



TO: Mayor and Councilmembers

SUBMITTED BY: Matthew R. Fore, General Services Director

SUBJECT: Authorization to Advertise Construction Bid for the Replacement of Heating, Ventilation, and Air Conditioning Rooftop Units 11 and 13 at City Hall

RECOMMENDATION:

Authorize Staff to advertise a notice inviting construction bids for the Replacement of Heating, Ventilation, and Air Conditioning Rooftop Units 11 and 13 at City Hall.

BACKGROUND:

City Hall is equipped with a comprehensive heating, ventilation, and air conditioning (HVAC) system, which is comprised of multiple heating and air conditioning units. In May of 2024, Beyond Air, Inc. (Beyond Air), the City's contract HVAC maintenance vendor, noted that two units, Rooftop Units (RTUs) 11 and 13, were failing and in need of replacement.

On May 21, 2024, City Council authorized the City Manager to execute Agreement No. 2024-046 (Agreement) with RRM Design Group (RRM). The purpose of the Agreement is to assist the City to design several improvements to City Hall, including: 1) workspaces; 2) replacement of mechanical and life safety systems; and 3) Americans with Disabilities Act improvements, including installation of an elevator. As part of the Agreement, RRM further evaluated the condition of the units. In February 2025, 3C, a mechanical engineering subcontractor to RRM, verified and confirmed the findings and recommendations of Beyond Air, and thus recommended that the City replace the subject RTUs.

DISCUSSION:

RRM and its subcontractor 3C have developed plans and specifications to replace the RTUs. The plans are in final review by the City Building Division and issuance of a building permit is imminent. Staff is therefore requesting Council authorization to issue a Notice Inviting Construction Bids for the replacement of RTUs 11 and 13. The issued permit plan set is included as Attachment 1.

Staff will return to Council in the future (est. Fall of 2025) to request that Council formally approve the project plans and specifications that are part of the bid documents and to adopt findings pursuant to the California Environmental Quality Act.

GOLETA STRATEGIC PLAN:

City-Wide Initiative: 5. Strengthen Infrastructure

Strategic Goal: 5.4 Protect and maintain our City-owned facilities and critical operational assets.

FISCAL IMPACTS:

There are no fiscal impacts associated with this Council item. Once bids are received, Staff will return to Council with a request to appropriate funds from the Facility and Equipment Reserve to cover the cost of this construction work.

LEGAL REVIEW BY: Isaac Rosen, City Attorney

APPROVED BY: Robert Nisbet, City Manager

ATTACHMENT:

1. Plan Set for the Replacement of Rooftop Units 11 & 13 at City Hall

ATTACHMENT 1

Plan Set for the Replacement of Rooftop Units 11 & 13 at City Hall

ABBREVIATIONS

A/C	AIR CONDITIONING	FOM	FACE OF MASONRY	PVMT	PAVEMENT
ABV	ABOVE	FOS	FACE OF STUD	QTY	QUANTITY
ACOUS	ACOUSTICAL	FRP	FIBERGLASS REINFORCED PANELS	R	RADIUS, RISER
ACT	ACOUSTICAL CEILING TILE	FT	FOOT OR FEET	RB	RUBBER BASE
ADA	AMERICANS WITH DISABILITIES ACT	FTG	FOOTING	RCP	REFLECTED CEILING PLAN
AFCI	ARC FAULT CIRCUIT INTERRUPTER	GA	GAUGE, GAGE	RD	ROOF DRAIN
AFF	ABOVE FINISH FLOOR	GALV	GALVANIZED	REF	REFRIGERATOR
AL	ALUMINUM	GB	GRAB BAR	REINF	REINFORCED
ALT	ALTERNATE	GC	GENERAL CONTRACTOR	REQD	REQUIRED
ARCH	ARCHITECT(URAL)	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	RH	RIGHT HAND
BD	BOARD	GT	GROUT	RM	ROOM
BDRM	BEDROOM	GWB	GYP SUM BOARD	RO	ROUGH OPENING
BET	BETWEEN	GYP	GYP SUM	RTU	ROOF TOP UNIT (MECH)
BIT	BITUMINOUS	HB	HOSE BIBB	S	SOUTH
BLDG	BUILDING	HC	HOLLOW CORE	SAFB	SOUND ATTENUATION FIBER BATT
BLKG	BLOCKING	HDWD	HARDWOOD	SAWP	SELF ADHERING WATERPROOFING
BLW	BELOW	HDWR	HARDWARE	SC	SCUPPER/SOLID CORE
BM	BEAM	HGT	HEIGHT	SCHED	SCHEDULE
BOT	BOTTOM	HM	HOLLOW METAL	SEAL	SEALANT
BUR	BUILT UP ROOF	HORIZ	HORIZONTAL	SECT	SECTION
CB	CATCH BASIN	HVAC	HEATING, VENTILATION, A/C	SF	SQUARE FOOT
CBC	CALIFORNIA BUILDING CODE	ID	INSIDE DIAMETER	SHT	SHEET
CEM	CEMENT	IIC	IMPACT INSULATION CLASS	SHTHG	SHEATHING
CFM	CUBIC FEET PER MINUTE	IN	INCH	SIM	SMILAR
CIP	CAST IN PLACE	INCAND	INCANDESCENT	SM	SHEET METAL
CJ	CONTROL JOINT	INSUL	INSULATION, INSULATED	SPEC	SPECIFICATION
CL	CENTER LINE	INT	INTERIOR	SQ	SQURE
CLG	CEILING	JC	JANITORS CLOSET	SS	SOLID SURFACE
CLO	CLOSE	JT	JOINT	SSTL	STAINLESS STEEL
CLR	CLEAR	LAM	LAMINATE	STC	SOUND TRANSMISSION CLASS
CMU	CONCRETE MASONRY UNIT	LAV	LAVATORY	STD	STANDARD
CO	CLEAN OUT	LBS	POUNDS	STL	STEEL
COL	COLUMN	LEED	LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN	STOR	STORAGE
CONC	CONCRETE	LF	LINEAR FEET	STRUCT	STRUCTURAL
CONST	CONSTRUCTION	LIN	LINEN CLOSET	SUSP	SUSPENDED
CONT	CONTINUOUS	LINO	LINOLEUM	SV	SHEET VINYL
CONTR	CONTRACTOR	LT(G)	LIGHTING	SYM	SYMMETRICAL
CPT	CARPET	LVL	LAMINATED VENEER LUMBER	T	TREAD
CT	CERAMIC TILE	LVT	LUXURY VINYL TILE	T&G	TONGUE & GROOVE
CTR	CENTER	LW	LIGHTWEIGHT	TB	TACKBOARD
DBL	DOUBLE	MAX	MAXIMUM	TEL	TELEPHONE
DF	DRINKING FOUNTAIN	MECH	MEDIUM DENSITY FIBERBOARD	TEMP	TEMPERED
DIA	DIAMETER, DIAPHRAGM	MEMB	MEMBRANE	TER	TERRAZZO
DM	DIMENSION	MEP	MECHANICAL, ELECTRICAL, PLUMBING	THK	THICK
DN	DOWN	MFR	MANUFACTURER	THR	THRESHOLD
DR	DOOR	MN	MINIMUM	TJI	TRUSS JOIST I-JOIST
DS	DOWN SPOUT	MISC	MISCELLANEOUS	TO	TOP OF
DTL	DETAIL	MO	MASONRY OPENING	TOS	TOP OF SLAB
DW	DISHWASHER	MTD	MOUNTED	TOW	TOP OF WALL
DWG	DRAWING	MTL	METAL	TRANS	TRANSFORMER
(E)	EXISTING	N	NORTH	TV	TELEVISION
E	EAST	NIC	NOT IN CONTRACT	TYP	TYPICAL
EA	EACH	NO	NUMBER	UFAS	UNIFORM FEDERAL ACCESSIBILITY STANDARDS
EJ	EXPANSION JOINT	NOM	UNFINISHED	UG	UNDERGROUND
EL	ELEVATION	NTS	NOT TO SCALE	UNFIN	UNFINISHED
ELEV	ELECTRIC	O.P.	OVERFLOW PIPE	UNO	UNLESS NOTED OTHERWISE
ELEC	ELECTRIC	OC	ON CENTER	UV	ULTRAVIOLET
ENCL	ENCLOSURE	OD	OVERFLOW DRAIN	VCT	VINYL COMPOSITION TILE
EQ	EQUAL	OFF	OFFICE	VERT	VERTICAL
EQUIP	EQUIPMENT	OH	OPPOSITE HAND	VIF	VERIFY IN FIELD
EXH	EXHAUST	OPG	OPENING	VTR	VENT TERMINATION PIPE
EXP	EXPANSION	OPP	OPPOSITE	W	WEST
EXT	EXTERIOR	(P)	PROPOSED	W/	WITH
FACP	FIRE ALARM CONTROL PANEL	PERM	PERIMETER	W/D	WASHER DRYER
FAU	FORCED AIR UNIT	PERP	PERPENDICULAR	WC	WATERCLOSET
FAWP	FLUID APPLIED WATERPROOFING	PL	PLATE, PROPERTY LINE	WD	WOOD
FD	FLOOR DRAIN	PLAM	PLASTIC LAMINATE	WDW	WINDOW
FDC	FIRE DEPARTMENT CONNECTION	PLBG	PLUMBING	WH	WATER HEATER
FE	FIRE EXTINGUISHER	PLYWD	PLYWOOD	WI	WROUGHT IRON
FEC	FIRE EXTINGUISHER CABINET	PNL	PANEL	WIN	WINDOW
FF	FINISHED FLOOR ELEVATION	PP	POWER POLE	WP	WATERPROOFING
FG	FINISHED GRADE	PR	PAIR	WR	WEATHER RESISTIVE
FH	FIRE HYDRANT	PRTN	PARTITION	WRB	WATER RESISTIVE BARRIER
FHC	FIRE HOSE CABINET	PSF	POUNDS PER SQUARE FOOT	WSCT	WAINSCOT
FIN	FINISH	PSI	POUNDS PER SQUARE INCH	WT	WEIGHT
FIXT	FIXTURE	PSL	PARALLEL STRAND LUMBER	WWF	WELED WIRE FABRIC
FUR	FLOOR	PT	PRESSURE TREATED	YD	YARD
FLUOR	FLOURESCENT	PTD	PAINTED		
FND	FOUNDATION	PV	PHOTO VOLTAIIC		
FO	FACE OF	PVC	POLYVINYL CHLORIDE		
FOC	FACE OF CONCRETE				
FOF	FACE OF FINISH				
FOIC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR				

GENERAL NOTES

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

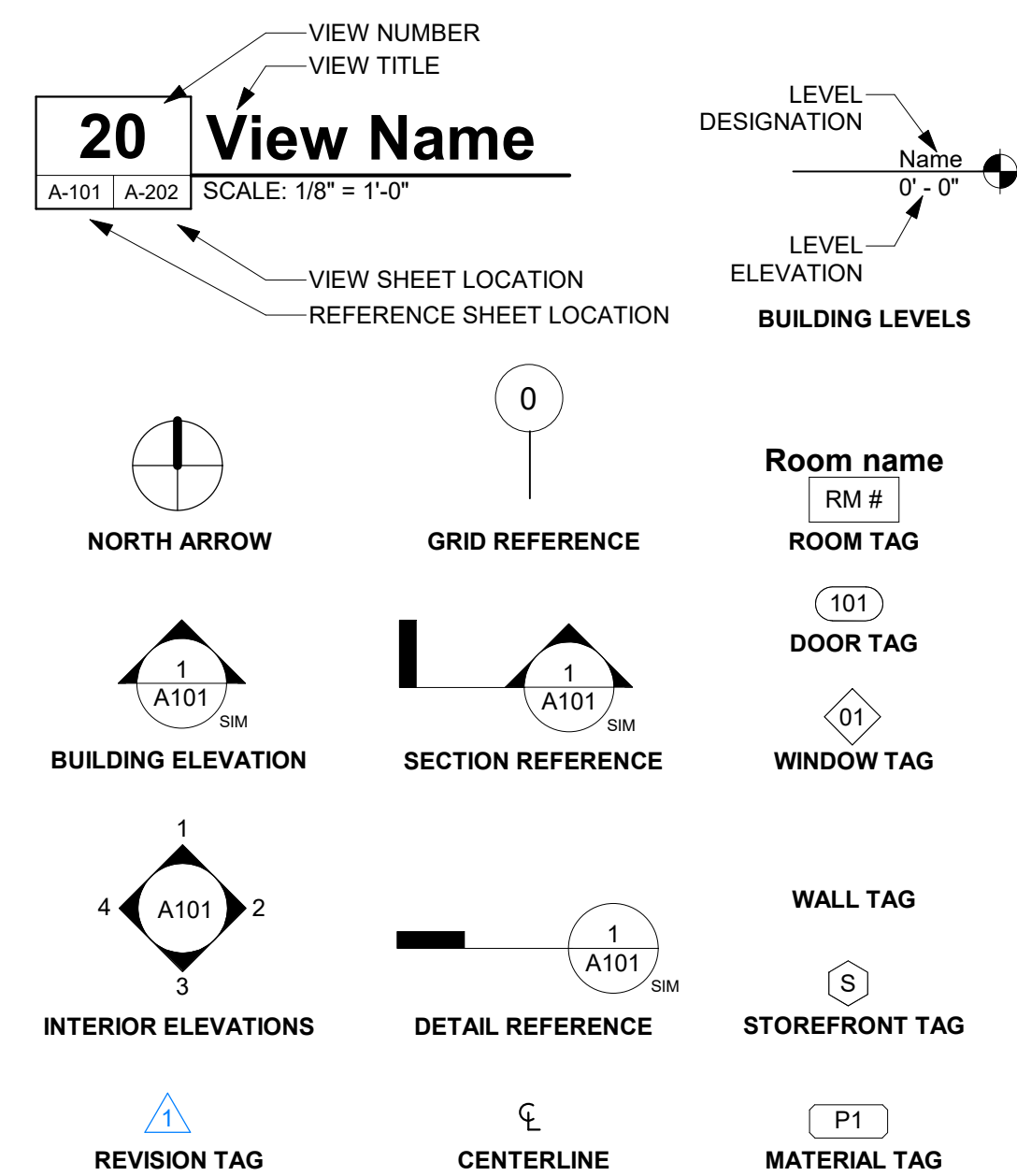
THESE NOTES APPLY TO ALL PORTIONS, PHASES AND SUBCONTRACTORS OF THIS PROJECT.

APPLICABLE CODES ARE STANDARDS:

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

1. ALL WORK DESCRIBED IN THE DRAWINGS SHALL BE VERIFIED FOR DIMENSION, GRADE, EXTENT AND COMPATIBILITY WITH EXISTING SITE CONDITIONS. ANY DISCREPANCIES AND UNEXPECTED CONDITIONS THAT AFFECT OR CHANGE THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY. DO NOT PROCEED WITH THE WORK IN THE AREA OF DISCREPANCIES UNTIL ALL SUCH DISCREPANCIES ARE RESOLVED. IF THE CONTRACTOR CHOOSES TO DO, HE/SHE SHALL BE PRECEDING AT HIS/HER OWN RISK.
2. DIMENSIONS SHOWN SHALL TAKE PRECEDENCE OVER DRAWING SCALE OR PROPORTION. LARGER SCALE DRAWINGS SHALL TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS. ALL DIMENSIONS ARE ROUGH AND TO THE FACE OF FRAMING.
3. CONTRACTOR IS TO BE RESPONSIBLE FOR BEING FAMILIAR WITH THESE DOCUMENTS INCLUDING ALL CONTRACT REQUIREMENTS.
4. CONTRACTOR TO REVIEW CALIFORNIA GREEN BUILDING CODE REQUIREMENTS FOR CONTRACTOR REQUIREMENTS.
5. TEMPORARY FACILITIES: CONTRACTOR SHALL PAY FOR, PROVIDE AND MAINTAIN TEMPORARY FACILITIES FOR PROJECT PROTECTION AND CONSTRUCTION, AND AS REQUIRED BY LOCAL REGULATION AND THESE DOCUMENTS. SUCH FACILITIES INCLUDE, BUT ARE NOT LIMITED TO: TOILETS, LIGHTS, HEATERS, POWER, GAS FANS, WATER, PHONES, FENCES, SIGNS, SHEDS, ETC. REMOVE FROM SITE UPON COMPLETION OF WORK. OBTAIN BUILDING OFFICIAL OR FIRE MARTIAL APPROVAL PRIOR TO USE OF ANY TEMPORARY HEATING DEVICE.
6. CONTRACTOR SHALL PROVIDE FOR PROTECTION AND SAFETY: RESPONSIBLE FOR ALL ITEMS (SIGNS, LIGHTS, FENCES, BRACING, ANCHOR-AGE, FIRE, EXTINGUISHERS, ETC.) NECESSARY FOR THE PROTECTION OF THE PUBLIC WORKERS, MATERIALS, CONSTRUCTION AND PROPERTY PER LOCAL, STATE, AND FEDERAL REQUIREMENTS (INCLUDING EARTHQUAKES, FIRES, SPILLS, ACCIDENTS, EROSION, MUD, DUST ETC.).
7. A SEPARATE OFFICER, ACCESS EASEMENT/AGREEMENT, AND/OR RECIPROCAL ACCESS EASEMENT/AGREEMENT MAY BE REQUIRED TO ENSURE THAT THE PROPOSED PRIVATE ACCESS ROAD OPEN TO THROUGH TRAFFIC AND EMERGENCY VEHICLES PRIOR TO FINAL OF BUILDING PERMIT.
8. SHOP WELDS MUST BE PERFORMED BY A LICENSED FABRICATOR'S SHOP.
9. OSHA PERMITS REQUIRED FOR VERTICAL CUTS 5' OR GREATER.

SYMBOLS



DEFERRED SUBMITTALS

1. FIRE ALARM SYSTEM

SEPARATE SUBMITTALS

1. NONE.

PROJECT DIRECTORY

OWNER CITY OF GOLETA
ADDRESS: 130 CREMONA DRIVE, SUITE B
GOLETA CA 93117
CONTACT: PATRICK ZUROSKE
EMAIL: pzuroske@cityofgoleta.org
P:(805) 690-5128

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CONTACT: CHARLES DELLINGER
EMAIL: caddellinger@rrmdesign.com
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CONTACT: MICHAEL DOREMUS
EMAIL: msdoremus@rrmdesign.com
P:(805) 543-1794

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ADDRESS: 1500 PALM STREET
SAN LUIS OBISPO, CA 93401
CONTACT: DENVER STANGER
EMAIL: dstanger@3ceeng.com
P:(805) 540-3363

ELECTRICAL ENGINEER THOMA ELECTRIC, INC.
ADDRESS: 3562 EMPLEO STREET, SUITE C
SAN LUIS OBISPO, CA 93401
CONTACT: CHRIS JOSE
EMAIL: cjosae@thomaselec.com
P:(805) 543-3850

PROJECT INFORMATION

PROJECT SCOPE

1. REMOVAL OF TWO (2) EXISTING HVAC ROOFTOP HVAC UNITS, DEMOLITION OF SUPPORT CURBS, AND PARTIAL DEMOLITION OF DUCTWORK.
2. INSTALLATION OF TWO (2) NEW ROOFTOP HVAC UNITS AND CONSTRUCTION OF NEW SUPPORT CURBS, LIMITED ROOFING AND FLASHING, AND NEW DUCTWORK.
3. CONSTRUCTION OF NEW STRUCTURAL FRAMING AND CONNECTIONS.
4. ALL OTHER WORK INDICATED IN THE CONTRACT DOCUMENTS.

