



FARMHOUSE

# ACCESSORY DWELLING UNIT - PLAN 6C

SAN LUIS OBISPO COUNTY, CA

## PROJECT GENERAL NOTES

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

APPLICABLE CODES AND 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 ELECTRICAL CODE AND ITS APPENDICES AND STANDARDS.
- 2022 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS.
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE AND ITS APPENDICES AND STANDARDS.

CURRENT COUNTY OF SAN LUIS OBISPO MUNICIPAL CODE.

## PROJECT DIRECTORY

\*FOR PLANNING STAFF ONLY

INITIAL WHEN SECTION HAS BEEN REVIEWED. STAFF INITIALS: \_\_\_\_\_

### APPLICANT (TO BE PROVIDED BY OWNER/APPLICANT)

ADDRESS: \_\_\_\_\_ PROJECT ADDRESS: \_\_\_\_\_

CONTACT: \_\_\_\_\_

EMAIL: \_\_\_\_\_

PHONE: \_\_\_\_\_

### ARCHITECT

ADDRESS: 3765 S HIGUERA ST., SUITE 102

SAN LUIS OBISPO, CA 93401

CONTACT: RANDY RUSSOM

EMAIL: RWRUSSOM@RMRDESIGN.COM

PHONE: P:(805) 543-1794

## SUPPORTING DOCUMENTS

\*FOR PLANNING STAFF ONLY

INITIAL WHEN SECTION HAS BEEN REVIEWED. STAFF INITIALS: \_\_\_\_\_

UTILITY, GRADING, AND DRAINAGE PLAN TO BE PROVIDED BY OTHERS.

PV SYSTEM: NOT REQUIRED. SYSTEM EXEMPTION < 1.80KWDC. SEE TITLE 24

PLEASE PROVIDE THE WASTE RECYCLE FORM FILLED OUT AND SIGNED PRIOR TO ISSUANCE. THE OWNER/APPLICANT/CONTRACTOR/PERSON DOING THE WORK IS REQUIRED TO RECYCLE 75% OF ALL PROJECT CONSTRUCTION AND DEMOLITION DEBRIS.

### ENERGY COMPLIANCE

PREPARED BY:

IN BALANCE GREEN CONSULTING

DATE PREPARED:

SEPTEMBER 27, 2023

JOB NUMBER:

CF1R-PRF-01E

**HERS QII:** HERS RATER WILL VERIFY THAT THE HOME'S INSULATION WAS INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS AND PER QUALITY INSULATION INSTALLATION (QII) PROTOCOL.

**HERS VCHP:** HERS RATER WILL NEED TO FOLLOW THE VERIFICATION AND TESTING PROTOCOL FOR THE VARIABLE CAPACITY HEAT PUMP CREDIT REQUIREMENTS, INCLUDING BUT NOT LIMITED TO, VERIFIED REFRIGERANT CHARGE, VERIFIED MINIMUM HSPF AND EER/SEER, AND CAPACITY; DUCTLESS INDOOR UNITS AND THE COMPONENTS ARE WITHIN THE CONDITIONED ENVELOPE; AND AIRFLOW PROVIDED TO ALL HABITABLE SPACES (BDOMS AND LIVING SPACE).

## SOILS & FOUNDATIONS

\*FOR PLANNING STAFF ONLY

INITIAL WHEN SECTION HAS BEEN REVIEWED. STAFF INITIALS: \_\_\_\_\_

NOTE: THESE PRE-APPROVED PLANS ARE INTENDED FOR FLAT LOTS, WITHOUT THE PRESENCE OF EXPANSIVE OR LIQUEFIABLE SOILS. THE BUILDING OFFICIAL SHALL MAKE THIS DETERMINATION PRIOR TO ISSUING THE PERMIT. A NOTE HAS BEEN ADDED TO THE FOUNDATION PLAN AND FOUNDATION NOTES TO CLEARLY OUTLINE THIS REQUIREMENT. PLEASE REFER TO GENERAL FOUNDATION NOTE 11 ON S6-102 AND FOUNDATION PLAN NOTE 17 ON S6-201.

## PROJECT INFORMATION

\*FOR PLANNING STAFF ONLY

INITIAL WHEN SECTION HAS BEEN REVIEWED. STAFF INITIALS: \_\_\_\_\_

### PROJECT SCOPE:

- CONSTRUCTION OF A NEW DETACHED ONE STORY 219 SF ACCESSORY DWELLING UNIT WITH 1 BEDROOM AND 1 BATH.
- ALL SITE WORK WITHIN THE PROPERTY LINE.
- ALL THE WORK SHOWN IN THE DRAWINGS AND SPECIFICATIONS.

### SITE INFORMATION (TO BE PROVIDED BY COUNTY OF SAN LUIS OBISPO):

STREET ADDRESS: \_\_\_\_\_

APN: \_\_\_\_\_

ZNING: \_\_\_\_\_

LOT SIZE: \_\_\_\_\_

LAND USE: \_\_\_\_\_

EXISTING USE: \_\_\_\_\_

PROPOSED USE: \_\_\_\_\_

### FLOOR AREA RATIO (TO BE PROVIDED BY COUNTY OF SAN LUIS OBISPO)

MAXIMUM FAR: \_\_\_\_\_

PROPOSED FAR: \_\_\_\_\_

### LOT COVERAGE (TO BE PROVIDED BY OWNER / APPLICANT)

BUILDING: \_\_\_\_\_

HARDSCAPE/PAVING: \_\_\_\_\_

LANDSCAPE: \_\_\_\_\_

### SETBACKS (TO BE PROVIDED BY COUNTY OF SAN LUIS OBISPO)

FRONT: \_\_\_\_\_ REQUIRED \_\_\_\_\_ PROPOSED \_\_\_\_\_

REAR: \_\_\_\_\_ 4' - 0" (A.B. NO. 86)

SIDES: \_\_\_\_\_ 4' - 0" (A.B. NO. 86)

### BUILDING INFORMATION:

NUMBER OF STORIES: \_\_\_\_\_ 1

OCCUPANCY GROUP: \_\_\_\_\_ R-3.1 & 2 FAMILY DWELLINGS

CONSTRUCTION TYPE: \_\_\_\_\_ VB

SPRINKLERED: \_\_\_\_\_ SEE FIRE SPRINKLER SECTION ON SHEET

IF YES, A SEPARATE REVIEW/PERMIT IS REQUIRED FOR AUTO SPRINKLER SYSTEM DESIGN (CRC R313.3)

MAX. HEIGHT ALLOWED: (PER CBC TABLE 504.3) \_\_\_\_\_ 16' - 0"

MAX. HEIGHT ALLOWED: (PER CALIFORNIA ASSEMBLY BILL NO. 86) \_\_\_\_\_ 16' - 0"

MAX. HEIGHT PROPOSED: \_\_\_\_\_

ROOF RATING: \_\_\_\_\_ REFER TO 'WILDLAND-URBAN INTERFACE FIRE

HIGH FIRE ZONE: \_\_\_\_\_ AREA' AND 'FIRE HAZARD SEVERITY ZONE LEVEL'

## UTILITIES

WATER AND SEWER SERVICE \_\_\_\_\_ COUNTY OF SAN LUIS OBISPO UTILITIES

ELECTRICAL SERVICE \_\_\_\_\_ PACIFIC GAS & ELECTRIC

GAS SERVICE \_\_\_\_\_ PACIFIC GAS & ELECTRIC

TELEPHONE SERVICE \_\_\_\_\_

GARBAGE SERVICE \_\_\_\_\_

CABLE SERVICE \_\_\_\_\_

## BUILDING AREAS

GROUND FLOOR PLAN DWELLING AREA \_\_\_\_\_ 219 SF

LOFT SLEEPING AREA \_\_\_\_\_ 94 SF

(OPTIONAL) COVERED PORCH \_\_\_\_\_ 75 SF

## PROJECT CHECKLIST

\*FOR PLANNING STAFF ONLY

INITIAL WHEN SECTION HAS BEEN REVIEWED. STAFF INITIALS: \_\_\_\_\_

### WASTE WATER

☐ SEWER

☐ SEPTIC

\*A SEPARATE REVIEW & PERMIT IS REQUIRED FOR SEPTIC.

### FIRE SPRINKLERS

DOES THE PRIMARY RESIDENCE HAVE NFPA 13D SPRINKLERS?

☐ NO

☐ YES

IF YES, A SEPARATE REVIEW & PERMIT IS REQUIRED FOR AUTOMATIC SPRINKLER SYSTEM DESIGN (CRC R313.3)

REQUIRED AT PROPOSED ADU: \_\_\_\_\_ COUNTY OF SAN LUIS OBISPO FIRE SPRINKLERS SYSTEM REQUIREMENTS FOR ADU BLD-3044

☐ NO

(NOT REQUIRED IF THE PRIMARY RESIDENCE IS UNSPRINKLERED)

☐ YES

(REQUIRED IF THE PRIMARY RESIDENCE IS SPRINKLERED)

### FIRE SPRINKLERS NOTES

- IF FIRE SPRINKLERS ARE REQUIRED AT PROPOSED ADU THEN THE FOLLOWING NOTES APPLY.

- AUTOMATIC FIRE SPRINKLER SYSTEM - AN AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE INSTALLED AS PER NFPA 13D THE MOST CURRENT EDITION. DETAILED SPRINKLER PLANS SHALL BE SUBMITTED TO THE FIRE PREVENTION BUREAU AND APPROVED PRIOR TO INSTALLATION. PLANS AND INSTALLATION MUST BE BY A C16 LICENSED SPRINKLER CONTRACTOR.

- SECTION 903.2.1.1 GROUP R AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3 SHALL BE PROVIDED THROUGHOUT ALL BUILDINGS WITH A GROUP R FIRE AREA. THIS INCLUDES SINGLE FAMILY DWELLINGS, MULTI-FAMILY DWELLINGS AND ALL RESIDENTIAL CARE FACILITIES REGARDLESS OF OCCUPANT LOAD.

- SECTION 903.2.1.1 ADDITIONS AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH 903.3 MAY BE REQUIRED TO BE INSTALLED THROUGHOUT STRUCTURES WHEN THE ADDITION IS MORE THAN 50% OF THE EXISTING BUILDING OR WHEN THE ALTERED BUILDING WILL EXCEED A FIRE FLOW OF 1,500 GALLONS PER MINUTE AS CALCULATED PER SECTION 907.3. THE FIRE CODE OFFICIAL MAY REQUIRE AN AUTOMATIC SPRINKLER SYSTEM BE INSTALLED IN BUILDINGS WHERE NO WATER MAIN EXISTS TO PROVIDE THE REQUIRED FIRE FLOW OR WHERE A SPECIAL HAZARD EXISTS SUCH AS: POOR ACCESS ROADS, GRADE, BLUFFS AND CANYON RIMS, HAZARDOUS BRUSH AND RESPONSE TIMES GREATER THAN 5 MINUTES BY A FIRE DEPARTMENT.

- SECTION 903.2.1.2 REMODELS OR RECONSTRUCTION AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3 MAY BE REQUIRED IF THE SCOPE OF WORK INCLUDES SIGNIFICANT MODIFICATION TO THE INTERIOR AND/OR ROOF OF THE BUILDING, AND THE COST OF THE INSTALLATION DOES NOT EXCEED 15 PERCENT OF THE CONSTRUCTION COSTS OF THE REMODEL.

- LOCATION AND SIZE OF WATER SERVICE UNDERGROUND SHALL BE INSTALLED AS SHOWN ON APPROVED FIRE SPRINKLER PLANS. A MINIMUM 1 INCH WATER SHALL BE INSTALLED.

- A FIRE UNDERGROUND FLUSH CERTIFICATION SHALL BE REQUIRED AT FINAL INSPECTION.

- A HYDRO INSPECTION OF THE FIRE SPRINKLER SYSTEM IS REQUIRED PRIOR TO FRAME INSPECTION. ONLY THE NEW PIPING SHALL BE TESTED.

### ONSITE PARKING REQUIRED

☐ NONE, EXCEPTION USED:

☐ THE ADU IS LOCATED WITHIN 1/2 MILE OF PUBLIC TRANSIT.

☐ OFF STREET PARKING PERMITS ARE REQUIRED BUT NOT OFFERED TO THE OCCUPANT OF THE ADU.

☐ WHEN THERE IS A CAR SHARE VEHICLE LOCATED WITHIN ONE BLOCK OF THE ADU.

☐ ONE PARKING SPACE (STUDIO OR 1-BEDROOM ADU)

☐ TWO PARKING SPACES (2-BEDROOM ADU)

### WILDLAND-URBAN INTERFACE FIRE AREA

- PORTIONS OF THE COUNTY OF SAN LUIS OBISPO COUNTY ARE LOCATED IN WITHIN THE WILDLAND-URBAN INTERFACE FIRE AREA (AS DEFINED BY CRC R337.2).
  - AREA DEFINED BY STATE AS A "FIRE HAZARD SEVERITY ZONE" (FHSZ).
  - AREA DESIGNATED BY ENFORCING AGENCY TO BE AT A SIGNIFICANT RISK FROM WILDFIRES.
- MORE INFORMATION ABOUT FIRE HAZARD SEVERITY ZONES, INCLUDING AN INTERACTIVE MAP, BUILDING MATERIALS LISTINGS, AND WUI REQUIREMENTS CAN BE FOUND ON THE OFFICE OF THE STATE FIRE MARSHAL WEBSITE (HTTPS://OSFM.FIRE.CA.GOV).
- AN ADU WITHIN THE WILDLAND-URBAN INTERFACE FIRE AREA SHALL COMPLY WITH THE CRC SECTION R337.
- THIS PROTOTYPE PLAN PROVIDES DESIGNS THAT COMPLY WITH THE PROVISIONS REQUIRED BY THE CRC SECTION R337.

### FIRE HAZARD SEVERITY ZONE LEVEL

☐ NONE

☐ MODERATE

☐ HIGH

☐ VERY HIGH

- IN ACCORDANCE WITH THE CFC SECTION 4904, STRUCTURES LOCATED IN THE VERY HIGH FIRE HAZARD SEVERITY ZONE SHALL PROVIDE & MAINTAIN A FUEL MODIFICATION ZONE. FUEL MODIFICATION ZONES: THE APPLICANT SHALL PROVIDE & MAINTAIN FIRE/FUEL BREAKS TO THE SATISFACTION OF THE LOCAL FIRE DEPARTMENT. FIRE/FUEL BREAKS SHALL BE SHOWN ON THE GRADING, MAP, AND BUILDING PLANS.

## OPTIONS SELECTIONS

\*OWNER OR APPLICANT REQUIRED TO PROVIDE SELECTIONS FOR EACH OF THE FOLLOWING CATEGORIES. ADDITIONALLY, OWNER/APPLICANT TO PROVIDE MANUFACTURER, COLOR/FINISH SPECIFICATIONS, & W.U.I. PRODUCT LISTING (WHEN APPLICABLE) IN THE MATERIALS LEGENDS.  
NOTE: OWNER/APPLICANT TO STRIKE THROUGH UNUSED OPTIONS & DETAILS THROUGHOUT THE PLAN SET FOR CLARITY.

FRONT PORCH (SELECT ONE) ☐ A) FRONT (COVERED) PORCH ☐ B) NO FRONT PORCH

RAKE & EAVE DETAILS (SELECT ONE) ☐ A) ENCLOSED ☐ B) OPEN EXPOSED

### EXTERIOR RAKES, EAVES, & PORCH SOFFITS & OVERHANGS MATERIALS (MARK ALL THAT APPLY)

☐ A) 2X TOUNGE & GROOVE (SOLID SAWN LUMBER)

☐ B) FIBER CEMENT SOFFIT PANELS

☐ C) HARDBOARD SOFFIT PANELS

☐ D) EXT. GRADE FIRE RETARDANT TREATED SHEATHING

### WALL COVERINGS (MARK ALL THAT APPLY)

NOTE: WALL COVERINGS TO MEET ALL REQUIREMENTS OF CRC R703.3 SEE CRC TABLE R703.3(7) FOR MIN. ATTACHMENT AND MIN. THICKNESS REQUIREMENTS.

☐ E) FIBER CEMENT - BOARD & BATTEN PATTERN

☐ F) VERTICAL EXT. GRADE WOOD SIDING - BOARD & BATTEN PATTERN

☐ G) FIBER CEMENT PANEL SIDING - HORIZONTAL PATTERN

☐ H) EXT. GRADE WOOD PANEL SIDING

EXTERIOR TRIM ELEMENTS (SELECT ONE) ☐ A) FIBER CEMENT ☐ B) EXT. GRADE WOOD

BASE TRIM 24/A-904 (SELECT ONE) ☐ A) YES ☐ B) NO

EXTERIOR LIGHT (SELECT ONE) ☐ A) GREAT OUTDOORS ☐ B) HAMPTON BAY

### DOOR MATERIAL (SELECT ONE)

☐ A) VINYL ☐ B) FIBERGLASS ☐ C) WOOD ☐ D) ALUMINUM CLAD WOOD

### WINDOW MATERIAL (SELECT ONE)

☐ A) VINYL ☐ B) FIBERGLASS ☐ C) WOOD ☐ D) ALUMINUM CLAD WOOD

GUARD RAIL REQUIRED (SELECT ONE) ☐ A) NO ☐ B) YES LABEL LOCATIONS ON PLANS

DECORATIVE SHUTTER (SELECT ONE) ☐ A) STANDARD CLOSED ☐ B) "Z" BAR ☐ C) NONE

DECORATIVE VENT (SELECT ONE) ☐ A) ROUND ☐ B) SQUARE ☐ C) NONE

## USER LICENSE AGREEMENT

BY USING THESE PERMIT READY ACCESSORY DWELLING UNIT CONSTRUCTION DOCUMENTS, THE USER AGREES TO RELEASE, HOLD HARMLESS, AND INDEMNIFY THE COUNTY OF SAN LUIS OBISPO, ITS ELECTED OFFICIALS AND EMPLOYEES, RRM DESIGN GROUP, AND THE ARCHITECT OR ENGINEER WHO PREPARED THESE CONSTRUCTION DOCUMENTS FROM ANY AND ALL CLAIMS, LIABILITIES, SUITS AND DEMANDS ON ACCOUNT OF ANY INJURY, DAMAGE OR LOSS TO PERSONS OR PROPERTY, INCLUDING INJURY OR DEATH, OR ECONOMIC LOSSES, ARISING OUT OF THE USE OF THESE CONSTRUCTION DOCUMENTS.

THE PLANS ATTACHED HERE ARE APPROVED FOR ONLY USE IN SAN LUIS OBISPO COUNTY. NO DEVIATIONS, ALTERATIONS, OR OPTIONS BEYOND THOSE SPECIFICALLY INDICATED IN THE PLANS ARE ALLOWED WITHOUT PRIOR APPROVAL BY THE ISSUING JURISDICTION AND CHIEF BUILDING OFFICIAL. ANY UNAPPROVED PLAN MODIFICATIONS MAY BE DEVELOPED THROUGH RRM DESIGN GROUP AND THE APPROVING JURISDICTION IF REQUIRED.

SIGNATURE

DATE

## SHEET INDEX

G-063 TITLE SHEET - PLAN 6C  
G-101 GENERAL NOTES  
G-102 INDEX, ABBREVIATIONS, & SYMBOLS  
G-103 2022 SINGLE-FAMILY RESIDENTIAL MANDATORY REQUIREMENTS  
G-201 CAL. GREEN RESIDENTIAL REQUIREMENTS  
G-202 CAL. GREEN RESIDENTIAL REQUIREMENTS

AS-106 ARCHITECTURAL SITE PLAN (EXAMPLE & INSTRUCTIONS)

A6-103 FLOOR PLAN  
A6-111 FINISH, MECHANICAL, & ELECTRICAL PLAN  
A6-123 ROOF PLAN & REFLECTED CEILING PLAN  
A6-203 ELEVATIONS & BUILDING SECTIONS

A-904 ARCHITECTURAL DETAILS - LOFT  
A-905 ARCHITECTURAL DETAILS - LOFT  
A-906 ARCHITECTURAL DETAILS - LOFT  
A-931 ARCHITECTURAL DETAILS - LOFT  
A-933 ARCHITECTURAL DETAILS - LOFT

S-101 SHEET INDEX, ABBREVIATIONS & SYMBOLS  
S-102 GENERAL NOTES  
S-103 GENERAL NOTES, SPECIAL INSPECTION & TESTS  
S-201 FARMHOUSE PLANS  
S-301 TYPICAL CONCRETE DETAILS  
S-311 CONCRETE DETAILS  
S-312 CONCRETE DETAILS  
S-401 TYPICAL WOOD DETAILS  
S-402 TYPICAL WOOD DETAILS  
S-403 TYPICAL WOOD DETAILS  
S-404 TYPICAL WOOD DETAILS  
S-411 FLOOR FRAMING DETAILS  
S-421 ROOF FRAMING DETAILS

T24 - 609 ENERGY COMPLIANCE - PLAN 6C  
T24 - 610 ENERGY COMPLIANCE - PLAN 6C  
T24 - 611 ENERGY COMPLIANCE - PLAN 6C  
T24 - 612 ENERGY COMPLIANCE - PLAN 6C  
T24 - 613 ENERGY COMPLIANCE - PLAN 6  
Grand total: 34

### SPECIAL INSPECTIONS REQUIRED

OWNER/APPLICANT HAS COMPLETED SPECIAL INSPECTION FORM

OWNER/APPLICANT SIGNATURE: \_\_\_\_\_

SEE SHEET S-103 FOR REQUIRED SPECIAL INSPECTIONS

A REGISTERED DESIGN PROFESSIONAL SHALL COMPLETE THE COUNTY OF SAN LUIS OBISPO STATEMENT OF REQUIRED SPECIAL INSPECTIONS CERTIFICATE (FORM BLD-1032) PRIOR TO PERMIT ISSUANCE. IDENTIFY THE TYPE OF WORK REQUIRING SPECIAL INSPECTIONS IN THE PLANS AND THE INDIVIDUALS OR FIRMS RESPONSIBLE FOR THE SPECIAL INSPECTION ELEMENT(S). FURTHER INSTRUCTIONS ARE IDENTIFIED IN THE STATEMENT OF SPECIAL INSPECTION AGREEMENT (FORM BLD-1031).

## VICINITY MAP

\*FOR PLANNING STAFF ONLY

INITIAL WHEN SECTION HAS BEEN REVIEWED. STAFF INITIALS: \_\_\_\_\_

(TO BE PROVIDED BY OWNER/APPLICANT)

COUNTY OF SAN LUIS OBISPO  
ACCESSORY DWELLING UNIT  
SAN LUIS OBISPO, CA

TITLE SHEET - PLAN 6C

DATE

11/28/2023

SHEET

G-063



## PROJECT GENERAL NOTES

- 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 PROCEEDING AT HIS/HER OWN RISK.
- DIMENSIONS SHOWN SHALL TAKE PRECEDENCE OVER DRAWING SCALE OR PROPORTION. LARGER SCALE DRAWINGS SHALL TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.
- 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 CONTRACTOR SHALL NOTIFY THE OWNER. THE FIND SHALL BE LEFT UNTOUCHED UNTIL AN EVALUATION BY A QUALIFIED ARCHAEOLOGIST OR PALEONTOLOGIST IS MADE.
- CONTRACTOR IS TO BE RESPONSIBLE FOR BEING FAMILIAR WITH THESE DOCUMENTS INCLUDING ALL CONTRACT REQUIREMENTS.
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
- FIRE SPRINKLER SHOP DRAWINGS & CALCULATIONS SHALL BE SUBMITTED TO BUILDING DEPT. & APPROVED BY FIRE DEPT. PRIOR TO INSTALLATION.
- SHOP WELDS MUST BE PERFORMED BY A LICENSED FABRICATORS SHOP.
- THE FOLLOWING ITEMS SHOWN ON THE DRAWINGS ARE OWNER PROVIDED, OWNER INSTALLED. UTILITIES PROVIDED FOR THESE ITEMS WILL BE PROVIDED BY THE CONTRACTOR. CONTRACTOR TO COORDINATE INSTALLATION WITH OWNER.
- TV/DVD SYSTEMS
- ICE MACHINE
- VENDING MACHINE
- REFRIGERATOR
- MICROWAVE
- OSHA PERMITS REQUIRED FOR VERTICAL CUTS 5' OR OVER.
- CONTRACTOR TO PROVIDE COMPLETE DETAILS OF ENGINEERED TEMPORARY SHORING OR SLOT CUTTING PROCEDURES ON PLANS. CALL FOR INSPECTION BEFORE EXCAVATION BEGINS.
- 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.
- CONTRACTOR TO REVIEW CALIFORNIA GREEN CODE REQUIREMENTS FOR CONTRACTOR REQUIREMENTS.
- A SEPARATE OFFICER, ACCESS EASEMENT/AGREEMENT, AND/OR RECIPROCAL 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.
- PROVIDE FIRE ALARM SYSTEM. FIRE ALARM SYSTEM SHALL ACTIVATE UPON FIRE SPRINKLER SYSTEM OPERATION

## SITE NOTES

- CALL BEFORE YOU DIG!** CONTACT UNDERGROUND SERVICE ALERT (USA) AT 1-800-227-2600 AT LEAST 2 WORKING DAYS BEFORE EXCAVATING.
- UNLESS OTHERWISE NOTED ON THE PLANS, FINISHED GROUND SURFACES SHALL BE GRADED TO DRAIN THE FINISHED SITE PROPERLY WITHIN 10-FEET OF ANY BUILDING FOUNDATION WITH A SLOPE OF 5% AWAY FROM ANY BUILDING OR STRUCTURE. ALL EXTERIOR HARDSCAPE WITHIN 10-FEET OF A BUILDING FOUNDATION SHALL BE INSTALLED WITH A 2% MINIMUM SLOPE AWAY FROM ANY BUILDING OR STRUCTURE. DRAINAGE SWALES SHALL BE A 1.5% MINIMUM SLOPE. ALL GRADED SLOPES SHALL HAVE A MAXIMUM SLOPE OF 3H TO 1V (33%), UNLESS SHOWN OTHERWISE ON THE PLANS.
- LOT GRADING SHALL CONFORM AT THE PROPERTY LINES AND SHALL NOT SLOPE TOWARD PROPERTY LINES IN A MANNER WHICH WOULD CAUSE STORM WATER TO FLOW ONTO NEIGHBORING PROPERTY. HISTORIC DRAINAGE PATTERNS SHALL NOT BE ALTERED IN A MANNER TO CAUSE DRAINAGE PROBLEMS TO NEIGHBORING PROPERTY.
- NEW RAINWATER DOWNSPOUTS SHALL BE DISCONNECTED AND DIRECT RUNOFF TO A LANDSCAPED AREA. DOWNSPOUTS MAY BE CONNECTED TO A POP-UP DRAINAGE EMITTER IN THE LANDSCAPED AREA OR MAY DRAIN TO SPLASH BLOCKS OR COBBLESTONES THAT DIRECT WATER AWAY FROM THE BUILDING.
- CONTRACTOR TO FIELD VERIFY EXISTING DRAINAGE. IF THE EXISTING DRAINAGE SYSTEM IS DAMAGED DURING EXCAVATION, CONTRACTOR SHALL REPAIR AND/OR REROUTE DRAINAGE SYSTEM AND CONNECT TO EXISTING DRAINAGE FACILITY AS NECESSARY.
- EXISTING PUBLIC IMPROVEMENTS THAT ARE DAMAGED BY THE PROJECT CONSTRUCTION SHALL BE REPAIRED OR REPLACED. EXISTING DAMAGED PUBLIC IMPROVEMENTS WITHIN THE PROJECT LIMITS SHALL BE REPAIRED OR REPLACED EVEN IF THE DAMAGE OCCURRED PRIOR TO THE START OF CONSTRUCTION.
- EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE INSTALLED PRIOR TO OCTOBER 1 AND SHALL BE MAINTAINED DAILY UNTIL APRIL 30. THESE FACILITIES SHALL CONTROL AND CONTAIN EROSION-CAUSED SILT DEPOSITS AND PROVIDE FOR THE SAFE DISCHARGE OF SILT-FREE STORM WATERS INTO EXISTING STORM DRAIN FACILITIES. EROSION AND SEDIMENT CONTROL SUPPLIES MUST BE KEPT ON-SITE DURING THE DRY SEASON AND EMPLOYED, AS NECESSARY PRIOR TO AND DURING RAIN EVENTS.
- SEASONALLY APPROPRIATE BEST MANAGEMENT PRACTICES FOR THE FOLLOWING SITE MANAGEMENT CATEGORIES MUST BE IMPLEMENTED YEAR-ROUND: 1) EROSION CONTROL; 2) RUN-ON AND RUN-OFF CONTROL; 3) SEDIMENT CONTROL; 4) GOOD SITE MANAGEMENT; AND 5) NON-STORMWATER MANAGEMENT.
- AN ENCROACHMENT PERMIT WILL BE REQUIRED FOR ANY CONSTRUCTION ACTIVITY WITHIN A PUBLIC STREET RIGHT OF WAY THAT HAS BEEN ACCEPTED BY THE CITY/COUNTY.

## FLOOR PLAN NOTES

- WATER HEATER** (REFER TO BUILDING ENERGY ANALYSIS REPORT):
  - ALL DOMESTIC HOT WATER PIPING SHALL BE INSULATED. (2022 CPC 609.12.1)
    - PIPES UP TO 2 INCHES IN DIAMETER: INSULATION WALL THICKNESS NOT LESS THAN DIAMETER OF PIPE. (2022 CPC 609.12.2)
    - PIPES GREATER THAN 2 INCHES IN DIAMETER: INSULATION WALL THICKNESS NOT LESS THAN 2 INCHES. (2022 CPC 609.12.2)
  - EXCEPTIONS:**
    - PIPING THAT PENETRATES FRAMING MEMBERS SHALL NOT BE REQUIRED TO HAVE PIPE INSULATION FOR THE DISTANCE OF THE FRAMING PENETRATION. (2022 CPC 609.12.2)
    - HOT WATER PIPING BETWEEN THE FUTURE CONTROL VALVE OR SUPPLY STOP AND THE FUTURE OR APPLANCE SHALL NOT BE REQUIRED TO BE INSULATED. (2022 CPC 609.12.2)
  - PROVIDE A TEMPERATURE AND PRESSURE RELIEF VALVE WITH A FULL SIZE DRAIN OF GALVANIZED STEEL OR HARD DRAWN COPPER TO THE OUTSIDE OF THE BUILDING WITH THE END OF THE PIPE PROTRUDING 6" MINIMUM @ 2' MAX. ABOVE GRADE POINTING DOWNWARD TO THE TERMINATION - UNTHREADED.
  - COMBUSTION AIR PER MANUFACTURE REQUIREMENTS.
  - CLEARANCES PER MANUFACTURE REQUIREMENTS.
- INSULATION FOR PIPING AND TANKS** (2022 CEC 105.0(i)):
  - WATER PIPING:** FOR WATER-HEATING SYSTEM PIPING, AND SPACE-CONDITIONING SYSTEM LINE INSULATION THICKNESS AND CONDUCTIVITY, PIPING SHALL BE INSULATED AS FOLLOWS:
    - DOMESTIC HOT WATER PIPING. SEE NOTES ABOVE.
    - PIPING FOR SPACE-CONDITIONING SYSTEMS, SOLAR WATERHEATER SYSTEM COLLECTOR LOOP, SEE 2022 CEC SECTION 120.3(c).
  - EXCEPTION:**
    - PIPING SURROUNDED WITH A MINIMUM OF 1 INCH OF WALL INSULATION, 2 INCHES OF CRAWLSPACE INSULATION, OR 4 INCHES OF ATTIC INSULATION SHALL NOT BE REQUIRED TO HAVE PIPE INSULATION.
  - INSULATION PROTECTION:** PIPE INSULATION SHALL BE PROTECTED FROM DAMAGE DUE TO SUNLIGHT, MOISTURE, EQUIPMENT MAINTENANCE AND WIND. PROTECTION SHALL, AT MINIMUM, INCLUDE THE FOLLOWING (2022 CEC SECTION 120.3(b)):
    - PIPE INSULATION EXPOSED TO WEATHER SHALL BE PROTECTED BY A COVER SUITABLE FOR OUTDOOR SERVICE. THE COVER SHALL BE WATER RETARDANT AND PROVIDES SHIELDING FROM SOLAR RADIATION THAT CAN CAUSE DEGRADATION OF THE MATERIAL. ADHESIVE TAPE SHALL NOT BE USED TO PROVIDE THIS PROTECTION.
    - PIPE INSULATION COVERING CHILLED WATER PIPING AND REFRIGERANT SUCTION PIPING LOCATED OUTSIDE THE CONDITIONED SPACE SHALL INCLUDE, OR BE PROTECTED BY, A CLASS I OR CLASS II VAPOR RETARDER. ALL PENETRATIONS AND JOINTS SHALL BE SEALED.
    - PIPE INSULATION BURIED BELOW GRADE MUST BE INSTALLED IN A WATER PROOF AND NONCRUSHABLE CASING OR SLEEVE.
- WEATHER BARRIERS.**
  - A NOT FEWER THAN ONE-LAYER WATER-RESISTIVE BARRIER SHALL BE APPLIED OVER STUDS OR SHEATHING OF ALL EXTERIOR WALLS CONTINUOUS FROM TOP OF WALLS AND TERMINATED AT PENETRATIONS AND BUILDING APPENDAGES WITH FLASHING. MINIMUM NO. 15 FELT COMPLYING WITH ASTM D226, TYPE 1.
  - PIPING (2) LAYERS OF GRADE D PAPER OR EQUAL WHEN PLASTER IS INSTALLED OVER WOOD BASED SHEATHING. (2022 CRC R703.7.3)
- DOMESTIC RANGE:** VENTILATION DUCTS SHALL HAVE SMOOTH INTERIOR SURFACES. (2022 CMC 504.3)
- CLOTHES DRYER** MOISTURE EXHAUST DUCTS SHALL TERMINATE OUTSIDE THE BUILDING AND HAVE A BACK-DRAFT DAMPER. EXHAUST DUCT IS LIMITED TO 14'-0" W/ TWO ELBOWS. THIS SHALL BE REDUCED 2'-0" FOR EVERY ELBOW IN EXCESS OF TWO. MIN. DIA. 4", SMOOTH, METAL DUCT. (2022 CMC 504.4)
- ALL MANUFACTURED EQUIPMENT** SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATION AND DIMENSIONS VERIFIED WITH INSTALLATION REQUIREMENTS. ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS SHOULD BE ON SITE FOR INSPECTIONS.
- SHOWERS AND TUB SHOWERS:** COMBINATION TUBS MUST BE PRESSURE BALANCED OR THERMOSTATIC MIXING VALVES. (2022 CPC 417.0.)
- WET-ROOM GLAZING.** PROVIDE TEMPERED GLAZING IN DOORS AND ENCLOSURES FOR SHOWERS, BATHTUBS, SAUNAS, STEAM ROOMS, HOT TUBS & SIMILAR USES WHERE THE BOTTOM EXPOSED EDGE IS LESS THAN 60-INCHES ABOVE A STANDING SURFACE. (2022 CRC R308.4.5)
- HEATING AND AIR-CONDITIONING SYSTEM DESIGN** SHALL CONFORM TO CALGREEN SEC. 4.507, ENVIRONMENTAL CONFORMT.
- WATER CLOSETS.**
  - CLEARANCES: 24" MIN. FRONT, 30" MIN COMPARTMENT WIDTH.
  - PROVIDE A MIN 3 SF WINDOW, 1/2 OF WHICH SHALL BE OPENABLE OR AN EXHAUST FAN 50 CFM FOR INTERMITTENT OR 20 CFM FOR CONTINUOUS DIRECT VENT TO OUTSIDE WITH BACKDRAFT DAMPER. (2022 CRC R303.3)
  - NEW WATER CLOSETS AND ASSOCIATED FLUSHMETER VALVES, IF ANY SHALL USE NO MORE THAN 1.28 GALLONS PER FLUSH AND SHALL MEET PERFORMANCE STANDARDS ESTABLISHED BY THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS STANDARD A112.19.2. H & S CODE, SECTION 17921.3(b).
- BATH ACCESSORIES:** PROVIDE MINIMUM 1 TOILET PAPER HOLDER AND 1 TOWEL BAR PER BATHROOM. PROVIDE NECESSARY BLOCKING FOR TOILET PAPER HOLDER AND TOWEL BARS.
- WHOLE-BUILDING MECHANICAL VENTILATION SYSTEM** PER ASHRAE STANDARD 62.2. PROVIDE THE COUNTY INSPECTOR THE FOLLOWING INFORMATION AT OR BEFORE THE TIME OF INSPECTION:
  - CALCULATIONS FOR REQUIRED VENTING RATES.
  - CALCULATION ADJUSTMENTS FOR INTERMITTENT SYSTEMS IF APPLICABLE.
  - DUCT DIAMETER AND MAXIMUM DUCT LENGTH PER ASHRAE 62.2 TABLE 7.1.
  - TYPE OF SYSTEM USED AND PROVIDE COMPLETED CF-6R-MECH-05 FORM.
  - FANS SHALL BE A MAXIMUM OF 1 SONE.
  - FANS SHALL BE PROVIDED A COVER OR R-4.2 WHEN OFF.
- ATTIC ACCESS:**
  - PROVIDE 30" MIN. HEADROOM IN THE ATTIC SPACE (2019 CRC R807.1)
  - IN ATTIC, PROVIDE LIGHT AND SWITCH, AND ALL NECESSARY ELECTRICAL. PROVIDE UNOBSTRUCTED PASSAGEWAY 24" WIDE OF SOLID CONTINUOUS FLOORING FROM ACCESS TO EQUIPMENT AND ITS CONTROLS. ALSO PROVIDE UNOBSTRUCTED WORK SPACE IN FRONT OF EQUIPMENT 30" DEPTH MINIMUM. PROVIDE COMBUSTION AIR AND CONDENSATE LINE TO OUTSIDE OR AN APPROVED DRAIN FOR OPTIONAL AIR CONDITIONING.
  - BUILDINGS WITH COMBUSTIBLE CEILING OR ROOF CONSTRUCTION SHALL HAVE AN ATTIC ACCESS OPENING TO ATTIC AREAS THAT EXCEED 30 SQUARE FEET AND HAVE A VERTICAL HEIGHT OF 30-INCHES OR GREATER. THE VERTICAL HEIGHT SHALL BE MEASURED FROM TOP OF THE CEILING FRAMING MEMBERS TO THE UNDERSIDE OF THE ROOF FRAMING MEMBERS.
  - THE ROUGH-FRAMED OPENING SHALL NOT BE LESS THAN 22" X 30" AND SHALL BE LOCATED NOT OVER 20 FEET FROM THE EQUIPMENT. (2022 CRC R807.1)
  - PROVIDE A 120V RECEPTACLE AND A LIGHT NEAR THE EQUIPMENT WITH LIGHT SWITCH LOCATED AT THE ATTIC ACCESS.

## ELECTRICAL NOTES

- CONFORM WITH CURRENT CEC, NFPA, MFR'S, AND LOCAL REQUIREMENTS.
- ELECTRICAL SYSTEMS, DOMESTIC AND SERVICE, SHALL BE PROVIDED PER NEC ARTICLE 250-81.
- ALL MATERIALS TO BE UL Labeled.
- METER: "SQUARE D", 120 VOLT/ 240 VOLT, 1 AND 3 WIRE GROUND OR EQUAL.
- ELECTRICAL SUB PANEL: FLUSH MOUNT, 30" CLEARANCE, 100 AMP.
- CONDUCTORS: TW, THW, COPPER, MINIMUM 14 AT LIGHTING, 12 AT OTHER CIRCUITS.
- LAMPS: FOR GENERAL LIGHTING IN KITCHENS AND BATH SHALL HAVE AN EFFICIENCY OF NOT LESS THAN 40 LUMENS/ WATT. ALL SOCKETS FILLED WITH SOFT-WHITE, 55 WATT FLUORESCENT: COOL WHITE, RS, SOUND RATING "A", 70" (U.O.N.).
- 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.
- ALL BATHROOM RECEPTACLE OUTLETS SHALL BE SUPPLIED BY A MINIMUM OF ONE 120-VOLT, 20-AMPERE BRANCH CIRCUIT. SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS. THIS DEDICATED CIRCUIT MAY SERVE MORE THAN ONE BATHROOM. (2022 CEC 210.11(C))
- PROVIDE ELECTRIC OUTLET AND PUSH-BUTTON WIRE FOR GARAGE OPENER (INCLUDE OPENER).
- WATERMIST SHALL BE A PROGRAMMABLE TYPE, HONEYWELL TH8320 OR EQUAL.
- RECESSED LUMINAIRES INSTALLED IN AREAS TO RECEIVE INSULATION SHALL BE "IC" LUMINAIRES AND ARE CERTIFIED AND LABELED AS AIRTIGHT TO THE STANDARDS PRESCRIBED BY THE RESIDENTIAL ENERGY CODE.
- CEILING SUSPENSION (PADDLES) FAN 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 2022 CEC 314.27(C) (2022 CEC 422.18).
- ALL LUMINAIRES, LAMPHOLDERS, AND RETROFIT KITS SHALL BE LISTED (2022 CEC 404.1)
- ALL 120-VOLT, SINGLE PHASE 15- AND 20- AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, LIVING ROOMS, DINING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS 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. (2022 CEC 210-12(A)).
- ALL NON-LOCKING TYPE 125-VOLT, 15 AND 20 AMPERE RECEPTACLES IN A DWELLING UNIT SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES. EXCEPTIONS: (1) RECEPTACLES MORE THAN 6'8" ABOVE THE FLOOR, (2) RECEPTACLES PART OF A LUMINAIRE OR APPLIANCE, (3) A SINGLE RECEPTACLE OR A DUPLEX RECEPTACLE FOR TWO APPLIANCES THAT ARE NOT EASILY MOVED AND LOCATED WITHIN DEDICATED SPACE AND ARE CHORD-AND-PLUG CONNECTED AS PER CEC 400.7, AND (4) NON-GROUNDING RECEPTACLES USED FOR REPLACEMENTS AS PERMITTED IN CEC 408.4(D)(2)(A).
- HIGH EFFICACY LUMINAIRES OTHER THAN OUTDOOR HID LIGHTING CONTAIN ONLY ONLY HIGH EFFICACY LAMPS AS OUTLINED IN TABLE 150-C OF THE RESIDENTIAL ENERGY CODE AND NOT CONTAIN A MEDIUM SCREW BASE SOCKET.
- BALLAST FOR LAMPS 13 WATTS OR GREATER SHALL BE ELECTRONIC AND HAVE AN OUTPUT FREQUENCY NO LESS THAT 20 KHz.
- SMOKE DETECTORS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING AND PROVIDED WITH A BATTERY BACK-UP. ALL SMOKE DETECTORS SHALL BE INTERCONNECTED. ALL SMOKE DETECTORS SHALL MAINTAIN A MINIMUM 3 FOOT CLEARANCE TO HVAC SUPPLY OR RETURN AIR REGISTERS.
- CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING AND PROVIDED WITH A BATTERY BACK-UP. ALL CARBON MONOXIDE ALARMS SHALL BE INTERCONNECTED.
- LIGHTS IN OTHER THAN KITCHENS, BATHROOMS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS MUST BE CONTROLLED BY A DIMMER OR CONTROLLED BY A MANUAL-ON OCCUPANT SENSOR. SUCH SENSORS SHALL BE CAPABLE OF AUTOMATICALLY TURNING OFF THE LIGHTS NO MORE THAN 30 MINUTES AFTER THE AREA HAS BEEN VACATED.
- EXHAUST FANS WILL BE CONTROLLED BY A HUMIDISTAT PER THE GREEN BUILDING STANDARDS CODE SECTION 4.508. EXHAUST FANS MUST BE SWITCHED SEPARATELY FROM LIGHTS (CecC 150.0(k)(2)).
- OUTDOOR LIGHTING PERMANENTLY MOUNTED TO A RESIDENTIAL BUILDING OR TO OTHER BUILDINGS ON THE SAME LOT SHALL BE HIGH EFFICACY AND MUST MEET THE REQUIREMENTS IN ITEM I AND THE REQUIREMENTS IN EITHER ITEM II OR ITEM III:
  - i) CONTROLLED BY A MANUAL ON AND OFF SWITCH THAT PERMITS THE AUTOMATIC ACTIONS OF ITEMS II OR III BELOW; AND
  - ii) CONTROLLED BY A PHOTOCELL AND EITHER A MOTION SENSOR OR AN AUTOMATIC TIME SWITCH CONTROL' OR
  - iii) CONTROLLED BY AN ASTRONOMICAL TIME CLOCK CONTROL.
- NOTE: CONTROLS THAT OVERRIDE TO ON SHALL NOT BE ALLOWED UNLESS THE OPERATOR AUTOMATICALLY RETURNS THE AUTOMATIC CONTROL TO ITS NORMAL OPERATION WITHIN 6 HOURS. AN ENERGY MANAGEMENT CONTROL SYSTEM THAT PROVIDES THE SPECIFIED LIGHTING CONTROL FUNCTIONALITY AND COMPLIES WITH ALL REQUIREMENTS APPLICABLE TO THE SPECIFIED CONTROLS MAY BE USED TO MEET THESE REQUIREMENTS.

- AT LEAST ONE LUMINAIRE EACH BATHROOM, LAUNDRY ROOM, AND UTILITY ROOM SHALL BE CONTROLLED BY A MANUAL ON/AUTOMATIC-OFF VACANCY SENSOR.
- EXCEPT FOR CLOSETS LESS THAN 70 SQUARE FEET AND HALLWAYS, ALL LUMINAIRES THAT ARE INSTALLED WITH JA8-CERTIFIED LIGHT SOURCES ARE REQUIRED TO BE CONTROLLED BY EITHER A DIMMER, VACANCY SENSOR OR FAN SPEED CONTROL.

## PLUMBING NOTES

- CONFORM WITH CURRENT CPC AND LOCAL REQUIREMENTS.
- PIPING:
  - APPROVED EQUAL
  - GAS, EXPOSED TO WEATHER: GALVANIZED
  - AIR CHAMBERS: 12" LONG CAPPED NIPPLE AT END OF EACH BRANCH TO EACH FIXTURE.
  - BUILDINGS WITH JOINTS "F.P.C.O.": REQUIREMENT AT ALL DISSIMILAR MATERIAL CONNECTIONS.
  - WHEN "OPTIONAL" SOFT-WATER LOOP INTALLED, PROVIDE WITH 2 GATE VALVES.
- WATER SERVICE PIPE SHALL BE PER CIVIL PLANS OR AS REQUIRED BY THE JURISDICTION.
- WATER METER: PER WATER DISTRICT (REFER SIZE W/ FIRE SPRINKLER PLANS IF APPLICABLE)
- SHOWER HEADS AND FAUCETS: FLOW RATES PER 2022 CGBSC SECTION 4.303.
- PIPE INSULATION: REFER TO TITLE 24 - MANDATORY MEASURES - "SPACE CONDITIONING, WATER HEATING & PLUMBING SYSTEM MEASURES"
- STRAPS AND HANGERS: PROVIDE AS NECESSARY TO INSURE A STABLE INSTALLATION. SEE TITLE-24 FOR WATER HEATER REQUIREMENTS.
- ALL HOSE BIBS SHALL HAVE APPROVED BACK FLOW PREVENTION DEVICES. PLUMBING FIXTURES (WATER CLOSETS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL MEET THE STANDARDS REFERENCED IN CALGREEN TABLE 4.303.3.
- WATER HEATER SHALL BE PROVIDED WITH A TEMPERATURE AND PRESSURE RELIEF VALVE. PER [2022 CPC 505.2] THE RELIEF VALVE SHALL BE PROVIDED WITH A DRAIN LINE WHICH EXTENDS FROM THE VALVES TO THE OUTSIDE OF THE BUILDING. PER (2022 608.5 CPC)
- PER 2022 CPC 603.5.7 OUTLETS WITH HOSE ATTACHMENTS, POTABLE WATER OUTLETS WITH HOSE ATTACHMENTS, OTHER THAN WATER HEATER DRAINS, BOLLER DRAINS, AND CLOTHES WASHER CONNECTIONS, SHALL BE PROTECTED BY A NONREMOVABLE HOSE BIBB TYPE BACKFLOW PREVENTER. A NONREMOVABLE HOSE BIBB TYPE VACUUM BREAKER, OR BY AN ATMOSPHERE VACUUM BREAKER INSTALLED NOT LESS THAN 6 INCHES ABOVE THE HIGHEST POINT OF USAGE LOCATED ON THE DISCHARGE SIDE OF THE LAST VALVE, IN CLIMATES WHERE FREEZING TEMPERATURES OCCUR, A LISTED SELF DRAINING FROST-PROOF HOSE BIBB WITH AN INTEGRAL BACKFLOW PREVENTER OR VACUUM BREAKER SHALL BE USED.

## MECHANICAL NOTES

- CONFORM WITH CURRENT ADOPTED CRC, CMC, SMACNA, NFPA AND LOCAL REQUIREMENTS.
- DUCTWORK: SMACNA "LOW VELOCITY DUCT CONSTRUCTION" NFPA STANDARD #90A. ALL TRANSVERSE DUCT PLENUM AND FITTING JOINTS SHALL BE SEALED WITH PRESSURE SENSITIVE NON-CLOTH TAPE MEETING THE REQUIREMENTS OF UL181, 181A, OR 181B, OR MASTIC TO PREVENT AIR LOSS. DUCTS SHALL BE INSULATED AS REQUIRED BY THE UMC. SEE FLOOR PLAN FOR F.A.U. AND FIREPLACES. DUCTS PENETRATING A WALL OR FLOOR-CEILING BETWEEN GARAGE & DWELLING TO BE MINIMUM 26 GAUGE METAL WITHOUT OPENING IN GARAGE. FIRE DAMPER REQUIRED OTHERWISE.
- GRILLS AND REGISTERS, DIFFUSERS, ETC.: SUBJECT TO OWNERS APPROVAL. "CARNES" OR EQUAL FANS: DIRECTLY VENTED TO OUTSIDE. BACK DRAFT DAMPERS ARE REQUIRED (PER TABLE 2-53V, TITLE 24 C.A.C.).
- THE RETURN AIR PLENUM SERVING THE MECHANICAL EQUIPMENT MUST BE FULLY DUCTED FROM THE EQUIPMENT TO THE CONDITIONED SPACE. DROP CEILINGS, WALL CAVITIES AND EQUIPMENT PLATFORMS MAY NOT BE USED AS PLENUMS.
- LAUNDRY DRYER VENT TO EXTERIOR TO BE 14 FEET MAXIMUM, LESS 2 FEET PER 90 DEGREE TURN PER CMC 504.3.2.2. IF VENT IS OVER 14' AN APPROVED POWER ASSISTED DEVICE IS REQUIRED.
- BATHROOM EXHAUST FANS (BATHROOM APPLIES TO ROOMS CONTAINING BATHTUB, SHOWER, OR TUB/SHOWER COMBINATION) WHICH EXHAUST DIRECTLY FROM BATHROOMS SHALL COMPLY WITH THE FOLLOWING (2022 CGBSC SEC. 4.506.1):
  - FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING MIN 3' FROM OPENINGS.
  - CEILING SUSPENSION (PADDLES) FAN 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 2022 CEC 314.27(C) (2022 CEC 422.18).
  - ALL LUMINAIRES, LAMPHOLDERS, AND RETROFIT KITS SHALL BE LISTED (2022 CEC 404.1)
- ALL 120-VOLT, SINGLE PHASE 15- AND 20- AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT KITCHENS, FAMILY ROOMS, LIVING ROOMS, DINING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS 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. (2022 CEC 210-12(A)).
- ALL NON-LOCKING TYPE 125-VOLT, 15 AND 20 AMPERE RECEPTACLES IN A DWELLING UNIT SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES. EXCEPTIONS: (1) RECEPTACLES MORE THAN 6'8" ABOVE THE FLOOR, (2) RECEPTACLES PART OF A LUMINAIRE OR APPLIANCE, (3) A SINGLE RECEPTACLE OR A DUPLEX RECEPTACLE FOR TWO APPLIANCES THAT ARE NOT EASILY MOVED AND LOCATED WITHIN DEDICATED SPACE AND ARE CHORD-AND-PLUG CONNECTED AS PER CEC 400.7, AND (4) NON-GROUNDING RECEPTACLES USED FOR REPLACEMENTS AS PERMITTED IN CEC 408.4(D)(2)(A).
- HIGH EFFICACY LUMINAIRES OTHER THAN OUTDOOR HID LIGHTING CONTAIN ONLY ONLY HIGH EFFICACY LAMPS AS OUTLINED IN TABLE 150-C OF THE RESIDENTIAL ENERGY CODE AND NOT CONTAIN A MEDIUM SCREW BASE SOCKET.
- BALLAST FOR LAMPS 13 WATTS OR GREATER SHALL BE ELECTRONIC AND HAVE AN OUTPUT FREQUENCY NO LESS THAT 20 KHz.
- SMOKE DETECTORS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING AND PROVIDED WITH A BATTERY BACK-UP. ALL SMOKE DETECTORS SHALL BE INTERCONNECTED. ALL SMOKE DETECTORS SHALL MAINTAIN A MINIMUM 3 FOOT CLEARANCE TO HVAC SUPPLY OR RETURN AIR REGISTERS.
- CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING AND PROVIDED WITH A BATTERY BACK-UP. ALL CARBON MONOXIDE ALARMS SHALL BE INTERCONNECTED.
- LIGHTS IN OTHER THAN KITCHENS, BATHROOMS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS MUST BE CONTROLLED BY A DIMMER OR CONTROLLED BY A MANUAL-ON OCCUPANT SENSOR. SUCH SENSORS SHALL BE CAPABLE OF AUTOMATICALLY TURNING OFF THE LIGHTS NO MORE THAN 30 MINUTES AFTER THE AREA HAS BEEN VACATED.
- EXHAUST FANS WILL BE CONTROLLED BY A HUMIDISTAT PER THE GREEN BUILDING STANDARDS CODE SECTION 4.508. EXHAUST FANS MUST BE SWITCHED SEPARATELY FROM LIGHTS (CecC 150.0(k)(2)).
- OUTDOOR LIGHTING PERMANENTLY MOUNTED TO A RESIDENTIAL BUILDING OR TO OTHER BUILDINGS ON THE SAME LOT SHALL BE HIGH EFFICACY AND MUST MEET THE REQUIREMENTS IN ITEM I AND THE REQUIREMENTS IN EITHER ITEM II OR ITEM III:
  - i) CONTROLLED BY A MANUAL ON AND OFF SWITCH THAT PERMITS THE AUTOMATIC ACTIONS OF ITEMS II OR III BELOW; AND
  - ii) CONTROLLED BY A PHOTOCELL AND EITHER A MOTION SENSOR OR AN AUTOMATIC TIME SWITCH CONTROL' OR
  - iii) CONTROLLED BY AN ASTRONOMICAL TIME CLOCK CONTROL.
- NOTE: CONTROLS THAT OVERRIDE TO ON SHALL NOT BE ALLOWED UNLESS THE OPERATOR AUTOMATICALLY RETURNS THE AUTOMATIC CONTROL TO ITS NORMAL OPERATION WITHIN 6 HOURS. AN ENERGY MANAGEMENT CONTROL SYSTEM THAT PROVIDES THE SPECIFIED LIGHTING CONTROL FUNCTIONALITY AND COMPLIES WITH ALL REQUIREMENTS APPLICABLE TO THE SPECIFIED CONTROLS MAY BE USED TO MEET THESE REQUIREMENTS.

## TITLE 24 COMPLIANCE

- ALL INTERIOR RESIDENTIAL LIGHTING IS TO BE HIGH EFFICACY.
- THE FOLLOWING LIGHTING IS HIGH EFFICACY: PIN BASED LINEAR FLUORESCENT, PIN BASED COMPACT FLUORESCENT, PULSE-START METAL HALIDE, HIGH PRESSURE SODIUM, GU-24 (OTHER THAN LED'S), INSEPARABLE SOLID STATE LUMINAIRES, INSTALLED OUTDOORS OR INSEPARABLE SSL LUMINAIRES WITH COLORED LIGHT SOURCES FOR DECORATIVE LIGHTING PURPOSES. (2022 CcC TABLE 150.0-A)
- THE FOLLOWING LAMPS AND LIGHT SOURCES ARE HIGH EFFICACY IF THEY ARE JOINT APPENDIX JA8-CERTIFIED. JA-8 CERTIFIED LAMPS AND LIGHT SOURCES ARE MARKED AS "JA8-2016" OR "JA8-2016P". THESE FIXTURES INCLUDE: LED LUMINAIRES WITH INTEGRAL SOURCES THAT ARE CERTIFIED TO THE ENERGY COMMISSION, SCREW-BASED LED LAMPS (A-LAMPS, PAR LAMPS, ETC.), PIN BASED LED LAMPS (MR-16, AR-11, ETC.), GU-24 BASED LED LIGHT SOURCES AND OTHER LUMINAIRES. (2022 CcC TABLE 150.0-A) LISTING OF CA CERTIFIED FIXTURES IS LOCATED ON THE CALIFORNIA ENERGY COMMISSION WEBSITE AT: [HTTP://APPLIANCES.ENERGY.CA.GOV/ADVANCEDSEARCH/ASPX](http://APPLIANCES.ENERGY.CA.GOV/ADVANCEDSEARCH/ASPX)
- RECESSED LUMINAIRES INSTALLED IN AREAS TO RECEIVE INSULATION SHALL BE "IC" LUMINAIRES AND ARE CERTIFIED AND LABELED AS AIRTIGHT TO THE STANDARDS PRESCRIBED BY THE RESIDENTIAL ENERGY CODE.
- ADDITIONAL REQUIREMENTS FOR ANY RECESSED DOWNLIGHTS IN CEILINGS ARE AS FOLLOWS. THEY
  - SHALL NOT HAVE SCREW BASED SOCKETS.
  - SHALL CONTAIN JA8-CERTIFIED LIGHT SOURCES AND
  - SHALL MEET PERFORMANCE REQUIREMENTS OF 2022 CcC SECTION 150.0(K)(1).
- THE NUMBER OF ELECTRICAL BOXES LOCATED MORE THAN 5 FEET ABOVE FINISHED FLOOR THAT DO NOT CONTAIN ALUMINAIRE OR OTHER DEVICE SHALL NOT EXCEED THE NUMBER OF BEDROOMS. THESE BOXES MUST BE SERVED BY A DIMMER, VACANCY SENSOR OR FAN SPEED CONTROL. (2022 CcC SECTION 150(K)(1B))
- UNDERCABINET LIGHTING MUST BE SWITCHED SEPARATE FROM ALL OTHER LIGHTING.
- ALL LIGHTING MUST HAVE READILY ACCESSIBLE MANUAL CONTROLS
- EXHAUST FANS MUST BE SWITCHED SEPARATE FROM LIGHTING OR UTILIZE A DEVICE WHERE LIGHTING CAN BE TURNED OFF WHILE THE FAN IS RUNNING.
- FOR ALL SPACE TYPES EXCEPT HALLWAYS AND CLOSETS THAT ARE 70 SF OR SMALLER, VANCANY SENSORS OR DIMMERS ARE REQUIRED WHEN USING A SOURCE REGULATED BY JA8.
- IN KITCHENS, IF THE LUMINAIRE IS AN ENCLOSED OR RECESSED LUMINAIRE, YOU MUST USE A DIMMER OR VACANCY SENSOR.
- AT LEAST ONE LUMINAIRE IN THE BATHROOM, GARAGE, LAUNDRY ROOM AND UTILITY ROOM MUST BE CONTROLLED BY A VACANCY SENSOR.
- THE BUILDER MUST PROVIDE NEW HOMEOWNERS WITH A LUMINAIRE SCHEDULE THAT INCLUDES A LIST OF INSTALLED LAMPS AND LUMINAIRES.
- ALL JOINTS, PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED OR OTHERWISE SEALED TO LIMIT INFILTRATION AND EXFILTRATION (2022 CcC 110.7).
- ATTIC ACCESS DOORS SHALL HAVE PERMANENTLY ATTACHED INSULATION USING ADHESIVE OR MECHANICAL FASTENERS. THE ATTIC ACCESS SHALL BE GASKETED TO PREVENT AIR LEAKAGE (2022 CcC 150.0(A)(2))
- ALL INSTALLED LUMINAIRES SHALL BE HIGH EFFICACY IN ACCORDANCE WITH CcC TABLE 150.0-A. (2022 CcC 150(K)(1A)).
- THE NUMBER OF ELECTRICAL BOXES THAT ARE MORE THAN 5 FEET ABOVE THE FINISHED FLOOR AND DO NOT CONTAIN A LUMINAIRE OR OTHER DEVICE SHALL BE NO GREATER THAN THE NUMBER OF BEDROOMS. THESE ELECTRICAL BOXES MUST BE SERVED BY A DIMMER, VACANCY SENSOR CONTROL, OR FAN SPEED CONTROL. (2022 CcC 150(K)(1B)).

## SOLAR READY NOTES

SOLAR READY REQUIREMENTS PER CcNC 110.10(b) THROUGH 110.10(e)

### SOLAR ZONE:

- MINIMUM AREA.** THE SOLAR ZONE SHALL HAVE A MINIMUM TOTAL AREA AS DESCRIBED BELOW. THE SOLAR ZONE SHALL COMPLY WITH ACCESS, PATHWAY, SMOKE VENTILATION, AND SPACING REQUIREMENTS AS SPECIFIED IN TITLE 24, PART 9 OR OTHER PARTS OF TITLE 24 OR IN ANY REQUIREMENTS ADOPTED BY A LOCAL JURISDICTION.
- THE SOLAR ZONE TOTAL AREA SHALL BE COMPRISED OF AREAS THAT HAVE NO DIMENSION LESS THAN FIVE FEET AND ARE NO LESS THAN 80 SQUARE FEET EACH FOR BUILDINGS WITH ROOF AREAS LESS THAN OR EQUAL TO 10,000 SQUARE FEET OR NO LESS THAN 160 SQUARE FEET EACH FOR BUILDINGS WITH ROOF AREAS GREATER THAN 10,000 SQUARE FEET.
  - SINGLE FAMILY RESIDENCES.** THE SOLAR ZONE SHALL BE LOCATED ON THE ROOF OR OVERHANG OF THE BUILDING AND HAVE A TOTAL AREA NO LESS THAN 250 SQUARE FEET.

**EXCEPTION 1** TO SECTION 110.10(B)(1A): SINGLE FAMILY RESIDENCES WITH A PERMANENTLY INSTALLED DOMESTIC SOLAR WATER-HEATING SYSTEM MEETING THE INSTALLATION CRITERIA SPECIFIED IN THE REFERENCE RESIDENTIAL APPENDIX RA4 AND WITH A MINIMUM SOLAR SAVINGS FRACTION OF 0.50.

**EXCEPTION 5** TO SECTION 110.10(B)(1A): SINGLE FAMILY RESIDENCES HAVING A SOLAR ZONE TOTAL AREA NO LESS THAN 150 SQUARE FEET AND WHERE ALL THERMOSTATS ARE DEMAND RESPONSIVE CONTROLS AND COMPLY WITH SECTION 110.12(A), AND ARE CAPABLE OF RECEIVING AND RESPONDING TO DEMAND RESPONSE SIGNALS PRIOR TO GRANTING OF AN OCCUPANCY PERMIT BY THE ENFORCING AGENCY.

**EXCEPTION 6** TO SECTION 110.10(B)(1A): SINGLE-FAMILY RESIDENCES MEETING THE FOLLOWING CONDITIONS:

- ALL THERMOSTATS ARE DEMAND RESPONSIVE CONTROLS THAT COMPLY WITH SECTION 110.12(A), AND ARE CAPABLE OF RECEIVING AND RESPONDING TO DEMAND RESPONSE SIGNALS PRIOR TO GRANTING OF AN OCCUPANCY PERMIT BY THE ENFORCING AGENCY.
- COMPLY WITH ONE OF THE FOLLOWING MEASURES:
  - INSTALL A DISHWASHER THAT MEETS OR EXCEEDS THE ENERGY STAR® PROGRAM REQUIREMENTS WITH A REFRIGERATOR THAT MEETS OR EXCEEDS THE ENERGY STAR PROGRAM REQUIREMENTS, A WHOLE HOUSE FAN DRIVEN BY AN ELECTRONICALLY COMMUTATED MOTOR, OR AN SAE J1772 LEVEL 2 ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE OR EV CHARGER) WITH A MINIMUM OF 20 AMPERES.
  - INSTALL A HOME AUTOMATION SYSTEM CAPABLE OF, AT A MINIMUM, CONTROLLING THE APPLIANCES AND LIGHTING OF THE DWELLING AND RESPONDING TO DEMAND RESPONSE SIGNALS; OR
  - INSTALL ALTERNATIVE PLUMBING PIPING TO PERMIT THE DISCHARGE FROM THE CLOTHES WASHER AND ALL SHOWERS AND BATHTUBS TO BE USED FOR AN IRRIGATION SYSTEM IN COMPLIANCE WITH THE CALIFORNIA PLUMBING CODE AND ANY APPLICABLE LOCAL ORDINANCES; OR
  - INSTALL A RAINWATER CATCHMENT SYSTEM DESIGNED TO COMPLY WITH THE CALIFORNIA PLUMBING CODE AND ANY APPLICABLE LOCAL ORDINANCES, AND THAT USES RAINWATER FLOWING FROM AT LEAST 65 PERCENT OF THE AVAILABLE ROOF AREA.

## WILDLAND-URBAN INTERFACE

- ROOF COVERING SHALL COMPLY WITH **2022 CRC R337.5.2** UNDERLAYMENT SHALL BE ONE LAYER OF OF MINIMUM 72 POUND MINERAL-SURFACED NONPERFORATED CAP SHEET COMPLYING WITH ASTM D3909 INSTALLED OVER THE COMBUSTIBLE DECKING. ALTERNATELY, A CLASS A FIRE RATED ROOF UNDERLAYMENT, TESTED IN ACCORDANCE WITH ASTM E108, SHALL BE PERMITTED TO BE USED.
- ROOF VALLEYS SHALL COMPLY WITH **2022 CRC R337.5.3**. VALLEY FLASHING SHALL BE NOT LESS THAN 26 GAGE GALVANIZED SHEET CORROSIVE RESISTANT METAL INSTALLED OVER NOT LESS THAN ONE LAYER OF MINIMUM 72 POUND MINERAL-SURFACED NONPERFORATED CAP SHEET COMPLYING WITH ASTM D3909, AT LEAST 36 INCHES WIDE RUNNING THE FULL LENGTH OF THE VALLEY.
- ROOF GUTTERS SHALL COMPLY WITH **2022 CRC R337.5.4**. ROOF GUTTERS SHALL BE PROVIDE WITH THE MEANS TO PREVENT THE ACCUMULATION OF LEAVES AND DEBRIS IN THE GUTTER.
- VENTILATION OPENINGS SHALL COMPLY WITH **2022 CRC R337.6** - VENTILATION OPENINGS FOR ENCLOSED ATTICS, ENCLOSED EAVE SOFFIT SPACES, ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS, AND UNDERFLOOR VENTILATION OPENINGS SHALL BE FULLY COVERED WITH METAL WIRE MESH OR OTHER DEVICES. REFER TO **SECTIONS R337.6.1** THROUGH **R337.6.3** FOR ADDITIONAL INFORMATION.
- EXTERIOR COVERINGS SHALL COMPLY WITH **2022CRC R337.7** EXTERIOR WALL COVERINGS OR WALL ASSEMBLIES SHALL COMPLY WITH ONE OF THE FOLLOWING REQUIREMENTS: BE OF NONCOMBUSTIBLE MATERIAL, IGNITION-RESISTANT MATERIAL, HEAVY TIMBER EXTERIOR WALL ASSEMBLY, LOG WALL CONSTRUCTION ASSEMBLY, OR WALL ASSEMBLIES THAT MEET THE PERFORMANCE CRITERIA IN ACCORDANCE WITH THE TEST PROCEDURES FOR A 10-MINUTE DIRECT FLAME CONTACT EXPOSURE TEST SET FORTH IN SFM STANDARD 12-7A-1. REFER TO **SECTIONS R337.7.1** THROUGH **R337.7.9** FOR ADDITIONAL INFORMATION.

## FIRE-RESISTANT CONSTRUCTION

SELECT THE APPROPRIATE BOX BELOW (ONLY 1):

<input type="checkbox"/>	<b>FIRE SEPARATION DISTANCE: 25'-0"</b> (EXTERIOR WALLS, PROJECTIONS, OPENINGS, AND PENETRATIONS)	<b>NO FIRE-RESISTANCE RATING REQUIRED</b>
<input type="checkbox"/>	<b>FIRE SEPARATION DISTANCE: 4'-0" - 5'-0"</b> (EXTERIOR WALLS, OPENINGS, AND PENETRATIONS) <b>PROJECTION SEPARATION DIST.: 23'-0"</b>	<b>NO FIRE-RESISTANCE RATING REQUIRED</b>
	OPENINGS, AND PENETRATIONS	<b>NO FIRE-RESISTANCE RATING REQUIRED</b>
	EXTERIOR WALLS AND PROJECTIONS	<b>1-HR FIRE-RESISTANCE</b>
<input type="checkbox"/>	<b>SPRINKLERED</b> <b>FIRE SEPARATION DISTANCE: 34'-0"</b> (EXTERIOR WALLS, OPENINGS, AND PENETRATIONS)	<b>NO FIRE-RESISTANCE RATING REQUIRED</b>



THESE PLANS ARE PROVIDED BY THE COUNTY OF SAN LUIS OBISPO AS PART OF THE PRE-APPROVED ADU PROGRAM AND ARE PUBLIC DOMAIN. THERE CANNOT BE A CHARGE TO PROVIDE THESE PLANS. NO ALTERATIONS TO THESE PLANS ARE ALLOWED. ALL ALTERATIONS MUST BE DONE UNDER A SEPARATE PERMIT. THE CITY WILL NOT PROVIDE FURTHER INFORMATION OR DETAILS AND BUILDING INSPECTORS WILL NOT PROVIDE STEP BY STEP INSTRUCTIONS IN THE FIELD.

COUNTY OF SAN LUIS OBISPO  
ACCESSORY DWELLING UNIT  
SAN LUIS OBISPO, CA

GENERAL NOTES

DATE  
11/28/2023

SHEET



CLIMATE ZONE

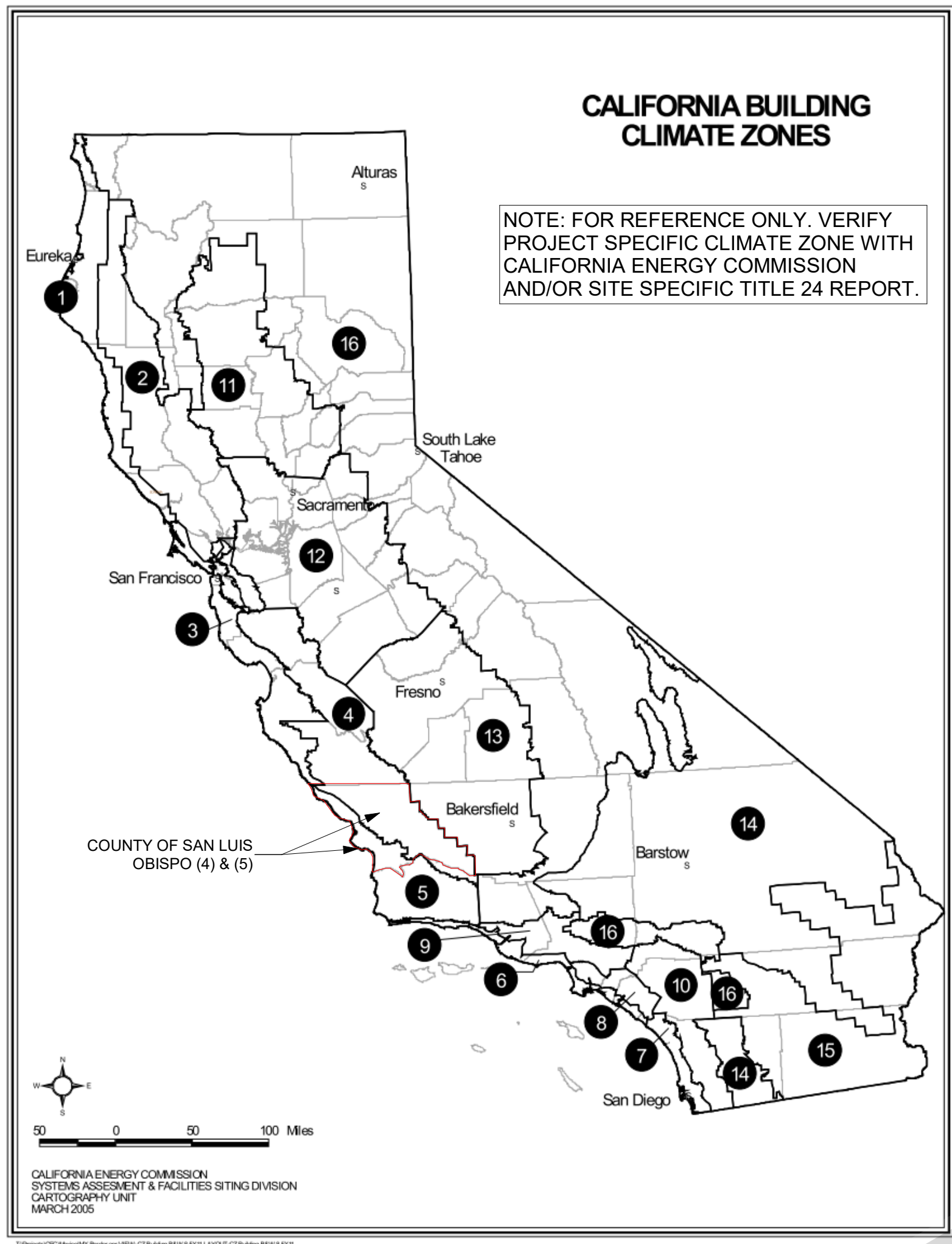


FIGURE 100.1-A—CALIFORNIA CLIMATE ZONES  
Climate Zones for Residential and Nonresidential Occupancies

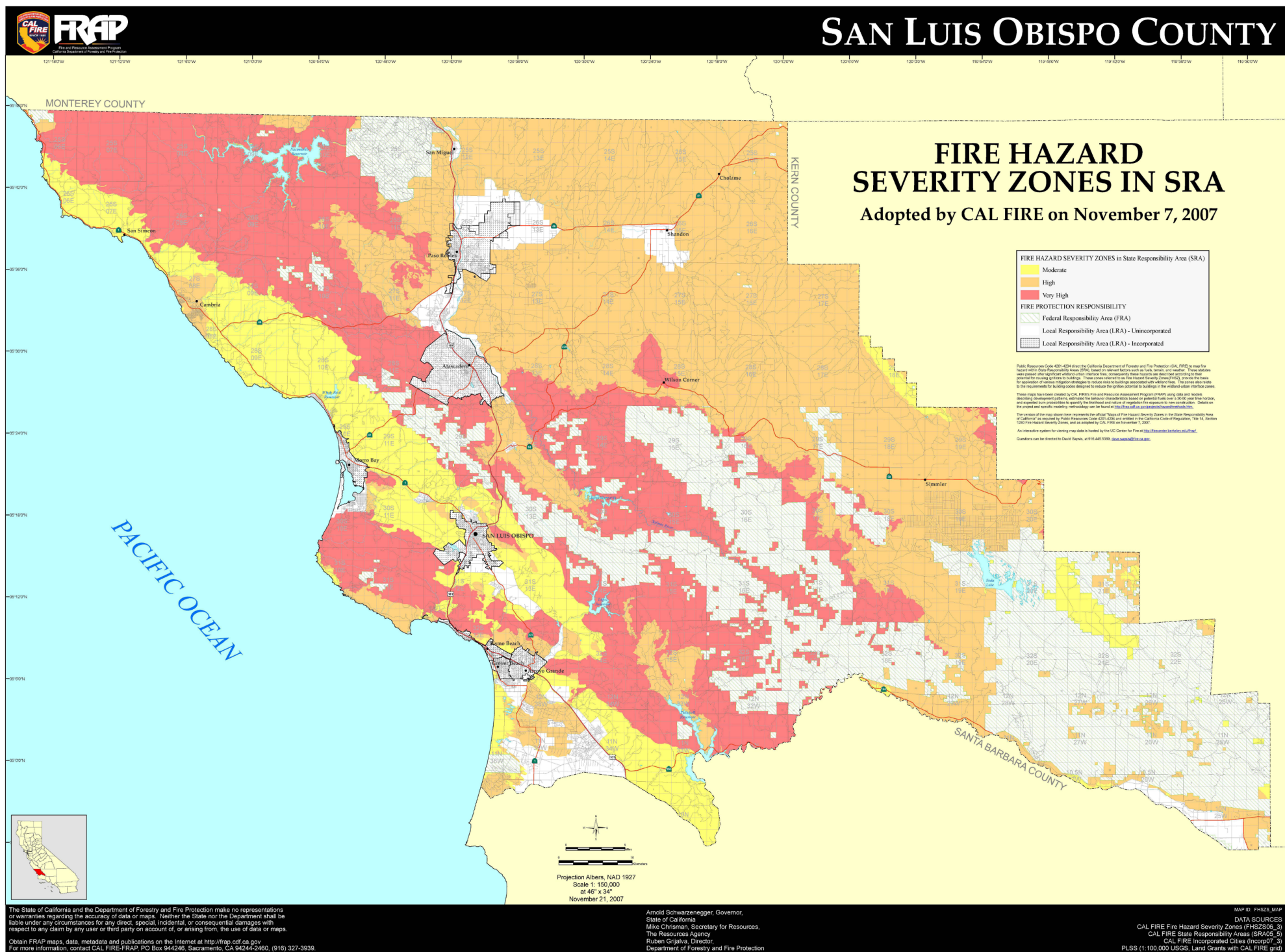
SECTION 100.1 – DEFINITIONS AND RULES OF CONSTRUCTION

ABBREVIATIONS

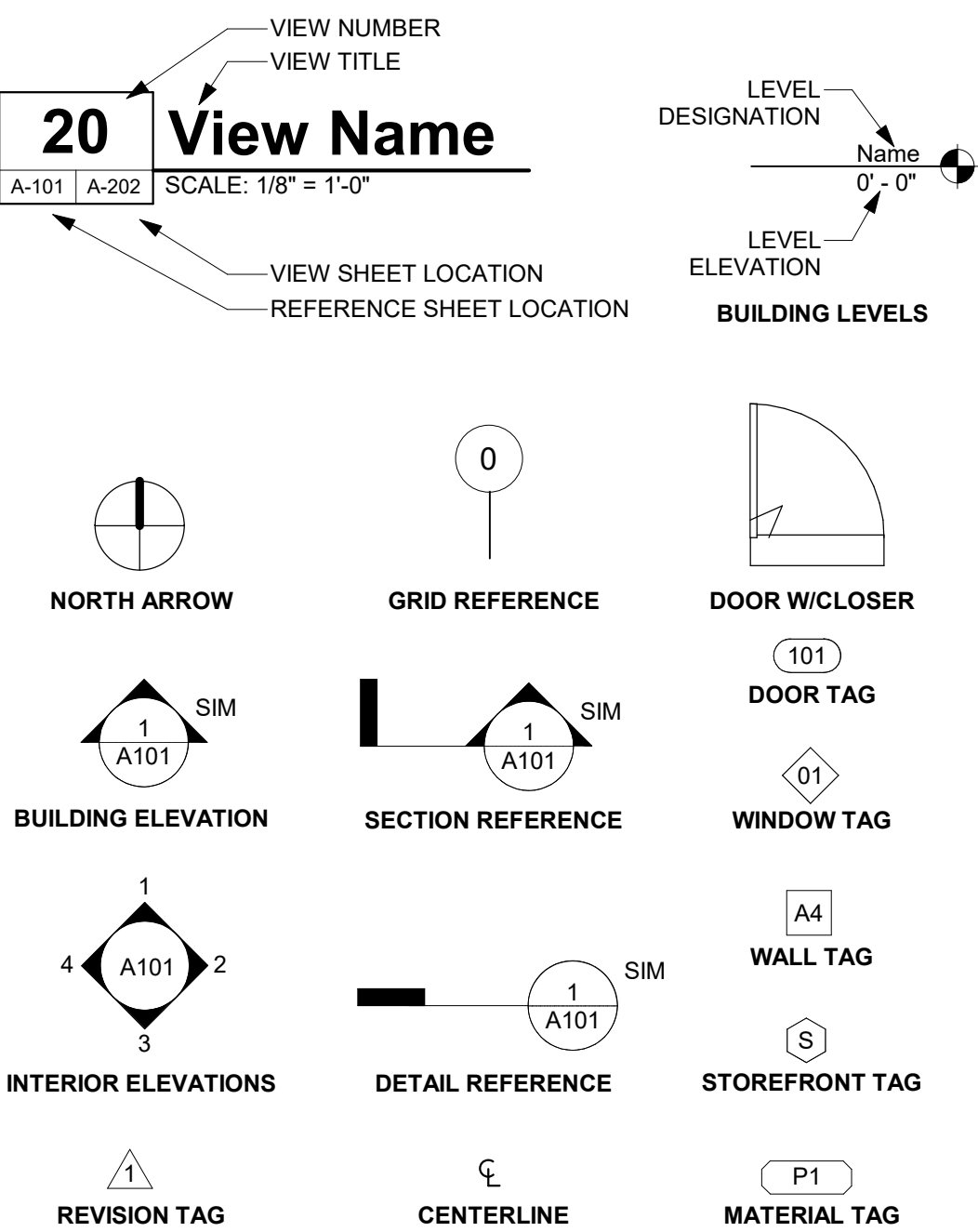
A/C	AIR CONDITIONING	EXT	EXTERIOR	MAX	MAXIMUM	SF	SQUARE FOOT
ABV	ABOVE	FACP	FIRE ALARM CONTROL PANEL	MDF	MEDIUM DENSITY FIBERBOARD	SHT	SHEET
ACOUS	ACOUSTICAL	FAU	FORCED AIR UNIT	MECH	MECHANICAL	SHTHG	SHEATHING
ACT	ACOUSTICAL CEILING TILE	FAWP	FLUID APPLIED WATERPROOFING	MEMB	MEMBRANE	SIM	SIMILAR
ADA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

FIRE HAZARD SEVERITY ZONES

DISCLAIMER: MAP IS FOR GENERAL REFERENCE ONLY. TO ACQUIRE ACCURATE INFORMATION FOR FIRE HAZARD SEVERITY IN SITE SPECIFIC LOCATION, REFER TO THE CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION.



SYMBOLS



COUNTY OF SAN LUIS OBISPO  
ACCESSORY DWELLING UNIT  
SAN LUIS OBISPO, CA  
INDEX, ABBREVIATIONS, &  
SYMBOLS

DATE  
11/28/2023  
SHEET

G-102





2022 Single-Family Residential Mandatory Requirements Summary

§ 150.0(m)13:	<b>Space Conditioning System Airflow Rate and Fan Efficacy.</b> Space conditioning systems that use ducts to supply cooling must have a hole for the placement of a static pressure probe, or a permanently installed static pressure probe in the supply plenum. Airflow must be ≥ 350 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.45 watts per CFM for gas furnace air handlers and ≤ 0.58 watts per CFM for all others. Small duct high velocity systems must provide an airflow ≥ 250 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.62 watts per CFM. Field verification testing is required in accordance with Reference Residential Appendix RA3.3. *
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Ventilation and Indoor Air Quality:

§ 150.0(o)1:	<b>Requirements for Ventilation and Indoor Air Quality.</b> All dwelling units must meet the requirements of ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(o)1. *
§ 150.0(o)1B:	<b>Central Fan Integrated (CFI) Ventilation Systems.</b> Continuous operation of CFI air handlers is not allowed to provide the whole-dwelling unit ventilation airflow required per §150.0(o)1C. A motorized damper(s) must be installed on the ventilation duct(s) that prevents all airflow through the space conditioning duct system when the damper(s) is closed and uncontrolled per §150.0(o)1Bii&iv. CFI ventilation systems must have controls that track outdoor air ventilation run time, and either open or close the motorized damper(s) for compliance with §150.0(o)1C.
§ 150.0(o)1C:	<b>Whole-Dwelling Unit Mechanical Ventilation for Single-Family Detached and townhouses.</b> Single-family detached dwelling units, and attached dwelling units not sharing ceilings or floors with other dwelling units, occupiable spaces, public garages, or commercial spaces must have mechanical ventilation airflow specified in § 150.0(o)1C-iii.
§ 150.0(o)1G:	<b>Local Mechanical Exhaust.</b> Kitchens and bathrooms must have local mechanical exhaust; nonenclosed kitchens must have demand-controlled exhaust system meeting requirements of §150.0(o)1Giii enclosed kitchens and bathrooms can use demand-controlled or continuous exhaust meeting §150.0(o)1Gii-iv. Airflow must be measured by the installer per §150.0(o)1Gv, and rated for sound per §150.0(o)1Gvi. *
§ 150.0(o)1H&I:	<b>Airflow Measurement and Sound Ratings of Whole-Dwelling Unit Ventilation Systems.</b> The airflow required per § 150.0(o)1C must be measured by using a flow hood, flow grid, or other airflow measuring device at the fan's inlet or outlet terminals/grilles per Reference Residential Appendix RA3.7. Whole-Dwelling unit ventilation systems must be rated for sound per ASHRAE 62.2 §7.2 at no less than the minimum airflow rate required by §150.0(o)1C.
§ 150.0(o)2:	<b>Field Verification and Diagnostic Testing.</b> Whole-Dwelling Unit ventilation airflow, vented range hood airflow and sound rating, and HRV and ERV fan efficacy must be verified in accordance with Reference Residential Appendix RA3.7. Vented range hoods must be verified per Reference Residential Appendix RA3.7.4.3 to confirm if it is rated by HVI or AHAM to comply with the airflow rates and sound requirements per §150.0(o)1G

Pool and Spa Systems and Equipment:

§ 110.4(a):	<b>Certification by Manufacturers.</b> Any pool or spa heating system or equipment must be certified to have all of the following: compliance with the Appliance Efficiency Regulations and listing in MAEDDS; an on-off switch mounted outside of the heater that allows shutting off the heater without adjusting the thermostat setting; a permanent weatherproof plate or card with operating instructions; and must not use electric resistance heating. *
§ 110.4(b)1:	<b>Piping.</b> Any pool or spa heating system or equipment must be installed with at least 36 inches of pipe between the filter and the heater, or dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating.
§ 110.4(b)2:	<b>Covers.</b> Outdoor pools or spas that have a heat pump or gas heater must have a cover.
§ 110.4(b)3:	<b>Directional Inlets and Time Switches for Pools.</b> Pools must have directional inlets that adequately mix the pool water, and a time switch that will allow all pumps to be set or programmed to run only during off-peak electric demand periods.
§ 110.5:	<b>Pilot Light.</b> Natural gas pool and spa heaters must not have a continuously burning pilot light.
§ 150.0(p):	<b>Pool Systems and Equipment Installation.</b> Residential pool systems or equipment must meet the specified requirements for pump sizing, flow rate, piping, filters, and valves.

