, MECHANICAL, TELEPHONE ROOMS	Electrical Mechancial Telephone Room	Readily Accessible	Dimmer	See Building Level	NA:Garage < 36sf opening	NA:Garage < 36sf opening	No	☐	☐
LOCKER ROOM	Locker/Dressing Room	Readily Accessible	Dimmer	See Building Level	NA:Garage < 36sf opening	NA:Garage < 36sf opening	No	☐	☐
GENERAL/COMMERCIAL INDUSTRIAL WORK AREA	All Other Space Types	Readily Accessible	Dimmer	See Building Level	NA:Garage < 36sf opening	NA:Garage < 36sf opening	No	☐	☐
RESTROOM	Restroom	Readily Accessible	Dimmer	See Building Level	NA:Garage < 36sf opening	NA:Garage < 36sf opening	No	☐	☐
CORRIDOR AREA	Corridor	Readily Accessible	Dimmer	See Building Level	NA:Garage < 36sf opening	NA:Garage < 36sf opening	No	☐	☐
OFFICE AREA <250SF	Office (<=250 square feet)	Readily Accessible	Dimmer	See Building Level	NA:Garage < 36sf opening	NA:Garage < 36sf opening	No	☐	☐

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: RIVERSTONE FIRE STATION	Report Page:	(Page 2 of 10)
	Date Prepared:	3/3/2026

C. COMPLIANCE RESULTS

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

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)					Compliance Results
	01	02	03	04		05	06	07		08		09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	=	**Total Allowed** (Watts)	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	=	**Total Adjusted** (Watts) *Includes Adjustments		**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)				
Conditioned		4,706.3	0		=	4,706	3,594	0	=	3594		COMPLIES
Unconditioned					=				=			
Controls Compliance (See Table H for Details)												COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)												

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER JEFFREY M. THOMA ELECTRICAL STATE OF CALIFORNIA

EXPIRES: 09/30/26
THOMA #22-8049

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DRAWINGS TO AN AGENCY FOR REVIEW SHALL NOT CONSTITUTE PUBLICATION OF ANY WORK OF WHICH THEY ARE A PART.
RRM DESIGN GROUP COPYRIGHT 2025
RRM IS A CALIFORNIA CORPORATION

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

INTERIOR LIGHTING TITLE 24
ENERGY COMPLIANCE FORMS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

BID DOCUMENTS

PROJECT MANAGER: CJ
DRAWN BY: TR
CHECKED BY: CJ, JT
DATE: MAY 14, 2026 Date: 05/04/2026
PROJECT NUMBER: 2471-01-CI21

County of Madera – Certified for Building Permit Issuance
Approved for Compliance with the 2022 California Building Codes and Ordinances, not valid without signature

SHEET: E-301

Apr 30, 2026 - 7:57am - Chris - K:\ENG\2022\22-8049\22-8049_E301-E303_TITLE 24 ENERGY COMPLIANCE FORMS.dwg

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: RIVERSTONE FIRE STATION	Report Page:	(Page 4 of 8)
	Date Prepared:	3/3/2026

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02	03	04	05	06	07	08	09	10

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

[1] FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)
[2] For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.
[3] Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.
[4] Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: RIVERSTONE FIRE STATION	Report Page:	(Page 5 of 8)
	Date Prepared:	3/3/2026

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector	
				Pass	Fail
AUTOMOTIVE HARDSCAPE	Photocontrol	Provided	Provided	☐	☐
WALKWAY <10' WIDE (SOUTH & PARKING LOT)	Photocontrol	Provided	NA: Each Luminaire <= 40 Watts	☐	☐
PEDESTRIAN HARDSCAPE (ENTRY PLAZA)	Photocontrol	Provided	NA: Each Luminaire <= 40 Watts	☐	☐
PEDESTRIAN HARDSCAPE (PATIOS)	Photocontrol	Provided	NA: Each Luminaire <= 40 Watts	☐	☐

[1] FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.
[2] Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.
[3] Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: RIVERSTONE FIRE STATION	Report Page:	(Page 6 of 8)
	Date Prepared:	3/3/2026

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.
Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

	01					
	"Use it or lose it" Allowance (select all that apply) (select all that apply)					
	☒ General Hardscape Allowance Table I (below)	☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M	