DESCRIPTION

OCCUPANCY: B
CONSTRUCTION TYPE: V-B
FIRE SPRINKLERED: NO
BUILDING HEIGHT: 29' - 0"
NUMBER OF STORIES: 2
BUILDING AREA: 37,803 SF

ENERGY COMPLIANCE EC-000 ENERGY COMPLIANCE DOCUMENTATION

ELECTRICAL

E-001 GENERAL NOTES, LEGEND, AND ABBREVIATIONS
E-011 SINGLE LINE DIAGRAM
E-101 ELECTRICAL ROOF PLAN
E-201 ELECTRICAL FIRST FLOOR PLAN
E-202 ELECTRICAL SECOND FLOOR PLAN
SHEET COUNT: 17

SUPPORTING DOCUMENTS

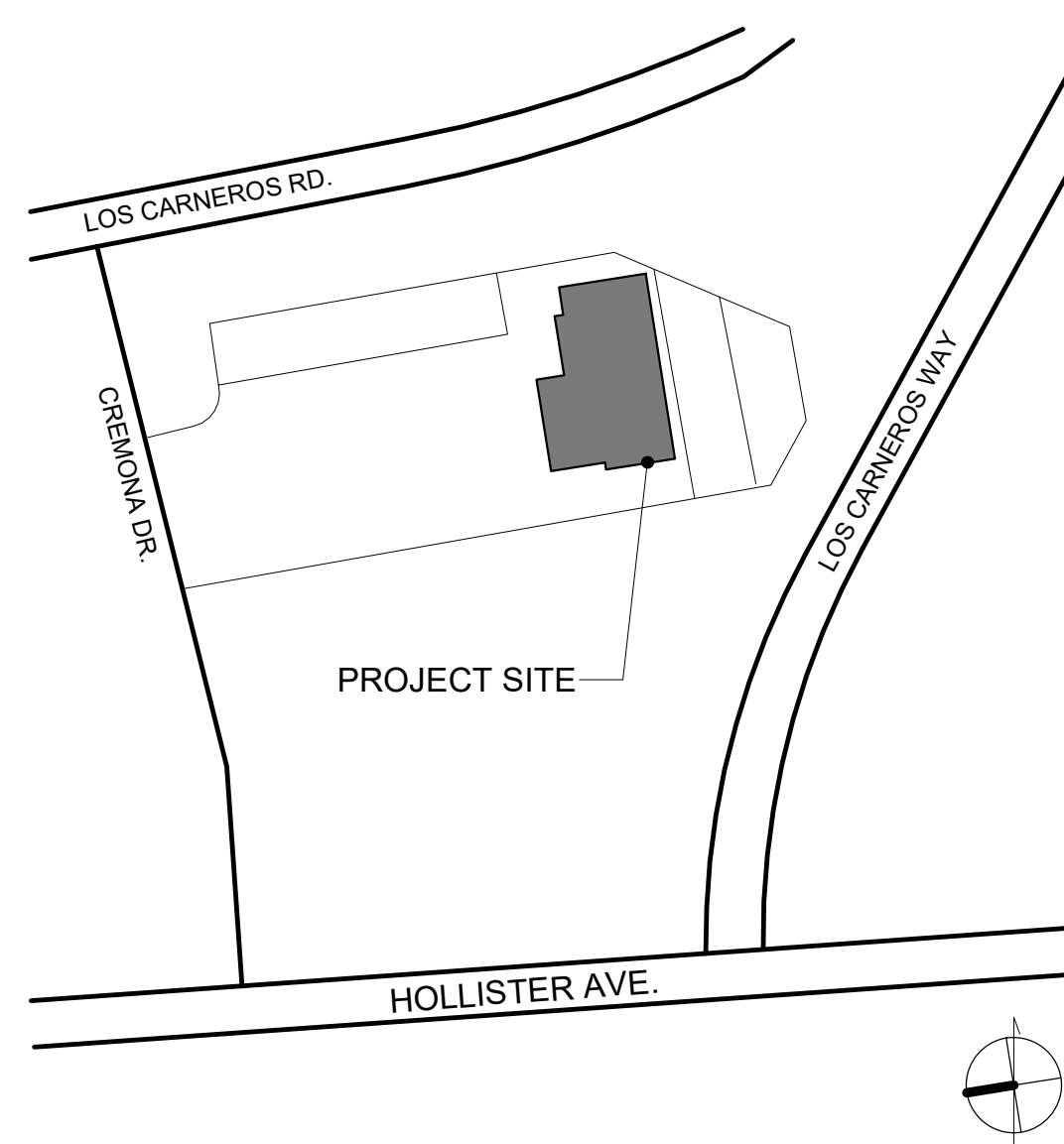
STRUCTURAL CALCULATIONS

PREPARED BY: RRM DESIGN GROUP
DATE PREPARED: JULY 15, 2025
JOB NUMBER: 1806-03-PS24

ENERGY COMPLIANCE

PREPARED BY: 3C ENGINEERING
DATE PREPARED: MAY 9, 2025
JOB NUMBER: 1806-03-PS24

VICINITY MAP



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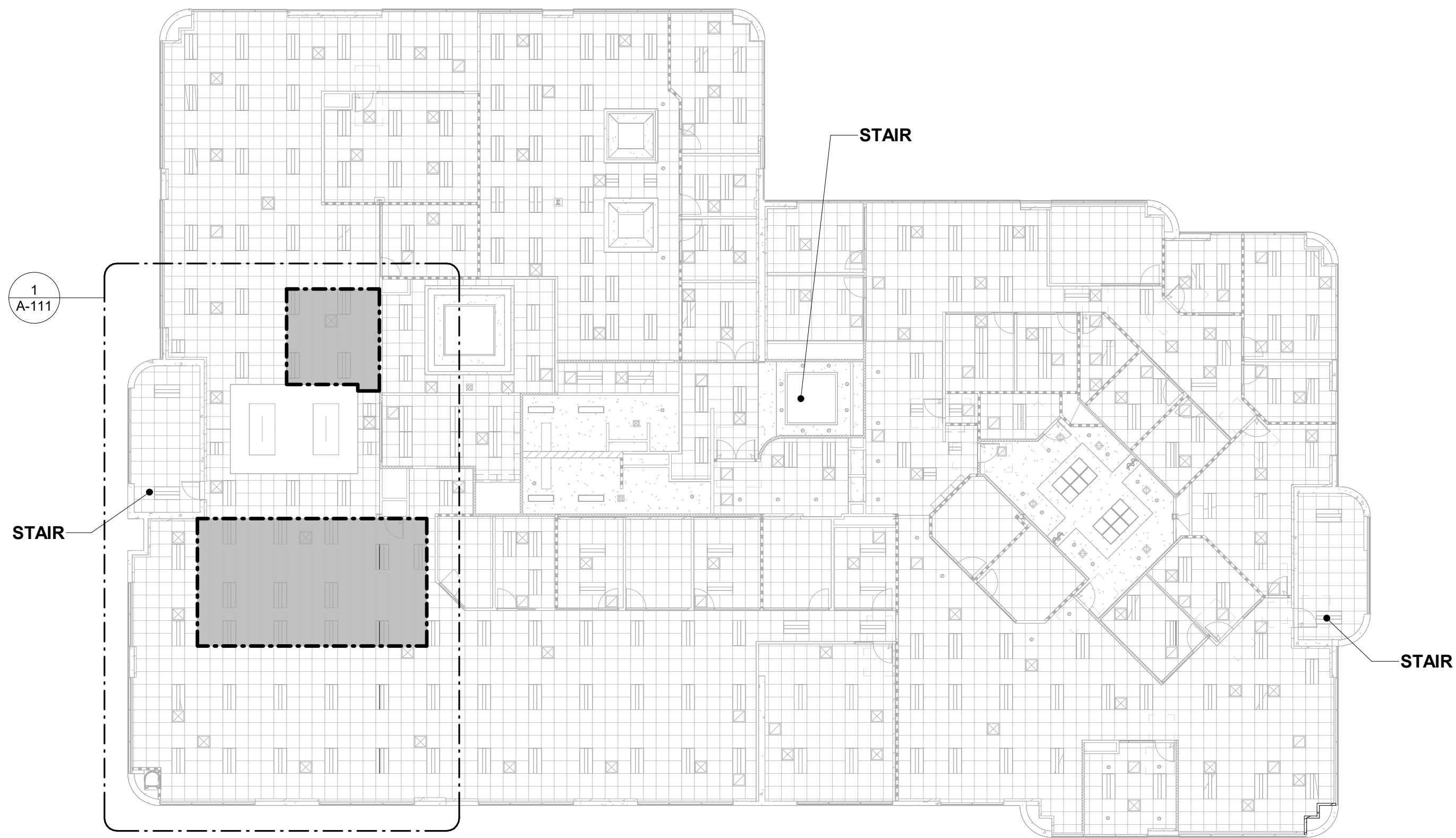
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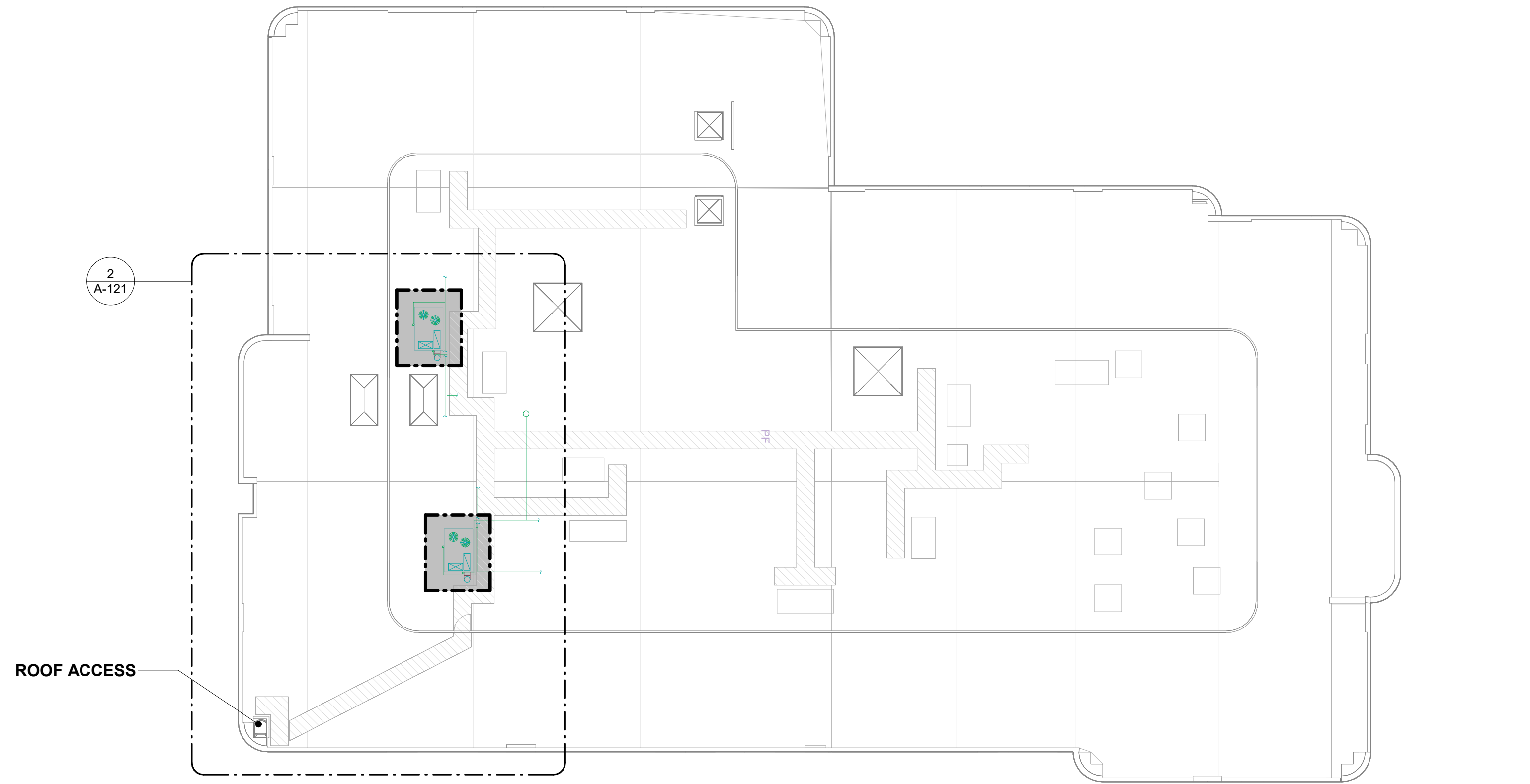
GOLETA CITY HALL - HVAC REPLACEMENT
130 CREMONA DRIVE, GOLETA CA 93117

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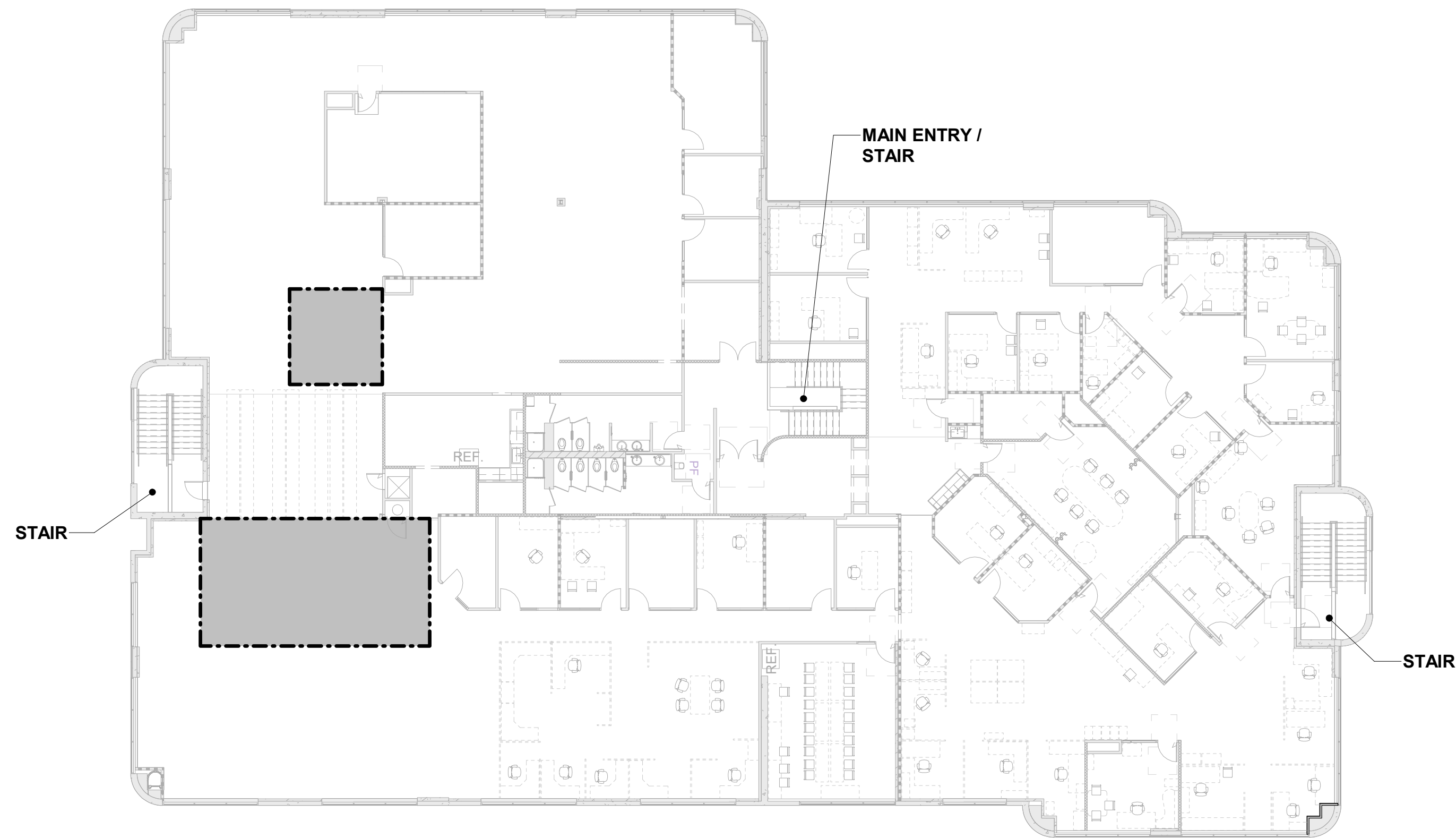
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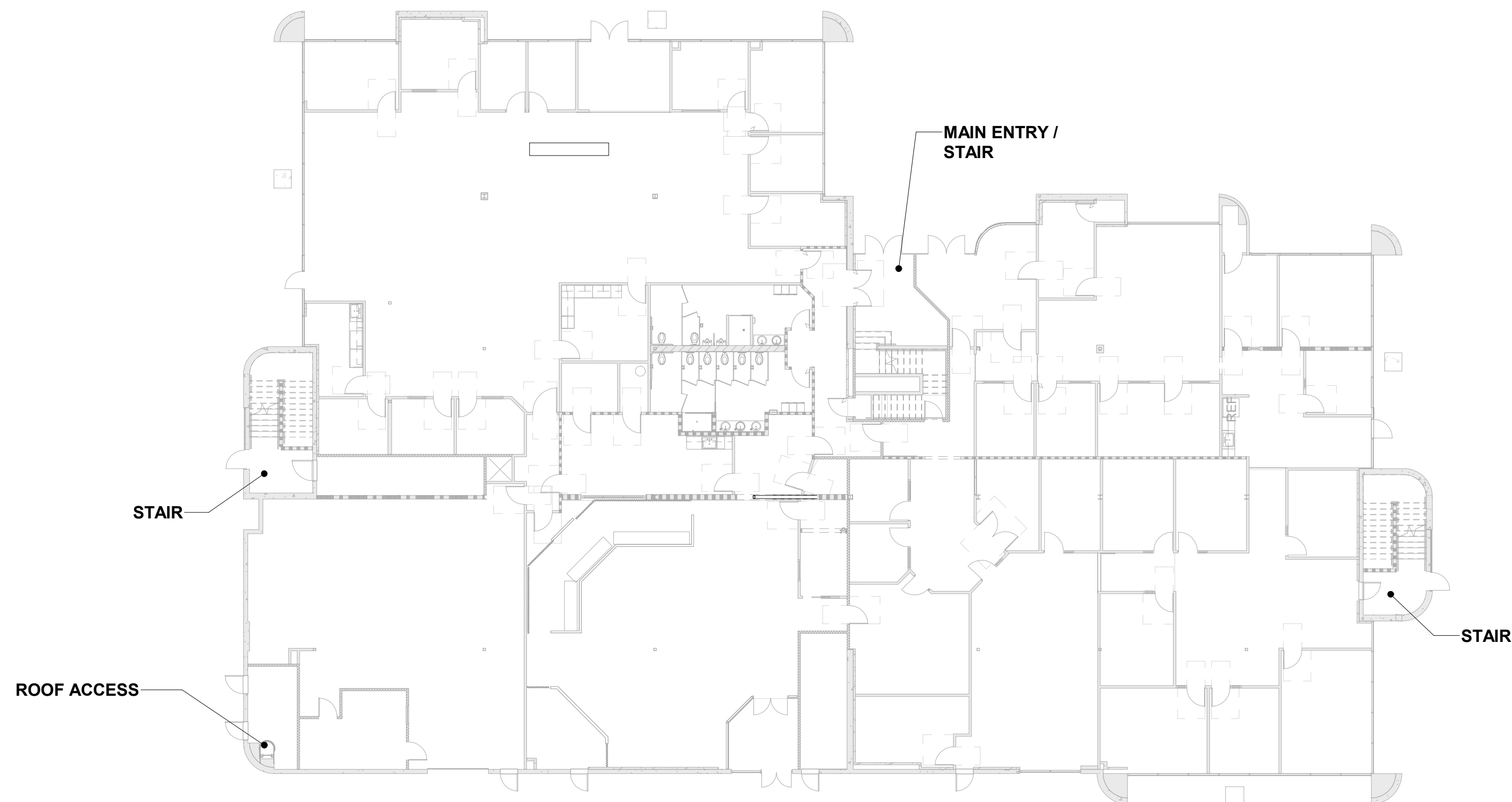
4 SECOND FLOOR REFLECTED CEILING PLAN
A-101 SCALE: 1/16" = 1'-0"