Lighting:

§ 110.9:	<b>Lighting Controls and Components.</b> All lighting control devices and systems, ballasts, and luminaires must meet the applicable requirements of § 110.9. *
§ 150.0(k)1A:	<b>Luminaire Efficacy.</b> All installed luminaires must meet the requirements in Table 150.0-A, except lighting integral to exhaust fans, kitchen range hoods, bath vanity mirrors, and garage door openers; navigation lighting less than 5 watts; and lighting internal to drawers, cabinets, and linen closets with an efficacy of at least 45 lumens per watt.
§ 150.0(k)1B:	<b>Screw based luminaires.</b> Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8. *
§ 150.0(k)1C:	<b>Recessed Downlight Luminaires in Ceilings.</b> Luminaires recessed into ceilings must not contain screw based sockets, must be airtight, and must be sealed with a gasket or caulk. California Electrical Code § 410.116 must also be met.
§ 150.0(k)1D:	<b>Light Sources in Enclosed or Recessed Luminaires.</b> Lamps and other separable light sources that are not compliant with the JA8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(k)1E:	<b>Blank Electrical Boxes.</b> The number of electrical boxes that are more than five feet above the finished floor and do not contain a luminaire or other device shall be no more than the number of bedrooms. These boxes must be served by a dimmer, vacancy sensor control, low voltage wiring, or fan speed control.
§ 150.0(k)1F:	<b>Lighting Integral to Exhaust Fans.</b> Lighting integral to exhaust fans (except when installed by the manufacturer in kitchen exhaust hoods) must meet the applicable requirements of § 150.0(k).

5/6/22

03



2022 Single-Family Residential Mandatory Requirements Summary

§ 110.5:	<b>Pilot Lights.</b> Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces; household cooking appliances (except appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu per hour.); and pool and spa heaters. *
§ 150.0(h)1:	<b>Building Cooling and Heating Loads.</b> Heating and/or cooling loads are calculated in accordance with the ASHRAE Handbook, Equipment Volume, Applications Volume, and Fundamentals Volume; the SMACNA Residential Comfort System Installation Standards Manual; or the ACCA Manual J using design conditions specified in § 150.0(h)2.
§ 150.0(h)3A:	<b>Clearances.</b> Air conditioner and heat pump outdoor condensing units must have a clearance of at least five feet from the outlet of any dryer.
§ 150.0(h)3B:	<b>Liquid Line Drier.</b> Air conditioners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the manufacturer's instructions.
§ 150.0(j)1:	<b>Water Piping, Solar Water-heating System Piping, and Space Conditioning System Line Insulation.</b> All domestic hot water piping must be insulated as specified in § 609.11 of the California Plumbing Code. *
§ 150.0(j)2:	<b>Insulation Protection.</b> Piping insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind as required by §120.3(b). Insulation exposed to weather must be water retardant and protected from UV light (no adhesive tapes). Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space must include, or be protected by, a Class I or Class II vapor retarder. Pipe insulation buried below grade must be installed in a waterproof and non-crushable casing or sleeve.
§ 150.0(n)1:	<b>Gas or Propane Water Heating Systems.</b> Systems using gas or propane water heaters to serve individual dwelling units must designate a space at least 2.5' x 2.5' x 7' suitable for the future installation of a heat pump water heater, and meet electrical and plumbing requirements, based on the distance between this designated space and the water heater location, and a condensate drain no more than 2' higher than the base of the water heater.
§ 150.0(n)3:	<b>Solar Water-heating Systems.</b> Solar water-heating systems and collectors must be certified and rated by the Solar Rating and Certification Corporation (SRCC), the International Association of Plumbing and Mechanical Officials, Research and Testing (IAPMO R&T), or by a listing agency that is approved by the executive director.

Ducts and Fans:

§ 110.8(d)3:	<b>Ducts.</b> Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Code (CMC). If a contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets this requirement.
§ 150.0(m)1:	<b>CMC Compliance.</b> All air-distribution system ducts and plenums must meet CMC §§ 601.0-605.0 and ANSI/SMACNA-006-2006 HVAC Duct Construction Standards Metal and Flexible 3rd Edition. Portions of supply-air and return-air ducts and plenums must be insulated to R-6.0 or higher; ducts located entirely in conditioned space as confirmed through field verification and diagnostic testing (RA3.1.4.3.8) do not require insulation. Connections of metal ducts and inner core of flexible ducts must be mechanically fastened. Openings must be sealed with mastic, tape, or other duct-closure system that meets the applicable UL requirements, or aerosol sealant that meets UL 723. The combination of mastic and either mesh or tape must be used to seal openings greater than 1/4". If mastic or tape is used, Building cavities, air handler support platforms, and plenums designed or constructed with materials other than sealed sheet metal, duct board or flexible duct must not be used to convey conditioned air. Building cavities and support platforms may contain ducts; ducts installed in these spaces must not be compressed. *
§ 150.0(m)2:	<b>Factory-Fabricated Duct Systems.</b> Factory-fabricated duct systems must comply with applicable requirements for duct construction, connections, and closures; joints and seams of duct systems and their components must not be sealed with cloth back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands.
§ 150.0(m)3:	<b>Field-Fabricated Duct Systems.</b> Field-fabricated duct systems must comply with applicable requirements for: pressure-sensitive tapes, mastics, sealants, and other requirements specified for duct construction.
§ 150.0(m)7:	<b>Backdraft Damper.</b> Fan systems that exchange air between the conditioned space and outdoors must have backdraft or automatic dampers.
§ 150.0(m)8:	<b>Gravity Ventilation Dampers.</b> Gravity ventilating systems serving conditioned space must have either automatic or readily accessible, manually operated dampers in all openings to the outside, except combustion inlet and outlet air openings and elevator shaft vents.
§ 150.0(m)9:	<b>Protection of Insulation.</b> Insulation must be protected from damage due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather must be suitable for outdoor service (e.g., protected by aluminum, sheet metal, painted canvas, or plastic cover). Cellular foam insulation must be protected as above or painted with a water retardant and solar radiation-resistant coating.
§ 150.0(m)10:	<b>Porous Inner Core Flex Duct.</b> Porous inner cores of flex ducts must have a non-porous layer or air barrier between the inner core and outer vapor barrier.
§ 150.0(m)11:	<b>Duct System Sealing and Leakage Test.</b> When space conditioning systems use forced air duct systems to supply conditioned air to an occupiable space, the ducts must be sealed and duct leakage tested, as confirmed through field verification and diagnostic testing, in accordance with Reference Residential Appendix RA3.1.
§ 150.0(m)12:	<b>Air Filtration.</b> Space conditioning systems with ducts exceeding 10 feet and the supply side of ventilation systems must have MERV 13 or equivalent filters. Filters for space conditioning systems must have a two inch depth or can be one inch if sized per Equation 150.0-A. Clean-filter pressure drop and labeling must meet the requirements in §150.0(m)12. Filters must be accessible for regular service. Filter racks or grilles must use gaskets, sealing, or other means to close gaps around the inserted filters to and prevents air from bypassing the filter. *

5/6/22

02



2022 Single-Family Residential Mandatory Requirements Summary

NOTE: Single-family residential buildings subject to the Energy Codes must comply with all applicable mandatory measures, regardless of the compliance approach used. Review the respective section for more information.  
(04/2022)

Building Envelope:

§ 110.6(a)1:	<b>Air Leakage.</b> Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 CFM per square foot or less when tested per NFRC-400, ASTM E283, or AAMA WDMA/CSA 10111.S.2/440-2011. *
§ 110.6(a)5:	<b>Labeling.</b> Fenestration products and exterior doors must have a label meeting the requirements of § 10-11(a).
§ 110.6(b):	<b>Field fabricated exterior doors and fenestration products</b> must use U-factors and solar heat gain coefficient (SHGC) values from Tables 110.6-A, 110.6-B, or JA4.5 for exterior doors. They must be caulked and/or weather-stripped.
§ 110.7:	<b>Air Leakage.</b> All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be caulked, gasketed, or weather striped.
§ 110.8(a):	<b>Insulation Certification by Manufacturers.</b> Insulation must be certified by the Department of Consumer Affairs, Bureau of Household Goods and Services (BHGS).
§ 110.8(g):	<b>Insulation Requirements for Heated Slab Floors.</b> Heated slab floors must be insulated per the requirements of § 110.8(g).
§ 110.8(j):	<b>Roofing Products Solar Reflectance and Thermal Emittance.</b> The thermal emittance and aged solar reflectance values of the roofing material must meet the requirements of § 110.8(j) and be labeled per §10-113 when the installation of a cool roof is specified on the CFR.
§ 110.8(j):	<b>Radiant Barrier.</b> When required, radiant barriers must have an emittance of 0.05 or less and be certified to the Department of Consumer Affairs.
§ 150.0(a):	<b>Roof Deck, Ceiling and Rafter Roof Insulation.</b> Roof decks in newly constructed attics in climate zones 4 and 8-16 area-weighted average U-factor not exceeding U-0.184. Ceiling and rafter roofs minimum R-22 insulation in wood-frame ceiling; or area-weighted average U-factor must not exceed 0.043. Rafter roof alterations minimum R-19 or area-weighted average U-factor of 0.054 or less. Attic access doors must have permanently attached insulation using adhesive or mechanical fasteners. The attic access must be gasketed to prevent air leakage. Insulation must be installed in direct contact with a roof or ceiling which is sealed to limit infiltration and exfiltration, as specified in § 110.7, including but not limited to placing insulation either above or below the roof deck or on top of a drywall ceiling.
§ 150.0(b):	<b>Loose-fill Insulation.</b> Loose fill insulation must meet the manufacturer's required density for the labeled R-value.
§ 150.0(c):	<b>Wall Insulation.</b> Minimum R-13 insulation in 2x4 inch wood framing wall or have a U-factor of 0.102 or less, or R-20 in 2x6 inch wood framing or have a U-factor of 0.071 or less. Opaque non-framed assemblies must have an overall assembly U-factor not exceeding 0.102. Masonry walls must meet Tables 150.1-A or B. *
§ 150.0(d):	<b>Raised-floor Insulation.</b> Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor. *
§ 150.0(f):	<b>Slab Edge Insulation.</b> Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material alone without facings, no greater than 0.3 percent; have a water vapor permeance no greater than 2.0 perm per inch; be protected from physical damage and UV light deterioration; and, when installed as part of a heated slab floor, meet the requirements of § 110.8(g).
§ 150.0(g)1:	<b>Vapor Retarder.</b> In climate zones 1 through 16, the earth floor of unvented crawl space must be covered with a Class I or Class II vapor retarder. This requirement also applies to controlled ventilation crawl space for buildings complying with the exception to §150.0(d).
§ 150.0(g)2:	<b>Vapor Retarder.</b> In climate zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of all insulation in all exterior walls, vented attics, and unvented attics with air-permeable insulation.
§ 150.0(q):	<b>Fenestration Products.</b> Fenestration, including skylights, separating conditioned space from unconditioned space or outdoors must have a maximum U-factor of 0.45; or area-weighted average U-factor of all fenestration must not exceed 0.45.

Fireplaces, Decorative Gas Appliances, and Gas Log:

§ 110.5(e):	<b>Pilot Light.</b> Continuously burning pilot lights are not allowed for indoor and outdoor fireplaces.
§ 150.0(e)1:	<b>Closable Doors.</b> Masonry or factory-built fireplaces must have a closable metal or glass door covering the entire opening of the firebox.
§ 150.0(e)2:	<b>Combustion Intake.</b> Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square inches in area and is equipped with a readily accessible, operable, and tight-fitting damper or combustion-air control device.
§ 150.0(e)3:	<b>Flue Damper.</b> Masonry or factory-built fireplaces must have a flue damper with a readily accessible control. *

Space Conditioning, Water Heating, and Plumbing System:

§ 110.0-§ 110.3:	<b>Certification.</b> Heating, ventilation, and air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other regulated appliances must be certified by the manufacturer to the California Energy Commission.
§ 110.2(a):	<b>HVAC Efficiency.</b> Equipment must meet the applicable efficiency requirements in Table 110.2-A through Table 110.2-N. *
§ 110.2(b):	<b>Controls for Heat Pumps with Supplementary Electric Resistance Heaters.</b> Heat pumps with supplementary electric resistance heaters must have controls that prevent supplementary heater operation when the heating load can be met by the heat pump alone; and in which the cut-on temperature for compression heating is higher than the cut-on temperature for supplementary heating, and the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating.
§ 110.2(c):	<b>Thermostats.</b> All heating or cooling systems not controlled by a central energy management control system (EMCS) must have a setback thermostat.
§ 110.3(c)3:	<b>Insulation.</b> Unfired service water heater storage tanks and solar water-heating backup tanks must have adequate insulation, or tank surface heat loss rating.
§ 110.3(c)6:	<b>Isolation Valves.</b> Instantaneous water heaters with an input rating greater than 6.8 kBtu per hour (2 kW) must have isolation valves with hose bibbs or other fittings on both cold and hot water lines to allow for flushing the water heater when the valves are closed.

5/6/22

01



2022 Single-Family Residential Mandatory Requirements Summary

§ 150.0(s):	<b>Energy Storage System (ESS) Ready.</b> All single-family residences must meet all of the following: Either ESS-ready interconnection equipment with backed up capacity of 60 amps or more and four or more ESS supplied branch circuits, <i>or</i> a dedicated raceway from the main service to a subpanel that supplies the branch circuits in § 150.0(s); at least four branch circuits must be identified and have their source collocated at a single panelboard suitable to be supplied by the ESS, with one circuit supplying the refrigerator, one lighting circuit near the primary exit, and one circuit supplying a sleeping room receptacle outlet; main panelboard must have a minimum busbar rating of 225 amps; sufficient space must be reserved to allow future installation of a system isolation equipment/transfer switch within 3' of the main panelboard, with raceways installed between the panelboard and the switch location to allow the connection of backup power source.
§ 150.0(t):	<b>Heat Pump Space Heater Ready.</b> Systems using gas or propane furnaces to serve individual dwelling units must include: A dedicated unobstructed 240V branch circuit wiring installed within 3' of the furnace with circuit conductors rated at least 30 amps with the blank cover identified as "240V ready;" and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."
§ 150.0(u):	<b>Electric Cooktop Ready.</b> Systems using gas or propane cooktop to serve individual dwelling units must include: A dedicated unobstructed 240V branch circuit wiring installed within 3' of the cooktop with circuit conductors rated at least 50 amps with the blank cover identified as "240V ready;" and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."
§ 150.0(v):	<b>Electric Clothes Dryer Ready.</b> Clothes dryer locations with gas or propane plumbing to serve individual dwelling units must include: A dedicated unobstructed 240V branch circuit wiring installed within 3' of the dryer location with circuit conductors rated at least 30 amps with the blank cover identified as "240V ready;" and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."

\*Exceptions may apply.

5/6/22

05



2022 Single-Family Residential Mandatory Requirements Summary

§ 150.0(k)1G:	<b>Screw based luminaires.</b> Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8. *
§ 150.0(k)1H:	<b>Light Sources in Enclosed or Recessed Luminaires.</b> Lamps and other separable light sources that are not compliant with the JA8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(k)1I:	<b>Light Sources in Drawers, Cabinets, and Linen Closets.</b> Light sources internal to drawers, cabinetry or linen closets are not required to comply with Table 150.0-A or be controlled by vacancy sensors provided that they are rated to consume no more than 5 watts of power, emit no more than 150 lumens, and are equipped with controls that automatically turn the lighting off when the drawer, cabinet or linen closet is closed.
§ 150.0(k)2A:	<b>Interior Switches and Controls.</b> All forward phase cut dimmers used with LED light sources must comply with NEMA SSL 7A.
§ 150.0(k)2B:	<b>Interior Switches and Controls.</b> Exhaust fans must be controlled separately from lighting systems. *
§ 150.0(k)2A:	<b>Accessible Controls.</b> Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually turned on and off. *
§ 150.0(k)2B:	<b>Multiple Controls.</b> Controls must not bypass a dimmer, occupant sensor, or vacancy sensor function if the dimmer or sensor is installed to comply with § 150.0(k).
§ 150.0(k)2C:	<b>Mandatory Requirements.</b> Lighting controls must comply with the applicable requirements of § 110.9.
§ 150.0(k)2D:	<b>Energy Management Control Systems.</b> An energy management control system (EMCS) may be used to comply with dimming, occupancy, and control requirements if it provides the functionality of the specified control per § 110.9 and the physical controls specified in § 150.0(k)2A.
§ 150.0(k)2E:	<b>Automatic Shutoff Controls.</b> In bathrooms, garages, laundry rooms, utility rooms and walk-in closets, at least one installed luminaire must be controlled by an occupancy or vacancy sensor providing automatic off functionality. Lighting inside drawers and cabinets with opaque fronts or doors must have controls that turn the light off when the drawer or door is closed.
§ 150.0(k)2F:	<b>Dimmers.</b> Lighting in habitable spaces (e.g., living rooms, dining rooms, kitchens, and bedrooms) must have readily accessible wall-mounted dimming controls that allow the lighting to be manually adjusted up and down. Forward phase cut dimmers controlling LED light sources in these spaces must comply with NEMA SSL 7A.
§ 150.0(k)2K:	<b>Independent controls.</b> Integrated lighting of exhaust fans shall be controlled independently from the fans. Lighting under cabinets or shelves, lighting in display cabinets, and switched outlets must be controlled separately from ceiling-installed lighting.
§ 150.0(k)3A:	<b>Residential Outdoor Lighting.</b> For single-family residential buildings, outdoor lighting permanently mounted to a residential building, or to other buildings on the same lot, must have a manual on/off switch and either a photocell and motion sensor or automatic time switch control) or an astronomical time clock. An energy management control system that provides the specified control functionality and meets all applicable requirements may be used to meet these requirements.
§ 150.0(k)4:	<b>Internally illuminated address signs.</b> Internally illuminated address signs must either comply with § 140.8 or consume no more than 5 watts of power.
§ 150.0(k)5:	<b>Residential Garages for Eight or More Vehicles.</b> Lighting for residential parking garages for eight or more vehicles must comply with the applicable requirements for nonresidential garages in §§ 110.9, 130.0, 130.1, 130.4, 140.6, and 141.0.

Solar Readiness:

§ 110.10(a)1:	<b>Single-family Residences.</b> Single-family residences located in subdivisions with 10 or more single-family residences and where the application for a tentative subdivision map for the residences has been deemed complete and approved by the enforcement agency, which do not have a photovoltaic system installed, must comply with the requirements of § 110.10(b)-(e).
§ 110.10(b)1A:	<b>Minimum Solar Zone Area.</b> The solar zone must have a minimum total area as described below. The solar zone must comply with access, pathway, smoke ventilation, and spacing requirements as specified in Title 24, Part 9 or other parts of Title 24 or in any requirements adopted by a local jurisdiction. The solar zone total area must be comprised of areas that have no dimension less than 5 feet and are no less than 80 square feet each for buildings with roof areas less than or equal to 10,000 square feet or no less than 160 square feet each for buildings with roof areas greater than 10,000 square feet. For single-family residences, the solar zone must be located on the roof or overhang of the building and have a total area no less than 250 square feet. *
§ 110.10(b)2:	<b>Azimuth.</b> All sections of the solar zone located on steep-sloped roofs must have an azimuth between 90-300° of true north.
§ 110.10(b)3A:	<b>Shading.</b> The solar zone must not contain any obstructions, including but not limited to: vents, chimneys, architectural features, and roof mounted equipment.
§ 110.10(b)3B:	<b>Shading.</b> Any obstruction located on the roof or any other part of the building that projects above a solar zone must be located at least twice the horizontal distance of the height difference between the highest point of the obstruction and the horizontal projection of the nearest point of the solar zone, measured in the vertical plane. *
§ 110.10(b)4:	<b>Structural Design Loads on Construction Documents.</b> For areas of the roof designated as a solar zone, the structural design loads for roof dead load and roof live load must be clearly indicated on the construction documents.
§ 110.10(c):	<b>Interconnection Pathways.</b> The construction documents must indicate: a location reserved for inverters and metering equipment and a pathway reserved for routing of conduit from the solar zone to the point of interconnection with the electrical service; and for single-family residences and central water-heating systems, a pathway reserved for routing plumbing from the solar zone to the water-heating system.
§ 110.10(d):	<b>Documentation.</b> A copy of the construction documents or a comparable document indicating the information from § 110.10(b)-(c) must be provided to the occupant.
§ 110.10(e)1:	<b>Main Electrical Service Panel.</b> The main electrical service panel must have a minimum busbar rating of 200 amps.
§ 110.10(e)2:	<b>Main Electrical Service Panel.</b> The main electrical service panel must have a reserved space to allow for the installation of a double pole circuit breaker for a future solar electric installation. The reserved space must be permanently marked as "For Future Solar Electric."

Electric and Energy Storage Ready:

5/6/22

04



THESE PLANS ARE PROVIDED BY THE COUNTY OF SAN LUIS OBISPO AS PART OF THE PRE-APPROVED ADU PROGRAM AND ARE PUBLIC DOMAIN. THERE CANNOT BE A CHARGE TO PROVIDE THESE PLANS. NO ALTERATIONS TO THESE PLANS ARE ALLOWED. ALL ALTERATIONS MUST BE DONE UNDER A SEPARATE PERMIT ONCE THE BUILDING PERMIT FOR THE ADU HAS BEEN ISSUED AND FINAL INSPECTION COMPLETED. IF YOU DO NOT HAVE THE CONSTRUCTION KNOWLEDGE AND EXPERIENCE TO CONTRUCT THESE PLANS WITHOUT FURTHER DETAILS, IT IS RECOMMENDED YOU HIRE A CONTRACTOR TO DO THE CONSTRUCTION. THE CITY WILL NOT PROVIDE FURTHER INFORMATION OR DETAILS AND BUILDING INSPECTORS WILL NOT PROVIDE STEP BY STEP INSTRUCTIONS IN THE FIELD.

COUNTY OF SAN LUIS OBISPO  
ACCESSORY DWELLING UNIT  
SAN LUIS OBISPO, CA

2022 SINGLE-FAMILY RESIDENTIAL  
MANDATORY REQUIREMENTS

DATE  
11/28/2023

SHEET

G-103



# 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

## RESIDENTIAL MANDATORY MEASURES (SHEET 1)

### CHAPTER 1 - 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 THIRTEEN PARTS OF THE OFFICIAL COMPILED 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 AND 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 FACTUALLY CORRECT AND DEMONSTRATES SUBSTANTIAL CONFORMANCE WITH THE INTENT OF THE PROPOSED GREEN BUILDING MEASURE.

### CHAPTER 3 - GREEN BUILDING

#### SECTION 301 GENERAL

**301.1 SCOPE.**  
BUILDINGS SHALL BE DESIGNED TO INCLUDE THE GREEN BUILDING MEASURES SPECIFIED AS MANDATORY IN THE APPLICATION CHECKLISTS CONTAINED IN THIS CODE. VOLUNTARY GREEN BUILDING MEASURES ARE ALSO INCLUDED IN THE APPLICATION CHECKLISTS AND MAY BE INCLUDED IN THE DESIGN AND CONSTRUCTION OF STRUCTURES COVERED BY THIS CODE, BUT ARE NOT REQUIRED UNLESS ADOPTED BY A CITY, COUNTY, OR CITY AND COUNTY AS SPECIFIED IN SECTION 101.7.

**301.1.1 ADDITIONS AND ALTERATIONS. [HCD]** THE MANDATORY PROVISIONS OF CHAPTER 4 SHALL BE APPLIED TO ADDITIONS OR ALTERATIONS OF EXISTING RESIDENTIAL BUILDINGS WHERE THE ADDITION OR ALTERATION INCREASES THE BUILDING'S CONDITIONED AREA, VOLUME, OR SIZE. THE REQUIREMENTS SHALL APPLY ONLY TO AND/OR WITHIN THE SPECIFIC AREA OF THE ADDITION OR ALTERATION.

THE MANDATORY PROVISIONS OF SECTION 4.106.4.2 MAY APPLY TO ADDITIONS OR ALTERATIONS OF EXISTING PARKING FACILITIES OR THE ADDITION OF NEW PARKING FACILITIES SERVING EXISTING MULTIFAMILY BUILDINGS. SEE SECTION 4.106.4.3 FOR APPLICATION.

**NOTE:** REPAIRS INCLUDING, BUT NOT LIMITED TO, RESURFACING, RESTRIPING, AND REPAIRING OR MAINTAINING EXISTING LIGHTING FIXTURES ARE NOT CONSIDERED ALTERATIONS FOR THE PURPOSE OF THIS SECTION.

**301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS [HCD].**  
THE PROVISIONS OF INDIVIDUAL SECTIONS OF CALGREEN MAY APPLY TO EITHER LOW-RISE RESIDENTIAL BUILDINGS, HIGH-RISE RESIDENTIAL BUILDINGS, OR BOTH. INDIVIDUAL SECTIONS WILL BE DESIGNATED BY BANNERS TO INDICATE WHERE THE SECTION APPLIES SPECIFICALLY TO LOW-RISE ONLY (LR) OR HIGH-RISE ONLY (HR), WHEN THE SECTION APPLIES TO BOTH LOW-RISE AND HIGH-RISE BUILDINGS, NO BANNER WILL BE USED.

### SECTION 302 MIXED OCCUPANCY BUILDINGS

**302.1 MIXED OCCUPANCY BUILDINGS.**  
IN MIXED OCCUPANCY BUILDINGS, EACH PORTION OF A BUILDING SHALL COMPLY WITH THE SPECIFIC GREEN BUILDING MEASURES APPLICABLE TO EACH SPECIFIC OCCUPANCY.

### CHAPTER 4 - RESIDENTIAL MANDATORY MEASURES

#### DIVISION 4.1 PLANNING AND DESIGN

##### 4.106 SITE DEVELOPMENT

**4.106.1 GENERAL.**  
PRESERVATION AND USE OF AVAILABLE NATURAL RESOURCES SHALL BE ACCOMPLISHED THROUGH EVALUATION AND CAREFUL PLANNING TO MINIMIZE NEGATIVE EFFECTS ON THE SITE AND ADJACENT AREAS. PRESERVATION OF SLOPES, MANAGEMENT OF STORM WATER DRAINAGE AND EROSION CONTROLS SHALL COMPLY WITH THIS SECTION.

**4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION**  
PROJECTS WHICH DISTURB LESS THAN ONE ACRE OF SOIL AND ARE NOT PART OF A LARGER COMMON PLAN OF DEVELOPMENT WHICH IN TOTAL DISTURBS ONE ACRE OR MORE, SHALL MANAGE STORM WATER DRAINAGE DURING CONSTRUCTION. IN ORDER TO MANAGE STORM WATER DRAINAGE DURING CONSTRUCTION, ONE OR MORE OF THE FOLLOWING MEASURES SHALL BE IMPLEMENTED TO PREVENT FLOODING OF ADJACENT PROPERTY, PREVENT EROSION AND RETAIN SOIL RUNOFF ON THE SITE.  
1. RETENTION BASINS OF SUFFICIENT SIZE SHALL BE UTILIZED TO RETAIN STORM WATER ON THE SITE.  
2. WHERE STORM WATER IS CONVEYED TO A PUBLIC DRAINAGE SYSTEM, COLLECTION POINT, GUTTER OR SIMILAR DISPOSAL METHOD, WATER SHALL BE FILTERED BY USE OF A BARRIER SYSTEM, WATTLE OR OTHER METHOD APPROVED BY THE ENFORCING AGENCY.  
3. COMPLIANCE WITH A LAWFULLY ENACTED STORM WATER MANAGEMENT ORDINANCE.

**4.106.3 GRADING AND PAVING**  
CONSTRUCTION PLANS SHALL INDICATE HOW THE SITE GRADING OR 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.

**EXCEPTIONS:** ADDITIONS AND ALTERATIONS NOT ALTERING THE DRAINAGE PATH.  
**4.106.4 ELECTRIC VEHICLE (EV) CHARGING FOR NEW CONSTRUCTION**  
NEW CONSTRUCTION SHALL COMPLY WITH SECTION 4.106.4.1, 4.106.4.2, OR 4.106.4.3, TO FACILITATE FUTURE INSTALLATION AND USE OF EV CHARGERS. ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE) SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE, ARTICLE 625.  
**EXCEPTIONS:**  
1. ON A CASE-BY-CASE BASIS, WHERE THE LOCAL ENFORCING AGENCY HAS DETERMINED EV CHARGING AND INFRASTRUCTURE ARE NOT FEASIBLE BASED UPON ONE OR MORE OF THE FOLLOWING CONDITIONS:  
1.1. WHERE THERE IS NO LOCAL UTILITY POWER SUPPLY OR THE LOCAL UTILITY IS UNABLE TO SUPPLY ADEQUATE POWER.  
1.2. WHERE THERE IS EVIDENCE SUITABLE TO THE LOCAL ENFORCING AGENCY SUBSTANTIATING THAT ADDITIONAL LOCAL UTILITY INFRASTRUCTURE DESIGN REQUIREMENTS, DIRECTLY RELATED TO THE IMPLEMENTATION OF SECTION 4.106.4, MAY ADVERSELY IMPACT THE CONSTRUCTION COST OF THE PROJECT.  
2. ACCESSORY DWELLING UNITS (ADU) AND JUNIOR ACCESSORY DWELLINGS UNITS (JADU) WITHOUT ADDITIONAL PARKING FACILITIES.

**4.106.4.1 NEW ONE- AND TWO-FAMILY DWELLINGS AND TOWNHOUSES WITH ATTACHED PRIVATE GARAGES**  
FOR EACH DWELLING UNIT, INSTALL A LISTED RACEWAY TO ACCOMMODATE A DEDICATED 208/240-VOLT BRANCH CIRCUIT. THE RACEWAY SHALL NOT BE LESS THAN TRADE SIZE 1 (NOMINAL 1-INCH INSIDE DIAMETER). THE RACEWAY SHALL ORIGINATE AT THE MAIN SERVICE OR SUBPANEL AND SHALL TERMINATE INTO A LISTED CABINET, BOX OR OTHER ENCLOSURE IN CLOSE PROXIMITY TO THE PROPOSED LOCATION OF AN EV CHARGER. RACEWAYS ARE REQUIRED TO BE CONTINUOUS AT ENCLOSED, INACCESSIBLE OR CONCEALED AREAS AND SPACES. THE SERVICE PANEL AND/OR SUBPANEL SHALL PROVIDE CAPACITY TO INSTALL A 40-AMPERE MINIMUM DEDICATED BRANCH CIRCUIT AND SPACE(S) RESERVED TO PERMIT INSTALLATION OF A BRANCH CIRCUIT OVERCURRENT PROTECTION DEVICE.

**4.106.4.1.1 IDENTIFICATION**  
THE SERVICE PANEL OR SUBPANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE OVERCURRENT PROTECTIVE DEVICE SPACE(S) RESERVED FOR FUTURE EV CHARGING AS "EV CAPABLE". THE RACEWAY TERMINATION LOCATION SHALL BE PERMANENTLY AND VISIBLY MARKED AS "EV CAPABLE".

**4.106.4.2 NEW MULTIFAMILY DWELLINGS, HOTELS AND MOTELS AND NEW RESIDENTIAL PARKING FACILITIES**  
WHEN PARKING IS PROVIDED, PARKING SPACES FOR NEW MULTIFAMILY DWELLINGS, HOTELS AND MOTELS SHALL MEET THE REQUIREMENTS OF SECTIONS 4.106.4.2.1 AND 4.106.4.2.2. CALCULATIONS OF SPACES SHALL BE ROUNDED UP TO THE NEAREST WHOLE NUMBER. A PARKING SPACE SERVED BY ELECTRIC VEHICLE SUPPLY EQUIPMENT OR DESIGNED AS A FUTURE EV CHARGING SPACE SHALL COUNT AS AT LEAST ONE STANDARD AUTOMOBILE PARKING SPACE ONLY FOR THE PURPOSE OF COMPLYING WITH ANY APPLICABLE MINIMUM PARKING SPACE REQUIREMENTS ESTABLISHED BY A LOCAL JURISDICTION. SEE VEHICLE CODE SECTION 22511.2 FOR FURTHER DETAILS.

**4.106.4.2.1 MULTIFAMILY DEVELOPMENT PROJECTS WITH LESS THAN 20 DWELLING UNITS, AND HOTELS AND MOTELS WITH LESS THAN 20 SLEEPING UNITS OR GUEST ROOMS**  
THE NUMBER OF DWELLING UNITS, SLEEPING UNITS OR GUEST ROOMS SHALL BE BASED ON ALL BUILDINGS ON A PROJECT SITE SUBJECT TO THIS SECTION.

**1. EV CAPABLE.** TEN (10) PERCENT OF THE TOTAL NUMBER OF PARKING SPACES ON A BUILDING SITE, PROVIDED FOR ALL TYPES OF PARKING FACILITIES, SHALL BE ELECTRIC VEHICLE CHARGING SPACES (EV SPACES) CAPABLE OF SUPPORTING FUTURE LEVEL 2 EVSE. ELECTRICAL LOAD CALCULATIONS SHALL DEMONSTRATE THAT THE ELECTRICAL PANEL SERVICE CAPACITY AND ELECTRICAL SYSTEM, INCLUDING ANY ON-SITE DISTRIBUTION TRANSFORMERS, HAVE SUFFICIENT CAPACITY TO SIMULTANEOUSLY CHARGE ALL EVS AT ALL REQUIRED EV SPACES AT A MINIMUM OF 40 AMPERES.

THE SERVICE PANEL OR SUBPANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE OVERCURRENT PROTECTIVE DEVICE SPACE(S) RESERVED FOR FUTURE EV CHARGING PURPOSES AS "EV CAPABLE" IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.

**4.106.4.2.2 MULTIFAMILY DEVELOPMENT PROJECTS WITH 20 OR MORE DWELLING UNITS, HOTELS AND MOTELS WITH 20 OR MORE SLEEPING UNITS OR GUEST ROOMS**  
THE NUMBER OF DWELLING UNITS, SLEEPING UNITS OR GUEST ROOMS SHALL BE BASED ON ALL BUILDINGS ON A PROJECT SITE SUBJECT TO THIS SECTION.  
**1. EV CAPABLE.** TEN (10) PERCENT OF THE TOTAL NUMBER OF PARKING SPACES ON A BUILDING SITE, PROVIDED FOR ALL TYPES OF PARKING FACILITIES, SHALL BE ELECTRIC VEHICLE CHARGING SPACES (EV SPACES) CAPABLE OF SUPPORTING FUTURE LEVEL 2 EVSE. ELECTRICAL LOAD CALCULATIONS SHALL DEMONSTRATE THAT THE ELECTRICAL PANEL SERVICE CAPACITY AND ELECTRICAL SYSTEM, INCLUDING ANY ON-SITE DISTRIBUTION TRANSFORMERS, HAVE SUFFICIENT CAPACITY TO SIMULTANEOUSLY CHARGE ALL EVS AT ALL REQUIRED EV SPACES AT A MINIMUM OF 40 AMPERES.

THE SERVICE PANEL OR SUBPANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE OVERCURRENT PROTECTIVE DEVICE SPACE(S) RESERVED FOR FUTURE EV CHARGING PURPOSES AS "EV CAPABLE" IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.

**4.106.4.2.3 EV SPACE REQUIREMENTS**  
**1. SINGLE EV SPACE REQUIRED.** INSTALL A LISTED RACEWAY CAPABLE OF ACCOMMODATING A 208/240-VOLT DEDICATED BRANCH CIRCUIT. THE RACEWAY SHALL NOT BE LESS THAN TRADE SIZE 1 (NOMINAL 1-INCH INSIDE DIAMETER). THE RACEWAY SHALL ORIGINATE AT THE MAIN SERVICE OR SUBPANEL AND SHALL TERMINATE INTO A LISTED CABINET, BOX OR ENCLOSURE IN CLOSE PROXIMITY TO THE LOCATION OF THE PROPOSED LOCATION OF THE EV SPACE. CONSTRUCTION DOCUMENTS SHALL IDENTIFY THE RACEWAY TERMINATION POINT, RECEPTACLE OR CHARGER LOCATION, AS APPLICABLE. THE SERVICE PANEL AND/OR SUBPANEL SHALL HAVE A 40-AMPERE MINIMUM DEDICATED BRANCH CIRCUIT, INCLUDING BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE INSTALLED, OR SPACE(S) RESERVED TO PERMIT INSTALLATION OF A BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE.  
**EXCEPTION:** A RACEWAY IS NOT REQUIRED IF A MINIMUM 40-AMPERE 208/240-VOLT DEDICATED EV BRANCH CIRCUIT IS INSTALLED IN CLOSE PROXIMITY TO THE LOCATION OR THE PROPOSED LOCATION OF THE EV SPACE, AT THE TIME OF ORIGINAL CONSTRUCTION IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.

**4.106.4.2.4 IDENTIFICATION**  
THE SERVICE PANEL OR SUBPANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE OVERCURRENT PROTECTIVE DEVICE SPACE(S) RESERVED FOR FUTURE EV CHARGING PURPOSES AS "EV CAPABLE" IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.

**4.106.4.2.5 ELECTRIC VEHICLE READY SPACE SIGNAGE**  
ELECTRIC VEHICLE READY SPACES SHALL BE IDENTIFIED BY SIGNAGE OR PAVEMENT MARKINGS, IN COMPLIANCE WITH CALTRANS TRAFFIC OPERATIONS POLICY DIRECTIVE 13-01 (ZERO EMISSION VEHICLE SIGNS AND PAVEMENT MARKINGS) OR ITS SUCCESSOR(S).

**4.106.4.3 ELECTRIC VEHICLE CHARGING FOR ADDITIONS AND ALTERATIONS OF PARKING FACILITIES SERVING EXISTING MULTIFAMILY BUILDINGS**  
WHEN NEW PARKING FACILITIES ARE ADDED OR ELECTRICAL SYSTEMS OR LIGHTING OF EXISTING PARKING FACILITIES ARE ADDED OR ALTERED AND THE WORK REQUIRES A BUILDING PERMIT, TEN (10) PERCENT OF THE TOTAL NUMBER OF PARKING SPACES ADDED OR ALTERED SHALL BE ELECTRIC VEHICLE CHARGING SPACES (EV SPACES) CAPABLE OF SUPPORTING FUTURE LEVEL 2 EVSE.

**NOTES:**  
a. CONSTRUCTION DOCUMENTS ARE INTENDED TO DEMONSTRATE THE PROJECT'S CAPABILITY AND CAPACITY FOR FACILITATING FUTURE EV CHARGING.  
b. THERE IS NO REQUIREMENT FOR EV SPACES TO BE CONSTRUCTED OR AVAILABLE UNTIL RECEPTACLES FOR EV CHARGING OR EV CHARGERS ARE INSTALLED FOR USE.

**2. EV READY.** TWENTY-FIVE (25) PERCENT OF THE TOTAL NUMBER OF PARKING SPACES SHALL BE EQUIPPED WITH LOW POWER LEVEL 2 EV CHARGING RECEPTACLES. FOR MULTIFAMILY PARKING FACILITIES, NO MORE THAN ONE RECEPTACLE IS REQUIRED PER DWELLING UNIT WHEN MORE THAN ONE PARKING SPACE IS PROVIDED FOR USE BY A SINGLE DWELLING UNIT.  
**EXCEPTION:** AREAS OF PARKING FACILITIES SERVED BY PARKING LIFTS.

**4.106.4.2.2 MULTIFAMILY DEVELOPMENT PROJECTS WITH 20 OR MORE DWELLING UNITS, HOTELS AND MOTELS WITH 20 OR MORE SLEEPING UNITS OR GUEST ROOMS**  
THE NUMBER OF DWELLING UNITS, SLEEPING UNITS OR GUEST ROOMS SHALL BE BASED ON ALL BUILDINGS ON A PROJECT SITE SUBJECT TO THIS SECTION.

**1. EV CAPABLE.** TEN (10) PERCENT OF THE TOTAL NUMBER OF PARKING SPACES ON A BUILDING SITE, PROVIDED FOR ALL TYPES OF PARKING FACILITIES, SHALL BE ELECTRIC VEHICLE CHARGING SPACES (EV SPACES) CAPABLE OF SUPPORTING FUTURE LEVEL 2 EVSE. ELECTRICAL LOAD CALCULATIONS SHALL DEMONSTRATE THAT THE ELECTRICAL PANEL SERVICE CAPACITY AND ELECTRICAL SYSTEM, INCLUDING ANY ON-SITE DISTRIBUTION TRANSFORMERS, HAVE SUFFICIENT CAPACITY TO SIMULTANEOUSLY CHARGE ALL EVS AT ALL REQUIRED EV SPACES AT A MINIMUM OF 40 AMPERES.

THE SERVICE PANEL OR SUBPANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE OVERCURRENT PROTECTIVE DEVICE SPACE(S) RESERVED FOR FUTURE EV CHARGING PURPOSES AS "EV CAPABLE" IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.

**EXCEPTION:** WHEN EV CHARGERS (LEVEL 2 EVSE) ARE INSTALLED IN A NUMBER GREATER THAN FIVE (5) PERCENT OF PARKING SPACES REQUIRED BY SECTION 4.106.4.2.2, ITEM 3, THE NUMBER OF EV CAPABLE SPACES REQUIRED MAY BE REDUCED BY A NUMBER EQUAL TO THE NUMBER OF EV CHARGERS INSTALLED OVER THE FIVE (5) PERCENT REQUIRED.

**NOTES:**  
CONSTRUCTION DOCUMENTS SHALL SHOW LOCATIONS OF FUTURE EV SPACES.  
THERE IS NO REQUIREMENT FOR EV SPACES TO BE CONSTRUCTED OR AVAILABLE UNTIL RECEPTACLES FOR EV CHARGING OR EV CHARGERS ARE INSTALLED FOR USE.

**2. EV READY.** TWENTY-FIVE (25) PERCENT OF THE TOTAL NUMBER OF PARKING SPACES SHALL BE EQUIPPED WITH LOW POWER LEVEL 2 EV CHARGING RECEPTACLES. FOR MULTIFAMILY PARKING FACILITIES, NO MORE THAN ONE RECEPTACLE IS REQUIRED PER DWELLING UNIT WHEN MORE THAN ONE PARKING SPACE IS PROVIDED FOR USE BY A SINGLE DWELLING UNIT.

**EXCEPTION:** AREAS OF PARKING FACILITIES SERVED BY PARKING LIFTS.  
**3. EV CHARGERS.** FIVE (5) PERCENT OF THE TOTAL NUMBER OF PARKING SPACES SHALL BE EQUIPPED WITH LEVEL 2 EVSE. WHERE COMMON USE PARKING IS PROVIDED, AT LEAST ONE EV CHARGER SHALL BE LOCATED IN THE COMMON USE PARKING AREA AND SHALL BE AVAILABLE FOR USE BY ALL RESIDENTS OR GUESTS.

WHEN LOW POWER LEVEL 2 EV CHARGING RECEPTACLES OR LEVEL 2 EVSE ARE INSTALLED BEYOND THE MINIMUM REQUIRED, AN AUTOMATIC LOAD MANAGEMENT SYSTEM (ALMS) MAY BE USED TO REDUCE THE MAXIMUM REQUIRED ELECTRICAL CAPACITY TO EACH SPACE SERVED BY THE ALMS. THE ELECTRICAL SYSTEM AND ANY ON-SITE DISTRIBUTION TRANSFORMERS SHALL HAVE SUFFICIENT CAPACITY TO DELIVER AT LEAST 3.3 KW SIMULTANEOUSLY TO EACH EV CHARGING STATION (EVCS) SERVED BY THE ALMS. THE BRANCH CIRCUIT SHALL HAVE A MINIMUM CAPACITY OF 40 AMPERES, AND INSTALLED EVSE SHALL HAVE A CAPACITY OF NOT LESS THAN 30 AMPERES. ALMS SHALL NOT BE USED TO REDUCE THE MINIMUM REQUIRED ELECTRICAL CAPACITY TO THE REQUIRED EV CAPABLE SPACES.

**4.106.4.2.1 ELECTRIC VEHICLE CHARGING STATIONS (EVCS)**  
ELECTRIC VEHICLE CHARGING STATIONS REQUIRED BY SECTION 4.106.4.2.2, ITEM 3, SHALL COMPLY WITH SECTION 4.106.4.2.2.1.

**EXCEPTION:** ELECTRIC VEHICLE CHARGING STATIONS SERVING PUBLIC ACCOMMODATIONS, PUBLIC HOUSING, MOTELS AND HOTELS SHALL NOT BE REQUIRED TO COMPLY WITH THIS SECTION. SEE CALIFORNIA BUILDING CODE, CHAPTER 11B, FOR APPLICABLE REQUIREMENTS.

**4.106.4.2.2.1 LOCATION**  
EVCS SHALL COMPLY WITH AT LEAST ONE OF THE FOLLOWING OPTIONS:  
THE CHARGING SPACE SHALL BE LOCATED ADJACENT TO AN ACCESSIBLE PARKING SPACE MEETING THE REQUIREMENTS OF THE CALIFORNIA BUILDING CODE, CHAPTER 11A, TO ALLOW USE OF THE EV CHARGER FROM THE ACCESSIBLE PARKING SPACE.

THE CHARGING SPACE SHALL BE LOCATED ON AN ACCESSIBLE ROUTE, AS DEFINED IN THE CALIFORNIA BUILDING CODE, CHAPTER 2, TO THE BUILDING.

**EXCEPTION:** ELECTRIC VEHICLE CHARGING STATIONS DESIGNED AND CONSTRUCTED IN COMPLIANCE WITH THE CALIFORNIA BUILDING CODE, CHAPTER 11B, ARE NOT REQUIRED TO COMPLY WITH SECTION 4.106.4.2.2.1 AND SECTION 4.106.4.2.2.1.2, ITEM 3.

**4.106.4.2.2.1.2 ELECTRIC VEHICLE CHARGING STATIONS (EVCS) DIMENSIONS**  
THE CHARGING SPACES SHALL BE DESIGNED TO COMPLY WITH THE FOLLOWING:

1. THE MINIMUM LENGTH OF EACH EV SPACE SHALL BE 18 FEET.  
2. THE MINIMUM WIDTH OF EACH EV SPACE SHALL BE 9 FEET.  
3. ONE IN EVERY 25 CHARGING SPACES, BUT NOT LESS THAN ONE, SHALL ALSO HAVE AN 8-FOOT WIDE MINIMUM AISLE, A 5-FOOT WIDE MINIMUM AISLE SHALL BE PERMITTED PROVIDED THE MINIMUM WIDTH OF THE EV SPACE IS 12 FEET.  
a. SURFACE SLOPE FOR THIS EV SPACE AND THE AISLE SHALL NOT EXCEED 1 UNIT VERTICAL IN 48 UNITS HORIZONTAL (2.083 PERCENT SLOPE) IN ANY DIRECTION.

**4.106.4.2.2.1.3 ACCESSIBLE EV SPACES**  
IN ADDITION TO THE REQUIREMENTS IN SECTIONS 4.106.4.2.2.1.1 AND 4.106.4.2.2.1.2, ALL EVSE, WHEN INSTALLED, SHALL COMPLY WITH THE ACCESSIBILITY PROVISIONS FOR EV CHARGERS IN THE CALIFORNIA BUILDING CODE, CHAPTER 11B, AND THE CALIFORNIA BUILDING CODE, CHAPTER 11A, SECTION 1109A.

**4.106.4.2.3 EV SPACE REQUIREMENTS**

**1. SINGLE EV SPACE REQUIRED.** INSTALL A LISTED RACEWAY CAPABLE OF ACCOMMODATING A 208/240-VOLT DEDICATED BRANCH CIRCUIT. THE RACEWAY SHALL NOT BE LESS THAN TRADE SIZE 1 (NOMINAL 1-INCH INSIDE DIAMETER). THE RACEWAY SHALL ORIGINATE AT THE MAIN SERVICE OR SUBPANEL AND SHALL TERMINATE INTO A LISTED CABINET, BOX OR ENCLOSURE IN CLOSE PROXIMITY TO THE LOCATION OF THE PROPOSED LOCATION OF THE EV SPACE. CONSTRUCTION DOCUMENTS SHALL IDENTIFY THE RACEWAY TERMINATION POINT, RECEPTACLE OR CHARGER LOCATION, AS APPLICABLE. THE SERVICE PANEL AND/OR SUBPANEL SHALL HAVE A 40-AMPERE MINIMUM DEDICATED BRANCH CIRCUIT, INCLUDING BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE INSTALLED, OR SPACE(S) RESERVED TO PERMIT INSTALLATION OF A BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE.  
**EXCEPTION:** A RACEWAY IS NOT REQUIRED IF A MINIMUM 40-AMPERE 208/240-VOLT DEDICATED EV BRANCH CIRCUIT IS INSTALLED IN CLOSE PROXIMITY TO THE LOCATION OR THE PROPOSED LOCATION OF THE EV SPACE, AT THE TIME OF ORIGINAL CONSTRUCTION IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.

**4.106.4.2.4 IDENTIFICATION**  
THE SERVICE PANEL OR SUBPANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE OVERCURRENT PROTECTIVE DEVICE SPACE(S) RESERVED FOR FUTURE EV CHARGING PURPOSES AS "EV CAPABLE" IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.

**4.106.4.2.5 ELECTRIC VEHICLE READY SPACE SIGNAGE**  
ELECTRIC VEHICLE READY SPACES SHALL BE IDENTIFIED BY SIGNAGE OR PAVEMENT MARKINGS, IN COMPLIANCE WITH CALTRANS TRAFFIC OPERATIONS POLICY DIRECTIVE 13-01 (ZERO EMISSION VEHICLE SIGNS AND PAVEMENT MARKINGS) OR ITS SUCCESSOR(S).

**4.106.4.3 ELECTRIC VEHICLE CHARGING FOR ADDITIONS AND ALTERATIONS OF PARKING FACILITIES SERVING EXISTING MULTIFAMILY BUILDINGS**  
WHEN NEW PARKING FACILITIES ARE ADDED OR ELECTRICAL SYSTEMS OR LIGHTING OF EXISTING PARKING FACILITIES ARE ADDED OR ALTERED AND THE WORK REQUIRES A BUILDING PERMIT, TEN (10) PERCENT OF THE TOTAL NUMBER OF PARKING SPACES ADDED OR ALTERED SHALL BE ELECTRIC VEHICLE CHARGING SPACES (EV SPACES) CAPABLE OF SUPPORTING FUTURE LEVEL 2 EVSE.

**NOTES:**  
a. CONSTRUCTION DOCUMENTS ARE INTENDED TO DEMONSTRATE THE PROJECT'S CAPABILITY AND CAPACITY FOR FACILITATING FUTURE EV CHARGING.  
b. THERE IS NO REQUIREMENT FOR EV SPACES TO BE CONSTRUCTED OR AVAILABLE UNTIL RECEPTACLES FOR EV CHARGING OR EV CHARGERS ARE INSTALLED FOR USE.

**2. MULTIPLE EV SPACES REQUIRED.** CONSTRUCTION DOCUMENTS SHALL INDICATE THE RACEWAY TERMINATION POINT AND THE LOCATION OF INSTALLED OR FUTURE EV SPACES, RECEPTACLES OR EV CHARGERS. CONSTRUCTION DOCUMENTS SHALL ALSO PROVIDE INFORMATION ON AMPERAGE OF INSTALLED OR FUTURE RECEPTACLES OR EVSE, RACEWAY METHOD(S), WIRING SCHEMATICS AND ELECTRICAL LOAD CALCULATIONS. PLAN DESIGN SHALL BE BASED UPON A 40-AMPERE MINIMUM BRANCH CIRCUIT. REQUIRED RACEWAYS AND RELATED COMPONENTS THAT ARE PLANNED TO BE INSTALLED UNDERGROUND, ENCLOSED, INACCESSIBLE OR IN CONCEALED AREAS AND SPACES SHALL BE INSTALLED AT THE TIME OF ORIGINAL CONSTRUCTION.

**EXCEPTION:** A RACEWAY IS NOT REQUIRED IF A MINIMUM 40-AMPERE 208/240-VOLT DEDICATED EV BRANCH CIRCUIT IS INSTALLED IN CLOSE PROXIMITY TO THE LOCATION OR THE PROPOSED LOCATION OF THE EV SPACE, AT THE TIME OF ORIGINAL CONSTRUCTION IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.

**4.106.4.2.4 IDENTIFICATION**  
THE SERVICE PANEL OR SUBPANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE OVERCURRENT PROTECTIVE DEVICE SPACE(S) RESERVED FOR FUTURE EV CHARGING PURPOSES AS "EV CAPABLE" IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.

**4.106.4.2.5 ELECTRIC VEHICLE READY SPACE SIGNAGE**  
ELECTRIC VEHICLE READY SPACES SHALL BE IDENTIFIED BY SIGNAGE OR PAVEMENT MARKINGS, IN COMPLIANCE WITH CALTRANS TRAFFIC OPERATIONS POLICY DIRECTIVE 13-01 (ZERO EMISSION VEHICLE SIGNS AND PAVEMENT MARKINGS) OR ITS SUCCESSOR(S).

**4.106.4.3 ELECTRIC VEHICLE CHARGING FOR ADDITIONS AND ALTERATIONS OF PARKING FACILITIES SERVING EXISTING MULTIFAMILY BUILDINGS**  
WHEN NEW PARKING FACILITIES ARE ADDED OR ELECTRICAL SYSTEMS OR LIGHTING OF EXISTING PARKING FACILITIES ARE ADDED OR ALTERED AND THE WORK REQUIRES A BUILDING PERMIT, TEN (10) PERCENT OF THE TOTAL NUMBER OF PARKING SPACES ADDED OR ALTERED SHALL BE ELECTRIC VEHICLE CHARGING SPACES (EV SPACES) CAPABLE OF SUPPORTING FUTURE LEVEL 2 EVSE.

**NOTES:**  
1. CONSTRUCTION DOCUMENTS ARE INTENDED TO DEMONSTRATE THE PROJECT'S CAPABILITY AND CAPACITY FOR FACILITATING FUTURE EV CHARGING.  
2. THERE IS NO REQUIREMENT FOR EV SPACES TO BE CONSTRUCTED OR AVAILABLE UNTIL EV CHARGERS ARE INSTALLED FOR USE.

### DIVISION 4.2 ENERGY EFFICIENCY

#### 4.201 GENERAL

**4.201.1 SCOPE.**  
FOR THE PURPOSES OF MANDATORY ENERGY EFFICIENCY STANDARDS IN THIS CODE, THE CALIFORNIA ENERGY COMMISSION WILL CONTINUE TO ADOPT MANDATORY STANDARDS.

### DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION

#### 4.303 INDOOR WATER USE

**4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS**  
PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL COMPLY WITH THE FOLLOWING:

**4.303.1.1 WATER CLOSETS**  
THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK TYPE TOILET.

**NOTE:** THE EFFECTIVE FLUSH VOLUME OF DUAL FLUSH TOILETS IS DEFINED AS THE COMPOSITE AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH.

**4.303.1.2 URINALS**  
THE EFFECTIVE FLUSH VOLUME OF WALL-MOUNTED URINALS SHALL NOT EXCEED 0.125 GALLONS PER FLUSH. THE EFFECTIVE FLUSH VOLUME OF ALL OTHER URINALS SHALL NOT EXCEED 0.5 GALLONS PER FLUSH.

**4.303.1.3 SHOWERHEADS**

**4.303.1.3.1 SINGLE SHOWERHEAD**  
SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 80 PSI. SHOWERHEADS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR SHOWERHEADS.

**4.303.1.3.2 MULTIPLE SHOWERHEADS SERVING ONE SHOWER**  
WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL SHOWERHEADS AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 80 PSI, OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME.

**NOTE:** A HAND HELED SHOWER SHALL BE CONSIDERED A SHOWERHEAD.

#### 4.303.1.4 FAUCETS

**4.303.1.4.1 RESIDENTIAL LAVATORY FAUCETS**  
THE MAXIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT EXCEED 1.2 GALLONS PER MINUTE AT 60 PSI. THE MINIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT BE LESS THAN 0.8 GALLONS PER MINUTE AT 20 PSI.

**4.303.1.4.2 LAVATORY FAUCETS IN COMMON AND PUBLIC USE AREAS**  
THE MAXIMUM FLOW RATE OF LAVATORY FAUCETS INSTALLED IN COMMON AND PUBLIC USE AREAS (OUTSIDE OF DWELLINGS OR SLEEPING UNITS) IN RESIDENTIAL BUILDINGS SHALL NOT EXCEED 0.5 GALLONS PER MINUTE AT 60 PSI.

**4.303.1.4.3 METERING FAUCETS**  
METERING FAUCETS WHEN INSTALLED IN RESIDENTIAL BUILDINGS SHALL NOT DELIVER MORE THAN 0.2 GALLONS PER CYCLE.

**4.303.1.4.4 KITCHEN FAUCETS**  
THE MAXIMUM FLOW RATE OF KITCHEN FAUCETS SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI.

**NOTE:** WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION.

**4.303.2 SUBMETERS FOR MULTIFAMILY BUILDINGS AND DWELLING UNITS IN MIXED-USE RESIDENTIAL/COMMERCIAL BUILDINGS**  
SUBMETERS SHALL BE INSTALLED TO MEASURE WATER USAGE OF INDIVIDUAL RENTAL DWELLING UNITS IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE.

**4.303.2 SUBMETERS FOR MULTIFAMILY BUILDINGS AND DWELLING UNITS IN MIXED-USE RESIDENTIAL/COMMERCIAL BUILDINGS**  
SUBMETERS SHALL BE INSTALLED TO MEASURE WATER USAGE OF INDIVIDUAL RENTAL DWELLING UNITS IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE.

**4.303.3 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS**  
PLUMBING FIXTURES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, AND SHALL MEET THE APPLICABLE STANDARDS REFERENCED IN TABLE 1701.1 OF THE CALIFORNIA PLUMBING CODE.

**NOTE:**  
THIS TABLE COMPILES THE DATA IN SECTION 4.303.1 AND IS INCLUDED AS A CONVENIENCE FOR THE USER.

TABLE - MAXIMUM FIXTURE WATER USE	
FIXTURE TYPE	FLOW RATE
SHOWER HEADS (RESIDENTIAL)	1.8 GMP @ 80 PSI
LAVATORY FAUCETS (RESIDENTIAL)	MAX. 1.2 GPM @ 60 PSI MIN. 0.8 GPM @ 20 PSI
LAVATORY FAUCETS IN COMMON & PUBLIC USE AREAS	0.5 GPM @ 60 PSI
KITCHEN FAUCETS	1.8 GPM @ 60 PSI
METERING FAUCETS	0.2 GAL/CYCLE
WATER CLOSET	1.28 GAL/FLUSH
URINALS	0.125 GAL/FLUSH

#### 4.304 OUTDOOR WATER USE

**4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS**  
RESIDENTIAL DEVELOPMENTS SHALL COMPLY WITH A LOCAL WATER EFFICIENT LANDSCAPE ORDINANCE OR THE CURRENT CALIFORNIA DEPARTMENT OF WATER RESOURCES' MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO), WHICHEVER IS MORE STRINGENT.  
**NOTES:**  
1. THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) IS LOCATED IN THE CALIFORNIA CODE OF REGULATIONS, TITLE 23, CHAPTER 2.7, DIVISION 2.  
MWELO AND SUPPORTING DOCUMENTS, INCLUDING A WATER BUDGET CALCULATOR, ARE AVAILABLE AT: [HTTPS://WWW.WATER.CA.GOV/](https://www.water.ca.gov/)

### DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

#### 4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE

**4.406.1 RODENT PROOFING**  
ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENINGS IN SOLE/BOTTOM PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY LOCOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY OR A SIMILAR METHOD ACCEPTABLE TO THE ENFORCING AGENCY.

#### 4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

**4.408.1 CONSTRUCTION WASTE MANAGEMENT**  
RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 65 PERCENT OF



# 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

## RESIDENTIAL MANDATORY MEASURES (SHEET 2)

### 4.410 BUILDING MAINTENANCE AND OPERATION

#### 4.410.1 OPERATION AND MAINTENANCE MANUAL

AT THE TIME OF FINAL INSPECTION, A MANUAL, COMPACT DISC, WEB-BASED REFERENCE OR OTHER MEDIA ACCEPTABLE TO THE ENFORCING AGENCY WHICH INCLUDES ALL OF THE FOLLOWING SHALL BE PLACED IN THE BUILDING:

- DIRECTIONS TO THE OWNER OR OCCUPANT THAT THE MANUAL SHALL REMAIN WITH THE BUILDING THROUGHOUT THE LIFE CYCLE OF THE STRUCTURE.
- OPERATION AND MAINTENANCE INSTRUCTIONS FOR THE FOLLOWING:
  - EQUIPMENT AND APPLIANCES, INCLUDING WATER-SAVING DEVICES AND SYSTEMS, HVAC SYSTEMS, PHOTOVOLTAIC SYSTEMS, ELECTRIC VEHICLE CHARGERS, WATER-HEATING SYSTEMS AND OTHER MAJOR APPLIANCES AND EQUIPMENT.
  - ROOF AND YARD DRAINAGE, INCLUDING GUTTERS AND DOWNSPOUTS.
  - SPACE CONDITIONING SYSTEMS, INCLUDING CONDENSERS AND AIR FILTERS.
  - LANDSCAPE IRRIGATION SYSTEMS.
  - WATER REUSE SYSTEMS.
- INFORMATION FROM LOCAL UTILITY, WATER AND WASTE RECOVERY PROVIDERS ON METHODS TO FURTHER REDUCE RESOURCE CONSUMPTION, INCLUDING RECYCLE PROGRAMS AND LOCATIONS.
- PUBLIC TRANSPORTATION AND/OR CARPOOL OPTIONS AVAILABLE IN THE AREA.
- EDUCATIONAL MATERIAL ON THE POSITIVE IMPACTS OF AN INTERIOR RELATIVE HUMIDITY BETWEEN 30-80 PERCENT AND WHAT METHODS AN OCCUPANT MAY USE TO MAINTAIN THE RELATIVE HUMIDITY LEVEL IN THAT RANGE.
- INFORMATION ABOUT WATER-CONSERVING LANDSCAPE AND IRRIGATION DESIGN AND CONTROLLERS WHICH CONSERVE WATER.
- INSTRUCTIONS FOR MAINTAINING GUTTERS AND DOWNSPOUTS AND THE IMPORTANCE OF DIVERTING WATER AT LEAST 5 FEET AWAY FROM THE FOUNDATION.
- INFORMATION ON REQUIRED ROUTINE MAINTENANCE MEASURES, INCLUDING, BUT NOT LIMITED TO, CAULKING, PAINTING, GRADING AROUND THE BUILDING, ETC.
- INFORMATION ABOUT STATE SOLAR ENERGY AND INCENTIVE PROGRAMS AVAILABLE.
- A COPY OF ALL SPECIAL INSPECTION VERIFICATIONS REQUIRED BY THE ENFORCING AGENCY OR THIS CODE.
- INFORMATION FROM CAL FIRE ON MAINTENANCE OF DEFENSIBLE SPACE AROUND RESIDENTIAL STRUCTURES.
- INFORMATION AND/OR DRAWINGS IDENTIFYING THE LOCATION OF GRAB BAR REINFORCEMENTS.

#### 4.410.2 RECYCLING BY OCCUPANTS

WHERE 5 OR MORE MULTIFAMILY DWELLING UNITS ARE CONSTRUCTED ON A BUILDING SITE, PROVIDE READILY ACCESSIBLE AREA(S) THAT SERVES ALL BUILDINGS ON THE SITE AND IS IDENTIFIED FOR THE DEPOSITING, STORAGE AND COLLECTION OF NON-HAZARDOUS MATERIALS FOR RECYCLING, INCLUDING (AT A MINIMUM) PAPER, CORRUGATED CARDBOARD, GLASS, PLASTICS, ORGANIC WASTE, AND METALS, OR MEEL A LAWFULLY ENACTED LOCAL RECYCLING ORDINANCE, IF MORE RESTRICTIVE.

**EXCEPTION:**  
RURAL JURISDICTIONS THAT MEET AND APPLY FOR THE EXEMPTION IN PUBLIC RESOURCES CODE SECTION 42649.82 (A)(2)(A) ET SEQ. ARE NOT REQUIRED TO COMPLY WITH THE ORGANIC WASTE PORTION OF THIS SECTION.

## DIVISION 4.5 ENVIRONMENTAL QUALITY

### 4.501 GENERAL

#### 4.501.1 SCOPE

THE PROVISIONS OF THIS CHAPTER SHALL OUTLINE MEANS OF REDUCING THE QUANTITY OF AIR CONTAMINANTS THAT ARE ODOROUS, IRRITATING AND/OR HARMFUL TO THE COMFORT AND WELL-BEING OF A BUILDING'S INSTALLERS, OCCUPANTS AND NEIGHBORS.

### 4.503 FIREPLACES

#### 4.503.1 GENERAL

ANY INSTALLED GAS FIREPLACE SHALL BE A DIRECT-VENT SEALED-COMBUSTION TYPE. ANY INSTALLED WOODSTOVE OR PELLET STOVE SHALL COMPLY WITH U.S. EPA NEW SOURCE PERFORMANCE STANDARDS (NSPS) EMISSION LIMITS AS APPLICABLE, AND SHALL HAVE A PERMANENT LABEL INDICATING THEY ARE CERTIFIED TO MEET THE EMISSION LIMITS. WOODSTOVES, PELLET STOVES AND FIREPLACES SHALL ALSO COMPLY WITH APPLICABLE LOCAL ORDINANCES.

### 4.504 POLLUTANT CONTROL

#### 4.504.1 COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION

AT THE TIME OF ROUGH INSTALLATION, DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF WATER, DUST AND DEBRIS, WHICH MAY ENTER THE SYSTEM.

#### 4.504.2 FINISH MATERIAL POLLUTANT CONTROL

FINISH MATERIALS SHALL COMPLY WITH THIS SECTION.

#### 4.504.2.1 ADHESIVES, SEALANTS AND CAULKS

ADHESIVES, SEALANTS AND CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS UNLESS MORE STRINGENT LOCAL OR REGIONAL AIR POLLUTION OR AIR QUALITY MANAGEMENT DISTRICT RULES APPLY:

- 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 TABLE 4.504.1 OR 4.504.2, AS APPLICABLE. 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.
- 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 1 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.

#### 4.504.2.2 PAINTS AND COATINGS

ARCHITECTURAL PAINTS AND COATINGS SHALL COMPLY WITH VOC LIMITS IN TABLE 1 OF THE ARB ARCHITECTURAL SUGGESTED CONTROL MEASURE, AS SHOWN IN TABLE 4.504.3, 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 4.504.3 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 4.504.3 SHALL APPLY.

#### 4.504.2.3 AEROSOL PAINTS AND COATINGS

AEROSOL PAINTS AND COATINGS SHALL MEET THE PRODUCT-WEIGHTED MIR LIMITS FOR ROC IN SECTION 94522(A)(2) AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS AND OZONE DEPLETING SUBSTANCES, IN SECTIONS 94522(E)(1) AND (F)(1) 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.

#### 4.504.2.4 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:

- MANUFACTURER'S PRODUCT SPECIFICATION.
- FIELD VERIFICATION OF ON-SITE PRODUCT CONTAINERS.

### 4.504.3 CARPET SYSTEMS

#### 4.504.3.1 CARPET CUSHION

ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.2, JANUARY 2017 (EMISSION TESTING METHOD FOR CALIFORNIA SPECIFICATION 01350).

SEE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH'S WEBSITE FOR CERTIFICATION PROGRAMS AND TESTING LABS.

HTTPS://WWW.CDPH.CA.GOV/PROGRAMS/CCDPHP/DEODC/EHLB/IAQ/PAGES/VOC.ASPX

#### 4.504.3.2 CARPET ADHESIVE

ALL CARPET ADHESIVE SHALL MEET THE REQUIREMENTS OF TABLE 4.504.1.

### 4.504.4 RESILIENT FLOORING SYSTEMS

WHERE RESILIENT FLOORING IS INSTALLED, AT LEAST 80 PERCENT OF FLOOR AREA RECEIVING RESILIENT FLOORING SHALL MEET THE REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.2, JANUARY 2017 (EMISSION TESTING METHOD FOR CALIFORNIA SPECIFICATION 01350).

SEE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH'S WEBSITE FOR CERTIFICATION PROGRAMS AND TESTING LABS.

HTTPS://WWW.CDPH.CA.GOV/PROGRAMS/CCDPHP/DEODC/EHLB/IAQ/PAGES/VOC.ASPX

### 4.504.5 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.) AS SHOWN IN TABLE 4.504.5.

#### 4.504.5.1 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:

- PRODUCT CERTIFICATIONS AND SPECIFICATIONS.
- CHAIN OF CUSTODY CERTIFICATIONS.
- PRODUCT LABELED AND INVOICED AS MEETING THE COMPOSITE WOOD PRODUCTS REGULATION (SEE CCR, TITLE 17, SECTION 93120, ET SEQ.).
- EXTERIOR GRADE PRODUCTS MARKED AS MEETING THE PS-1 OR PS-2 STANDARDS OF THE ENGINEERED WOOD ASSOCIATION, THE AUSTRALIAN AS/NZS 2269, EUROPEAN 636 33, AND CANADIAN CSA 0121, CSA 0151, CSA 0153 AND CSA 0325 STANDARDS.
- OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY.

TABLE 4.504.1 - ADHESIVE VOC LIMIT

(LESS WATER AND LESS EXEMPT COMPOUNDS IN GRAMS PER LITER)

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOORING 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 ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	CURRENT VOC LIMIT
PVC WELDING	510
CPVC WELDING	490
ABG 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 ADHESIVES	250
SUBSTRATE SPECIFIC APPLICATIONS	CURRENT VOC LIMIT
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

- IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.
- FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

TABLE 4.504.2 - SEALANT VOC LIMIT

(LESS WATER AND LESS EXEMPT COMPOUNDS IN GRAMS PER LITER)

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

TABLE 4.504.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS<sup>2,3</sup>

(GRAMS OF VOC PER LITER OF COATING, LESS WATER AND LESS EXEMPT COMPOUNDS)

COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT-HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	CURRENT VOC LIMIT
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	150
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	280
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS <sup>1</sup>	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
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

- GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER AND INCLUDING EXEMPT COMPOUNDS.
- THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.
- VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEBRUARY 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

TABLE 4.504.5 - FORMALDEHYDE LIMITS<sup>1</sup>

(MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION)

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLEBOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD <sup>2</sup>	0.13

- VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.
- THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCH (8MM).

## DIVISION 4.5 ENVIORNMENTAL QUALITY CONTINUED

### 4.505 INTERIOR MOISTURE CONTROL

#### 4.505.1 GENERAL

BUILDINGS SHALL MEET OR EXCEED THE PROVISIONS OF THE CALIFORNIA BUILDING STANDARDS CODE.

#### 4.505.2 CONCRETE SLAB FOUNDATIONS

CONCRETE SLAB FOUNDATIONS REQUIRED TO HAVE A VAPOR RETARDER BY THE CALIFORNIA BUILDING CODE CHAPTER 19 OR CONCRETE SLAB-ON-GROUND FLOORS REQUIRED TO HAVE A VAPOR RETARDER BY THE CALIFORNIA RESIDENTIAL CODE, CHAPTER 5, SHALL ALSO COMPLY WITH THIS SECTION.

#### 4.505.2.1 CAPILLARY BREAK

A CAPILLARY BREAK SHALL BE INSTALLED IN COMPLIANCE WITH AT LEAST ONE OF THE FOLLOWING:

- A 4-INCH-THICK (101.6 MM) BASE OF 1/2 INCH (12.7 MM) OR LARGER CLEAN AGGREGATE SHALL BE PROVIDED WITH A VAPOR RETARDER IN DIRECT CONTACT WITH CONCRETE AND A CONCRETE MIX DESIGN, WHICH WILL ADDRESS BLEEDING, SHRINKAGE, AND CURLING, SHALL BE USED. FOR ADDITIONAL INFORMATION, SEE AMERICAN CONCRETE INSTITUTE, ACI 302.2R-06.
- OTHER EQUIVALENT METHODS APPROVED BY THE ENFORCING AGENCY.
- A SLAB DESIGN SPECIFIED BY A LICENSED DESIGN PROFESSIONAL.

#### 4.505.3 MOISTURE CONTENT OF A BUILDING

BUILDING MATERIALS WITH VISIBLE SIGNS OF WATER DAMAGE SHALL NOT BE INSTALLED. WALL AND FLOOR FRAMING SHALL NOT BE ENCLOSED WHEN THE FRAMING MEMBERS EXCEED 19-PERCENT MOISTURE CONTENT. MOISTURE CONTENT SHALL BE VERIFIED IN COMPLIANCE WITH THE FOLLOWING:

- MOISTURE CONTENT SHALL BE DETERMINED WITH EITHER A PROBE-TYPE OR CONTACT-TYPE MOISTURE METER. EQUIVALENT MOISTURE VERIFICATION METHODS MAY BE APPROVED BY THE ENFORCING AGENCY AND SHALL SATISFY REQUIREMENTS FOUND IN SECTION 101.8 OF THIS CODE.
- MOISTURE READINGS SHALL BE TAKEN AT A POINT 2 FEET (610 MM) TO 4 FEET (1219 MM) FROM THE GRADE STAMPED END OF EACH PIECE TO BE VERIFIED.
- AT LEAST THREE RANDOM MOISTURE READINGS SHALL BE PERFORMED ON WALL AND FLOOR FRAMING WITH DOCUMENTATION ACCEPTABLE TO THE ENFORCING AGENCY PROVIDED AT THE TIME OF APPROVAL TO ENCLOSE THE WALL AND FLOOR FRAMING.

INSULATION PRODUCTS WHICH ARE VISIBLY WET OR HAVE A HIGH MOISTURE CONTENT SHALL BE REPLACED OR ALLOWED TO DRY PRIOR TO ENCLOSURE IN WALL OR FLOOR CAVITIES. WET-APPLIED INSULATION PRODUCTS SHALL FOLLOW THE MANUFACTURERS' DRYING RECOMMENDATIONS PRIOR TO ENCLOSURE.

### 4.506 INDOOR AIR QUALITY AND EXHAUST

#### 4.506.1 BATHROOM EXHAUST FANS

EACH BATHROOM SHALL BE MECHANICALLY VENTILATED AND SHALL COMPLY WITH THE FOLLOWING:

- FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING.
- UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY A HUMIDITY CONTROL.
  - HUMIDITY CONTROLS SHALL BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF 45 PERCENT TO A MAXIMUM OF 80 PERCENT. A HUMIDITY CONTROL MAY UTILIZE MANUAL OR AUTOMATIC MEANS OF ADJUSTMENT.
  - A HUMIDITY CONTROL MAY BE A SEPARATE COMPONENT TO THE EXHAUST FAN AND IS NOT REQUIRED TO BE INTEGRAL (I.E., BUILT-IN).

#### NOTES:

- FOR THE PURPOSES OF THIS SECTION, A BATHROOM IS A ROOM WHICH CONTAINS A BATHTUB, SHOWER, OR TUB/ SHOWER COMBINATION.
- LIGHTING INTEGRAL TO BATHROOM EXHAUST FANS SHALL COMPLY WITH THE CALIFORNIA ENERGY CODE.

### 4.507 ENVIORNMENTAL COMFORT

#### 4.507.1 RESERVED

#### 4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN

HEATING AND AIR-CONDITIONING SYSTEMS SHALL BE SIZED, DESIGNED AND HAVE THEIR EQUIPMENT SELECTED USING THE FOLLOWING METHODS:

- THE HEAT LOSS AND HEAT GAIN IS ESTABLISHED ACCORDING TO ANSI/ACCA 2 MANUAL J—2016 (RESIDENTIAL LOAD CALCULATION), ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
- DUCT SYSTEMS ARE SIZED ACCORDING TO ANSI/ACCA 1 MANUAL D—2016 (RESIDENTIAL DUCT SYSTEMS), ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
- SELECT HEATING AND COOLING EQUIPMENT ACCORDING TO ANSI/ACCA 3 MANUAL S—2016 (RESIDENTIAL EQUIPMENT SELECTION) OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.

**EXCEPTION:** USE OF ALTERNATE DESIGN TEMPERATURES NECESSARY TO ENSURE THE SYSTEMS FUNCTION ARE ACCEPTABLE.

## CHAPTER 7 - INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

### 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:

- STATE CERTIFIED APPRENTICESHIP PROGRAMS.
- PUBLIC UTILITY TRAINING PROGRAMS.
- TRAINING PROGRAMS SPONSORED BY TRADE, LABOR OR STATEWIDE ENERGY CONSULTING OR VERIFICATION ORGANIZATIONS.
- PROGRAMS SPONSORED BY MANUFACTURING ORGANIZATIONS.
- OTHER PROGRAMS ACCEPTABLE TO THE ENFORCING AGENCY.

### 702.2 SPECIAL INSPECTION [HCD]

WHEN REQUIRED BY THE ENFORCING AGENCY, THE OWNER OR THE RESPONSIBLE ENTITY ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTION OR OTHER DUTIES NECESSARY TO SUBSTANTIATE COMPLIANCE WITH THIS CODE. SPECIAL INSPECTORS SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE ENFORCING AGENCY FOR THE PARTICULAR TYPE OF INSPECTION OR TASK TO BE PERFORMED. IN ADDITION TO OTHER CERTIFICATIONS OR QUALIFICATIONS ACCEPTABLE TO THE ENFORCING AGENCY, THE FOLLOWING CERTIFICATIONS OR EDUCATION MAY BE CONSIDERED BY THE ENFORCING AGENCY WHEN EVALUATING THE QUALIFICATIONS OF A SPECIAL INSPECTOR:

- CERTIFICATION BY A NATIONAL OR REGIONAL GREEN BUILDING PROGRAM OR STANDARD PUBLISHER.
- CERTIFICATION BY A STATEWIDE ENERGY CONSULTING OR VERIFICATION ORGANIZATION, SUCH AS HERS RATERS, BUILDING PERFORMANCE CONTRACTORS, AND HOME ENERGY AUDITORS.
- SUCCESSFUL COMPLETION OF A THIRD PARTY APPRENTICE TRAINING PROGRAM IN THE APPROPRIATE TRADE.
- OTHER PROGRAMS ACCEPTABLE TO THE ENFORCING AGENCY.

#### NOTES:

- SPECIAL INSPECTORS SHALL BE INDEPENDENT ENTITIES WITH NO FINANCIAL INTEREST IN THE MATERIALS OR THE PROJECT THEY ARE INSPECTING FOR COMPLIANCE WITH THIS CODE.
- HERS RATERS ARE SPECIAL INSPECTORS CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION (CEC) TO RATE HOMES IN CALIFORNIA ACCORDING TO THE HOME ENERGY RATING SYSTEM (HERS).

[BSC] WHEN REQUIRED BY THE ENFORCING AGENCY, THE OWNER OR THE RESPONSIBLE ENTITY ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTION OR OTHER DUTIES NECESSARY TO SUBSTANTIATE COMPLIANCE WITH THIS CODE. SPECIAL INSPECTORS SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE ENFORCING AGENCY FOR THE PARTICULAR TYPE OF INSPECTION OR TASK TO BE PERFORMED. IN ADDITION, THE SPECIAL INSPECTOR SHALL HAVE A CERTIFICATION FROM A RECOGNIZED STATE, NATIONAL OR INTERNATIONAL ASSOCIATION, AS DETERMINED BY THE LOCAL AGENCY. THE AREA OF CERTIFICATION SHALL BE CLOSELY RELATED TO THE PRIMARY JOB FUNCTION, AS DETERMINED BY THE LOCAL AGENCY.

#### NOTE:

SPECIAL INSPECTORS SHALL BE INDEPENDENT ENTITIES WITH NO FINANCIAL INTEREST IN THE MATERIALS OR THE PROJECT THEY ARE INSPECTING FOR COMPLIANCE WITH THIS CODE.

## 703 VERIFICATIONS

### 703.1 DOCUMENTATION

DOCUMENTATION USED TO SHOW COMPLIANCE WITH THIS CODE SHALL INCLUDE BUT IS NOT LIMITED TO, CONSTRUCTION DOCUMENTS, PLANS, SPECIFICATIONS, BUILDER OR INSTALLER CERTIFICATION, INSPECTION REPORTS, OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY WHICH DEMONSTRATE SUBSTANTIAL CONFORMANCE. WHEN SPECIFIC DOCUMENTATION OR SPECIAL INSPECTION IS NECESSARY TO VERIFY COMPLIANCE, THAT METHOD OF COMPLIANCE WILL BE SPECIFIED IN THE APPROPRIATE SECTION OR IDENTIFIED APPLICABLE CHECKLIST.



THESE PLANS ARE PROVIDED BY THE COUNTY OF SAN LUIS OBISPO AS PART OF THE PRE-APPROVED ADU PROGRAM AND ARE PUBLIC DOMAIN. THERE CANNOT BE A CHARGE TO PROVIDE THESE PLANS. NO ALTERATIONS TO THESE PLANS ARE ALLOWED. ALL ALTERATIONS MUST BE DONE UNDER A SEPARATE PERMIT ONCE THE BUILDING PERMIT FOR THE ADU HAS BEEN ISSUED AND FINAL INSPECTION COMPLETED. IF YOU DO NOT HAVE THE CONSTRUCTION KNOWLEDGE AND EXPERIENCE TO CONTRUCT THESE PLANS WITHOUT FURTHER DETAILS, IT IS RECOMMENDED YOU HIRE A CONTRACTOR TO DO THE CONSTRUCTION. THE CITY WILL NOT PROVIDE FURTHER INFORMATION OR DETAILS AND BUILDING INSPECTORS WILL NOT PROVIDE STEP BY STEP INSTRUCTIONS IN THE FIELD.

COUNTY OF SAN LUIS OBISPO  
ACCESSORY DWELLING UNIT  
SAN LUIS OBISPO, CA

CAL GREEN RESIDENTIAL  
REQUIREMENTS

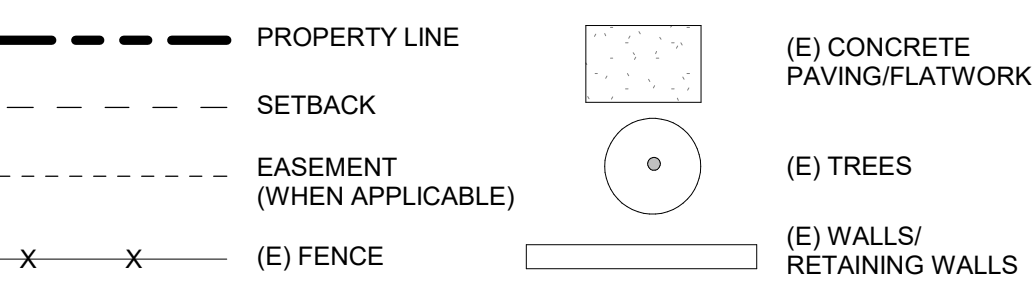
DATE  
11/28/2023  
SHEET

G-202



## SITE PLAN TO BE PROVIDED BY APPLICANT

## SITE PLAN LEGEND



## SITE PLAN CHECKLIST

**ELECTRICAL PANEL:** ☐ **OPTION 1 -** NEW ELECTRICAL MAIN PANEL WITH 225 AMP MINIMUM BUSBAR RATING

☐ **OPTION 2 -** A NEW ELECTRICAL SUBPANEL CONNECTS TO THE ELECTRICAL MAIN PANEL OF THE PRIMARY HOME WITH A 225 AMP MINIMUM BUSBAR RATING. A SEPARATE ELECTRICAL PERMIT SHALL BE PULLED FOR THE ELECTRICAL MAIN PANEL OF THE PRIMARY HOME, ELECTRICAL LOAD CALCULATIONS IS REQUIRED.