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)
	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
AUTOMOTIVE HARDSCAPE	38046	0.021	799	2138	0.2	427.6	1227
WALKWAY <10' WIDE (SOUTH)	266	0.021	5.6	126	0.2	25.2	31
PEDESTRIAN HARDSCAPE (ENTRY PLAZA)	3850	0.021	80.9	6	0.2	1.2	82
PEDESTRIAN HARDSCAPE (PATIOS)	2552	0.021	53.6	424	0.2	84.8	138
WALKWAY <10' WIDE (PARKING LOT)	1943	0.021	40.8	714	0.2	142.8	184
						Initial Wattage Allowance for Entire Site (Watts):	250
						Instances of Initial Wattage Allowance (LZ 0 only)[1]	
						Total General Hardscape Allowance (Watts):	1911

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.		
Project Name: RIVERSTONE FIRE STATION	Report Page:	(Page 1 of 8)
Project Address:	Date Prepared:	3/3/2026

A. GENERAL INFORMATION

01	Project Location (city)	MADERA	04 Total Illuminated Hardscape Area (ft²)	46657
02	Climate Zone	13		
03	Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ):			
☐ LZ-0: Very Low - Undeveloped Parkland	☐ LZ-2: Moderate - Urban Clusters	☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval		
☐ LZ-1: Low - Rural Areas	☒ LZ-3: Moderately High - Urban Areas			
05	Occupancy Types within Project			

● Commercial Industrial ● Gymnasium ● Office ● Support Areas ● All Other Occupancies

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.

My Project Consists of:

01	02		
☒ New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6		
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	○ Yes	○ No
03	04	05	
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method	
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%			

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

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

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: RIVERSTONE FIRE STATION	Report Page:	(Page 2 of 8)
	Date Prepared:	3/3/2026

C. COMPLIANCE RESULTS

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

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv												Compliance Results			
01		02		03		04		05		06		07		08	09
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
1,911	+	---	+	---	+	---	+	---	OR	---	=	1,911	≥	1,372	COMPLIES

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

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTO-E
Project Name: RIVERSTONE FIRE STATION	Report Page:	(Page 3 of 8)
	Date Prepared:	3/3/2026

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total Number Luminaires [2]	Luminaire Status[3]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)[4]	Field Inspector	
										Pass	Fail
S1	S1	☐ Linear	49	Mfr. Spec	13	New	☐	637	NA: < 6200 lumens	☐	☐
S11	S11	☐ Linear	11	Mfr. Spec	3	New	☐	33	NA: < 6200 lumens	☐	☐
S1A	S1A	☐ Linear	45	Mfr. Spec	1	New	☐	45	NA: < 6200 lumens	☐	☐
S2	S2	☐ Linear	16	Mfr. Spec	16	New	☐	256	NA: < 6200 lumens	☐	☐
S3	S3	☐ Linear	36	Mfr. Spec	3	New	☐	108	NA: < 6200 lumens	☐	☐
S4	S4	☐ Linear	13	Mfr. Spec	3	New	☐	39	NA: < 6200 lumens	☐	☐
S5	S5	☐ Linear	12.8	Mfr. Spec	8	New	☐	102.4	NA: < 6200 lumens	☐	☐
S6	S6	☐ Linear	34.7	Mfr. Spec	4	New	☐	138.8	NA: < 6200 lumens	☐	☐
S7	S7	☐ Linear	12.8	Mfr. Spec	1	New	☐	12.8	NA: < 6200 lumens	☐	☐
							Total Design Watts:	1372			

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: RIVERSTONE FIRE STATION	Report Page:	(Page 8 of 10)
	Date Prepared:	3/3/2026

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

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

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

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

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: RIVERSTONE FIRE STATION	Report Page:	(Page 9 of 10)
	Date Prepared:	3/3/2026

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: RIVERSTONE FIRE STATION	Report Page:	(Page 10 of 10)
Project Address:	Date Prepared:	3/3/2026

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Jeffrey M. Thoma	Documentation Author Signature:
Company: Thoma Electric, Inc	Signature Date:
Address: 3562 Empleo Street	CEA/ HERS Certification Identification (if applicable): E20823
City/State/Zip: San Luis Obispo CA 93401	Phone: 805-543-3850