3 ROOF PLAN
A-101 SCALE: 1/16" = 1'-0"



2 SECOND FLOOR PLAN
A-101 SCALE: 1/16" = 1'-0"



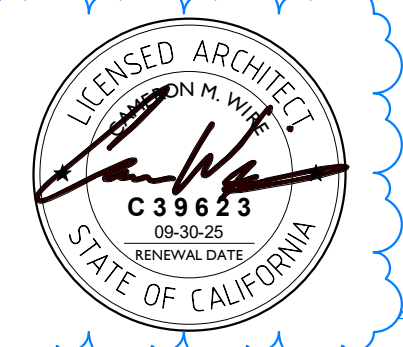
1 GROUND FLOOR PLAN (FOR REFERENCE ONLY)
A-101 SCALE: 1/16" = 1'-0"

LEGEND

AREA OF WORK, SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.



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GOLETA CITY HALL - HVAC REPLACEMENT
130 CREMONA DRIVE, GOLETA CA 93117
OVERALL PLANS

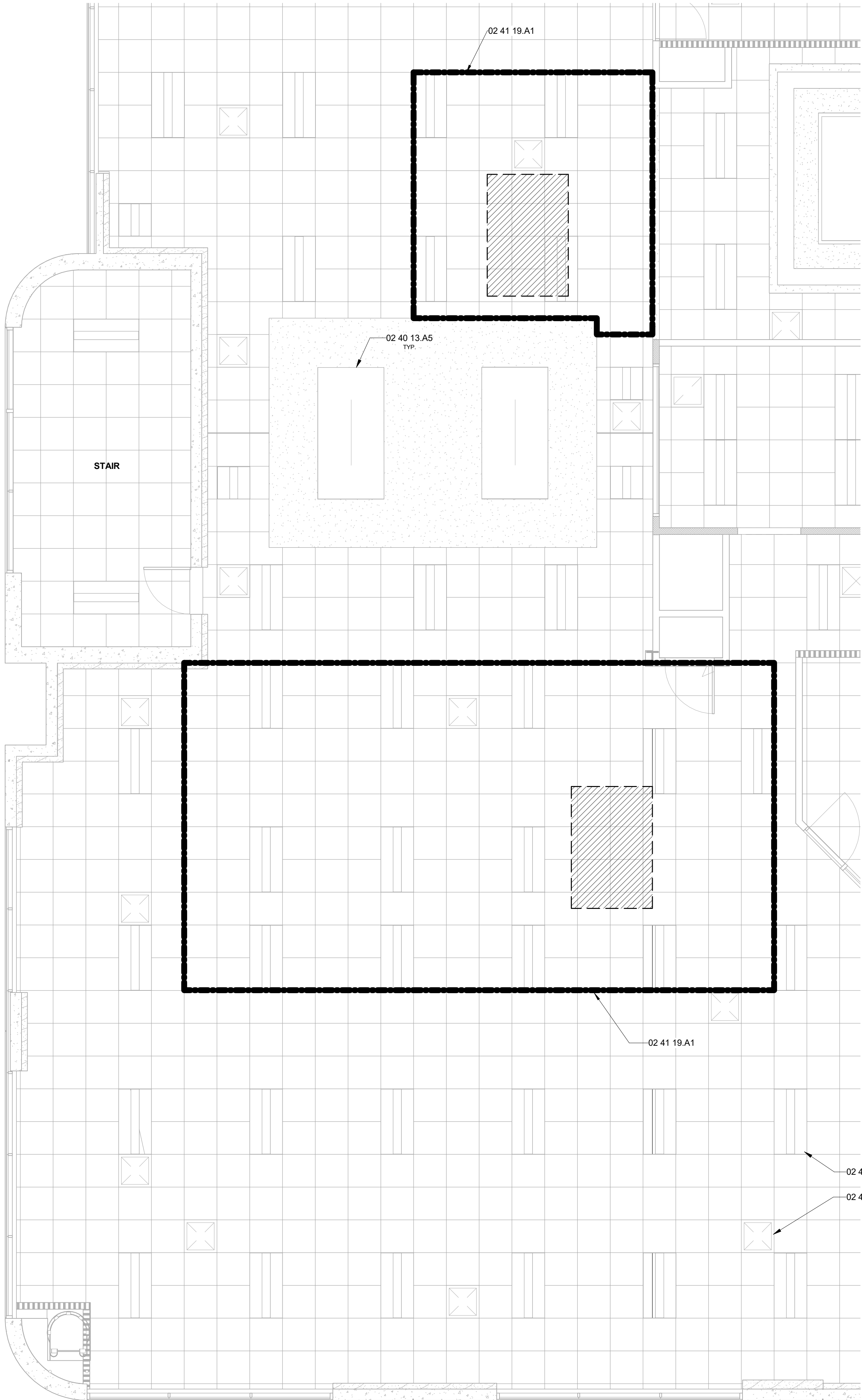
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AUGUST 25, 2025
PROJECT NUMBER
1806-03-PS24
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A-101

PLAN CHECK RESPONSE 1

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NOTE:
THE INSTALLATION OF THE NEW GLU-LAM BEAM ON THE SECOND FLOOR MAY REQUIRE SPECIAL MEANS AND METHODS DUE TO LIMITED ACCESS. CONTRACTORS SHALL ACCOUNT FOR ALL NECESSARY EQUIPMENT, LABOR, AND COORDINATION EFFORTS NECESSARY TO TRANSPORT AND INSTALL THE BEAM IN ITS FINAL LOCATION. THIS MAY INCLUDE EXPLORATION OF ALTERNATIVE ACCESS ROUTES AND/OR PARTIAL DISASSEMBLY OF EXISTING ELEMENTS. CONTRACTORS SHALL COORDINATE THIS PROCESS WITH THE CITY OF GOLETA.

1 SECOND FLOOR PARTIAL REFLECTED CEILING PLAN
A-101 | A-111 SCALE: 1/4" = 1'-0"

RCP GENERAL NOTES

1. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.
2. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
3. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.

KEYNOTES

- 02 40 13 A2 EXISTING LIGHT FIXTURE
- 02 40 13 A3 EXISTING MECHANICAL REGISTER
- 02 40 13 A5 EXISTING SKYLIGHT
- 02 41 19 A1 REMOVE AND PROTECT EXISTING CEILING GRID SYSTEM AND TILES, LIGHT FIXTURES, REGISTERS AND OTHER COMPONENTS. REPAIR OR REPLACE ANY DAMAGED CEILING COMPONENTS OR FIXTURES.

LEGEND

- AREA OF WORK, SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
- GENERAL LOCATION OF MECHANICAL UNIT ABOVE
- EXISTING GYPSUM BOARD CEILING
- EXISTING ACOUSTICAL TILE CEILING



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GOLETA CITY HALL - HVAC REPLACEMENT
130 CREMONA DRIVE, GOLETA CA 93117
SECOND FLOOR PARTIAL RCP

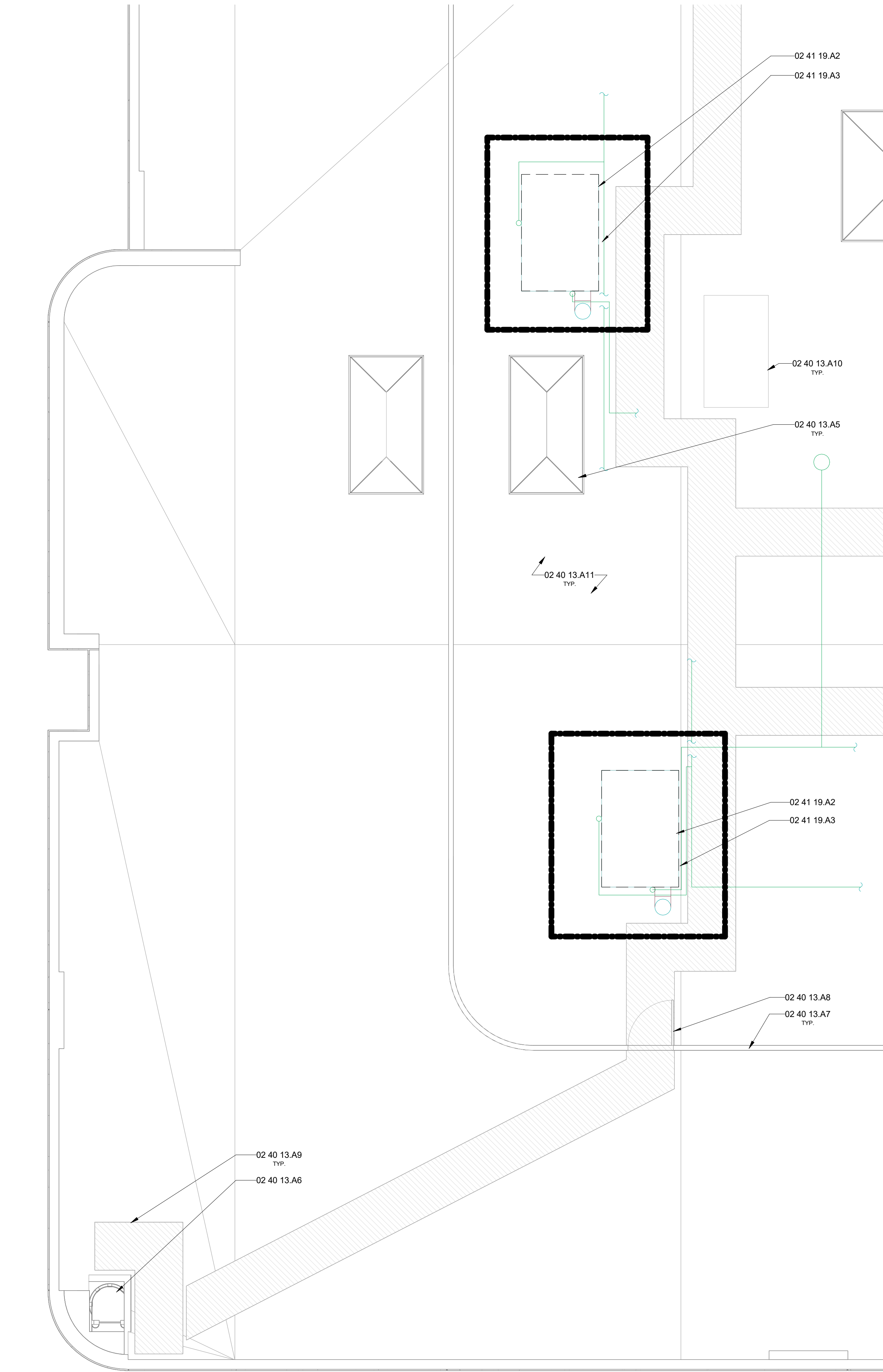
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DATE AUGUST 25, 2025	
PROJECT NUMBER 1806-03-PS24	
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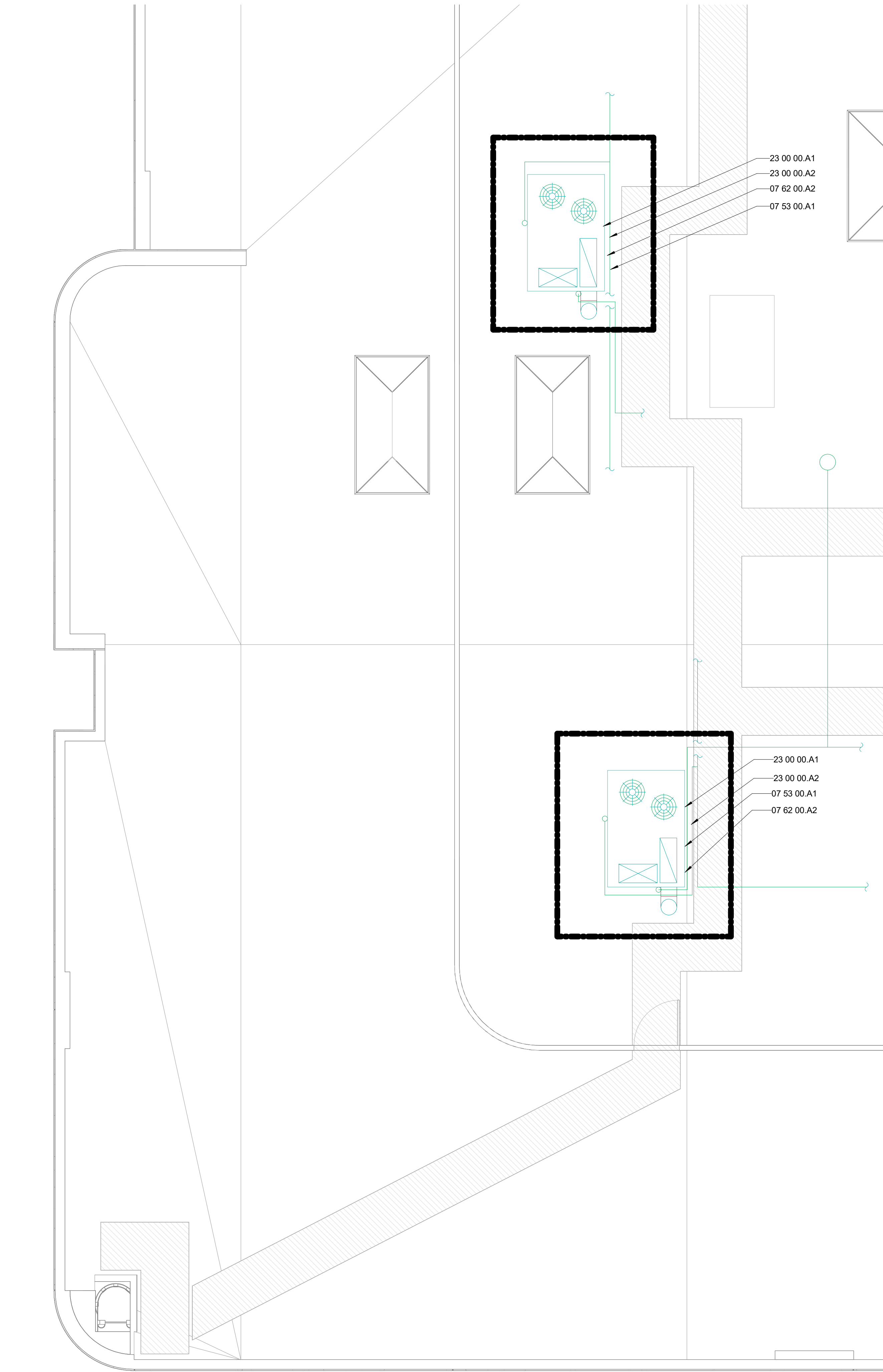
A-111

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1 PARTIAL ROOF PLAN - DEMO
A-121 SCALE: 1/4" = 1'-0"



2 PARTIAL ROOF PLAN - NEW
A-101 A-121 SCALE: 1/4" = 1'-0"

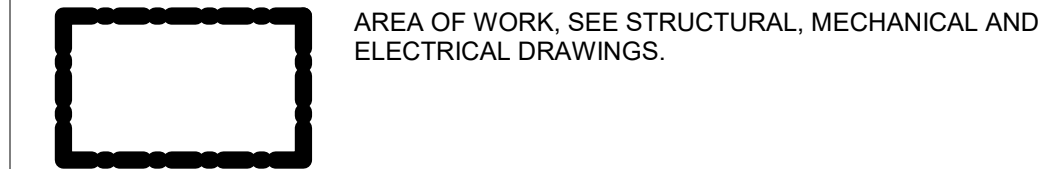
ROOF PLAN GENERAL NOTES

1. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.
2. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
3. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
4. ALL ROOFING MATERIALS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
5. ROOF COVERINGS AND UNDERLAYMENT SHALL BE APPLIED IN ACCORDANCE WITH (2022 CBC 1507.1), AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.
6. ALL WORK ON THE ROOF, INCLUDING PENETRATIONS FOR MECHANICAL AND/OR PLUMBING, SHALL BE PATCHED AND REPAIRED WITH A MATCHING ROOF ASSEMBLY TO EXISTING. WORK SHALL ADHERE TO THE REQUIREMENTS OF THE WARRANTY OF THE EXISTING ROOF SYSTEM TO MAINTAIN THE EXISTING WARRANTY.
7. CONTRACTOR TO COORDINATE WITH EXISTING ROOF MANUFACTURER TO SCHEDULE INSPECTIONS THAT MAY BE REQUIRED TO MAINTAIN THE EXISTING ROOF WARRANTY.