IS THE NEW ADU IS 5' - 0" OR LESS TO ANY PROPERTY LINE AND/OR ADU IS 10' - 0" OR LESS FROM ANY ADJACENT BUILDING OR STRUCTURE?

☐ NO      ☐ YES; IF YES, FIRE RATED WALL & ROOF REQUIRED. SEE DETAILS: 21/A-903 & 24/A-903

**NOTE:**

- A. A SEPARATE PERMIT FOR ONSITE WASTEWATER SYSTEM WILL BE REQ'D.  
B. SOILS REPORT TO BE PROVIDED BY OTHERS.  
C. UTILITY, GRADING, AND DRAINAGE PLAN TO BE PROVIDED BY OTHERS.  
D. PROVIDE WASTE RECYCLE FORM FILLED OUT AND SIGNED PRIOR TO ISSUANCE. THE OWNER/APPLICANT/CONTRACTOR/PERSON DOING THE WORK IS REQUIRED TO RECYCLE 75% OF ALL PROJECT CONSTRUCTION AND DEMOLITION DEBRIS.

**FOOTPRINT OF ALL EXISTING AND PROPOSED BUILDINGS**  
PLOT THE PROPOSED ADU BUILDING FOOTPRINT ALONG WITH ANY OTHER EXISTING BUILDINGS ONSITE. THIS INCLUDES ALL STRUCTURES / PORCHES / GAZEBOS. IF AN OPTIONAL COVERED PATIO IS SELECTED, PLEASE PLOT THAT AS WELL.

**AREA OF EXISTING BUILDING**  
INDICATE THE SQUARE FOOTAGE OF THE EXISTING HOUSE

**FOOTPRINT OF PROPOSED ADU**  
REFER TO LEGEND FOR FOOTPRINT AT 10'=1" SCALE

**DRAWING SCALE**  
SITE PLAN SHOULD BE DRAWN TO A MEASURABLE SCALE

**PROPERTY LINES**  
SHOW OUTLINE OF PROPERTY USING DASHED LINE IN LEGEND. INDICATE THE BEARING AND DISTANCE OF THE PROPERTY LINE.

**LABEL YARDS**  
LABEL FRONT, REAR, SIDE YARDS, AS WELL AS DRIVEWAYS, PATHWAYS AND ANY OTHER HARDSCAPE.

**SETBACKS**  
DIMENSION THE DISTANCE BETWEEN BUILDINGS AND PROPOERTY LINES, AS WELL AS BUILDINGS TO OTHER STRUCTURES. SETBACKS TO SIDE AND REAR PROPERTY SIDE SHALL BE A MINIMUM OF (4' - 0"). PROPOSED ADU SHALL BE LOCATED A MINIMUM OF (10' - 0") FROM EXISTING STRUCTURES.

**EASEMENTS**  
REFER TO LEGEND. MUST INCLUDE ALL APPLICABLE EASEMENTS. SETBACK  
PROPOSED STRUCTURE HSALL COMPLY WITH EASEMENT REQUIREMENTS.

**LOCATION OF RAIN WATER LEADERS**  
THE ROOF DRAINS SHOULD DRAIN AWAY FROM THE PROPERTY LINES AND INTO THE LANDSCAPE AREA.

## **LABEL STREETS & SIDEWALKS**

**LABEL ADU AND ADDRESS LOCATION**  
ADU SHALL HAVE THE SAME ADDRESS AS THE PRIMARY RESIDENCE, THE ADDRESS IDENTIFICATION SHALL BE LEGIBLE AND PLACED IN A POSITION THAT IS VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. ADDRESS IDENTIFICATION CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND. ADDRESS SHALL COMPLY WITH **CRC SECTION R319**.

**DIMENSION BUILDING SEPARATION**  
DIMENSION THE DISTANCE BETWEEN THE PROPOSED ADU AND ANY EXISTING STRUCTURES

## SITE PLAN GENERAL NOTES

1. REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS
2. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.

☐ ALL EXISTING/PROPOSED PLANTINGS AND HARDSCAPE SHOWN

**LOT COVERAGE CALCULATION**  
TOTAL FOOTPRINT AREA FOR STRUCTURES ON SITE / LOT AREA

**SWIMMING POOLS**  
ALL EXISTING SWIMMING POOLS SHALL BE SHOWN ON THE SITE PLAN AND SHALL HAVE 10' - 0" MINIMUM SETBACK TO THE NEW ADU STRUCTURE.

**PORCHES**  
THERE SHALL BE NO MORE THAN 30 INCHES MEASURED VERTICALLY TO THE FLOOR OR GRADE BELOW (INCLUDING FLOORS, STAIRS, RAMPS, AND LANDINGS) ANYWHERE MEASURED LESS THAN 36 INCHES HORIZONTALLY TO THE EDGE OF THE PORCH/SLAB/SURFACE OF THE RAIL. INSECT SCREENING SHALL NOT BE CONSIDERED AS A GUARD.

**LOCATION OF EXISTING UTILITIES**  
UTILITIES, POLES, SEWER, DRAINS, ELECTRICAL, GAS METERS AND LINES AND ANY PHOTOVOLTAIC.

**LOCATION OF PROPOSED UTILITIES**  
SANITARY SEWER FROM ADU TO EXISTING SEWER. SEWER LINE TO THE PROPOSED ADU SHALL BE CONNECTED TO THE MAIN LATERAL AT THE PROPERTY LINE OR BEHIND THE SIDEWALK. LATERAL POINT OF CONNECTION INCLUDING REQUIRED CLEANOUTS, WATER LINE TO ADU, ELECTRIC TO ADU INCLUDING ANY NEW METERS OR SUBPANELS, GAS LINE TO ADU.

☐ A. TOTAL DEVELOPED LENGTH OF GAS SYSTEM FROM METER / REGULATOR TO MOST REMOTE GAS OUTLET.

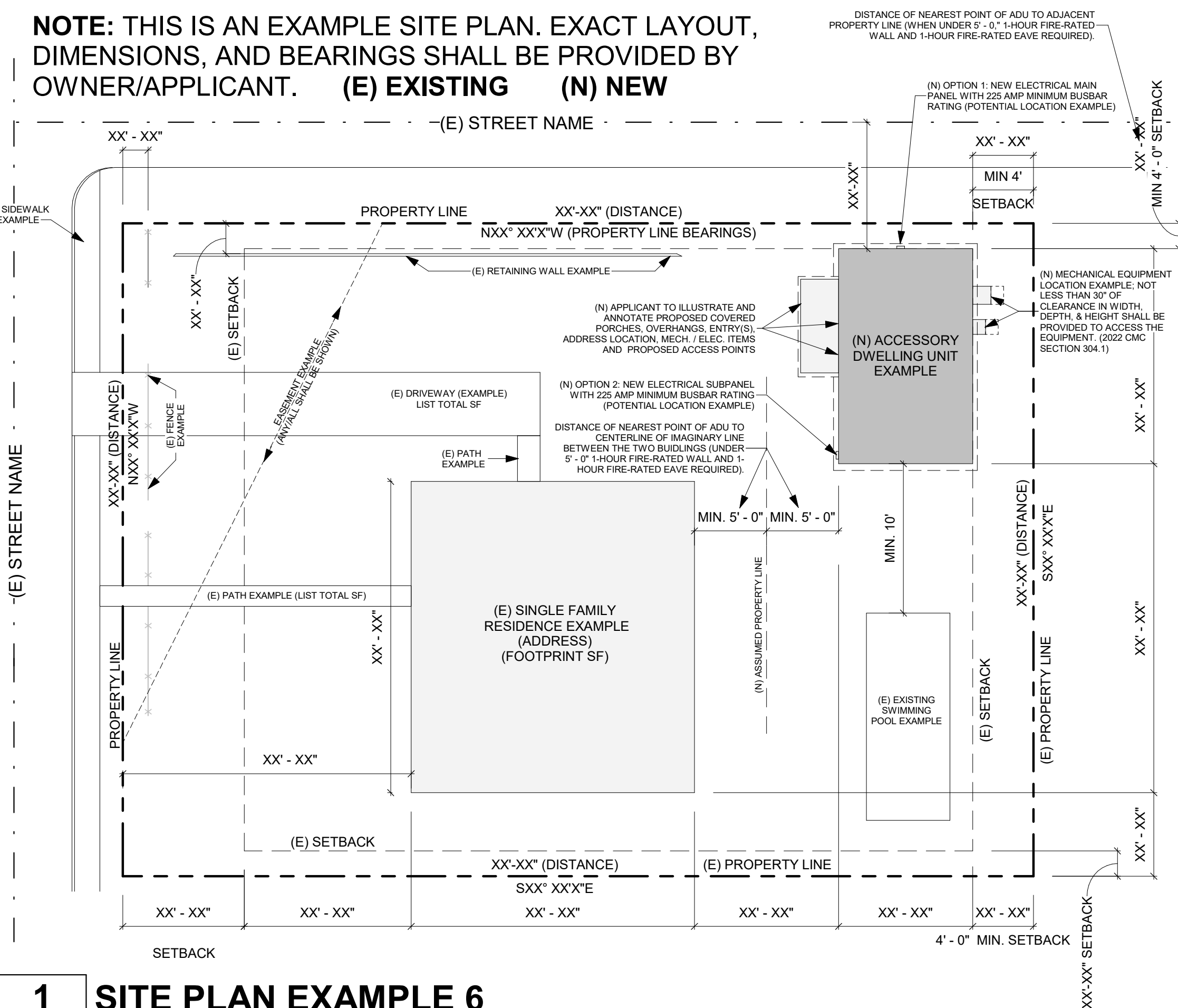
☐ B. TOTAL DEVELOPED LENGTH FOR EACH GAS BRANCH AND ITS CORRESPONDING DEMAND.

☐ C. SHOW MECHANICAL, PLUMBING, AND KITCHEN GAS APPLIANCE LOCATION AND ITS DEMAND FACTORS.

**ADDRESS THE FOLLOWING REQUIREMENTS:**

- A. SHOW THE LOCATION AND IMPACT OF THE ELECTRICAL PANEL SERVING THE ADU. VERIFY COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF THE 2022 CEC.
- B. PROVIDE ELECTRICAL LOAD CALCULATIONS FOR THE ELECTRICAL PANEL SERVING THE ADU IN ACCORDANCE WITH 2022 CEC ARTICLE 220.
- C. SHOW LOCATION OF THE ELECTRICAL PANEL IN THE SITE PLAN.
- D. CLARIFY WHETHER THERE SHALL BE A SEPARATE SERVICE FOR THE PROPOSED ADU OR IF IT WILL BE FED FROM THE EXISTING SINGLE FAMILY DWELLING ON THE PROPERTY.
- E. ELECTRICAL WILL BE FED FROM THE EXISTING SINGLE FAMILY DWELLING. NOTE LOCATION AND IMPACT OF THE PANEL(S) FOR THE EXISTING SINGLE FAMILY DWELLING SHALL BE SHOWN ON THE PLANS AND ELECTRICAL LOAD CALCULATIONS IN ACCORDANCE WITH 2022 CEC, ARTICLE 220 SHALL BE PROVIDED WHICH INCLUDE ALL LOADS FROM THE SINGLE FAMILY DWELLING, ANY UPGRADES TO PANELS AT THE EXISTING SINGLE FAMILY DWELLING WILL REQUIRE A SEPARATE PERMIT.
- F. SHOW HOW THE ESS RATED REQUIREMENTS OF 2022 CALIFORNIA ENERGY CODE, SECTION 150.0(S) SHALL BE ADDRESSED.

**NOTE: THIS IS AN EXAMPLE SITE PLAN. EXACT LAYOUT, DIMENSIONS, AND BEARINGS SHALL BE PROVIDED BY OWNER/APPLICANT. (E) EXISTING (N) NEW**



## 1 SITE PLAN EXAMPLE 6

AS-106	SCALE: 1" = 20'-0"
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THESE PLANS ARE PROVIDED BY THE COUNTY OF SAN LUIS OBISPO AS PART OF THE PRE-APPROVED ADU PROGRAM AND ARE PUBLIC DOMAIN. THERE CANNOT BE A CHARGE TO PROVIDE THESE PLANS. NO ALTERATIONS TO THESE PLANS ARE ALLOWED. ALL CHANGES MUST BE MADE TO THE SEPARATE PERMIT ONCE THE BUILDING PERMIT FOR THE ADU HAS BEEN ISSUED AND FINAL INSPECTION COMPLETED. IF YOU DO NOT HAVE THE CONSTRUCTION KNOWLEDGE AND EXPERIENCE TO CONTRIBUTE THESE PLANS WITHOUT FURTHER DETAILS, IT IS RECOMMENDED YOU HIRE A CONTRACTOR TO ASSIST WITH THE PROJECT. THE CITY WILL NOT PROVIDE FURTHER INFORMATION OR DETAILS AND BUILDING INSPECTORS WILL NOT PROVIDE STEP BY STEP INSTRUCTIONS IN THE FIELD.

**COUNTY OF SAN LUIS OBISPO**  
**ACCESSORY DWELLING UNIT**  
SAN LUIS OBISPO, CA

ARCHITECTURAL SITE PLAN  
(EXAMPLE & INSTRUCTIONS)

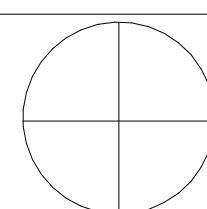
DATE  
11/28/2023

SHEET

AS-106

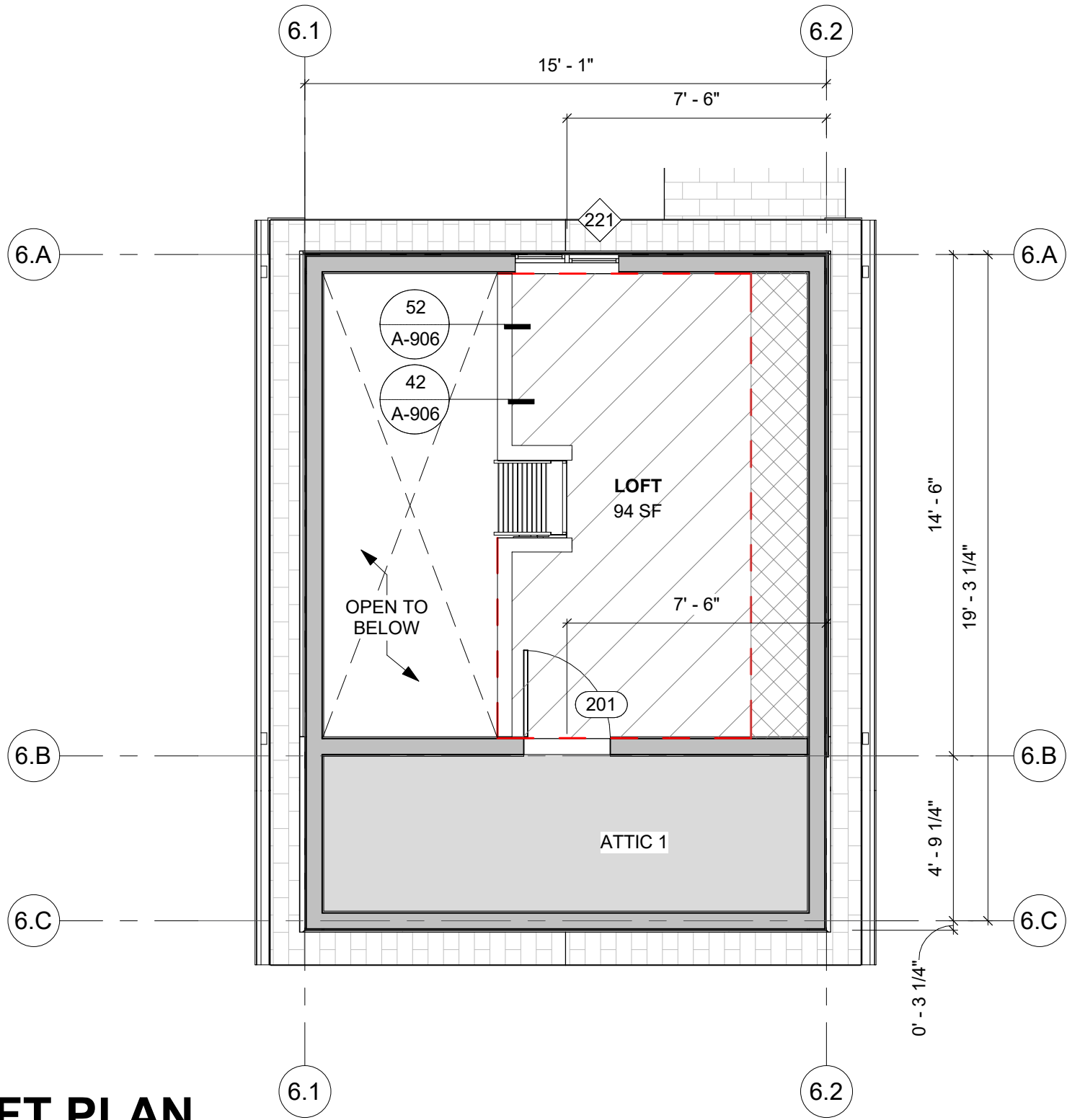
# SITE PLAN

SCALE:



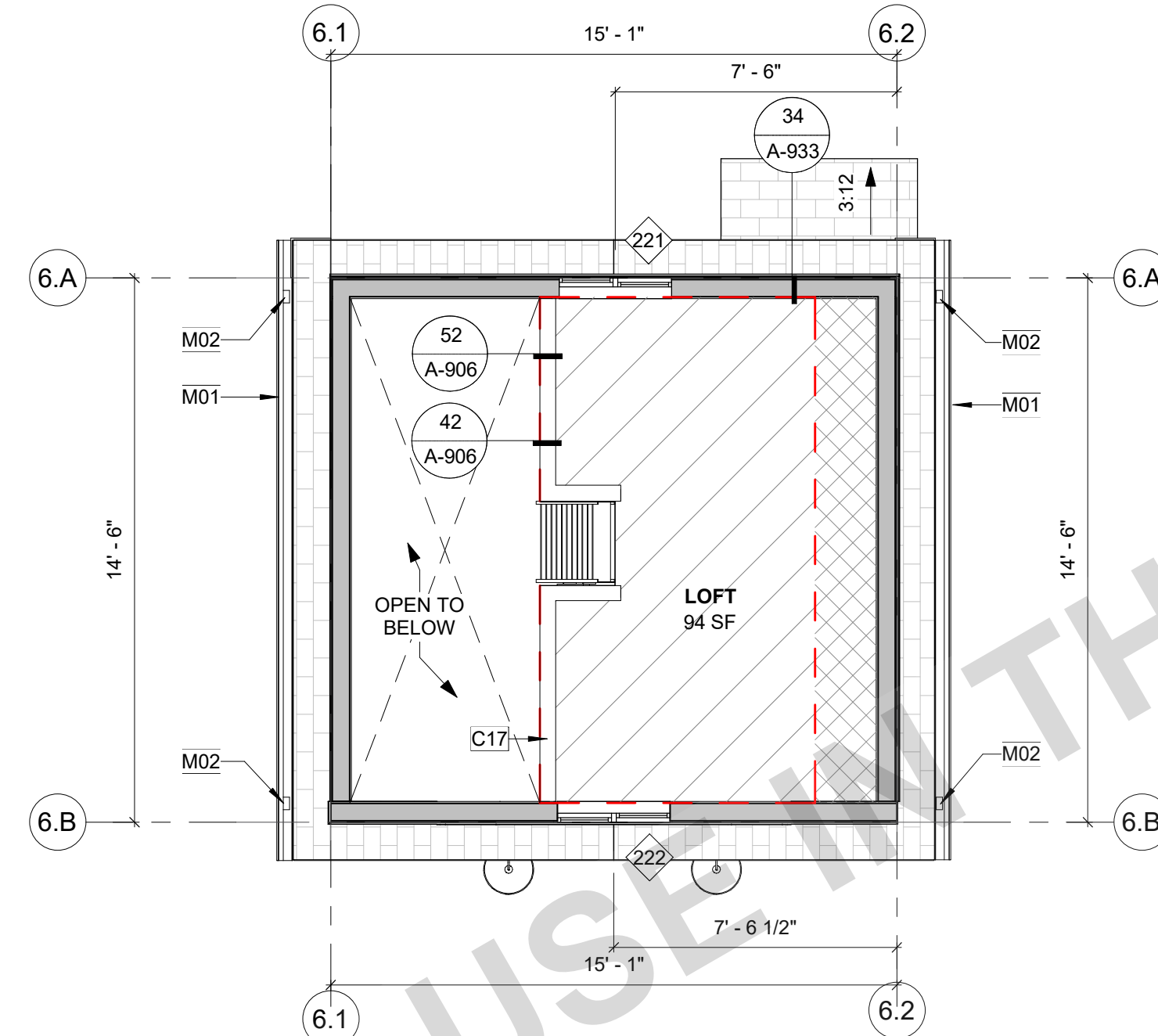
NORTH ARROW





2 LOFT PLAN

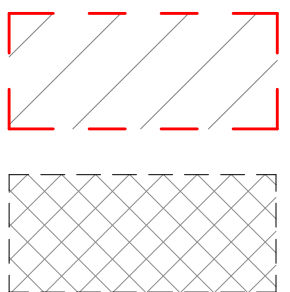
A1-201 | A6-103 SCALE: 1/4" = 1'-0"



4 LOFT PLAN - NO FRONT PORCH OPTION

A1-201 | A6-103 SCALE: 1/4" = 1'-0"

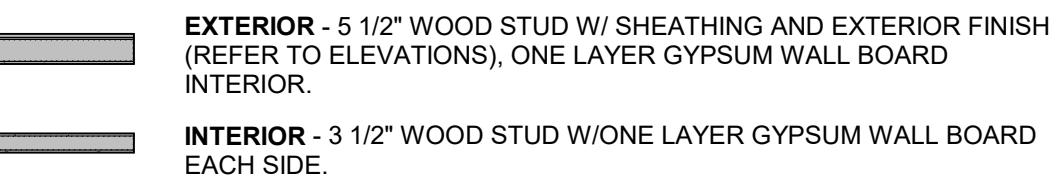
### LOFT LEGEND



LOFT AREA - CEILING 3'-0" OR GREATER

LOFT AREA - CEILING LESS THAN 3'-0"

### WALL LEGEND



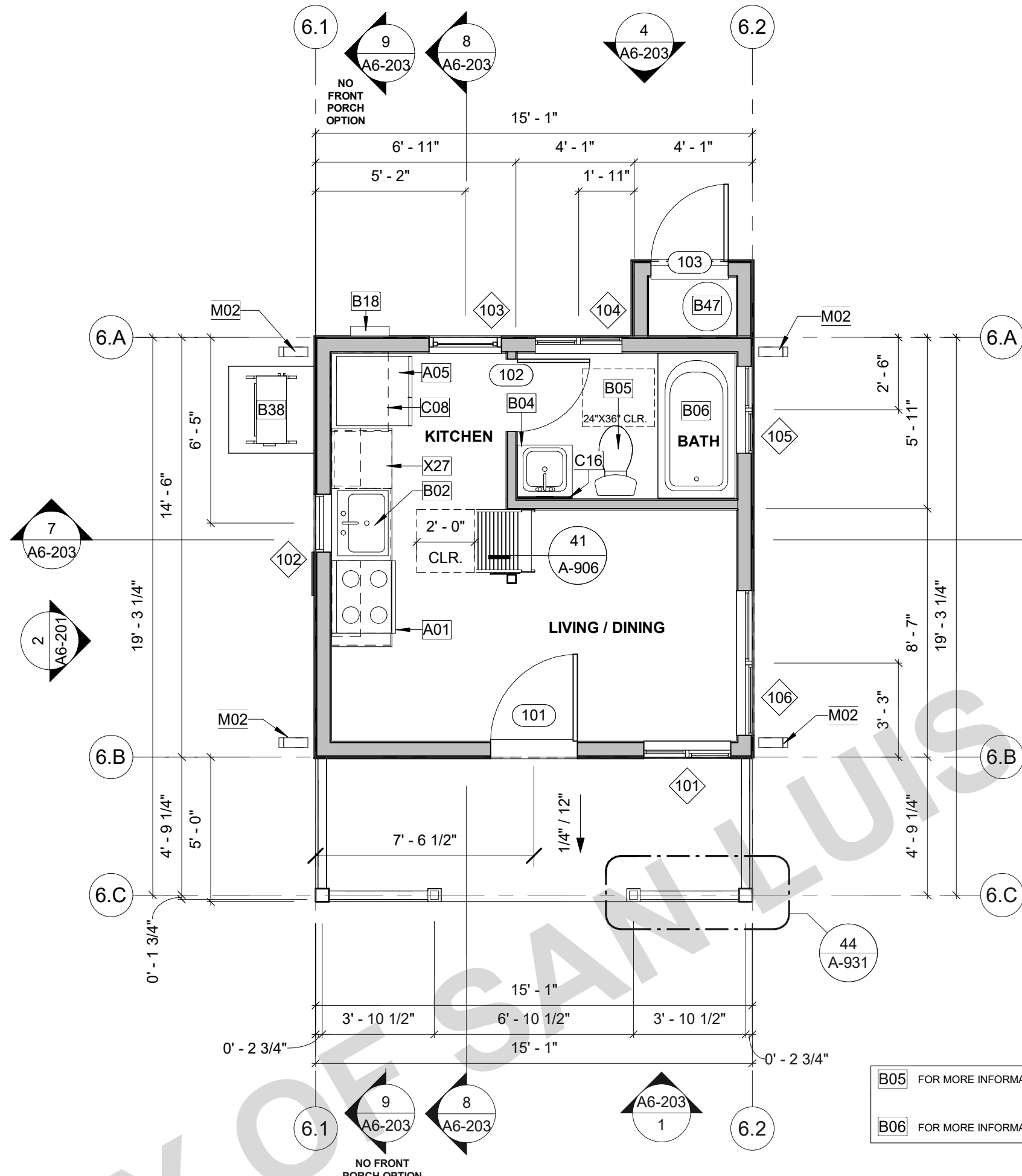
NOTE: SEE MANUFACTURER'S PRODUCT LISTINGS FOR IMPROVED SOUND AND/OR MOISTURE/MOLD/MILDEW-RESISTANT PERFORMANCE. VISIT GYPSUM.ORG FOR MORE INFORMATION.

### WINDOW GENERAL NOTES

- REFER TO GENERAL NOTES ON SHEET G-101 FOR ADDITIONAL REQUIREMENTS.
- REFER TO FLOOR PLANS FOR WINDOW LOCATIONS.
- CONTRACTOR TO VERIFY EXACT ROUGH OPENING SIZES PRIOR TO FABRICATION OF ROUGH OPENINGS.
- INSTALL PER MANUFACTURERS WRITTEN INSTRUCTIONS.
- REFER TO ENERGY COMPLIANCE REPORTS FOR U-FACTOR, SHGC AND ADDITIONAL WINDOW REQUIREMENTS.
- ALL GLAZING IS DOUBLE PANE WITH A MINIMUM OF ONE TEMPERED PANE UNLESS OTHERWISE NOTED.
- EGRESS WINDOWS SHALL HAVE A CLEAR OPENING WITH A MAX. SILL HEIGHT OF 44" AFF. MIN NET CLEAR OPENING FOR EMERGENCY ESCAPE SHALL BE 5.7 S.F. EXCEPTION: MIN 5 S.F. AT GROUND FLOOR. MINIMUM NET CLEAR OPENING DIMENSIONS: HEIGHT: 24", WIDTH: 20".
- GLAZING IN WALLS ADJACENT TO BATHTUB / SHOWER WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60" MEASURED VERTICALLY ABOVE ANY STANDING OR WALKING SURFACE SHALL BE SAFETY GLAZING. [CRC SEC. R308.4.5]

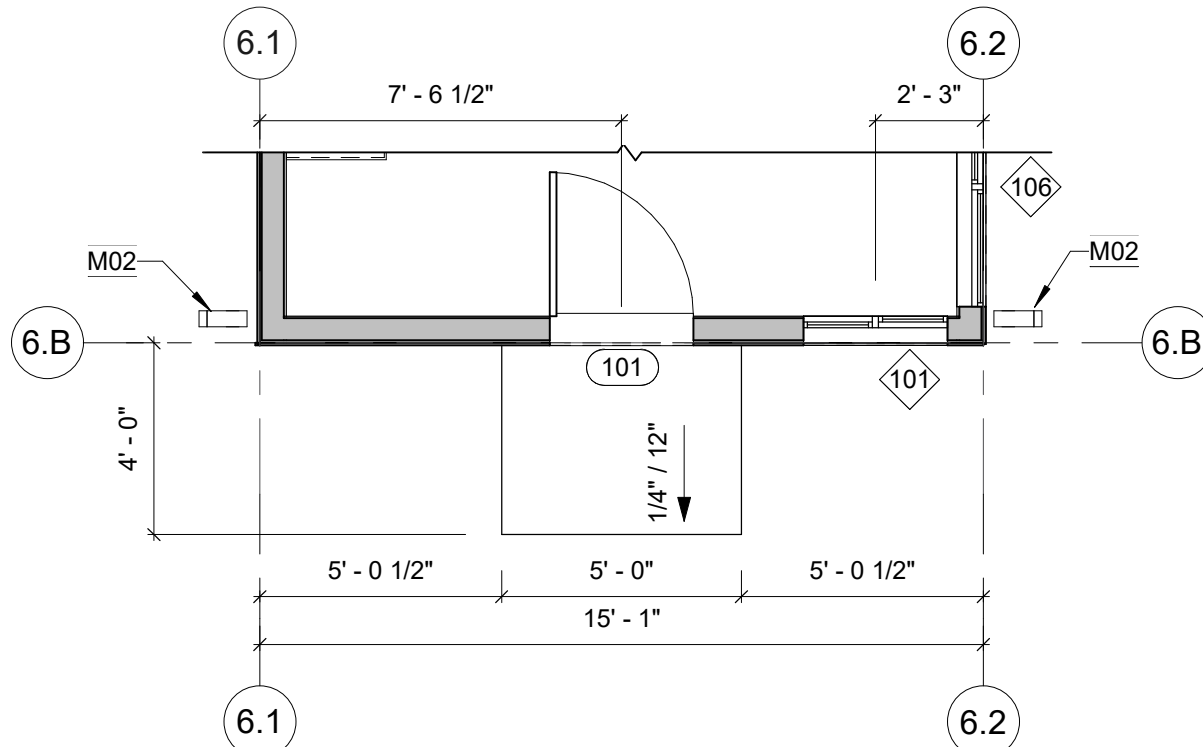
### WINDOW REMARKS

- REQUIRED EGRESS WINDOW. REFER TO GENERAL NOTE #7 FOR ADDITIONAL INFORMATION.
- HAZARDOUS LOCATION. WINDOW INCLUDES BOTH PANES TEMPERED GLAZING.
- MULLED WINDOW ASSEMBLY.
- OPTIONAL WINDOW.
- OBSCURE OPTIONAL. VERIFY WITH OWNER/APPLICANT.



1 GROUND FLOOR PLAN

A1-201 | A6-103 SCALE: 1/4" = 1'-0"



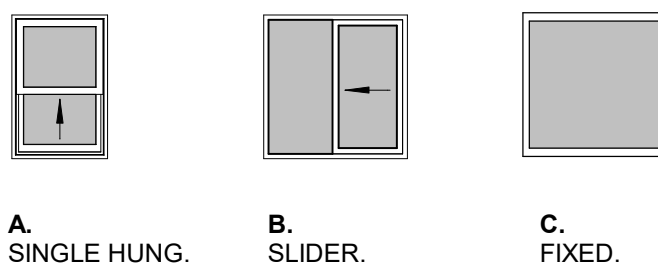
3 GROUND FLOOR PLAN - NO FRONT PORCH OPTION

A1-201 | A6-103 SCALE: 1/4" = 1'-0"

### WINDOW SCHEDULE

NO.	TYPE	SIZE		HEAD HEIGHT	REMARKS
		WIDTH	HEIGHT		
101	B	3' - 0"	3' - 0"	6' - 8"	
102	A	2' - 0"	3' - 0"	6' - 8"	
103	A	2' - 6"	4' - 0"	6' - 8"	2
104	B	3' - 0"	2' - 0"	6' - 8"	2.5
105	B	3' - 0"	2' - 0"	6' - 8"	2.5
106	B	5' - 0"	5' - 0"	6' - 8"	
221	B	3' - 0"	3' - 0"	5' - 0"	1
222	B	3' - 0"	3' - 0"	5' - 0"	

### WINDOW LEGEND



### DOOR GENERAL NOTES

- REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS
- REFER TO PLANS FOR LOCATION OF DOORS.
- VERIFY ROUGH OPENING SIZE WITH DOOR MANUFACTURER SPECIFICATIONS PRIOR TO CONSTRUCTION.
- CONTRACTOR TO VERIFY ACTUAL DOOR SIZE TO FIT FINISH OPENING PRIOR TO FABRICATION OF DOOR AND FINISH OPENING.
- INSTALL PER MANUFACTURERS WRITTEN INSTRUCTIONS.
- REFER TO DOOR TYPES LEGEND FOR GLAZING.
- REFER TO T24 REPORT FOR GLAZING ENERGY REQUIREMENTS.
- GLAZING IN DOORS SHALL BE TEMPERED PER SECTION R308.4.1. PANES INDICATED IN DOOR LEGEND WITH (T).

### DOOR REMARKS

- EXTERIOR DOOR.
- GLAZING PER DOOR TYPES. REFER TO GENERAL DOOR NOTE #8
- PROVIDE 100 SQ INCHES OF VENTING IN DOOR OR BY OTHER APPROVED MEANS.
- OPTIONAL DOOR.

### DOOR SCHEDULE

NO.	TYPE	DOOR		REMARKS
		WIDTH	HEIGHT	
101	A	3' - 0"	6' - 8"	1, 2
102	C	2' - 6"	6' - 8"	
103	B	2' - 8"	6' - 8"	1
201	C	2' - 6"	3' - 6"	4

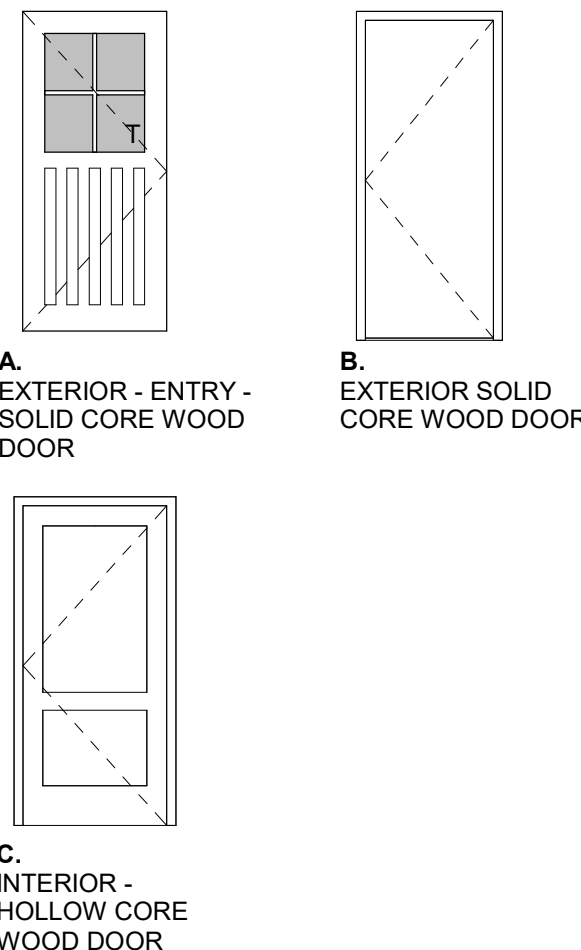
### FLOOR PLAN GENERAL NOTES

- REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS.
- REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION.
- REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION IF PROVIDED.
- REFER TO MECHANICAL PLANS, DRAWINGS OR REPORTS FOR FURTHER INFORMATION.
- ALL FURNITURE AND EQUIPMENT IS BY OWNER AND IS SHOWN FOR COORDINATION PURPOSES ONLY.
- DIMENSIONS ARE TO FACE OF FRAMING UNLESS SPECIFICALLY NOTED OTHERWISE.
- PROVIDE ADEQUATE BLOCKING IN WALLS FOR CABINETS AND OTHER WALL MOUNTED ACCESSORIES INCLUDING BUT NOT LIMITED TO HANDRAILS, SHELVING AND BATHROOM FIXTURES.
- DOOR AND WINDOW DIMENSIONS ARE CENTERED AT OPENINGS.
- WHERE DOOR IS LOCATED WITHOUT DIMENSION AT THE CORNER OF A ROOM IT SHALL BE 4" FROM FACE OF FRAMING OF ADJACENT WALL TO ROUGH DOOR OPENING.
- WHERE RECESSED FIXTURES OCCUR IN WALLS OR HORIZONTAL ASSEMBLIES, THE FIRE RATING OF THOSE ASSEMBLIES SHALL BE MAINTAINED.
- AT ALL PENETRATIONS AND INTERSECTIONS OF FIRE-RATED PARTITIONS, PROVIDE FIRE SEALANT AND/OR FIRE STOPPING TO MAINTAIN CONTINUITY OF PARTITION RATING.
- PER CRC R311.3 FLOORS OR LANDINGS AT EXTERIOR DOORS SHALL BE AT LEAST AS WIDE AS DOOR SERVED AND SHALL PROVIDE A LENGTH IN THE DIRECTION OF TRAVEL EQUAL TO 36 INCHES MINIMUM. SLOPE OF EXTERIOR LANDINGS SHALL NOT EXCEED 1/4" PER FOOT (2% SLOPE).
- PER CRC 327.1.1 REINFORCEMENT FOR GRAB BARS SHALL BE PROVIDED IN AT LEAST ONE BATHROOM. 1. REINFORCEMENT SHALL BE SOLID LUMBER OR OTHER CONSTRUCTION MATERIALS APPROVED BY THE ENFORCING AGENCY. 2. REINFORCEMENT SHALL NOT BE LESS THAN 2X8 INCH NOMINAL LUMBER OR OTHER MATERIAL PROVIDING EQ. HT. AND CAPACITY. REINFORCEMENT ABOVE THE FINISHED FLOOR FLUSH WITH THE WALL FRAMING. 3. WATER CLOSET REINFORCEMENT SHALL BE INSTALLED ON BOTH SIDE WALLS OF THE FIXTURE, OR ONE SIDE WALL AND THE BACK WALL. 4. SHOWER REINFORCEMENT SHALL BE CONTINUOUS WHERE WALL FRAMING IS PROVIDED. 5. BATHTUB AND COMBINATION BATHTUB/SHOWER REINFORCEMENT SHALL BE CONTINUOUS ON EACH END OF THE BATHTUB AND THE BACK WALL. ADDITIONALLY, BACK WALL REINFORCEMENT FOR A LOWER GRAB BAR SHALL BE PROVIDED WITH THE BOTTOM EDGE LOCATED NO MORE THAN 6 INCHES ABOVE THE BATHTUB RIM.

### KEYNOTES

- A01 30" WIDE FREE STANDING ELECTRIC RANGE OVEN. VENT TO EXTERIOR. STAINLESS STEEL.
- A05 REFRIGERATOR LOCATION. PROVIDE 42" SPACE WITH ROUGH PLUMBING FOR ICE MAKER (RECESS IN WALL).
- B02 20" SINGLE COMPARTMENT UNDER-MOUNT KITCHEN SINK W/ GARBAGE DISPOSAL. REFER TO WATER EFFICIENCY REQUIREMENTS ON CALGREEN CODE NOTES SHEET.
- B04 LAVATORY SINK. REFER TO WATER EFFICIENCY REQUIREMENTS ON CALGREEN CODE NOTES SHEETS.
- B05 WATER CLOSET. REFER TO WATER EFFICIENCY REQUIREMENTS ON CALGREEN CODE NOTES SHEETS. REQ. AGING-IN-PLACE BLOCKING; SEE DETAIL SHEETS FOR MORE INFO.
- B06 32" x 60" x 72" TUB AND SHOWER COMBINATION. MODEL BY BUILDER. PROVIDE SHOWER ROD. REQ. AGING-IN-PLACE BLOCKING; SEE DETAIL SHEETS FOR MORE INFO.
- B18 ELECTRIC PANEL. 100AMP 240V.
- B38 MULTI-ZONE HEAT PUMP CONDENSER UNIT. REFER TO PLANS FOR LOCATION OF INDOOR FAN FAN COIL UNITS. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. PROVIDE CONCRETE PAD MIN. 6" LARGER THAN UNIT IN EACH DIRECTION, 3" MIN. ABOVE GRADE.
- B47 40 GALLON HEAT PUMP WATER HEATER. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION.
- C08 12" DEEP UPPER CABINET
- C16 MIRROR. THE LENGTH OF THE VANITY OR PEDESTAL X 80" AFS. UNO. VERIFY WITH THE ELECTRICAL PLAN FOR LOCATION OF OUTLETS WHICH REQUIRE A CUT-OUT. PROVIDE 2X6 BACKING AT BATHROOM WALL ATTACHEMENTS
- C17 INTERIOR LOFT GUARD (PER CRC AQ104.2.5). ONE HALF OF THE CLEAR HEIGHT TO THE CEILING OR 36" MIN. UNO. SEE LOFT GUARD DETAIL 42 ON SHEET A-908 FOR MORE INFORMATION.
- M01 GUTTER. CONNECT TO DOWNSPOUT. PROVIDE MEANS TO PREVENT ACCUMULATION OF LEAVES AND DEBRIS IN GUTTER PER CRC R337.5.4
- M02 DOWNSPOUT. CONNECT TO STORM DRAIN SYSTEM OR APPROVED DRAINAGE SYSTEM BY COUNTY.
- X27 OPTIONAL DISHWASHER

### DOOR LEGEND



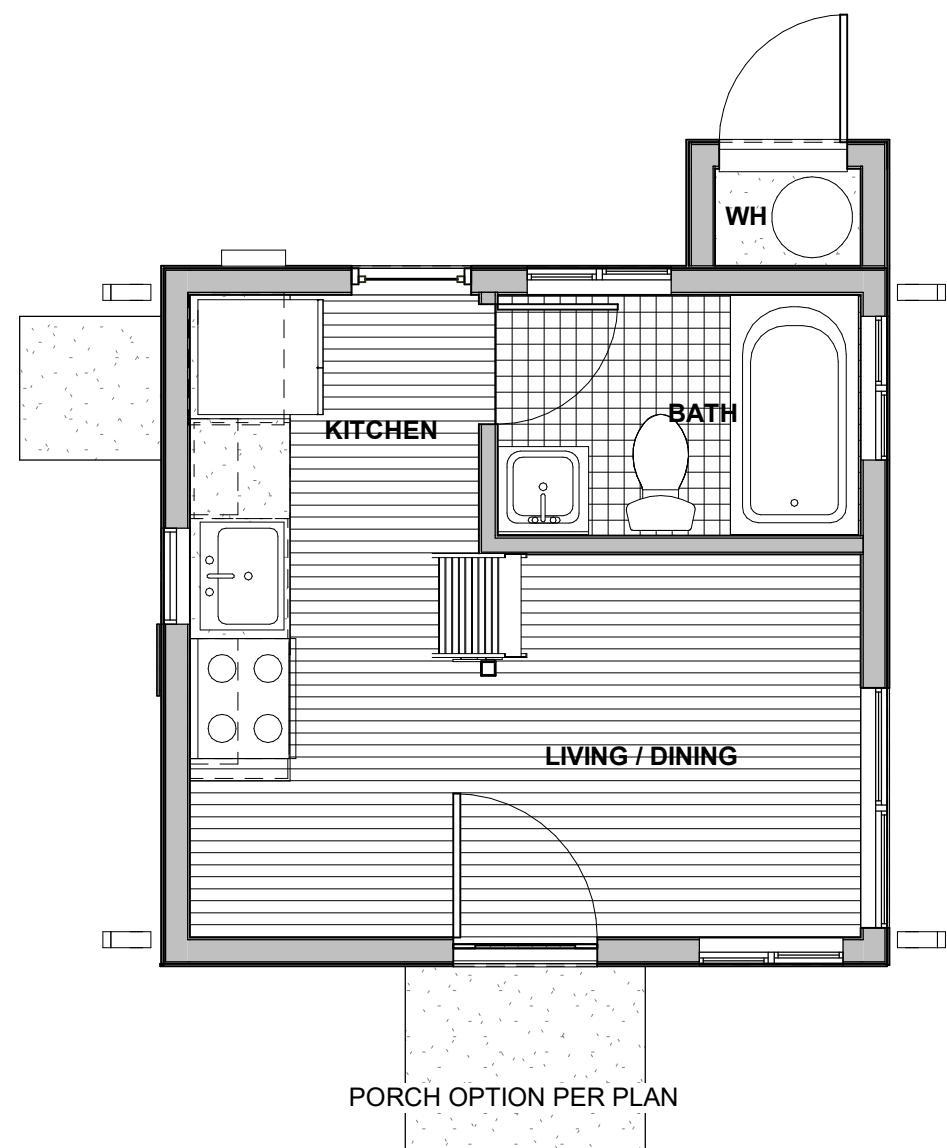
COUNTY OF SAN LUIS OBISPO  
ACCESSORY DWELLING UNIT  
SAN LUIS OBISPO, CA

FLOOR PLAN

DATE  
11/28/2023  
SHEET

A6-103





## 2 GROUND FLOOR FINISH PLAN

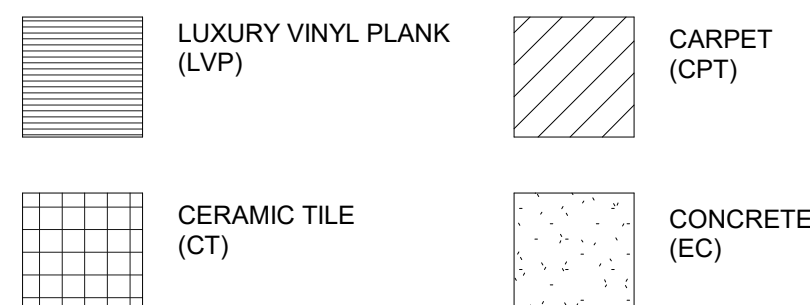
A1-201 | A6-111 | SCALE: 1/4" = 1'-0"

### FINISH PLAN GENERAL NOTES

- REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS.
- REFER TO ELECTRICAL PLANS FOR FURTHER INFORMATION.
- REFER TO PLUMBING PLANS FOR FURTHER INFORMATION.
- REFER TO DETAILS FOR FLOOR/CEILING ASSEMBLIES AND INTERIOR FINISH DETAILS.
- ALL HARD SURFACE FLOORING SHALL BE SLIP RESISTANT AND MEET THE **ANSI A326.3** STANDARD FOR MEASURING THE DYNAMIC COEFFICIENT OF FRICTION (DCOF).
- ALL FLOORING MATERIALS SHALL COMPLY WITH **CBC SEC. 804.1**.
- ALL WALL AND CEILING FINISHES SHALL COMPLY WITH **CBC TABLE 803.13** FOR MAXIMUM FLAME SPREAD AND SMOKE DENSITY.

FINISH SCHEDULE PLAN 6				
NAME	FLOOR	WALL	CEILING	NOTES
KITCHEN/DINING	LVP	GWB	GWB	WR GWB BEHIND KITCHEN COUNTER
BATH	CT	WR GWB	WR GWB	AT CERAMIC TILE IN TUB/SHOWER AREAS, PROVIDE BACKER BOARD PER CRC TABLE R702.4.2

### FINISH LEGEND



### VENTILATION SUMMARIES

#### 1) LOCAL EXHAUST VENTILATION

BATHROOM	OPTION A	OPTION B
BATHROOM FAN FLOW (cfm) .....	50 CFM	50
DUCT TYPE .....	FLEX DUCT	SMOOTH DUCT
DUCT SIZE (in) .....	4"	4
MAX. ALLOWABLE DUCT LENGTH (ft) .....	70'	105
THIS EXHAUST FAN IS REQUIRED TO BE RATED FOR SOUND AT A MAX. OF 3 SONES.		

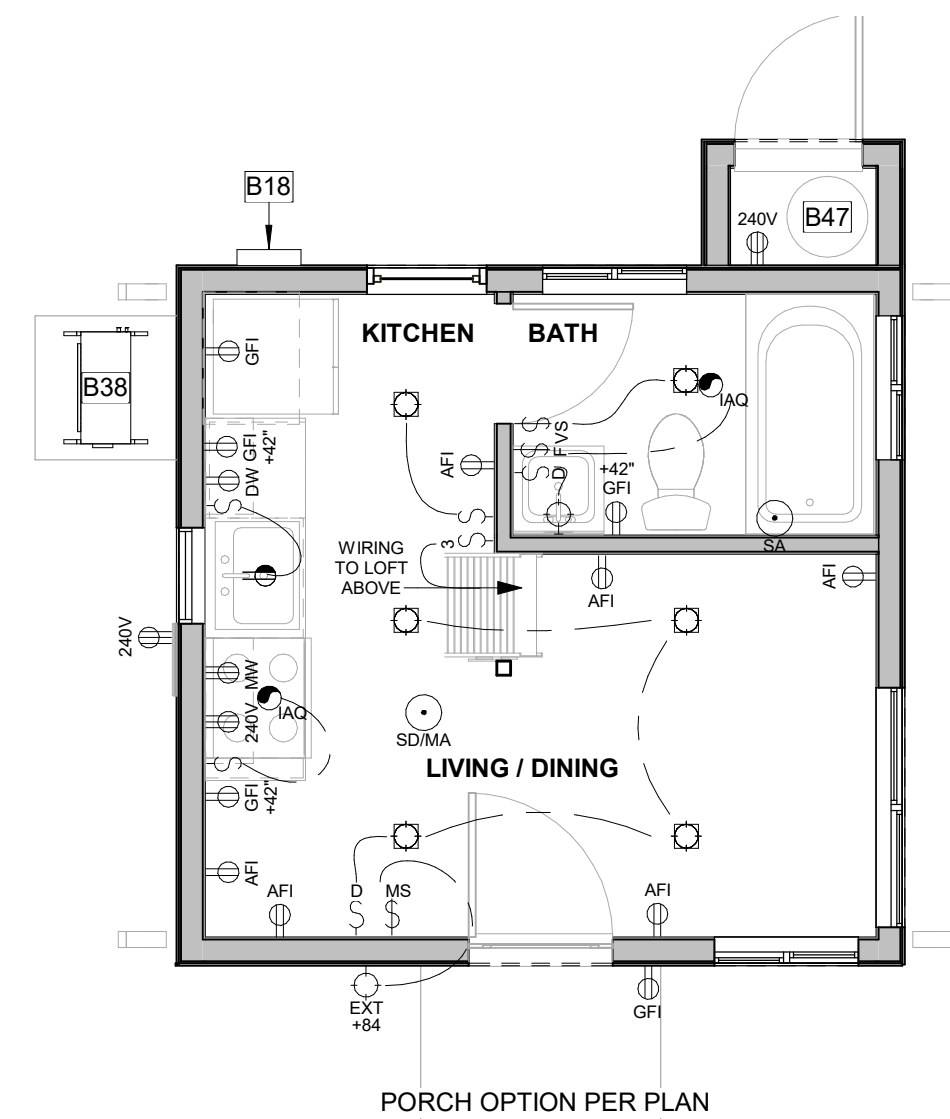
KITCHEN	OPTION A	OPTION B
KITCHEN FAN FLOW (cfm) .....	10 CFM	50
DUCT TYPE .....	FLEX DUCT	SMOOTH DUCT
DUCT SIZE (in) .....	35"	5
MAX. ALLOWABLE DUCT LENGTH (ft) .....	0'	85
THIS EXHAUST FAN IS REQUIRED TO BE RATED FOR SOUND AT A MAX. OF 3 SONES.		

#### 2) WHOLE BUILDING VENTILATION

OPTION A	OPTION B
PER ASHRAE STANDARD 62.2, CEC EQUATION 150.0-B	
BUILDING FAN FLOW (cfm) .....	50 CFM
DUCT TYPE .....	FLEX DUCT
DUCT SIZE (in) .....	4
MAX. ALLOWABLE DUCT LENGTH (ft) .....	70'
THIS EXHAUST FAN IS REQUIRED TO BE RATED FOR SOUND AT A MAX. OF 1 SONE.	
THIS EXHAUST FAN IS REQUIRED TO OPERATE CONTINUOUSLY TO ENSURE CONTINUOUSLY TO ENSURE INDOOR AIR QUALITY.	

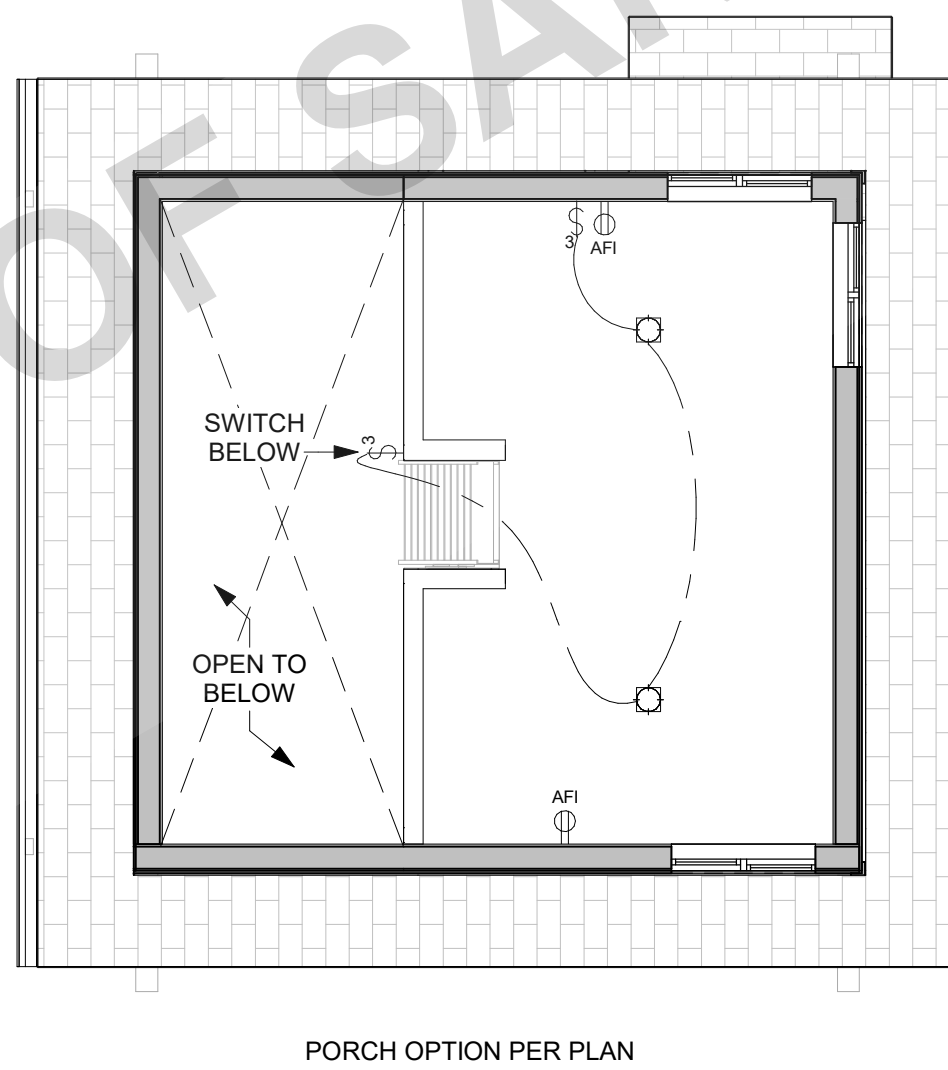
**TOTAL (MINIMUM) REQUIRED VENTILATION RATE**  
PER ASHRAE STANDARD 62.2, CEC EQUATION 150.0-B  
QCFM = .03(FLOOR AREA) + 7.5 (# OF BEDROOMS + 1)

**0 BED - MINIMUM CUBIC FEET PER MINUTE (CFM)**  
Qcfm = .03(X) + 7.5(0 + 1) = XX.XX **.03(331 sf) + 7.5 (0) = 9.93 CFM < 50 CFM**



## 1 GROUND FLOOR ELECTRICAL PLAN

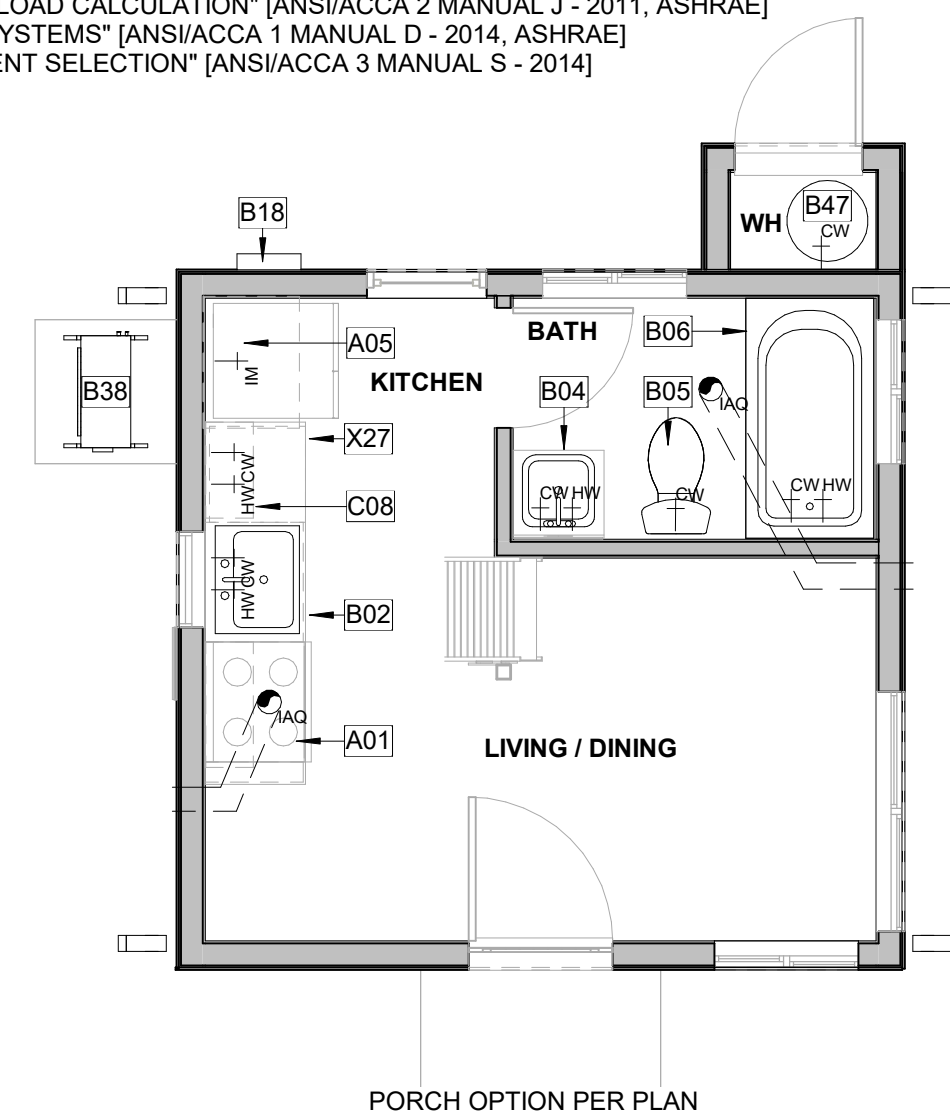
A1-201 | A6-111 | SCALE: 1/4" = 1'-0"



## 3 LOFT ELECTRICAL PLAN

A1-201 | A6-111 | SCALE: 1/4" = 1'-0"

**NOTE:** SIZE, DESIGN, AND SELECTION OF HVAC EQUIPMENT SHALL BE PROVIDED FOR PROJECT BY ONE OF THE FOLLOWING:  
A. HEAT LOSS AND GAIN PER "RESIDENTIAL LOAD CALCULATION" [ANSI/ACCA 2 MANUAL J - 2011, ASHRAE]  
B. DUCT SIZING PER "RESIDENTIAL DUCT SYSTEMS" [ANSI/ACCA 1 MANUAL D - 2014, ASHRAE]  
C. SELECTION PER "RESIDENTIAL EQUIPMENT SELECTION" [ANSI/ACCA 3 MANUAL S - 2014]



## 4 MECHANICAL PLAN

A1-201 | A6-111 | SCALE: 1/4" = 1'-0"

## GENERAL MEP NOTES

- REFER TO ELECTRICAL NOTES ON SHEET G-101.
- REFER TO MECHANICAL NOTES ON SHEET G-101.
- REFER TO PLUMBING NOTES ON SHEET G-101.
- REFER TO TITLE 24 COMPLIANCE NOTES ON SHEET G-101.
- EXTERNALLY MOUNTED HEATING/COOLING UNITS SHALL BE SCREENED IF THEY ARE VISIBLE FROM A PUBLIC STREET.
- ALL SMOKE ALARMS TO BE HARD-WIRED WITH A BATTERY BACK-UP, AND ALL SMOKE ALARMS MUST BE INTERCONNECTED AND SOUND AN ALARM CLEARLY AUDIBLE IN ALL BEDROOMS.
- ALL CARBON MONOXIDE ALARMS TO BE HARD-WIRED WITH A BATTERY BACK-UP, AND ALL CARBON MONOXIDE ALARMS MUST BE INTERCONNECTED AND SOUND AN ALARM CLEARLY AUDIBLE IN ALL BEDROOMS.

## KEYNOTES

- A01 30" WIDE FREE STANDING ELECTRIC RANGE OVEN. VENT TO EXTERIOR, STAINLESS STEEL.
- A05 REFRIGERATOR LOCATION. PROVIDE 42" SPACE WITH ROUGH PLUMBING FOR ICE MAKER (RECESS IN WALL).
- B02 20" SINGLE COMPARTMENT UNDER-MOUNT KITCHEN SINK W/ GARBAGE DISPOSAL. REFER TO WATER EFFICIENCY REQUIREMENTS ON CALGREEN CODE NOTES SHEET.
- B04 LAVATORY SINK. REFER TO WATER EFFICIENCY REQUIREMENTS ON CALGREEN CODE NOTES SHEETS.
- B05 WATER CLOSET. REFER TO WATER EFFICIENCY REQUIREMENTS ON CALGREEN CODE NOTES SHEETS. REQ. AGING-IN-PLACE BLOCKING; SEE DETAIL SHEETS FOR MORE INFO.
- B06 32" x 60" x 72" TUB AND SHOWER COMBINATION. MODEL BY BUILDER. PROVIDE SHOWER ROD. REQ. AGING-IN-PLACE BLOCKING; SEE DETAIL SHEETS FOR MORE INFO.
- B18 ELECTRIC PANEL, 100AMP 240V.
- B38 MULTI-ZONE HEAT PUMP CONDENSER UNIT. REFER TO PLANS FOR LOCATION OF INDOOR FAN COIL UNITS. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. PROVIDE CONCRETE PAD MIN. 6" LARGER THAN UNIT IN EACH DIRECTION, 3" MIN. ABOVE GRADE.
- B47 40 GALLON HEAT PUMP WATER HEATER. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION.
- C08 12" DEEP UPPER CABINET
- X27 OPTIONAL DISHWASHER

## GENERAL MEP NOTES

- REFER TO ELECTRICAL NOTES ON SHEET G-101.
- REFER TO MECHANICAL NOTES ON SHEET G-101.
- REFER TO PLUMBING NOTES ON SHEET G-101.
- REFER TO TITLE 24 COMPLIANCE NOTES ON SHEET G-101.
- EXTERNALLY MOUNTED HEATING/COOLING UNITS SHALL BE SCREENED IF THEY ARE VISIBLE FROM A PUBLIC STREET.
- ALL SMOKE ALARMS TO BE HARD-WIRED WITH A BATTERY BACK-UP, AND ALL SMOKE ALARMS MUST BE INTERCONNECTED AND SOUND AN ALARM CLEARLY AUDIBLE IN ALL BEDROOMS.
- ALL CARBON MONOXIDE ALARMS TO BE HARD-WIRED WITH A BATTERY BACK-UP, AND ALL CARBON MONOXIDE ALARMS MUST BE INTERCONNECTED AND SOUND AN ALARM CLEARLY AUDIBLE IN ALL BEDROOMS.

## LEGEND

**NOTE:** ALL OUTDOOR OUTLETS SHALL HAVE GFCI PROTECTION AND WEATHERPROOF COVERS.

	ELECTRICAL SWITCH		SMOKE DETECTOR/ALARM		DUPLEX OUTLET
	ELECTRICAL SWITCH-THREE WAY		COMBINATION SMOKE/CARBON MONOXIDE ALARM		DUPLEX OUTLET 240 VOLTS
	ELECTRICAL SWITCH-VACANCY SENSOR		COMPUTER DATA LOCATION		DUPLEX OUTLET GROUND FAULT INTERRUPTER
	ELECTRICAL SWITCH-MOTION SENSOR		TELEPHONE LOCATION		DUPLEX OUTLET WATERPROOF GROUND FAULT INTERRUPTER
	ELECTRICAL SWITCH-DIMMER		CABLE TELEVISION LOCATION		DUPLEX OUTLET AFCI-HALF HOT
	ELECTRICAL SWITCH-FAN		ELECTRICAL JUNCTION BOX		DUPLEX OUTLET DISH WASHER
	ASTRONOMICAL TIME SWITCH		EXHAUST FAN		DUPLEX OUTLET RANGE HOOD
	INDOOR AIR QUALITY FAN		PENDANT LIGHT		COLD WATER STUB OUT
	WALL MOUNTED HIGH-EFFICACY LIGHT		CEILING FAN OPTIONAL (PRE WIRE FOR CEILING FAN ONLY)		HOT WATER STUB OUT
	EXTERIOR WALL MOUNTED HIGH-EFFICACY LIGHT		WATER HOSE BIBB		WATER HOSE BIBB WITH SHUT OFF VALVE
	RECESSED HIGH-EFFICACY DOWNLIGHT		ICE MACHINE STUB OUT		UNDER CABINET HIGH-EFFICACY LIGHT
	RECESSED HIGH-EFFICACY DOWNLIGHT VAPOR PROOF		22"x30" MIN. CEILING ACCESS PANEL		AIR HANDLER UNIT, PROVIDE DEDICATED OUTLET
	ELECTRICAL WIRING				



THESE PLANS ARE PROVIDED BY THE COUNTY OF SAN LUIS OBISPO AS PART OF THE PRE-APPROVED ADU PROGRAM AND ARE PUBLIC DOMAIN. THERE CANNOT BE A CHARGE TO PROVIDE THESE PLANS. NO ALTERATIONS TO THESE PLANS ARE ALLOWED. ALL ALTERATIONS MUST BE DONE UNDER A SEPARATE PERMIT ONCE THE BUILDING PERMIT FOR THE ADU HAS BEEN ISSUED AND FINAL INSPECTION COMPLETED. IF YOU DO NOT HAVE THE CONSTRUCTION KNOWLEDGE AND EXPERIENCE TO CONTRUCT THESE PLANS WITHOUT FURTHER DETAILS, IT IS RECOMMENDED YOU HIRE A CONTRACTOR TO DO THE CONSTRUCTION. THE CITY WILL NOT PROVIDE FURTHER INFORMATION OR DETAILS AND BUILDING INSPECTORS WILL NOT PROVIDE STEP BY STEP INSTRUCTIONS IN THE FIELD.

COUNTY OF SAN LUIS OBISPO  
ACCESSORY DWELLING UNIT  
SAN LUIS OBISPO, CA  
FINISH, MECHANICAL, &  
ELECTRICAL PLAN

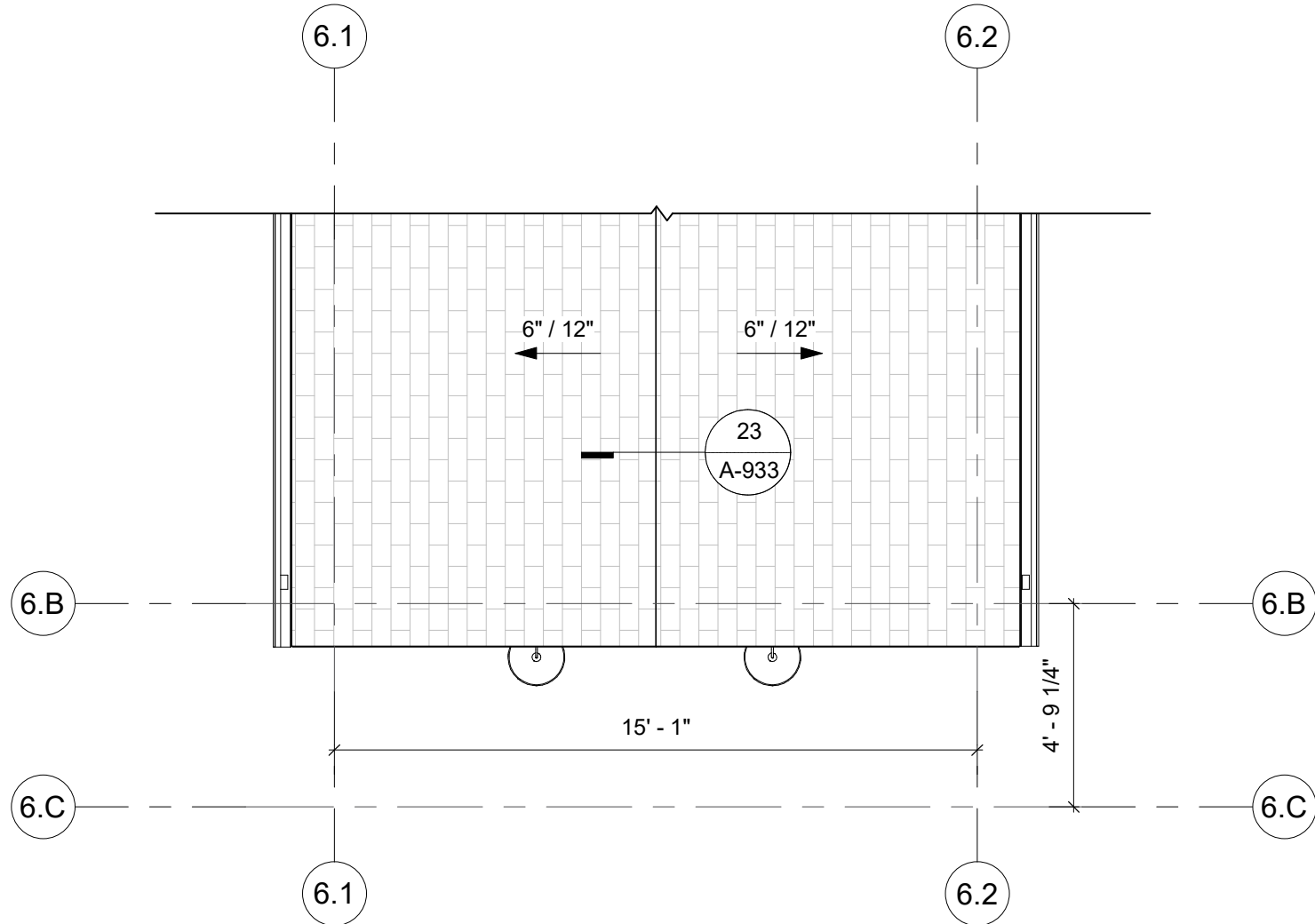
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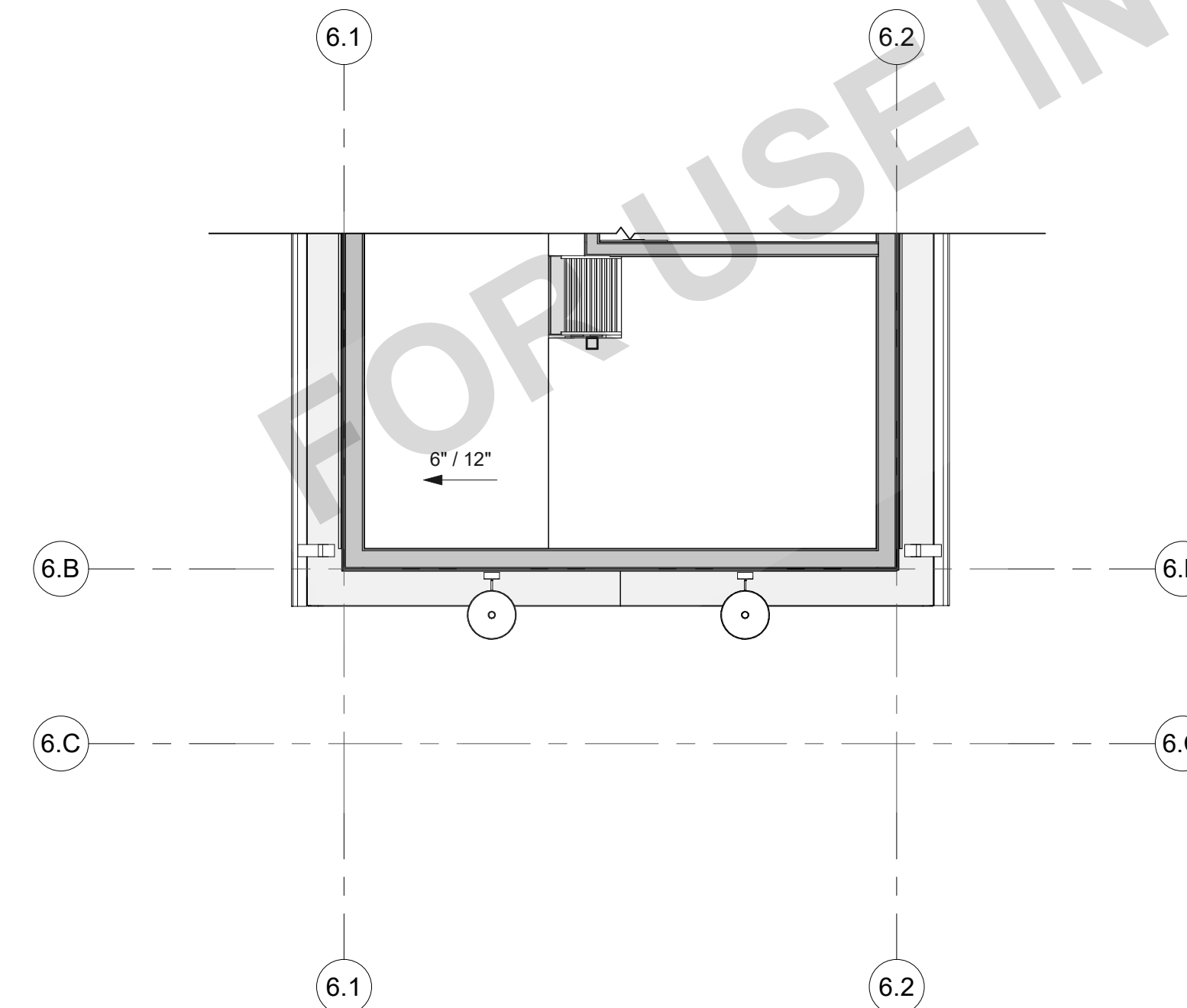
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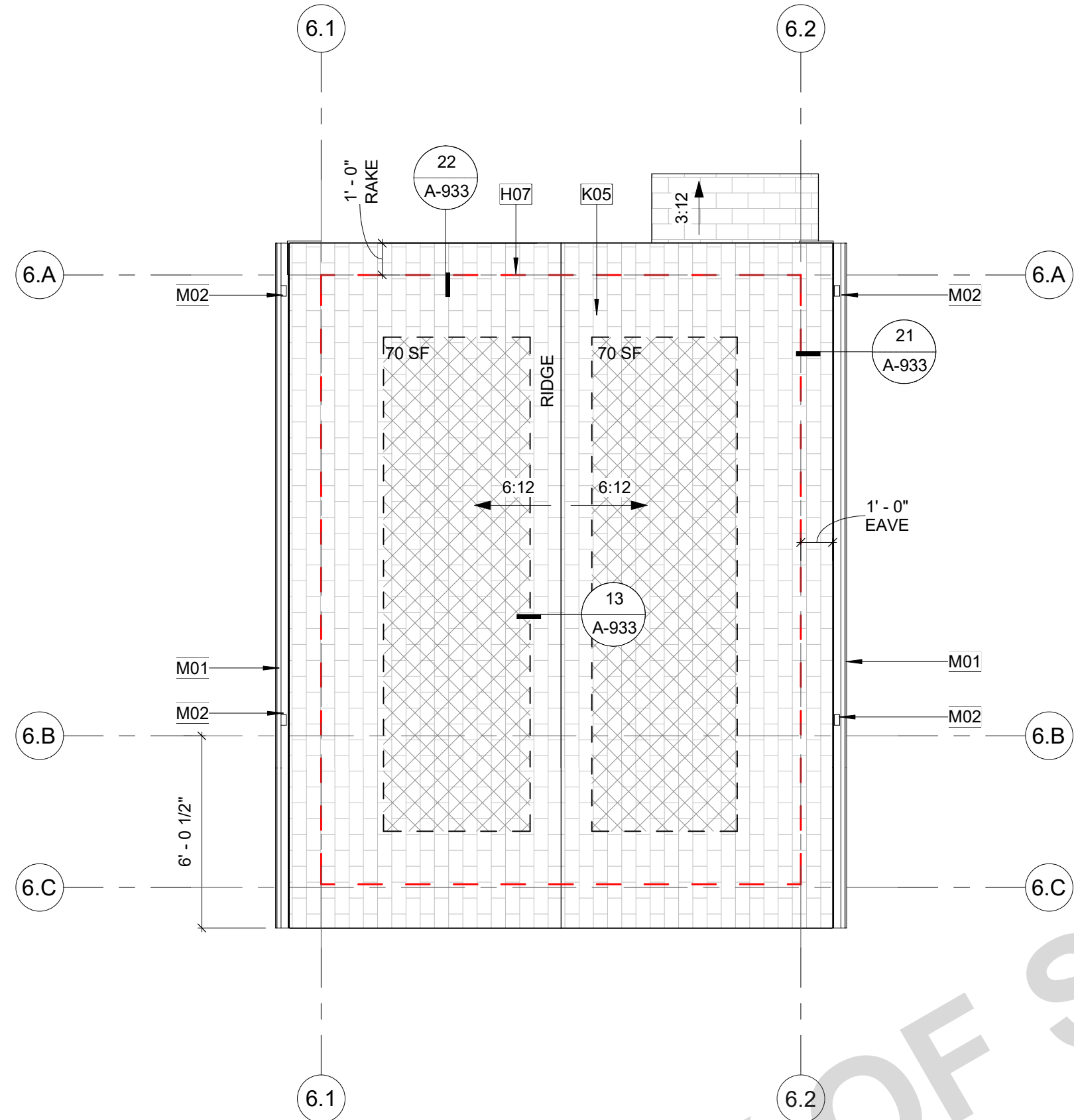
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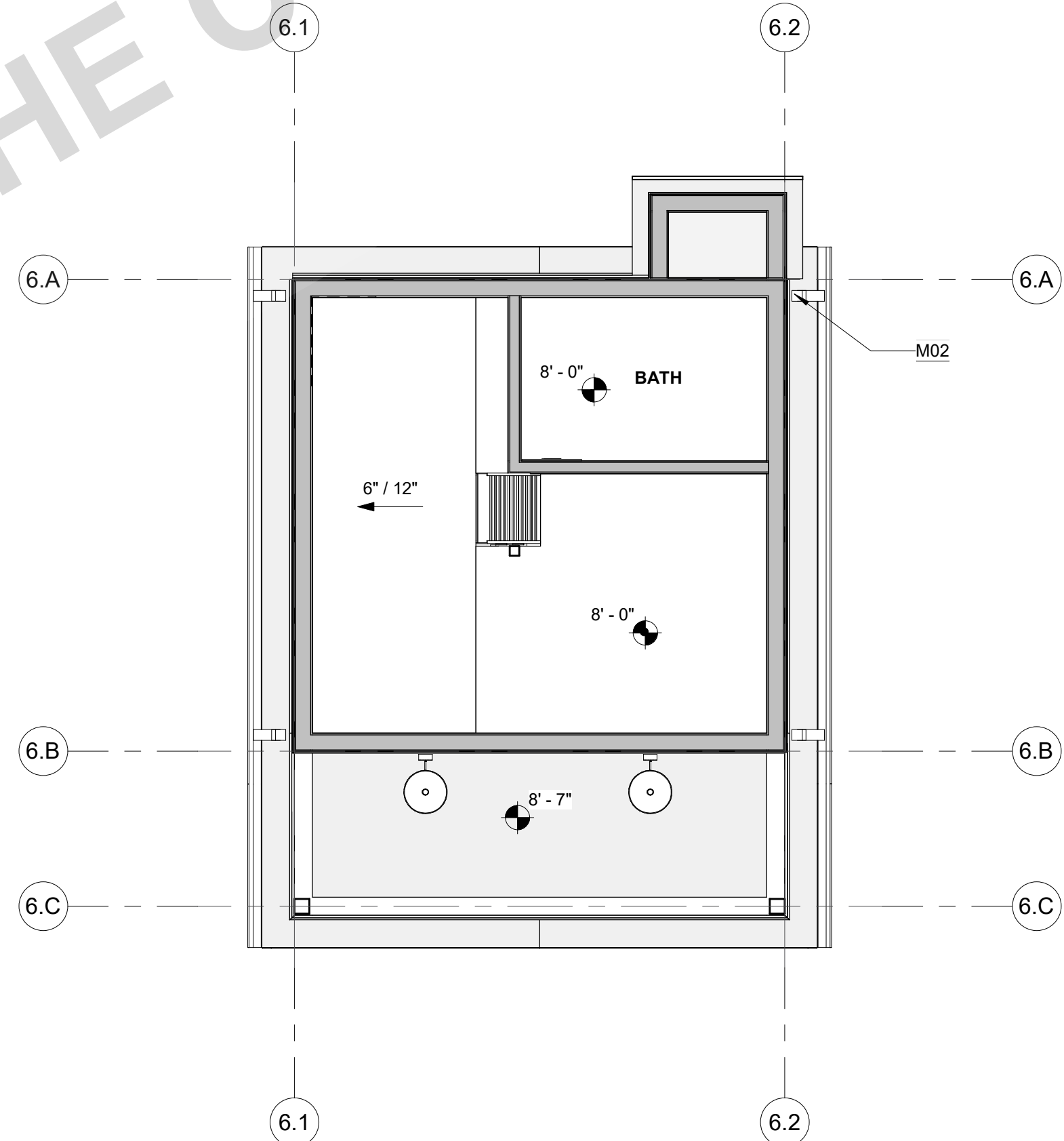
**2 ROOF PLAN - NO FRONT PORCH OPTION**  
A1-201 | A6-123 SCALE: 1/4" = 1'-0"



**4 REFLECTED CEILING PLAN  
NO FRONT PORCH OPTION**  
A1-201 | A6-123 SCALE: 1/4" = 1'-0"



**1 ROOF PLAN**  
A1-201 | A6-123 SCALE: 1/4" = 1'-0"



**3 REFLECTED CEILING PLAN**  
A1-201 | A6-123 SCALE: 1/4" = 1'-0"

## ROOF INSULATION NOTES

ROOF ASSEMBLY SHALL MEET REQUIREMENTS OF CRC CHAPTER 9.

### CRC R806.5 UNVENTED ATTIC

ROOF ASSEMBLY **MINIMUM R-VALUE R-38** REQUIRED PER TITLE-24.

PROPOSED INSULATION: 7.25" OF AIR-IMPERMEABLE CLOSED CELL SPRAY FOAM INSULATION WITH R-VALUE OF 5.25 MINIMUM.

$$7.25" (\text{MIN.}) (X) R-5.25 = \mathbf{R-38 \text{ TOTAL}}$$

**NOTE:** HIGHER PERFORMING AIR-IMPERMEABLE CLOSED CELL SPRAY INSULATION MAY BE USED TO MEET THE R-38 REQUIRED TOTAL.

EXAMPLE: 5.5" OF **AIR IMPERMEABLE** CLOSED CELL SPRAY FOAM INSULATION WITH R-VALUE OF 7.

$$5.43" (\text{MIN.}) (X) R-7 = \mathbf{R-38 \text{ TOTAL}}$$

**NOTE:** MINIMUM INSULATION DEPTH REQUIRED FOR MOISTURE CONTROL VARIES BY CLIMATE LOCATION. SEE CALIFORNIA ENERGY CODE PROVISIONS, FIGURE 100. 1-A OF THE CALIFORNIA ENERGY CODE FOR SITE SPECIFIC PROJECT.

AN UNVENTED ATTIC IN CLIMATE **ZONE 5** REQUIRES MINIMUM AIR-IMPERMEABLE INSULATION OF **R-20** PER **CRC 806.5** TABLE R806.5 FOR MOISTURE CONTROL.