RESPONSIBLE PERSON'S DECLARATION STATEMENT

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

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

Responsible Designer Name: William Thoma	Responsible Designer Signature:
Company: Thoma Electric, Inc.	Date Signed: 2026-03-03
Address: 3852 Empleo Street, Suite C	License: E10757
City/State/Zip: San Luis Obispo CA 93401	Phone: 805-543-3850

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401

REGISTERED PROFESSIONAL ENGINEER — JEFFREY M. THOMA — ELECTRICAL — STATE OF CALIFORNIA
EXPIRES: 09/30/26
THOMA #22-8049

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS TO AGENCY REVIEW SHALL NOT CONSTITUTE A WAIVER OF RRM'S COPYRIGHT.
RRM DESIGN GROUP COPYRIGHT 2025
RRM IS A CALIFORNIA CORPORATION

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40

EXTERIOR LIGHTING LIGHTING
ENERGY COMPLIANCE FORMS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER: CJ
DRAWN BY: TR
CHECKED BY: CJ, JT
DATE: MAR 3, 2026 (Date: 05/04/2026)
PROJECT NUMBER: 2471-01-CI21

Approved for Permit Issuance
County of Madera – CBC Building and Fire Safety Division
Approved for the 2022 California Building Code

SHEET: E-302

BID DOCUMENTS

Apr 30, 2026 - 7:57am - Chris - K:\ENG\2022\22-R04922-R049_E301-E303_TITLE 24\ ENERGY COMPLIANCE FORMS.dwg

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: RIVERSTONE FIRE STATION	**Report Page:**	**(Page 4 of 6)**
	Date Prepared:	3/3/2026

H. VOLTAGE DROP

Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method				Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
							Pass	Fail
MSB	☒	Voltage drop less than 5%	☐	Permitted by CA Elec Code (Exception to 130.5(c))*	In construction documents	E-004, Panel Schedules	☐	☐

** NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

[1] FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(d)/ 160.6(d).. Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.

01	02	03	04	05	06	07	
Room name or Description	Location/ Type of Controlled Receptacles[1]	Shut-Off Controls	Demand Responsive Controls	Permanent Durable Marking Will be Used	Location of Requirements in Construction Documents	Field Inspector	
						Pass	Fail
	50 % are controlled receptacle (hotel/motel room)	Auto Time-Switch with applicable overrides	NA: Building does not require demand responsive lighting controls per 110.12(c)	☒	E-111, Power Floor Plan	☐	☐

** NOTES: If "Other*" is selected under Shut-Off Controls above, please indicate how compliance has been achieved in the space provided below.*

[1] FOOTNOTES: Receptacles dedicated to refrigerators and water dispensers in kitchens, located a minimum of 6ft above the floor specifically for clocks, network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms, circuits rated more than 20 Amps, or connected to a UPS that are intended to be in continuous use and are marked to differentiate them from other receptacles or circuits are excepted from the requirements. .

J. ELECTRIC READY BUILDINGS

This section does not apply to this project.

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: RIVERSTONE FIRE STATION	**Report Page:**	**(Page 5 of 6)**
	Date Prepared:	3/3/2026

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-ELC-E - Must be submitted for all buildings

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: RIVERSTONE FIRE STATION	**Report Page:**	**(Page 1 of 6)**
Project Address:	**Date Prepared:**	3/3/2026

This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2 (b)4bvii

A. GENERAL INFORMATION

01	Project Location (city)	MADERA	02	Climate Zone	13
			03	Occupancy Types Within Project:	All Other OccupanciesCommercial IndustrialGymnasiumOfficeSupport Areas

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/ Description	Scope of Work[1]	Rating[2] (kVA)	Utility Provided Metering System Exception to 130.5(a)/ 160.6(a)[3]	System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
MSB	New electrical service equipment and meter	216	☐	☐	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/ 160.3, 130.1/ 160.5, and 130.3/ 160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	☐

[1] FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.
[2] If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.
[3] Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: RIVERSTONE FIRE STATION	**Report Page:**	**(Page 2 of 6)**
	Date Prepared:	3/3/2026