KEYNOTES

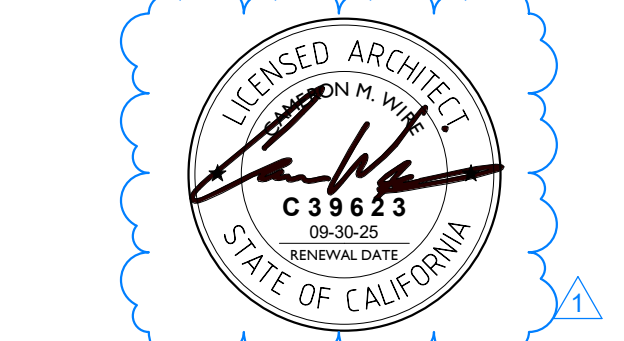
- 02 40 13.A5 EXISTING SKYLIGHT
02 40 13.A6 EXISTING ROOF ACCESS LADDER
02 40 13.A7 EXISTING ROOF SCREEN
02 40 13.A8 EXISTING ACCESS GATE
02 40 13.A9 EXISTING ROOF WALKING PADS
02 40 13.A10 EXISTING MECHANICAL UNIT TO REMAIN
02 40 13.A11 EXISTING MEMBRANE ROOFING
02 41 19.A2 REMOVE EXISTING MECHANICAL UNIT
02 41 19.A3 REMOVE EXISTING MECHANICAL UNIT SUPPORT CURBS
07 53 00.A1 SINGLE-PLY MEMBRANE ROOFING
07 62 00.A2 ALUMINUM FLASHING
23 00 00.A1 NEW MECHANICAL UNIT, SEE MECHANICAL DRAWINGS.
23 00 00.A2 NEW MECHANICAL UNIT SUPPORT CURBS, SEE MECHANICAL DRAWINGS.

LEGEND



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CONSULTANT

AGENCY



GOLETA CITY HALL - HVAC REPLACEMENT
130 CREMONA DRIVE, GOLETA CA 93117
PARTIAL ROOF PLANS - DEMO & NEW

NO.	REVISION	DATE
△	PLAN CHECK RESPONSE 1	08/25/25
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PROJECT MANAGER
CD
DRAWN BY
CW
CHECKED BY
CW
DATE
AUGUST 25, 2025
PROJECT NUMBER
1806-03-PS24
SHEET

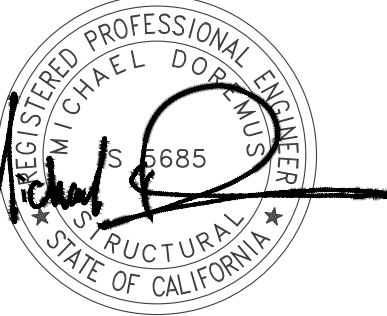
A-121

PLAN CHECK RESPONSE 1



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AGENCY

GOLETA CITY HALL
130 CREMONA DRIVE, GOLETA CA 93117

SHEET INDEX.
ABBREVIATIONS & SYMBOLS

NO.	REVISION	DATE
1	PLAN CHECK RESPONSE 1	08/25/25

PROJECT MANAGER M. DOREMUS	
DRAWN BY C. PRESSLER	CHECKED BY M. DOREMUS
DATE AUGUST 25, 2025	
PROJECT NUMBER 1806-03-PS24	
SHEET	

S-101

SUBMITTALS

- THE FOLLOWING SUBMITTALS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY THE ENGINEER:
A. ROUGH CARPENTRY: WOOD PRODUCT DATA AND MANUFACTURERS CERTIFICATES
- BEFORE SUBMITTING EACH SUBMITTAL, (INCLUDES SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS), THE CONTRACTOR SHALL HAVE:
A. REVIEWED AND COORDINATED EACH SUBMITTAL WITH OTHER SUBMITTALS AND WITH THE REQUIREMENTS OF THE WORK AND THE CONTRACT DOCUMENTS, THIS INCLUDES THE CONTRACTOR REVIEWING AND VERIFYING THAT THE SUBMITTAL IS COORDINATED AMONG ALL CONSTRUCTION TRADES;
B. DETERMINED AND VERIFIED ALL FIELD MEASUREMENTS, QUANTITIES, DIMENSIONS, SPECIFIED PERFORMANCE AND DESIGN CRITERIA, INSTALLATION REQUIREMENTS, MATERIALS, CATALOG NUMBERS AND SIMILAR INFORMATION
C. DETERMINED AND VERIFIED ALL INFORMATION RELATIVE TO THE CONTRACTOR'S RESPONSIBILITIES FOR MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION, AND SAFETY PRECAUTIONS AND PROGRAMS.
D. REVIEWED AND VERIFIED THAT THE ARCHITECT'S OR ENGINEER'S COMMENTS FROM PREVIOUS SUBMITTAL ROUNDS HAVE BEEN ADDRESSED.
- EACH SUBMITTAL SHALL BEAR A STAMP OR SPECIFIC WRITTEN CERTIFICATION THAT THE CONTRACTOR HAS SATISFIED THEIR OBLIGATIONS TO THE CONTRACT DOCUMENTS WITH RESPECT TO THE CONTRACTOR'S REVIEW AND APPROVAL OF THAT SUBMITTAL.
- THE CONTRACTOR'S OBLIGATION TO PERFORM AND COMPLETE THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS SHALL BE ABSOLUTE.
a. REVIEW AND APPROVAL OF SHOP DRAWINGS BY THE ARCHITECT AND/OR ENGINEER DOES NOT CONSTITUTE APPROVAL OF A CHANGE REQUEST, SUBSTITUTION OR MODIFICATION TO THE CONTRACT DRAWINGS.
b. THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED OF CHANGE REQUESTS, SUBSTITUTIONS OR MODIFICATIONS TO THE CONTRACT DRAWINGS IN WRITING BEFORE AND SEPARATE FROM THE SUBMITTAL PRIOR TO SUBMISSION.
- FABRICATION FOR ITEMS IN THESE DOCUMENTS SHALL NOT COMMENCE UNTIL THE SUBMITTAL HAS BEEN REVIEWED AND APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL ALLOW SUFFICIENT TIME FOR THE ENGINEER OF RECORD TO THOROUGHLY REVIEW SUBMITTAL PACKAGES (10 WORKING DAYS MINIMUM).

SHOP FABRICATION

- SHOP FABRICATION REQUIRES SPECIAL INSPECTION IN ACCORDANCE WITH CODE SECTION 1704.2.5. EXCEPTION: SHOP SPECIAL INSPECTIONS ARE NOT REQUIRED WHEN WORK IS DONE ON THE PREMISES OF FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK IN ACCORDANCE WITH CODE SECTION 1704.2.5.1. THE FOLLOWING ACCREDITATIONS MEET THE REQUIREMENTS OF THIS EXCEPTION:
B. WOOD BUILDINGS
a. STRUCTURAL GLUED LAMINATED TIMBER

STRUCTURAL GLUED LAMINATED TIMBER

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

STRUCTURAL GLUED LAMINATED TIMBER PROPERTIES ^C						
USE	COMBINATION SYMBOL	SPECIES OUTER/CORE	RATING ^A	APPEARANCE	REFERENCE ^A	
SIMPLE SPAN	24F-V4	DF/D	ATC OR APA-EWS	SEE NOTE D	2022 CBC 2303.1.3 (ATC/CANS 190.1-07 OR ANSI 190.1-12 AND ASTM D3273)	
CANTILEVER OR MULTI SPAN/CONTINUOUS	24F-V8	DF/D	ATC OR APA-EWS	SEE NOTE D		

TABLE NOTES:

- GLUED LAMINATED MEMBERS SHALL BE MANUFACTURED AS REQUIRED IN ASTM D 3737 AND EITHER OF THE FOLLOWING STANDARDS:
a. ANSI 175.15 (CODE REFERENCE)
b. ANSI 190.1-12 (CURRENT STANDARD)
- STRUCTURAL GLUED LAMINATED TIMBERS SHALL BE IDENTIFIED WITH A STAMP BEARING THE ATC QUALITY MARK OR APA-EPS TRADEMARK. PLACE STAMPS ON SURFACES THAT WILL NOT BE EXPOSED TO VIEW IN THE COMPLETED STRUCTURE. SUBMIT CERTIFICATES OF CONFORMANCE INDICATING THAT THE GLULAM MEMBERS CONFORM TO THE REQUIREMENTS OF AND
C. REFER TO GENERAL WOOD NOTES FOR PRESERVATIVE TREATMENT.
- STRUCTURAL GLUED LAMINATED MEMBERS SHALL BE OF THE FOLLOWING APPEARANCE GRADE:
a. INDUSTRIAL TYPICAL EXPOSURE FOR MEMBERS NOT EXPOSED TO VIEW IN THE COMPLETED WORK.
b. ARCHITECTURAL EXPOSURE FOR MEMBERS EXPOSED TO VIEW IN THE COMPLETED WORK.
c. PREMIUM EXPOSURE FOR SPECIFIC EXPOSED MEMBERS AS INDICATED ON THE DRAWINGS.
- ADHESIVES USED IN THE GLULAM MANUFACTURING PROCESS SHALL CONFORM TO ANSI 405-18 (PREVIOUSLY ATC 405) STANDARD FOR ADHESIVES FOR USE IN STRUCTURAL GLUED LAMINATED TIMBER. ADHESIVES SHALL BE A WET-USE ADHESIVE MEETING THE REQUIREMENTS OF ASTM D3229.
- MEMBERS SHALL HAVE A SEALER ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS AFTER FABRICATION. END SEAL EACH END OF THE MEMBER IMMEDIATELY AFTER CUTTING.
- PROVIDE CAMER AS INDICATED ON THE DRAWINGS.
- TRANSPORTATION, STORAGE, AND HANDLING:
A. REFER TO ATC 111-05, RECOMMENDED PRACTICE FOR PROTECTION OF STRUCTURAL GLUED LAMINATED TIMBER DURING TRAVEL, STORAGE AND ERECTION.
a. LOAD WRAP OR BUNDLE WRAP INDUSTRIAL APPEARANCE GRADE MEMBERS. ARCHITECTURAL OR PREMIUM GRADE MEMBERS SHALL BE WRAPPED INDIVIDUALLY AND REMAIN UNTIL PROTECTION IS NO LONGER REQUIRED FROM WEATHER, SUNLIGHT, SOILING, AND/OR OTHER TRADES. SLIT UNDERSIDE OF WRAPPINGS TO PREVENT ACCUMULATION OF MOISTURE.
B. STORAGE:
a. STORE GLULAM MEMBERS ON A FLAT SURFACE AT LEAST 6" ABOVE THE GROUND. PLACE SUPPORTS CLOSE ENOUGH TOGETHER TO PREVENT NOTICEABLE DEFLECTIONS.

WOOD STRUCTURAL PANELS (SHEATHING)

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

WOOD STRUCTURAL PANEL PROPERTIES						
USE	PLY	BOND CLASSIFICATION ^C	SHEATHING GRADE	PERFORMANCE RATING	SPAN RATING	RATING ^A
ROOF	5	EXPOSURE 1	REFER TO TYPICAL DIAPHRAGM SCHEDULE			APA 2022 CBC 2303.1.5 [DOC PS 1-19 OR PS 2-18]
FLOOR	5	EXPOSURE 1				APA
WALL ^A	5	EXPOSURE 1	REFER TO TYPICAL SHEAR WALL SCHEDULE			APA

TABLE NOTES:

- WOOD STRUCTURAL PANELS SHALL CONFORM TO THE REQUIREMENTS FOR THEIR TYPE IN ACCORDANCE WITH THE FOLLOWING VOLUNTARY STANDARDS BY THE ENGINEERED WOOD ASSOCIATION (AWA):
a. VOLUNTARY PRODUCT STANDARD, STRUCTURAL PLYWOOD, PS 1-09
b. VOLUNTARY PRODUCT STANDARD, PERFORMANCE STANDARD FOR WOOD-BASED STRUCTURAL-USE PANELS, PS 2-10
B. WOOD STRUCTURAL PANELS SHALL BE IDENTIFIED BY THE APA TRADEMARK INDICATING CONFORMANCE TO THE APPLICABLE VOLUNTARY STANDARD
C. WHERE PANELS ARE EXPOSED TO REPEATED WETTING AND REDRYING, LONG-TERM EXPOSURE TO WEATHER, OR CONDITIONS OF SIMILAR SEVERITY, "EXTERIOR" APA RATED PLYWOOD SHEATHING SHALL BE USED. C-D EXPOSURE 1 APA RATED PLYWOOD SHEATHING (CDX) SHALL NOT BE USED FOR CONDITIONS INVOLVING LONG-TERM EXPOSURE TO WEATHER.
a. EXCEPTION: WOOD STRUCTURAL PANEL ROOF SHEATHING EXPOSED TO THE OUTDOORS ON THE UNDERSIDE IS PERMITTED TO BE "EXPOSURE 1" TYPE.
b. WOOD STRUCTURAL PANELS TO BE USED AS SIDING SHALL COMPLY WITH ANSI/APA PRF-210.
D. ORIENTED STRAND BOARD (OSB) WITH EQUIVALENT CLASSIFICATION AND RATINGS MAY BE USED IN LIEU OF PLYWOOD FOR WOOD STRUCTURAL PANEL WALL SHEATHING.
- TRANSPORTATION, STORAGE, AND HANDLING:
A. TRANSPORTATION
a. IN TRANSPORTING PANELS ON OPEN TRUCK BEDS, COVER THE BUNDLES WITH A TARP.
B. STORAGE
a. ALWAYS STORE THE PANELS UNDER COVER WHENEVER POSSIBLE
b. WHEN STORING PANELS OUTSIDE STACK THEM ON A LEVEL SURFACE ON TOP OF STRINGERS OR OTHER BLOCKING, THREE STRINGERS MINIMUM.
c. NEVER LEAVE PANELS IN CONTACT WITH THE GROUND
d. COVER THE STACK WITH A PLASTIC TARP, ENSURING THAT THE BUNDLE IS WELL VENTILATED TO PREVENT MILDEW.
e. IF MOISTURE ABSORPTION IS EXPECTED, CUT THE STEEL BAND TO PREVENT DAMAGE
f. KEEP SANDED OR OTHER APPEARANCE GRADE PANELS AWAY FROM HIGH TRAFFIC AREAS
C. HANDLING
a. ALWAYS PROTECT ENDS AND EDGES, ESPECIALLY TONGUE AND GROOVE PRODUCTS, FROM PHYSICAL DAMAGE.
b. ACCLIMATE THE PANELS FOR 24 HOURS MINIMUM BEFORE INSTALLATION BY STANDING THE PANELS ON EDGE WITH A GAP BETWEEN EACH TO ALLOW FOR AIR CIRCULATION OR PER MANUFACTURER'S RECOMMENDATIONS.
- PLYWOOD ORIENTATION
A. ROOF AND FLOOR SHEATHING SHALL BE LAID WITH THE GRAIN OF THE OUTER PLYS PERPENDICULAR TO THE FRAMING MEMBERS. SHALL BE CONTINUOUS OVER 2 JOIST BAYS MINIMUM AND END JOINTS SHALL BE JOINED OVER FRAMING AND STAGGERED. LEAVE 1/2" GAP BETWEEN PANELS TO ALLOW FOR PANEL EXPANSION UNLESS RECOMMENDED OTHERWISE BY THE PANEL MANUF. REFER TO SPECIFIC DETAILS IN THE DRAWINGS FOR FURTHER PARAMETERS.
B. PLYWOOD OR OSB WALL SHEATHING MAY BE APPLIED VERTICALLY OR HORIZONTALLY. ALL END JOINTS BE JOINED OVER FRAMING AND STAGGERED.
- BLOCKING:
A. ROOF: ALL ROOF SHEATHING SHALL BE BLOCKED UNLESS SPECIFICALLY ALLOWED ON PLANS, WHERE PERMITTED TO BE UNBLOCKED. ALL UNBLOCKED EDGES SHALL BE TONGUE AND GROOVE.
B. ALL FLOOR SHEATHING SHALL BE BLOCKED UNLESS SPECIFICALLY ALLOWED ON PLANS, WHERE PERMITTED TO BE UNBLOCKED. ALL UNBLOCKED EDGES SHALL BE TONGUE AND GROOVE.
C. WALLS: ALL SHEAR WALLS SHALL BE FULLY BLOCKED AT PLYWOOD EDGES.
- FASTENERS
A. USE SHEATHING NAILS SAME GAUGE AS COMMON WIRE NAILS WITH LENGTHS AT LEAST EQUAL TO SHEATHING THICKNESS PLUS REQUIRED PENETRATION PER AWS D309S TABLE 4.2A OR 4.3A (AS REQUIRED).
B. EQUIVALENT PNEUMATIC DRIVE NAILS MAY BE USED IF FASTENER MANUFACTURER HAS RECEIVED ICC OR AWPA APPROVAL FOR THE INTENDED USE. FASTENERS TO BE SUBSTITUTED SHALL BE EQUIVALENT IN LATERAL AND WITHDRAWAL STRENGTH TO THE SIZE OF COMMON NAIL SPECIFIED.
C. USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOB SITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN S112 PLYWOOD OR OSB SHEATHING. IF NAIL HEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.
D. TYPICAL NAILING SHALL BE 16d AT 8" O.C. AT ALL SUPPORTED EDGES AND OVER SHEAR WALLS, AND 10d AT 12" O.C. AT ALL INTERMEDIATE SUPPORTS, UNLESS OTHERWISE NOTED. SEE PLANS AND REFER TO SHEAR WALL SCHEDULE.