AN UNVENTED ATTIC IN CLIMATE **ZONE 4B** REQUIRES MINIMUM AIR-IMPERMEABLE INSULATION OF **R-15** PER **CRC 806.5** TABLE R806.5 FOR MOISTURE CONTROL.

## RCP GENERAL NOTES

- REFER TO GENERAL NOTES SHEET G-102 FOR ADDITIONAL REQUIREMENTS.
- HEIGHT OF CEILINGS SHALL BE MEASURED FROM TOP OF SLAB OR FLOOR TO FINISH FACE OF G.W.B., U.N.O.
- REFER TO ELECTRICAL PLANS FOR LIGHT FIXTURE AND EXHAUST LOCATIONS.
- DIMENSIONS ARE TO THE FACE OF FRAMING UNLESS OTHERWISE NOTED.
- LABEL MATERIAL SELECTIONS ON ALL RAKES, EAVES, PORCH SOFFITS, & OVERHANGS (A, B, C, ...).

## MATERIALS LEGEND

**GRAPHICS LEGEND:** OWNER/APP. TO PROVIDE MANUFACTURER, COLOR/FINISH SPECIFICATIONS, & WUI (WHEN REQ.) PRODUCT LISTINGS:

ROOFING: SEE MATERIALS LEGEND ON ELEVATION SHEET FOR MORE INFORMATION. CLASS A ROOF REQ. BY WUI.

INTERIOR CEILING FINISH, TYP. 5/8" GYP. INSTALL PER MFR RECOMMENDATIONS  
**NOTE:** SEE MANUFACTURER'S PRODUCT LISTINGS FOR IMPROVED SOUND AND/OR MOISTURE/MOLD/MILDEW-RESISTANT PERFORMANCE PRODUCTS. VISIT GYPSUM.ORG FOR MORE INFORMATION.

EXTERIOR EAVES, SOFFITS, & PORCHES, & OVERHANGS

- A) 2X TOUNGE & GROOVED (SOLID SAWN LUMBER)  
B) FIBER CEMENT SOFFIT PANELS  
C) HARDBOARD SOFFIT PANELS  
D) EXT. GRADE FIRE RETARDANT TREATED SHEATHING  
(LABEL SELECTION ON REFLECTED CEILING PLAN)

- NOTES:**
- SOFFIT MATERIALS TO MEET REQ. OF **CRC 337** & **CRC 704**.
  - INSTALL ALL MATERIALS, FASTENERS, & COMPONENTS PER MANUFACTURER'S SPECIFICATIONS & RECOMMENDATIONS
  - INSTALL ADDITIONAL BLOCKING AS NEEDED TO MEET ATTACHMENT REQUIREMENTS PER **CRC TABLE R702.3.5**
  - A PROJECT SITE WITHIN THE WILDLAND-URBAN INTERFACE FIRE AREA SHALL COMPLY WITH THE **CRC SECTION R337**. IF WUI APPROVED PRODUCTS ARE REQUIRED, PROVIDE SELECTED PRODUCT LISTINGS IN THE SPACES PROVIDED.

## ROOF PLAN & RCP LEGEND

- XX'-X" CEILING HEIGHT (SEE PLAN FOR ACTUAL HEIGHTS)
- X : 12 ROOF SLOPE (REFER TO PLANS FOR ACTUAL SLOPE)
- X : 12 CEILING SLOPE (REFER TO PLANS FOR ACTUAL SLOPE)
- 22"X30" MIN. ATTIC ACCESS PANEL (WHERE REQ.)
- DORMER STYLE ROOF VENT, SEE ROOF VENTING CALCULATIONS **24/A-913**
- OUTLINE OF WALL BELOW
- GUTTER, CONNECT TO DOWNSPOUT; SEE DETAIL: **12/A-904**
- APPROXIMATE LOCATION OF DOWNSPOUT/LEADER TO ROOF OR SPLASHBLOCK BELOW; SEE DETAILS:
- XX SF AVAILABLE SOLAR ZONE LOCATIONS; PV SYSTEM UNDER SEPERATE PERMIT. SEE TITLE 24 REPORT FOR MORE INFORMATION
- AREA OF ATTIC WITH 30" HEIGHT OR GREATER, 22" X 30" CLEAR OPENING ACCESS REQUIRED IF TOTAL AREA GREATER THAN 30 SQ. FT. PER **CRC R807.1**

## ROOF PLAN GENERAL NOTES

- REFER TO GENERAL NOTES SHEET G-101 FOR ADDITIONAL REQUIREMENTS
- REFER TO STRUCTURAL PLANS FOR ROOF FRAMING INFORMATION INCLUDING MEMBER SIZES AND CONNECTION HARDWARE.
- REFER TO MECHANICAL PLANS FOR ROOF MOUNTED EQUIPMENT LOCATIONS AND TYPES.
- REFER TO ELECTRICAL PLANS FOR POWER DISTRIBUTION TO ROOF MOUNTED EQUIPMENT.
- REFER TO PLUMBING PLANS ROOF VENT PENETRATIONS.
- REFER TO SITE/GRADING PLAN FOR DOWNSPOUT DISCHARGE OR CONTINUATION.
- FOR VENTED ROOF CONFIGURATIONS:** PROVIDE A MINIMUM OF 1 INCH OF AIRSPACE BETWEEN THE INSULATION AND ROOF SHEATHING.
- FOR UN-VENTED ROOF CONFIGURATIONS:** ROOF ASSEMBLY TO MEET CODE REQUIREMENTS OF **CRC R806.5**. PROVIDE MINIMUM 2" HIGH DENSITY CLOSE CELL INSULATION. PROVIDE ADDITIONAL INSULATION AS NEEDED TO MEET MINIMUM ROOF ASSEMBLY R-VALUE REQUIRED BY TITLE-24.
- WHERE THE ROOF PROFILE ALLOWS A SPACE BETWEEN THE ROOF COVERING AND DECKING, THE SPACES SHALL BE CONSTRUCTED TO PREVENT THE INTRUSION OF FLAMES AND EMBERS, BE FIRESTOPPED WITH APPROVED MATERIALS OR HAVE ONE LAYER OF MINIMUM 72 POUND MINERAL SURFACED NONPERFORATED CAP SHEET OVER THE COMBUSTIBLE DECKING.
- ALL ROOFING MATERIALS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- OVERHANG DIMENSIONS ARE FROM FACE OF EXTERIOR WALL FRAMING TO ROOF EDGE.
- ROOF COVERINGS AND UNDERLAYMENT SHALL BE APPLIED IN ACCORDANCE WITH (**CBC 1507.1**), AND MANUFACTURER'S INSTALLATION INSTRUCTIONS
- WHERE PROVIDED, VENTILATION OPENINGS SHALL BE IN ACCORDANCE WITH (**CBC SECTION 1202**). EXTERIOR OPENINGS INTO THE ATTIC SPACE SHALL BE COVERED WITH CORROSION-RESISTANT WIRE CLOTH SCREENING, HARDWARE CLOTH, PERFORATED VINYL OR SIMILAR MATERIAL. THE OPENINGS SHALL BE A MINIMUM OF 1/16" AND SHALL NOT EXCEED 1/4" PER (**CBC 1202.2.2**)
- ROOF VENTS SHALL BE APPLIED PER MANUFACTURER'S SPECIFICATIONS
- FURNISHED DIMENSIONS FOR VENTS ARE GUIDES ONLY. INSTALL PER MANUFACTURERS SPECIFICATIONS AND ADJUST TO ACCOMMODATE TRUSS LOCATIONS, PLUMBING VENTS, AND SOLAR COLLECTORS.

## KEYNOTES

- H07 BUILDING LINE BELOW.  
K05 COMPOSITE ROOF SHINGLES, SEE MATERIALS LEGEND FOR MORE INFO.
- M01 GUTTER. CONNECT TO DOWNSPOUT. PROVIDE MEANS TO PREVENT ACCUMULATION OF LEAVES AND DEBRIS IN GUTTER PER **CRC R337.5.4**
- M02 DOWNSPOUT. CONNECT TO STORM DRAIN SYSTEM OR APPROVED DRAINAGE SYSTEM BY COUNTY.

## ROOF VENTING CALCULATIONS

### UPPER & LOWER VENTS:

O'HAGIN TAPERED LOW PROFILE FIRE & ICE COMPOSITION SHINGLE FINISH TO MATCH ROOF  
72.0 SQ. IN. OF AIR MOVEMENT PER VENT = 72. SQ. IN. / 144 = 0.5 SF

"UPPER VENTS PROVIDED" = (TOTAL ATTIC AREA/300) \* (0.5) / (0.5 SF)

"LOWER VENTS PROVIDED" = (TOTAL ATTIC AREA/300) \* (0.5) / (0.5 SF)

**NOTE:** ROOF VENTING SHALL COMPLY WITH **CRC R806** & **CRC 337**.

A) ENCLOSED ATTICS AND ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE BY VENTILATING OPENINGS PROTECTED AGAINST THE ENTRANCE OF RAIN OR SNOW. VENTILATION OPENINGS SHALL HAVE A LEAST DIMENSION OF 1/16 INCH MINIMUM AND 1/4 INCH MAXIMUM. OPENINGS IN ROOF FRAMING MEMBERS SHALL CONFORM TO THE REQUIREMENTS OF SECTION R802.7. REQUIRED VENTILATION OPENINGS SHALL OPEN DIRECTLY TO THE OUTSIDE AIR AND SHALL BE PROTECTED TO PREVENT THE ENTRY OF BIRDS, RODENTS, SNAKES AND OTHER SIMILAR CREATURES.

B) THE MINIMUM NET FREE VENTILATING AREA SHALL COMPLY WITH **CRC R806.2**.

C) PER **CRC R902.1.3** ROOFING REQUIREMENTS FOR STRUCTURES LOCATED IN A WILDLAND-URBAN INTERFACE (WUI) FIRE AREA SHALL COMPLY WITH SECTION R337.5.

D) THE PRODUCT ABOVE CAN BE FOUND IN THE CAL-FIRE STATE FIRE MARSHAL LISTED WILDLAND URBAN INTERFACE (WUI) PRODUCT HANDBOOK.

COUNTY OF SAN LUIS OBISPO  
ACCESSORY DWELLING UNIT  
SAN LUIS OBISPO, CA

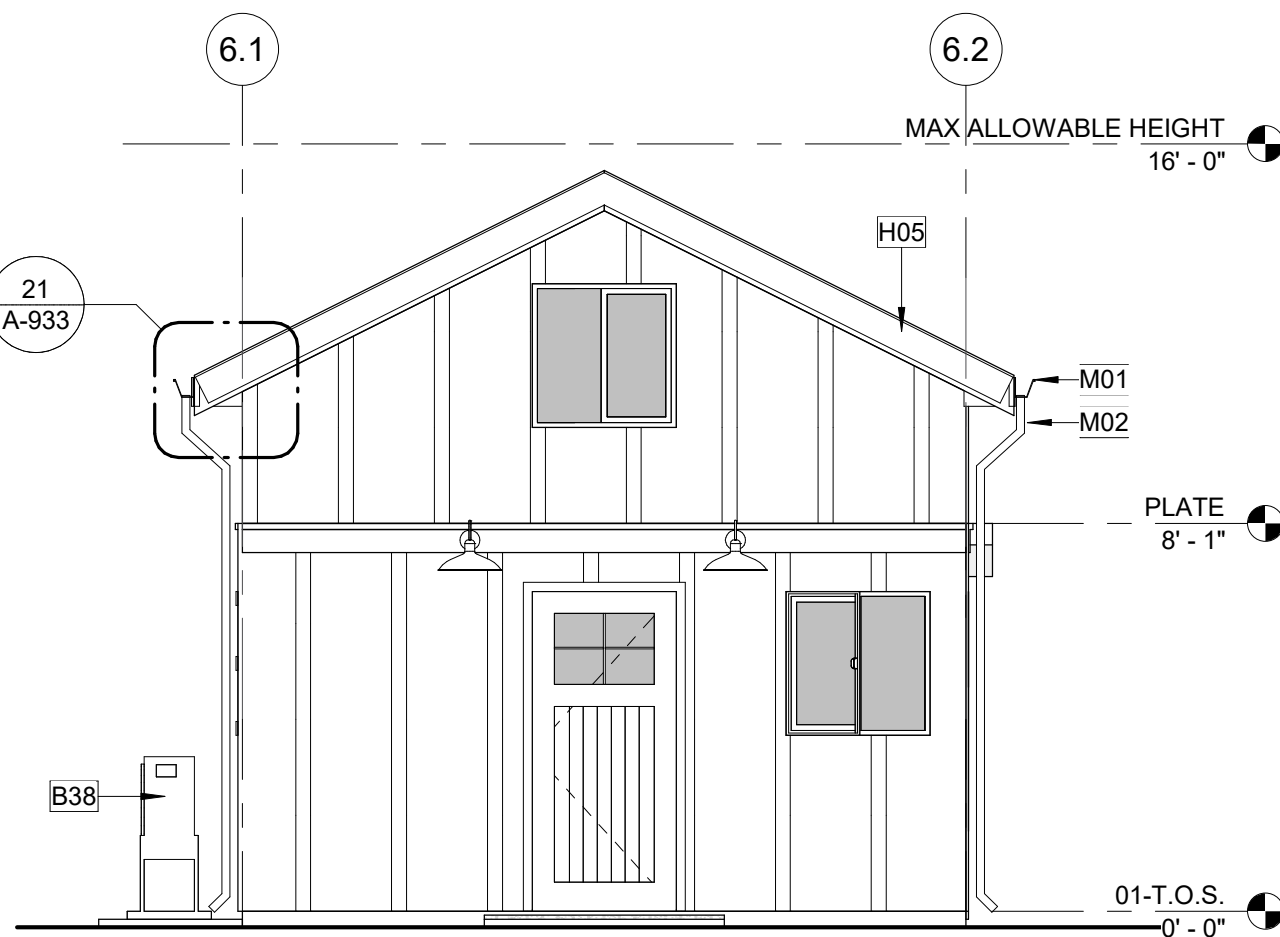
ROOF PLAN & REFLECTED  
CEILING PLAN

DATE  
11/28/2023  
SHEET

A6-123

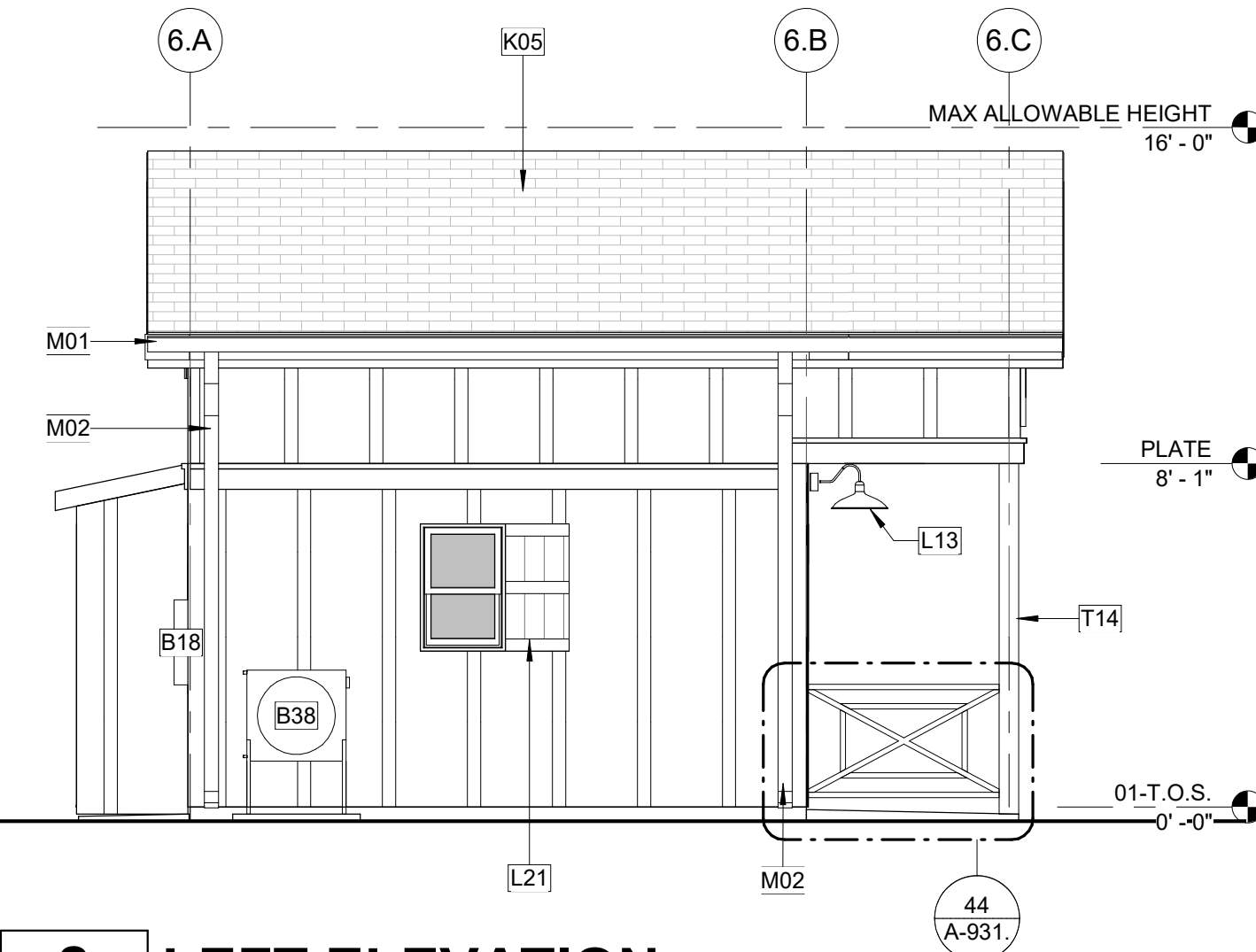


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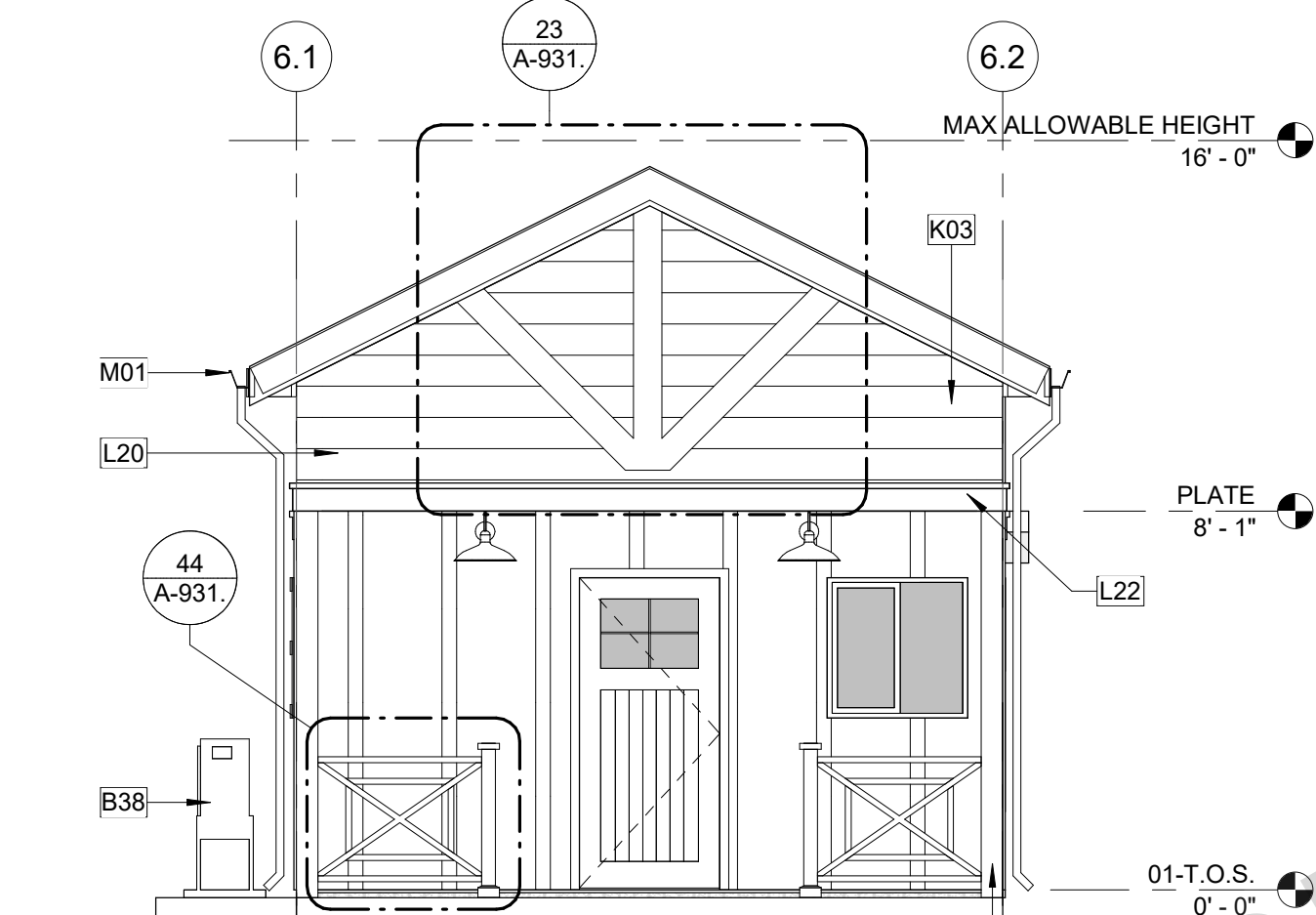
**3 FRONT ELEVATION  
NO FRONT PORCH OPTION**

A6-203 SCALE: 1/4" = 1'-0"



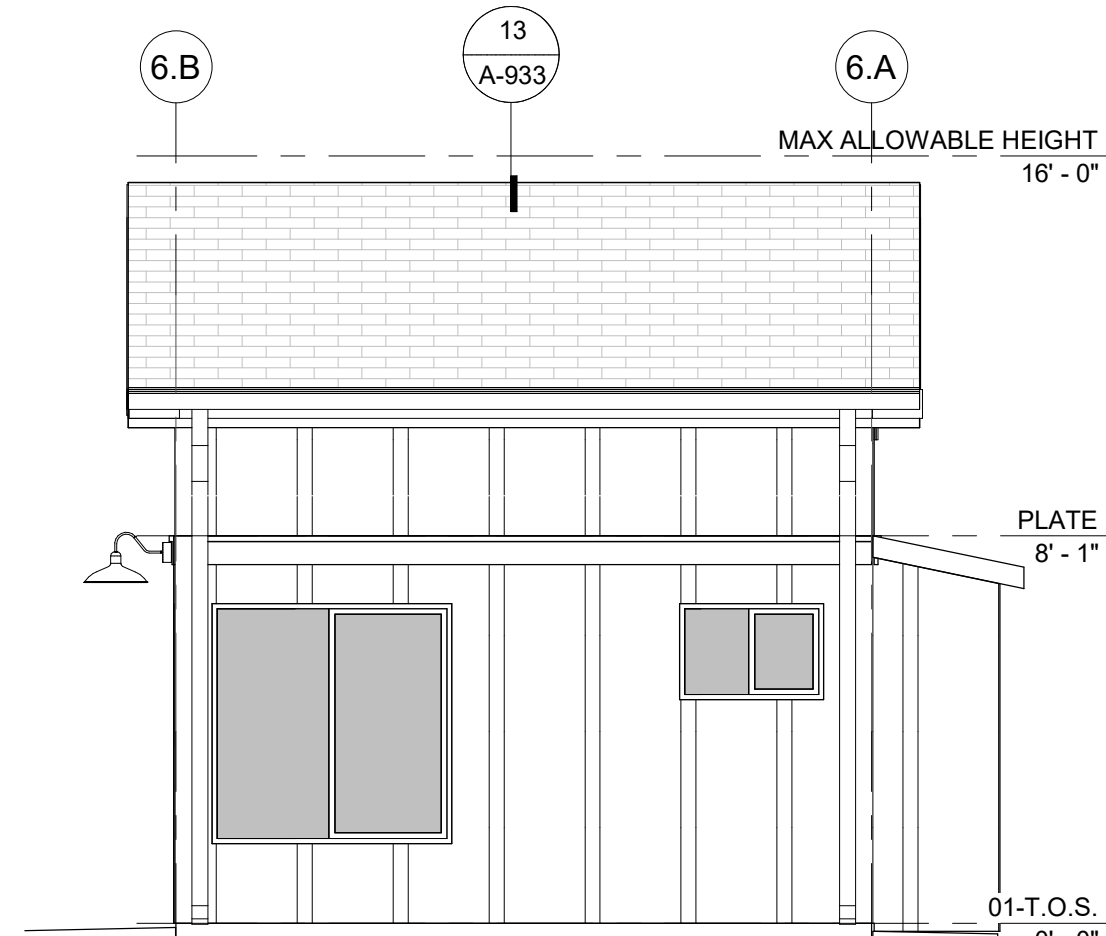
**2 LEFT ELEVATION**

A6-101 A6-203 SCALE: 1/4" = 1'-0"



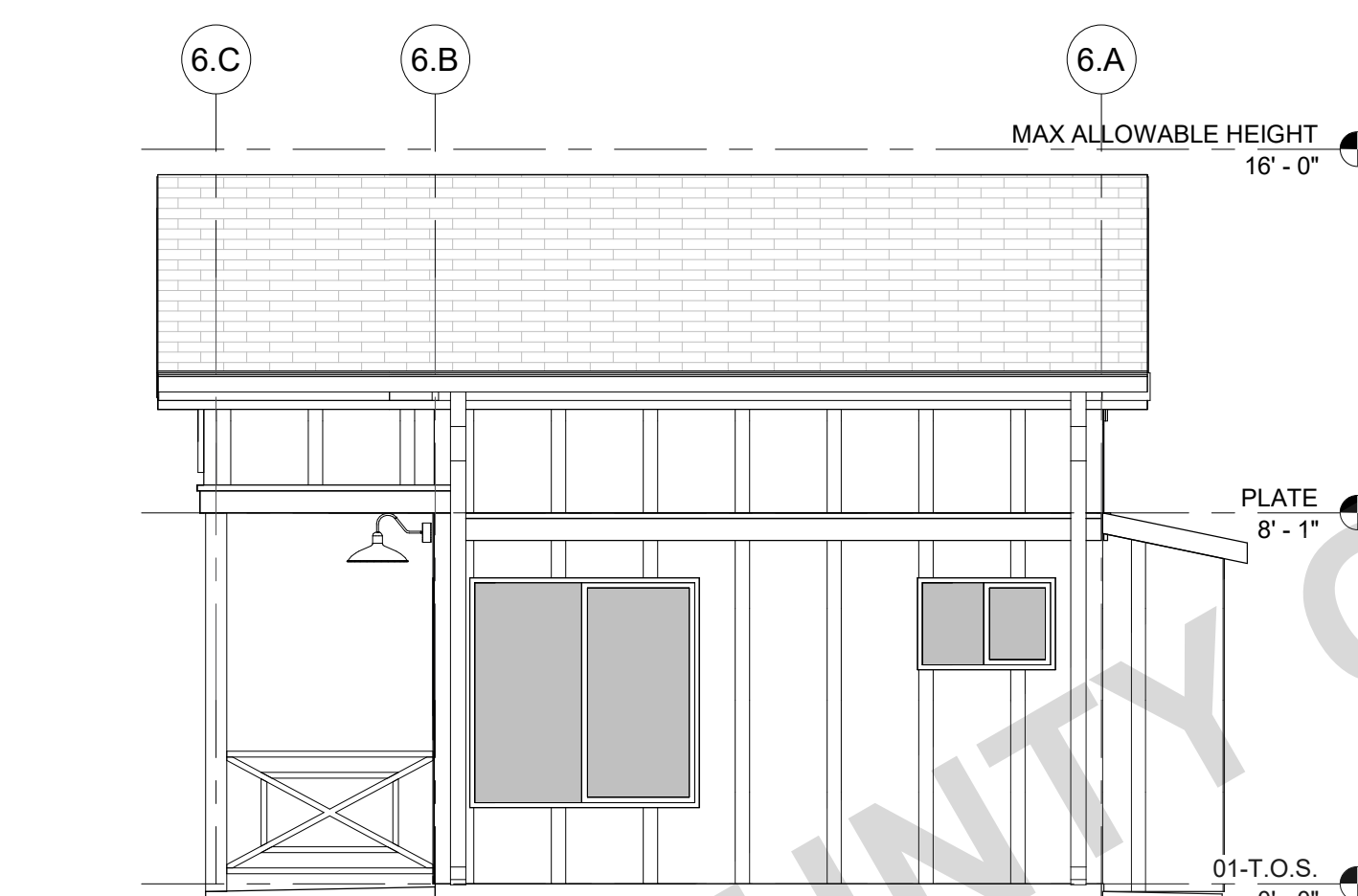
**1 FRONT ELEVATION**

A6-103 A6-203 SCALE: 1/4" = 1'-0"



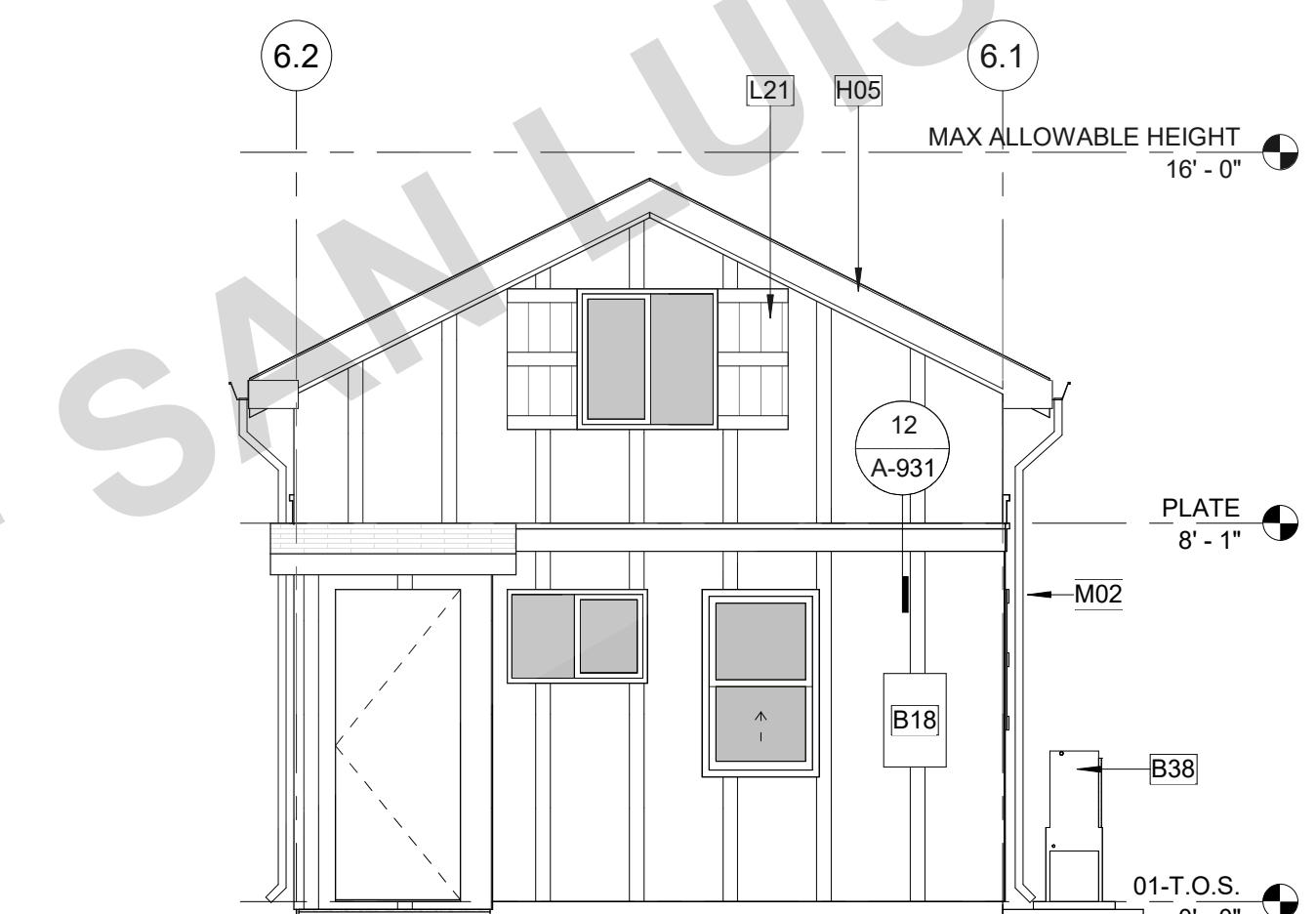
**6 RIGHT ELEVATION  
NO FRONT PORCH OPTION**

A6-203 SCALE: 1/4" = 1'-0"



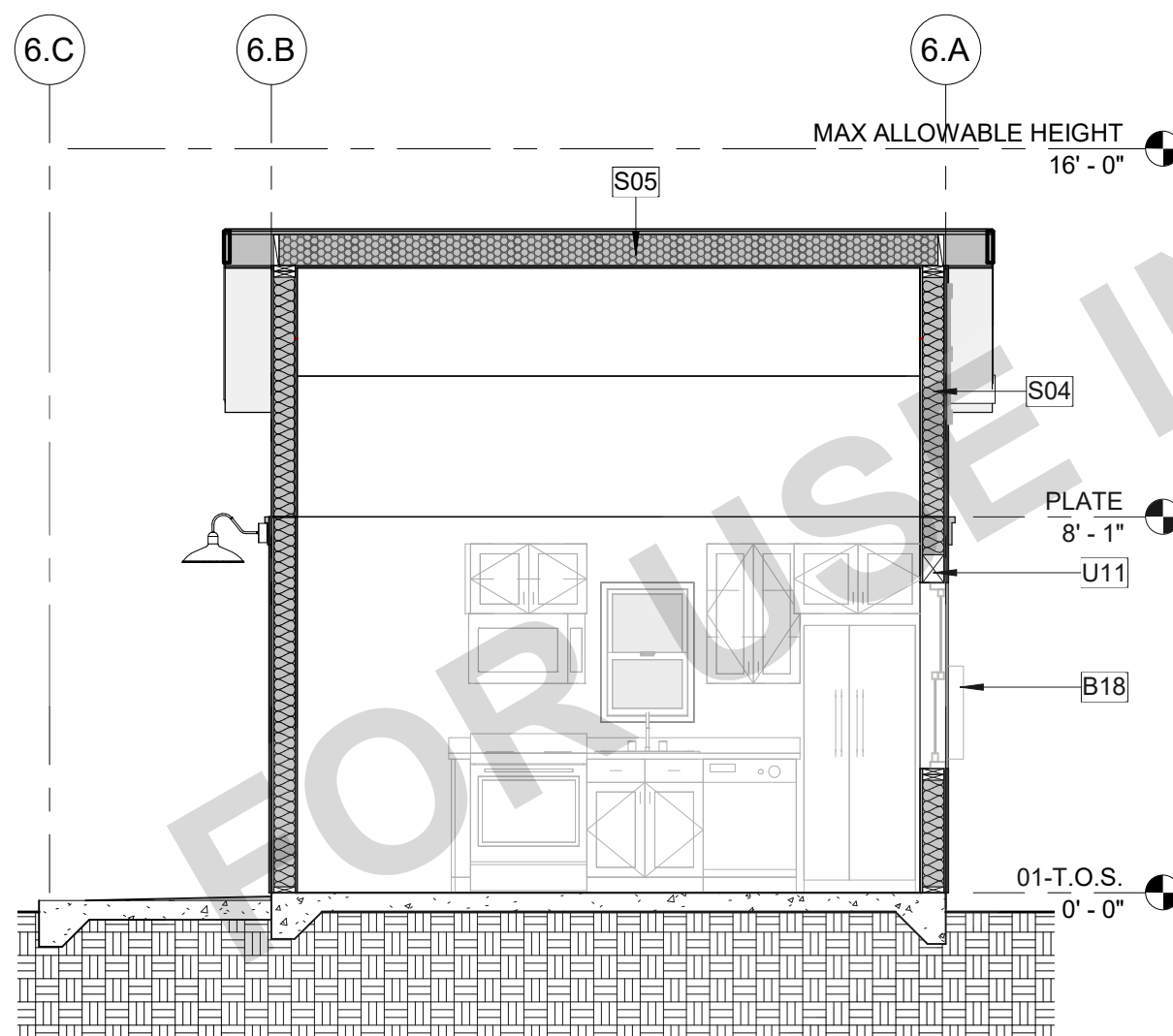
**5 RIGHT ELEVATION**

A6-103 A6-203 SCALE: 1/4" = 1'-0"



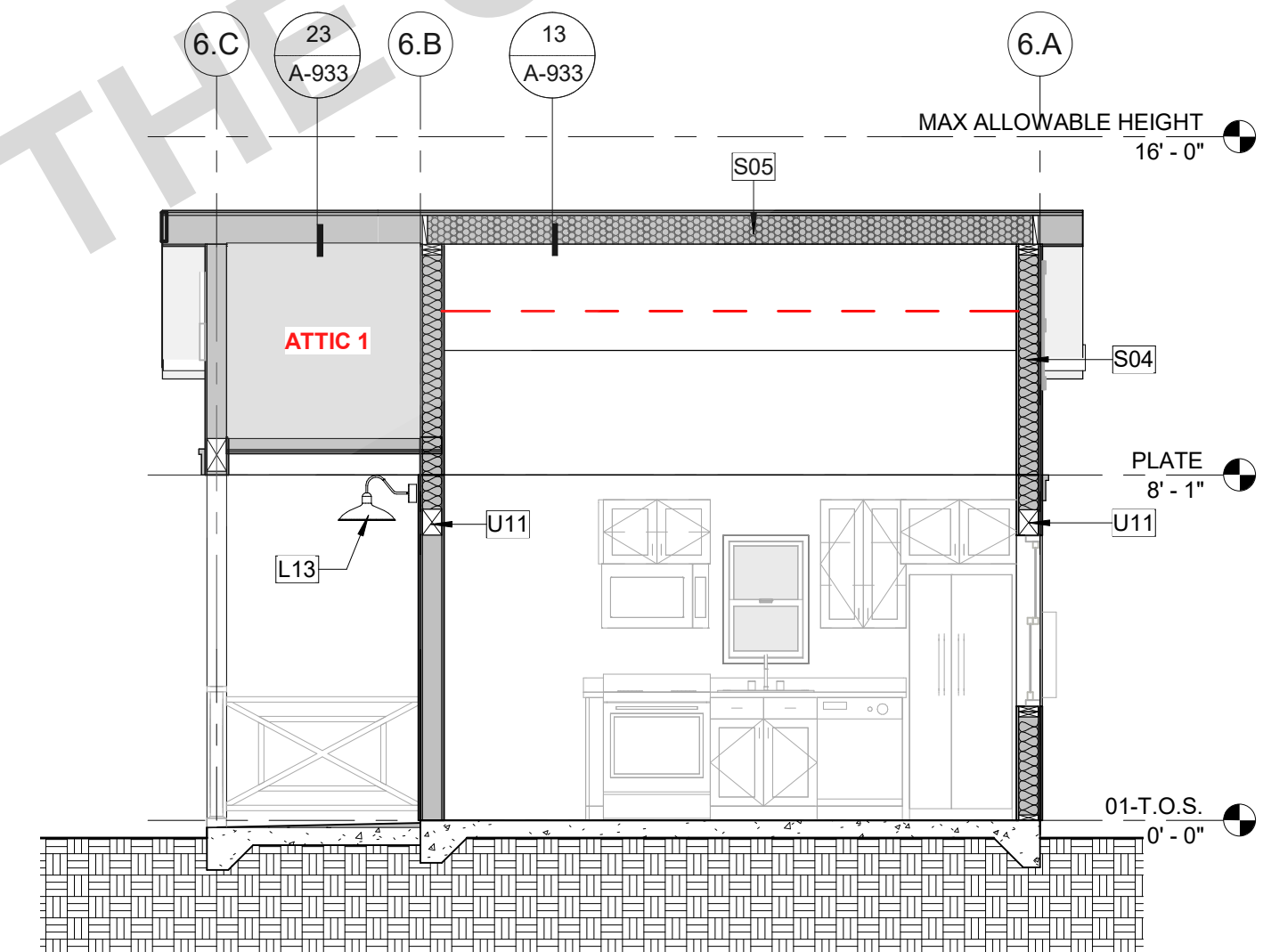
**4 REAR ELEVATION**

A6-103 A6-203 SCALE: 1/4" = 1'-0"



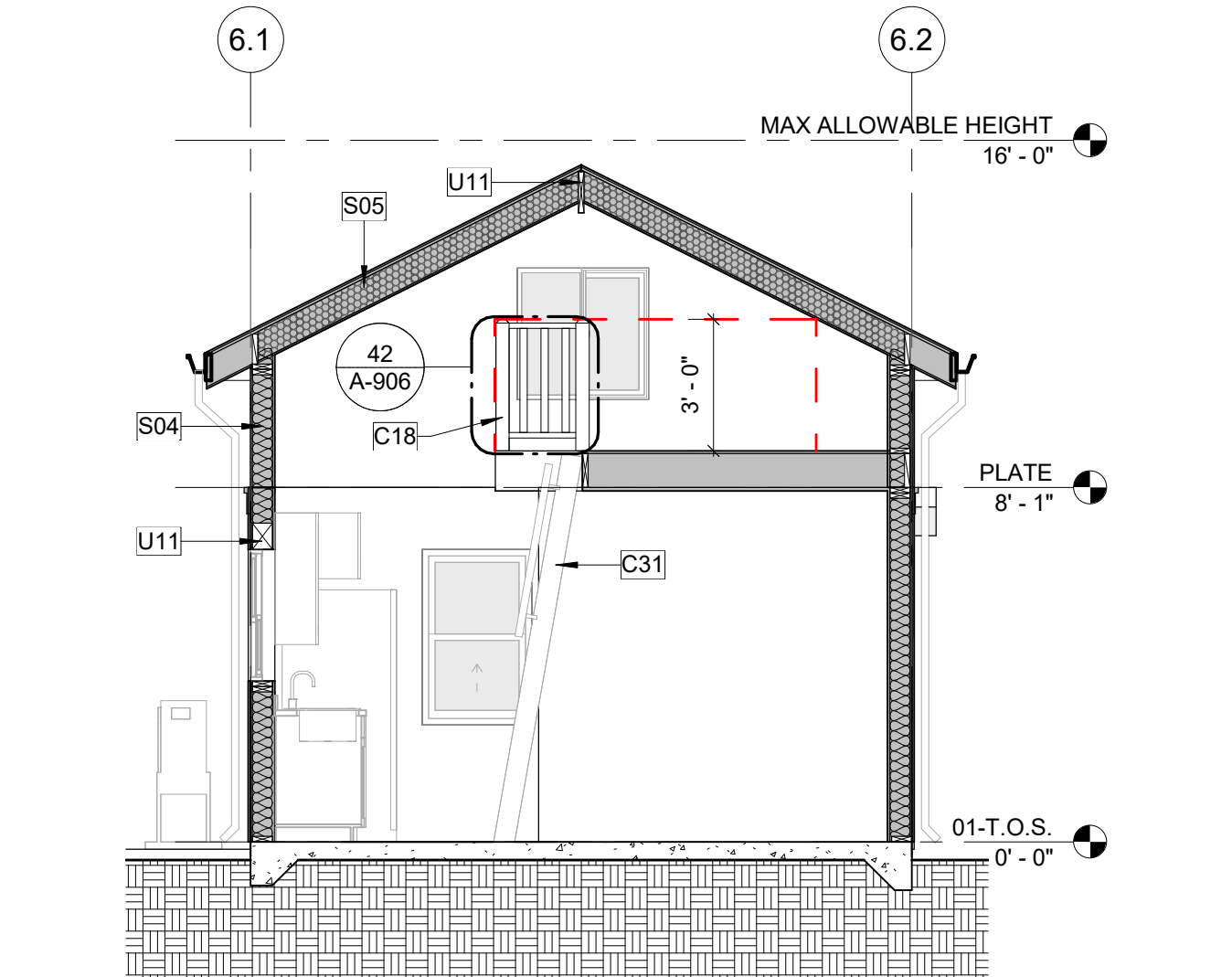
**9 SECTION 02 - NO PORCH OPTION**

A6-103 A6-203 SCALE: 1/4" = 1'-0"



**8 SECTION 02**

A6-103 A6-203 SCALE: 1/4" = 1'-0"



**7 SECTION 01**

A6-103 A6-203 SCALE: 1/4" = 1'-0"

## MATERIALS LEGEND

- COLOR SCHEMES AND FINISH OF PRODUCT SELECTIONS RECOMMENDED TO MATCH PRIMARY RESIDENCE. **INSTALL ALL MATERIAL SELECTIONS PER MANUFACTURER'S RECOMMENDATIONS.**
- A PROJECT SITE WITHIN THE WILDLAND-URBAN INTERFACE FIRE AREA SHALL COMPLY WITH THE **CRC SECTION R337**. IF WUI APPROVED PRODUCTS ARE REQUIRED, PROVIDE SELECTED PRODUCT LISTINGS IN THE SPACES PROVIDED. WHEN NOT REQUIRED, WRITE "NOT APPLICABLE."
- APPROVED PRODUCT LISTINGS CAN BE FOUND IN THE (CURRENT) CAL-FIRE STATE FIRE MARSHAL LISTED WILDLAND URBAN INTERFACE **WUI** PRODUCT HANDBOOK.
- IF PROJECT SITE REQUIRES **WUI** COMPLIANCE, IN THE CASE THAT PRODUCT SELECTIONS ARE NOT BML LISTED, NOR IN THE HANDBOOK, MATERIALS SHALL COMPLY WITH THE PRESCRIPTIVE STANDARDS OF **CHAPTER 7A**.

### GRAPHICS LEGEND:

MARK ALL THAT APPLY AND LABEL ALL SURFACES ON THE ELEVATIONS

- |  |  |
|--|--|
|  | <input type="checkbox"/> E) FIBER CEMENT - BOARD & BATTEN PATTERN (SHALL MEET ALL REQ. OF <b>CRC 337</b> & <b>CRC R703.10.2</b> , <b>CRC R703.10.1</b> ) |
|  | <input type="checkbox"/> F) VERTICAL EXT. GRADE WOOD SIDING - BOARD & BATTEN PATTERN (SHALL MEET ALL REQ. OF <b>CRC 337</b> & <b>CRC R703.5.3</b> )      |
|  | <input type="checkbox"/> G) FIBER CEMENT PANEL SIDING - HORIZONTAL PATTERN (SHALL MEET ALL REQ. OF <b>CRC 337</b> & <b>CRC R703.10.1</b> )               |
|  | <input type="checkbox"/> H) EXT. GRADE WOOD PANEL SIDING (SHALL MEET ALL REQ. OF <b>CRC 337</b> & <b>CRC R703.5.2</b> )                                  |

OWNER/APP. TO PROVIDE MANUFACTURER, COLOR/FINISH SPECIFICATIONS, & WUI (WHEN REQ.) PRODUCT LISTINGS:

### GRAPHICS LEGEND:

- |  |   |
|--|---|
|  | <b>ASPHALT COMPOSITE ROOF SHINGLES</b><br>(SHALL COMPLY WITH <b>CRC 337</b> & <b>CRC R905.2.4</b> & <b>ASTM D3462</b> ) |
|  | CLASS-A ROOF ASSEMBLY REQ. PER WUI:<br><input type="checkbox"/> YES <input type="checkbox"/> NO                         |

OWNER/APP. TO PROVIDE MANUFACTURER, COLOR/FINISH SPECIFICATIONS, & WUI (WHEN REQ.) PRODUCT LISTINGS:

## GENERAL ELEVATION NOTES

- REFER TO GENERAL NOTES SHEET G-102 FOR ADDITIONAL REQUIREMENTS
- SEE DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- REFER TO ROOF PLAN FOR OVERHANGS, FASCIA PER DETAILS. PROVIDE ALUMINUM GUTTER. SEE ROOF PLAN FOR APPROXIMATE DOWNSPOUT LOCATIONS U.N.O.
- REFER TO DOOR AND WINDOW SCHEDULES AND TYPES FOR DOOR AND WINDOW INFORMATION.
- THE NOMINAL THICKNESS AND ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE IN ACCORDANCE WITH CRC TABLE R703.3(1).
- GYPSUM SHEATHING SHALL BE ATTACHED TO EXTERIOR WALLS IN ACCORDANCE WITH CRC TABLE R602.3.

## SECTIONS GENERAL NOTES

- THE PURPOSE OF THESE DRAWINGS IS TO SHOW CONSTRUCTION MATERIALS/ASSEMBLIES. FOR SPECIFIC SIZES AND DETAILS REFER TO ARCHITECTURAL PLANS, ELEVATIONS, DETAILS, AND STRUCTURAL PLANS. \*KEYNOTES ONLY APPLY IF REFERENCED ON PLANS.
- WALL ASSEMBLIES TO BE PER FLOOR PLAN.
- DOORS AND WINDOWS TO BE PER APPLICABLE SCHEDULE. REFER TO FLOOR PLANS FOR IDENTIFICATION.
- INSULATION: REFER TO TITLE 24 REPORT AND "INSULATION" NOTES ON SHEET FOR ADDITIONAL RATINGS, REQUIREMENTS, AND INFORMATION.
- FIREBLOCKING TO BE LOCATED AT THE FOLLOWING LOCATIONS PER **2022 CRC SECTION R302.11**:
  - SECTION R302.11.1**:
    - FIREBLOCKING SHALL BE PROVIDED IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, AS FOLLOWS:
      - VERTICALLY AT CEILING AND FLOOR LEVELS
      - HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET.
    - AT INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS SOFFITS, DROP CEILINGS AND COVE CEILINGS.
    - IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN. ENCLOSED SPACES UNDER STAIRS SHALL COMPLY WITH **SECTION R302.7**.
    - AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES AND WIRES AT CEILINGS AND FLOOR LEVEL, WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME PRODUCTS OF COMBUSTION. THE MATERIAL FILLING THIS ANNULAR SPACE SHALL NOT BE REQUIRED TO MEET THE ASTM E136 REQUIREMENTS.
    - FOR THE FIREBLOCKING OF CHIMNEYS AND FIREPLACES, SEE **SECTION R1003.19**.
  - FIREBLOCKING OF CORNICES OF A TWO-FAMILY DWELLING IS REQUIRED AT THE LINE OF DWELLING-UNIT SEPARATION.
- SECTION R302.11.1** - FIREBLOCKING MATERIALS SHALL CONSIST OF FOLLOWING MATERIALS:
  - TWO-INCH NOMINAL LUMBER
  - TWO THICKNESSES OF ONE-INCH NOMINAL LUMBER WITH BROKEN LAP JOINTS
  - THE THICKNESS OF 0.719-INCH WOOD STRUCTURAL PANELS WITH JOINTS BACKED BY 0.719-INCH WOOD STRUCTURAL PANELS
  - THE THICKNESS OF 0.75-INCH PARTICLE BOARD WITH JOINTS BACKED BY 0.75-INCH PARTICLE BOARD
  - ONE-HALF-INCH GYPSUM BOARD
  - ONE-FOURTH-INCH CEMENT-BASED MILLBOARD
  - BATTS OR BLANKETS OF MINERAL WOOL, MINERAL FIBER OR OTHER APPROVED MATERIAL, INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE
  - CELLULOSE INSULATION INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E119 OR UL 263, FOR THE SPECIFIC APPLICATION.
- PER **2022 CRC SECTION R317** SLEEPERS AND SILLS ON A CONCRETE OR MASONRY SLAB THAT IS IN DIRECT CONTACT WITH GROUND, UNLESS SEPARATED BY AN IMPERVIOUS MOISTURE BARRIER SHALL BE NATURALLY DURABLE OR PRESERVATIVE-TREATED WOOD IN ACCORDANCE WITH AWPA U1.

## KEYNOTES

- |     |  |
|-----|--|
| B18 | ELECTRIC PANEL, 100AMP 240V.   |
| B38 | MULTI-ZONE HEAT PUMP CONDENSER UNIT. REFER TO PLANS FOR LOCATION OF INDOOR FAN FAN COIL UNITS. REFER TO TITLE 24 FOR ADDITIONAL INFORMATION. PROVIDE CONCRETE PAD MIN. 6" LARGER THAN UNIT IN EACH DIRECTION, 3" MIN. ABOVE GRADE. |
| C18 | INTERIOR LOFT GUARD (PER CRC AQ104.2.5), ONE HALF OF THE CLEAR HEIGHT TO THE CEILING OR 36" MIN. U.N.O. SEE LOFT GUARD DETAIL 42 ON SHEET A-906 FOR MORE INFORMATION.  |
| C31 | LOFT ACCESS LADDER (PER CRC AQ104.2.2). SEE DETAILS FOR MORE INFORMATION.  |
| H05 | ROOF EDGE/FASCIA. SEE DETAILS FOR FASCIA TYPE.   |
| K03 | EXTERIOR WALL COVERING. SEE TITLE SHEET & MATERIALS LEGEND FOR SELECTIONS & MORE INFO.   |
| K05 | COMPOSITE ROOF SHINGLES. SEE MATERIALS LEGEND FOR MORE INFO.   |
| L13 | LIGHT FIXTURE LOCATION, SEE DETAILS & ELECTRIC PLAN FOR MORE INFO.   |
| L20 | BUILDING SHALL HAVE ADDRESS NUMBERS PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM STREET, MINIMUM OF 4" HIGH WITH A MIN. STROKE OF 1/2" (EXACT LOCATION PER OWNER/APPLICANT).                                      |
| L21 | DECORATIVE SHUTTER. SEE TITLE SHEET & DETAILS FOR STYLE SELECTION & MORE INFORMATION.  |
| L22 | FIBER CEMENT TRIM  |
| M01 | GUTTER. CONNECT TO DOWNSPOUT. PROVIDE MEANS TO PREVENT ACCUMULATION OF LEAVES AND DEBRIS IN GUTTER PER CRC R337.5.4  |
| M02 | DOWNSPOUT. CONNECT TO STORM DRAIN SYSTEM OR APPROVED DRAINAGE SYSTEM BY COUNTY.  |
| S04 | 2X6 WALL INSULATION, R-19 MIN.   |
| S05 | SPRAY FOAM INSULATION, SEE "ROOF INSULATION NOTES" ON ROOF PLAN  |
| T14 | 6X6 POST, REFER TO STRUCTURAL  |
| U11 | WOOD BEAM / HEADER, REFER TO STRUCTURAL.   |

COUNTY OF SAN LUIS OBISPO  
ACCESSORY DWELLING UNIT  
SAN LUIS OBISPO, CA

ELEVATIONS & BUILDING  
SECTIONS

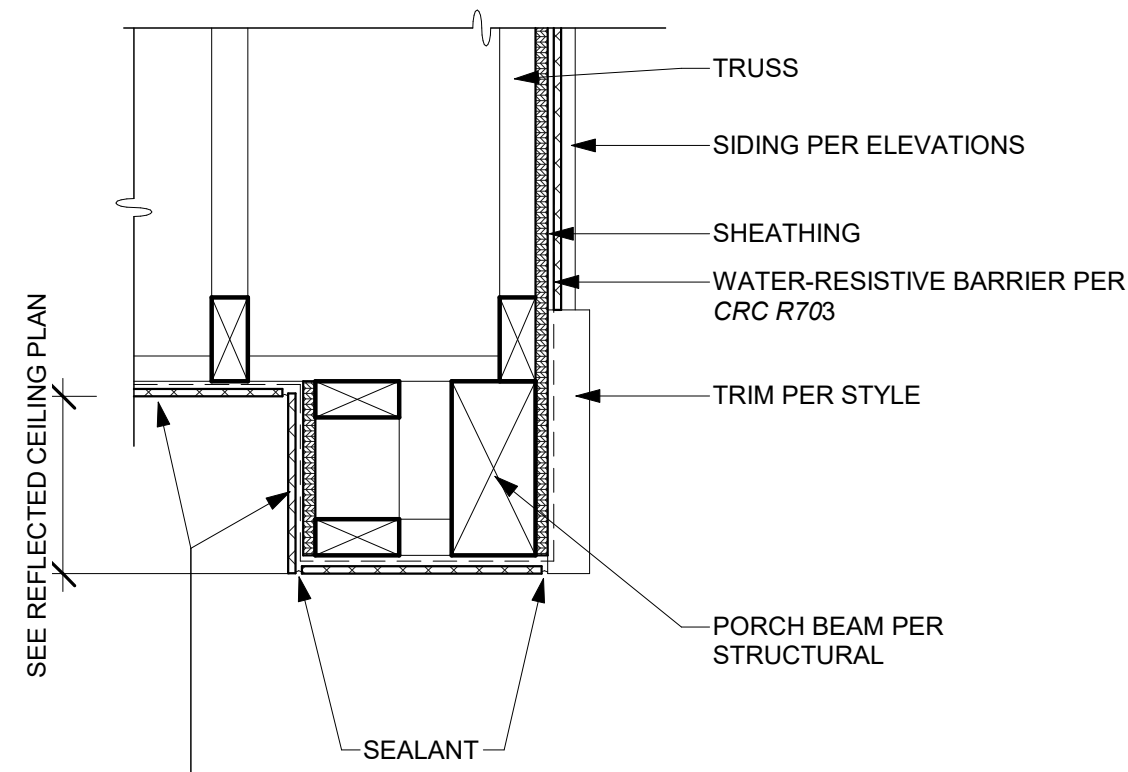
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A6-203



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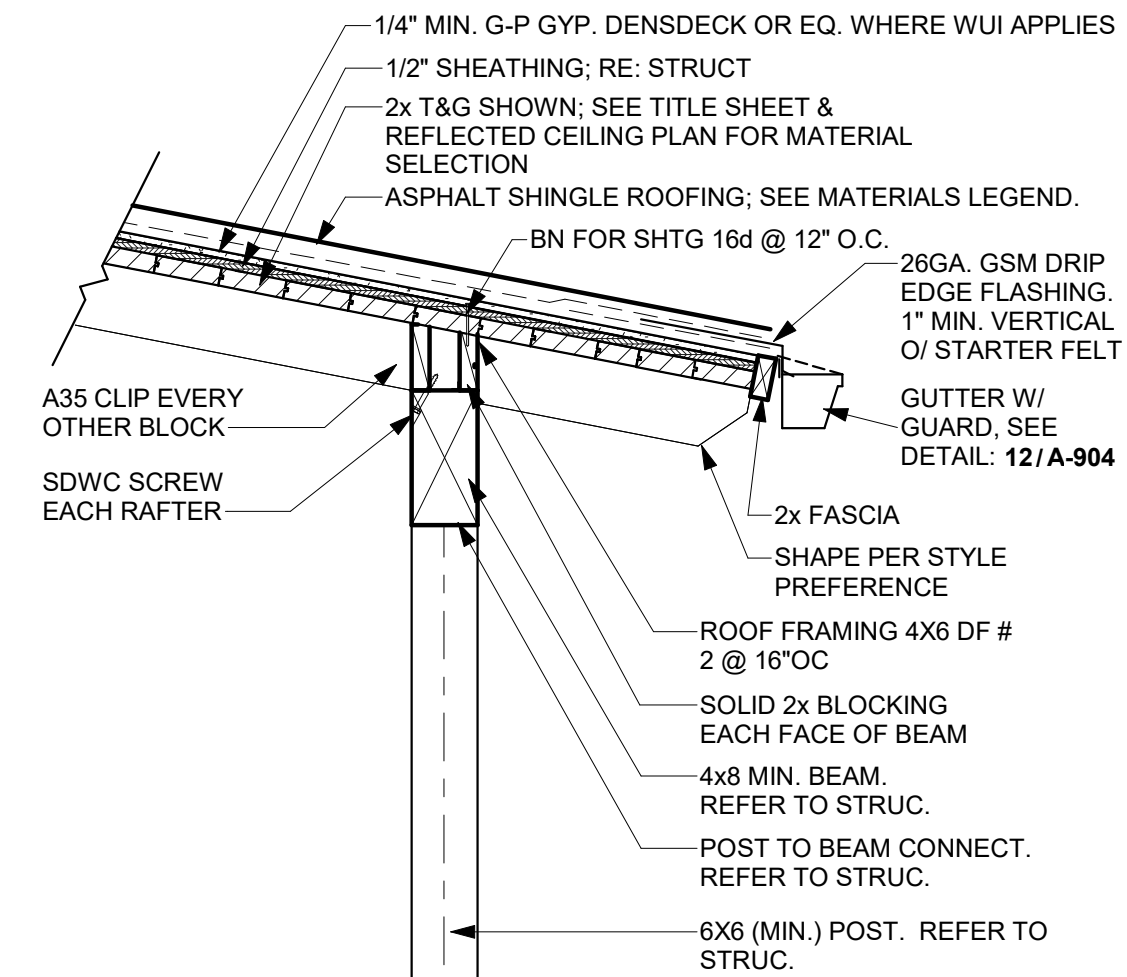


SEE REFLECTED CEILING PLAN

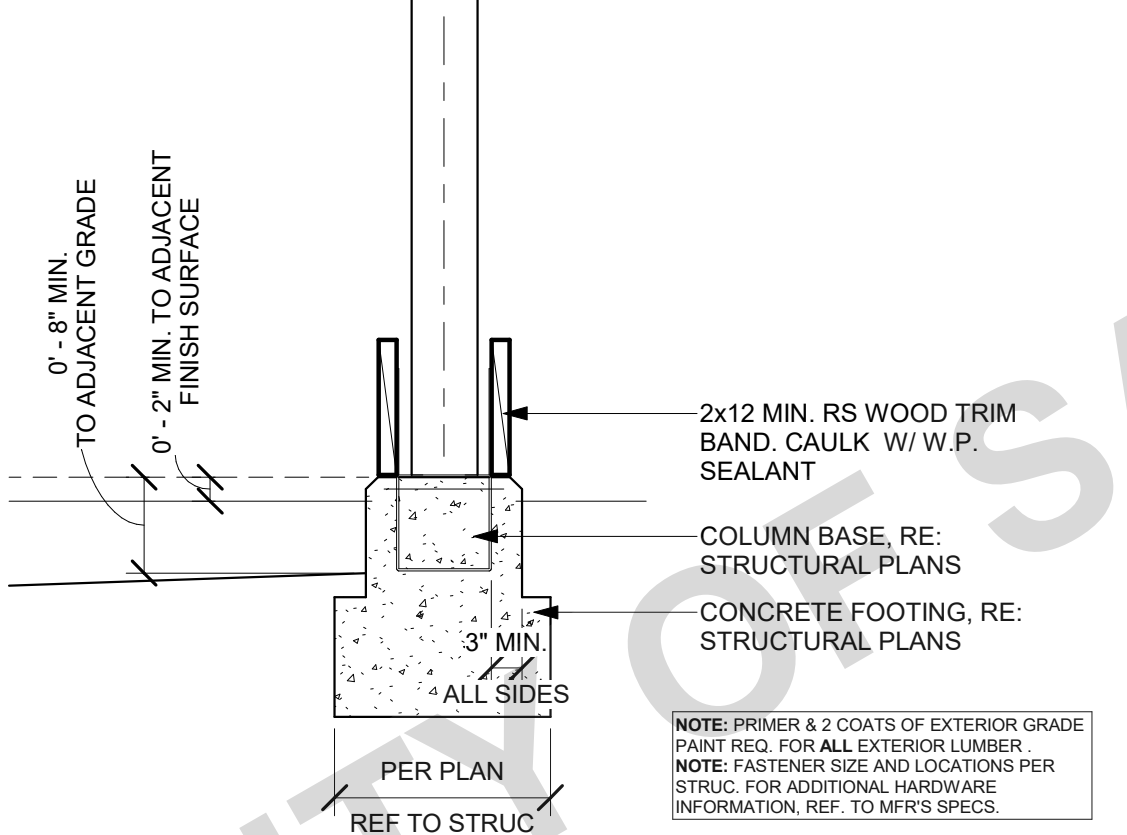
MATERIAL PER REFLECTED CEILING PLANS. INSTALL PER MFR'S SPECIFICATIONS

#### 41 TYP. PORCH BEAM

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

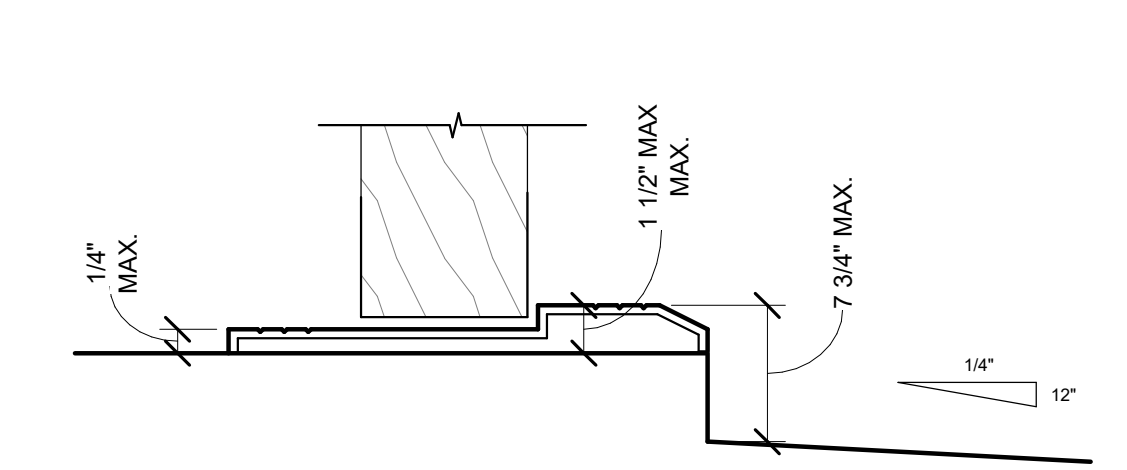


TYP. NOTES  
1. CAULK ALL JOINTS.  
2. PRIME TRIM ALL SIDES.



#### 32 TYP. POST W/ ROOF @ PORCHES

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

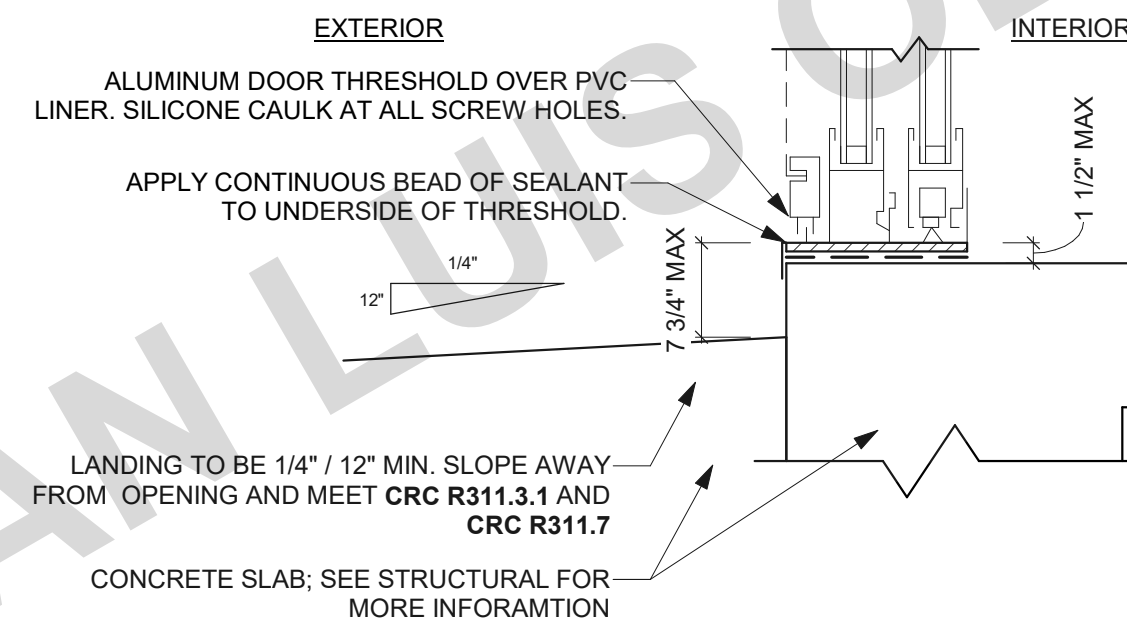


**R311.3.1 FLOOR ELEVATIONS AT THE REQUIRED EGRESS DOORS**  
LANDINGS OR FINISHED FLOORS AT THE REQUIRED EGRESS DOOR SHALL BE NOT MORE THAN 1 1/2 INCHES LOWER THAN THE TOP OF THE THRESHOLD. THE LANDING OR FLOOR ON THE EXTERIOR SIDE SHALL BE NOT MORE THAN 7 3/4 INCHES BELOW THE TOP OF THE THRESHOLD PROVIDED THAT THE DOOR DOES NOT SWING OVER THE LANDING OR FLOOR.

WHERE EXTERIOR LANDINGS OR FLOORS SERVING THE REQUIRED EGRESS DOOR ARE NOT AT GRADE, THEY SHALL BE PROVIDED WITH ACCESS TO GRADE BY MEANS OF A RAMP IN ACCORDANCE WITH **CRC R311.8** OR A STAIRWAY IN ACCORDANCE WITH **CRC R311.7**.

#### 21 EXTERIOR DOOR THRESHOLD - TYPICAL

SCALE: 6" = 1'-0"

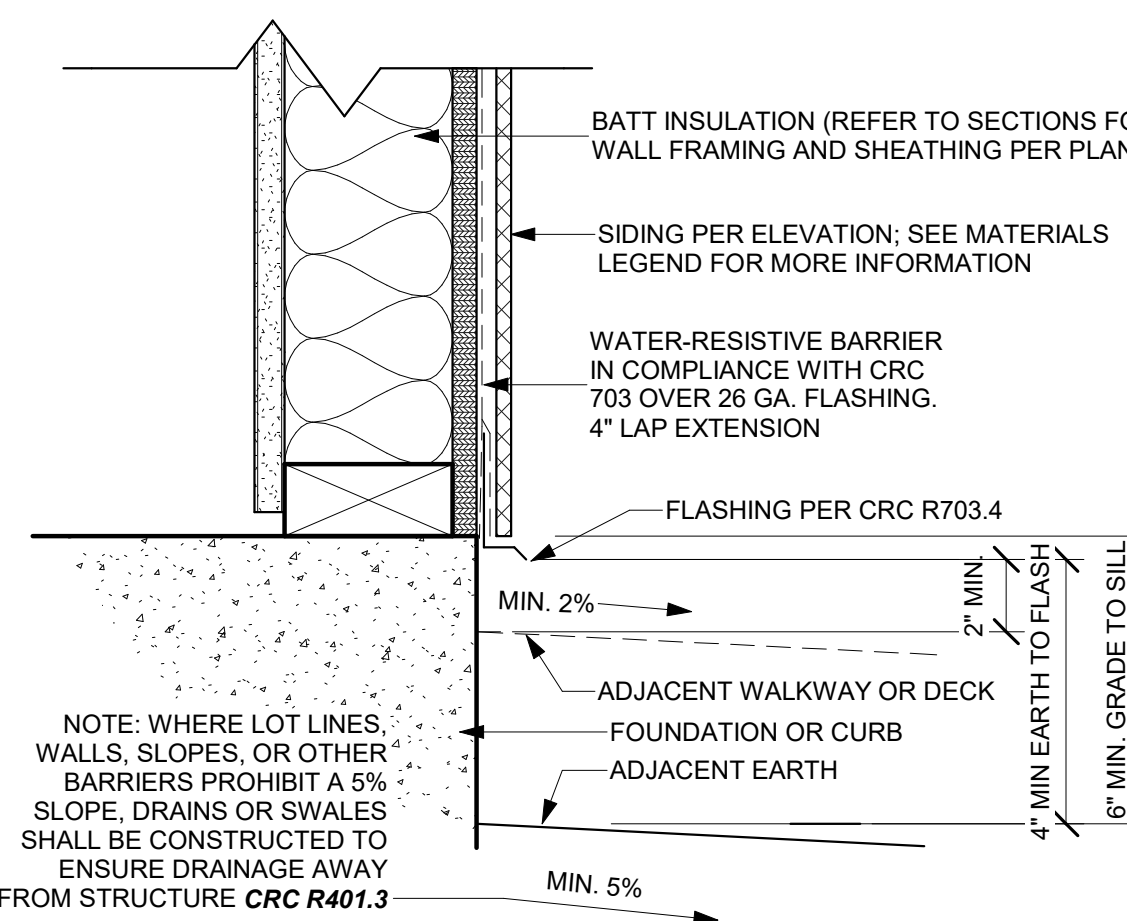


**R311.3.1 FLOOR ELEVATIONS AT THE REQUIRED EGRESS DOORS**  
LANDINGS OR FINISHED FLOORS AT THE REQUIRED EGRESS DOOR SHALL BE NOT MORE THAN 1 1/2 INCHES LOWER THAN THE TOP OF THE THRESHOLD. THE LANDING OR FLOOR ON THE EXTERIOR SIDE SHALL BE NOT MORE THAN 7 3/4 INCHES BELOW THE TOP OF THE THRESHOLD PROVIDED THAT THE DOOR DOES NOT SWING OVER THE LANDING OR FLOOR.

WHERE EXTERIOR LANDINGS OR FLOORS SERVING THE REQUIRED EGRESS DOOR ARE NOT AT GRADE, THEY SHALL BE PROVIDED WITH ACCESS TO GRADE BY MEANS OF A RAMP IN ACCORDANCE WITH **CRC R311.8** OR A STAIRWAY IN ACCORDANCE WITH **CRC R311.7**.