C. COMPLIANCE RESULTS

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

01		02		03		04	05	06
Service Electrical Metering 130.5(a)/ 160.6(a) (See Table F)	AND	Separation for Monitoring 130.5(b)/ 160.6(b) (See Table G)	AND	Voltage Drop 130.5(c)/ 160.6(c) (See Table H)	AND	Controlled Receptacles 130.5(d)/ 160.6(d) (See Table I)	Electric Ready 160.9 (See Table J)	**Compliance Results**
Yes	AND	Yes	AND	Yes	AND	Yes		COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

F. SERVICE ELECTRICAL METERING

This table includes new or replacement electrical service systems OR equipment to demonstrate compliance with 130.5(a) / 160.6(a). For multifamily occupancies, submetered systems that provide power to common use areas must meet the following metering requirements. Submetered systems providing power to dwelling units do not.

01	02	03				04	05	
Electrical Service Designation/ Description	Rating[1] (kVA)	Required Metering Capabilities per Table 130.5-A				Location of Requirements in Construction Documents	Field Inspector	
		Instantaneous Demand (kW)	Historical Peak Demand (kW)	Tracking kWh for user-defined period	kWh per rate period		Pass	Fail
MSB	216	☒	☐	☒	☐	E-005, Electrical Single Line Diagram	☐	☐

[1] FOOTNOTES: if common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: RIVERSTONE FIRE STATION	**Report Page:**	**(Page 3 of 6)**
	Date Prepared:	3/3/2026

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(b)/ 160.6(b). Any load types that are not included in the service do not need to be shown. For multifamily occupancies, submetered systems that provide power to dwelling units do not need to meet these separation requirements and therefore load types on those submetered systems also do not need to be shown.

01	02	03	04	05	
Load Type per Table 130.5-B[1]	Minimum Required Separation of Load per Table 130.5-B	Compliance Method[2]	Location of Requirements in Construction Documents	Field Inspector	
				Pass	Fail
MSB					
Lighting including exit, egress and exterior	All lighting in aggregate	NA: Add/Alt to feeders and branch circuits only	E-004, Panel Schedules	☐	☐
HVAC systems and components	All HVAC in aggregate	NA: Add/Alt to feeders and branch circuits only	E-004, Panel Schedules	☐	☐
Plug Loads and appliances less than 25kVA	All plug loads in aggregate Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf	NA: Add/Alt to feeders and branch circuits only	E-004, Panel Schedules	☐	☐

** NOTES: If "Other*" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.*

[1] FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.
[2] Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type.
Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type.
Method 3: Branch circuits serve load types individually and provisions for adding future branch circuit monitoring.
Method 4: Complete metering system measures and reports loads by type.
See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/ 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2Piii/ 180.2(b)4bviic.

01	02	03	04	05

BID DOCUMENTS

rrm design group
rrmdesign.com | (805) 543-1794
3765 S. Higuera, San Luis Obispo, CA 93401
REGISTERED PROFESSIONAL ENGINEER JEFFREY M. THOMA ELECTRICAL STATE OF CALIFORNIA
EXPIRES: 09/30/26
THOMA #22-8049

THE INCLUDED DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF RRM DESIGN GROUP AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIED PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT THE PRIOR WRITTEN CONSENT OF RRM DESIGN GROUP. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. SUBMITTAL OF THESE DOCUMENTS TO AGENCY REVIEW SHALL NOT CONSTITUTE A WAIVER OF RRM'S INTELLECTUAL PROPERTY RIGHTS.
RRM DESIGN GROUP COPYRIGHT 2025
RRM IS A CALIFORNIA CORPORATION

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
cad@thomaelec.com

RIVERSTONE FIRE STATION
NORTHWEST CORNER OF AVENUE 11 AND ROAD 40
POWER DISTRIBUTION
ENERGY COMPLIANCE FORMS

NO.	REVISION	DATE
1		
2		
3		
4		
5		
6		

PROJECT MANAGER	CJ
DRAWN BY	TR
CHECKED BY	CJ, JT
DATE	MAY 5, 2026
PROJECT NUMBER	2471-01-CI21
SHEET	E-303

County of Madera – Certified Plans Approved Under the 2022 California Building Codes and Ordinances Effective January 1, 2023 Building Division without signature

Apr 30, 2026 - 7:57am - Chris - K:\ENG\2022\22-604\22-8048_E301+E303_TITLE 24 ENERGY COMPLIANCE FORMS.dwg