EXISTING UNDERGROUND UTILITIES

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

DEMOLITION

- ALL DEMOLITION SHALL BE CARRIED ON IN SUCH A WAY AS NOT TO DAMAGE EXISTING ELEMENTS, WHICH ARE TO REMAIN IN THE FINISHED STRUCTURE.
- ALL ELEMENTS OF THE STRUCTURE, WHICH ARE TO REMAIN, AND WHICH ARE DAMAGED DURING DEMOLITION WORK SHALL BE REPLACED AT NO ADDITIONAL COST. EXISTING ELEMENTS SHALL BE PROTECTED TO THE FULLEST EXTENT POSSIBLE, IN ORDER TO MITIGATE DAMAGE.
- CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF ALL EXISTING ELEMENTS THAT ARE NECESSARY FOR THE INSTALLATION OF ALL NEW WORK.
- WHERE EXISTING PARTITION WALLS ARE TO BE DEMOLISHED, CONTRACTOR SHALL VERIFY WALLS ARE NON-BEARING. PRIOR TO DEMOLITION, IF WALLS ARE FOUND TO BE BEARING, CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY

SAWN LUMBER

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

SAWN LUMBER PROPERTIES				
USE	SIZE	SPECIES	GRADE	REFERENCE
MUDSILLS	2x4	D.F.	STANDARD OR BETTER PRESSURE TREATED	2022 CBC 2303.1.9
	2x6 AND LARGER	D.F.	NO. 2 OR BETTER PRESSURE TREATED	
	2x	REDWOOD	FOUNDATION GRADE	
HORIZONTAL FRAMING LUMBER				
ROOF JOISTS AND RAFTERS	2x	D.F.	NO. 2	WCLB & WWPA
FLOOR JOISTS	2x	D.F.	NO. 2	
HEADERS AND BEAMS	4x	D.F.	NO. 2	
ANY OTHER HORIZONTAL	4x4 AND SMALLER	D.F.	NO. 2	WCLB & WWPA
	6x6 AND LARGER	D.F.	NO. 1	
VERTICAL FRAMING LUMBER				
TOP PLATES	2x	D.F.	NO. 2	WCLB & WWPA
STUDS	2x4 & 3x4	D.F.	STUD	
	2x6 & 2x8	D.F.	NO. 2	
POSTS	4x4 & 6x6 POSTS	D.F.	NO. 2	WCLB & WWPA
	6x6 & LARGER POSTS	D.F.	NO. 1	
ALL OTHER FRAMING LUMBER				
ALL OTHER FRAMING LUMBER UNO	ALL SIZES	D.F.	STANDARD & BETTER	WCLB & WWPA
- FLOOR JOISTS SHALL BE GRADE STAMPED "S-DRY" WHICH INDICATES A MOISTURE CONTENT NOT EXCEEDING 19 PERCENT.
- ALL SOLE PLATES AND TOP PLATES SHALL BE GRADE STAMPED "KD" WHICH INDICATES KILN DRIED WITH A MOISTURE CONTENT NOT EXCEEDING 15 PERCENT AT BUILDINGS WITH 4 OR MORE STORES.
- STUD WALLS SHOWN ON PLANS ARE NON-BEARING PARTITIONS WALLS. BEARING WALLS OR SHEAR WALLS BELOW THE FRAMING LEVEL, UNLESS NOTED OTHERWISE. STUDS SHALL BE SIZE AND SPACING AS NOTED IN THE DRAWINGS, SEE PLANS AND ARCHITECTURAL DRAWINGS, UNLESS OTHERWISE NOTED.
- MINIMUM FRAMING NAILING SHALL CONFORM TO CBC TABLE 2304.10.2. ALL NAILS SHALL BE COMMON WIRE NAILS, PREDRIEL NAIL HOLES TO 70% OF NAIL SHANK DIAMETER WHERE NAILING TENDS TO SPLIT WOOD.
- UNLESS OTHERWISE NOTED, ALL WOOD SILL PLATES UNDER BEARING, EXTERIOR, OR SHEAR WALLS IN CONTACT WITH CONCRETE OR MASONRY SHALL BE BOLTED TO THE CONCRETE OR MASONRY WITH 5/8" D X 12" BOLTS W/ 1227" X 3" X 3" PLATE WASHERS (PLATE 1/4" O.C. BEGINNING AT 1" O.C. MAXIMUM FROM EACH END OF THE PLATES, THE BOLTS SHALL EXTEND A MINIMUM OF 7" INTO THE CONCRETE OR MASONRY. POWDER DRIVEN PINS AT 1/3 OF THE BOLT SPACING OR 24" O.C. MAXIMUM MAY BE SUBSTITUTED FOR THE ANCHOR BOLTS AT INTERIOR NON-SHEAR WALLS ONLY).
- PRESERVATIVE TREATMENT:
A. WOOD MEMBERS SHALL BE PRESERVATIVE TREATED IN ACCORDANCE WITH ATC 109-07, STANDARD FOR PRESERVATIVE TREATMENT, BASED ON THE SERVICE CONDITION PER THE USE CATEGORIES (UC#) SPECIFIED IN AWPA U1-20.
a. UC1 - INTERIOR CONSTRUCTION, ABOVE GROUND, DRY - NO PRESERVATIVE TREATMENT REQUIRED.
b. UC2 - INTERIOR CONSTRUCTION, ABOVE GROUND, WET - PRESERVATIVE TREATMENT REQUIRED IF THE HUMIDITY OR MOISTURE CONCENTRATION IS 20% OR GREATER.
c. UC3 - EXTERIOR CONSTRUCTION ABOVE GROUND - PRESERVATIVE TREATMENT REQUIRED.
B. FOR ALL TREATED WOOD MEMBERS, ALL CUTS, HOLES OR INJURIES SUCH AS ABRASIONS OR HOLES FROM REMOVAL NAILS AND SPIKES WHICH MAY PENETRATE THE TREATED ZONE SHALL BE FIELD TREATED IN ACCORDANCE WITH AWPA M4-15. THE FOLLOWING FLEED TREATMENTS SHALL BE USED:
a. BORED HOLES/HOLES FOR CONNECTORS OR BOLTS MAY BE TREATED BY PUMPING COAL TAR ROOFING GUMBIT MEETING ASTM D5543 INTO HOLES USING A GREASE GUN OR SIMILAR DEVICE.
b. EXTERIOR COPPER NAPHENATE.
c. INTERIOR INORGANIC BORON PRESERVATIVES LIMITED TO USE IN APPLICATIONS NOT IN CONTACT WITH GROUND AND CONTINUOUSLY PROTECTED FROM LIQUID WATER.
C. ALL LUMBER IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED LUMBER WITH AWPA TREATMENT C2 USING EITHER ALKALINE QUAT (AQO TYPE B AND D), COPPER AZOLE (CBA-A, CA-8), OR SODIUM BORATES (SBR), ANCHOR BOLTS, FASTENERS, AND METAL FRAMING CONNECTORS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT-DIPPED GALVANIZED TO A RATING OF G-185 PER ASTM A653.

- PROVIDE 2 STUDS UNDER ALL 4 X 10 AND LARGER BEAMS OR HEADERS AT SPANS 4 FEET OR LONGER, UNLESS OTHERWISE NOTED. WHERE POSTS OR MULTIPLE STUDS UNDER BEAMS OR HEADERS ARE CALLED FOR ON DRAWINGS THOSE POSTS OR MULTIPLE STUDS SHALL BE CARRIED TO THE FOUNDATION/PODIUM LEVEL.
- PROVIDE THE FOLLOWING BLOCKING AS A MINIMUM, UNLESS SHOWN OTHERWISE:
2x FULL DEPTH SOLID BLOCKING BETWEEN JOISTS OVER SUPPORT.
2x FULL DEPTH SOLID BLOCKING BETWEEN JOISTS OVER AND BELOW PARTITION WALLS.
- DOUBLE STUDS UNDER PARTITIONS RUNNING PARALLEL TO JOISTS, UNLESS SUPPORTED BY A WALL BELOW OR SHOWN OTHERWISE. NAIL DOUBLED JOISTS WITH 16d AT 12" O.C., STAGGERED.
- BRIDGING SHALL BE 2X SOLID BLOCKS, INSTALLED AS FOLLOWS:
ROOF JOISTS MORE THAN 8" O.C. MAXIMUM, NOT MORE THAN 8'0" FROM SUPPORT.
FLOOR JOISTS MORE THAN 10" DEPTH, 8" O" O.C. MAXIMUM, NOT MORE THAN 8'0" FROM SUPPORT.
- JOIST HANGERS AND OTHER METAL FRAMING ACCESSORIES ARE REFERRED TO ON PLANS BY PARTICULAR TYPE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, STOCKTON, CALIFORNIA. ACCESSORIES OF OTHER MANUFACTURERS WITH EQUIVALENT LOAD CARRYING CHARACTERISTICS MAY BE USED WITH APPROVAL BY SEOR.
- FIRE STOPPING, BACKING FOR INTERIOR FINISHES, NON-BEARING WALLS, AND OTHER NON STRUCTURAL FRAMING ARE NOT NECESSARILY SHOWN ON STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS.
- THE TOP OF NON-BEARING WALLS SHALL NOT BE IN CONTACT WITH JOISTS/TRUSSES/RAFTERS ABOVE. REFER TO THE REFERENCED DETAILS FOR REQUIRED GAP, 1/2" MINIMUM, UNLESS NOTED OTHERWISE IN DETAIL.

HARDWARE AND CONNECTORS

GENERAL:
USE ALL SPECIFIED FASTENERS AS SPECIFIED ON PLANS. IF NOT INDICATED ON PLANS PROVIDE FASTENERS PER MPFS APPROVED ICC-ESR REPORT OR PRODUCT LITERATURE

HOLD-DOWNS:

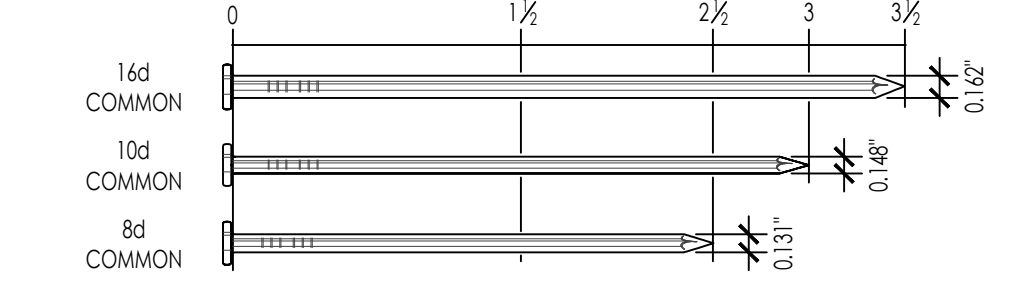
- DO NOT OVER TIGHTEN NUTS ON THE DOWN ANCHOR RODS OR BOLTS. TIGHTEN ANCHOR ROD NUTS ONE-THIRD TO ONE HALF TURN BEYOND FINGER TIGHT
- INSTALL ALL HOLD-DOWNS TIGHT TO END STUDS/POST. DO NOT USE FILLER BLOCKS. FOR MISALIGNED ANCHOR BOLTS, EXTEND THE ANCHOR ROD AT A 1/6 (HORIZ/VERT) USING A COUPLER WITH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

TIE-DOWN & COLLECTOR STRAPS:

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

FASTENER INFORMATION

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



DESIGN INFORMATION

DEAD LOADS	
LOCATIONS	UNIFORM (PSF)
ROOF:	BUILT UP ROOF OVER SAWN LUMBER W/ ACoustICAL TILE CEILING
FLOOR:	CARPET OVER GYPSUM OVER LJI JOISTS
EXTERIOR BEARING WALLS:	10" CONCRETE WALL
EXTERIOR NON BEARING WALLS:	PLASTER/STUCCO EXTERIOR WALL
INTERIOR NON BEARING WALLS:	NON-BEARING PARTITION WALL

- FLOOR LIVE LOADS: (2022 CBC SECTION 1603.1.1)

FLOOR LIVE LOADS			
OCCUPANCY OR USE	UNIFORM (PSF)	CONC. (LBS)	REFERENCE
OFFICES	50	---	2022 CBC TABLE 1607.1

- ROOF LIVE LOADS (2022 CBC SECTION 1603.1.2)

ROOF LIVE LOADS			
OCCUPANCY OR USE	UNIFORM (PSF)	CONC. (LBS)	REFERENCE
ROOF: ORDINARY FLAT, PITCHED AND CURVED ROOFS (THAT ARE NOT COVERED BY OTHER CATEGORY)	20	---	2022 CBC TABLE 1607.1

- ROOF SNOW LOADS (2022 CBC SECTION 1603.1.3)

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

- WIND DESIGN DATA (2022 CBC SECTION 1603.1.4) :

WIND DESIGN DATA		
PARAMETER	VALUE	REFERENCE
ULTIMATE DESIGN WIND SPEED (3-SEC GUST)	V _{ult} = 92 MPH	2022 CBC FIG. 1609.3
NOMINAL DESIGN WIND SPEED (3-SEC GUST)	V _{des} = 72 MPH	2022 CBC 1609.3.1
EXPOSURE CATEGORY	C	2022 CBC 1609.4.3
INTERNAL PRESSURE COEFFICIENT:	Gcpi = ± 0.18	ASCE 7-16 TABLE 26.13-1

COMPONENTS & CLADDING WIND PRESSURES (PSF)				
LOCATION	COMPONENT TRIJUTARY AREA (SQ FT)			
	10	100	500	
ROOF	ZONE 1	-19.4	-19.4	-16.0
	ZONE 1	-33.8	-26.6	-21.2
	ZONE 2	-44.5	-35.6	-28.4
	ZONE 3	-60.7	-41.9	-28.4
	ALL ZONES	16.0	16.0	16.0
	ZONE 1	-33.8	-32.0	-21.2
OVERHANG	ZONE 1	-33.8	-32.0	-21.2
	ZONE 2	-44.5	-32.0	-23.0
	ZONE 3	-60.7	-39.2	-23.0
	ZONE 4	-23.0	-19.9	-17.6
WALL	ZONE 5	-28.4	-22.1	-17.6
	POSITIVE	21.2	17.6	16.0

- EARTHQUAKE DESIGN DATA (2022 CBC SECTION 1603.1.5):

SITE AND OCCUPANCY PARAMETERS			
PARAMETER	VALUE	REFERENCE	
RISK CATEGORY	II	2022 CBC TABLE 1604.5	
SEISMIC IMPORTANCE FACTOR	I = 1.0	ASCE 7-16 TABLE 1-5.2	
MAPPED SPECTRAL RESPONSE ACCELERATIONS:	S ₁ = 2.322	2022 CBC 1613.2.1	
	S _{0.1} = 0.818		
SITE CLASS	D (DEFAULT)	2022 CBC 1613.2.2	
SPECTRAL RESPONSE COEFFICIENTS:	S _{RS1} = 1.838	2022 CBC 1613.2.4	
	S _{RS2} = 0.927		

- GEOTECHNICAL INFORMATION (2022 CBC SECTION 1603.1.6):
REFER TO FOUNDATION GENERAL NOTES

FOUNDATION

- GEOTECHNICAL INFORMATION AND FOUNDATION DESIGN IS BASED ON THE FOLLOWING:
A. DESIGN LATERAL SOIL LOADS ARE IN ACCORDANCE WITH 2022 CBC TABLE 1610.1
B. ALLOWABLE FOUNDATION BEARING AND LATERAL PRESSURES ARE IN ACCORDANCE WITH 2022 CBC TABLE 1806.2
C. VALUES LISTED SHALL BE VERIFIED BY A LICENSED GEOTECHNICAL ENGINEER

- SPREAD OR CONTINUOUS FOOTINGS:

ELEM/MT	ALLOWABLE BEARING CAPACITY (PSF) ¹	ALLOWABLE LATERAL RESISTANCE ¹	
		PASSIVE RESISTANCE (PSF FT BELOW GRADE) ²	COHESION (PSF)
CONT FOOTING	1,500	100	120

NOTES:

- THE ALLOWABLE CAPACITY MAY BE INCREASED BY ONE-THIRD WHEN CONSIDERING LOADS OF SHORT DURATION SUCH AS WIND OR SEISMIC FORCES.
- THE ALLOWABLE LATERAL RESISTANCE CAN BE TAKEN AS THE SUM OF THE FRICTIONAL RESISTANCE AND PASSIVE RESISTANCE.
- THE UPPER 0 FOOT OF SOIL NOT PROTECTED BY PAVEMENT SHALL BE NEGLECTED WHEN CALCULATING PASSIVE RESISTANCE.
- COMPACTED FILL SHOULD BE PREPARED AS FOLLOWS: A MIN OF 12" OF COMPACTED FILL SHALL BE PROVIDED, COMPACTED TO A MIN OF 90 PERCENT MODIFIED PROCTOR IN ACCORDANCE WITH ASTM D 1557 (2022 CBC 1804.6)
- MAY BE DOUBLED FOR ISOLATED POLES PER 2022 CBC 1806.3.4

- WHERE NOT SHOWN ON THE DRAWINGS, CONTRACTOR TO PROVIDE FOR DESIGN AND INSTALLATION OF ALL CORROSION, SHEATHING AND SHORING REQUIRED AND SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING JACKING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES.
- CONTRACTOR TO PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER AND/OR SEEPAGE.
- EXCAVATION FOR FOOTINGS SHALL BE APPROVED BY THE INSPECTOR OR GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE AND REINFORCING.
- ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE OR GROUT HAS ATTAINED FULL DESIGN STRENGTH. CONTRACTOR SHALL PROVIDE FIRE DESIGN, PERMITS AND INSTALLATION OF SUCH BRACING.
- EXCAVATIONS SHALL BE CUT SQUARE AND SMOOTH, WITH LEVEL BOTTOMS.
- FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT AND APPROVED BY THE GEOTECHNICAL ENGINEER. FLOODING WILL NOT BE PERMITTED. ALL FILLS USED TO SUPPORT FOUNDATIONS SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER REPRESENTATIVE PER SECTION 1706.6 OF THE CODE.
- ALL ABANDONED FOOTINGS, UTILITIES, ETC., SHALL BE REMOVED. NEW FOOTINGS MUST EXTEND INTO UNDISTURBED SOILS.
- PIPES WITHIN THE ZONE OF INFLUENCE OF BUILDING OR SITE ELEMENT FOUNDATIONS SHALL BE ENCASED IN LEAN CONCRETE IN THE DIRECTION OF THE GEOTECHNICAL ENGINEER OF RECORD.