#### 22 DOOR-SLIDING GLASS - THRESHOLD

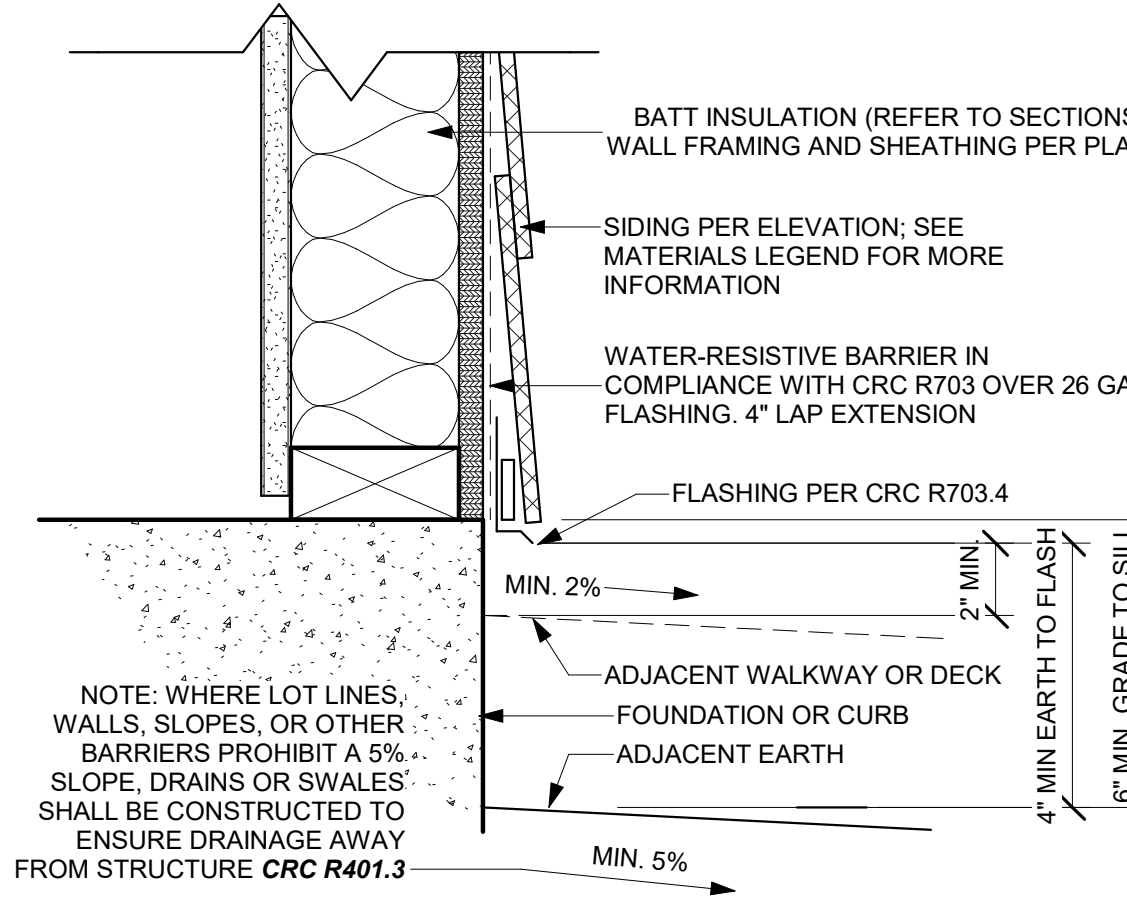
SCALE: 3" = 1'-0"



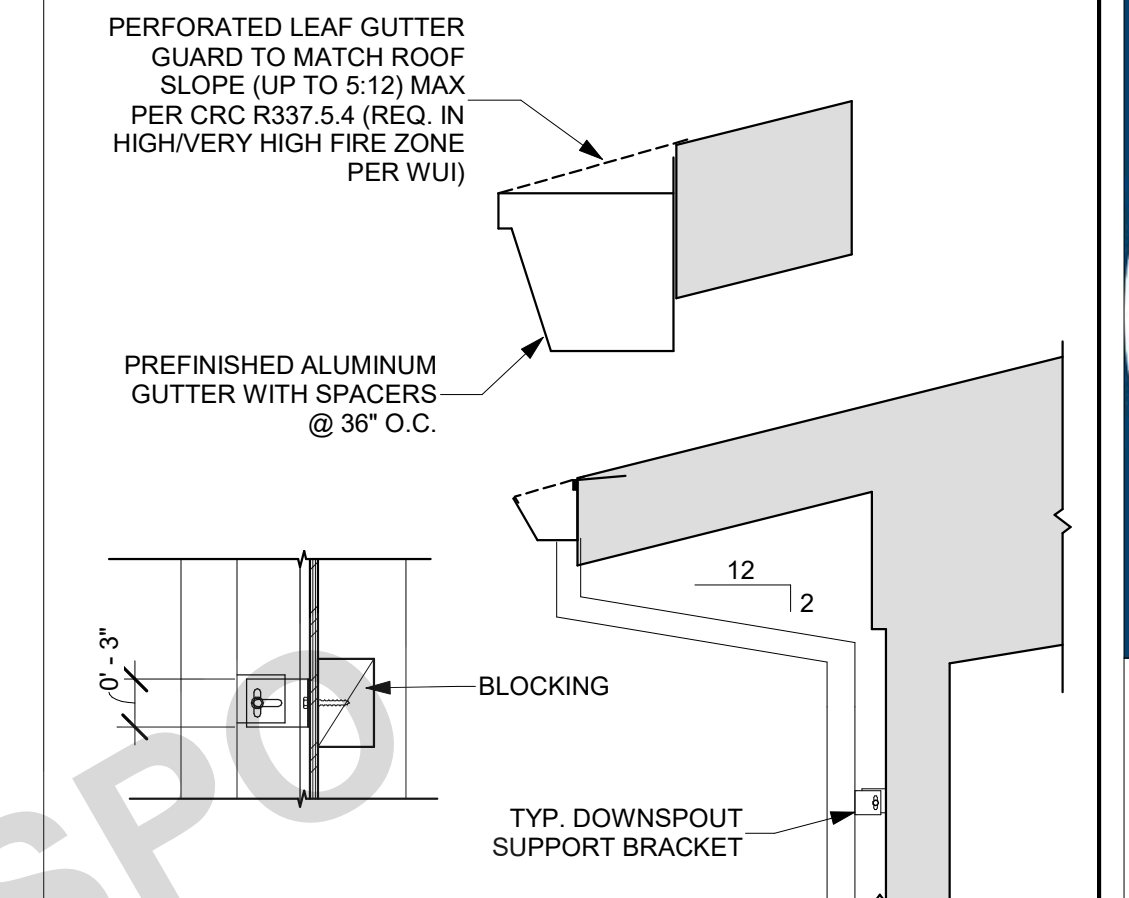
#### OPTION A - NO BASE TRIM

#### 23 TYP. FOUNDATION

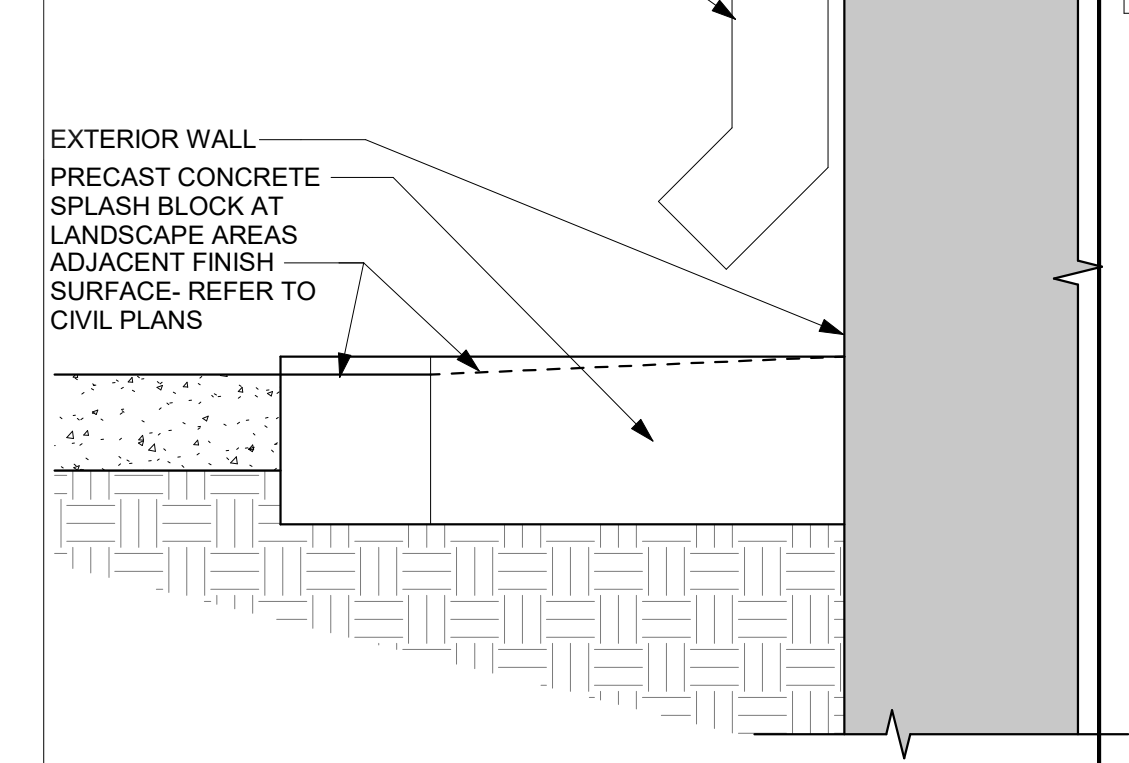
SCALE: 3" = 1'-0"



#### OPTION A - NO BASE TRIM

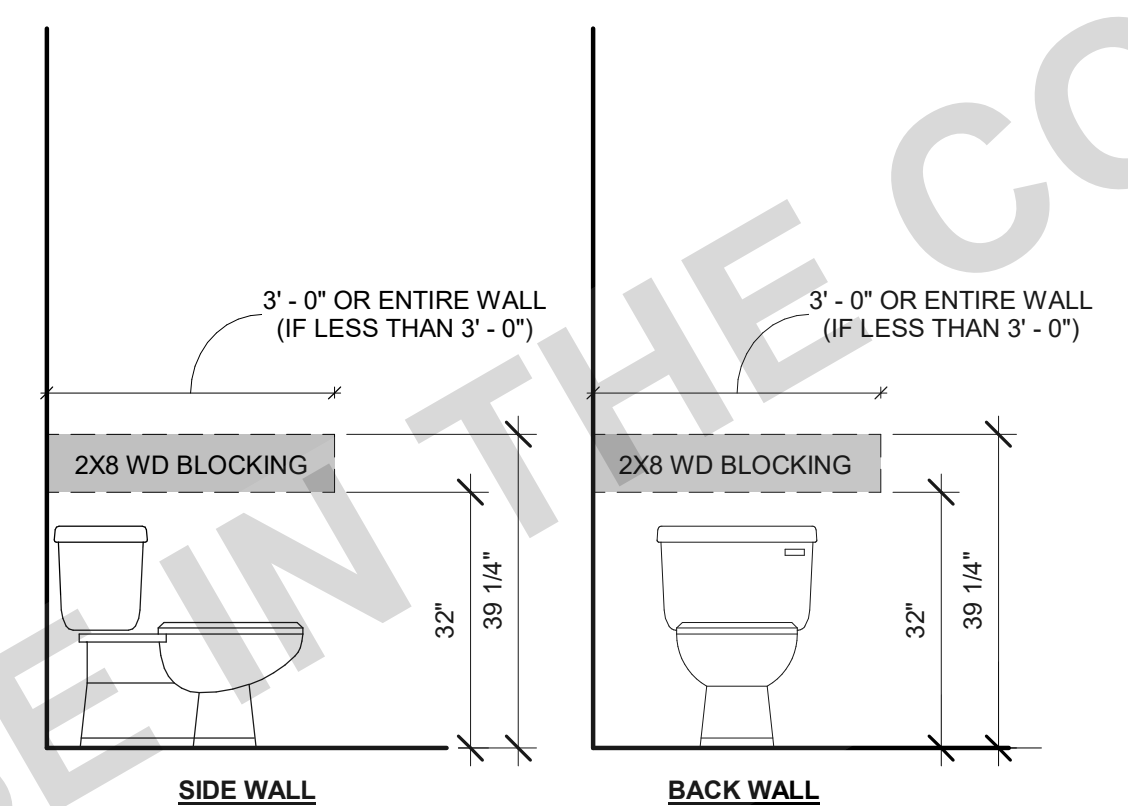


NOTE: SPLASH BLOCK OCCURS AT ANY DOWNSPOUT ENDING AT GRADE LEVEL



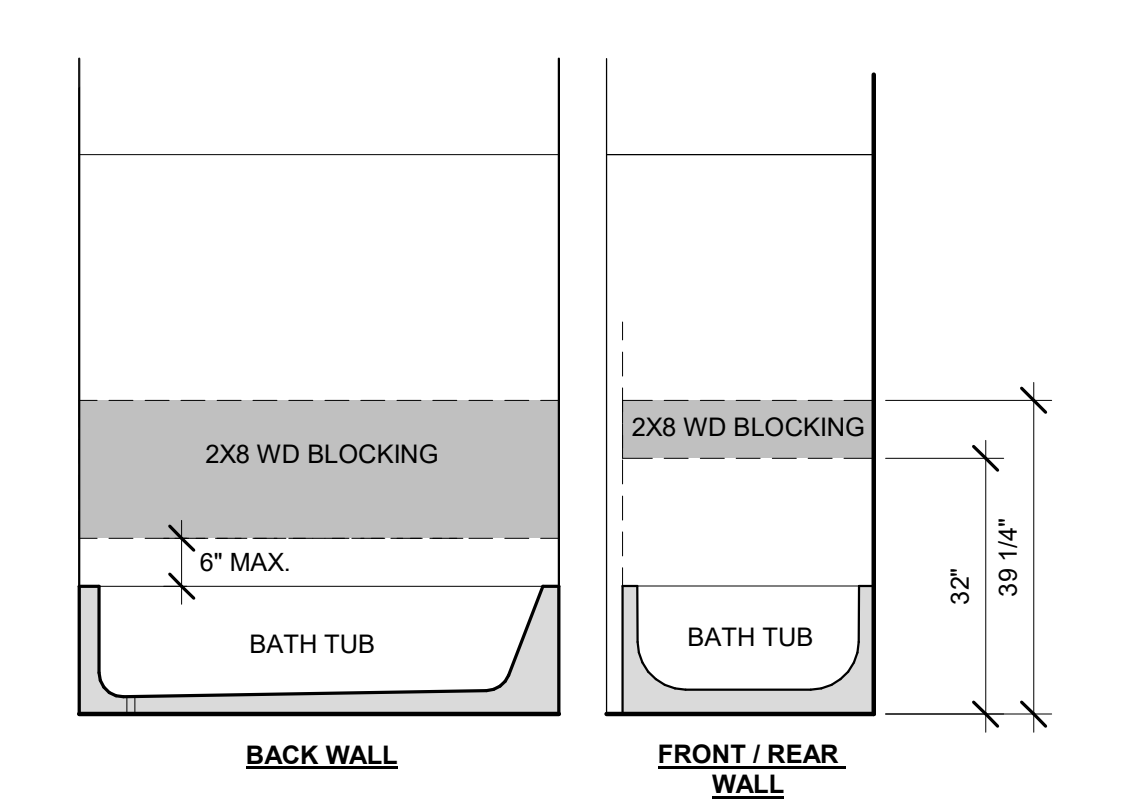
#### 12 TYP. GUTTER TO EXT. DOWNSPOUT

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



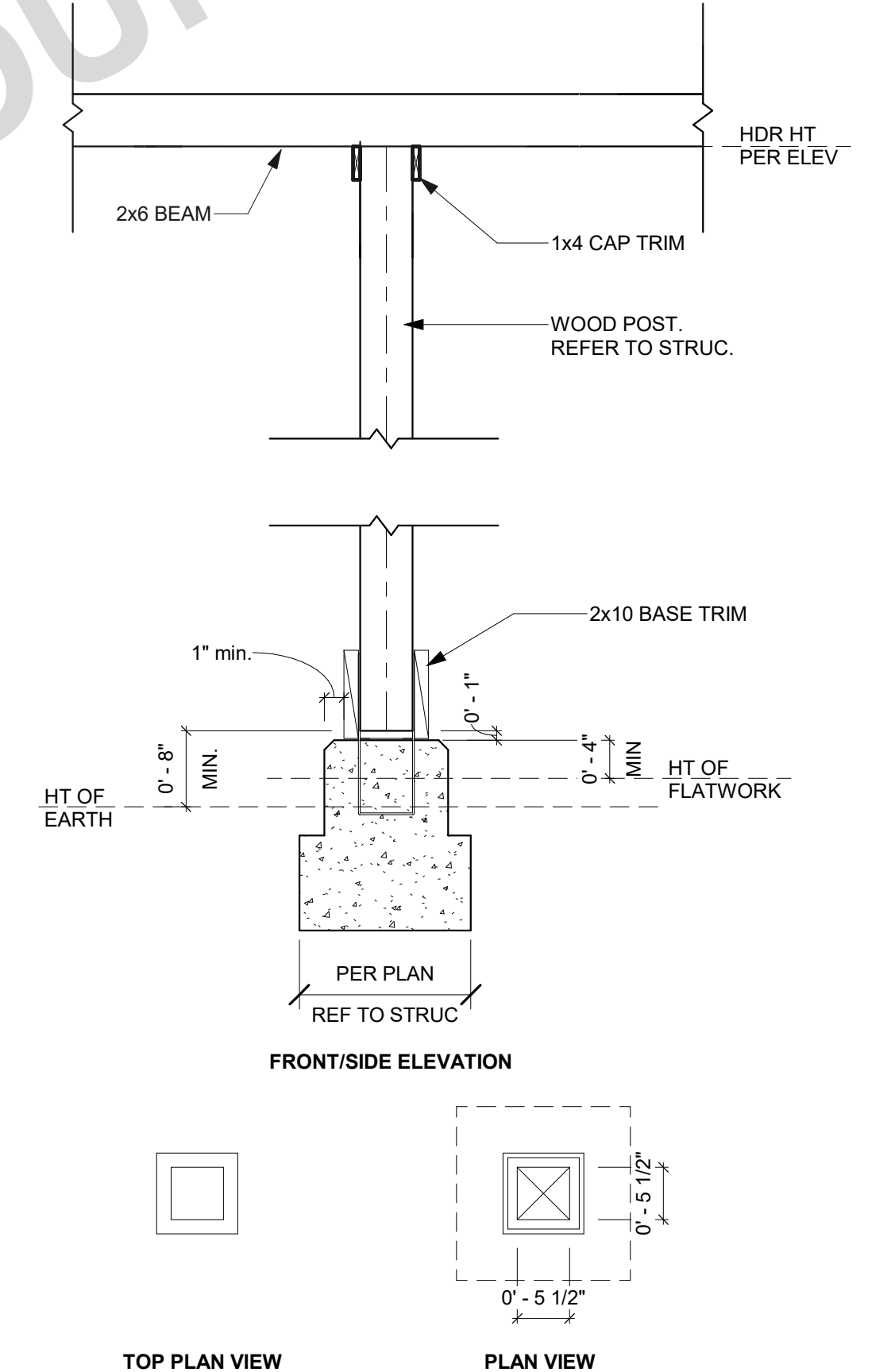
#### 43 TOILET BLOCKING - AGING-IN-PLACE

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



#### 44 TUB BLOCKING - AGING-IN-PLACE

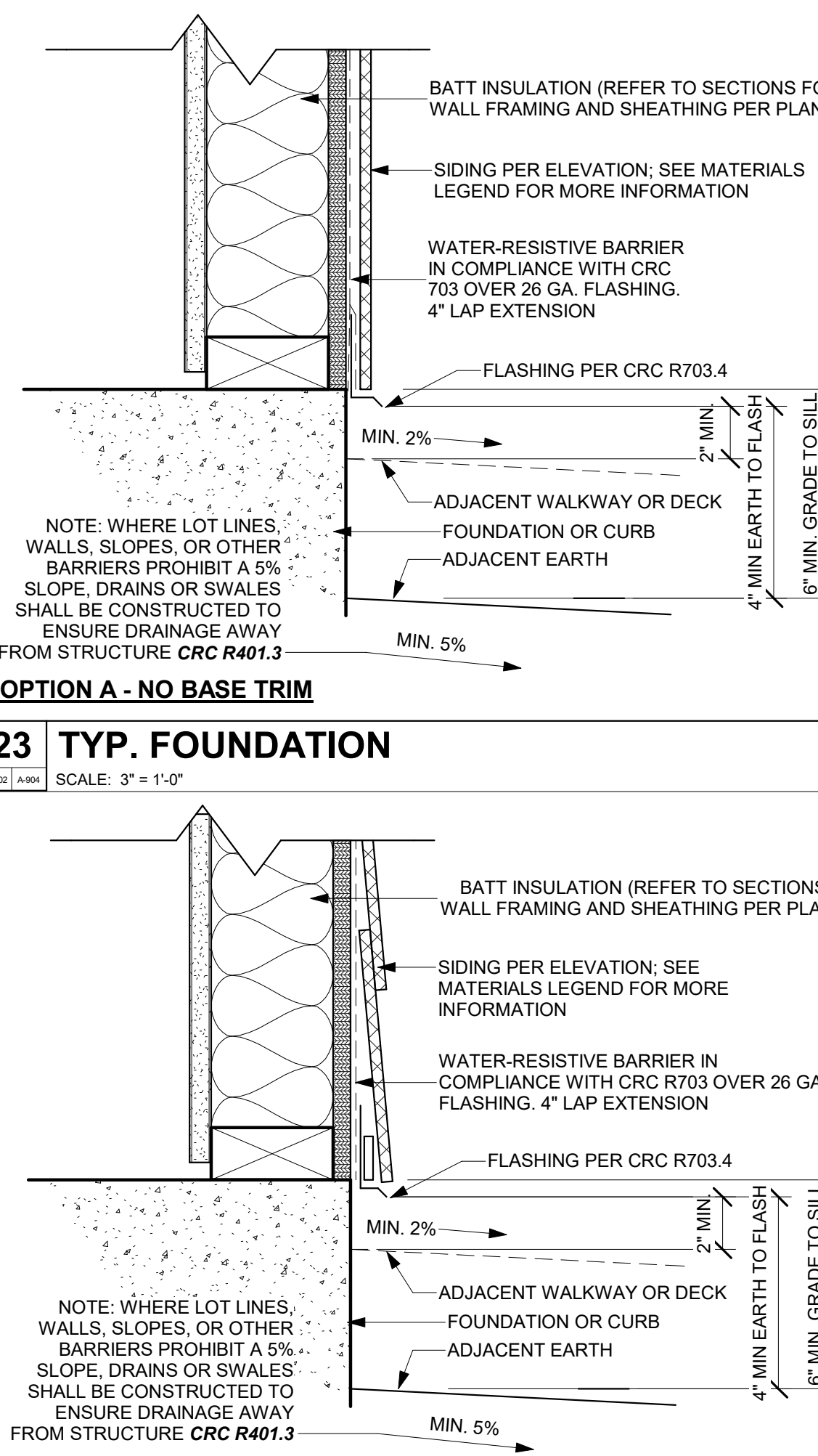
SCALE: 1/2" = 1'-0"



POSTS AND COLUMNS THAT ARE EITHER EXPOSED TO THE WEATHER OR LOCATED IN BASEMENTS OR CELLARS, SUPPORTED BY CONCRETE PIERS OR METAL PEDESTALS, SHALL BE PROJECTED AT LEAST 1 INCH ABOVE THE SLAB OR DECK AND 8 INCHES ABOVE EXPOSED EARTH AND SHALL BE SEPARATED BY AN IMPERVIOUS MOISTURE BARRIER (ALTERNATE, PROVIDE A PRESERVATIVE-TREATED WOOD POST OR COLUMN). 2304.12.2.2 & EXCEPTION 1 CBC

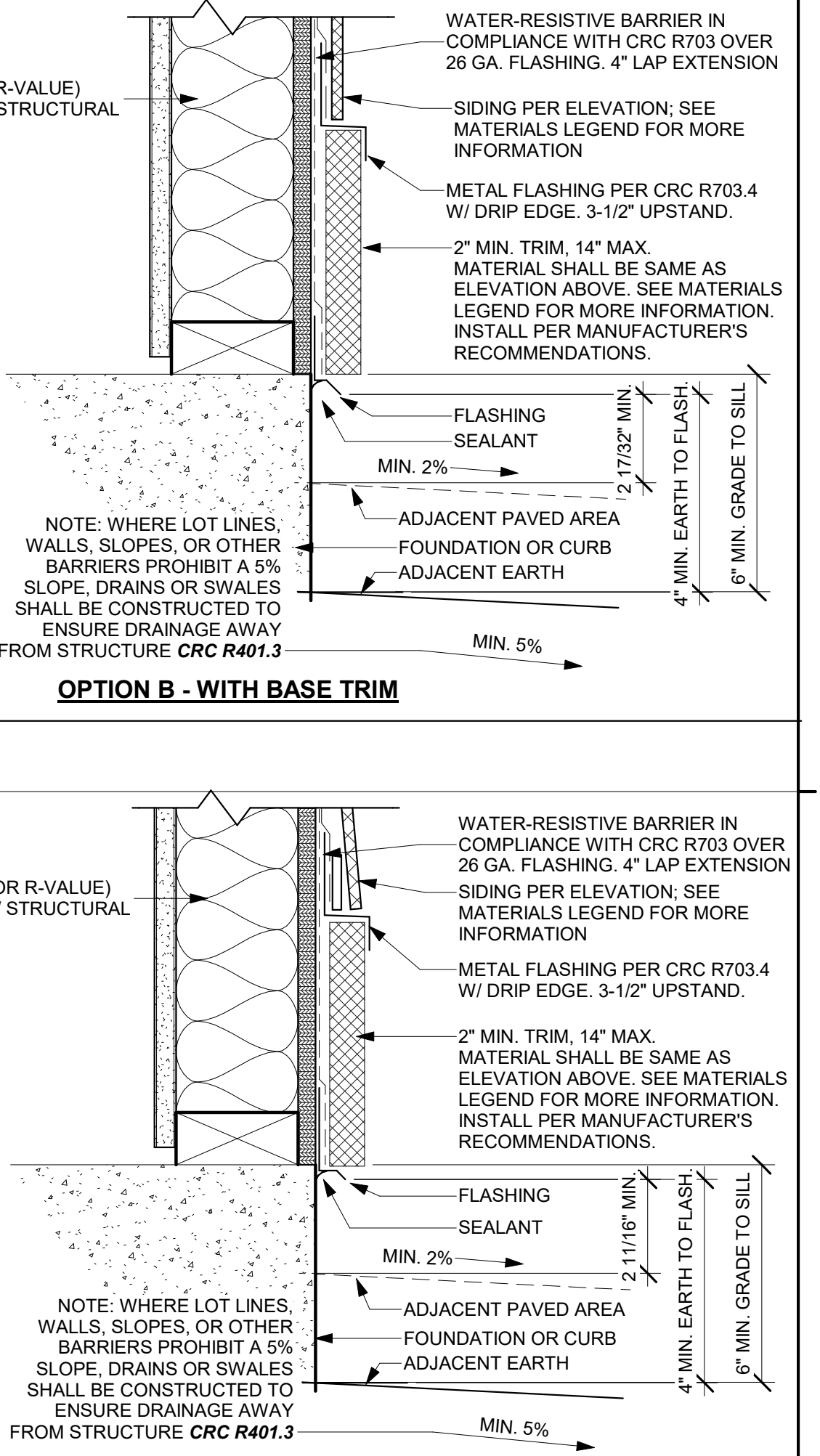
#### 34 TYP. POST

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



#### 24 TYP. FOUNDATION @ HORIZONTAL LAP SIDING

SCALE: 3" = 1'-0"



#### OPTION B - WITH BASE TRIM



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COUNTY OF SAN LUIS OBISPO  
ACCESSORY DWELLING UNIT  
SAN LUIS OBISPO, CA

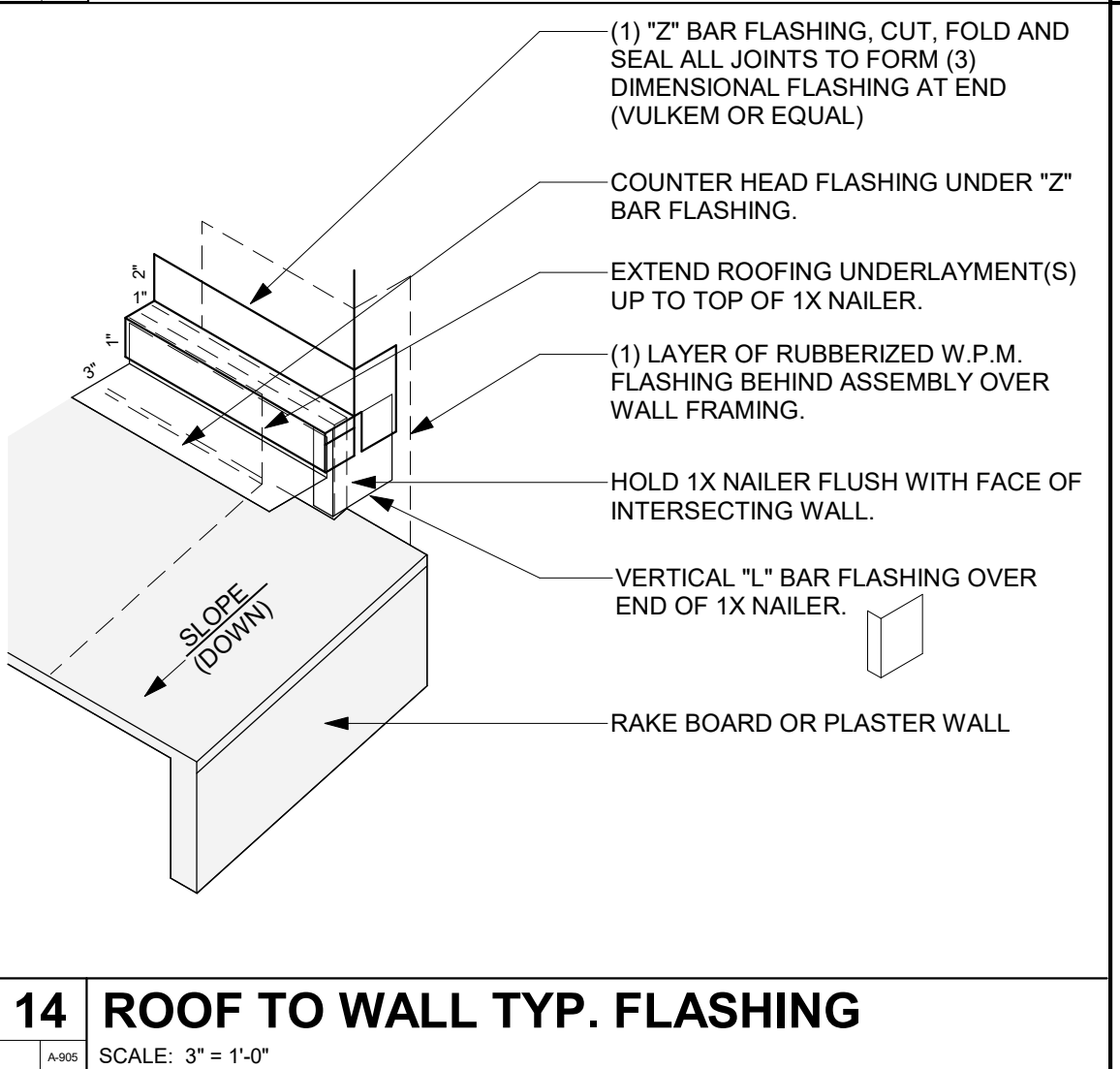
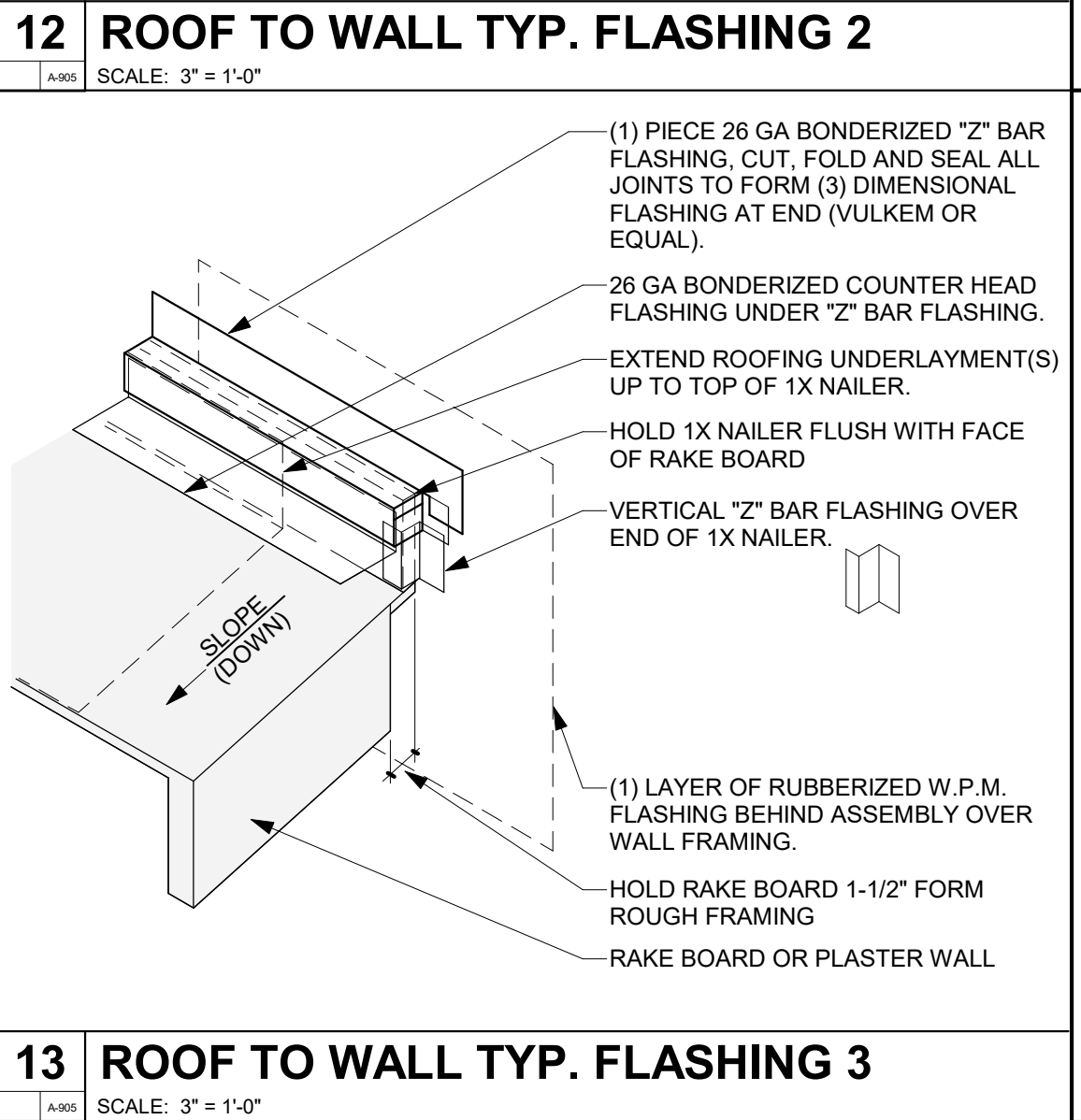
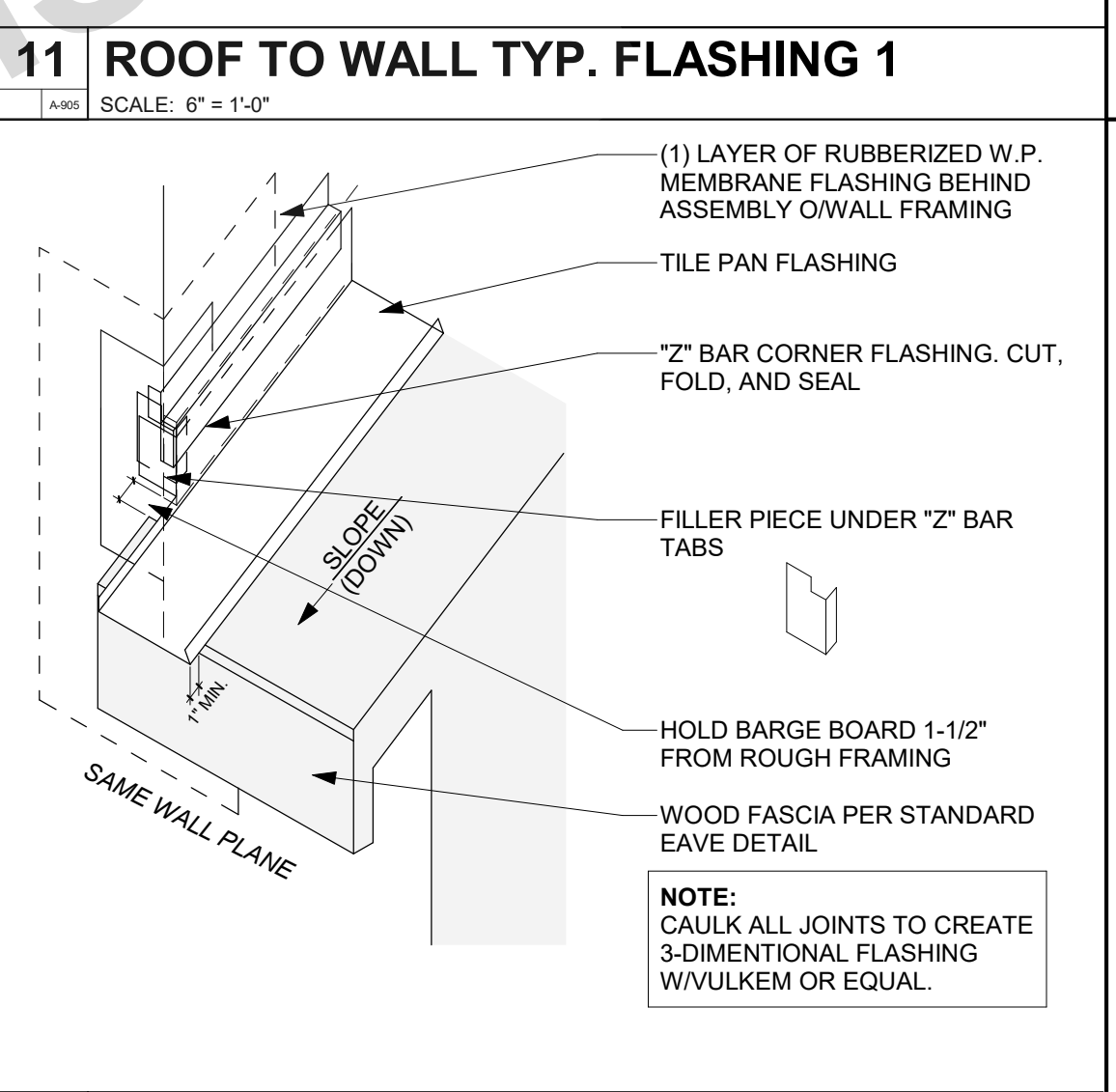
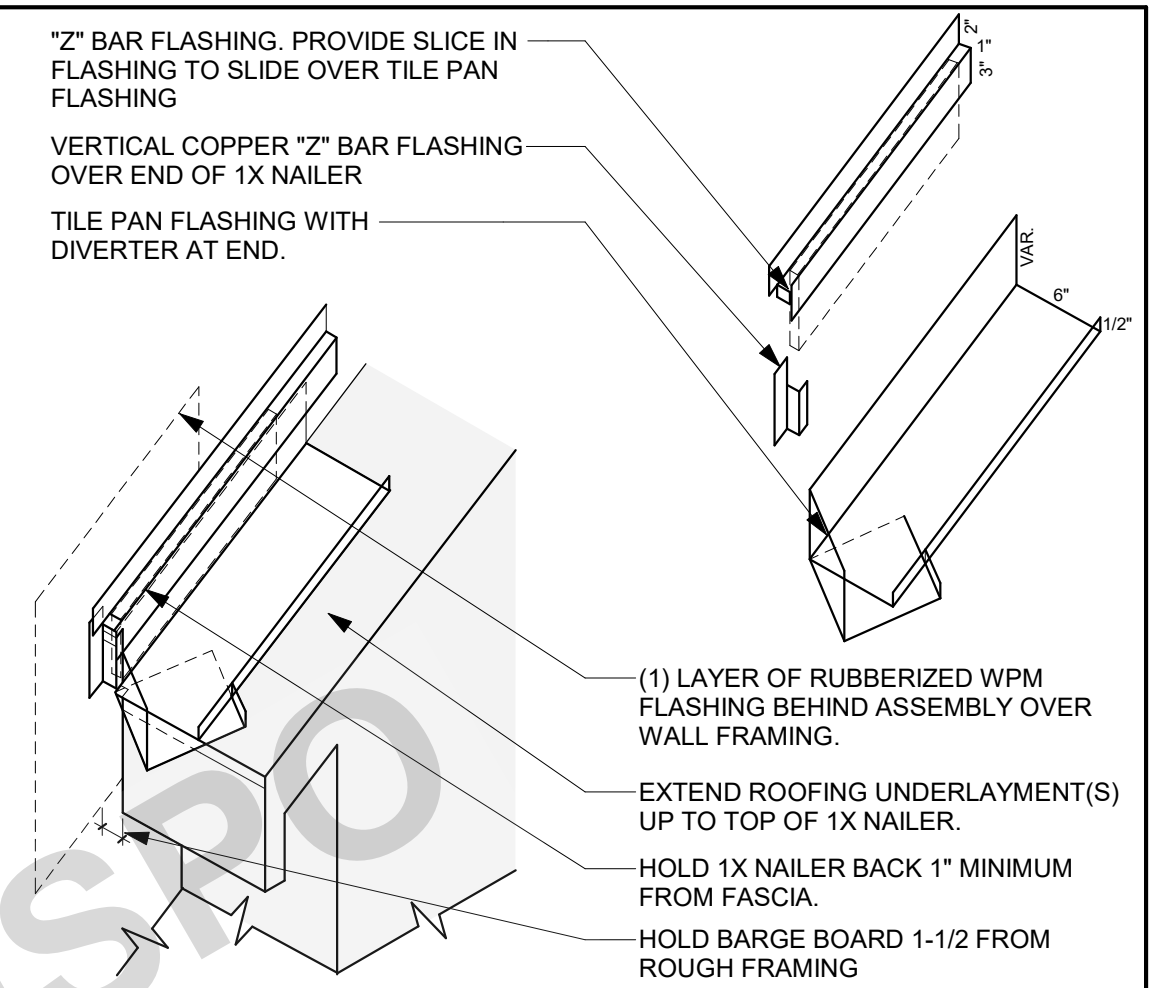
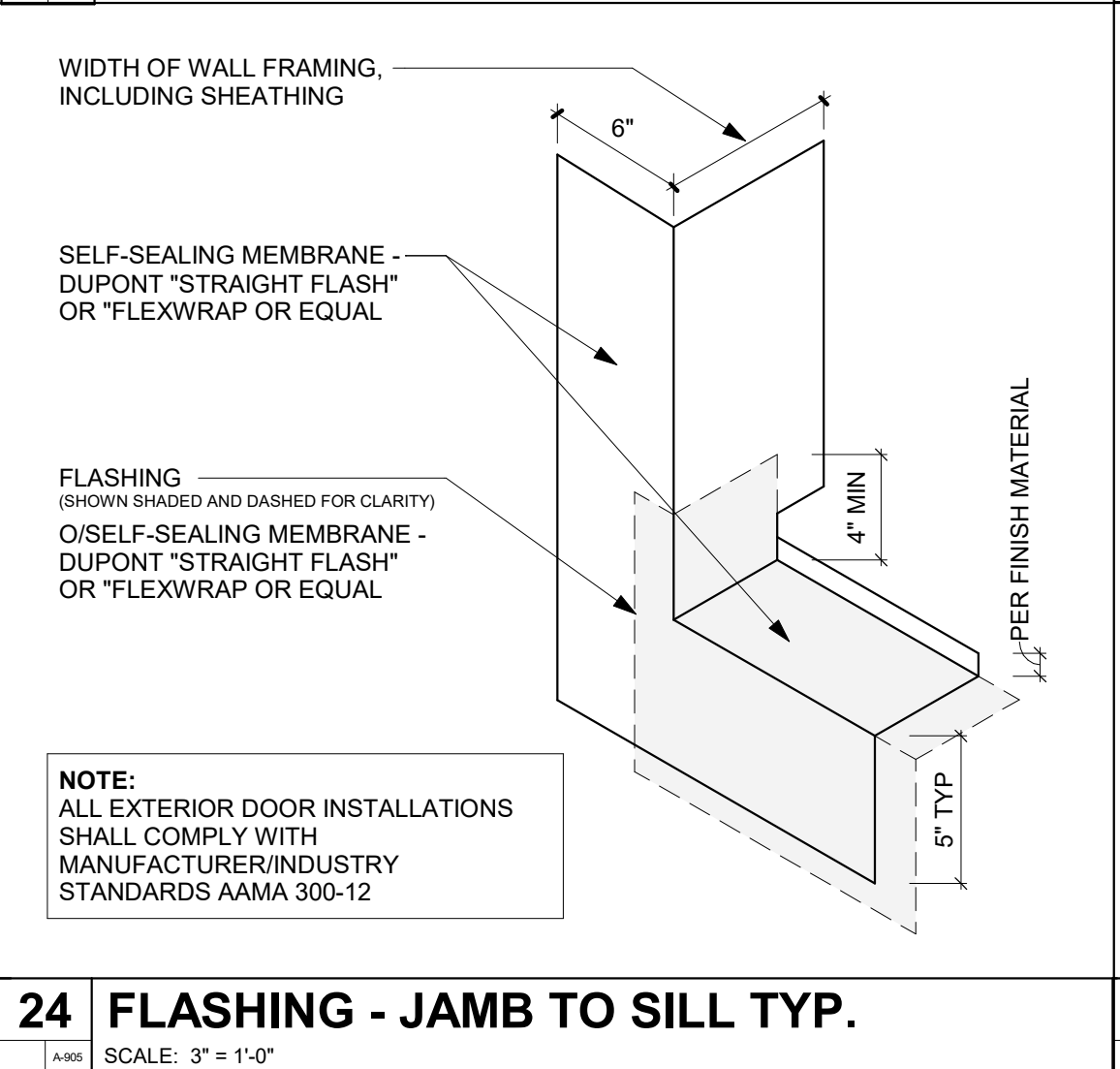
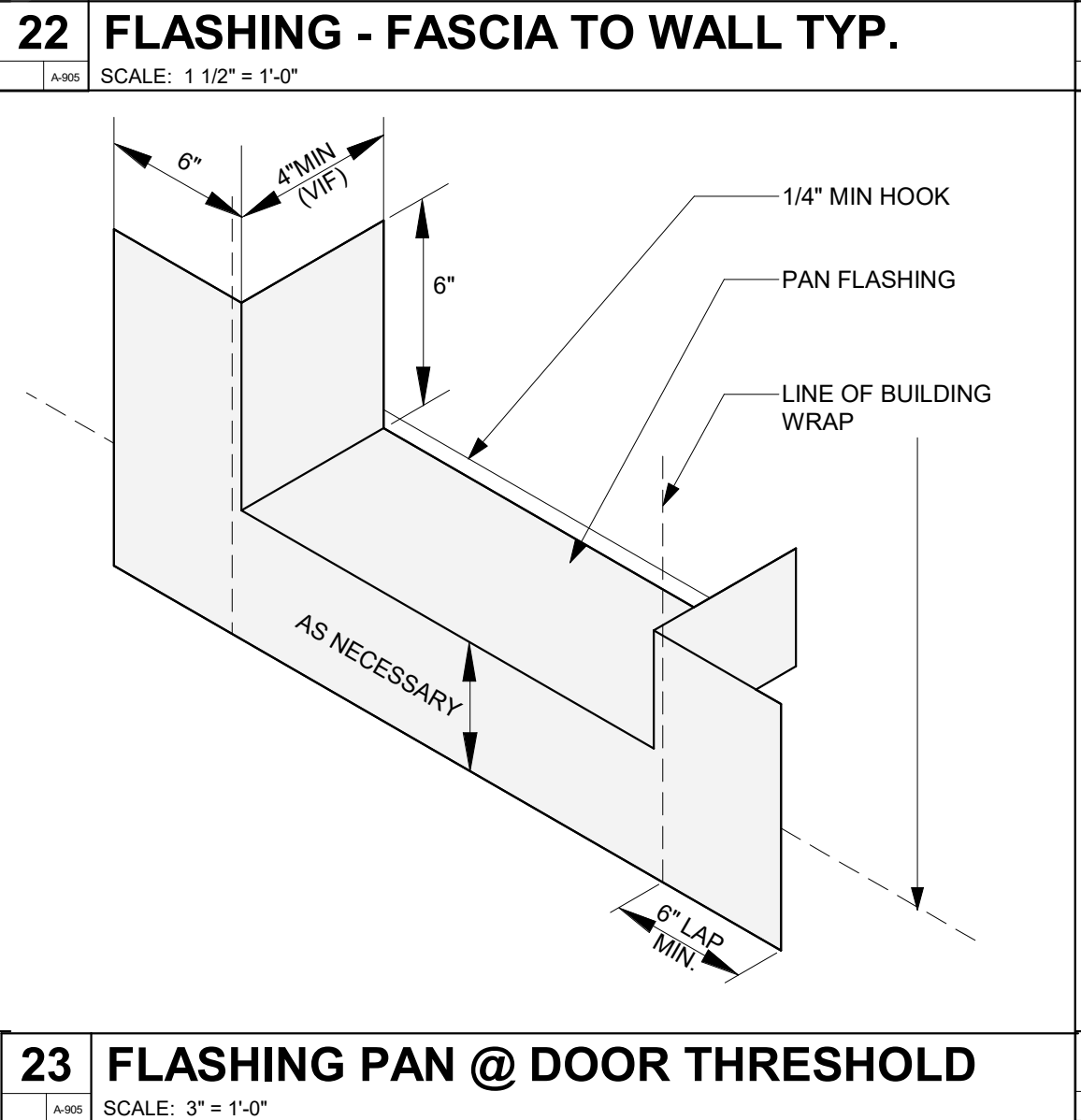
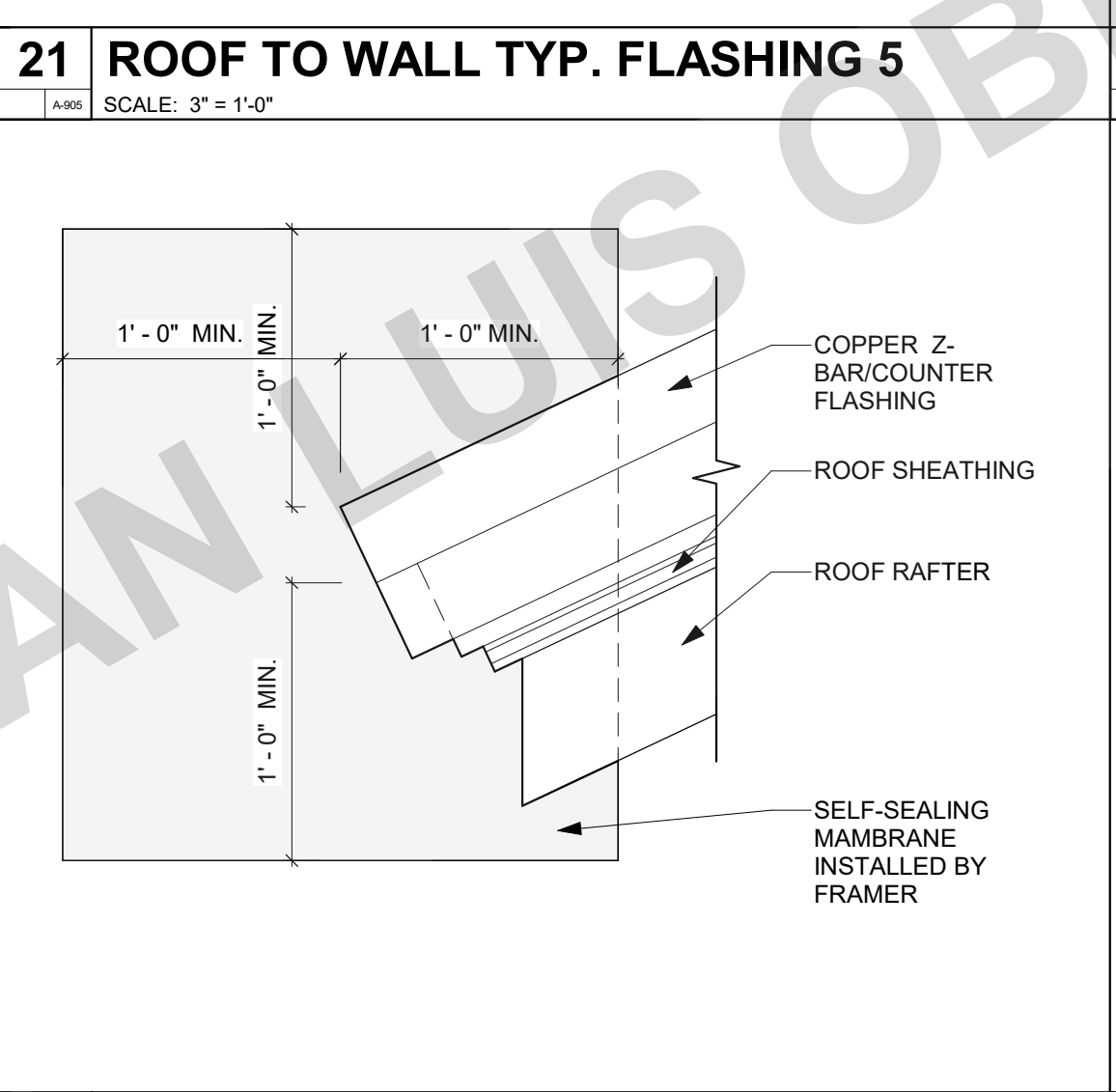
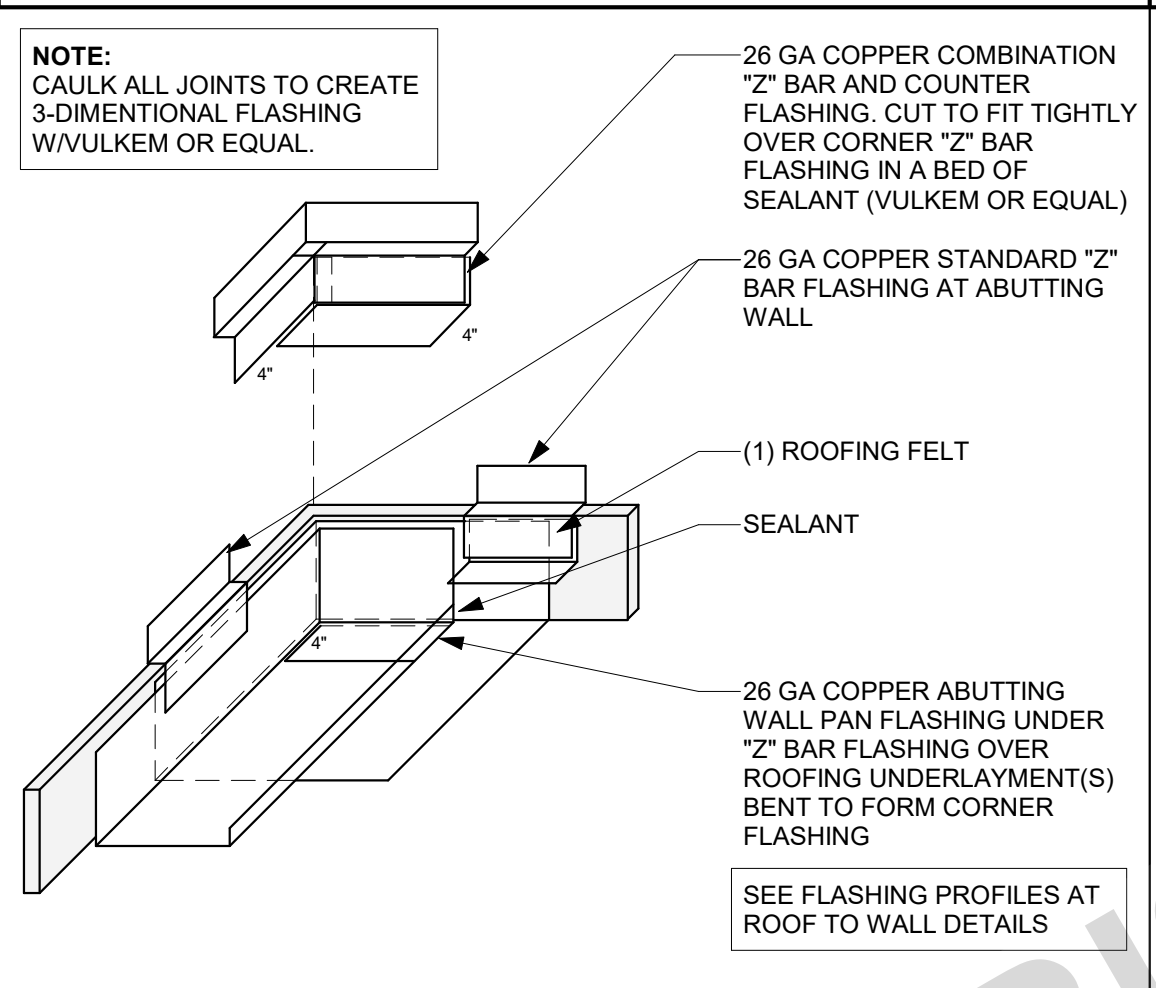
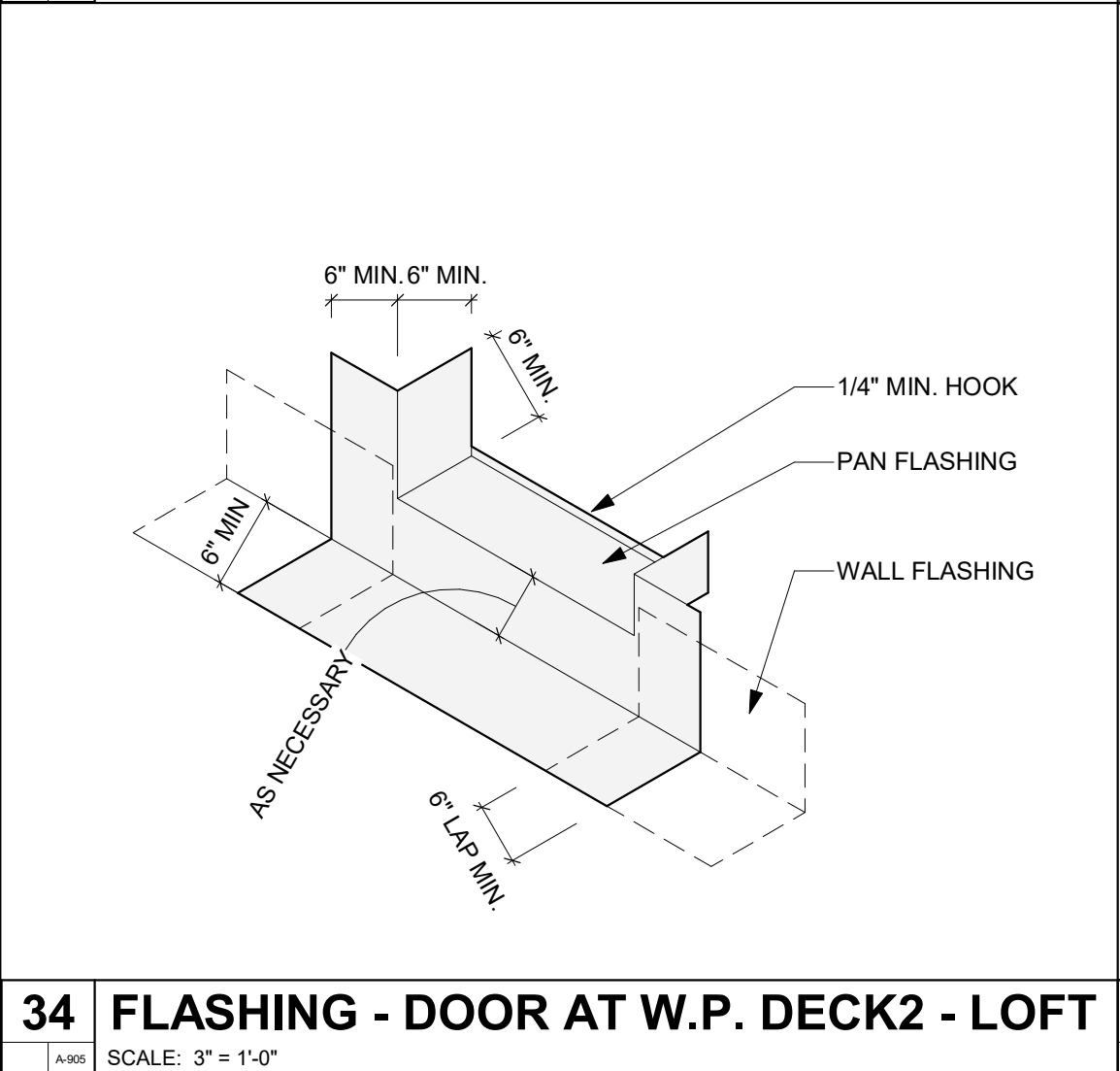
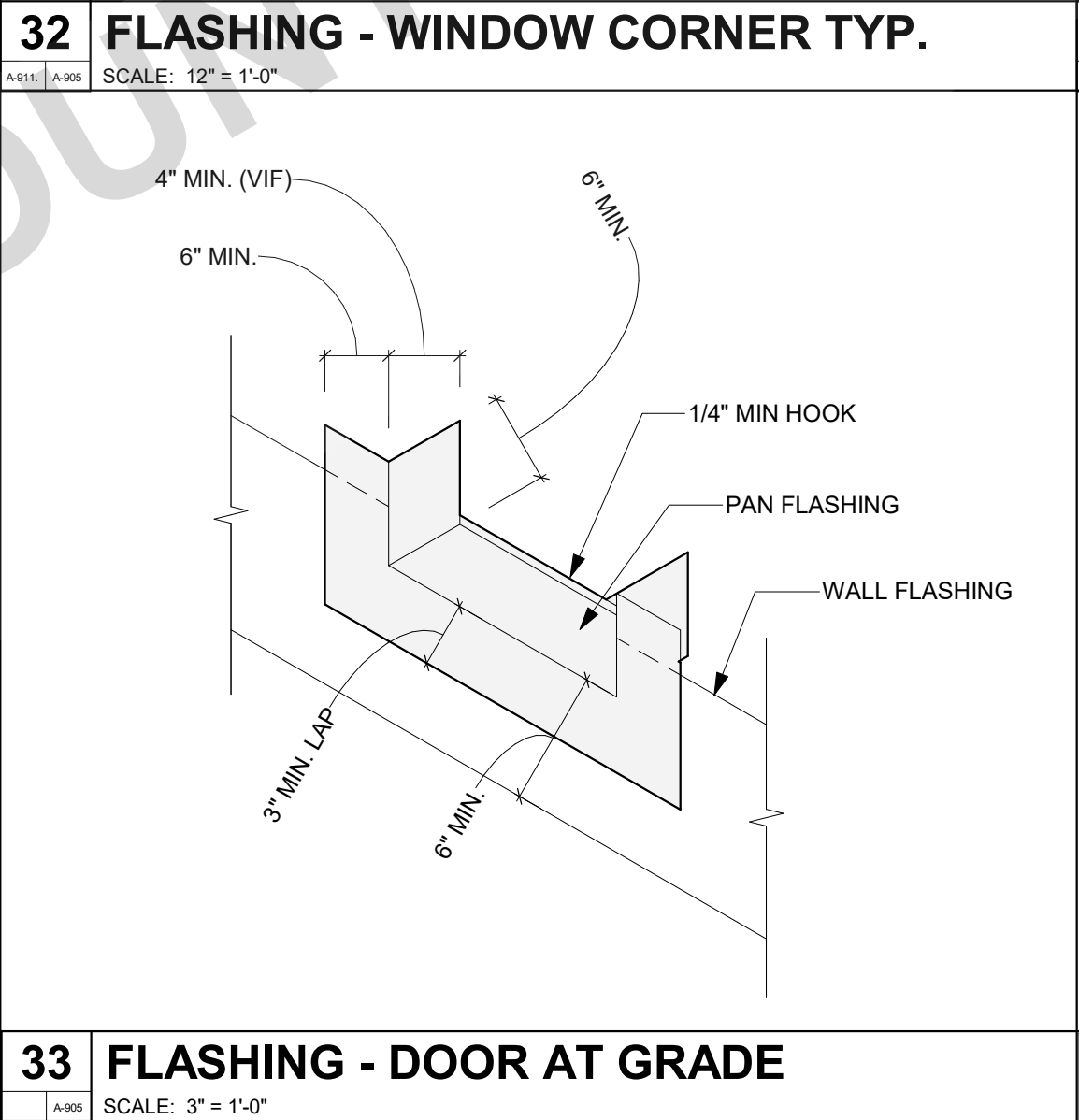
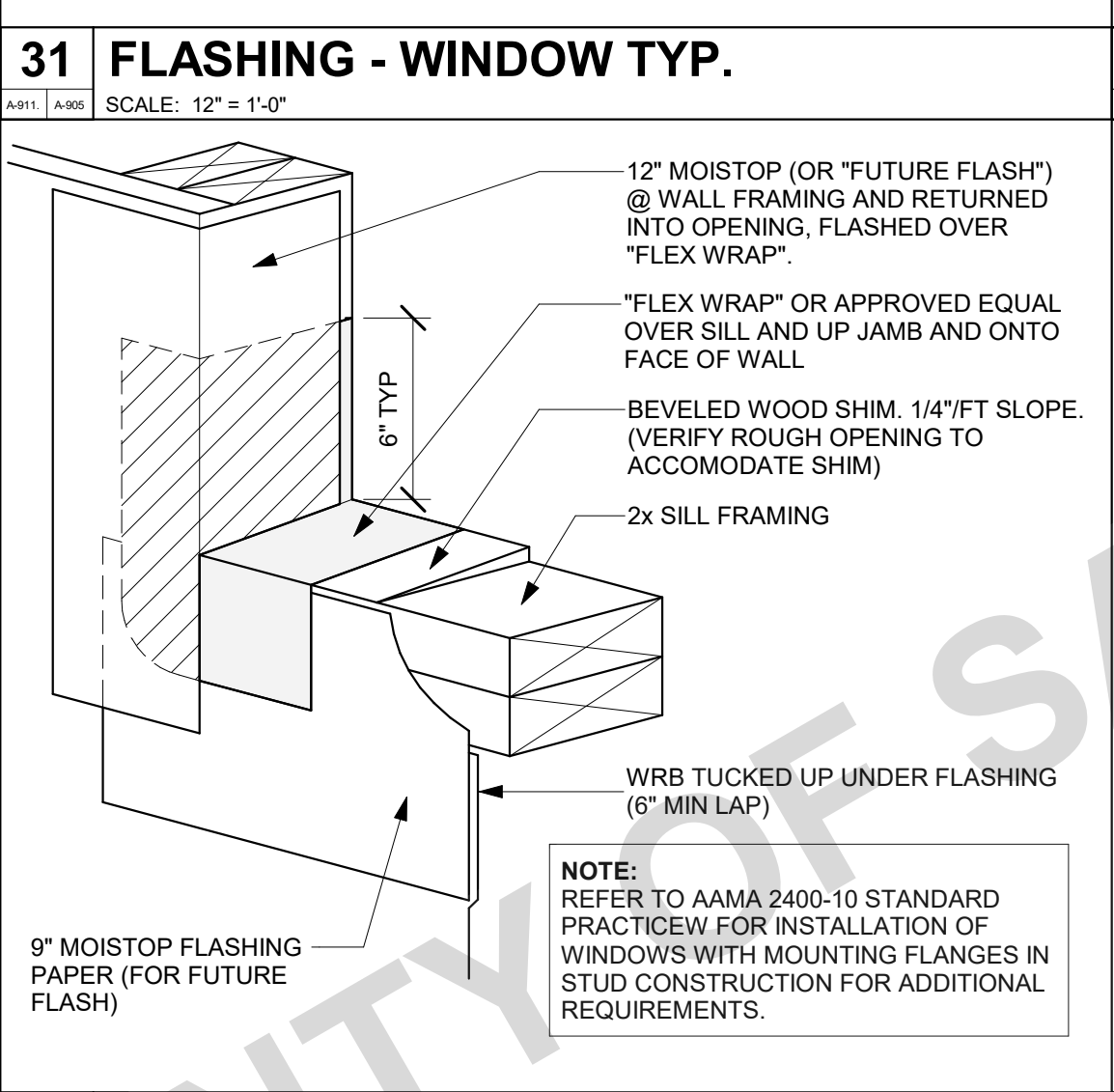
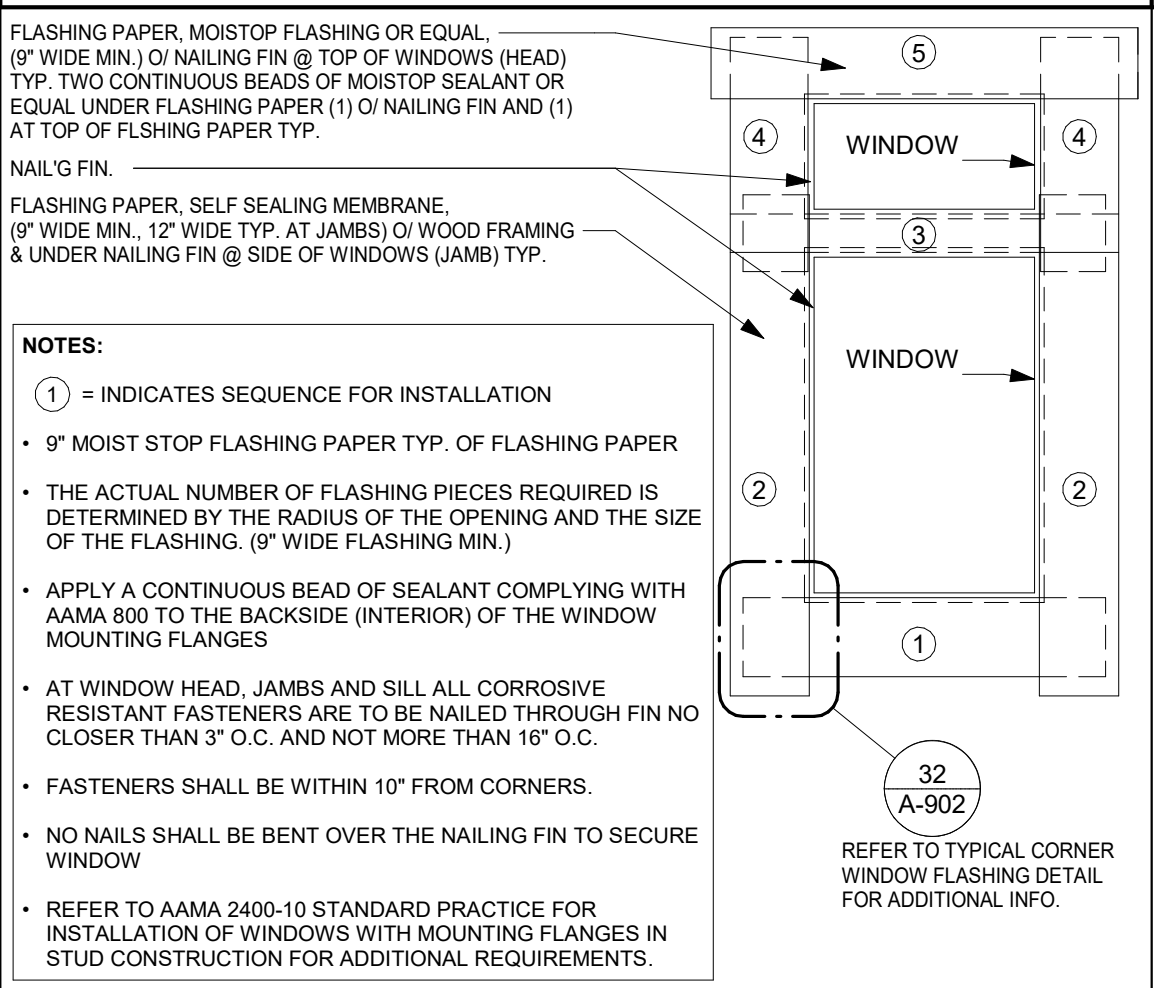
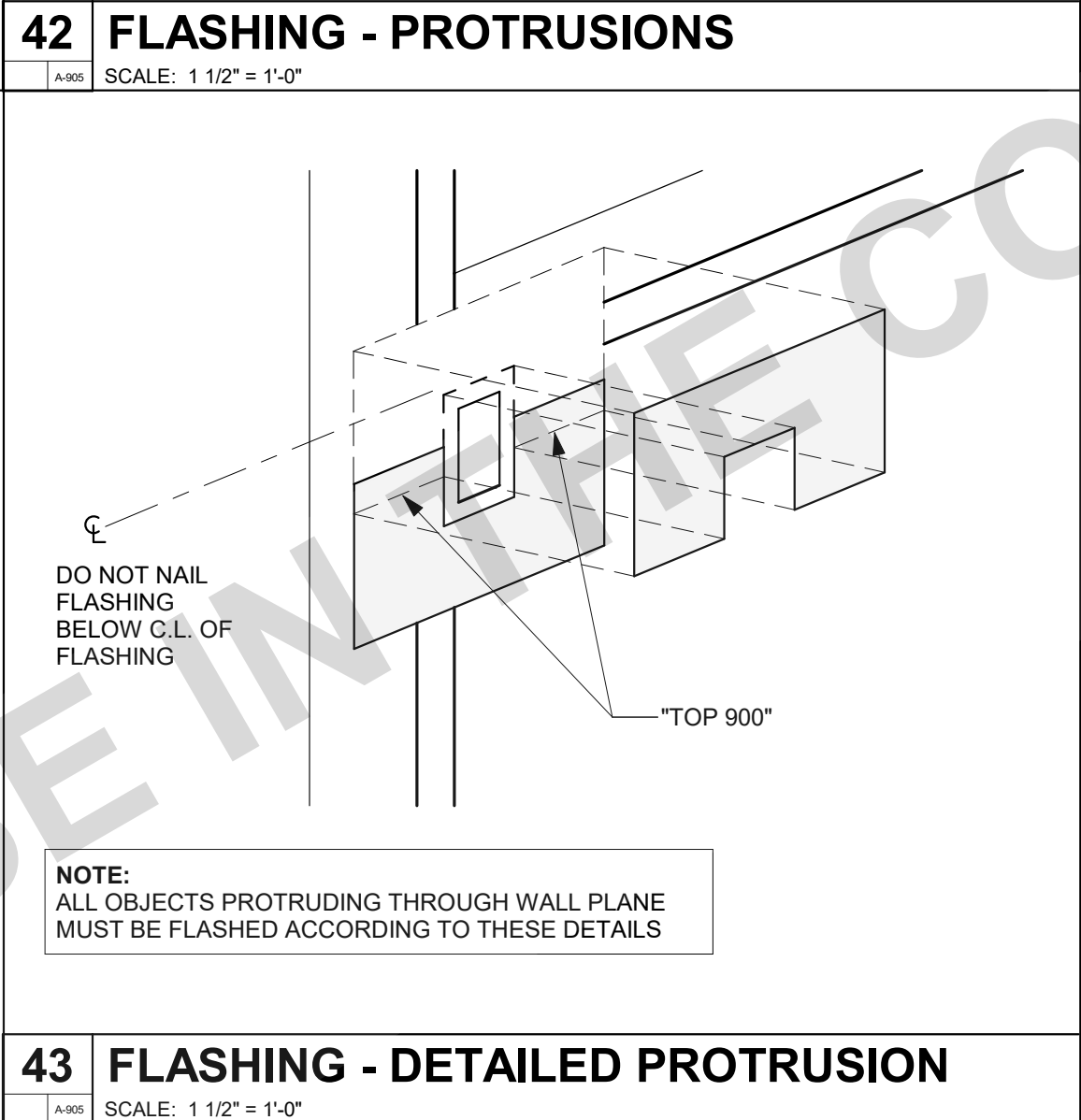
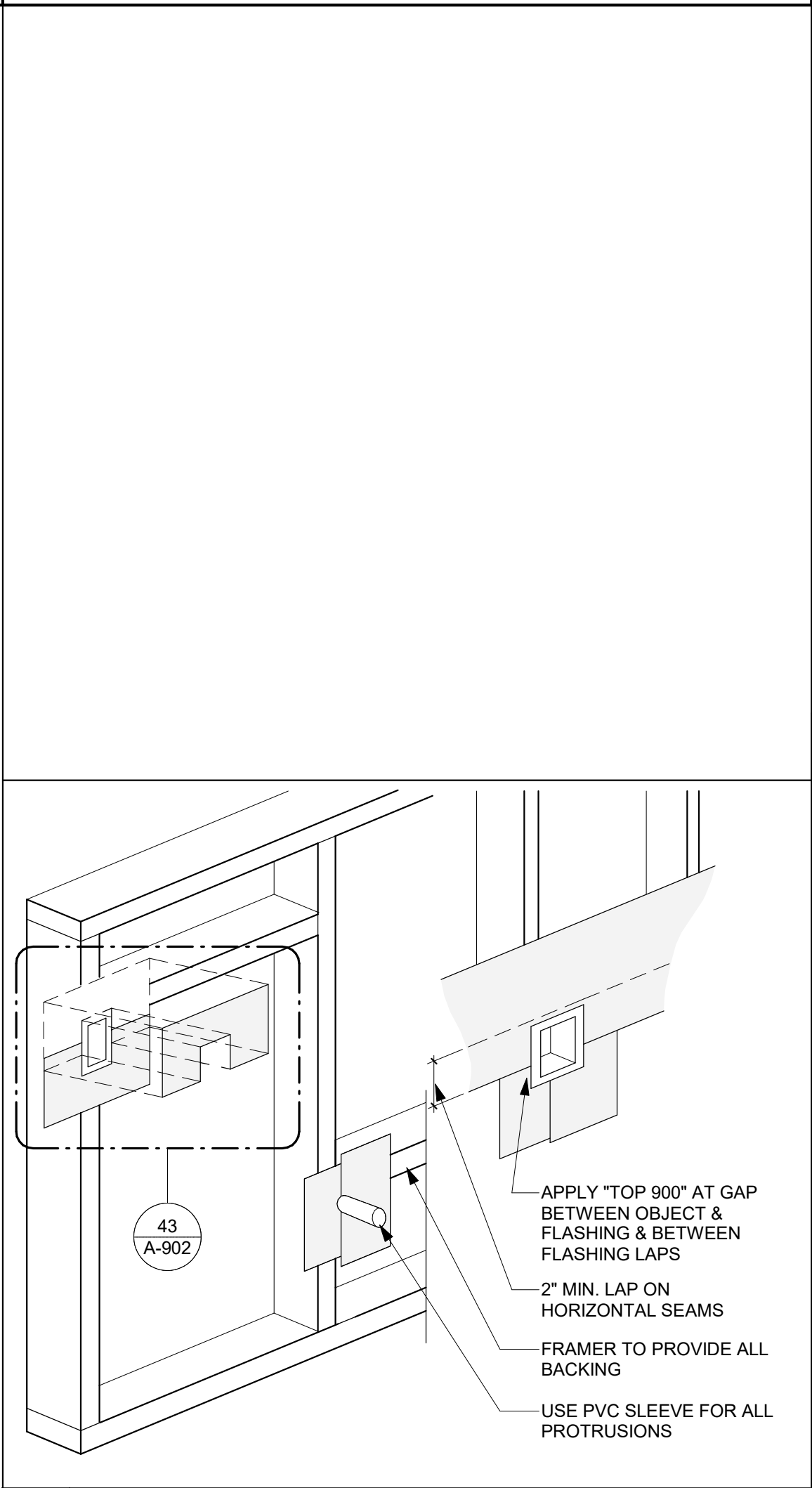
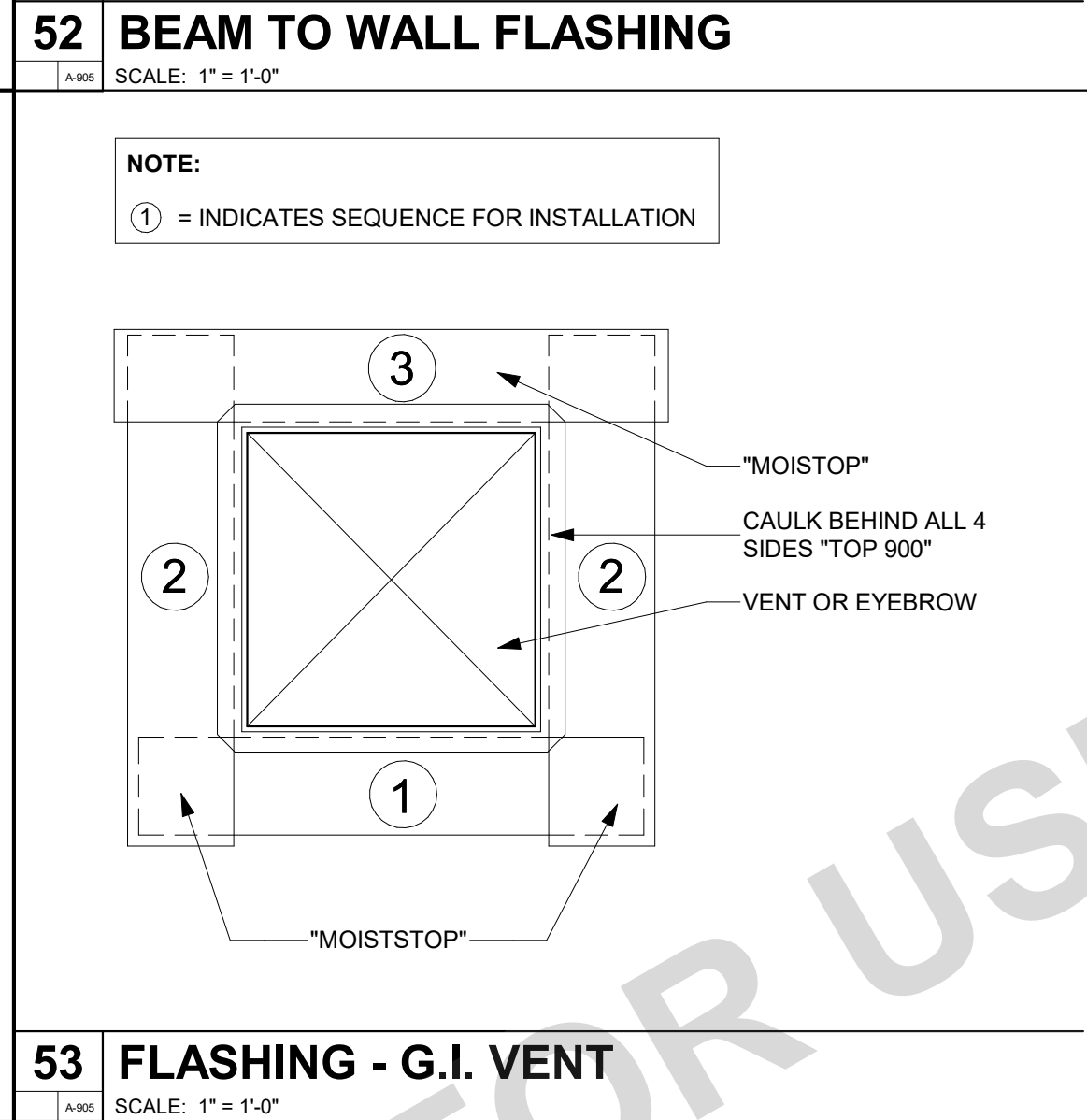
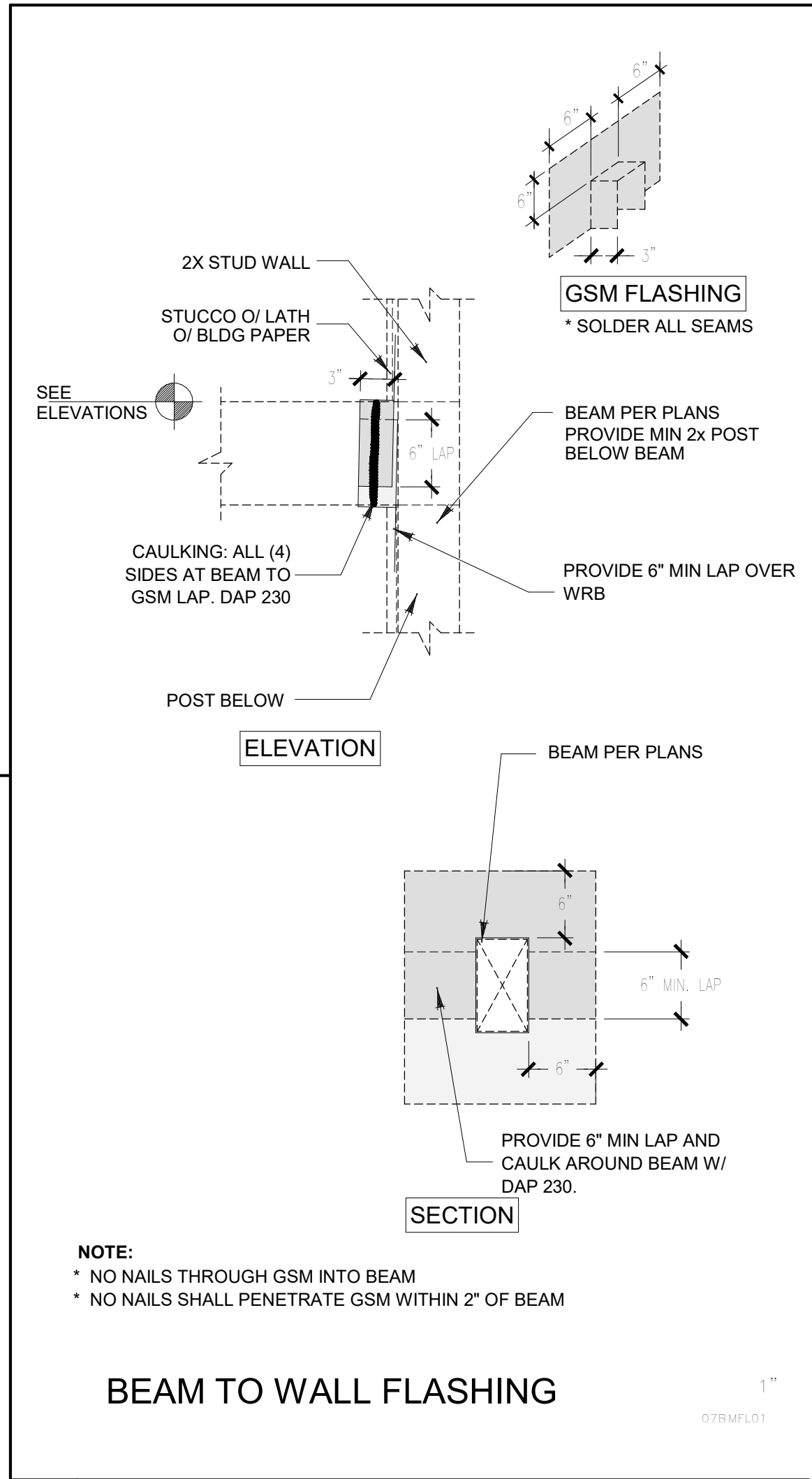
ARCHITECTURAL DETAILS - LOFT

DATE  
11/28/2023  
SHEET

A-904



1/18/2023 10:42:41 AM  
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COUNTY OF SAN LUIS OBISPO

THESE PLANS ARE PROVIDED BY THE COUNTY OF SAN LUIS OBISPO AS PART OF THE PRE-APPROVED ADU PROGRAM AND ARE PUBLIC DOMAIN. THERE CANNOT BE A CHARGE TO PROVIDE THESE PLANS. NO ALTERATIONS TO THESE PLANS ARE ALLOWED. ALL ALTERATIONS MUST BE DONE UNDER A SEPARATE PERMIT ONCE THE BUILDING PERMIT FOR THE ADU HAS BEEN ISSUED AND FINAL INSPECTION COMPLETED. IF YOU DO NOT HAVE THE CONSTRUCTION KNOWLEDGE AND EXPERIENCE TO CONTRUCT THESE PLANS WITHOUT FURTHER DETAILS, IT IS RECOMMENDED YOU HIRE A CONTRACTOR TO DO THE CONSTRUCTION. THE CITY WILL NOT PROVIDE FURTHER INFORMATION OR DETAILS AND BUILDING INSPECTORS WILL NOT PROVIDE STEP BY STEP INSTRUCTIONS IN THE FIELD.