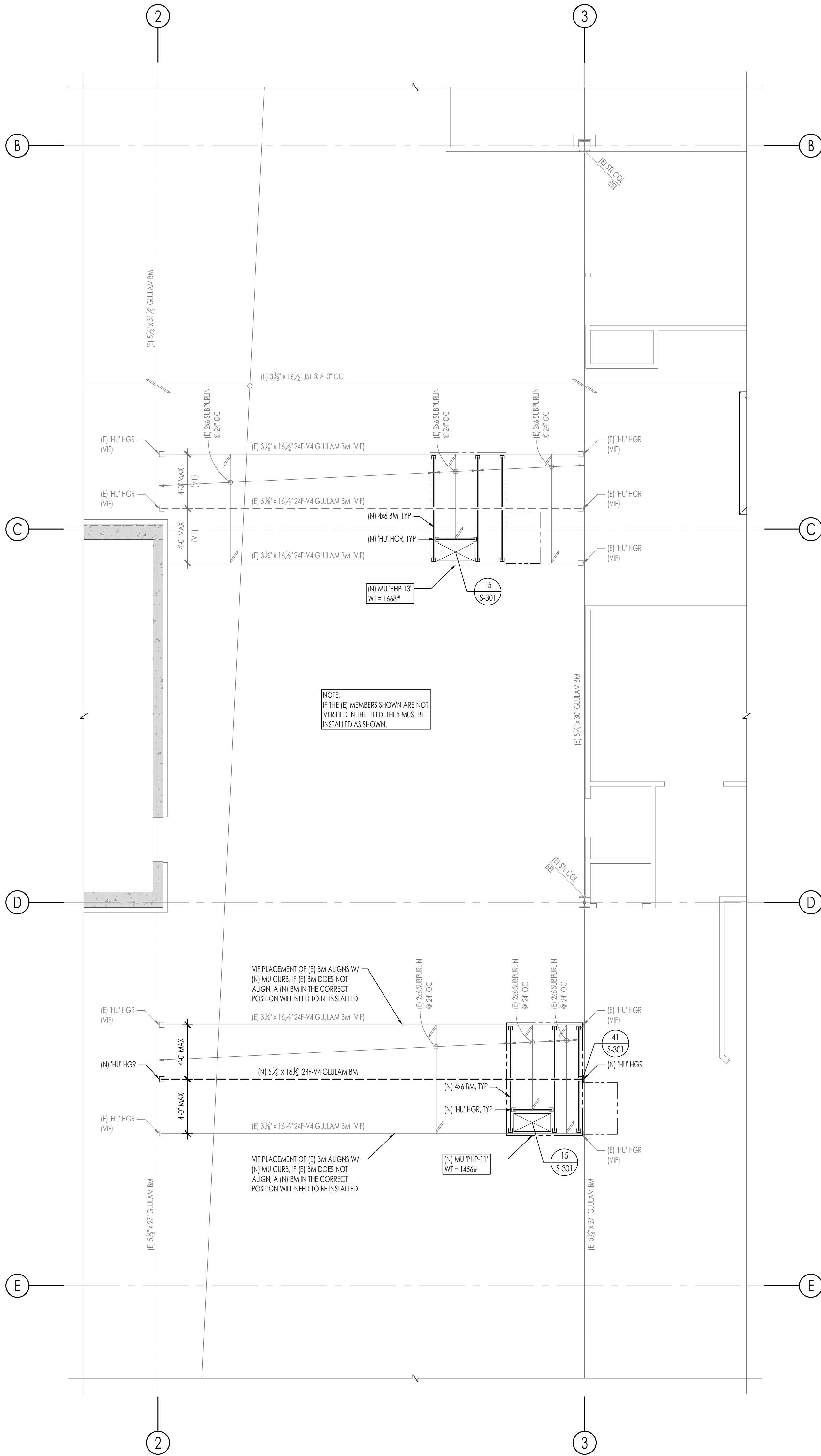
EXISTING CONDITIONS

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

GENERAL

- ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES AND STANDARDS:
A. 2022 CALIFORNIA BUILDING CODE, PART 2, VOLUME 2 OF 3, AND TITLE 24 C.C.R. 2022 EDITION AND LATEST REVISIONS (INCLUDING SUPPLEMENTS AND ERRATA) HEREIN REFERRED TO AS "THE CODE".
C. CODES & STANDARDS REFERENCED IN THE CODE OR LISTED IN THESE NOTES AND SPECIFICATIONS.
2. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
3. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR

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1 PARTIAL ROOF FRAMING PLAN - OPTION A
SCALE: 1/4" = 1'-0"

ROOF FRAMING NOTES

- SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND ELEVATIONS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING. ALL DIMENSIONS TO BE VERIFIED PRIOR TO CONSTRUCTION:
A. GRID DIMENSIONS AND HORIZONTAL CONTROL
B. ALL DIMENSIONS, ELEVATIONS, FINISH SURFACE, SLOPES, DRAINS, SLAB DEPRESSIONS, ETC.
C. LOCATION AND EXTENT OF EXTERIOR WALL ASSEMBLIES AND OPENINGS
D. ALL NON STRUCTURAL WALLS
- REFER TO THE FOLLOWING SHEETS FOR TYPICAL DETAILS:

DESCRIPTION	SHEET (S)
SYMBOLS AND ABBREVIATIONS	S-101
STRUCTURAL GENERAL NOTES	S-102
TESTING AND INSPECTION	S-102
ROOF FRAMING DETAILS	S-301
- SEE ARCHITECTURAL DRAWINGS FOR ALL TOP OF SHEATHING AND TOP OF WALL ELEVATIONS.
- SEE ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR SEE AND LOCATION OF PIPES, DUCTS AND OTHER ROOF PENETRATIONS. FOR ROOF PENETRATIONS NOT SHOWN ON ROOF FRAMING PLAN, SEE DETAIL S-5/S-301 FOR TYPICAL OPENINGS, UNO.
- SEE ARCHITECTURAL DRAWINGS FOR SEE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS IN BEARING AND NON-BEARING WALLS.
- ALL LINES AND/OR MEMBERS INDICATED AS 'STRUT' SHALL RECEIVE (2) ROWS OF BOUNDARY NAILING (BN), STGR.
- 'MU' INDICATES MECHANICAL UNIT. MAXIMUM ALLOWABLE WEIGHT IS SHOWN, INCLUDING CURB & COMBINATION ECONOMIZER & POWER EXHAUST. SEE MECHANICAL & ARCHITECTURAL DRAWINGS FOR EXACT LOCATION & WEIGHT OF EQUIPMENT. ATTACH MECH UNITS TO STRUCTURE PER DETAIL S-1/S-301. SEE DETAIL S-5/S-301 FOR OPENINGS IN ROOF FRAMING.
- EXISTING FRAMING (INCLUDING, BUT NOT LIMITED TO, GLULAM GRADE STAMP, DIMENSIONS OF FRAMING AND LOCATION OF FRAMING) SHALL BE CONFIRMED PRIOR TO STARTING WORK WITH THIS PERMIT.



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CONSULTANT

AGENCY

GOLETA CITY HALL
130 CREMONA DRIVE, GOLETA CA 93117
ROOF FRAMING PLAN

NO.	REVISION	DATE
△	PLAN CHECK RESPONSE 1	08/25/25
△		
△		
△		
△		

PROJECT MANAGER
M. DOREMUS
DRAWN BY
C. PRESSLER
CHECKED BY
M. DOREMUS
DATE
AUGUST 25, 2025
PROJECT NUMBER
1806-03-PS24
SHEET

S-201

PLAN CHECK RESPONSE 1

[illegible]

FASTENING SCHEDULE PER 2022 CBC 2304.10.1		
CONNECTION	FASTENING	LOCATION
1. BLOCKING BETWEEN CEILING JOISTS, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW	3-8d COMMON	EACH END, TOENAIL
2. BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL TO TOP PLATE, TO RAFTER OR TRUSS	2-8d COMMON	EACH END, TOENAIL
3. FLAT BLOCKING TO TRUSS AND WEB FILLER	2-16d COMMON	END NAIL
4. CEILING JOIST TO TOP PLATE	1-6d COMMON @ 8" OC	FACE NAIL
5. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS	3-8d COMMON	EACH JOIST, TOENAIL
6. CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT)	3-16d COMMON	FACE NAIL
7. COLLAR TIE TO RAFTER	3-16d COMMON	FACE NAIL
8. RAFTER OR ROOF TRUSS TO PLATE	3-10d COMMON	TOENAIL*
9. ROOF RAFTER TO RIDGE VALLEY OR HIP RAFTER, OR ROOF RAFTER TO 2-INCH RIDGE BEAM	2-16d COMMON	END NAIL
10. STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS	3-10d COMMON	TOENAIL
11. BUILT-UP HEADER (2" TO 2" HEADER)	1-6d COMMON	1/6" OC FACE NAIL
12. CONTINUOUS HEADER TO STUD	1-6d COMMON	1/6" OC EACH EDGE, FACE NAIL
13. TOP PLATE TO TOP PLATE	4-10d COMMON	TOENAIL
14. TOP PLATE TO TOP PLATE, AT END JOINTS	1-6d COMMON	1/6" OC FACE NAIL
15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING	2-16d COMMON	EACH SIDE OF END JOINT, FACE NAIL (MINIMUM 24" LAP SPICE LENGTH EACH SIDE OF END JOINT)
16. STUD TO TOP OR BOTTOM PLATE	1/6" OC FACE NAIL	
17. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	4-8d COMMON	TOENAIL
18. JOIST TO SILL, TOP PLATE, OR GIRDER	2-16d COMMON	END NAIL
19. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON	FACE NAIL
20. RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW	3-8d COMMON	TOENAIL
21. 1x6" SUBFLOOR OR LESS TO EACH JOIST	8d COMMON	6" OC, TOENAIL
22. 2" SUBFLOOR TO JOIST OR GIRDER	2-8d COMMON	FACE NAIL
23. BUILT-UP GIRDER AND BEAMS, 2" LUMBER LAYERS	2-16d COMMON	FACE NAIL
24. LEDGER STRIP SUPPORTING JOIST OR RAFTERS	2-8d COMMON	3/2" OC FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDE
25. JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON	EACH JOIST OR RAFTER, FACE NAIL
26. JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON	END NAIL
27. BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS	2-8d COMMON	EACH END, TOENAIL

NOTES:

THIS NAILING SCHEDULE SHALL ONLY BE USED IF CONDITION IS NOT OTHERWISE DETAILED OR SPECIFIED ON THE CONSTRUCTION DOCUMENTS. COMMON NAILS SHALL BE USED EXCEPT WHERE OTHERWISE STATED.

WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

NAILING SCHEDULE

NOTES:

- NOTCHING AND BORING NOT PERMITTED IN THE SAME JOIST CROSS SECTION WITHOUT STRUCTURAL ENGINEER'S APPROVAL.
- NOTCH WIDTHS GREATER THAN SHOWN IN TABLE NOT PERMITTED WITHOUT STRUCTURAL ENGINEER'S APPROVAL.
- NO NOTCHES OR HOLES PERMITTED ANYWHERE IN CANTILEVERED ELEMENTS WITHOUT STRUCTURAL ENGINEER'S APPROVAL.
- SPACING BETWEEN PENETRATIONS SHALL BE THE GREATER OF 2 TIMES THE LARGEST HOLE DIAMETER OR 2".

JOIST SIZE	MAX HOLE	MAX NOTCH DEPTH	MAX END NOTCH	MAX NOTCH LENGTH
2x4	NONE	NONE	NONE	NONE
2x6	1 1/2"	1/2"	1 1/2"	1 1/2"
2x8	2 1/2"	1 1/2"	1 1/2"	2 1/2"
2x10	3"	1 1/2"	2 1/2"	3"
2x12	3 1/2"	1 1/2"	2 1/2"	3 1/2"

SAWN LUMBER AND RAFTER JOIST NOTCHING AND BORING LIMITATIONS

NOTES:

- THE MAXIMUM NUMBER OF HOLES SHALL NOT EXCEED 1 FOR EVERY 5 FEET OF BEAM LENGTH.
- PENETRATIONS MAY NOT BE DRILLED THROUGH CANTILEVERS.
- SQUARE PENETRATIONS MAY NOT BE CUT INTO BEAM.

1. THE MAXIMUM NUMBER OF HOLES SHALL NOT EXCEED 1 FOR EVERY 5 FEET OF BEAM LENGTH.

2. PENETRATIONS MAY NOT BE DRILLED THROUGH CANTILEVERS.

3. SQUARE PENETRATIONS MAY NOT BE CUT INTO BEAM.

GLB PENETRATIONS

NOTES:

- THE MAXIMUM NUMBER OF HOLES SHALL NOT EXCEED 1 FOR EVERY 5 FEET OF BEAM LENGTH.
- PENETRATIONS MAY NOT BE DRILLED THROUGH CANTILEVERS.
- SQUARE PENETRATIONS MAY NOT BE CUT INTO BEAM.

1. THE MAXIMUM NUMBER OF HOLES SHALL NOT EXCEED 1 FOR EVERY 5 FEET OF BEAM LENGTH.

2. PENETRATIONS MAY NOT BE DRILLED THROUGH CANTILEVERS.

3. SQUARE PENETRATIONS MAY NOT BE CUT INTO BEAM.

NOTES:

- THE MAXIMUM NUMBER OF HOLES SHALL NOT EXCEED 1 FOR EVERY 5 FEET OF BEAM LENGTH.
- PENETRATIONS MAY NOT BE DRILLED THROUGH CANTILEVERS.
- SQUARE PENETRATIONS MAY NOT BE CUT INTO BEAM.

1. THE MAXIMUM NUMBER OF HOLES SHALL NOT EXCEED 1 FOR EVERY 5 FEET OF BEAM LENGTH.

2. PENETRATIONS MAY NOT BE DRILLED THROUGH CANTILEVERS.

3. SQUARE PENETRATIONS MAY NOT BE CUT INTO BEAM.

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STRUCTURAL
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GOLETA CITY HALL

130 CREMONA DRIVE, GOLETA CA 93117

ROOF FRAMING DETAILS

NO.	REVISION	DATE
△	PLAN CHECK RESPONSE 1	08/25/25
△		
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△		

PROJECT MANAGER
M. DOREMUS

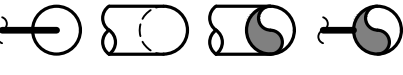





DRAWN BY
C. PRESSLER

CHECKED BY
M. DOREMUS

DATE
AUGUST 25, 2025

PROJECT NUMBER
1806-03-PS24

SHEET
S-301

MECHANICAL LEGEND		
SYMBOL	ABBREVIATION	DESCRIPTION
Ø	DIA	DIAMETER
⚡		ELECTRICAL PHASE
		ROUND DUCT TURNING DOWN, ROUND DUCT TURNING UP
		ACCESS CLEARANCE
	POC OR POD	POINT OF CONNECTION, POINT OF DISCONNECTION
		ITEMS RELATED TO THE MECHANICAL SYSTEMS THAT ARE TO BE REMOVED
	CD	CONDENSATE LINE
	G	GAS LINE

MECHANICAL ABBREVIATIONS			
AC	AIR CONDITION, AIR CONDITIONING, AIR CONDITIONED	HP	HORSE POWER
ABV	ABOVE	HVI	HOME VENTILATING INSTITUTE
AFF	ABOVE FINISHED FLOOR	HZ	HERTZ
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	IDU	INDOOR UNIT
AHJ	AUTHORITY HAVING JURISDICTION	IWC	INCHES OF WATER COLUMN
AHU	AIR HANDLING UNIT	KW	KILOWATT
ALUM	ALUMINUM	LBS	POUNDS
AMCA	AIR MOVEMENT AND CONTROL ASSOCIATION	LWT	LEAVING WATER TEMPERATURE
AMB	AMBIENT	MBH	1000 BRITISH THERMAL UNITS PER HOUR
AP	ACCESS PANEL	MCA	MINIMUM CIRCUIT AMPS
ARCH	ARCHITECT, ARCHITECTURAL	MFGR	MANUFACTURE OR MANUFACTURER
AHRI	AIR CONDITIONING, HEATING, AND 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	BRAKE HORSE POWER	NTS	NOT TO SCALE
BLDG	BUILDING	OA	OUTSIDE AIR
BTUH	BRITISH THERMAL UNIT PER HOUR	OAI	OUTSIDE AIR INTAKE
CA	COMBUSTION AIR	ODB	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	REF	REFRIGERANT, REFRIGERATION
DN	DOWN	RM	ROOM
DSA	DIVISION OF THE STATE ARCHITECT	RPM	REVOLUTIONS PER MINUTE
DTR	DOWN THROUGH ROOF	SA	SUPPLY AIR
(E)	EXISTING	SEER	SEASONAL ENERGY EFFICIENCY RATION
EA	EXHAUST AIR	SHT	SHEET
EC	EVAPORATIVE COOLER	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
EDB	ENTERING DRY BULB TEMPERATURE	SOV	SHUT OFF VALVE
EER	ENERGY EFFICIENCY RATIO	SP	STATIC PRESSURE
EFF	EFFICIENCY	SS	STAINLESS STEEL
ELEC	ELECTRICAL	SSE	STEADY STATE EFFICIENCY
ESP	EXTERNAL STATIC PRESSURE	SST	SATURATED SUCTION TEMPERATURE
EWB	ENTERING WET BULB	TEMP	TEMPORARY, TEMPERATURE
EWI	ENTERING WATER TEMPERATURE	TSP	TOTAL STATIC PRESSURE
FA	FROM ABOVE	TYP	TYPICAL
FC	FLEXIBLE CONNECTION	TXV	THERMAL EXPANSION VALVE
FD	FIRE DAMPER	UON	UNLESS OTHERWISE NOTED
FLA	FULL LOAD AMPS	UTR	UP TO OR UP THROUGH ROOF
FPM	FEET PER MINUTE	VD	VOLUME DAMPER
FSC	FAN SPEED CONTROLLER	VEX	VEHICLE EXHAUST SYSTEM
FSD	FIRE/SMOKE DAMPER	VRF	VARIABLE REFRIGERANT VOLUME
GA	GAGE, GAUGE	WB	WET BULB TEMPERATURE
GALV	GALVANIZED	WC	WATER COLUMN
GPM	GALLONS PER MINUTE	WG	WATER GAUGE
GYP	GYPSUM	WT	WEIGHT EXPRESSED IN POUNDS
HD	HEAD		

CAL GREEN CODE NONRESIDENTIAL MANDATORY MEASURES	
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 GUARANTEES/WARRANTIES FOR EACH SYSTEM. O&M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CCR, TITLE 8, SECTION 5402, 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.	
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 EXEMP 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/CDRH/TMLU/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 5.506 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.	
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 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	ALL WORK SHALL BE IN ACCORDANCE WITH CITY AND COUNTY CODES, CALIFORNIA ENERGY CONSERVATION STANDARDS, TITLE - 24, AND ALL OTHER APPLICABLE CODES.