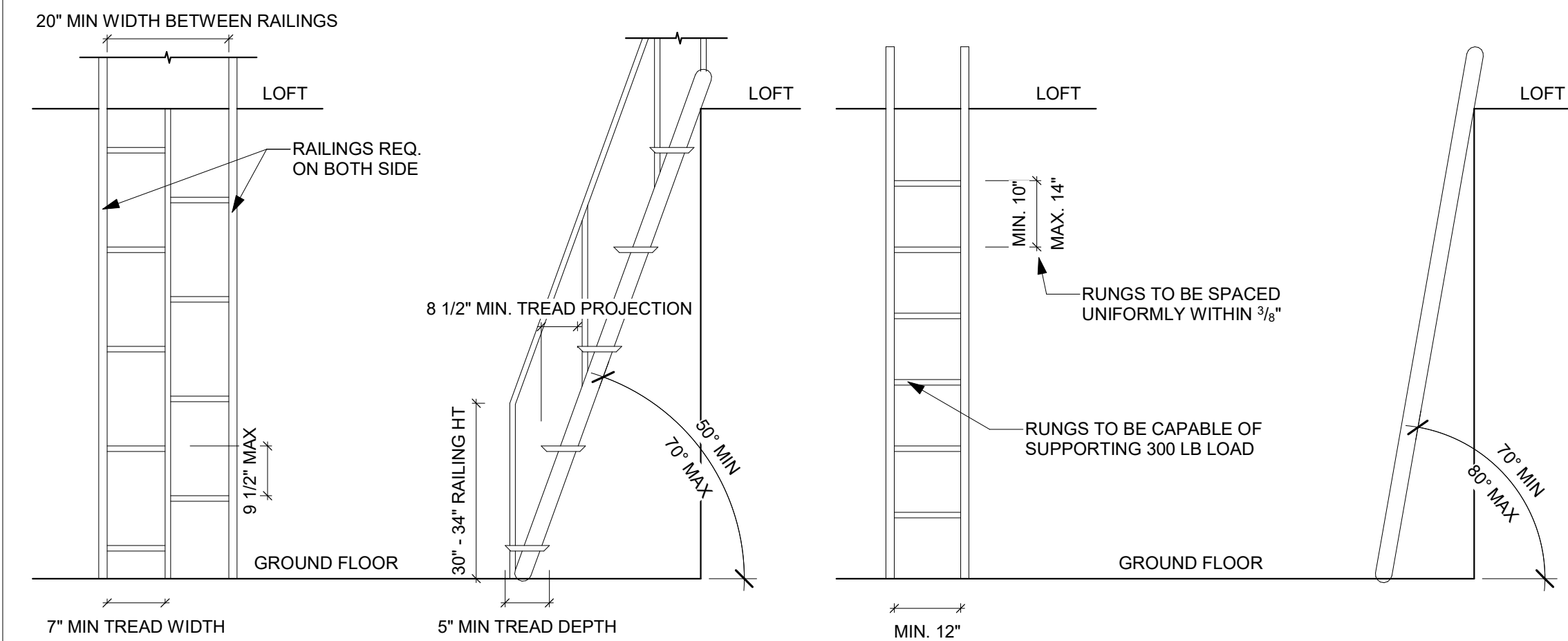
COUNTY OF SAN LUIS OBISPO  
ACCESSORY DWELLING UNIT  
SAN LUIS OBISPO, CA

ARCHITECTURAL DETAILS - LOFT

DATE  
11/28/2023

SHEET  
A-905

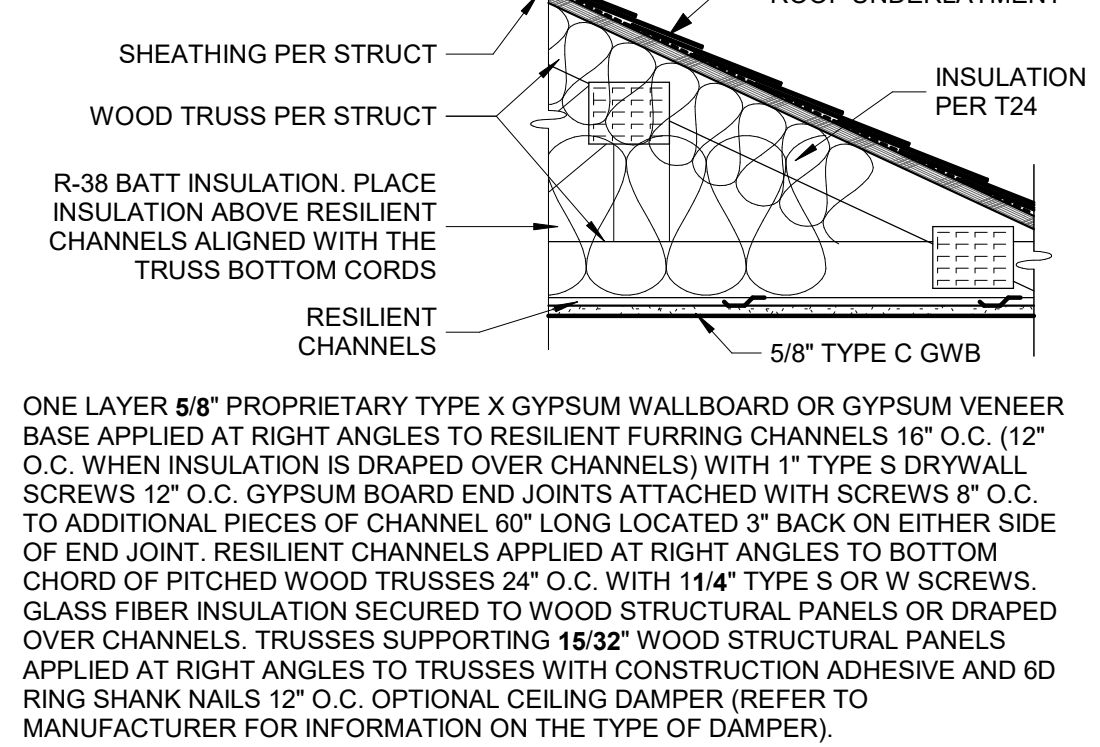




**41 LOFT ACCESS LADDER**

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

**GA FILE NO. RC 2606  
1-HOUR FIRE RATED**



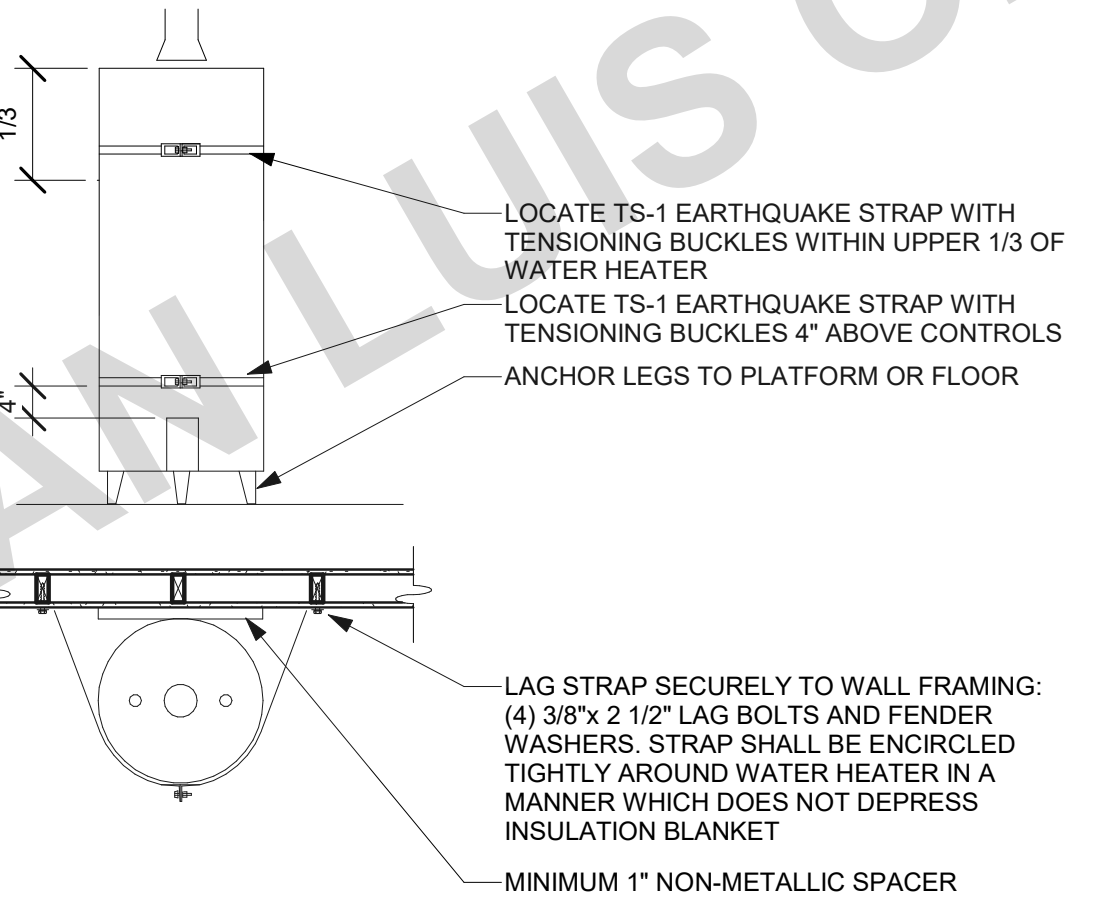
**PROPRIETARY GYPSUM BOARD**  
UNITED STATES GYPSUM COMPANY - 5/8" SHEETROCK® BRAND FIRECODE® C CORE GYPSUM PANELS

**21 ROOF ASSEMBLY (1-HOUR) - LOFT**

SCALE: 1" = 1'-0"

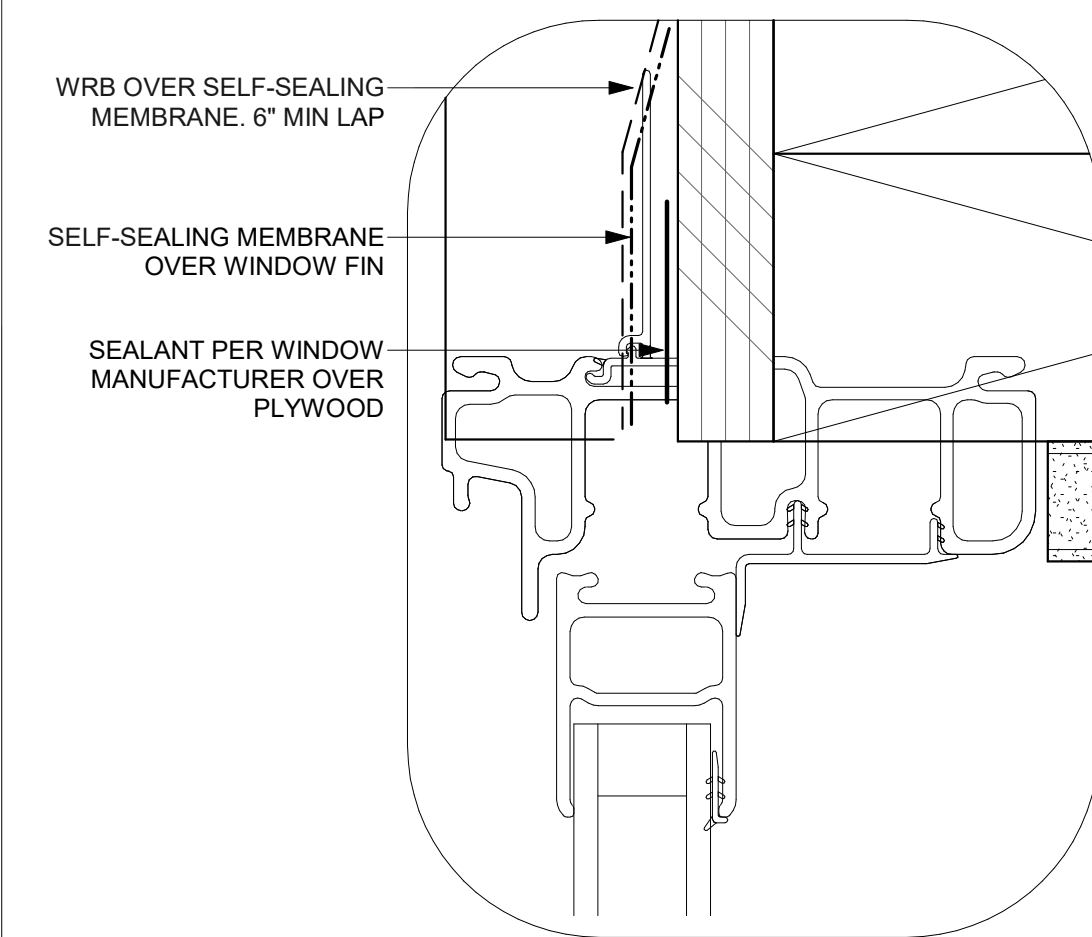
**11 DETAILED HEAD FLASHING**

SCALE: 12" = 1'-0"



**22 WATER HEATER MOUNTING - LOFT**

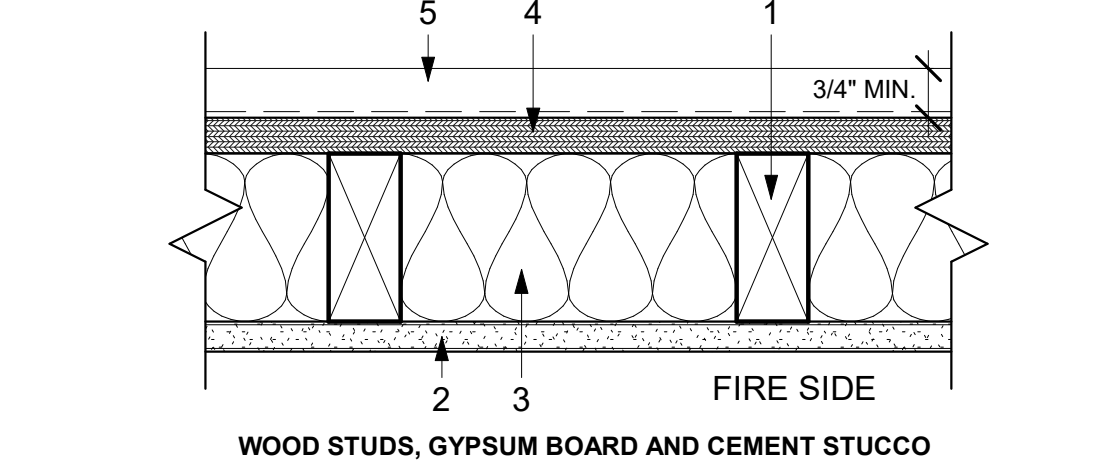
SCALE: 12" = 1'-0"



**12 DETAILED JAMB FLASHING**

SCALE: 12" = 1'-0"

**UL DESIGN NO. U 356**

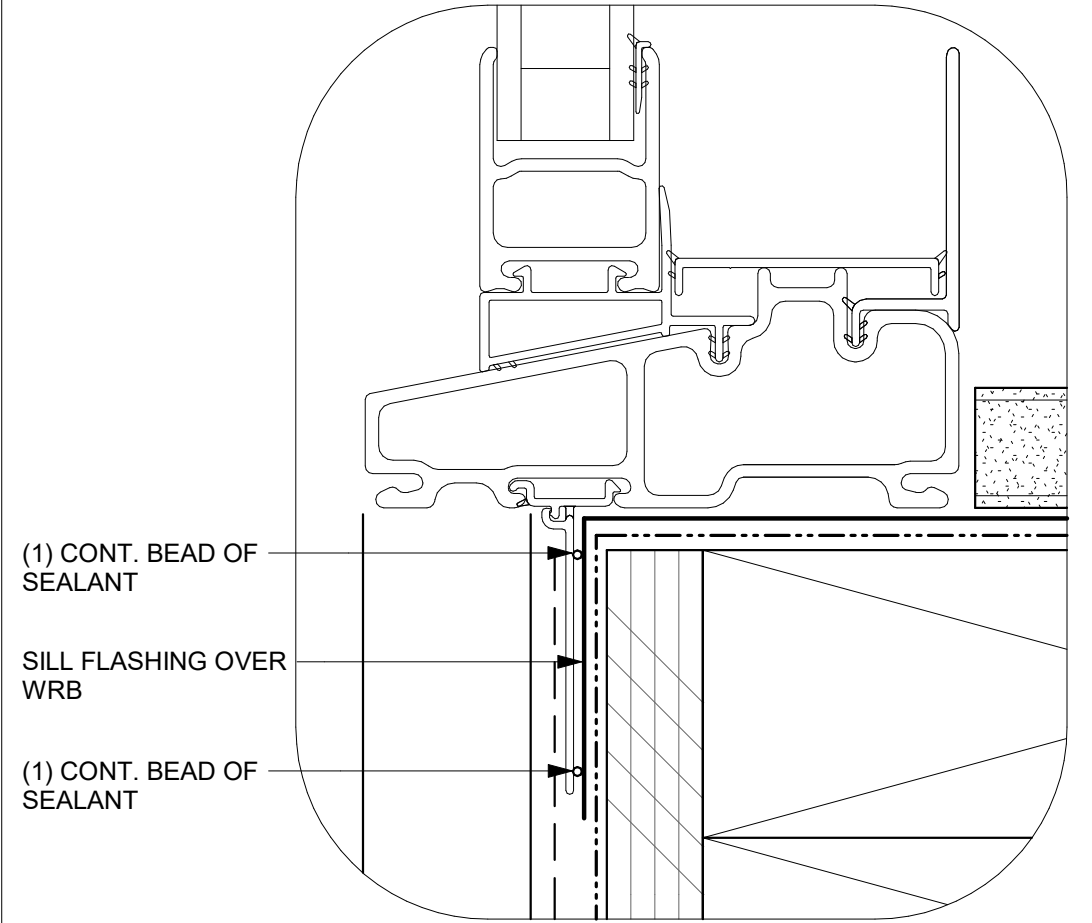


- WOOD STUDS**  
NOMINAL 2X4 SPACED 16" O.C. WITH (2) 2X4 TOP PLATES (1) 2X4 BOTTOM PLATE. STUDS LATERALLY-BRACED BY WOOD STRUCTURAL PANEL SHEATHING (ITEM 5) AND EFFECCECTIVELY FIRE STOPPED AT TOP AND BOTTOM OF WALL.
- GYPSUM BOARD**  
ANY CLASSIFIED 5/8" THICK, 48" WIDE, APPLIED VERTICALLY AND NAILED TO STUDS AND BEARING PLATES 7" O.C. WITH 6D CEMENT-COATED NAILS, 1 7/8" LONG WITH 1/4" DIAM. HEAD.  
JOINTS AND NAILHEADS (NOT SHOWN) - WALLBOARD JOINTS COVERED WITH TAPE AND JOINT COMPOUND. NAIL HEADS COVERED WITH JOINT COMPOUND.
- BATTS AND BLANKETS**  
MINERAL FIBER OR GLASS INSULATION, 3 1/2" THICK. PRESSURE FIT TO FILL WALL CAVITIES BETWEEN STUDS AND PLATES. MINERAL FIBER INSULATION TO BE UNFACED AND TO HAVE A MIN. DENSITY OF 3 PCF. GLASS FIBER INSULATION TO BE FACED WITH ALUMIUM FOIL OR FRAFT PAPER AND TO HAVE A MIN. DENSITY OF 0.9 PCF (MIN. R-13 THERMAL INSULATION RATING). FIBER SPRAYED - AS AN ALTERNATE TO BATTS AND BLANKETS (ITEM 4) - SPRAY APPLIED CELLULOSE INSULATION MATERIAL. THE FIBER IS APPLIED WITH WATER TO COMPLETELY FILL THE ENCLOSED CAVITY IN ACCORDANCE WITH THE APPLICATION INSTRUCTIONS SUPPLIED WITH THE PRODUCT. NOMINAL DRY DENSITY OF 3.0 LB/CU.FT.
- WOOD STRUCTURAL PANEL SHEATHING**  
MIN 7/16" THICK, 4 FT. WIDE WOOD STRUCTURAL PANELS, MIN. GRADE "C-D" OR "SHEATHING". INSTALLED WITH LONG DIMENSION OF SHEET (STRENGTH AXIS) OR FACE GRAIN OF PLYWOOD PARALLEL WITH OR PERPENDICULAR TO STUDS. VERTICAL JOINTS CENTERED ON STUDS. HORIZONTAL JOINTS BACKED WITH NOMINAL 2X4 WOOD BLOCKING ATTACHED TO STUDS ON EXTERIOR SIDE OF WALL WITH 6D CEMENT COATED BOX NAILS SPACED 6" O.C. AT PERIMETER OF PANELS AND 12" O.C. ALONG INTERIOR STUDS.
- EXTERIOR FACING**  
INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTION. ONE OF THE FOLLOWING EXTERIOR FACINGS IS TO BE APPLIED OVER THE SHEATHING. REFER TO PLAN FOR INFOEMATION:
  - COPPER TUBING - NOM. 4 IN. DIAM. (OR SMALLER) TYPE M (OR HEAVIER) COPPER TUBING.
  - COPPER PIPE - NOM. 4 IN. DIAM. (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
  - STEEL PIPE - NOM. 4 IN. DIAM. (OR SMALLER) SCHEDULE 5 (OR HEAVIER) STEEL PIPE.
  - CONDUIT - NOM. 4 IN. DIAM. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR RIGID STEEL CONDUIT
  - IRON PIPE - NOM. 4 IN. DIAM. (OR SMALLER) CAST OR DUCTILE IRON PIPE.
- FILL, VOID OR CAVITY MATERIALS** (BEARING THE UL CLASSIFICATION MARKING) - CAULK OR PUTTY - MIN. 1/2 IN. DIAMETER BEAD CAULK OR PUTTY APPLIED CONTINUOUSLY AROUND THE PENETRANT ON THE WALL SURFACES ON BOTH SIDES OF THE WALL.

**UL DES U305**  
AT INTERIOR WALL USE:  
5/8" SHEETROCK® FIRE CODE CORE PANELS,  
5/8" SHEETROCK ULTRALIGHT PANELS FIRE CODE X OR  
5/8" FIBEROCK PANELS -  
2 X 4 WOOD STUD 16" OR 24" O.C.

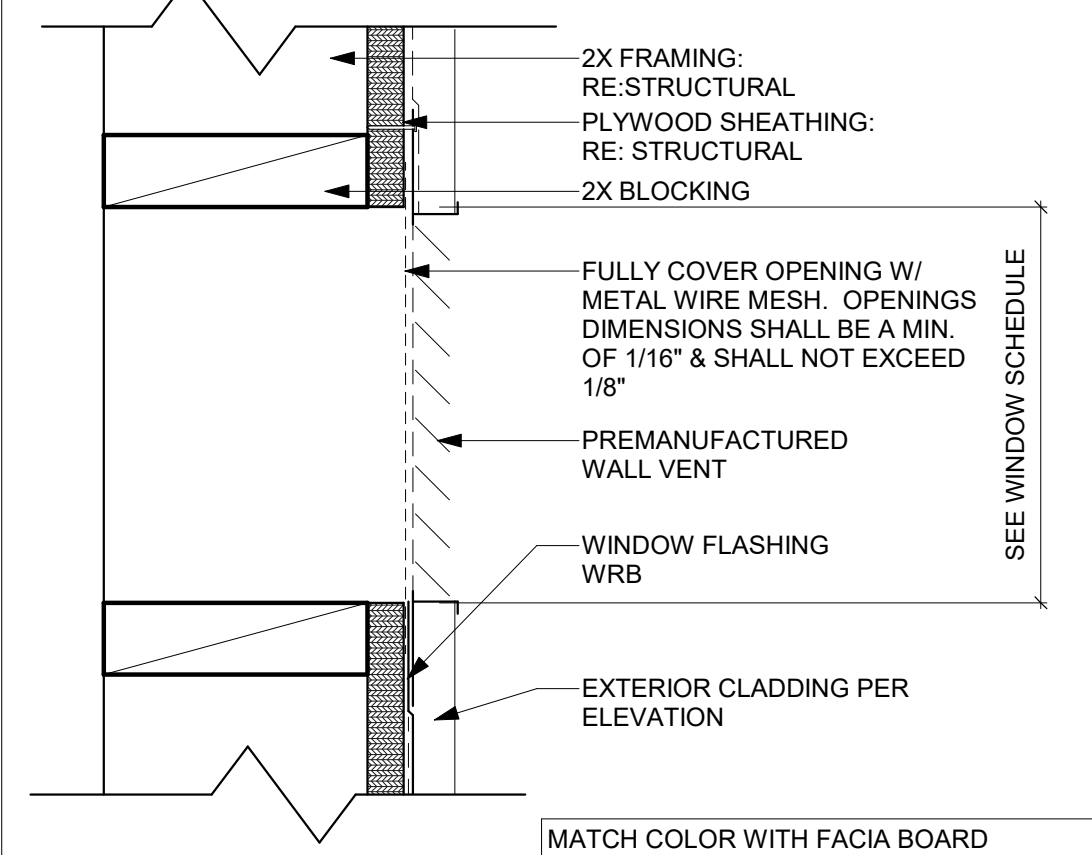
**24 1-HR EXTERIOR RATED WALL ASSEMBLY**

SCALE: 3" = 1'-0"



**13 DETAILED SILL FLASHING**

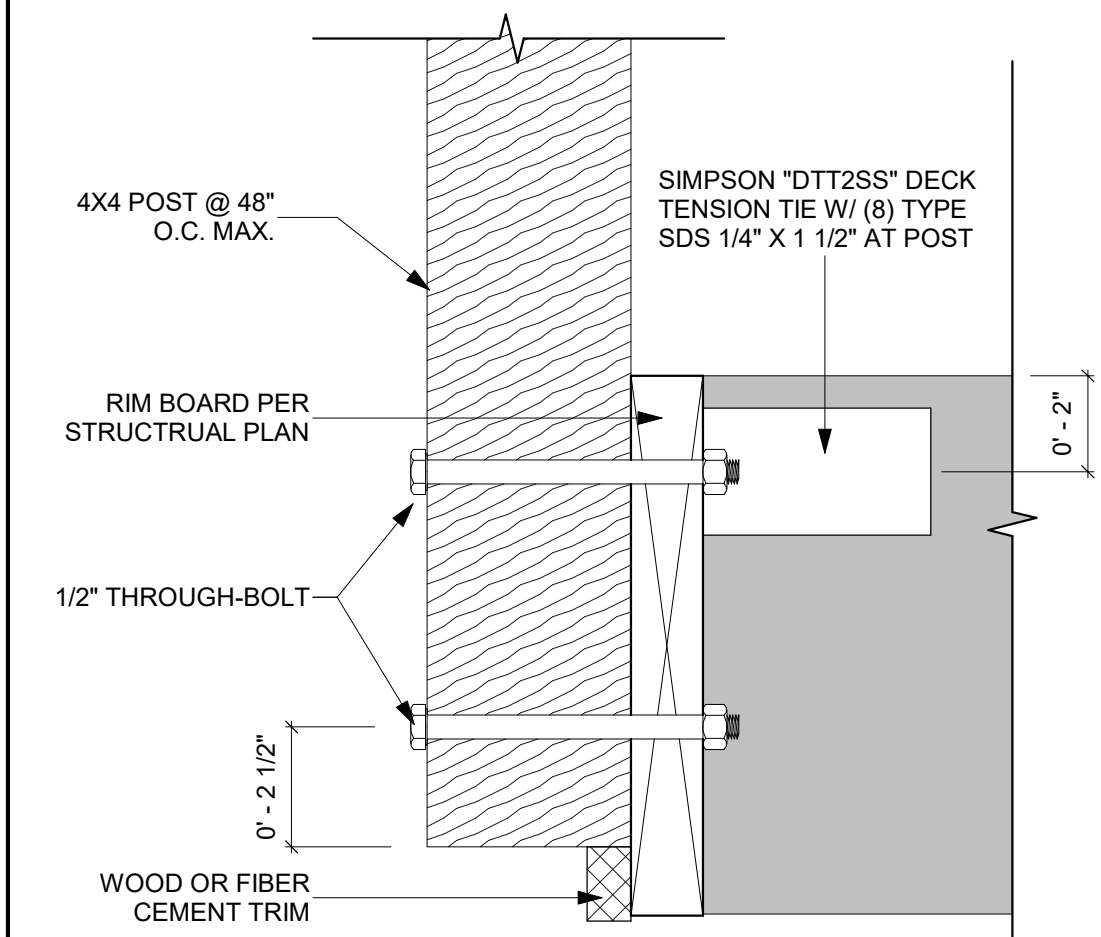
SCALE: 12" = 1'-0"



**NOTE: DETAIL PROVIDED FOR ADDITIONAL VENTING WHEN REQUIRED BY SPECIAL CIRCUMSTANCES**

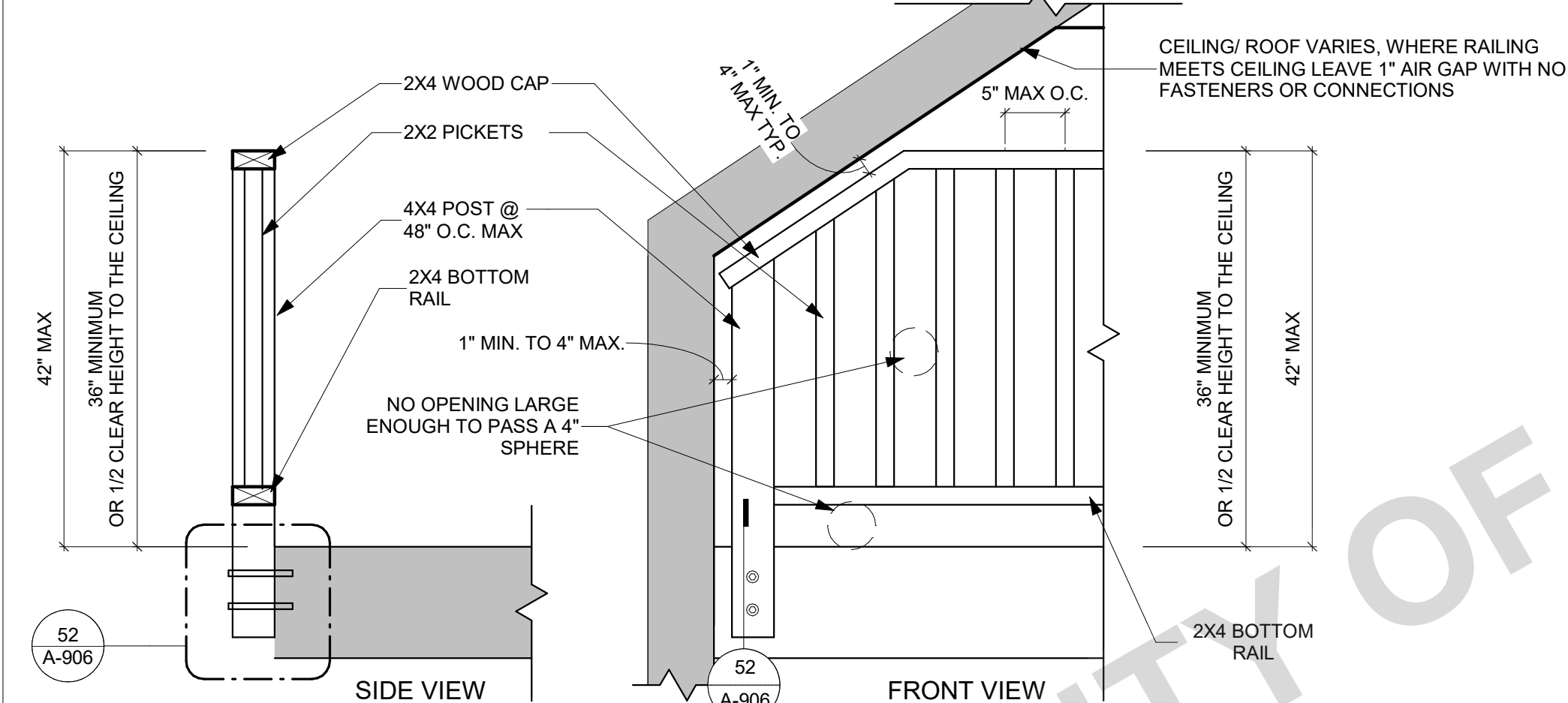
**14 WALL VENT - LOFT**

SCALE: 3" = 1'-0"



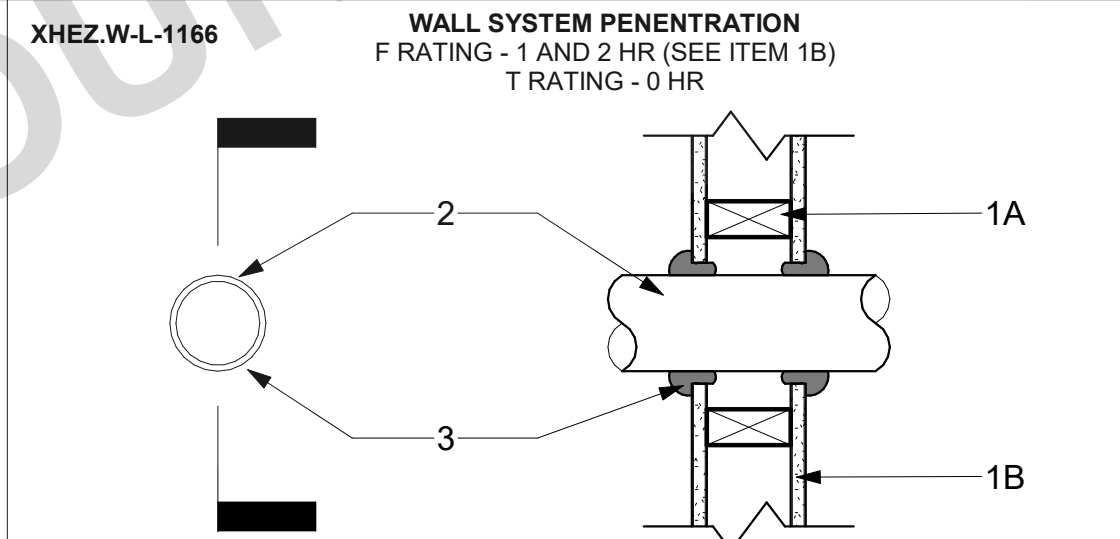
**52 INT. RAILING CONNECTION DETAIL**

SCALE: 3" = 1'-0"



**42 LOFT GUARDS**

SCALE: 1" = 1'-0"



- WALL ASSEMBLY**  
THE 1 OR 2 HR. FIRE RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
  - STUDS-**  
WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM. 2 IN. BY 4 IN. LUMBER SPACED 16 IN. O.C. STEEL STUDS TO BE MIN. 3 1/2 IN. WIDE AND SPACED MAX. 24 IN. O.C.
  - GYPSUM BOARD** (BEARING THE UL CLASSIFICATION MARKING)- THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS AS REQUIRED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX. DIAM. OF OPENING IS 5 IN.THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
- THROUGH- PENETRANTS**  
ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN THE PIPE, CONDUIT OR TUBING AND PERIPHERY OF THE OPENING SHALL BE MIN. OF 0 IN. (POINT CONTACT) TO A MAX. 1/8 IN. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
  - COPPER TUBING - NOM. 4 IN. DIAM. (OR SMALLER) TYPE M (OR HEAVIER) COPPER TUBING.
  - COPPER PIPE - NOM. 4 IN. DIAM. (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
  - STEEL PIPE - NOM. 4 IN. DIAM. (OR SMALLER) SCHEDULE 5 (OR HEAVIER) STEEL PIPE.
  - CONDUIT - NOM. 4 IN. DIAM. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR RIGID STEEL CONDUIT
  - IRON PIPE - NOM. 4 IN. DIAM. (OR SMALLER) CAST OR DUCTILE IRON PIPE.
- FILL, VOID OR CAVITY MATERIALS** (BEARING THE UL CLASSIFICATION MARKING) - CAULK OR PUTTY - MIN. 1/2 IN. DIAMETER BEAD CAULK OR PUTTY APPLIED CONTINUOUSLY AROUND THE PENETRANT ON THE WALL SURFACES ON BOTH SIDES OF THE WALL.

**34 THROUGH PENETRATION @ WALL - LOFT**

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



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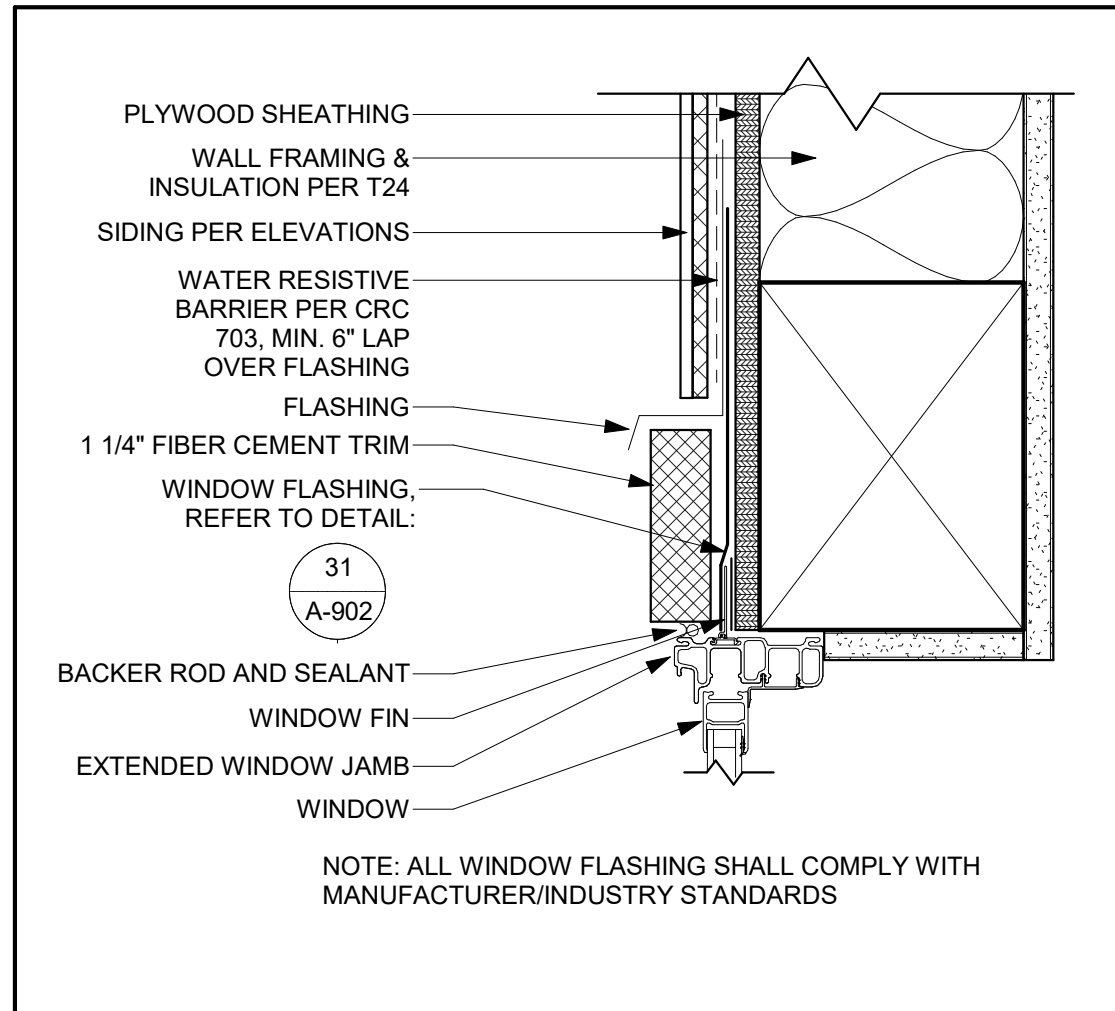
COUNTY OF SAN LUIS OBISPO  
ACCESSORY DWELLING UNIT  
SAN LUIS OBISPO, CA

ARCHITECTURAL DETAILS - LOFT

DATE  
11/28/2023  
SHEET

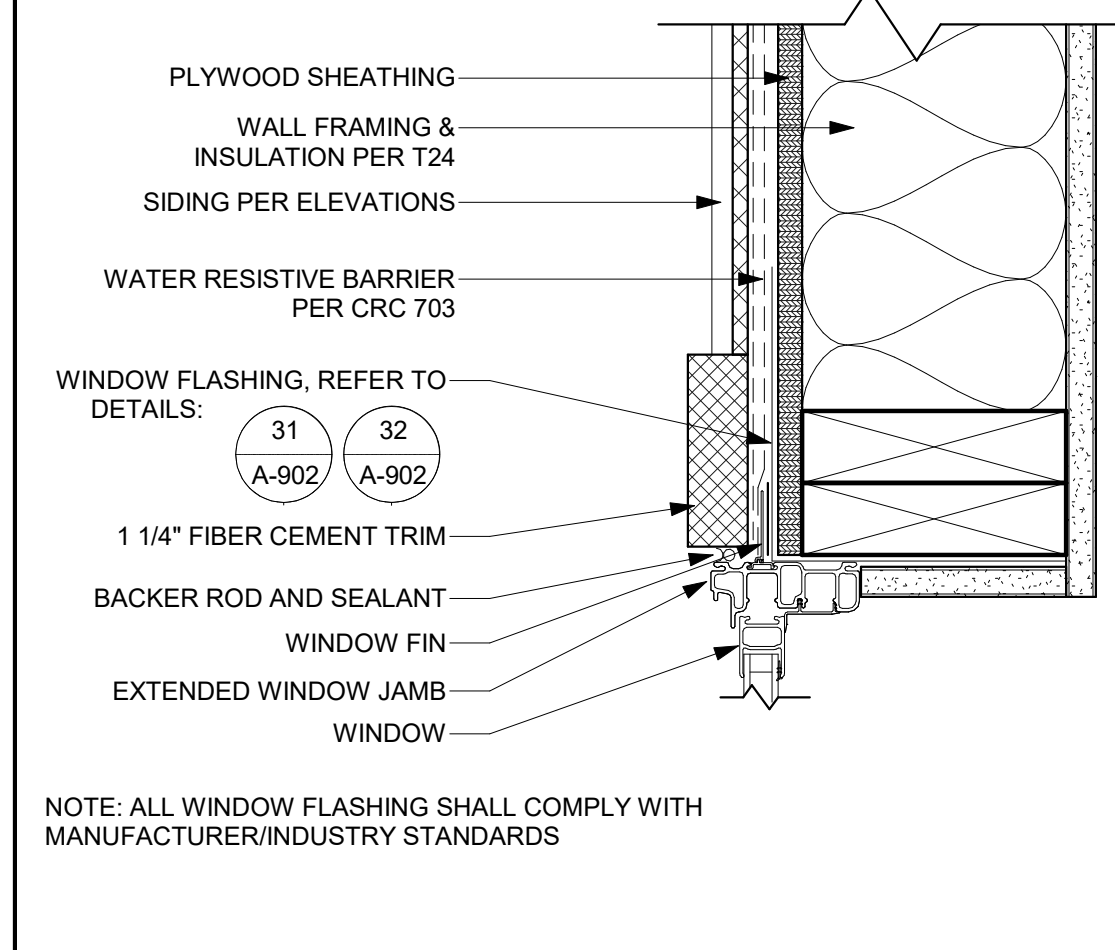
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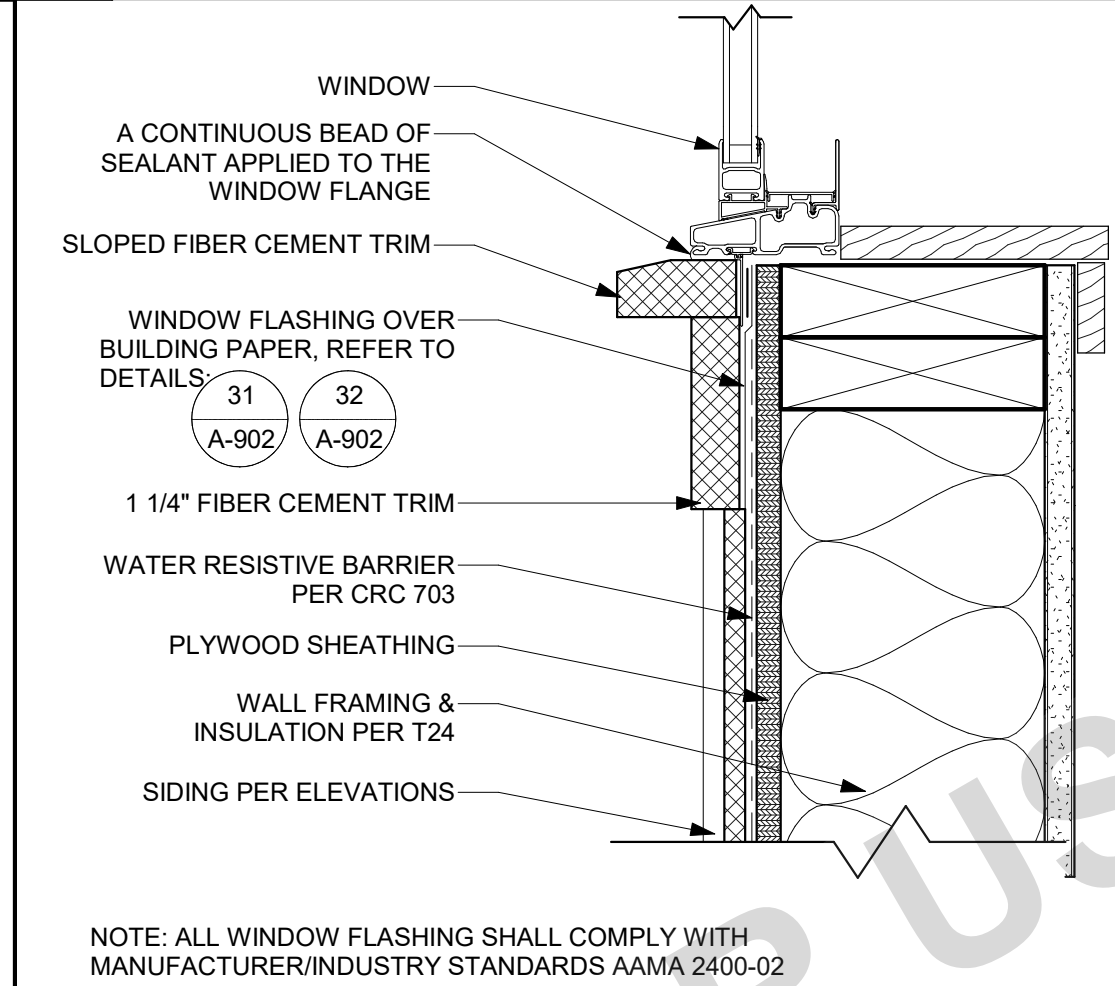
51 TYP. WINDOW HEAD - FARMHOUSE

SCALE: 3" = 1'-0"



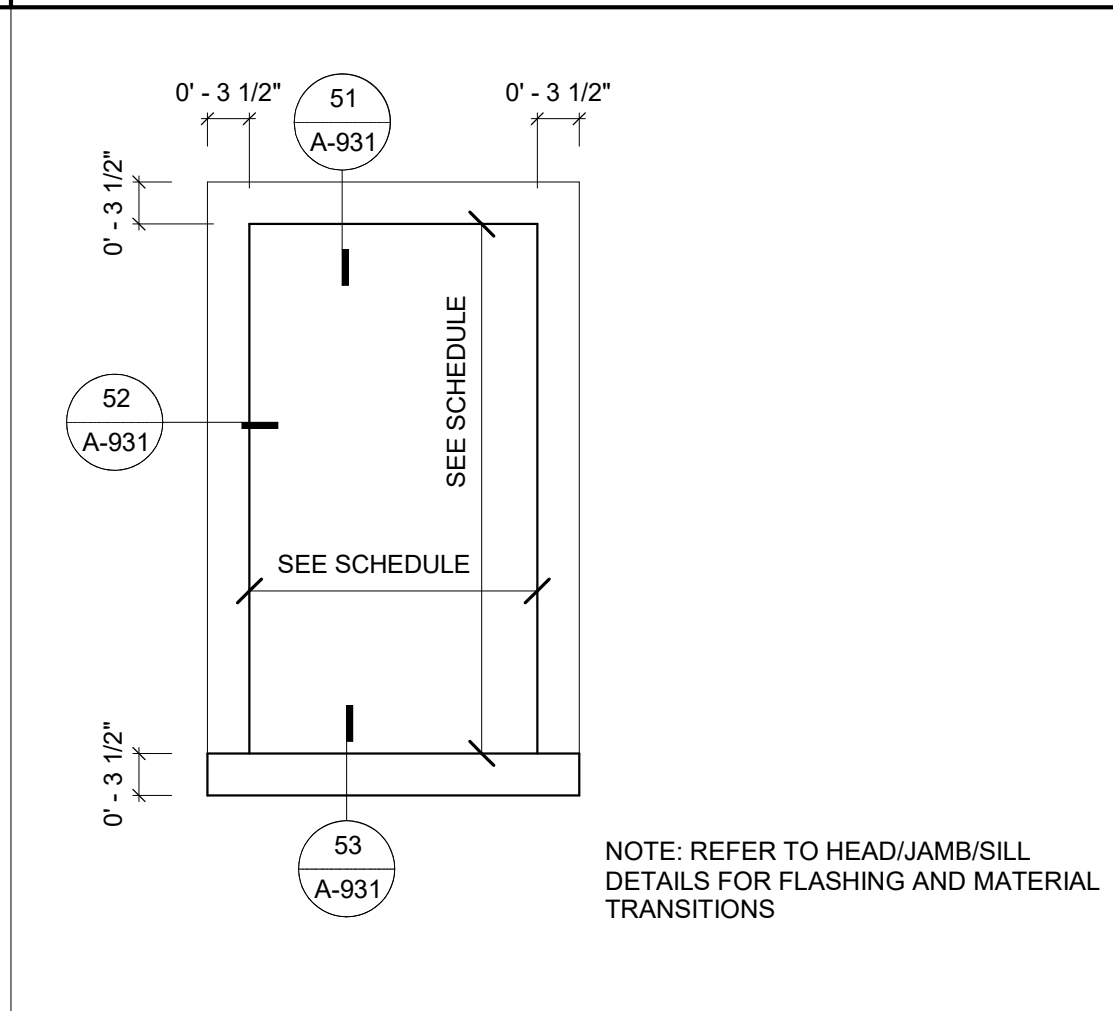
52 TYP. WINDOW JAMB - FARMHOUSE

SCALE: 3" = 1'-0"



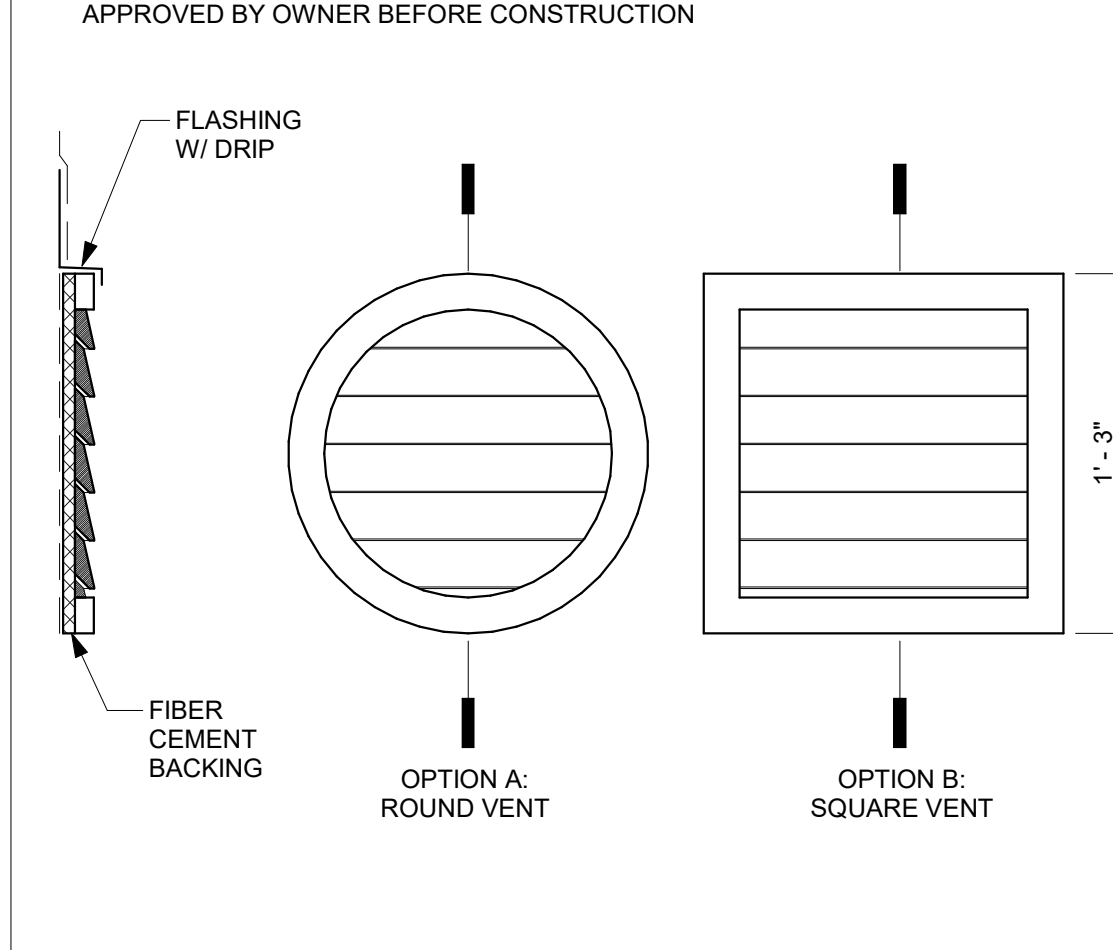
53 TYP. WINDOW SILL - FARMHOUSE

SCALE: 3" = 1'-0"



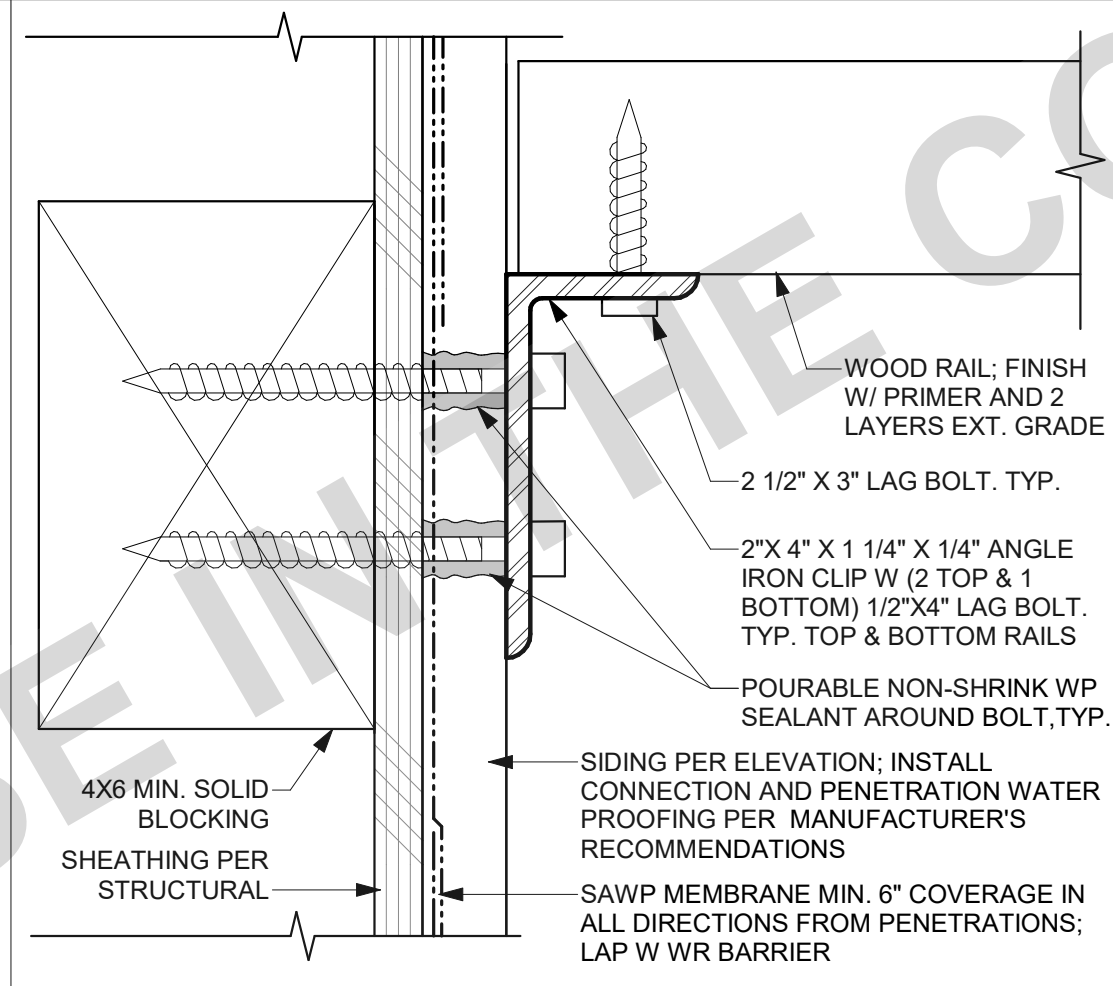
41 WINDOW TRIM - FARMHOUSE

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



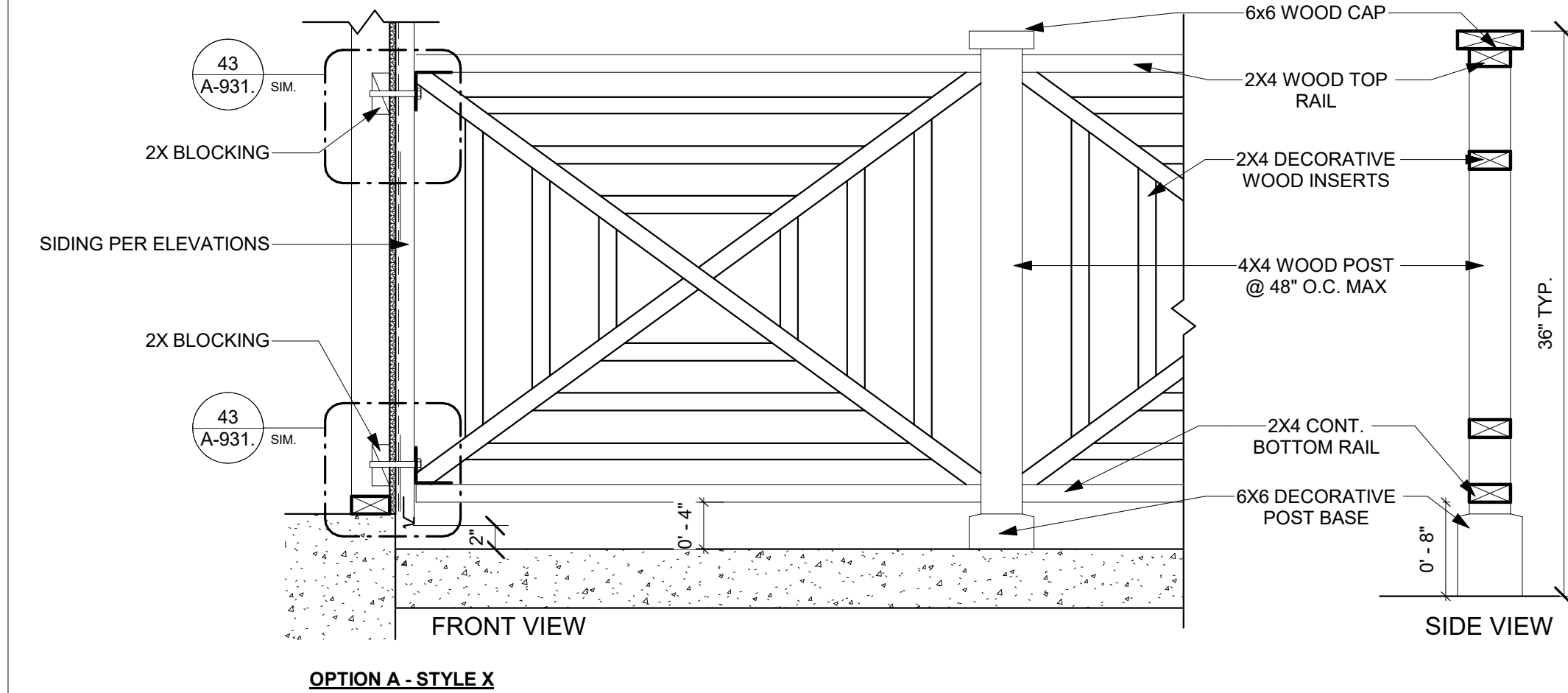
42 DECORATIVE FAUX VENT - LOFT

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



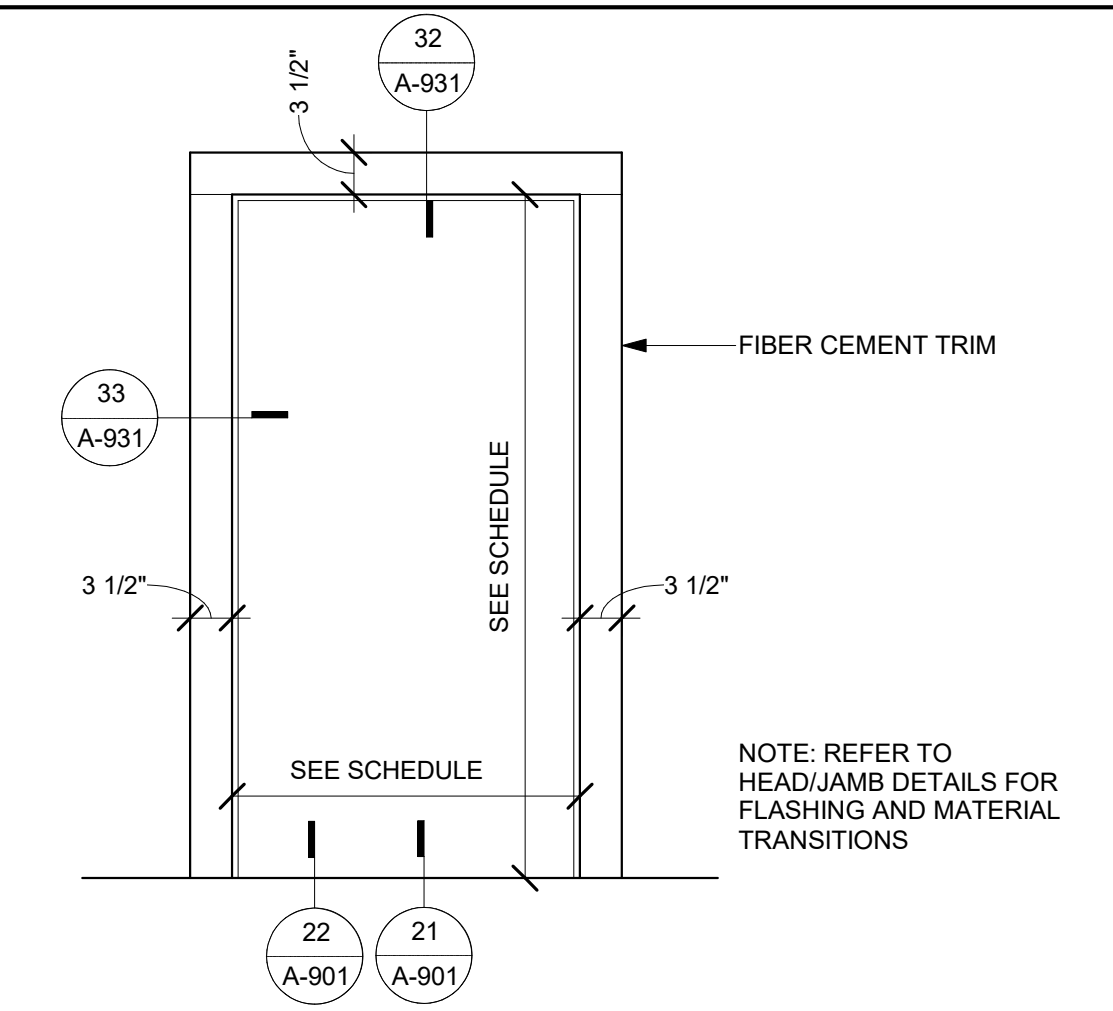
43 EXTERIOR RAILING CONNECTION DETAIL

SCALE: 6" = 1'-0"



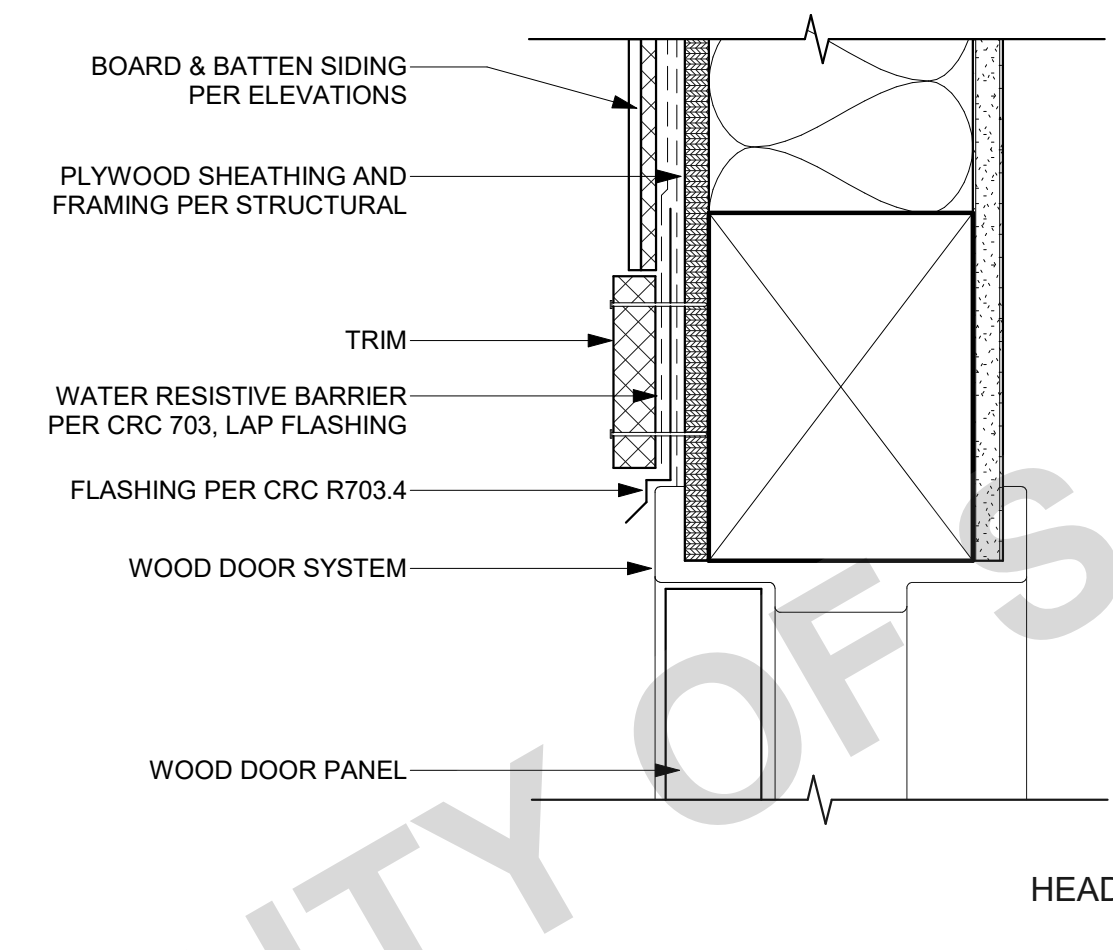
44 DECORATIVE PORCH RAILING

SCALE: 1" = 1'-0"



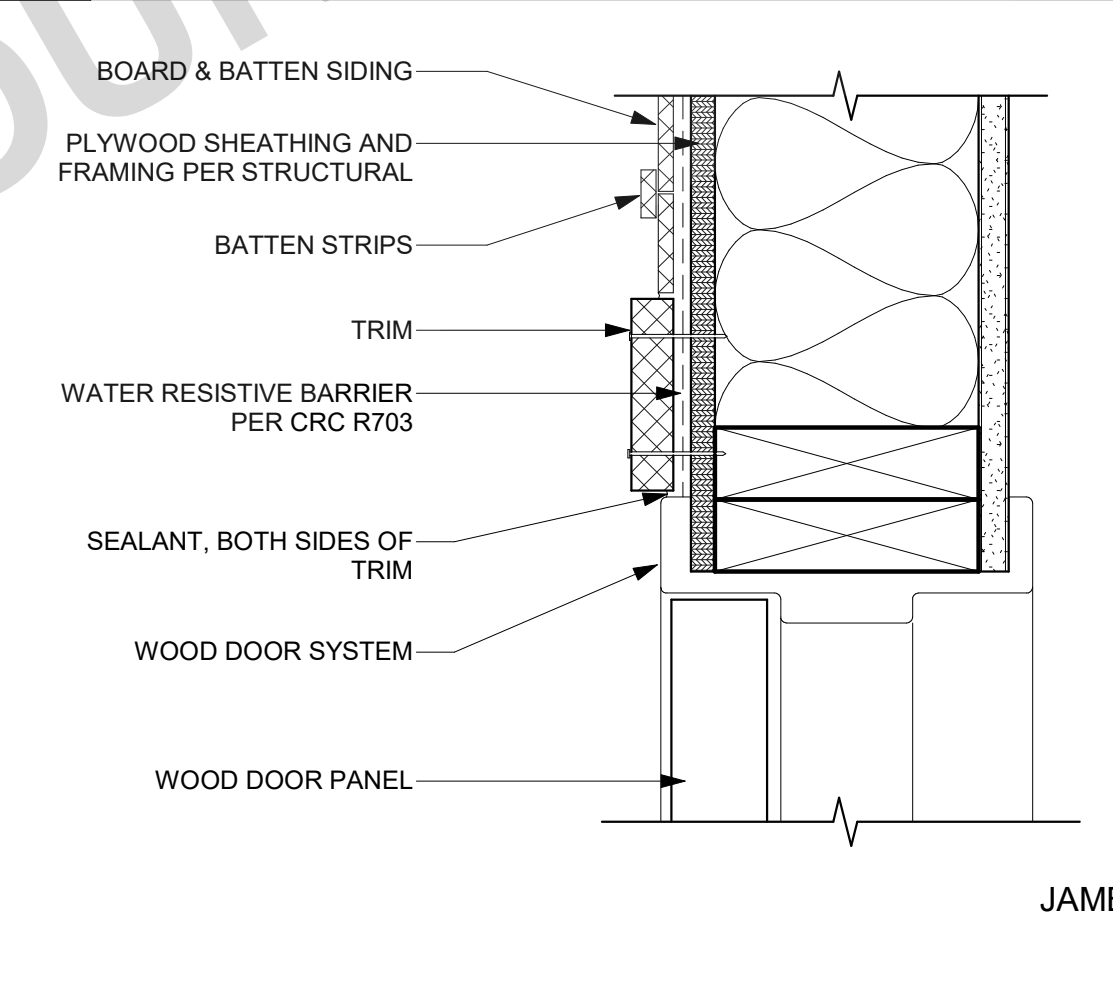
31 TYP. DOOR TRIM

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



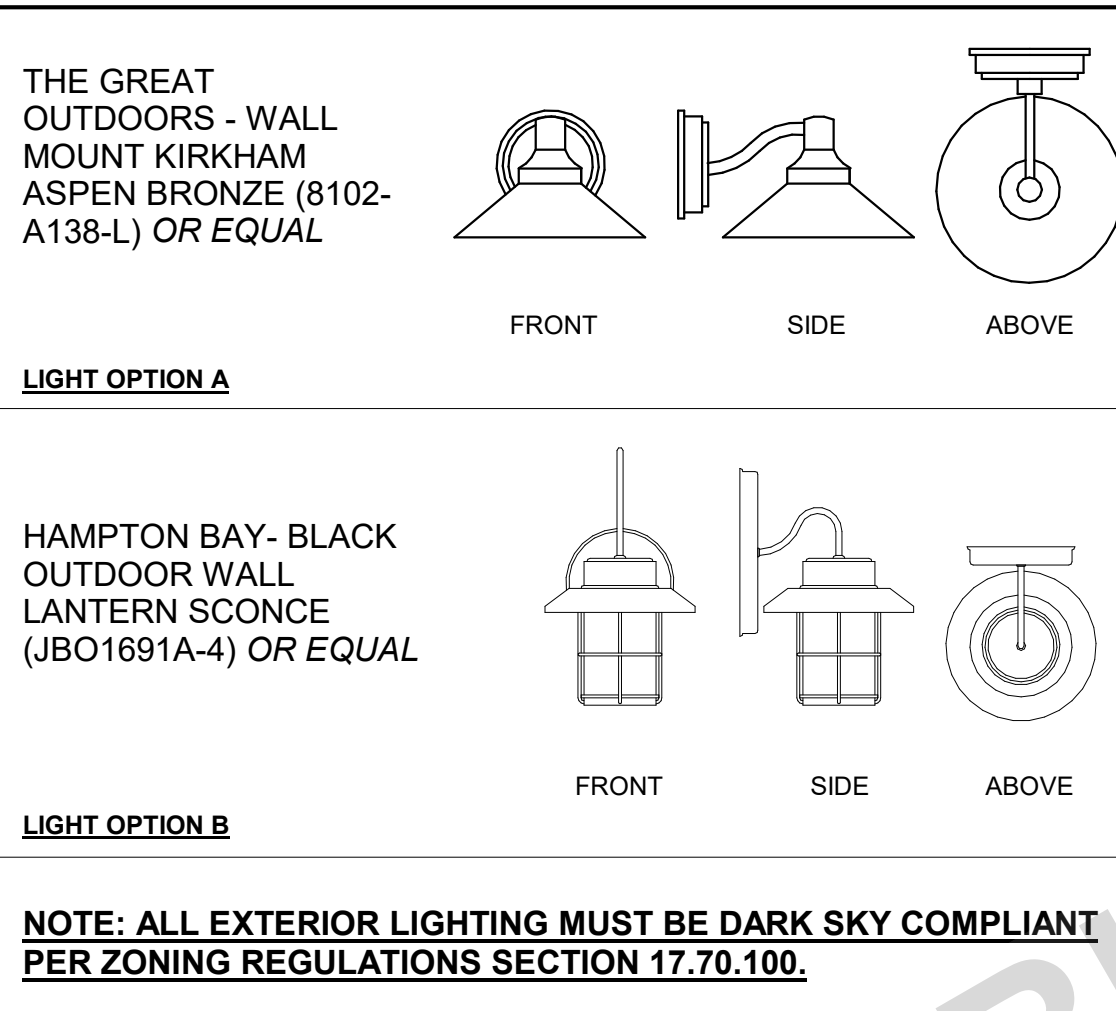
32 DOOR HEAD - BOARD & BATTEN C- LOFT

SCALE: 3" = 1'-0"



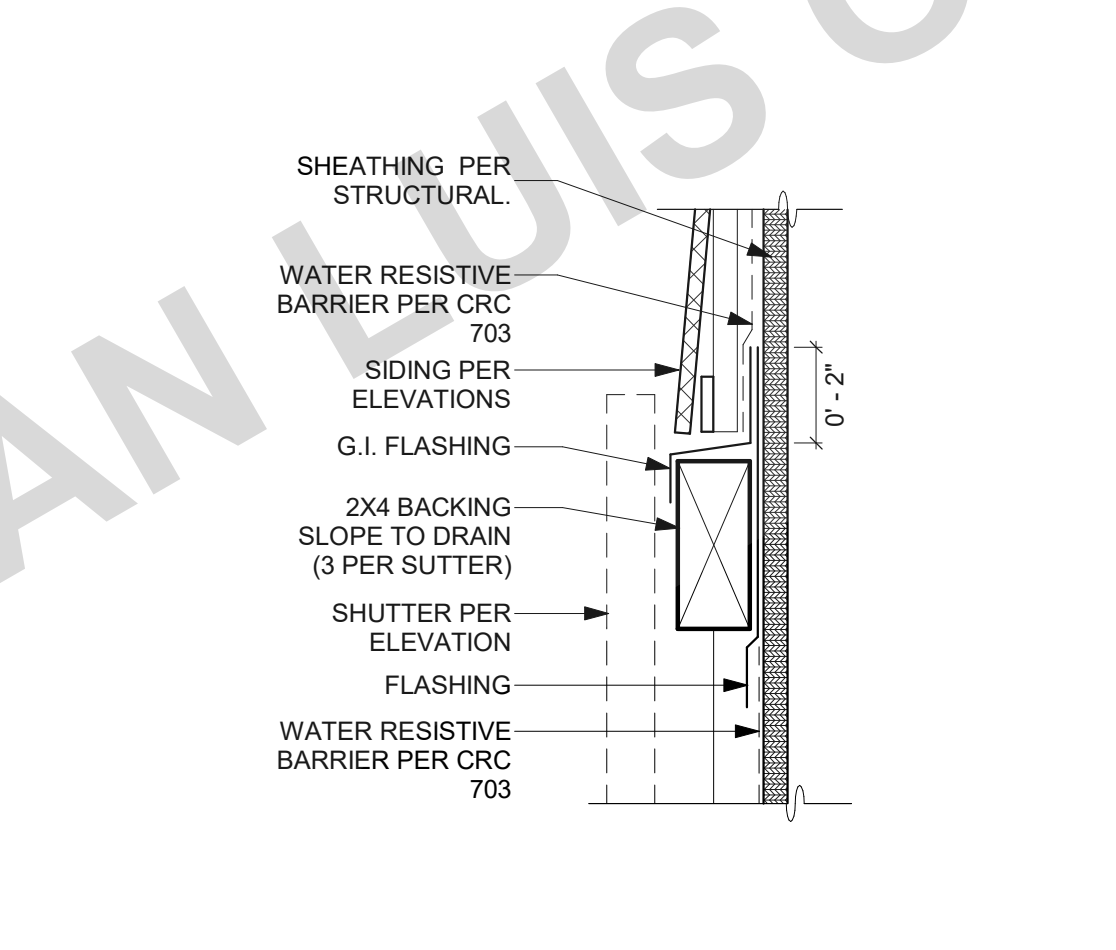
33 DOOR JAMB - BOARD & BATTEN - LOFT

SCALE: 3" = 1'-0"



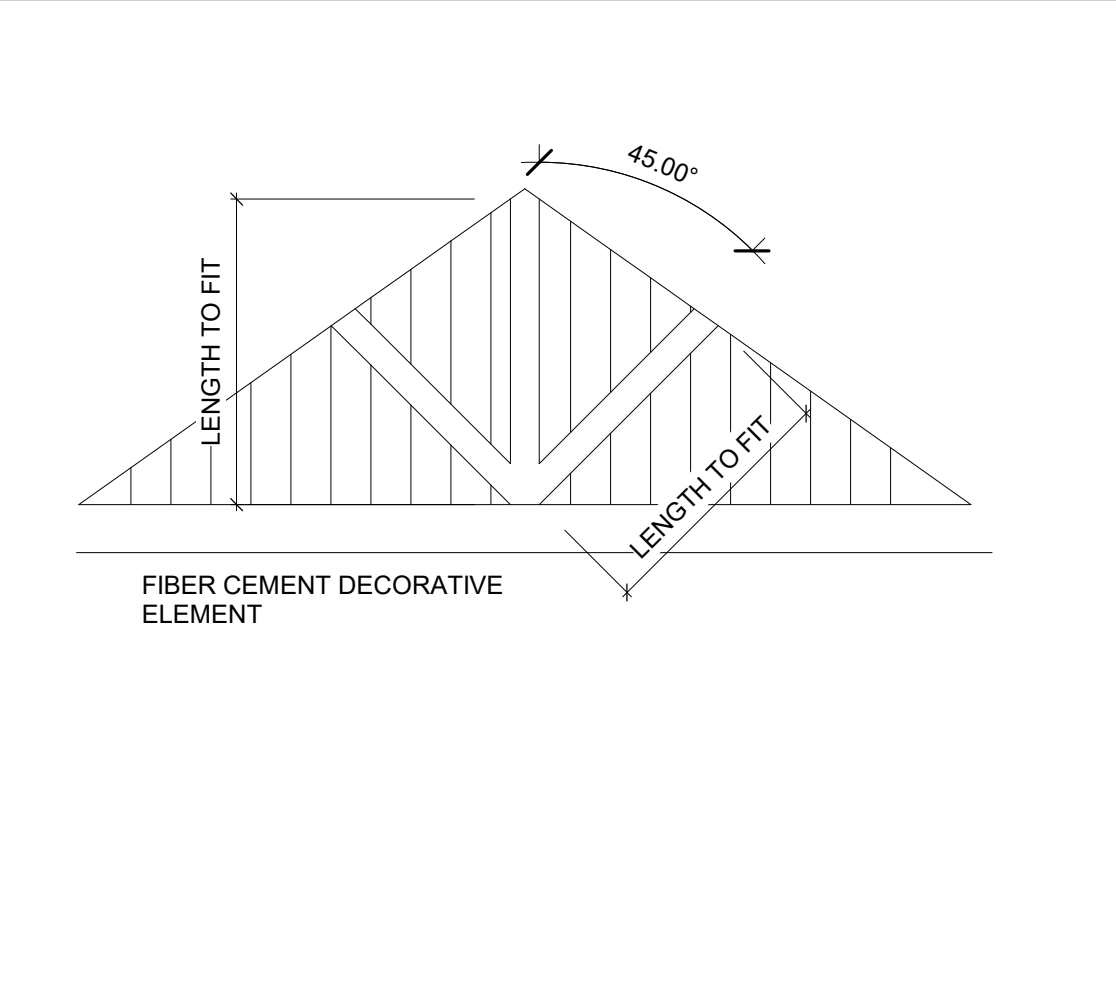
21 LIGHT FIXTURE

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



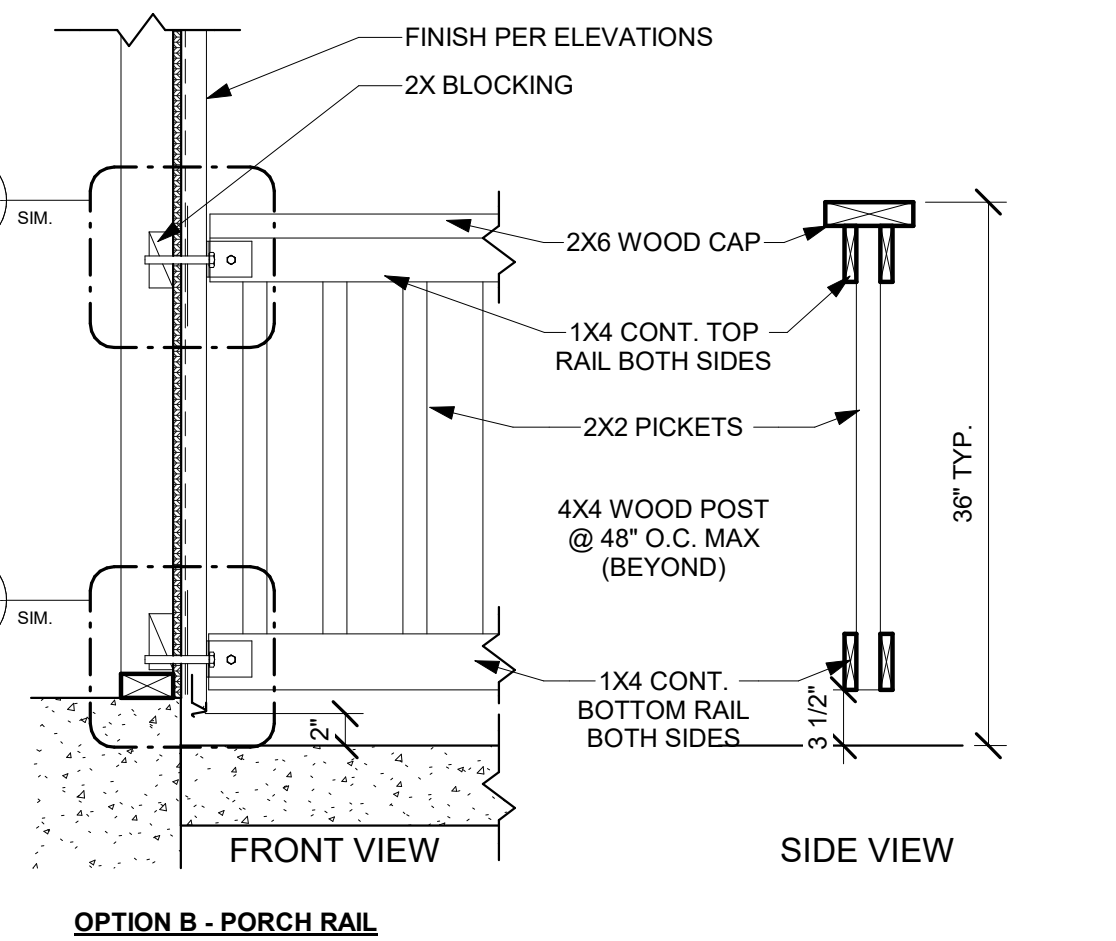
22 DECORATIVE SHUTTER

SCALE: 3" = 1'-0"



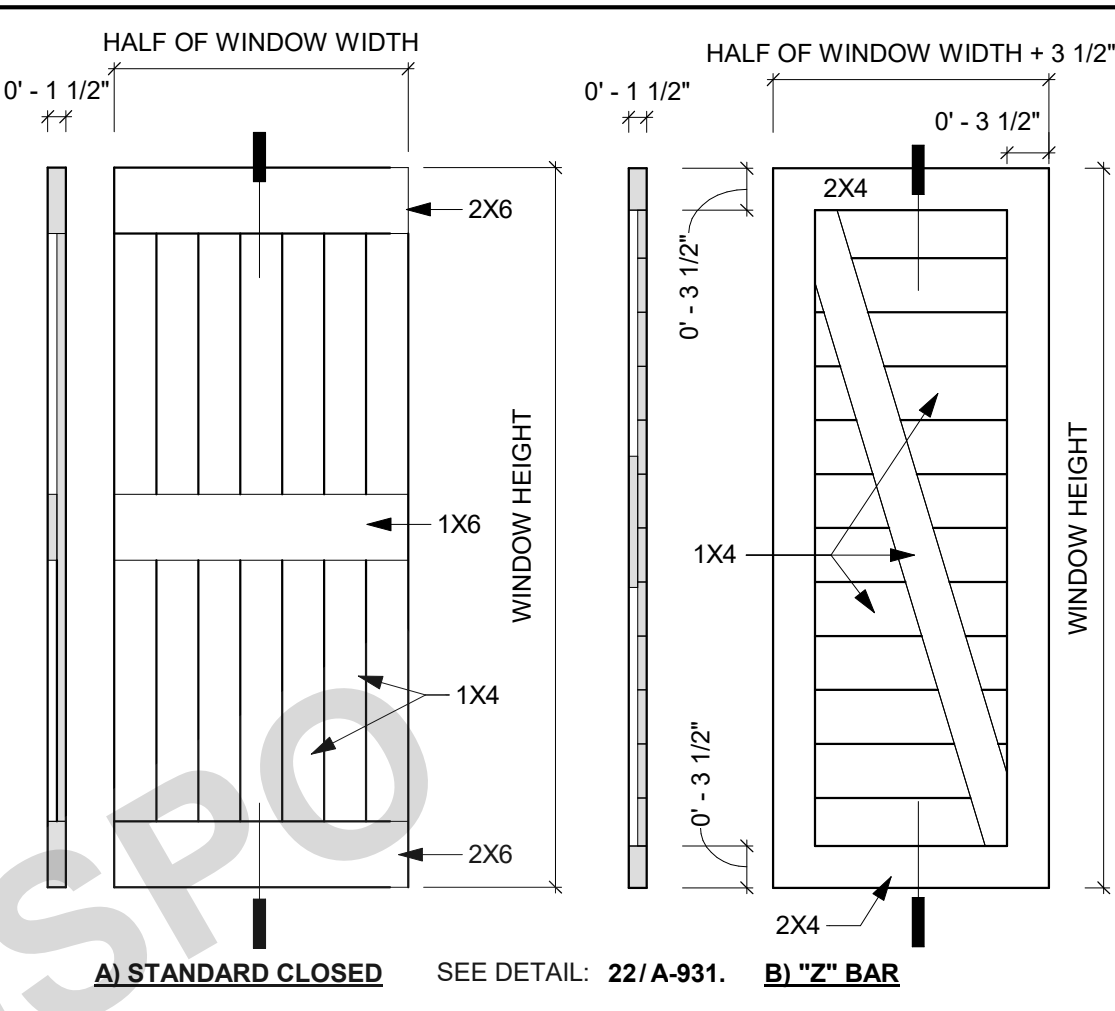
23 DECORATIVE ELEMENT

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



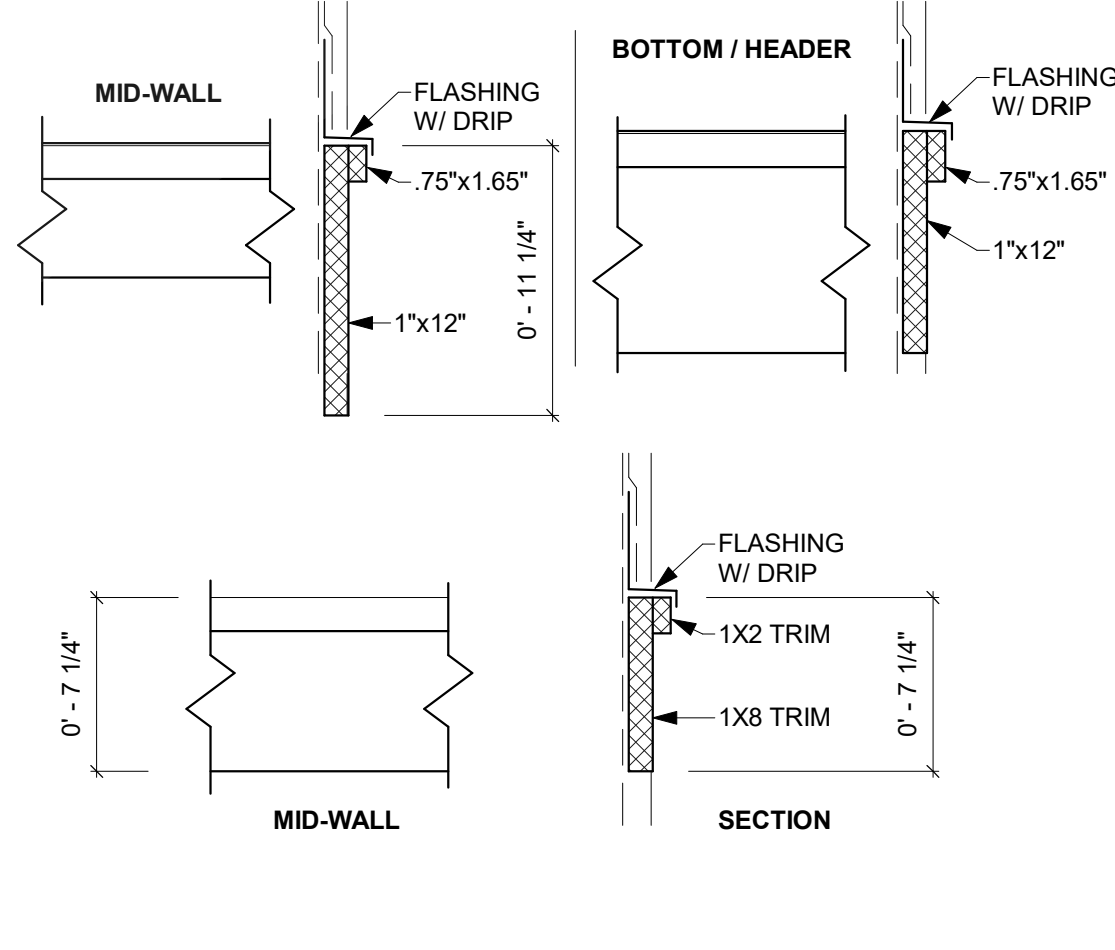
24 TYP. INSIDE CORNER

SCALE: 3" = 1'-0"



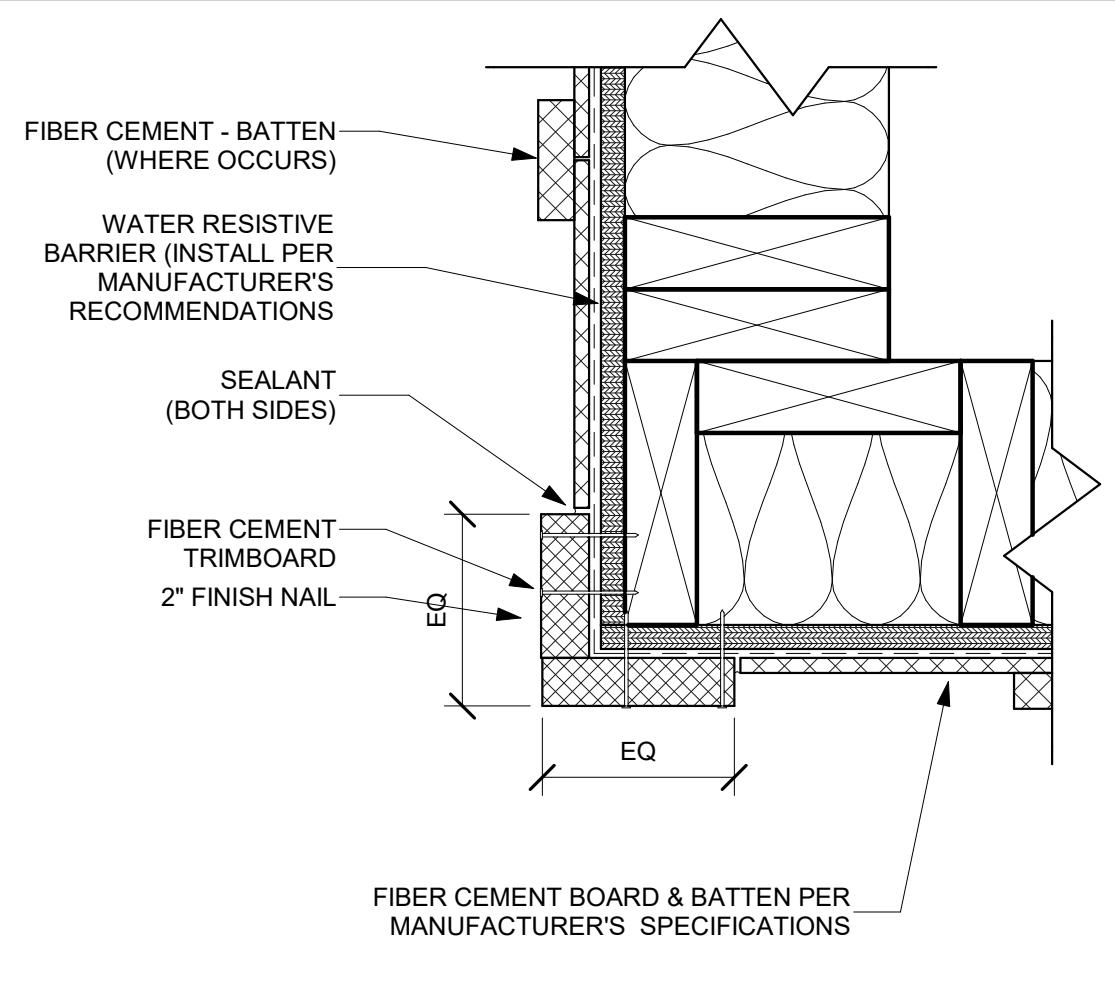
11 DECORATIVE SHUTTER

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



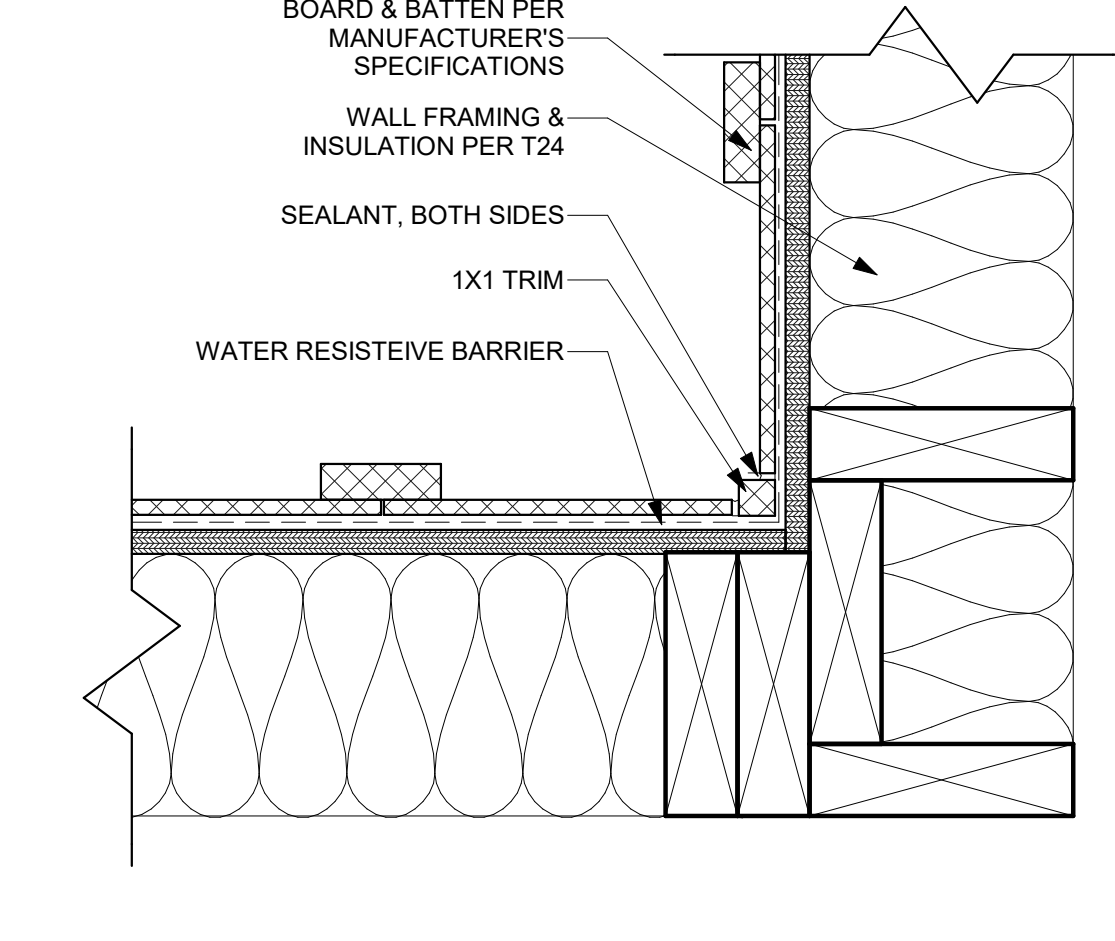
12 TYP. TRIM PROFILE

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



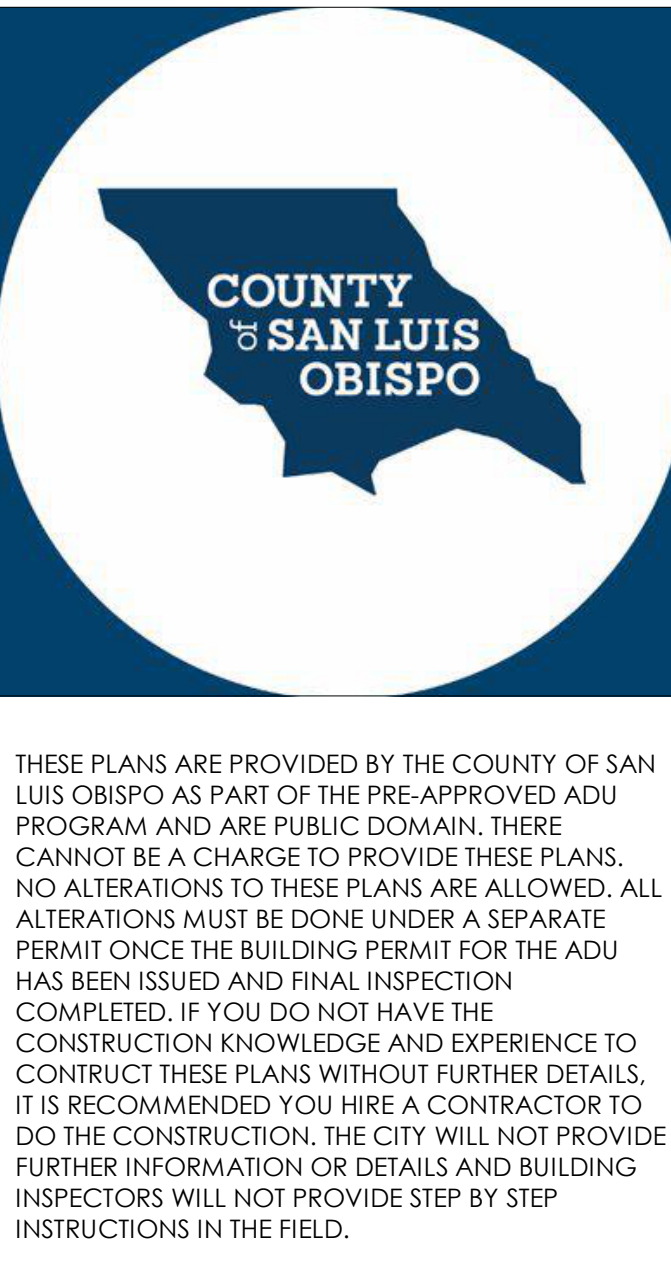
13 TYP. OUTSIDE CORNER

SCALE: 3" = 1'-0"



14 TYP. INSIDE CORNER

SCALE: 3" = 1'-0"



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SAN LUIS OBISPO, CA

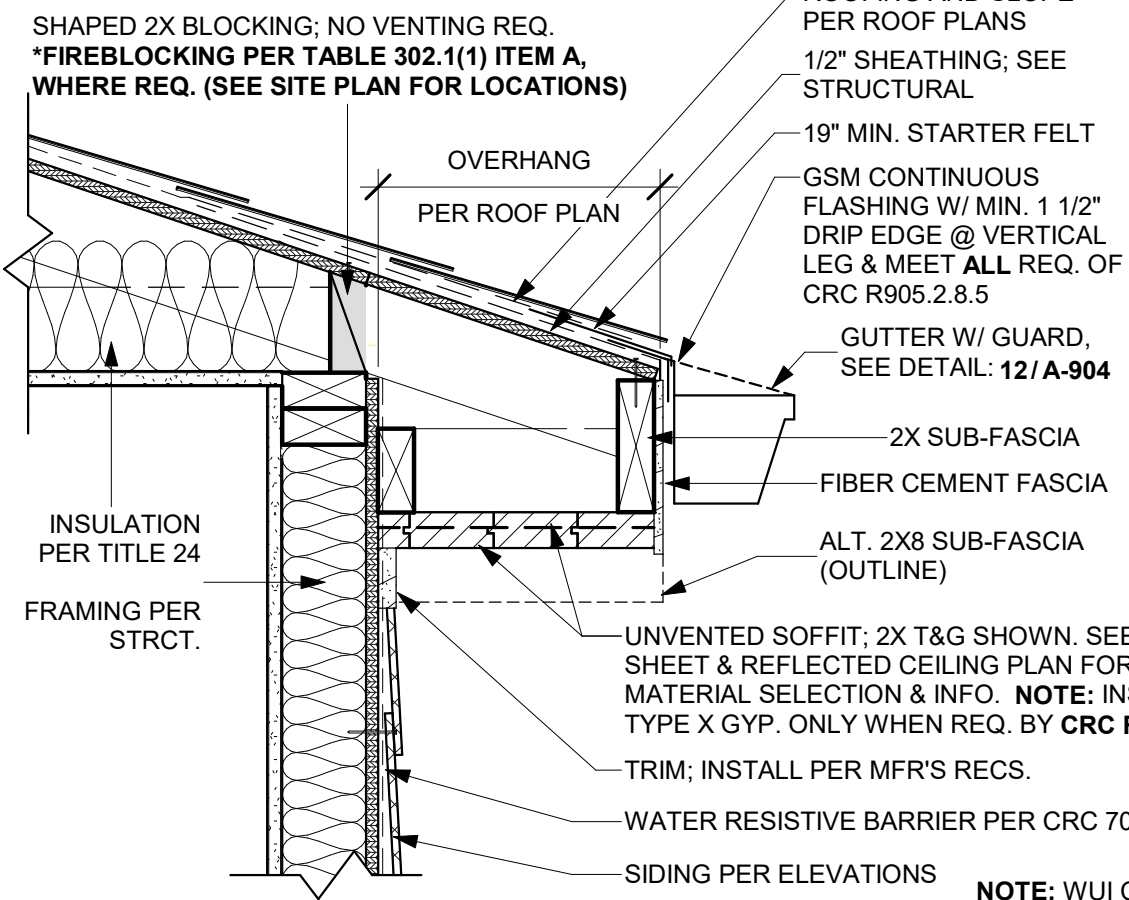
ARCHITECTURAL DETAILS - LOFT

DATE  
11/28/2023  
SHEET

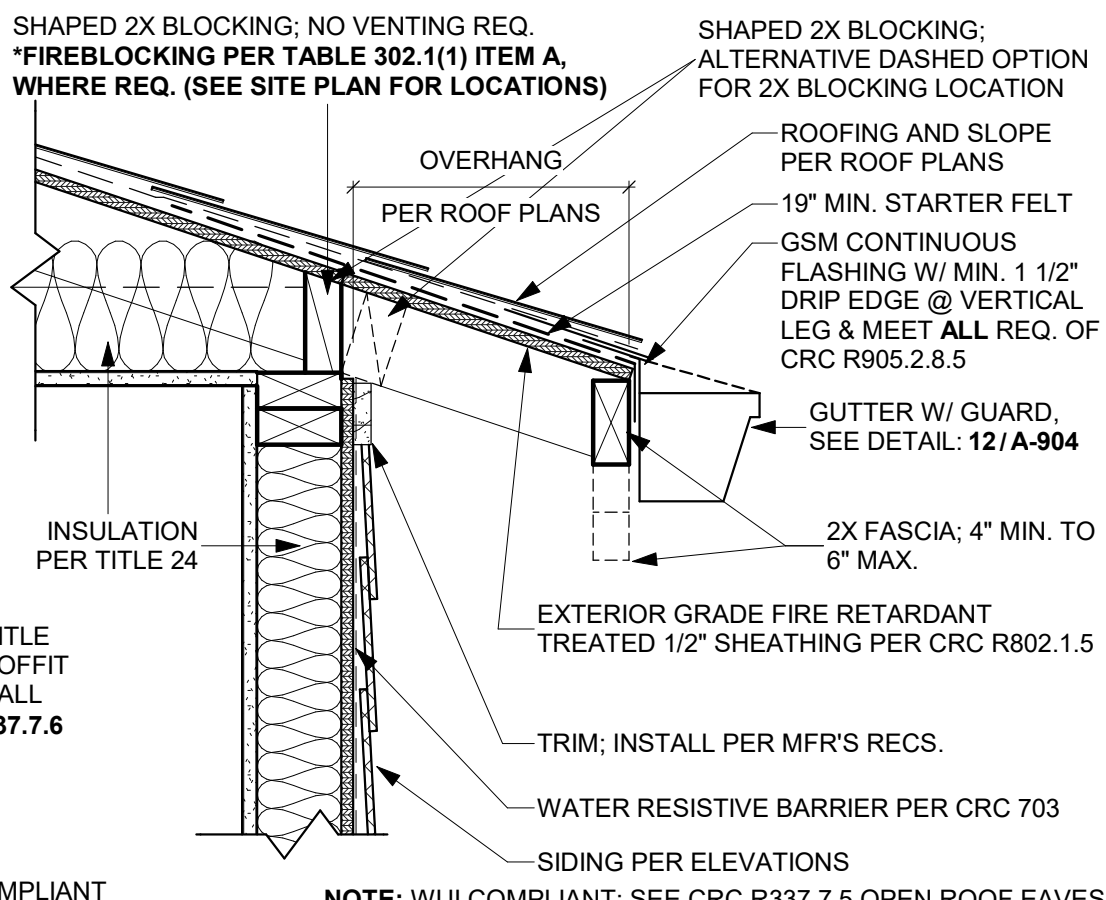
A-931.



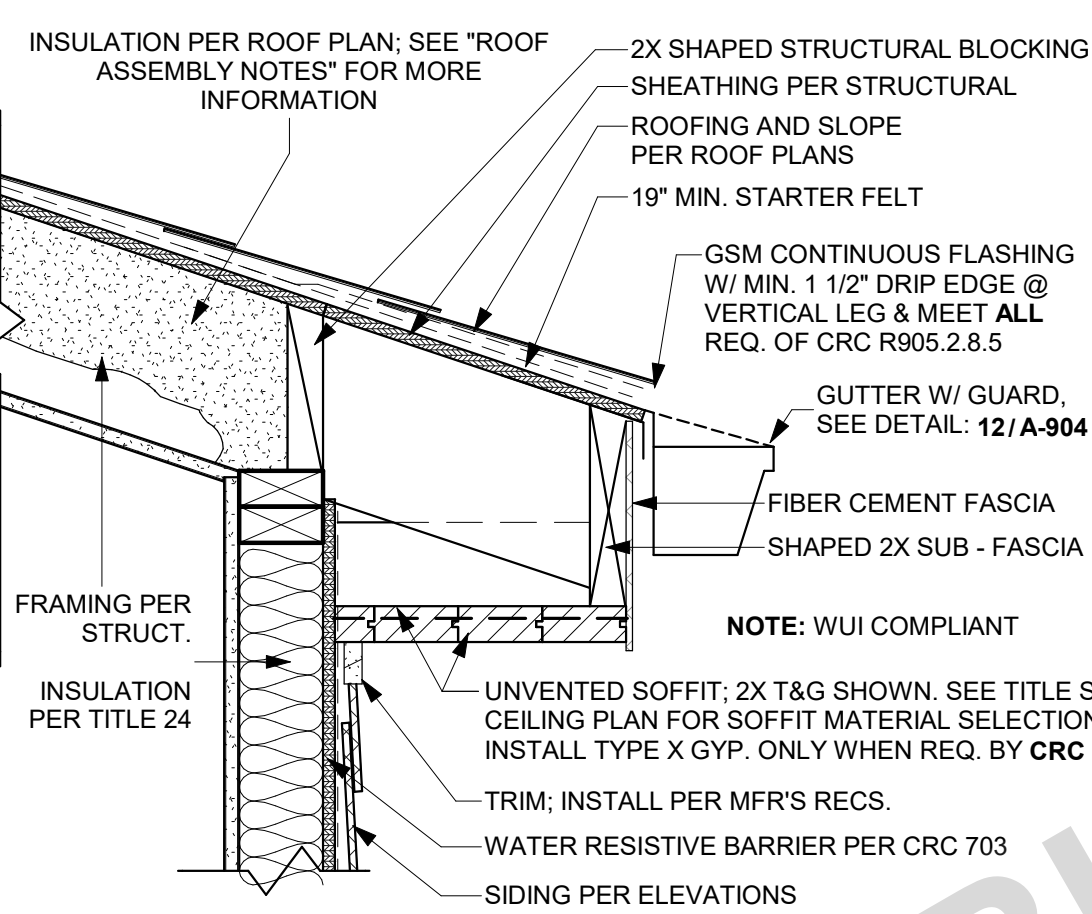
### EAVE OPTION B - ENCLOSED



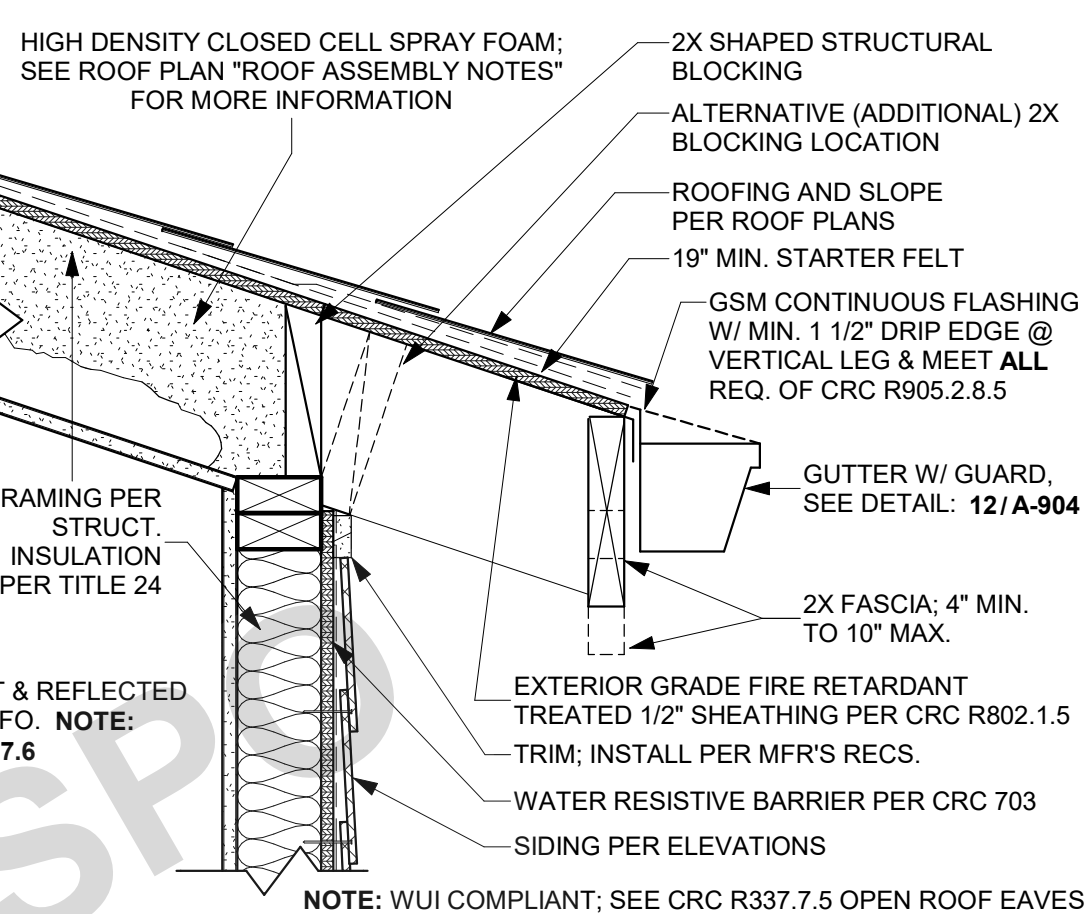
### EAVE OPTION A - OPEN EXPOSED



### EAVE OPTION B - ENCLOSED EAVE



### OPTION A - OPEN EXPOSED EAVE



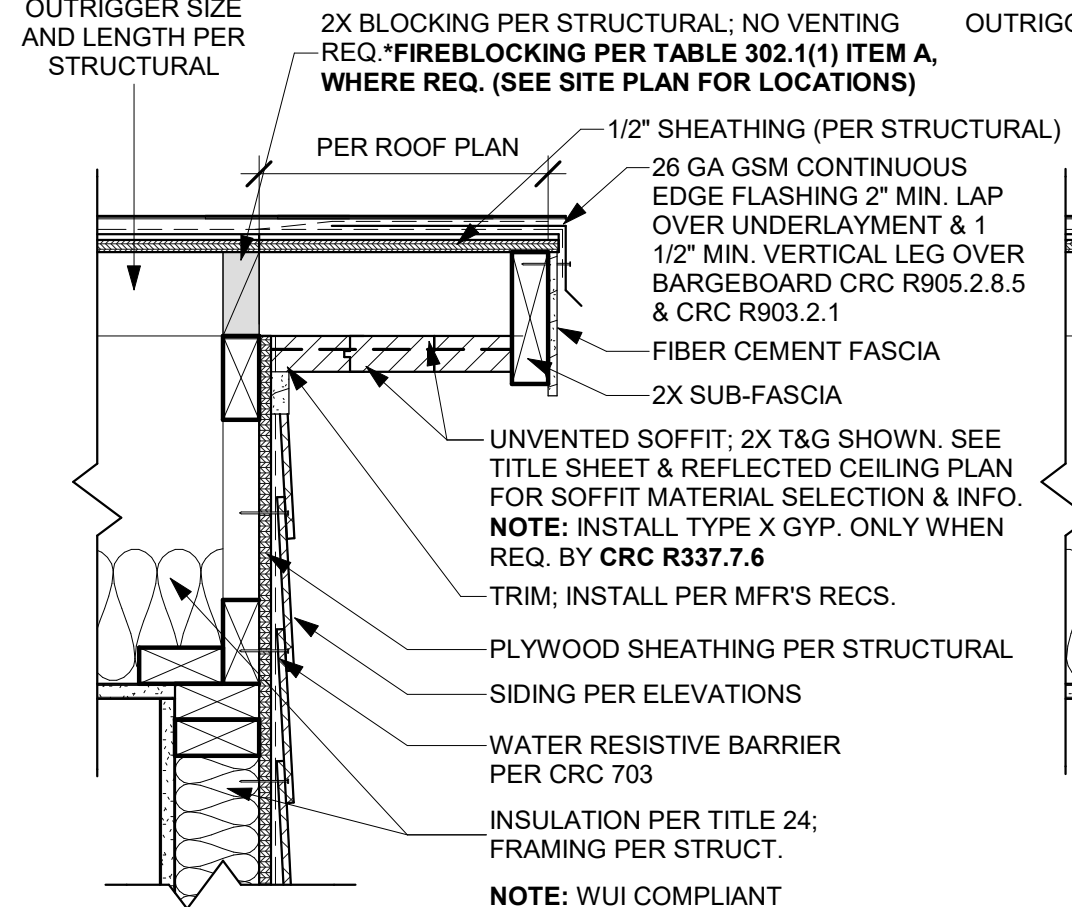
### 41 EAVE @ ATTIC (WHERE APPLICABLE)

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

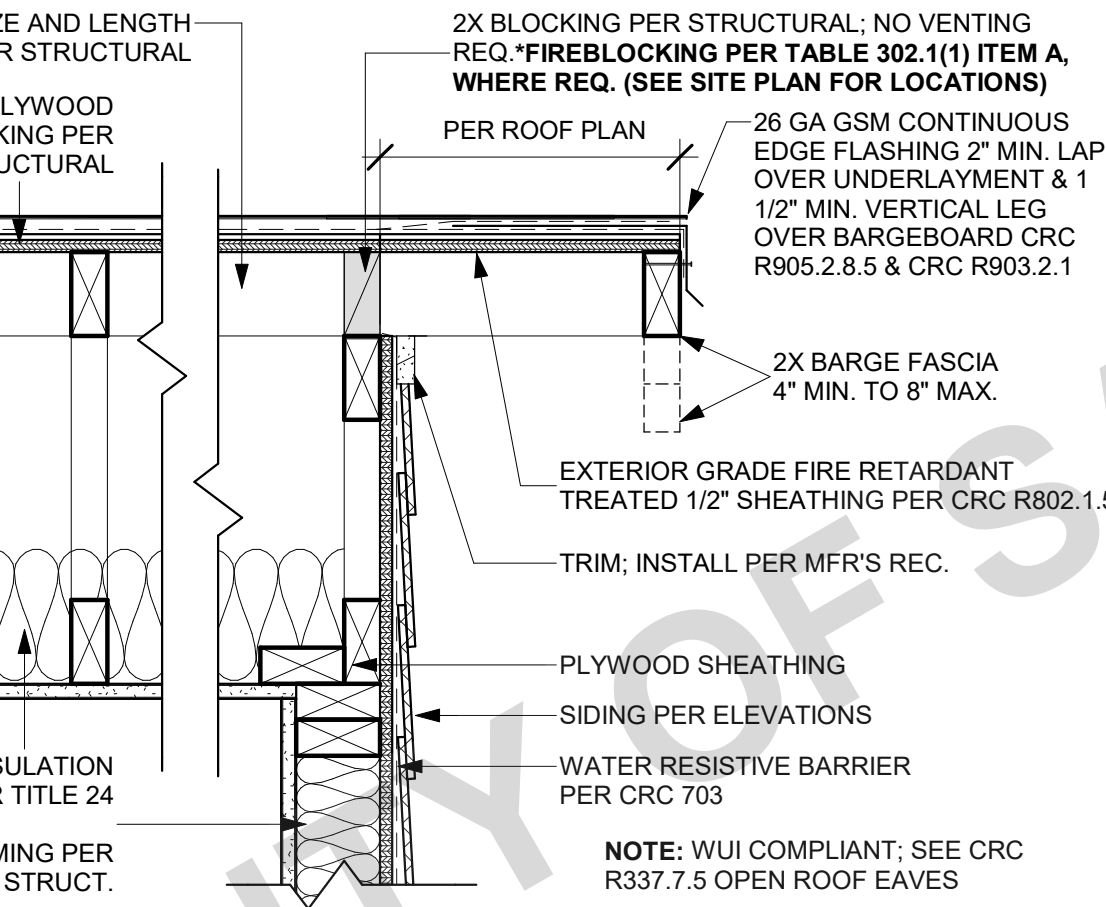
### 21 TYP. EAVE

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

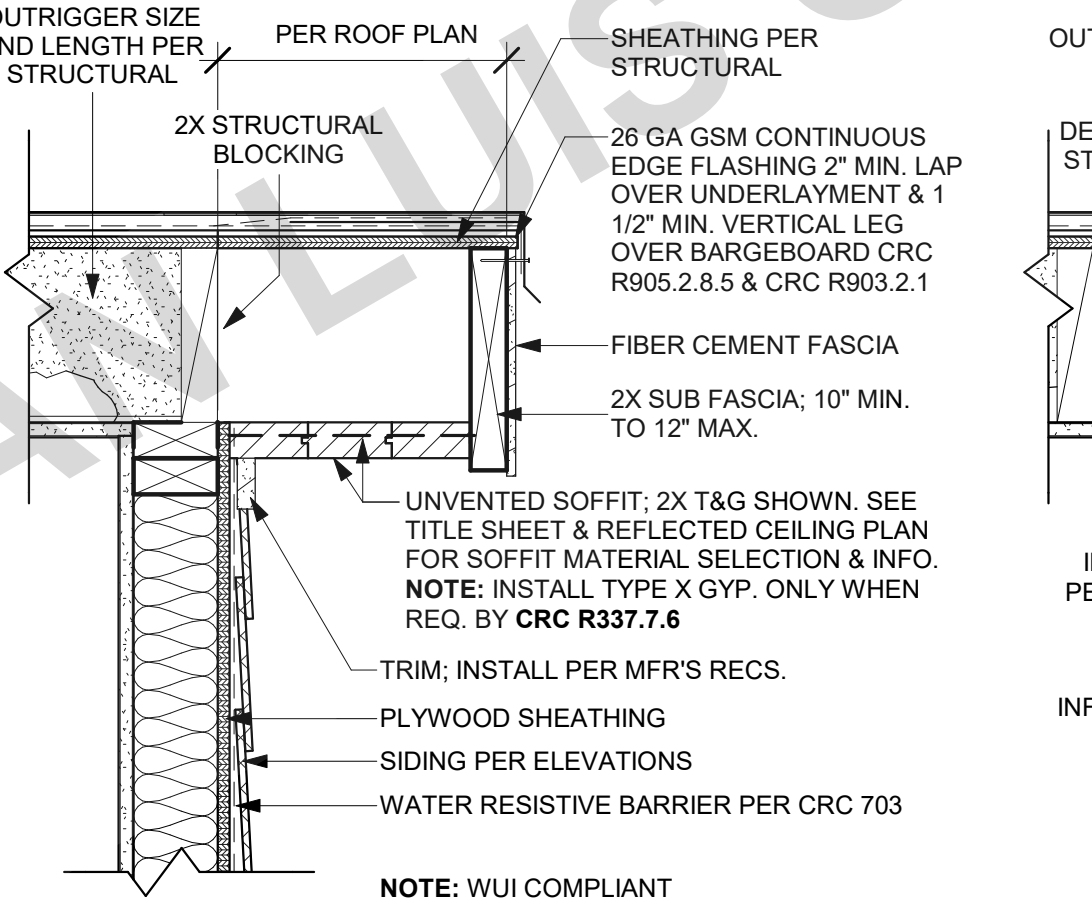
### RAKE OPTION B - ENCLOSED



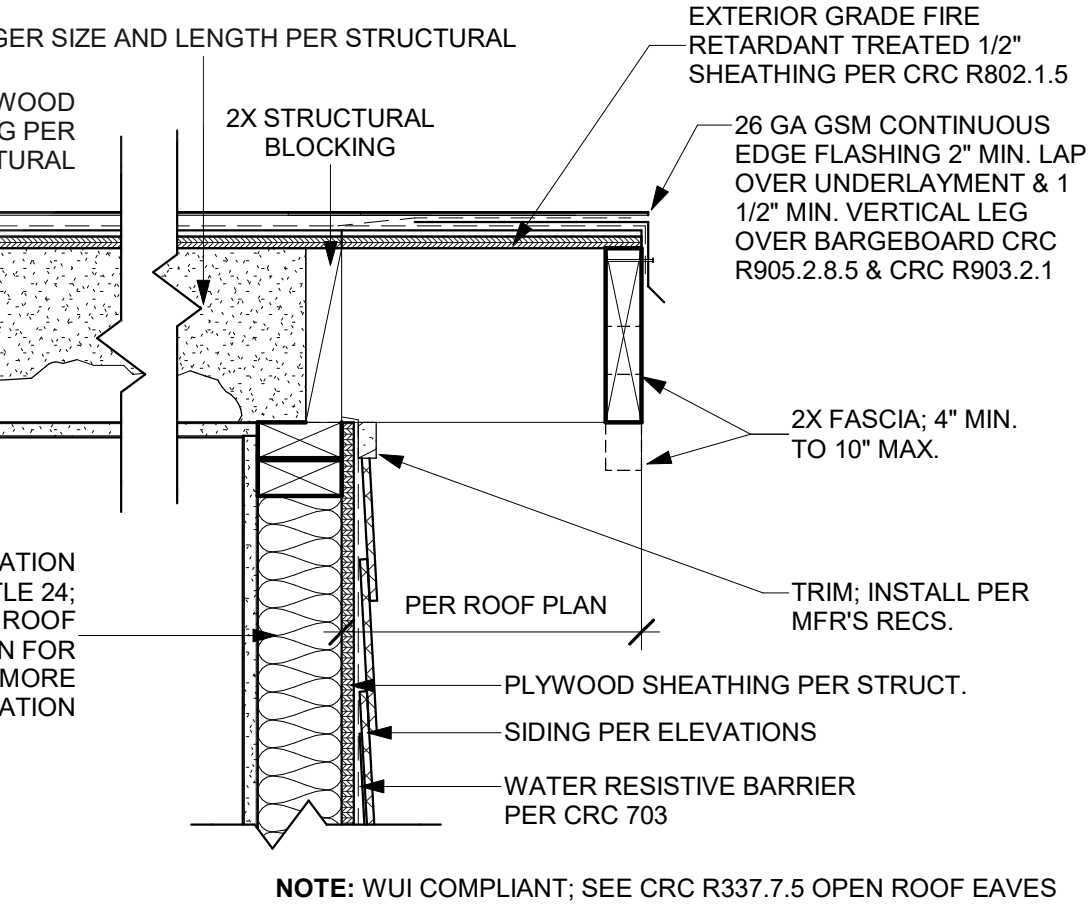
### RAKE OPTION A - OPEN EXPOSED



### RAKE OPTION B - ENCLOSED



### RAKE OPTION A - OPEN EXPOSED

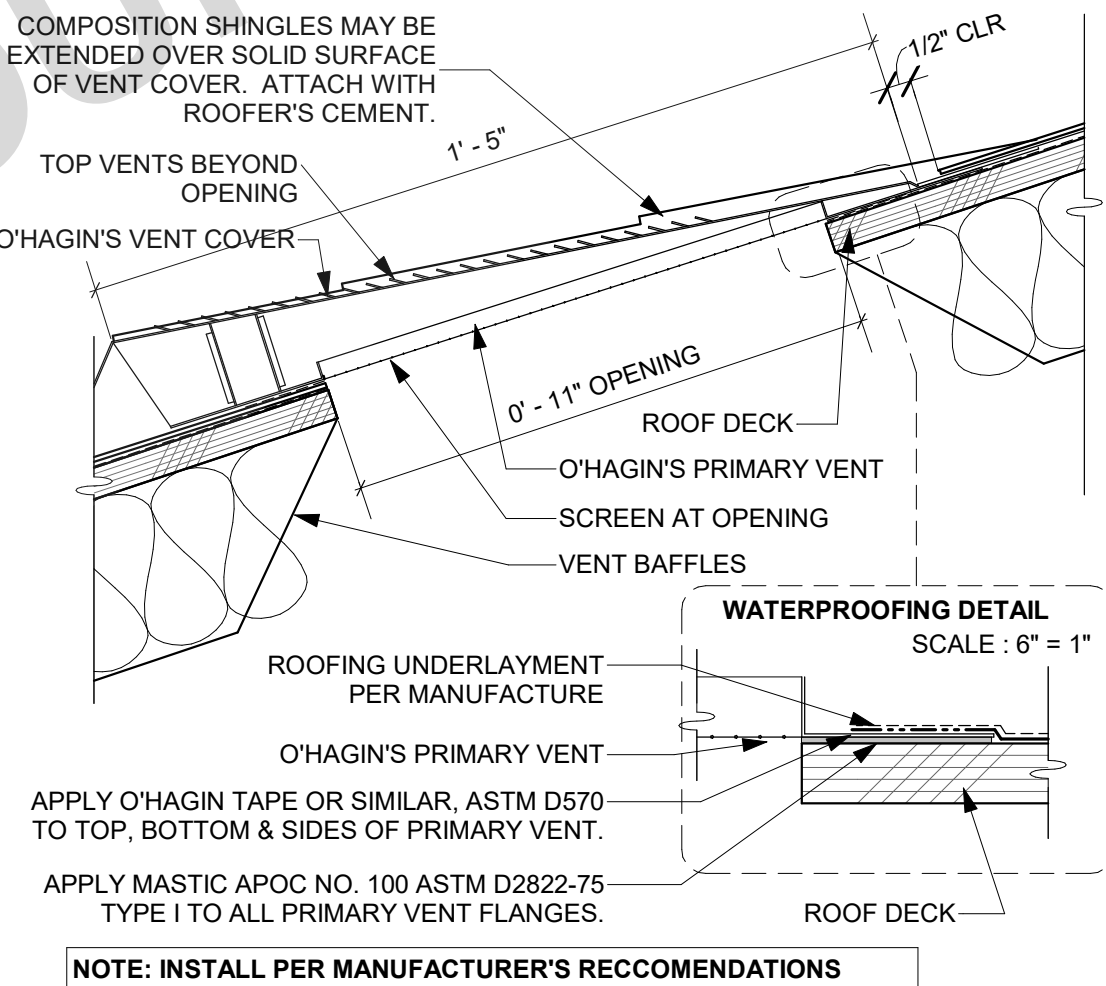


### 42 RAKE @ ATTIC (WHERE APPLICABLE)

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

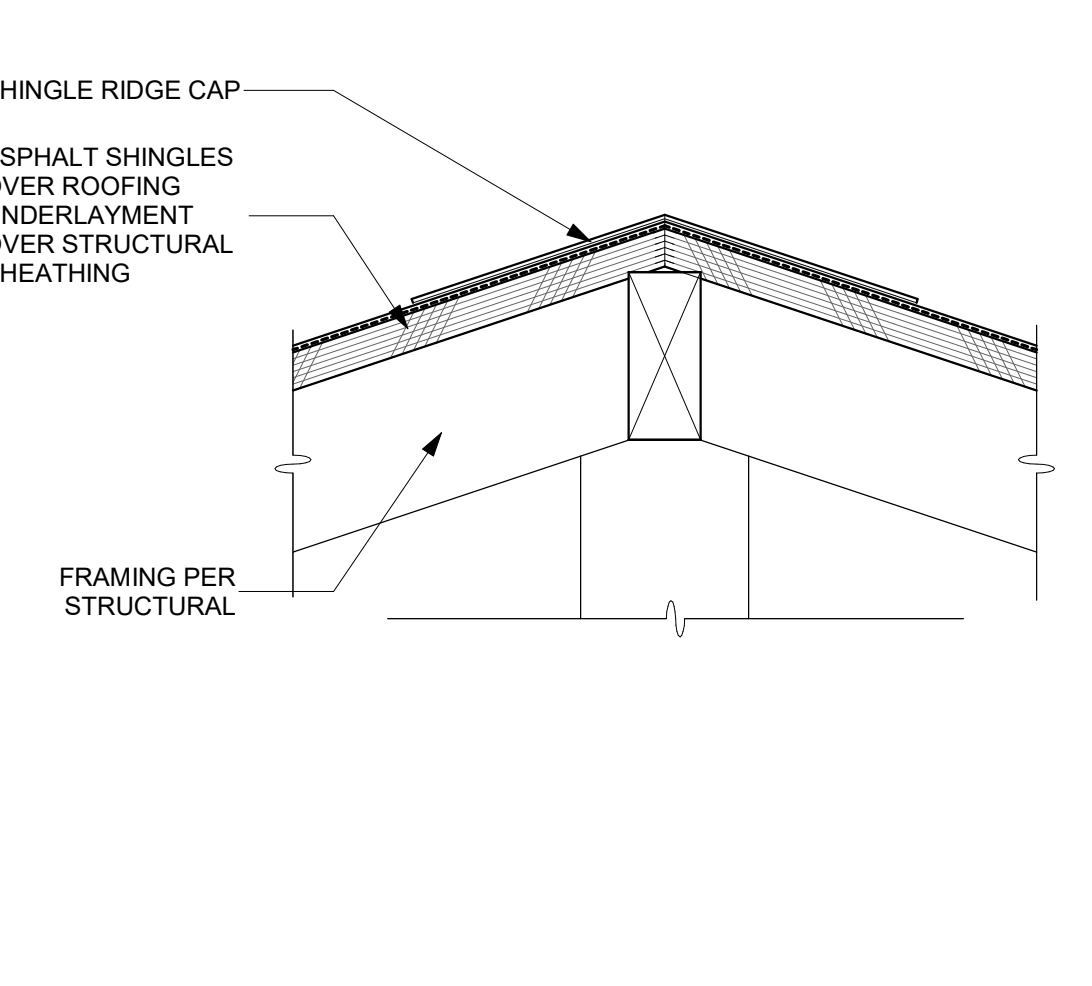
### 22 TYP. RAKE

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



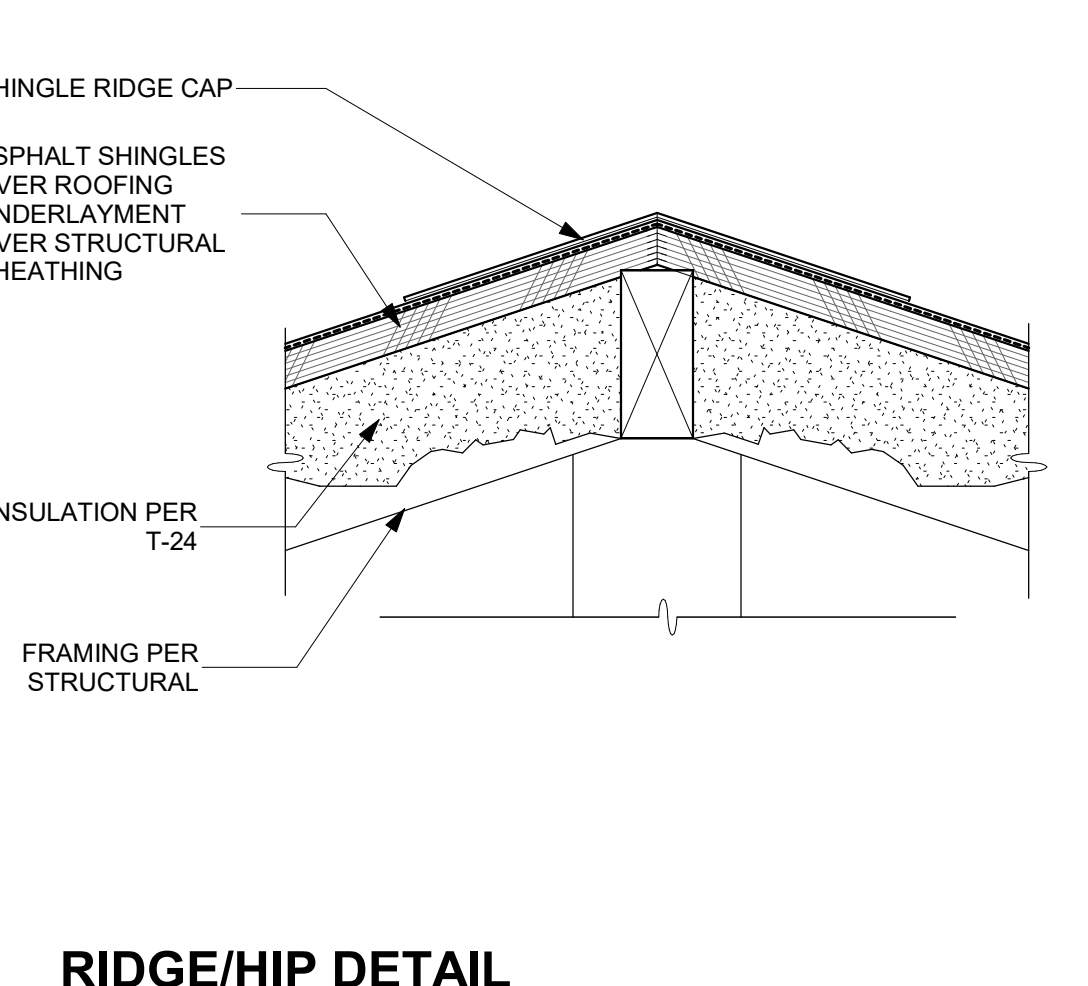
### 33 O'HAGIN ROOF VENT

SCALE: 3" = 1'-0"



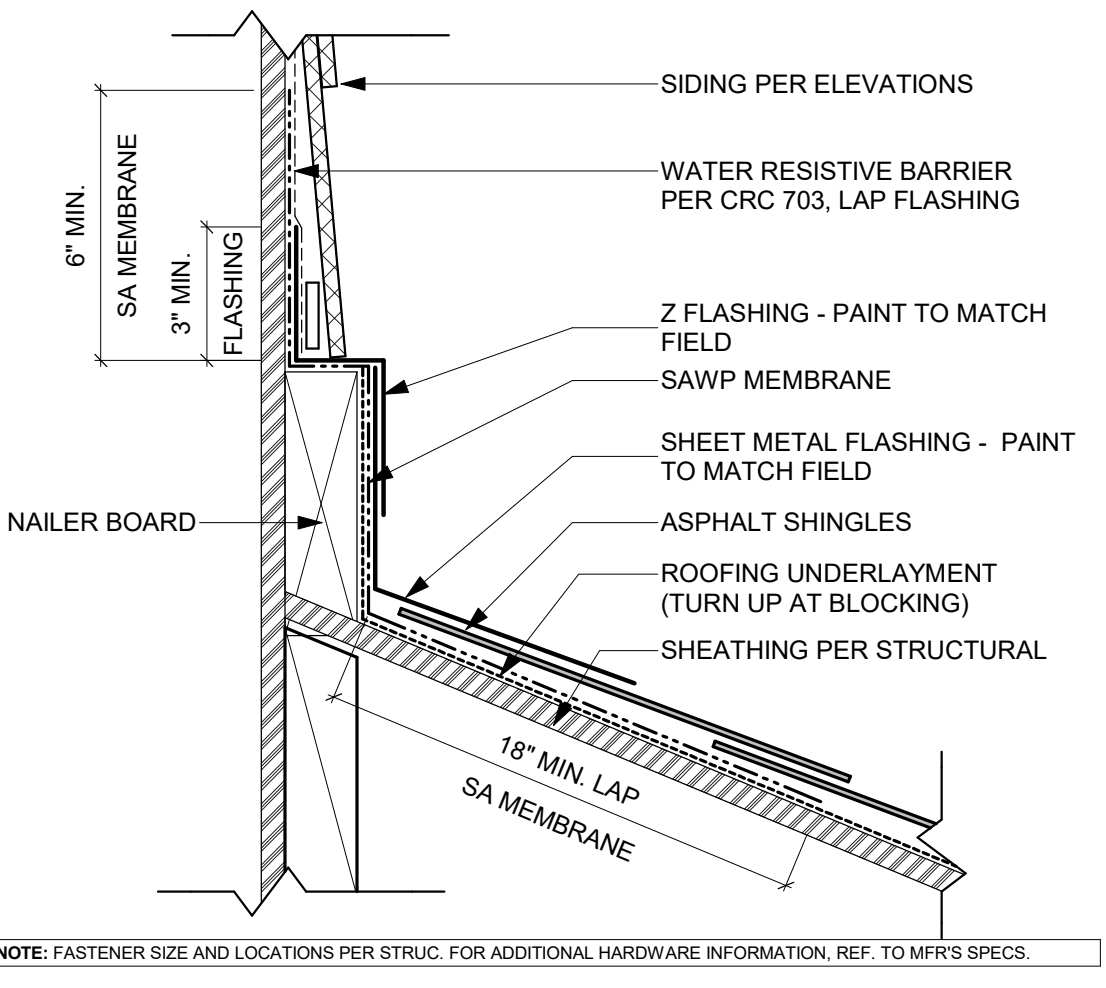
### 23 TYPICAL RIDGE/HIP DETAIL

SCALE: 3" = 1'-0"



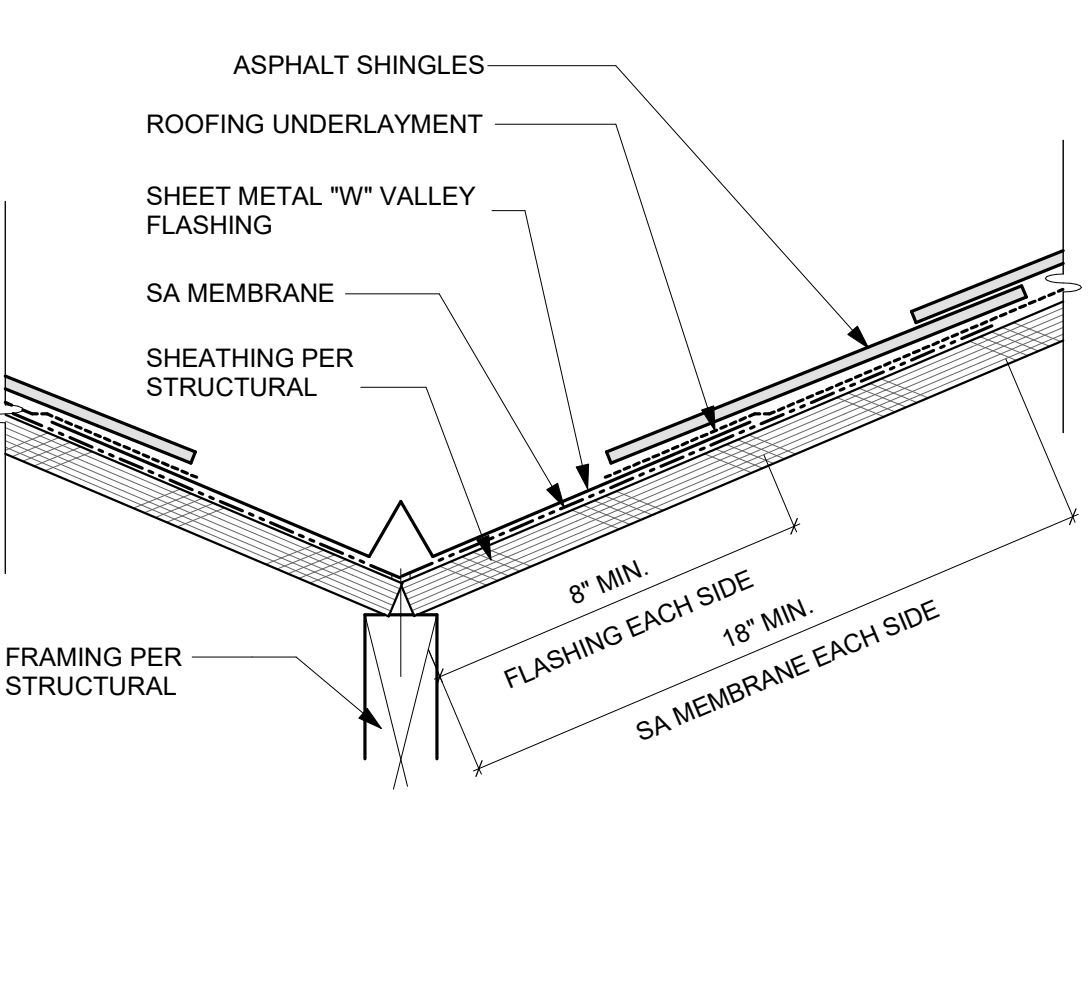
### 13 @ INSULATION

SCALE: 3" = 1'-0"



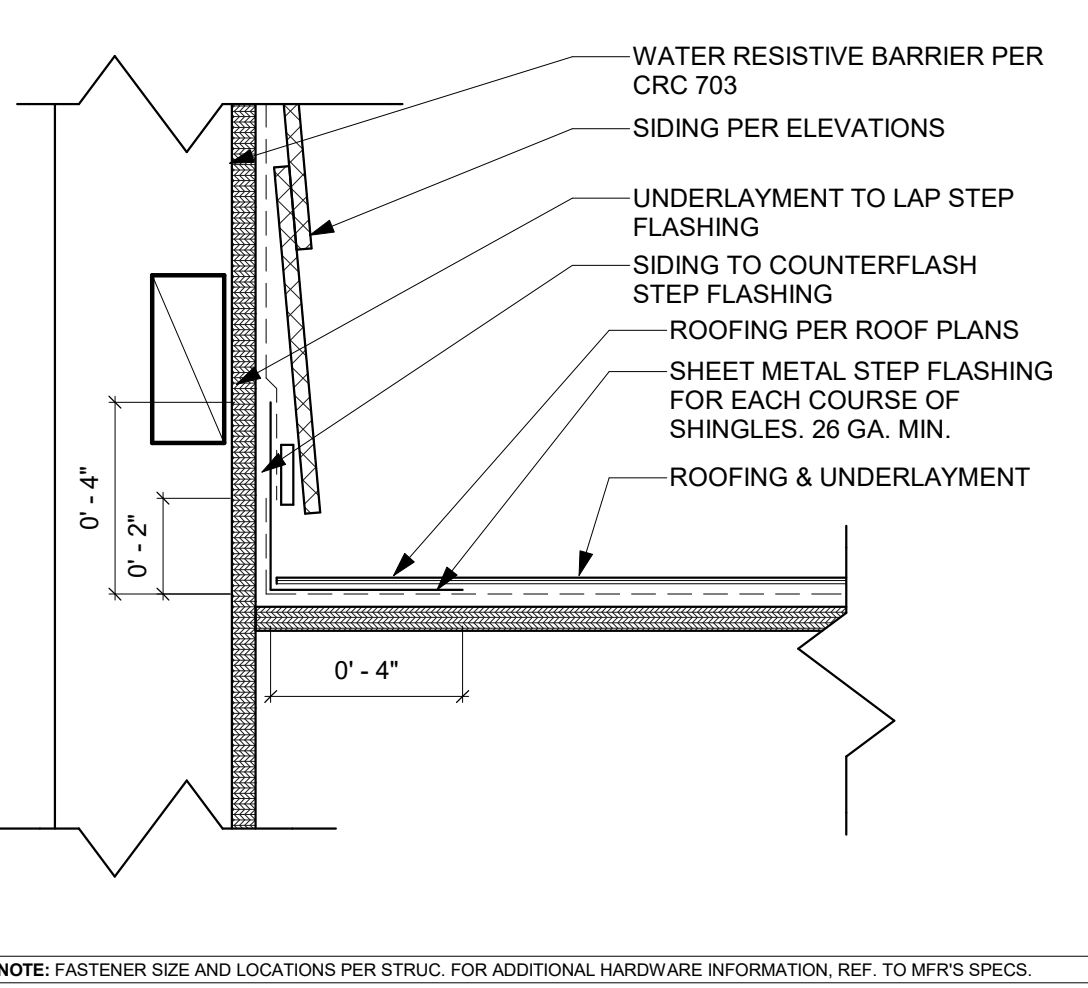
### 34 HEADWALL

SCALE: 3" = 1'-0"



### 24 TYPICAL VALLEY DETAIL

SCALE: 3" = 1'-0"



### 14 SIDE WALL

SCALE: 3" = 1'-0"

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A-933

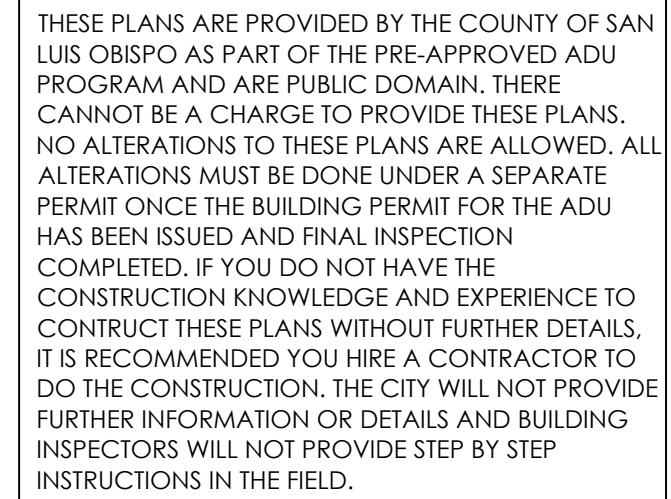


SYMBOLS			
	DETAIL REFERENCE BUBBLE WITH LEADER		INDICATES SHEAR WALL TYPE AND LENGTH, PER SHEAR WALL SCHEDULE
	DETAIL REFERENCE BUBBLE		INDICATES SPAN AND DIRECTION OF PREFABRICATED ROOF TRUSS (BY OTHERS)
	FULL HEIGHT SECTION INDICATOR		INDICATES SPAN AND DIRECTION OF ROOF RAFTER OR FLOOR JOIST WITH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

## WALL TYPES

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

SHEET INDEX	
S-101	SHEET INDEX, ABBREVIATION & SYMBOLS
S-102	GENERAL NOTES
S-103	GENERAL NOTES, SPECIAL INSPECTION & TESTS
S-201	FARMHOUSE PLANS
S-301	TYPICAL CONCRETE DETAILS
S-311	CONCRETE DETAILS
S-312	CONCRETE DETAILS
S-401	TYPICAL WOOD DETAILS
S-402	TYPICAL WOOD DETAILS
S-403	TYPICAL WOOD DETAILS
S-404	TYPICAL WOOD DETAILS
S-411	FLOOR FRAMING DETAILS
S-421	ROOF FRAMING DETAILS



## SHEET INDEX, ABBREVIATION & SYMBOLS

S-101







REQUIRED VERIFICATION AND INSPECTIONS

WOOD CODE CHAPTER 17 AND REFERENCED 2018 NDS AND AWC SDPWS-2015			
SPECIAL INSPECTION OR TEST	CONTINUOUS	PERIODIC	CBC REFERENCE
1. HIGH LOAD DIAPHRAGM WOOD STRUCTURAL PANELS - VERIFY THE FOLLOWING: - GRADE - THICKNESS - NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES - NAIL OR STAPLE DIAMETER AND LENGTH - NUMBER OF FASTENER LINES - SPACING BETWEEN FASTENERS IN EACH LINE - SPACING BETWEEN FASTENERS AT EDGE MARGINS	—	X	1705.5.1 2306.2
2. FIELD GLUING OPERATIONS OF ELEMENTS OF THE SEISMIC FORCE RESISTING SYSTEM.	X	—	1705.13.2
3. WOOD LATERAL FORCE-RESISTING SYSTEM WITH FASTENER SPACING OF THE SHEATHING LESS THAN 4" O.C. - WOOD SHEAR WALLS - WOOD DIHRAGMS - DRAG STRUTS - SHEAR PANELS - HOLD-DOWNS	—	X	1705.13.2
4. WOOD LATERAL FORCE-RESISTING SYSTEM WITH FASTENER SPACING OF THE SHEATHING GREATER THAN 4" O.C (NOT REQUIRED) - WOOD SHEAR WALLS - WOOD DIAPHRAGMS - DRAG STRUTS - SHEAR PANELS - HOLD-DOWNS	—	—	1705.13.2
5. METAL PLATE CONNECTED WOOD TRUSSES SPANNING 40 FEET OR GREATER - TEMPORARY INSTALLATION RESTRAINT/BRACING - PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING IN ACCORDANCE WITH APPROVED TRUSS SUBMITTAL PACKAGE	—	X	1705.5.2

SOILS CODE TABLE 1705.6			
SPECIAL INSPECTION OR TEST	CONTINUOUS	PERIODIC	
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	—	X	
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	—	X	
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	—	X	
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.		X	—
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	—		X

CONCRETE CONSTRUCTION CODE TABLE 1705.3			
SPECIAL INSPECTION OR TEST	CONTINUOUS	PERIODIC	REFERENCED STANDARD
3. INSPECT ANCHORS CAST IN CONCRETE	—	X	ACI 318: 26.7
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS (a) (a) ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS (b) MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	X	X	ACI 318: 26.7.1 ACI 318: 26.7.1

STATEMENT OF SPECIAL INSPECTIONS

- THIS STATEMENT OF SPECIAL INSPECTIONS HAS BEEN PREPARED PURSUANT TO SECTION 1704.3 OF THE CODE. THIS SECTION DETAILS BOTH REQUIRED SPECIAL INSPECTIONS AND TESTS INCLUDING TESTING PER SECTION 1705 OF THE CODE. THE FOLLOWING SHALL BE OBSERVED DURING THEIR IMPLEMENTATION:
  - GENERAL:
    - STRUCTURAL VERIFICATIONS, INSPECTIONS AND TESTS SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 17 OF THE CODE AND/OR THE APPLICABLE REFERENCE STANDARD.
  - OWNER REQUIREMENTS:
    - THE OWNER OR OWNER'S AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN SECTION 1705 OF THE CODE AND IN THIS STATEMENT OF INSPECTIONS.
  - SPECIAL INSPECTOR QUALIFICATIONS:
    - THE SPECIAL INSPECTIONS SHALL PROVIDE WRITTEN DOCUMENTATION TO THE BUILDING OFFICIAL DEMONSTRATING HIS OR HER COMPETENCE AND RELEVANT EXPERIENCE OR TRAINING. THE EXPERIENCE OR TRAINING SHALL BE CONSIDERED RELEVANT WHEN THE DOCUMENTED EXPERIENCE OR TRAINING IS RELATED IN COMPLEXITY TO THE SAME TYPE OF SPECIAL INSPECTION ACTIVITIES FOR PROJECTS OF SIMILAR COMPLEXITY AND MATERIAL QUANTITIES.
  - CONTRACTOR REQUIREMENTS:
    - SPECIAL INSPECTION IS IN ADDITION TO THE CONTRACTOR'S QUALITY CONTROL INSPECTIONS AND TESTING. THE CONTRACTOR'S QUALITY CONTROL INSPECTIONS AND TESTING SHALL OCCUR PRIOR TO SPECIAL INSPECTION AND REPORTS SHALL BE AVAILABLE TO THE SPECIAL INSPECTOR.
    - THE CONTRACTOR SHALL ENSURE THAT THE WORK FOR WHICH SPECIAL INSPECTION IS REQUIRED REMAINS ACCESSIBLE AND EXPOSED FOR SPECIAL INSPECTION PURPOSES UNTIL COMPLETION OF THE REQUIRED SPECIAL INSPECTION.
    - ANY CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF THE MAIN WIND OR SEISMIC FORCE RESISTING SYSTEM SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL INSPECTION REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.
  - SPECIAL INSPECTOR REPORT REQUIREMENTS:
    - THE SPECIAL INSPECTOR SHALL KEEP RECORD OF INSPECTIONS
    - THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.
    - REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS.
    - DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
    - IF NOT CORRECTED DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD PRIOR TO THE COMPLETION OF THAT PHASE OF WORK.
    - A FINAL REPORT DOCUMENTING SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED SHALL BE SUBMITTED TO THE BUILDING OFFICIAL.
- WOOD BUILDINGS
  - WOOD STRUCTURAL PANELS (SHEATHING) SHALL BE IDENTIFIED BY THE APA TRADEMARK.

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:
  - STEEL BUILDINGS (OR STEEL ELEMENTS IN OTHER BUILDINGS)
    - FOR GENERAL STEEL BUILDINGS OR ELEMENTS THE FABRICATOR SHALL BE AN AISC CERTIFIED FABRICATOR IN ACCORDANCE WITH THE AISC CERTIFICATION PROGRAM FOR STRUCTURAL STEEL FABRICATORS (AISC 201-06).
    - OTHER ACCREDITATION DEEMED ACCEPTABLE BY THE AUTHORITY HAVING JURISDICTION.
  - IF FABRICATION IS PERFORMED BY AN APPROVED FABRICATOR A CERTIFICATE OF COMPLIANCE MUST BE PROVIDED TO THE BUILDING INSPECTOR THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE FABRICATOR ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS.
  - IF FABRICATION IS NOT PERFORMED BY AN APPROVED FABRICATOR WELDING INSPECTION REPORTS MUST BE SUBMITTED TO THE BUILDING OFFICIAL BY AN APPROVED TESTING AGENCY.
    - NONDESTRUCTIVE TESTING (NDT) MAY BE PERFORMED BY THE FABRICATOR, HOWEVER THE QA AGENCY SHALL REVIEW THE FABRICATOR'S NDT REPORTS.
- WOOD BUILDINGS
  - WOOD STRUCTURAL PANELS (SHEATHING) SHALL BE IDENTIFIED BY THE APA TRADEMARK.

PRE-FABRICATED WOOD TRUSS NOTES

- THE DESIGN OF METAL PLATE CONNECTED WOOD TRUSSES SHALL BE IN ACCORDANCE WITH THE FOLLOWING
  - CODES AND STANDARDS:
    - THE GOVERNING CODE LISTED IN THE PROJECT GENERAL NOTES
    - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE 7-16)
    - NATIONAL DESIGN STANDARD FOR WOOD CONSTRUCTION AND SUPPLEMENT (ANSI/AWC NDS-2018)
    - SPECIAL DESIGN PROVISIONS FOR WIND & SEISMIC (AWC SDPWS-2015)
    - THE NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION (ANSI/TPI 1-2014)
  - DESIGN CRITERIA:
    - TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING MINIMUM LOADS AND OTHER LOADS INDICATED ON THE CONSTRUCTION DOCUMENTS (ATTIC MECHANICAL UNITS, ETC.)

ROOF TRUSS LOADING:  
ASPHALT SHINGLE W/ GYP CEILING:  
TOP-CHORD DEAD LOAD: 13.0 PSF \* (11.9 PSF SUPERIMPOSED)  
BOT CHORD DEAD LOAD: 8.3 PSF (6.7 PSF SUPERIMPOSED)  
ROOF - LIVE LOAD: 20 PSF  
ASPHALT SHINGLE W/ STUCCO CEILING:  
TOP-CHORD DEAD LOAD: 13.0 PSF \* (11.9 PSF SUPERIMPOSED)  
BOT CHORD DEAD LOAD: 12.7 PSF (11.1 PSF SUPERIMPOSED)  
ROOF - LIVE LOAD: 20 PSF  
  
DECKING CRITERIA:  
DEAD + LIVE LOAD L/240  
LIVE LOAD ONLY L/360  
  
\*INCLUDES 4 PSF ALLOWANCE FOR PV PANELS
    - ( ) INDICATES HORIZONTAL SEISMIC/WIND LOAD ON COLLECTOR TRUSSES. THE TRUSS DESIGNER SHALL DESIGN FOR THE TRUSSES FOR THE INDICATED HORIZONTAL LOAD ACTING IN BOTH THE TOP AND BOTTOM TRUSS CHORDS AND FOR THE TRANSFER OF THE FORCE TO THE CHORDS THROUGH THE WEB.
- CONTRACTOR REQUIREMENTS:
  - THE CONTRACTOR SHALL MEET ALL THE REQUIREMENTS LISTED IN SECTION 2.3.4 OF ANSI/TPI 1-2014 INCLUDING THE FOLLOWING:
    - MEANS AND METHODS: THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, PROGRAMS AND SAFETY IN CONNECTION WITH THE RECEIPT, STORAGE, HANDLING, INSTALLATION, RESTRAINING, AND BRACING OF THE TRUSSES. REFER TO THE GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES (BCSI-81)
    - TRUSS INSTALLATION SHALL COMPLY WITH INSTALLATION TOLERANCES SHOWN IN BCSI-81
    - TEMPORARY INSTALLATION RESTRAINT/BRACING FOR THE TRUSS SYSTEM AND THE PERMANENT TRUSS SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH BCSI-82.
    - CONSTRUCTION LOADING ON TRUSSES SHALL BE DONE IN ACCORDANCE WITH BCSI-84.
    - TRUSS DAMAGE, JOBSITE MODIFICATIONS & INSTALLATION ERRORS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE EOR AND THE TRUSS DESIGNER, REFERENCE BCSI-85.
    - SUBMIT THE DRAWINGS FROM THE TRUSS DESIGNER/MANUFACTURER TO THE BUILDING DEPARTMENT PRIOR TO FABRICATION FOR APPROVAL. A COPY OF THIS SUBMITTAL SHALL BE PROVIDED TO THE ENGINEER OF RECORD FOR REVIEW OF GENERAL CONFORMANCE TO THE DESIGN INTENT. THE CONTRACTOR SHALL INCORPORATE THE TIME REQUIRED FOR THE SUBMITTAL TO BE REVIEWED, STAMPED AND APPROVED BY ALL PARTIES AND SHALL HAVE THE APPROVED TRUSS PLANS ON THE JOB SITE PRIOR TO FOUNDATION INSPECTION.
  - TRUSS DESIGNER REQUIREMENTS:
    - THE TRUSS DESIGNER SHALL MEET ALL THE REQUIREMENTS LISTED IN SECTION 2.3.5 OF ANSI/TPI 1-2014 INCLUDING THE FOLLOWING:
      - TRUSS DESIGNER SHALL SUPERVISE THE PREPARATION OF THE TRUSS DESIGN DRAWINGS WHICH SHALL CONTAIN THE INFORMATION LISTED IN SECTION 2.3.5.5 OF ANSI/TPI 1-2014. THIS INCLUDES ALL TRUSS TO TRUSS CONNECTIONS, AND DETAILS FOR THE "CALIFORNIA FILL" AREAS.
      - TRUSS DESIGNER SHALL COMPLY WITH THE REFERENCED CODE AND DESIGN CRITERIA ABOVE.
      - TRUSS DESIGNER SHALL SHOW ALL HANGERS, BRACING AND RESTRAINTS AS WELL AS METHOD OF RESTRAINT/BRACING ON THE TRUSS PLANS TO MEET ANY SEISMIC AND WIND REQUIREMENTS OF THE CODE.
      - SUBMIT TRUSS DESIGN DRAWINGS INCLUDING ALL RELEVANT DETAILS FOR THE FABRICATION OF THE TRUSSES AND PREPARE CALCULATIONS. ALL PLANS, DETAILS AND CALCULATIONS FOR THE TRUSSES SHALL BE STAMPED AND SIGNED BY A LICENSED PROFESSIONAL ENGINEER (CIVIL OR STRUCTURAL), LICENSED TO PRACTICE IN THE STATE OF CALIFORNIA.

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 B REFERENCE A
ROOF	5	EXPOSURE 1	REFER TO TYPICAL DIAPHRAGM SCHEDULE			APA 2022 CBC 2303.1.5 (DOC PS 1-09 OR PS 2-10)
FLOOR	5	EXPOSURE 1				APA
WALL D	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 (APA):
    - VOLUNTARY PRODUCT STANDARD, STRUCTURAL PLYWOOD, PS 1-09
    - VOLUNTARY PRODUCT STANDARD, PERFORMANCE STANDARD FOR WOOD-BASED STRUCTURAL-USE PANELS, PS 2-10
  - WOOD STRUCTURAL PANELS SHALL BE IDENTIFIED BY THE APA TRADEMARK INDICATING CONFORMANCE TO THE APPLICABLE VOLUNTARY STANDARD
  - 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.
    - EXCEPTION: WOOD STRUCTURAL PANEL ROOF SHEATHING EXPOSED TO THE OUTDOORS ON THE UNDERSIDE IS PERMITTED TO BE "EXPOSURE 1" TYPE.
    - WOOD STRUCTURAL PANELS TO BE USED AS SIDING SHALL COMPLY WITH ANSI/APA PRP-210.
  - 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:
  - TRANSPORTATION
    - IN TRANSPORTING PANELS ON OPEN TRUCK BEDS, COVER THE BUNDLES WITH A TARP.
  - STORAGE
    - ALWAYS STORE THE PANELS UNDER COVER WHENEVER POSSIBLE
    - WHEN STORING PANELS OUTSIDE STACK THEM ON A LEVEL SURFACE ON TOP OF STRINGERS OR OTHER BLOCKING, THREE STRINGERS MINIMUM.
    - NEVER LEAVE PANELS IN CONTACT WITH THE GROUND
    - COVER THE STACK WITH A PLASTIC TARP, ENSURING THAT THE BUNDLE IS WELL VENTILATED TO PREVENT MILDEW.
    - IF MOISTURE ABSORPTION IS EXPECTED, CUT THE STEEL BAND TO PREVENT DAMAGE
    - KEEP SANDED OR OTHER APPEARANCE GRADE PANELS AWAY FROM HIGH TRAFFIC AREAS
  - HANDLING
    - ALWAYS PROTECT ENDS AND EDGES, ESPECIALLY TONGUE AND GROOVE PRODUCTS, FROM PHYSICAL DAMAGE.
    - 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
  - ROOF AND FLOOR SHEATHING SHALL BE LAID WITH THE GRAIN OF THE OUTER PILES PERPENDICULAR TO THE FRAMING MEMBERS. SHALL BE CONTINUOUS OVER 2 JOIST BAYS MINIMUM AND END JOINTS SHALL BE JOINED OVER FRAMING AND STAGGERED. LEAVE A 1/8" GAP BETWEEN PANELS TO ALLOW FOR PANEL EXPANSION UNLESS RECOMMENDED OTHERWISE BY THE PANEL MANUF. REFER TO SPECIFIC DETAILS IN THE DRAWINGS FOR FURTHER PARAMETERS.
  - PLYWOOD OR OSB WALL SHEATHING MAY BE APPLIED VERTICALLY OR HORIZONTALLY. ALL END JOINTS BE JOINED OVER FRAMING AND STAGGERED.
- BLOCKING:
  - 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.
  - FLOOR: ALL FLOOR SHEATHING SHALL BE BLOCKED UNLESS SPECIFICALLY ALLOWED ON PLANS, WHERE PERMITTED TO BE UNBLOCKED, ALL UNBLOCKED EDGES SHALL BE TONGUE AND GROOVE.
  - WALLS: ALL SHEAR WALLS SHALL BE FULLY BLOCKED AT PLYWOOD EDGES.
- FASTENERS
  - USE SHEATHING NAILS SAME GAUGE AS COMMON WIRE NAILS WITH LENGTHS AT LEAST EQUAL TO SHEATHING THICKNESS PLUS REQUIRED PENETRATION PER AWS SDPWS TABLE 4.2A OR 4.3A (AS REQUIRED).
  - EQUIVALENT PNEUMATIC DRIVE NAILS OR STAPLES MAY BE USED IF FASTENER MANUFACTURER HAS RECEIVED ICC OR IAPMO APPROVAL FOR THE INTENDED USE. FASTENERS TO BE SUBSTITUTED SHALL BE EQUIVALENT IN LATERAL AND WITHDRAWAL STRENGTH TO THE SIZE OF COMMON NAIL SPECIFIED.
  - USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOB SITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD 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.
  - TYPICAL NAILING SHALL BE 10D AT 6" O.C. AT ALL SUPPORTED EDGES AND OVER SHEAR WALLS, AND 10D AT 12" O.C. AT ALL INTERMEDIATE SUPPORTS, UNLESS OTHERWISE NOTED. SEE PLANS AND REFER TO SHEAR WALL SCHEDULE.