MECHANICAL GENERAL NOTES	
1	COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING CODES: 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC); PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR) 2022 CALIFORNIA BUILDING CODE (CBC); PART 2, TITLE 24 CCR 2022 CALIFORNIA ELECTRICAL CODE (CEC); PART 3, TITLE 24 CCR 2022 CALIFORNIA MECHANICAL CODE (CMC); PART 4, TITLE 24 CCR 2022 CALIFORNIA PLUMBING CODE (CPC); PART 5, TITLE 24 CCR 2022 CALIFORNIA ENERGY CODE (CENC); PART 6, TITLE 24 CCR 2022 CALIFORNIA FIRE CODE (CFC); PART 9, TITLE 24 CCR 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN); PART 11, TITLE 24 CCR REPORT DEFICIENCIES WITHIN THIRTY (30) DAYS UPON AUTHORIZATION TO PROCEED.
2	THESE DRAWINGS ARE A GENERAL GRAPHIC PRESENTATION OF THE WORK. DUCTWORK, PIPING, AND EQUIPMENT, AS SHOWN, ARE SCHEMATIC. FABRICATE AND INSTALL BASED ON ACTUAL FIELD MEASUREMENT. COORDINATE WITH OTHER TRADES. ADHERE TO LOCATIONS AS CLOSELY AS POSSIBLE. VARY RUNS OR SHAPE OF DUCTWORK AS REQUIRED TO MEET STRUCTURAL AND OTHER INTERFERENCES AS REQUIRED BY THE ARCHITECT. MAINTAIN AN UP TO DATE SET OF AS-BUILT DRAWINGS AT THE JOB SITE.
3	THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL ITEMS RELATED TO MECHANICAL SYSTEMS WITH THE WORK OF OTHER TRADES BEFORE PROCEEDING WITH PROCURING OR FABRICATION OF EQUIPMENT, DUCTWORK, PIPING ETC. ITEMS TO BE COORDINATED SHALL INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING: CONSTRUCTION OF PLATFORMS AND SHAPED RUNNERS OR OTHER MEANS TO MOUNT CURBS LEVEL. ALL PLATFORMS AND CURBS SHALL BE LEVEL UNLESS OTHERWISE NOTED OR DETAILED ON THE MECHANICAL PLANS.
4	REVIEW ALL DRAWINGS AND SPECIFICATIONS INCLUDING ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL. ANY QUESTIONS SHALL BE BROUGHT UP, IN WRITING, TO THE ATTENTION OF THE ENGINEER BEFORE THE START OF CONSTRUCTION.
5	ALL EQUIPMENT SHALL BE INSTALLED WITH SUFFICIENT ACCESS TO CONTROLS, FILTERS, ELECTRIC MOTORS, ETC. ACCESS CLEARANCE SHALL BE 30" OR AS REQUIRED BY THE EQUIPMENT MANUFACTURER, WHICH EVER IS GREATER. CONTRACTORS SHALL PROVIDE ACCESS PANELS WHERE REQUIRED. WHERE VERTICAL SPACE ALLOWS, INSTALL DUCTWORK THAT IS IN CLOSE PROXIMITY TO MECHANICAL, ELECTRICAL OR ANY OTHER ITEM THAT REQUIRES ACCESS HIGH IN THE SPACE FOR EASE OF ACCESS.
6	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	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.
9	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.
10	CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF A ROOM OR AREA TO CONTROL COOLING, HEATING AND VENTILATING EQUIPMENT SHALL BE MOUNTED AT THE HEIGHTS GIVEN BY SECTION 11B-308.1 OF THE 2022 CBC. NOTIFY THE ARCHITECT IMMEDIATELY IF THE MOUNTING HEIGHTS REQUIRED BY THE 2022 CBC CANNOT BE OBTAINED AT THE LOCATION WHERE THE CONTROL DEVICE IS SHOWN ON THE MECHANICAL FLOOR PLANS.
11	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.
12	ALL EQUIPMENT SHALL BE LABELED AS TO THE SPACE THEY ARE SERVING.
13	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.
14	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.
15	EQUIPMENT WITH REFRIGERANT ACCESS PORTS LOCATED OUTDOORS IN AN AREA THAT IS NOT SECURED BY WALLS OR FENCING REQUIRING KEY ACCESS SHALL BE PROTECTED FROM WITH LOCKING-TYPE TAMPER RESISTANT CAPS.

PROJECT TEAM LIST			
TITLE	NAME	DESK NUMBER	EMAIL ADDRESS
PRINCIPAL IN CHARGE	BRIAN STARRETT	805.540.5388	BSTARRETT@3CENG.COM
PROJECT MANAGER	DENVER STANGER	805.540.5388	DSTANGER@3CENG.COM
MECHANICAL DESIGNER	DENVER STANGER	805.540.5388	DSTANGER@3CENG.COM

SHEET INDEX	
SHEET NUMBER	SHEET TITLE
M-000	GENERAL
M-001	SCHEDULES & DETAILS
M-121	PARTIAL ROOF PLANS



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AGENCY

GOLETA CITY HALL - HVAC REPLACEMENT

130 CREMONA DR, GOLETA CA 93117

GENERAL

NO.	REVISION	DATE
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PROJECT MANAGER DS	
DRAWN BY KH	CHECKED BY BS
DATE AUGUST 25, 2025	
PROJECT NUMBER 1806-03-PS24	
SHEET M-000	

PLAN CHECK RESPONSE 1

GENERAL NOTES APPLICABLE TO ALL UNITS:
A. EQUIPMENT IS EXISTING AND IS TO BE REMOVED AND REPLACED. DATA GIVEN FOR REFERENCE ONLY.

PACKAGED HEAT PUMP UNIT SCHEDULE																																			
TAG	MAKE	MODEL	NOM CAPACITY TONS	DUCT CONFIGURATION	REFRIGERANT	ELECTRICAL DATA		AHRI PERFORMANCE										AUXILIARY ELECTRIC HEAT		CONDENSATE CONNECTION SIZE	EVAPORATOR FAN DATA						MERV 13 FILTER QUANTITY AND SIZE	VENTILATION AIR BALANCE REQUIREMENTS CFM		WEIGHT W/ ACCESSORIES LBS	WEIGHT W/ ACCESSORIES & CURB LBS	REMARKS SEE BELOW	INSTALLATION DETAIL		
								COOLING					HEATING															MINIMUM OAI						DCV MAX OAI	
								POWER V/ø/Hz	MCA	FUSE SIZE	BTU/H	SEER [SEER2]	EER [EER2]	IEER	BTU/H AT 47°F	BTU/H AT 17°F	COP AT 47°F											HSPF [HSPF2]	KW					BTU/H	DRIVE
PH-11	CARRIER	50FEQM08	7.5	VERTICAL	R-454B	460/3/60	42	45	90,000	NA	11.20	15.0	84,000	45,000	3.4	NA	13.8	47,087	3/4"	DIRECT	1,980	3,000	1.0	1.5	1,609	2-STAGE	(4)20x20x2	650	NA	1,020	1,470	1.2,C1,C4	1/M001		
PH-13	CARRIER	50FEQM12	10.0	VERTICAL	R-454B	460/3/60	52	60	118,000	NA	11.00	15.0	112,000	64,000	3.4	NA	13.8	47,087	3/4"	DIRECT	2,640	4,000	0.90	2.34	1,882	2-STAGE	(4)20x20x2	550	NA	1,235	1,680	1.3,C1,C4	1/M001		
GENERAL NOTES APPLICABLE TO ALL UNITS: A. DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR. B. PACKAGED HEAT PUMP UNITS THAT PROVIDE POWER FROM THE UNIT TO ANY ENERGIZED ACCESSORY SHALL BE PROVIDED WITH A FACTORY NAMEPLATE THAT REFLECTS THE ELECTRICAL CHARACTERISTICS OF THE COMPLETE SYSTEM. NO EXCEPTIONS. C. PROVIDE WITH MICROMETL CRB3-SRT3AH4-11 STRUCTURALLY CALCULATED SPRING ISOLATION CURB. 11" BASE HEIGHT. D. PROVIDE WITH CSFM LISTED. FACTORY INSTALLED SMOKE DETECTOR LOCATED IN THE SUPPLY AIR COMPARTMENT. DETECTOR SHALL BE WIRED TO SHUTDOWN THE UNIT IMMEDIATELY UPON SMOKE DETECTION. E. PROVIDE WITH SINGLE POINT POWER KIT.																																			
CONTROL NOTES: C1. PROVIDE WITH HONEYWELL MODEL TC500A NETWORKABLE PROGRAMMABLE THERMOSTAT. INSTALL THERMOSTAT AT THE LOCATION OF THE (EITHER)MOSTABT BUT AT 48" AFF AS REQUIRED TO MEET ACCESSIBILITY REQUIREMENTS. EXTEND CONTROL WIRING AS NEEDED. UTILIZE THE ELECTRICAL BOX THE EXISTING THERMOSTAT IS MOUNTED ON AS A JUNCTION BOX TO SPLICE THE WIRING. PROVIDE COVER PLATE OVER EXISTING BOX. COLOR OF COVER PLATE TO MATCH ADJACENT EXISTING COVER PLATES.																																			

GENERAL NOTES APPLICABLE TO ALL UNITS:

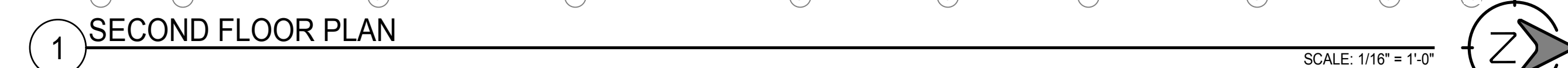
A. DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR

B. PACKAGED HEAT PUMP UNITS THAT PROVIDE POWER FROM THE UNIT TO ANY ENERGIZED ACCESSORY SHALL BE PROVIDED WITH A FACTORY NAMEPLATE THAT REFLECTS THE ELECTRICAL CHARACTERISTICS OF THE COMPLETE SYSTEM. NO EXCEPTIONS.

CONTROL NOTES:
C1. PROVIDE WITH HONEYWELL MODEL TC500A NETWORKABLE PROGRAMMABLE THERMOSTAT. INSTALL THERMOSTAT AT THE LOCATION OF THE (E)THERMOSTAT BUT AT 48" AFF AS REQUIRED TO MEET ACCESSIBILITY REQUIREMENTS. EXTEND CONTROL WIRING AS NEEDED. UTILIZE THE ELECTRICAL BOX THE EXISTING THERMOSTAT IS MOUNTED ON AS A JUNCTION BOX TO SPLICE THE WIRING. PROVIDE COVER PLATE OVER EXISTING BOX. COLOR OF COVER PLATE TO MATCH ADJACENT EXISTING COVER PLATES.

GENERAL NOTES APPLICABLE TO ALL UNITS:
 A. UNIT IS PROVIDED WITH A INTEGRAL 20 AMP DISCONNECT.
 B. ECONOMIZER SHALL MEET TITLE 24 MANDATORY REQUIREMENTS FOR DAMPER LEAKAGE, FAULT DETECTION AND DIAGNOSTIC CONTROLS.

CONTROL NOTES:
C1. ECONOMIZER SHALL BE DRY BULB CONTROLLED.
C2. ECONOMIZER SHALL BE PROVIDED WITH HONEYWELL JADE CONTROLLER AND BELIMO NON COMMUNICATING ACTUATORS.
C3. POWER EXHAUST SHALL MODULATE TO MAINTAIN 0.05" WC IN THE SPACE SERVED BY THE MATCHING UNIT.



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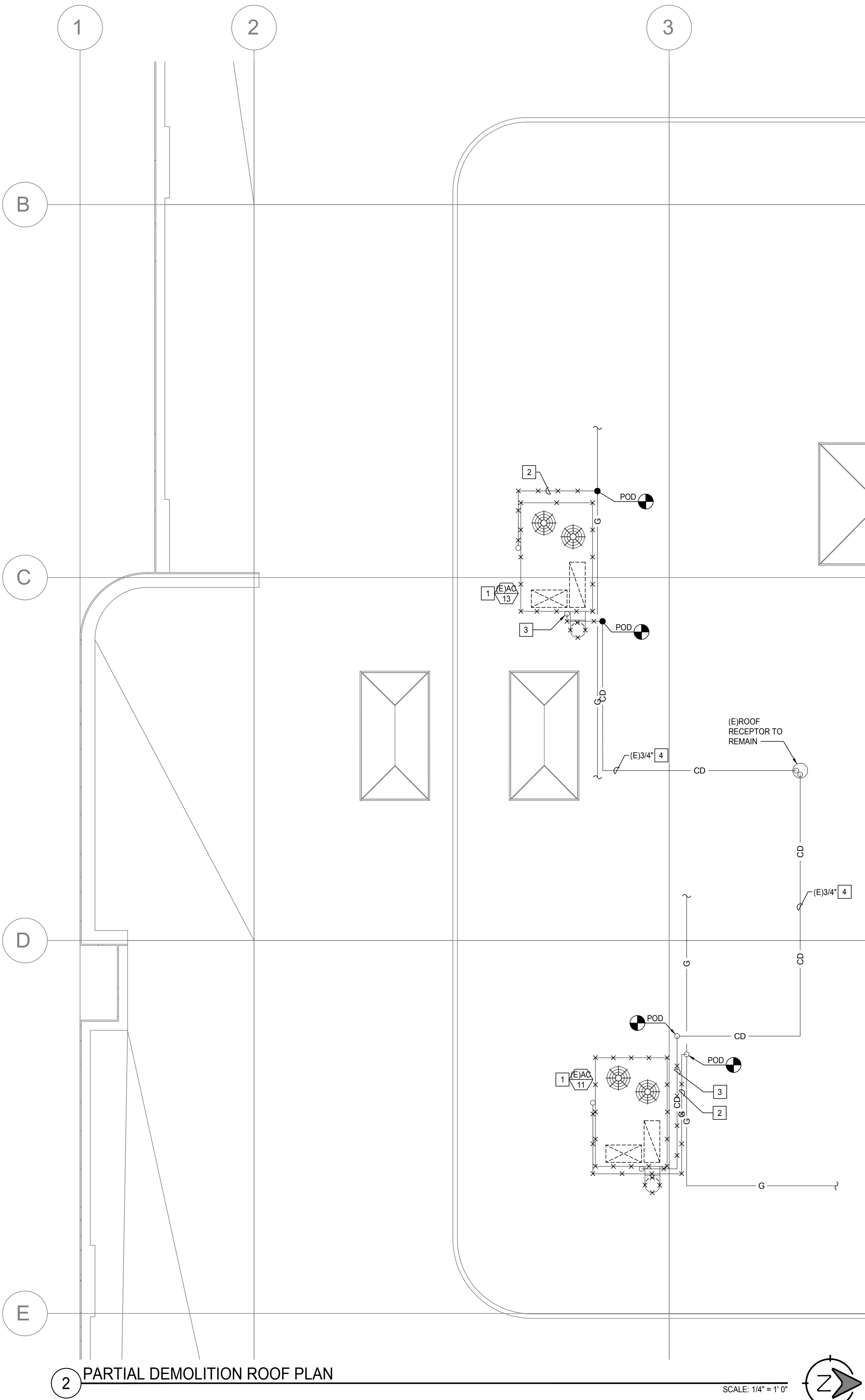
SCHEDULES & DETAILS

CHECK RESPONSES	PROJECT MANAGER DS	
	DRAWN BY KH	CHECKED BY BS
	DATE AUGUST 25, 2025	
	PROJECT NUMBER 1806-03-PS24	
	SHEET	

M-001

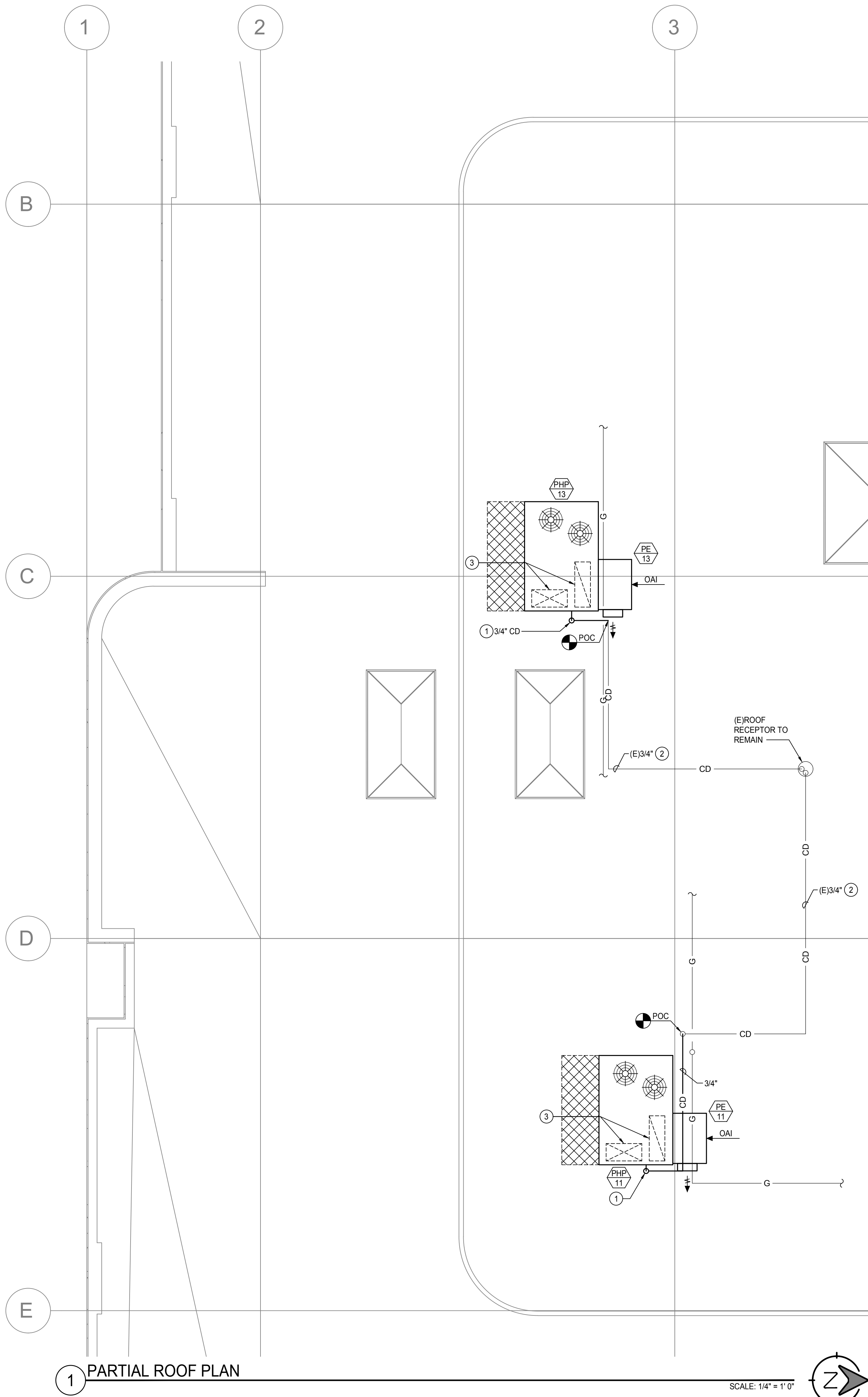
13

S:\ENG Projects\Goleta City Hall AC-11 & 13 Replacement\Engineering\Goleta City Hall AC-11_13 Replacement Mechanical Plan.dwg Moadpour778E Aug 22,2025 2:20pm



2 PARTIAL DEMOLITION ROOF PLAN

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



1 PARTIAL ROOF PLAN

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

START UP AND BALANCING

AFTER COMPLETION OF THE INSTALLATION OF THE NEW PACKAGED HEAT PUMPS AND COMBINATION ECONOMIZER AND MODULATING POWER EXHAUST THE CONTRACTOR SHALL STARTUP THE EQUIPMENT FOLLOWING THE MANUFACTURERS STARTUP PROCEDURES AND CHECKLIST. PROVIDE COMPLETED START UP CHECKLIST TO THE OWNER.

OVERALL SYSTEM AIRFLOW SHALL BE BALANCED TO ENSURE THE EQUIPMENT IS OPERATING AT THE SPECIFIED SUPPLY, RETURN AND OUTSIDE AIRFLOW VALUES. REFER TO THE PACKAGED HEAT PUMP SCHEDULE FOR THE SUPPLY AND VENTILATION AIRFLOW RATES.

DEMOLITION KEY NOTES

APPLICABLE TO THIS SHEET ONLY

- 1 AC UNIT TO BE REMOVED. DISCONNECT FROM POWER, CONTROL WIRING, GAS AND CONDENSATE. REMOVE UNIT AND ROOF CURB. CONTROL WIRING TO REMAIN.
- 2 GAS PIPING TO BE REMOVED. CAP PIPE AT POD. REMOVE PIPE AND ALL ASSOCIATED SUPPORTS TO POD.
- 3 CONDENSATE PIPING TO BE REMOVED. REMOVE PIPE AND ALL ASSOCIATED SUPPORTS TO POD.
- 4 CONDENSATE PIPING TO REMAIN. SUPPORTS SHALL BE REMOVED AND REPLACED.

DEMOLITION GENERAL NOTES

APPLICABLE TO THIS SHEET ONLY

- 1 ALL EXISTING ITEMS SHOWN HAVE BEEN COLLECTED FROM THE BEST AVAILABLE SOURCES. THE ENGINEER DOES NOT REPRESENT THE ACCURACY OF THESE ITEMS. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE SITE AND THE CONTRACT DOCUMENTS AND PERFORM ALL WORK WHICH MAY BE REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.

DEMOLITION PLAN STATEMENT

THIS DEMOLITION PLAN WAS PREPARED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER DOES NOT REPRESENT THAT ALL ITEMS WHICH MAY REQUIRE DEMOLITION HAVE BEEN SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY EXAMINE THE SITE AND THE CONTRACT DOCUMENTS AND TO PERFORM ALL DEMOLITION AND RECONSTRUCTION WHICH MAY BE REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK. DISPOSE REMOVED ITEMS PER THE CITY OF GOLETA MUNICIPAL CODE IN CHAPTER 8.10, ARTICLE IV, MANDATORY RECYCLING OF CONSTRUCTION DEBRIS.

ALL EXISTING ITEMS SHOWN ON THE PLANS HAS BEEN COLLECTED FROM THE BEST AVAILABLE RESOURCES. ACCURACY AND LOCATION OF EXISTING ITEMS MAY NOT BE ACCURATE.

KEY NOTES

APPLICABLE TO THIS SHEET ONLY

- 1 3/4" CD TO PHP. REFER TO DETAIL 2/M-001 FOR CONNECTION TO UNIT. REFER TO DETAIL 3/M-001 FOR SUPPORT.
- 2 (E)3/4" CD. PROVIDE NEW SUPPORTS. REFER TO DETAIL 3/M001.
- 3 PROVIDE NEW DROPRISER FROM THE PHP TO BELOW THE ROOF DECK. RECONFIGURE DUCTWORK BELOW ROOF AS REQUIRED TO CONNECT TO THE NEW DROPRISER.
- 3 CONTRACTOR SHALL VERIFY EXTENT OF THE RECONFIGURATION OF THE DUCTWORK BELOW THE ROOF DECK PRIOR TO BIDDING THE PROJECT. CONTRACTOR SHALL SUBMIT A SKETCH INDICATING HOW THEY INTEND TO RECONFIGURE THE DUCTWORK WITH THEIR BID.

HVAC GENERAL NOTES

APPLICABLE TO THIS SHEET ONLY

- 1 ALL EXISTING ITEMS SHOWN ON THE PLANS HAS BEEN COLLECTED FROM THE BEST AVAILABLE RESOURCES. ACCURACY AND LOCATION OF EXISTING ITEMS MAY NOT BE ACCURATE.



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AGENCY

GOLETA CITY HALL - HVAC REPLACEMENT
130 CREMONA DR, GOLETA CA 93117
PARTIAL ROOF PLANS

NO.	REVISION	DATE
1		
2		
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PROJECT MANAGER DS	CHECKED BY BS
DRAWN BY KH	DATE AUGUST 25, 2025
PROJECT NUMBER 1806-03-PS24	
SHEET M-121	

PLAN CHECK RESPONSE 1

Mechanical Systems		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE Project Name: <i>Gillette City Hall</i>		NREC-MCH-1 (Page 8 of 12) C/E/C2023	
		Report Date: _____ Date Prepared: _____	
I. VENTILATION AND INDOOR AIR QUALITY			
<i>*FOOTNOTES: SYSTEM CFM should include both mechanical and natural ventilation for the zoning/system</i>			
<i>* Air filtration requirements apply to the following three circumstances types per 120.1(c)(14): space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.</i>			
<i>* Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.</i>			
<i>* See Standards Tables 120.1-A and 120.1-B.</i>			
<i>* For rest/bath with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.</i>			
<i>* 120.2(b) requires systems serving rooms that are required by 130.1(c) to have lighting occupancy sensing controls to the California Energy Commission's occupancy sensing control for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000 ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stock aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless exempt by 130.1(c).</i>			
K. TERMINAL BOX CONTROLS			
<i>This section does not apply to this project.</i>			
L. DISTRIBUTION (DUCTWORK AND PIPING)			
<i>This table is used to show compliance with mandatory pipe insulation requirements found in 120.3 and mandatory requirements found in 120.4(g) for duct sealing.</i>			
01	<input type="checkbox"/>	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located below the conditioned space shall have a Class I Chloro-Flex vapor retarder. All penetrations and joints of which shall be sealed.	
Duct Leakage Testing			
The answers to the questions below apply to the following duct system(s):		AC-11	N/R / Common Use: Duct leakage testing shall not exceed 6% per Box 5.3 required for these systems?
		No	
Generated Date/Time:		Documentation Software: EnerPro	
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance		Compliance ID: EnerPro/2023-0016-025S-0483	
Schema Version: 2023.0.0.00		Report Generated: 2025-06-09 14:03:33	
Revision Number: INT_00000001			

STATE OF CALIFORNIA Mechanical Systems		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE Project Name: Colista City Hall		NCEC-MCS-1 Report Page: (Page 10 of 12) Date Prepared: 5/17/2023	
D. DISTRIBUTION (DUCTWORK AND PIPING)			
		Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems? Duct leakage testing per DAC Section 603.10.1 required for these systems?	No Yes
11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 SF of conditioned floor area.	
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system.	
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	No	All ductwork and plenums with pressure class ratings shall be constructed to Seal Class A.	
18	No	All ductwork is an extension of an existing duct system	
19	No	Ductwork serving individual dwelling unit	
20	No	< 25 ft of new or replacement space conditioning ducts installed	
21	R-6	< 25 ft of insulation R-value	
22	No		
23	No		
M. COOLING TOWERS			
This section does not apply to this project.			
Generated Date/Time:		Documentation Software: EnergyGho	
CA Building Energy Efficiency Standards - 2020 Nonresidential Compliance		Report Version: 2022.0.000 Schema Version: rev-20220101	
CA Building Energy Efficiency Standards - 2020 Nonresidential Compliance		Compliance ID: EnergyGho-2016-6252-03483 Report Generated: 2023-05-14 05:38	

STATE OF CALIFORNIA Mechanical Systems CERTIFICATE OF COMPLIANCE Project Name: Gulista City Hall		CALIFORNIA ENERGY COMMISSION MECH-NCC-4 (Page 1 of 2) 5/27/2023	
Report Page: Date Prepared:			

Fan Energy Index (FEI)		FEI Exemption		FEI	
Name or Item Tag					
AC-11		Altered Fan System			
AC-13		Altered Fan System			

I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and 170.2. 170.2 c) 140.4(f) or requirements in 141.0(b)(2) 180.2(b)(2) for altered space conditioning systems.

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats 110.2(b) & (c) 1, 120.2(a) 160.3(a)(2) & 141.0(b)(2) & 180.2(b)(2)	Shut-Off Controls 120.2(b) & 160.3(a)(2)	Isolation Controls 120.2(b) & 160.3(a)(2)	Demand Response 110.12-120.2(b) & 160.3(a)(2)	Supply Air Temp. Reset 140.4(f) & 170.2(b)(2)	Window Interclocks per 140.4(f) & 170.2(b)(2)
AC-11	Single zone	<= 25,000 ft²	Setback	Auto/Term Switch	N/A; Servers < 25k ft²	DR Total per 110.12	N/A; Alteration	N/A; Alteration Project
AC-13	Single zone	<= 25,000 ft²	Setback	Auto/Term Switch	N/A; Servers < 25k ft²	DR Total per 110.12	N/A; Alteration	N/A; Alteration Project

**FOOTNOTES: Gravitally gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, Infrared or decorative gas appliances, wood stoves are not required to have setback thermostats.*

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1, 120.2(b)(3) 140.4(g) and 140.4(f) for all nonresidential and hotel/motel and §121602(b)(3) 160.2, 170.2(b)(2), 170.2(b)(4) for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application shall be shown in this table. In lieu of this table, the required outdoor ventilation rates and airflow may be documented in the plans or the calculations can be presented in a spreadsheet.

Q1	<input type="checkbox"/>	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations, instead of completing this table.
Q2	<input checked="" type="checkbox"/>	Check this box if the project includes Nonresidential, Hotel/Motel/Spaces or Multifamily Common Use Spaces
Q3	<input type="checkbox"/>	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel/spaces to meet required ventilation rates per 120.1(c)(2).

Nonresidential and Hotel/ Motel Multifamily Common Use Ventilation Systems

Generated Date: 2/2/2023
 Report Version: 2022.0-0000
 Project Number: 2020-0010

Documentation Software: EnergyPro
 Compliance ID: EnergyPro-2023-05-01-0245

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
 Report Generated: 2023-05-01-0245

Compliance ID: EnergyPro-2023-05-01-0245

STATE OF CALIFORNIA MECHANICAL SYSTEMS		CALIFORNIA ENERGY COMMISSION NCC-CMCH2 (Page 2 of 14)	
CERTIFICATE OF COMPLIANCE Project Name: Golds City Hall		Report Page: Date Prepared: 5/9/2025	

C. COMPLIANCE RESULTS																	
Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicates as not compliant for guidance.																	
Q1	AND	Q2	AND	Q3	AND	Q4	AND	Q5	AND	Q6	AND	Q7	AND	Q8	AND	Q9	
System Summary 130.1, 130.2, 140.4, 170.2(c)		Pumps 140.4(a), 170.2(c)(4)		Fans/ Economizers 140.4(c), 140.4(d), 170.2(c)		System Controls 110.2, 120.2, 140.4(f), 170.2(c)		Ventilation 120.1, 160.2		Terminal Box Controls 140.4(b), 170.2(c)(4)		Distribution 130.3, 140.4(e), 160.2, 160.3		Cooling Towers 110.2(e)			Compliance Results
(See Table J)	(See Table J)	(See Table J)	(See Table J)	(See Table J)	(See Table J)	(See Table J)	(See Table J)	(See Table J)	(See Table J)	(See Table L)	(See Table L)	(See Table L)	(See Table L)	(See Table M)			
Yes	AND	Yes	AND	Yes	AND	Yes	AND	Yes	AND	Yes	AND	Yes	AND	Yes	AND	Yes	COMPLIES
Mandatory Measures Compliance (See Table Q for Details)																	

D. EXCEPTIONAL CONDITIONS	
This table is used to fill with voluntary 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.	

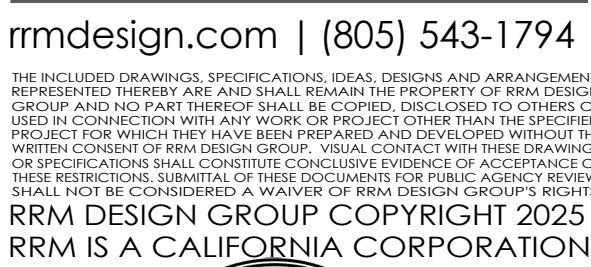
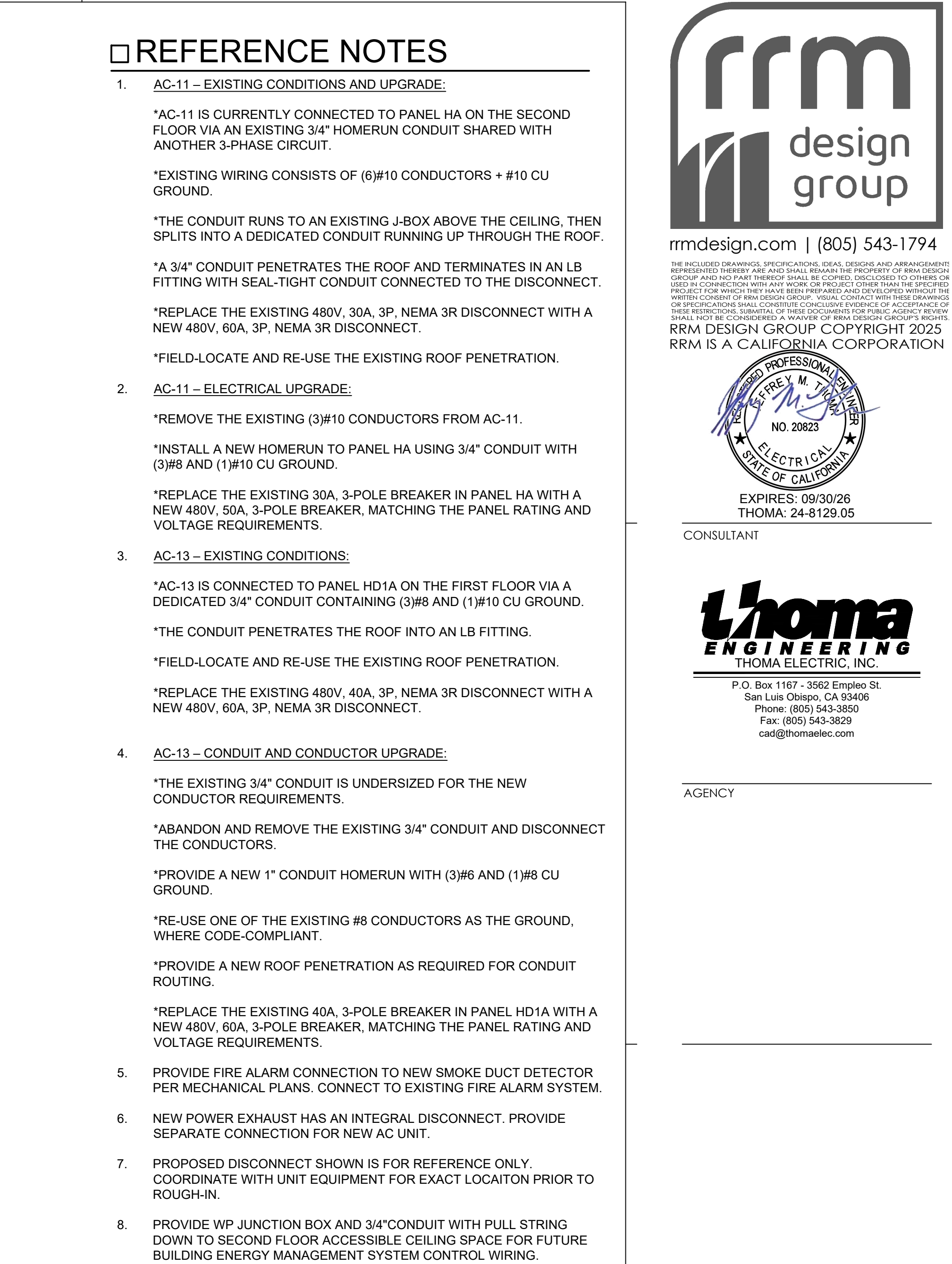
F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)					
Space Conditioning System Information					
Q1	Q2	Q3	Q4	Q5	Q6
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
AC-11	1	Single zone	New/ Addition		<input type="checkbox"/>
AC-13	1	Single zone	New/ Addition		<input type="checkbox"/>

CONSULTANT



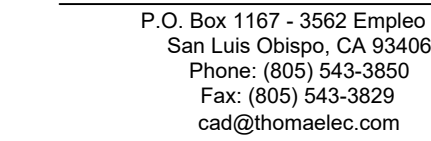
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EXPIRES: 09/30/26
THOMA: 24-8129.05

CONSULTANT



AGENCY

130 CREMONA DRIVE, GOLETA CA 93117

ELECTRICAL ROOF PLAN

PROJECT MANAGER	
CJ	
DRAWN BY	CHECKED BY
TR/CJ	CJ/JT
DATE	
AUGUST 25, 2025	
PROJECT NUMBER	
1806-03-PS24	
SHEET	

E-101

PLAN CHECK RE-SUBMITTAL

REFERENCE NOTES

1. PANEL HD1A CIRCUIT 19/21/23 FEED EXISTING ROOF MOUNTED AC-13. REPLACE THE EXISTING 40A, 3-POLE BREAKER WITH NEW 480V, 60A, 3-POLE BREAKER, MATCHING THE PANEL RATING AND VOLTAGE REQUIREMENTS. EXISTING PANEL AND BREAKER IS SQUARE D COMPANY.



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AGENCY

GOLETA CITY HALL - HVAC REPLACEMENT
130 CREMONA DRIVE, GOLETA CA 93117
ELECTRICAL FIRST FLOOR PLAN

NO.	REVISION	DATE
1		
2		
3		
4		
5		

PROJECT MANAGER	
DRAWN BY	CHECKED BY
TR/CJ	CJ/JT
DATE	
AUGUST 25, 2025	
PROJECT NUMBER	
1806-03-PS24	
SHEET	

E-201



1 ELECTRICAL FIRST FLOOR PLAN



- REFERENCE NOTES**
- EXISTING PANEL HA CIRCUIT 20/22/24 FEED EXISTING ROOF MOUNTED AC-11. REPLACE THE EXISTING 30A, 3-POLE BREAKER WITH NEW 400V, 50A, 3-POLE BREAKER, MATCHING THE PANEL RATING AND VOLTAGE REQUIREMENTS. EXISTING PANEL AND BREAKER IS SQUARE D COMPANY.
 - EXISTING FIRE ALARM SYSTEM. PROVIDE FIRE ALARM CONNECTION TO NEW SMOKE DUCT DETECTORS PER MECHANICAL PLANS.

rrm design group

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THOMAS ENGINEERING

EXPIRES: 09/30/26
THOMA: 24-8129.05

CONSULTANT

Thoma ENGINEERING

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San Luis Obispo, CA 93406
Phone: (805) 543-3850
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cad@thomalelec.com

AGENCY

GOLETA CITY HALL - HVAC REPLACEMENT

130 CREMONA DRIVE, GOLETA CA 93117

ELECTRICAL SECOND FLOOR PLAN

NO.	REVISION	DATE
1		
2		
3		
4		
5		

PROJECT MANAGER
CJ

DRAWN BY
TR/CJ

CHECKED BY
CJ/JT

DATE
AUGUST 25, 2025

PROJECT NUMBER
1806-03-PS24

SHEET
E-202

1 ELECTRICAL SECOND FLOOR PLAN

E-202 1/8" = 1'-0"