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COUNTY OF SAN LUIS OBISPO  
ACCESSORY DWELLING UNIT

SAN LUIS OBISPO, CA

GENERAL NOTES, SPECIAL  
INSPECTION & TESTS

DATE  
11/20/2023  
SHEET



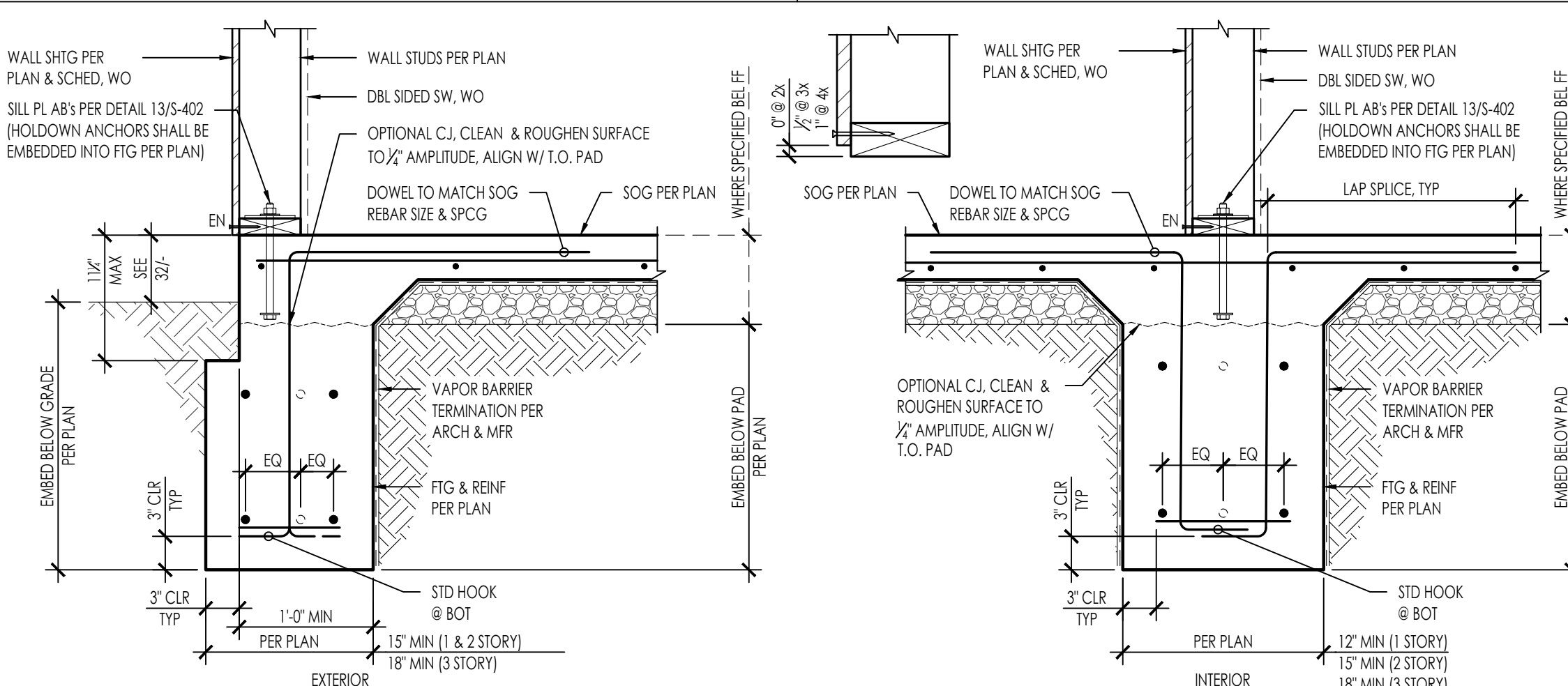
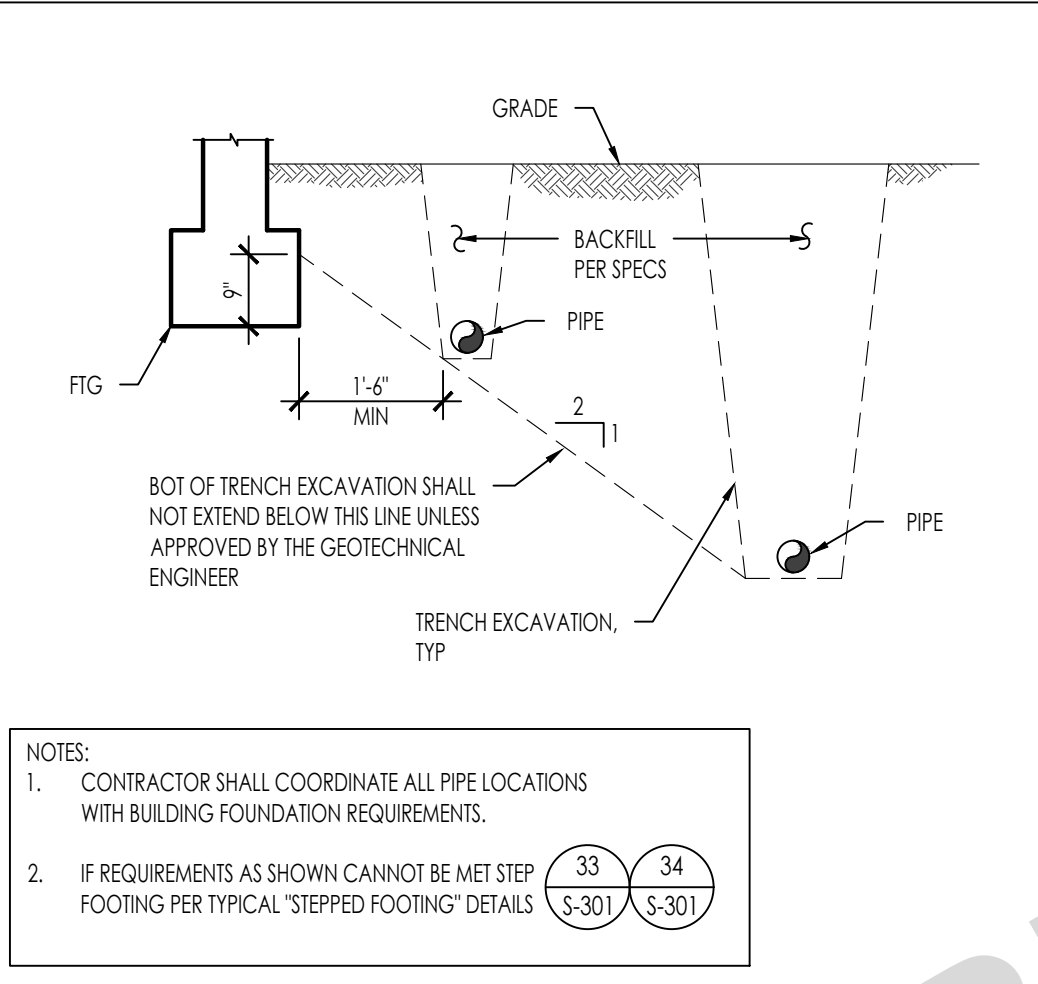
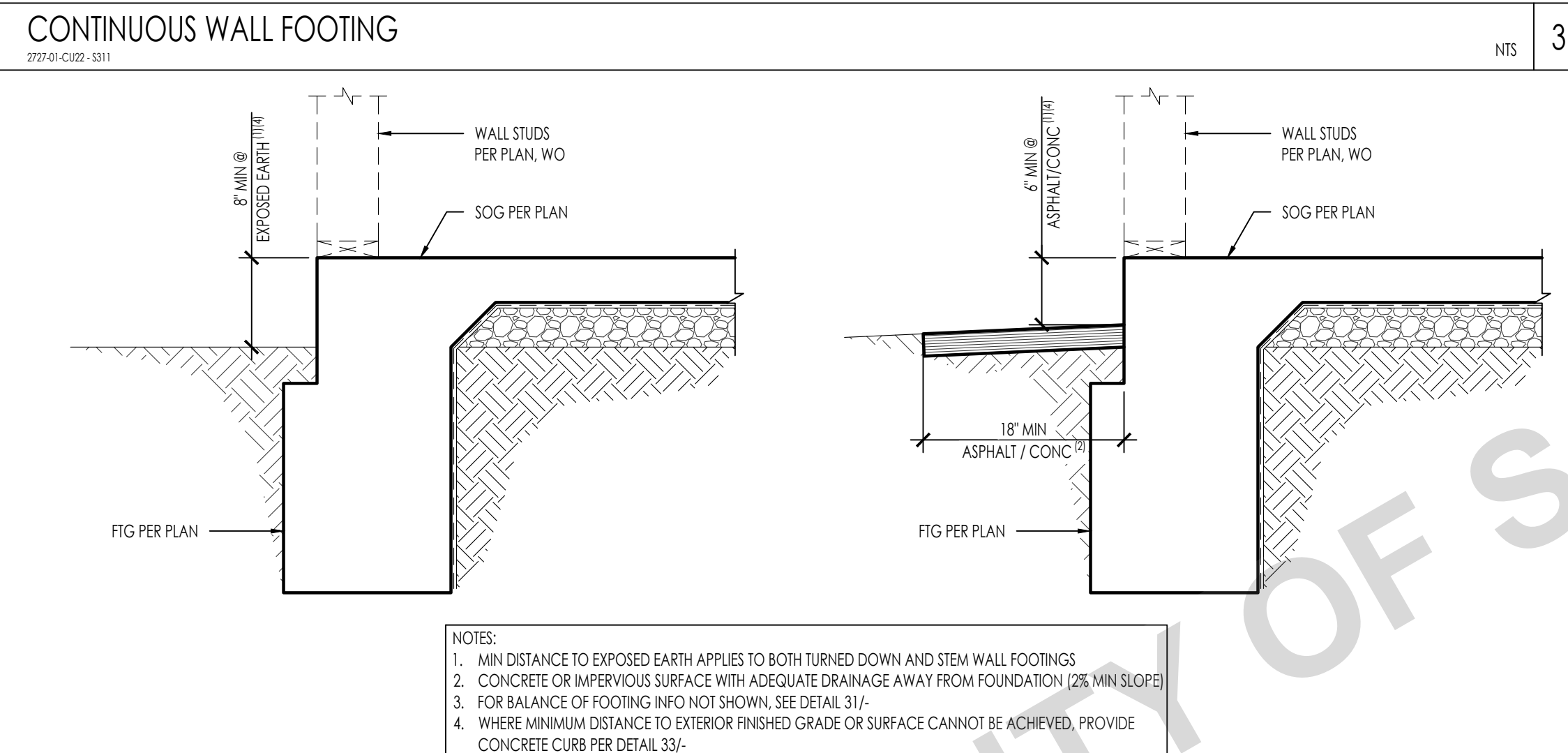
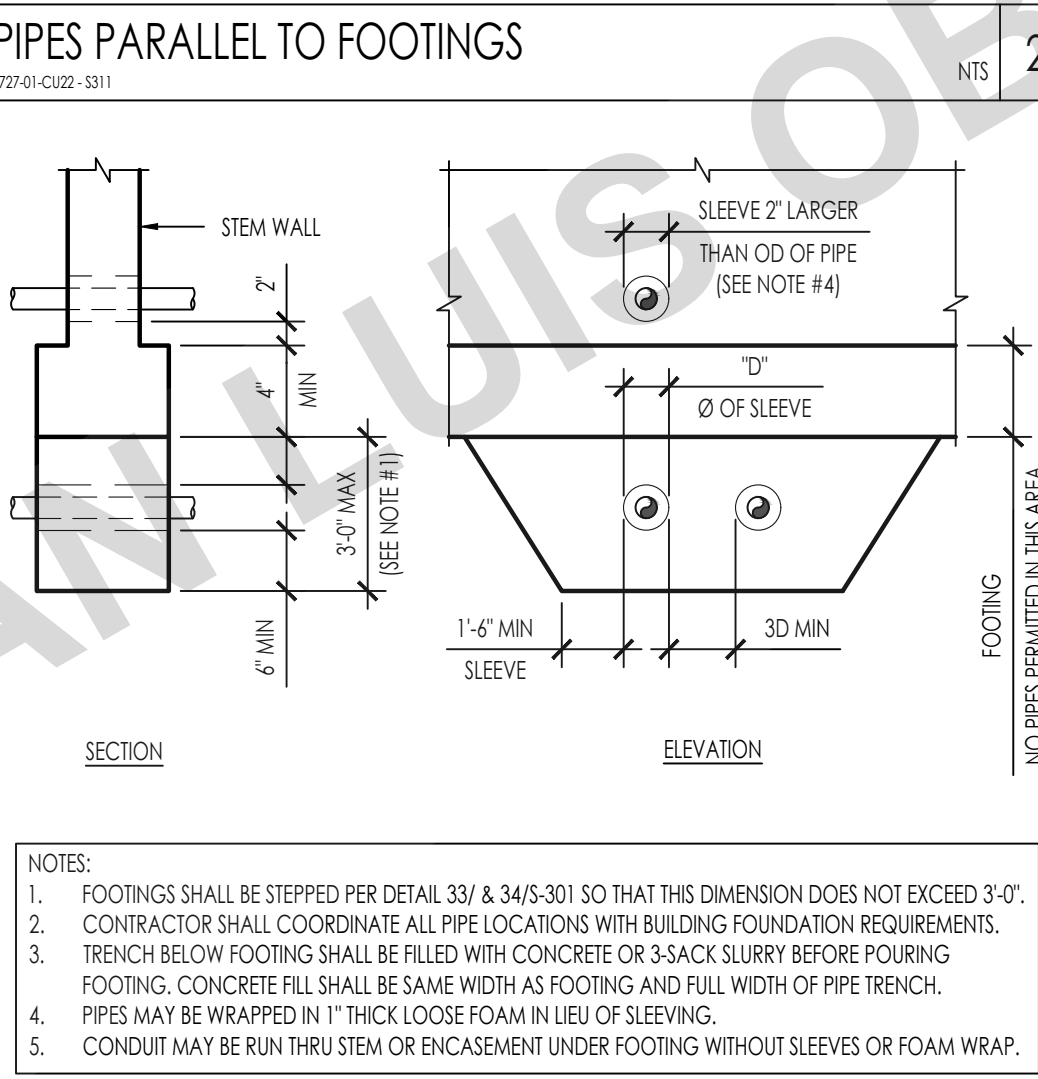
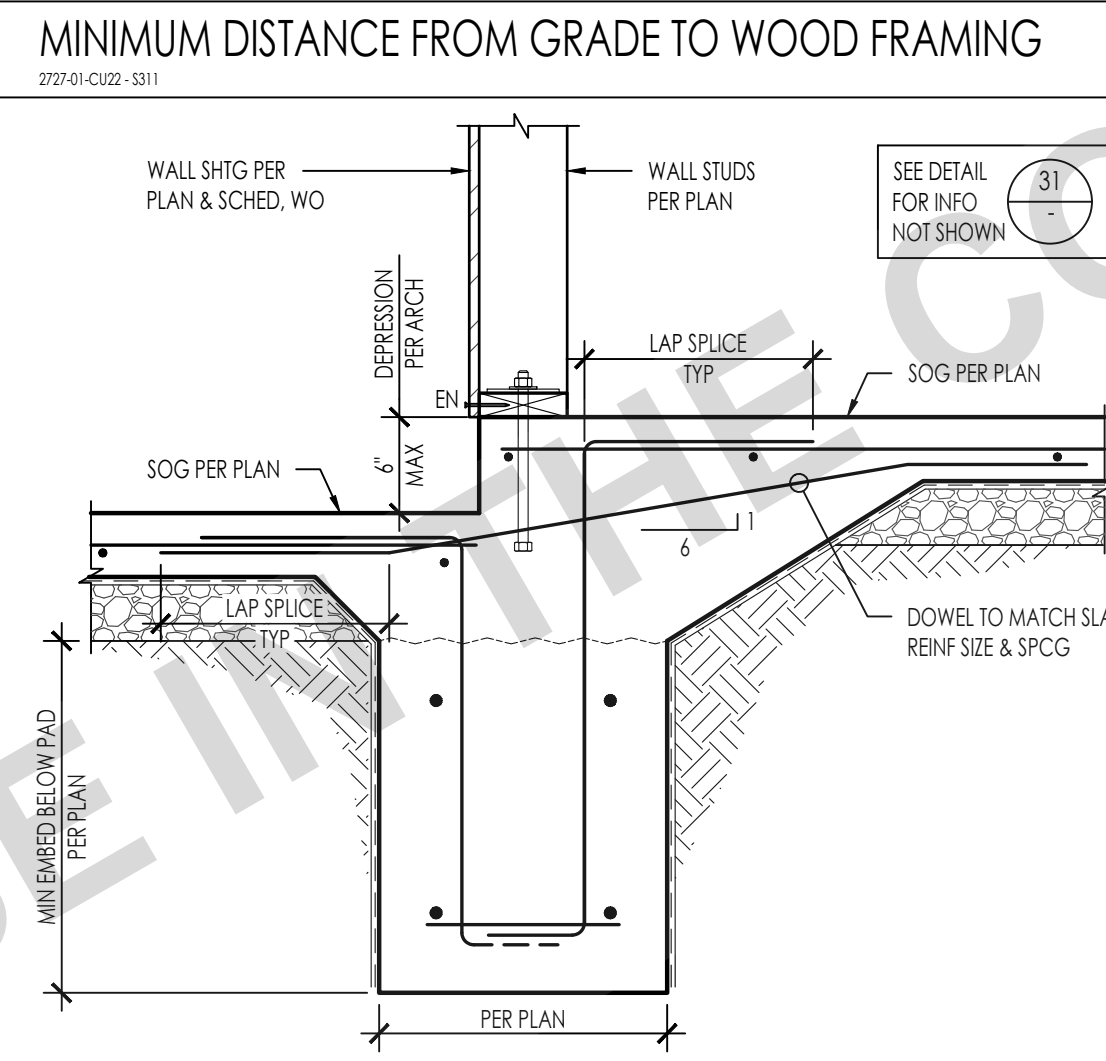
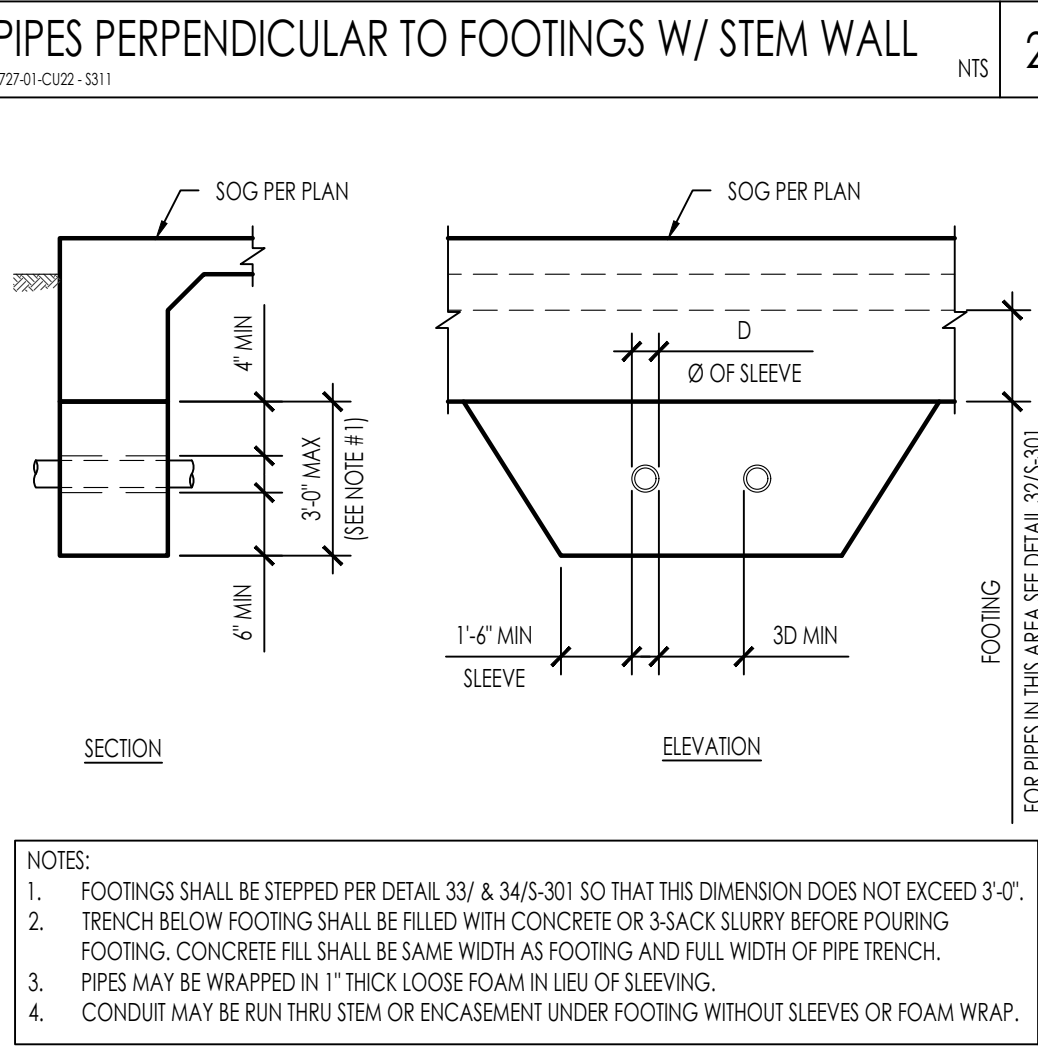

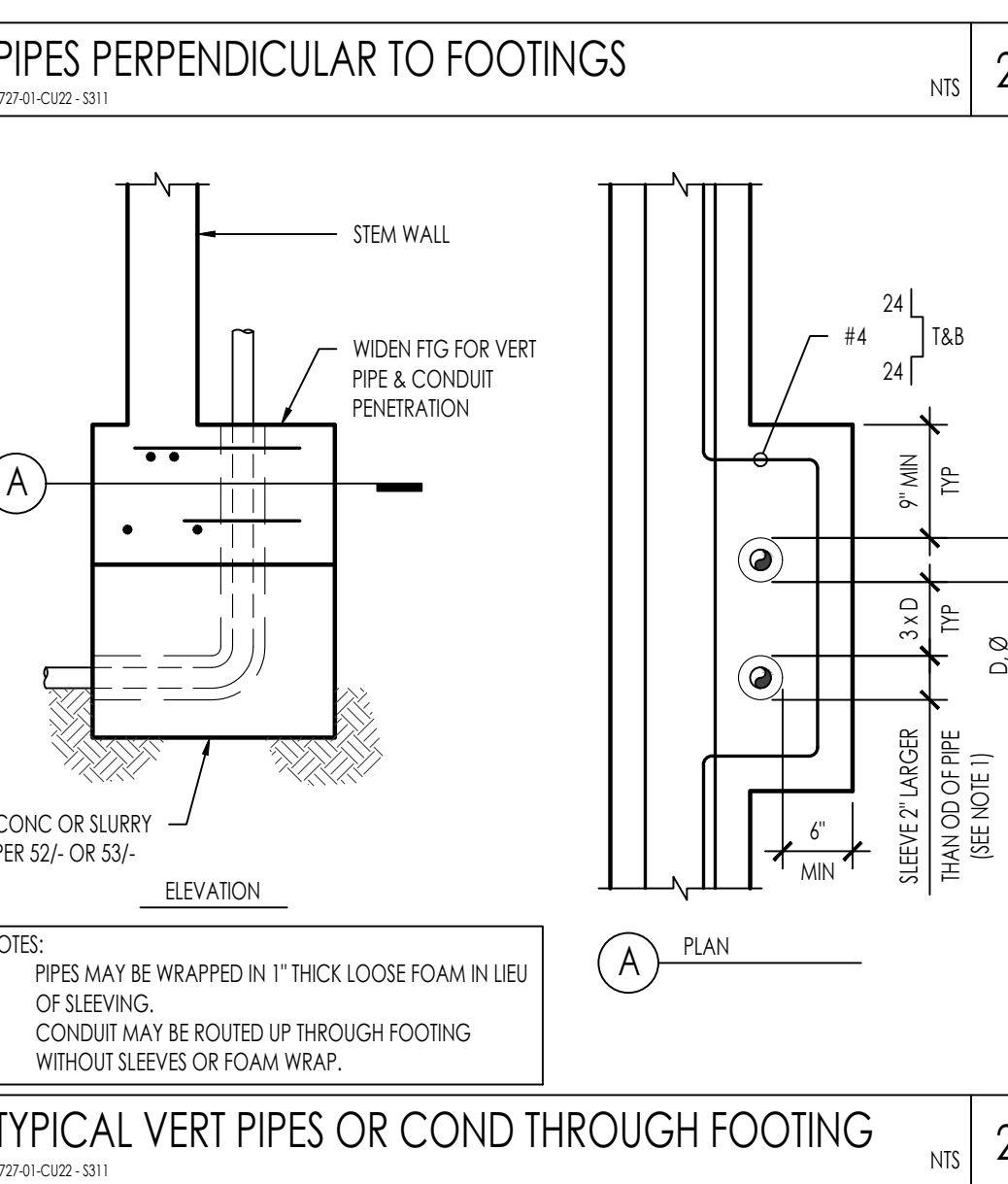









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	51	CONTINUOUS WALL FOOTING 2727-01-C102 - S311	NTS	31	PIPES PARALLEL TO FOOTINGS 2727-01-C102 - S311	NTS	21
							
	52	MINIMUM DISTANCE FROM GRADE TO WOOD FRAMING 2727-01-C102 - S311	NTS	32	PIPES PERPENDICULAR TO FOOTINGS W/ STEM WALL 2727-01-C102 - S311	NTS	22
							
	53	SOG DEPRESSION @ FTG 2727-01-C102 - S311	NTS	43	EXTERIOR CONTINUOUS WALL FTG W/ CURB 2727-01-C102 - S311	NTS	33
							
	54	NON-BEARING WALL ANCHORAGE @ SOG 2727-01-C102 - S311	NTS	34	TYPICAL VERT PIPES OR COND THROUGH FOOTING 2727-01-C102 - S311	NTS	24



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COUNTY OF SAN LUIS OBISPO  
ACCESSORY DWELLING UNIT  
SAN LUIS OBISPO, CA

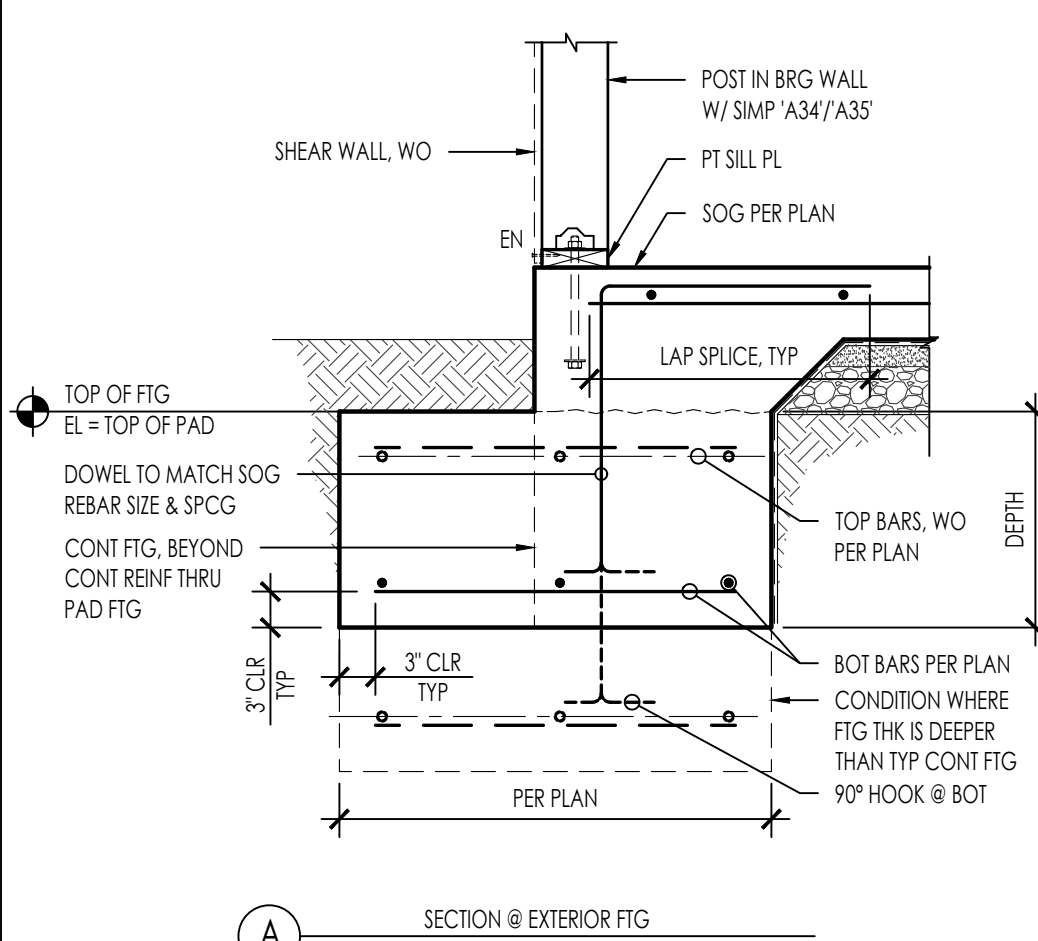
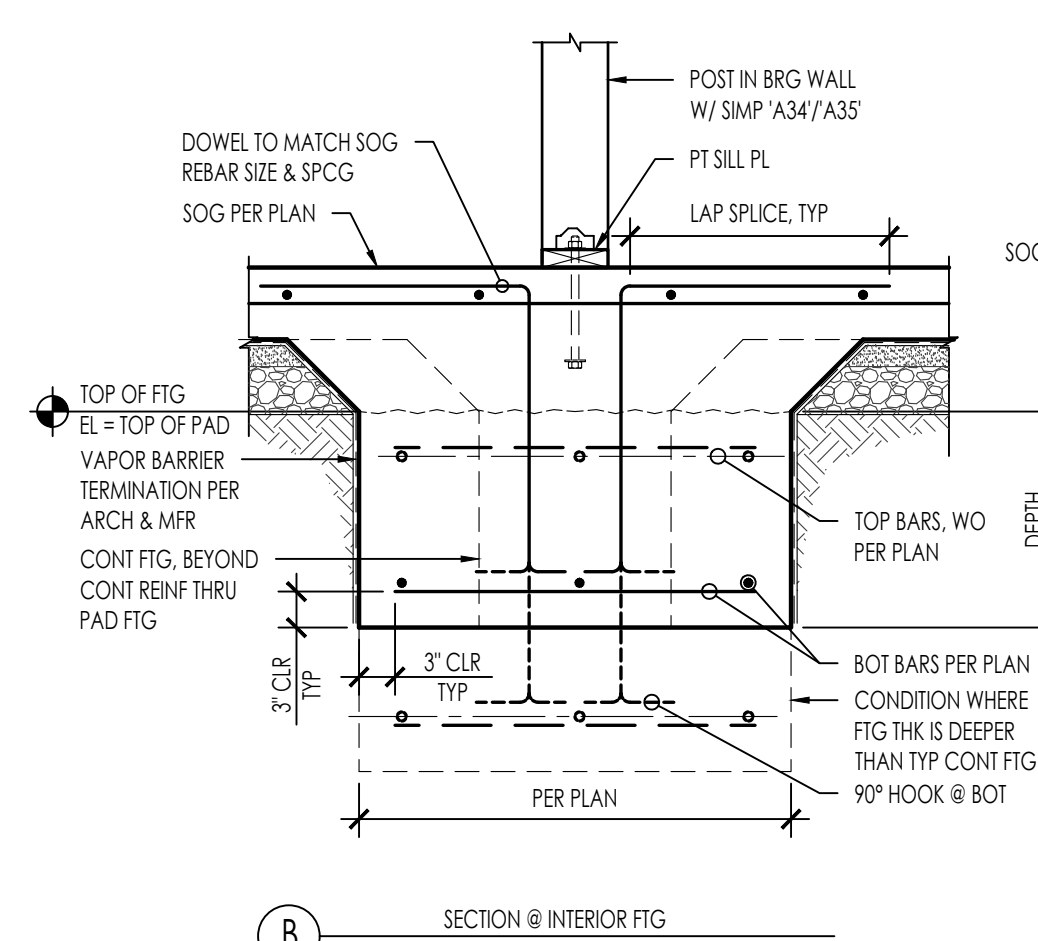
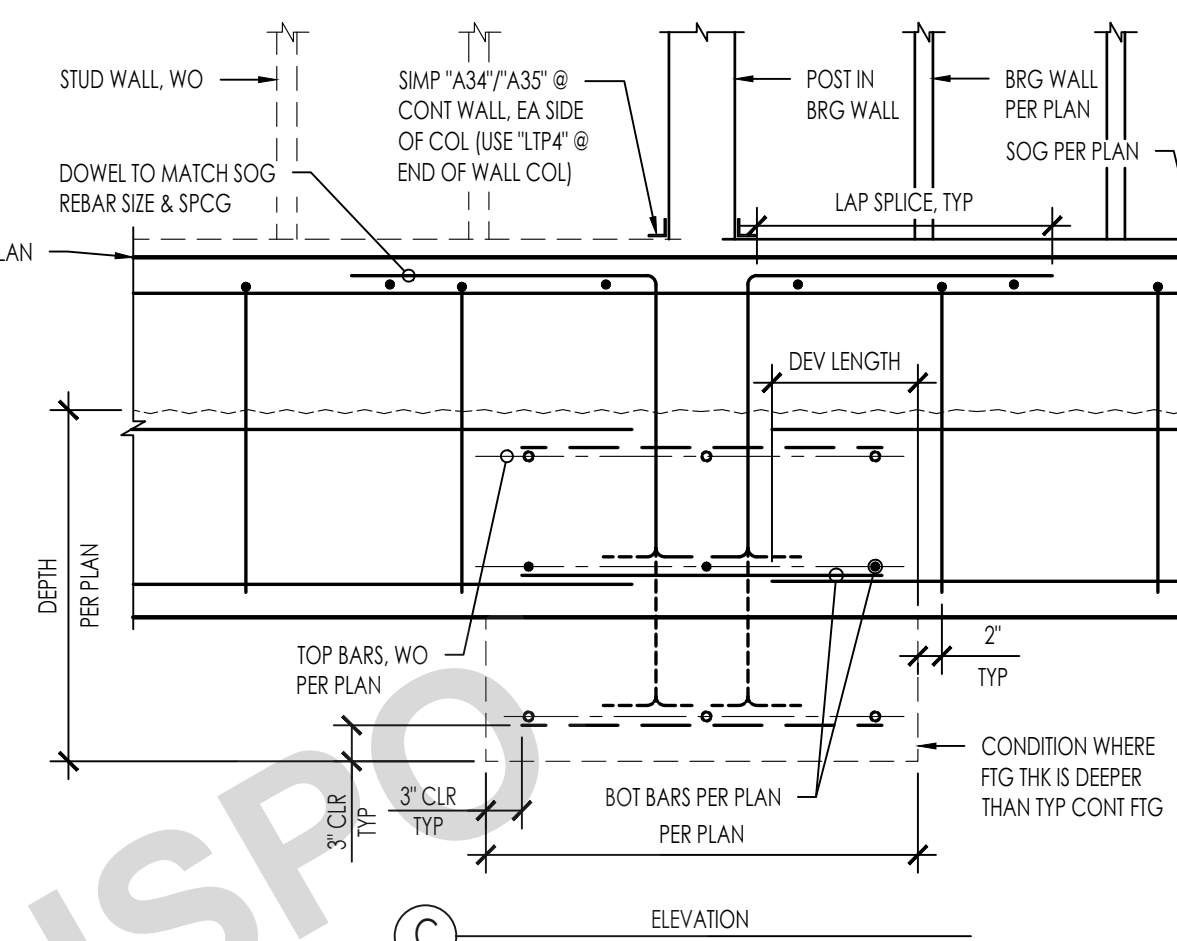
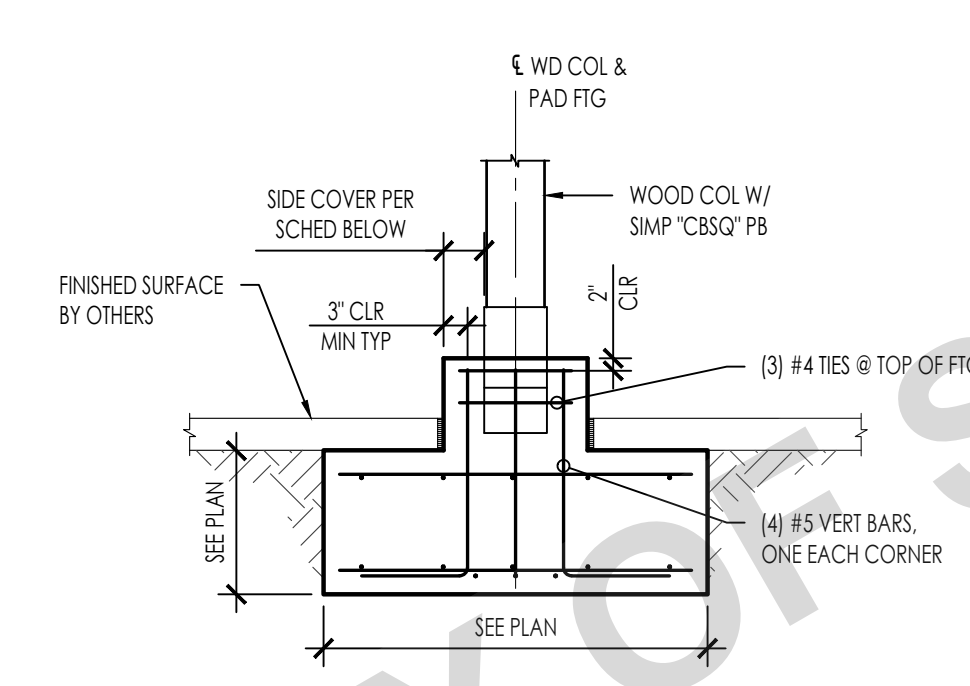
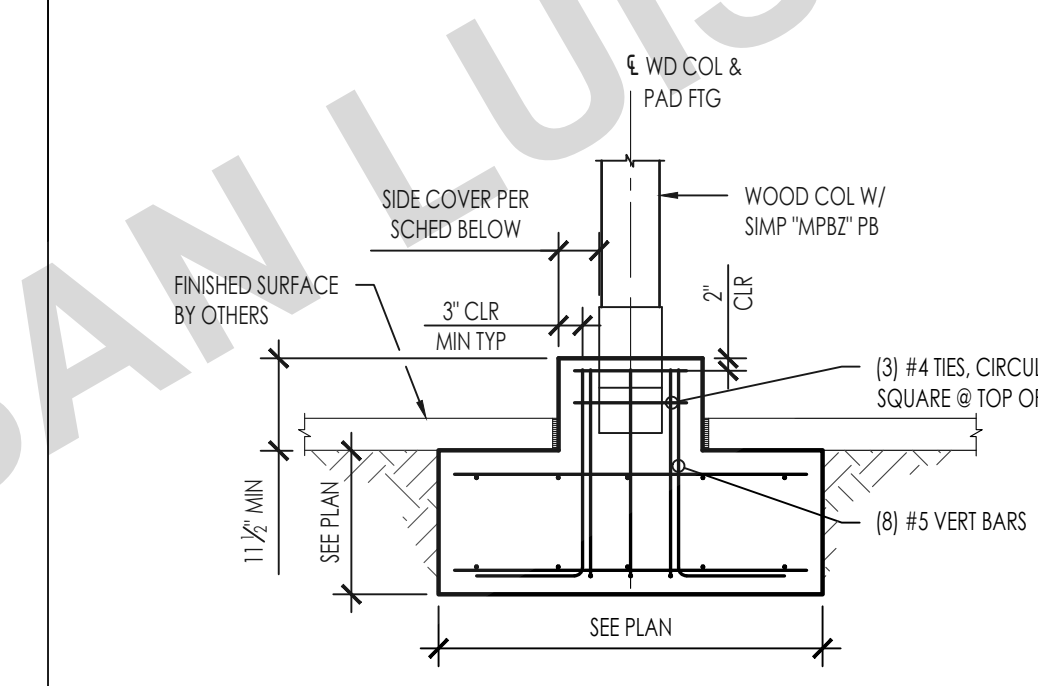
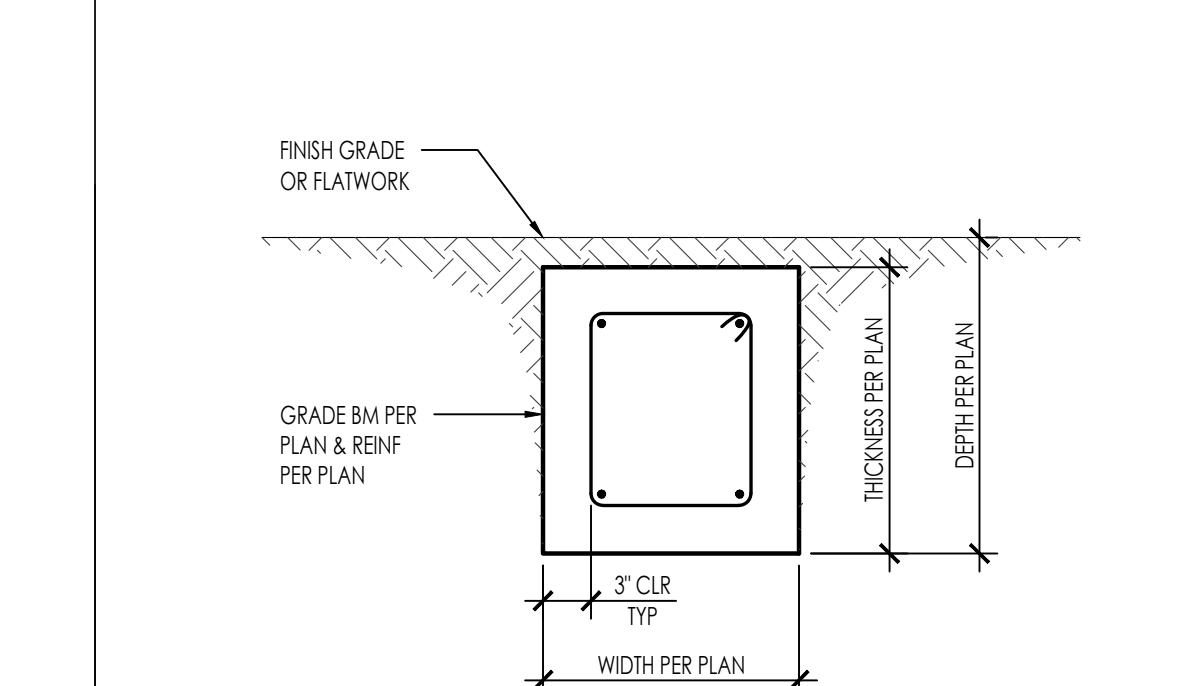
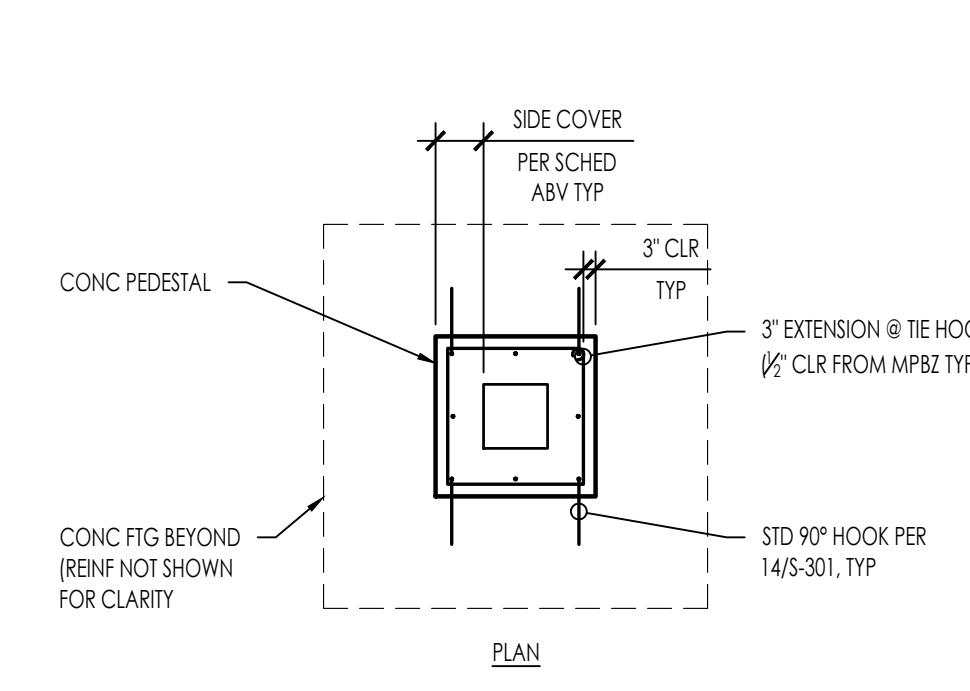
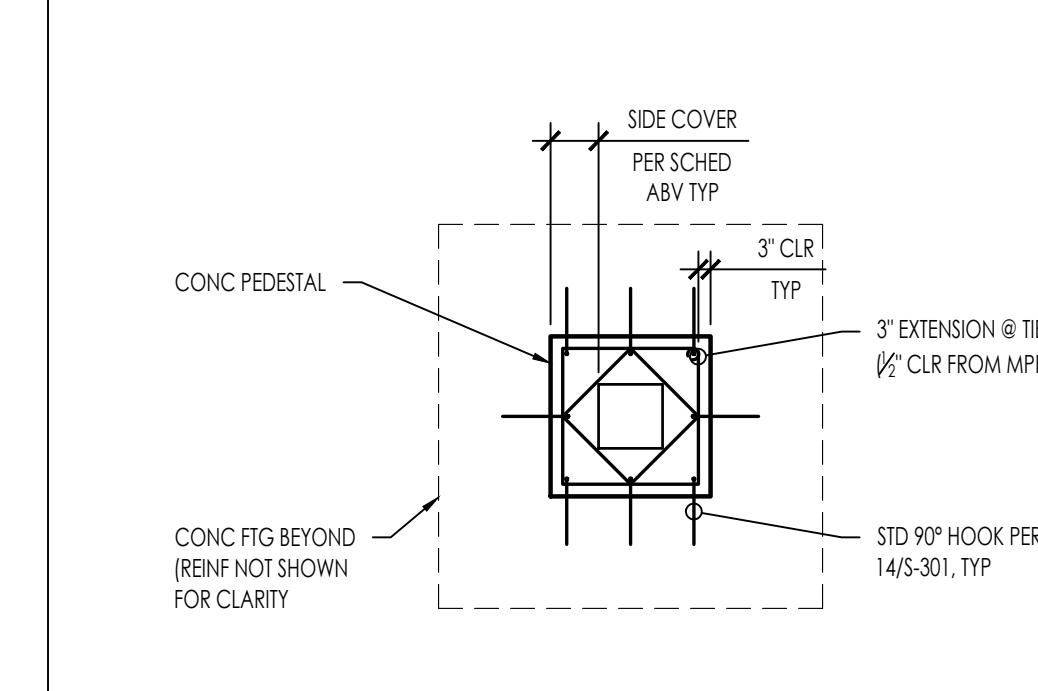
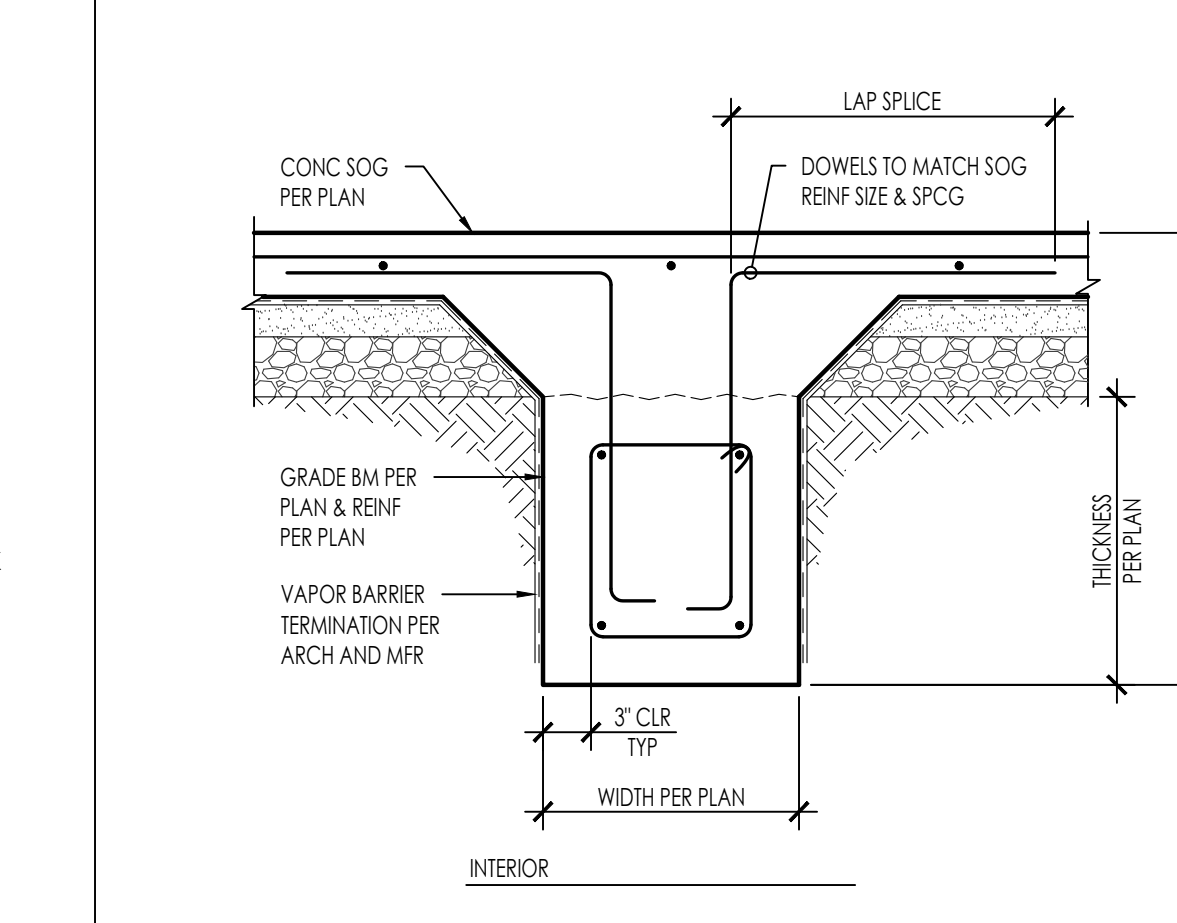
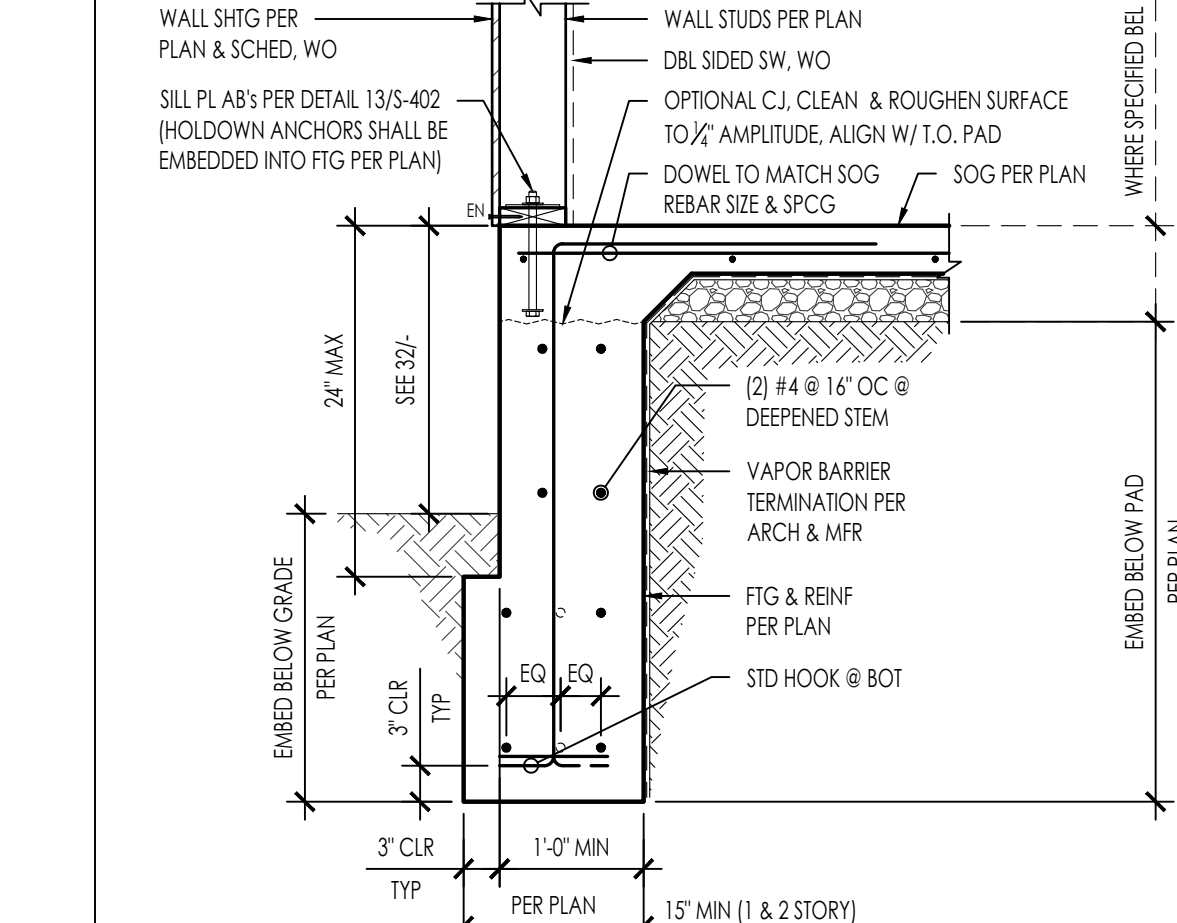
CONCRETE DETAILS


DATE  
11/20/2023

SHEET  
S-311



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	51	41	SPREAD FOOTING @ BEARING WALL POST <small>2727-01-C1022 - S312</small>		3/4" = 1'-0"	11								
														
	52	42	<table><tr><th>POST SIZE</th><th>MIN. SIDE COVER</th></tr><tr><td>4x4</td><td>0'-3"</td></tr><tr><td>6x6</td><td>0'-3"</td></tr><tr><td>8x8</td><td>0'-3"</td></tr></table> 	POST SIZE	MIN. SIDE COVER	4x4	0'-3"	6x6	0'-3"	8x8	0'-3"			
POST SIZE	MIN. SIDE COVER													
4x4	0'-3"													
6x6	0'-3"													
8x8	0'-3"													
	53	43	PORCH PAD FOOTING <small>2727-01-C1022 - S312</small>	1/2" = 1'-0"	33	MOMENT BASE POST @ POLE FOOTING <small>2727-01-C1022 - S312</small>	1/2" = 1'-0"	23	GRADE BEAM <small>2727-01-C1022 - S312</small>	NTS	13			
														
	54	44				DEEPEND EXTERIOR FOOTING <small>2727-01-C1022 - S312</small>	3/4" = 1'-0"	14						



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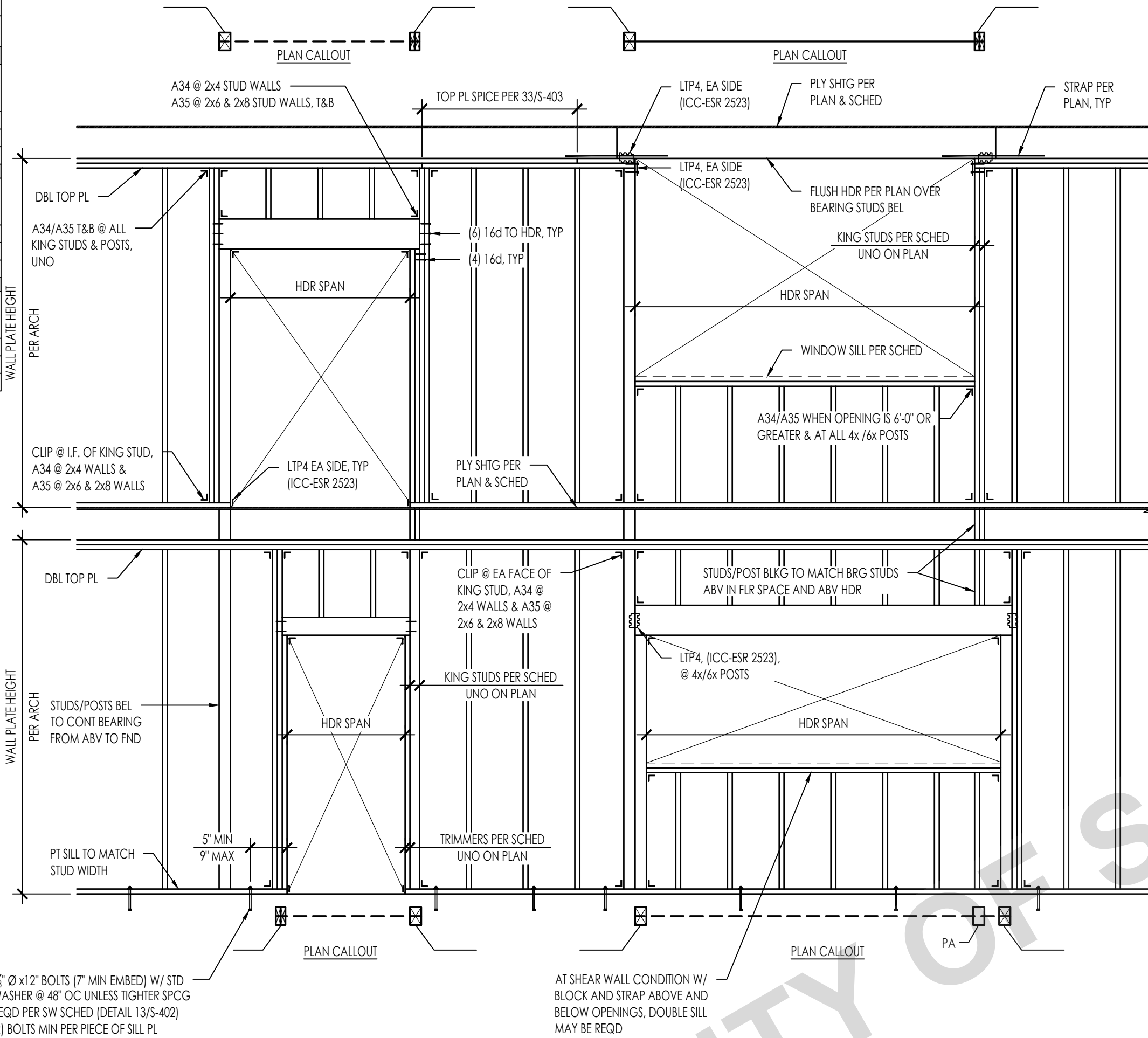


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BEARING/SHEAR WALL HEADER SCHEDULE												
4 INCH WALLS					3-STORY	2-STORY	1-STORY	6 INCH WALLS				
OPENING WIDTH	4x HEADER	SILL AT WINDOW	POST / TRIMMER	KING STUDS	3-STORY	2-STORY	1-STORY	OPENING WIDTH	6x HEADER	SILL AT WINDOW	POST / TRIMMER	KING STUDS
UP TO 3'-0"	4x4	2x	2x4	2x4				UP TO 3'-0"	6x4	2x	2x6	2x6
3'-0" - 5'-0"	4x6	2x	2x4	2x4				3'-0" - 5'-0"	6x6	2x	2x6	2x6
5'-0" - 7'-0"	4x8	(2) 2x	(2) 2x4	(2) 2x4				5'-0" - 7'-0"	6x8	(2) 2x	2x6	(2) 2x6

BEARING/SHEAR WALL HEADER SCHEDULE												
8 INCH WALLS					3-STORY	2-STORY	1-STORY					
OPENING WIDTH	8x HEADER	SILL AT WINDOW	POST / TRIMMER	KING STUDS	3-STORY	2-STORY	1-STORY	OPENING WIDTH	8x HEADER	SILL AT WINDOW	POST / TRIMMER	KING STUDS
UP TO 3'-0"	6x8 FLAT	2x	2x6	2x6				UP TO 3'-0"	6x8 FLAT	2x	2x6	2x6
3'-0" - 5'-0"	6x8 FLAT	2x	2x6	2x6				3'-0" - 5'-0"	6x8 FLAT	2x	2x6	2x6
5'-0" - 7'-0"	6x8 FLAT	(2) 2x	2x6	(2) 2x6				5'-0" - 7'-0"	6x8 FLAT	(2) 2x	2x6	(2) 2x6

- NOTES:
- THIS DETAIL APPLIES AT ALL EXT WALLS AND INT LOAD BEARING WALLS AND ALSO APPLIES TO SHEAR WALL FRAMING
  - FOR SHEAR WALLS SEE 34/5-402 FOR ADD'L REQUIREMENTS.
  - FOR INTERIOR NON-BEARING PARTITIONS SEE DETAIL 43/1
  - HEADERS, KING STUDS AND OTHER REFERENCES ON PLAN GOVERN OVER THIS TYPICAL SCHED/DETAILS
  - PROVIDE A34 @ 4" WALLS & A35 @ 6" OR GREATER WALLS (ICC-ESR 2353)

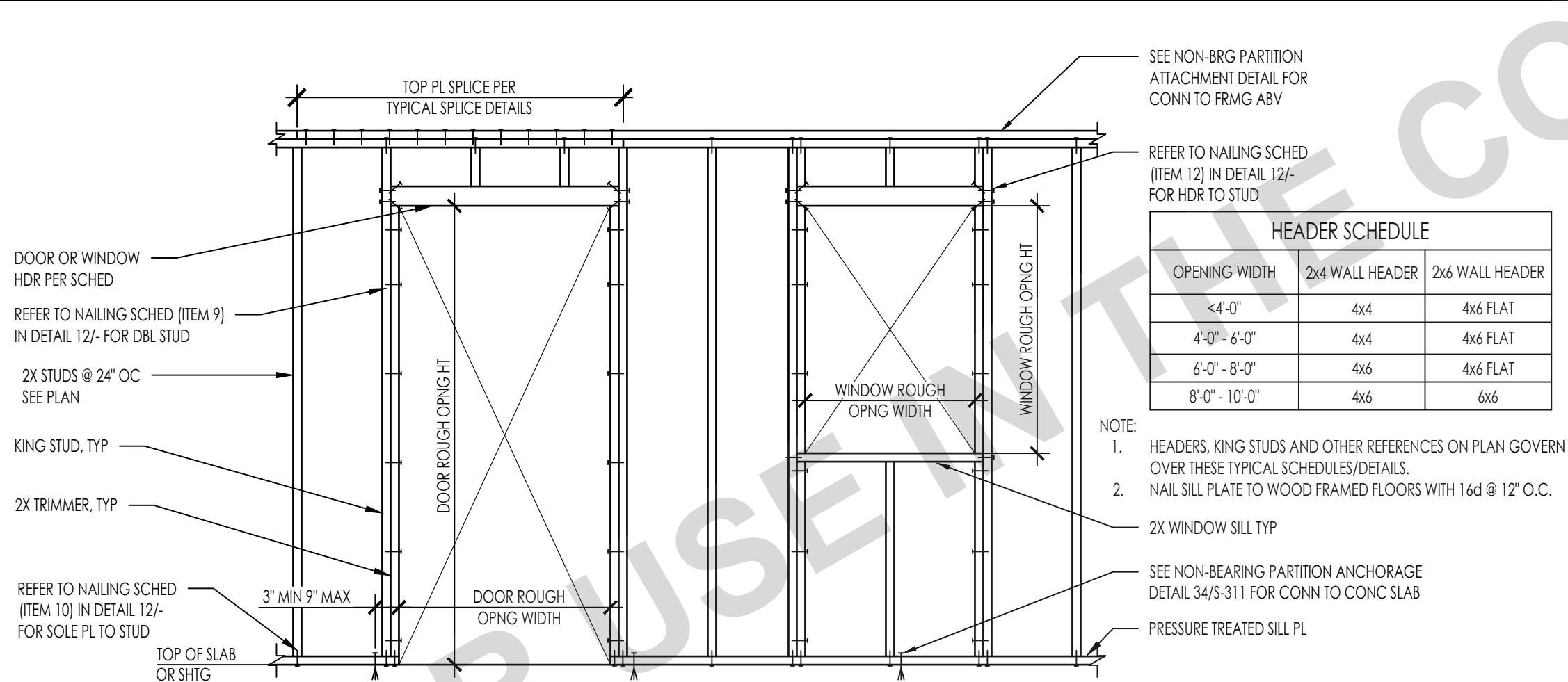


FASTENING SCHEDULE PER 2022 CBC 2304.10.1		
CONNECTION	FASTENING	LOCATION
1. BLOCKING BETWEEN CEILING JOISTS, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW	3-8d COMMON	EACH END, TOENAIL
2. BLOCKING BETWEEN RAFTERS OR TRUSSES NOT AT THE WALL TO TOP PLATE, TO RAFTER OR TRUSS	2-8d COMMON 2-16d COMMON	EACH END, TOENAIL END NAIL
3. FLAT BLOCKING TO TRUSS AND WEB FILLER	1-6d COMMON @ 6" OC	FACE NAIL
4. CEILING JOIST TO TOP PLATE	3-8d COMMON	EACH JOIST, TOENAIL
5. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS	3-16d COMMON	FACE NAIL
6. CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT)	3-16d COMMON	FACE NAIL
7. COLLAR TIE TO RAFTER	3-10d COMMON	FACE NAIL
8. RAFTER OR ROOF TRUSS TO PLATE	3-10d COMMON	TOENAIL <sup>3</sup>
9. ROOF RAFTER TO RIDGE VALLEY OR HIP RAFTER; OR ROOF RAFTER TO 2-INCH RIDGE BEAM	2-16d COMMON 3-10d COMMON	END NAIL TOENAIL
10. STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS	1-6d COMMON	1/4" OC FACE NAIL
11. BUILT-UP HEADER (2" TO 2" HEADER)	1-6d COMMON	1/4" OC EACH EDGE, FACE NAIL
12. CONTINUOUS HEADER TO STUD	4-10d COMMON	TOENAIL
13. TOP PLATE TO TOP PLATE	1-6d COMMON	1/4" OC FACE NAIL
14. TOP PLATE TO TOP PLATE, AT END JOINTS	8-16d COMMON	EACH SIDE OF END JOINT, FACE NAIL (MINIMUM 24" LAP SPICE LENGTH EACH SIDE OF END JOINT)
15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING	2-16d COMMON	1/4" OC FACE NAIL
16. STUD TO TOP OR BOTTOM PLATE	4-8d COMMON 2-16d COMMON	TOENAIL END NAIL
17. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON	FACE NAIL
18. JOIST TO SILL, TOP PLATE, OR GIRDER	3-8d COMMON	TOENAIL
20. RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW	8d COMMON	6" OC, TOENAIL
21. 1"x6" SUBFLOOR OR LESS TO EACH JOIST	2-8d COMMON	FACE NAIL
22. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON	FACE NAIL
23. BUILT-UP GIRDER AND BEAMS, 2" LUMBER LAYERS	20d COMMON (4" x 0.192")	3/4" OC FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDE
24. LEDGER STRIP SUPPORTING JOIST OR RAFTERS	3-16d COMMON	EACH JOIST OR RAFTER, FACE NAIL
26. JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON	END NAIL
27. BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS	2-8d COMMON	EACH END, TOENAIL

- NOTES:
- 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

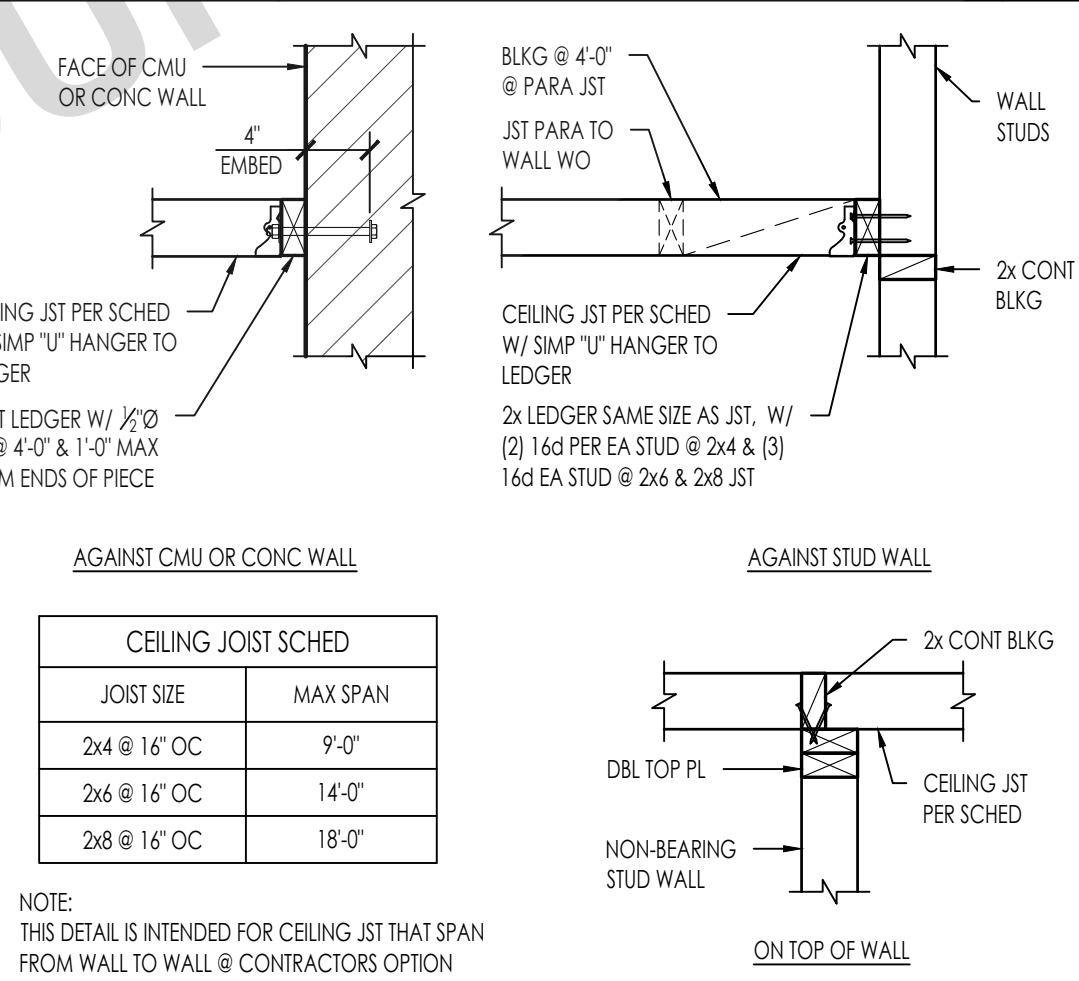
## EXTERIOR WALL / INTERIOR WALL BEARING WALL FRAMING

2727-01-C022-5401



HEADER SCHEDULE		
OPENING WIDTH	2x4 WALL HEADER	2x6 WALL HEADER
<4'-0"	4x4	4x6 FLAT
4'-0" - 6'-0"	4x4	4x6 FLAT
6'-0" - 8'-0"	4x6	4x6 FLAT
8'-0" - 10'-0"	4x6	6x6

- NOTE:
- HEADERS, KING STUDS AND OTHER REFERENCES ON PLAN GOVERN OVER THESE TYPICAL SCHEDULES/DETAILS.
  - NAIL SILL PLATE TO WOOD FRAMED FLOORS WITH 16d @ 12" O.C.
- 2X WINDOW SILL TYP
- SEE NON-BEARING PARTITION ANCHORAGE DETAIL 34/5-311 FOR CONN TO CONC SLAB
- PRESSURE TREATED SILL PL

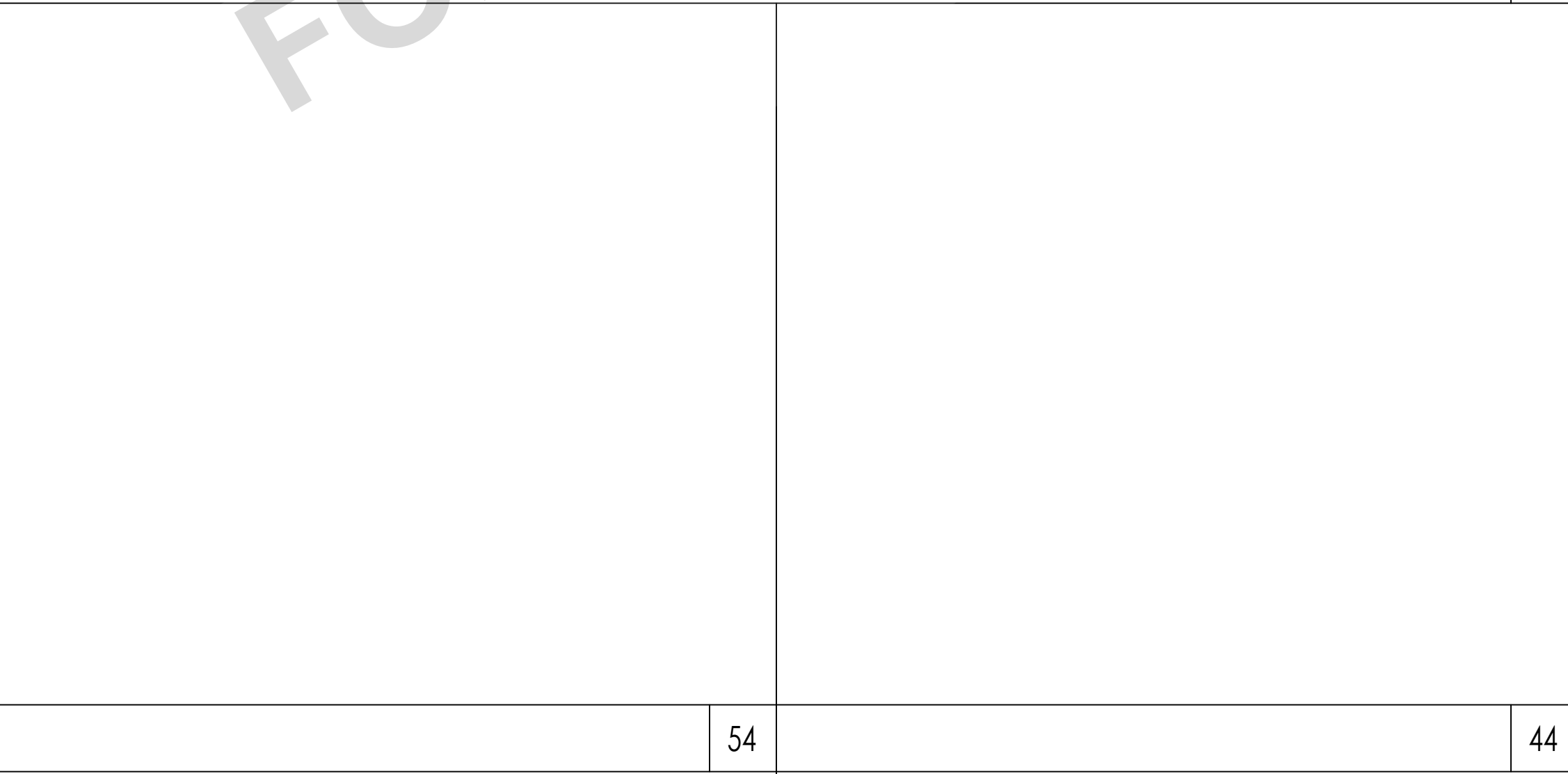


CEILING JOIST SCHED	
JOIST SIZE	MAX SPAN
2x4 @ 16" OC	9'-0"
2x6 @ 16" OC	14'-0"
2x8 @ 16" OC	18'-0"

NOTE: THIS DETAIL IS INTENDED FOR CEILING JST THAT SPAN FROM WALL TO WALL @ CONTRACTORS OPTION

## INTERIOR NON-BEARING PARTITION WALL FRAMING

2727-01-C022-5401

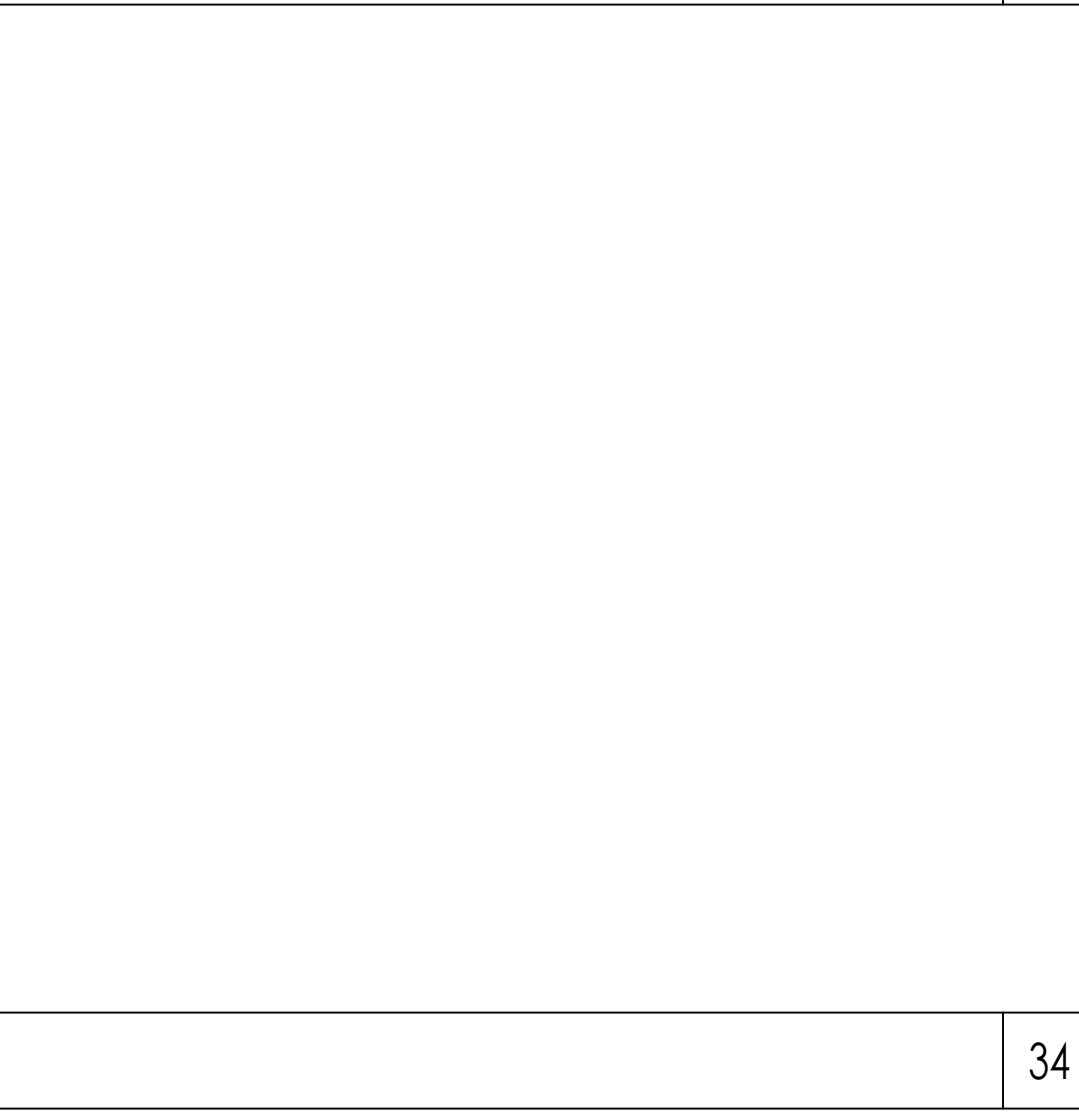


HEADER SCHEDULE		
OPENING WIDTH	2x4 WALL HEADER	2x6 WALL HEADER
<4'-0"	4x4	4x6 FLAT
4'-0" - 6'-0"	4x4	4x6 FLAT
6'-0" - 8'-0"	4x6	4x6 FLAT
8'-0" - 10'-0"	4x6	6x6

- NOTE:
- HEADERS, KING STUDS AND OTHER REFERENCES ON PLAN GOVERN OVER THESE TYPICAL SCHEDULES/DETAILS.
  - NAIL SILL PLATE TO WOOD FRAMED FLOORS WITH 16d @ 12" O.C.
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- SEE NON-BEARING PARTITION ANCHORAGE DETAIL 34/5-311 FOR CONN TO CONC SLAB
- PRESSURE TREATED SILL PL

## CEILING JOIST SCHED & DETAILS

2727-01-C022-5401



CEILING JOIST SCHED	
JOIST SIZE	MAX SPAN
2x4 @ 16" OC	9'-0"
2x6 @ 16" OC	14'-0"
2x8 @ 16" OC	18'-0"

NOTE: THIS DETAIL IS INTENDED FOR CEILING JST THAT SPAN FROM WALL TO WALL @ CONTRACTORS OPTION

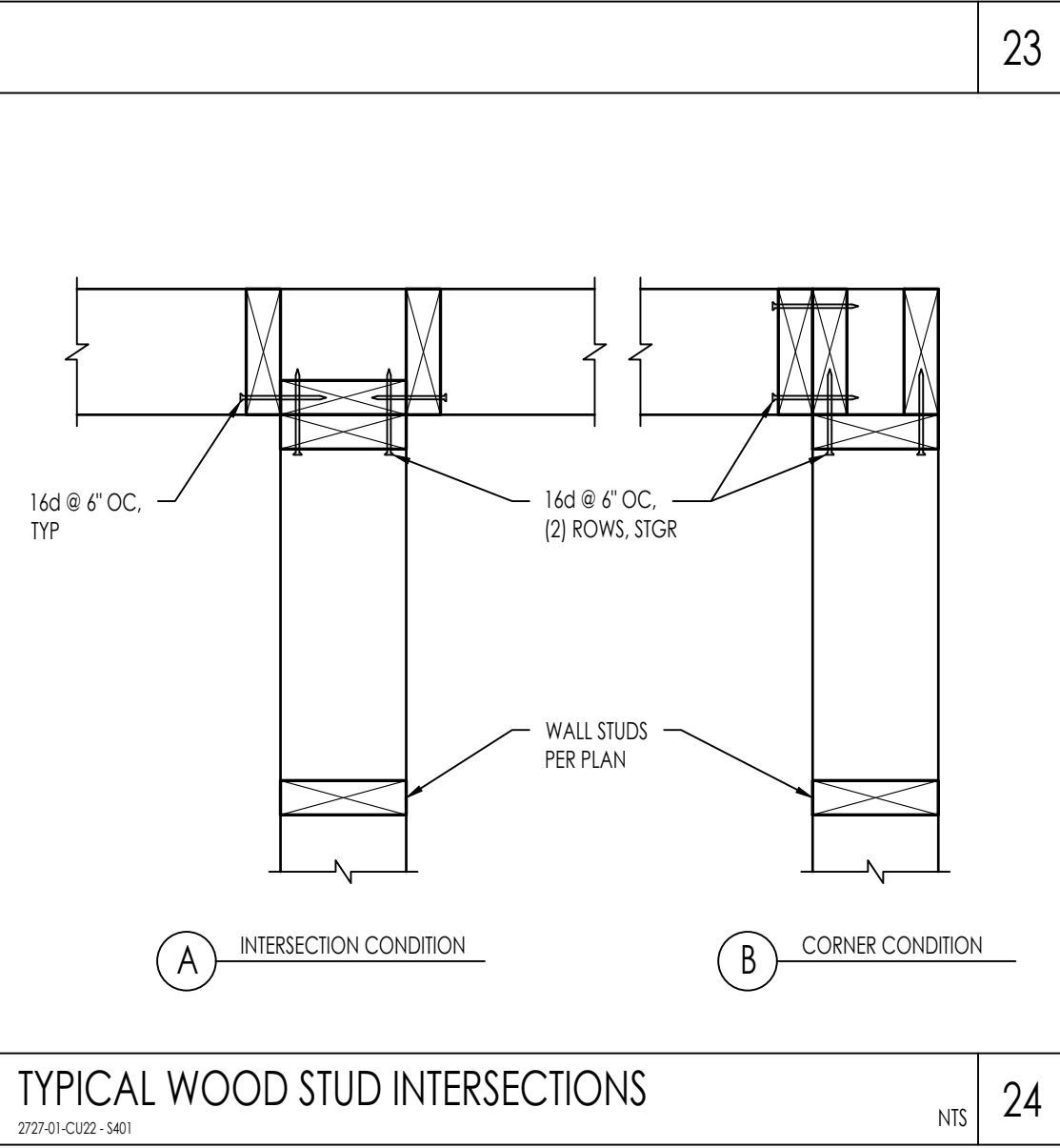
## NAILING SCHEDULE

2727-01-C022-5401



CEILING JOIST SCHED	
JOIST SIZE	MAX SPAN
2x4 @ 16" OC	9'-0"
2x6 @ 16" OC	14'-0"
2x8 @ 16" OC	18'-0"

NOTE: THIS DETAIL IS INTENDED FOR CEILING JST THAT SPAN FROM WALL TO WALL @ CONTRACTORS OPTION

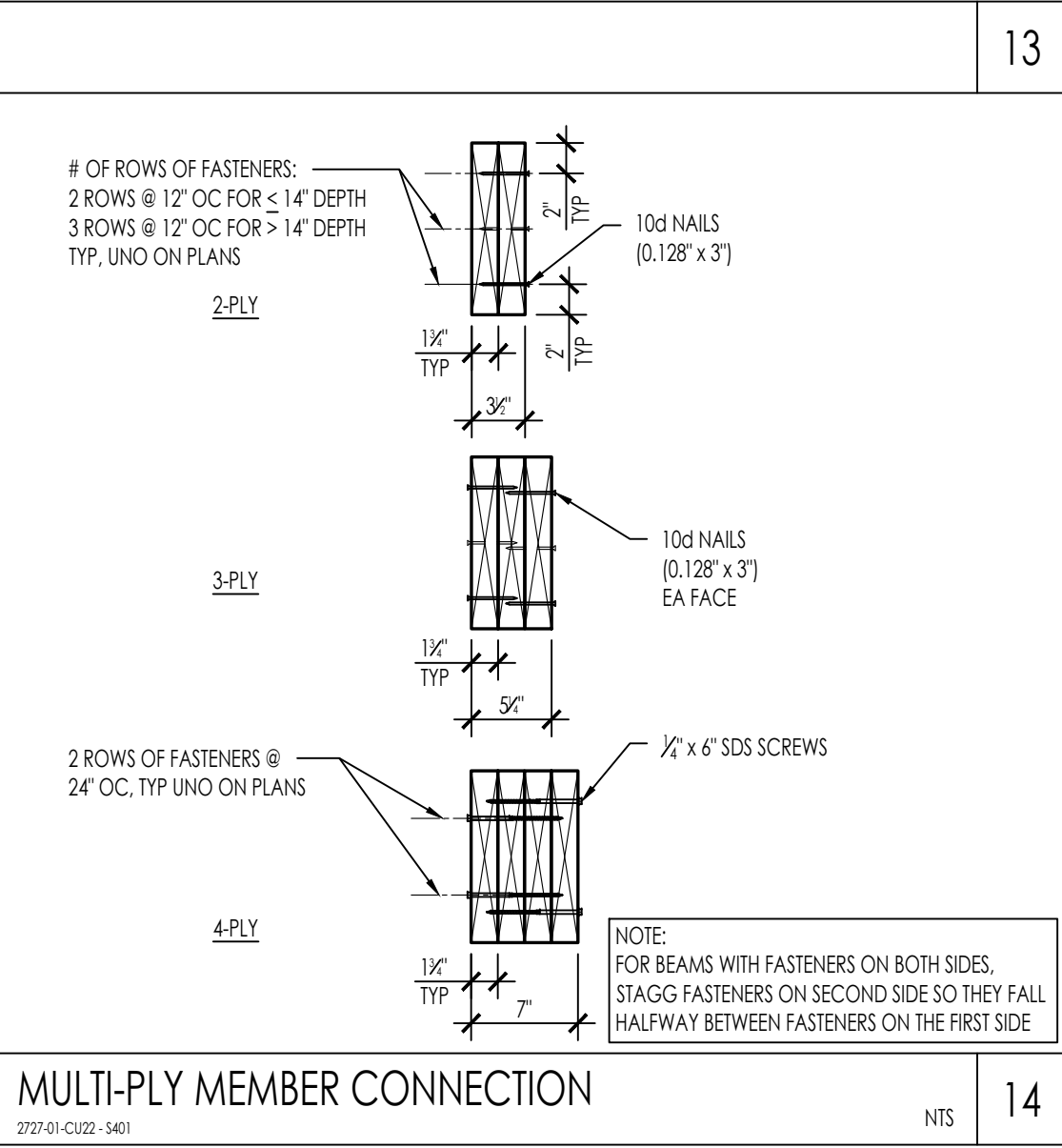


CEILING JOIST SCHED	
JOIST SIZE	MAX SPAN
2x4 @ 16" OC	9'-0"
2x6 @ 16" OC	14'-0"
2x8 @ 16" OC	18'-0"

NOTE: THIS DETAIL IS INTENDED FOR CEILING JST THAT SPAN FROM WALL TO WALL @ CONTRACTORS OPTION

## TYPICAL WOOD STUD INTERSECTIONS

2727-01-C022-5401



## MULTI-PLY MEMBER CONNECTION

2727-01-C022-5401



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## COUNTY OF SAN LUIS OBISPO ACCESSORY DWELLING UNIT

SAN LUIS OBISPO, CA

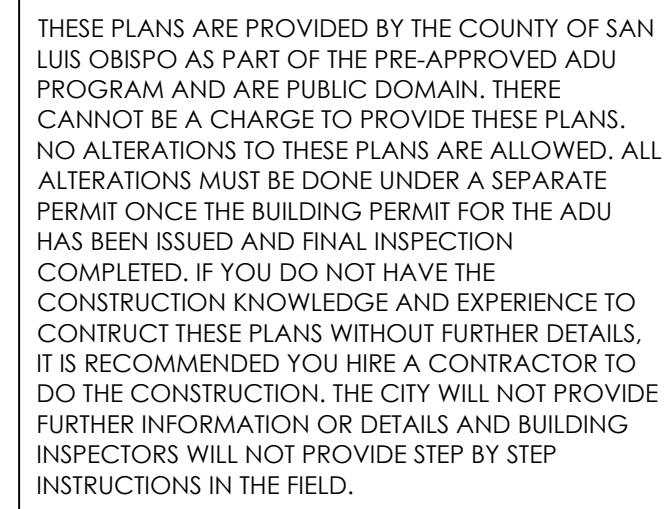
## TYPICAL WOOD DETAILS

DATE  
11/20/2023

SHEET

S-401





## 2727-01-CU22 - S402

NTS

42



## 2727-01-CU22 - S402

NTS

## 2727-01-CU22 - S402

NITS

43

NOTES:


1. 2 BAYS OR 32" MIN STRAP LENGTH
2. BOUNDARY AND EDGE NAILING FROM PLYWOOD TO STUDS FRAMING SHALL OCCUR ABOVE AND BELOW OPENINGS AT THIS CONDITION
3. SEE TYPICAL SHEAR WALL ELEVATION FOR BALANCE OF INFO NOT SHOWN



## 2727-01-CJ122 - 5402

WHERE PLANS SHOW (2) 2x6  
STUDS / POSTS IN SHEAR WALL  
CONN W/ 16d @ 4" OC, STAC  
ON EA SIDE OF POST (OR 4x  
MAY BE USED IN LIEU OF (2) 2x6

NOTES

- NOTES:
1. ALL PLYWOOD SHALL BE 5 PLY MINIMUM WITH A SPAN RATING OF 32/16 AND ALL PANEL EDGES SHALL BE BLOCKED. PROVIDE 1" GAP AT ALL PANEL JOINTS.
2. ALL NAILS SHALL BE COMMON NAILS.
3. PROVIDE E.N. AT ALL END STUDS, STUDS/POSTS WITH HOLD-DOWNS OR THE DOWN STRAPS, SILL PLATES AND TOP PLATES.
4. WHERE 100 NAILS ARE 3 INCHES ON CENTER OR LESS, NAILS SHALL BE STAGGERED.
5. NAILS SHALL BE 1/2 INCH MINIMUM FROM PLYWOOD PANEL EDGE AND 3/8 INCH MINIMUM FROM CONNECTING MEMBER EDGE WHERE SHEAR EXCEEDS 300 PLF.
6. USE 3x FRAMING AT BOTTOM SILL PLATES, BLOCKING AND ALL STUDS AT ADJACENT PANEL EDGES WHERE SHEAR EXCEEDS 300 PLF. STRUCTURALLY ACCEPTABLE TO USE 2x2 INSTEAD OF 3x FRAMING AT BOTTOM SILL PLATES.
7. WHERE SILL SHEAR TRANSFER IS THROUGH LAAG SCREWS, SILL PLATE SHALL BE A MINIMUM OF 2 1/2" THICK.
8. LAAG SCREWS SHALL BE 6 INCHES LONG AND HOLES ARE TO BE PRE-DRILLED AS TO NOT SPLIT BLOCKING/IRM.
9. SEE ELEVATION ABOVE FOR TYPICAL CONSTRUCTION.
10. REFER TO PLATE WASHER DETAIL FOR REQUIREMENTS.
11. LENGTHEN ANCHOR BOLTS AS REQUIRED FOR EMBEDMENT AND SILL PLATE THICKNESS.
12. ORIENTED STRAND BOARD (OSB) MAY BE SUBSTITUTED FOR PLYWOOD NOTED ABOVE PROVIDED IT IS RATED BY APRA PERFORMANCE STANDARD RATING AND IS OF THE SAME NUMBER OR LAYERS AS PLYWOOD PLY INDICATED.
13. LIMITATIONS OF MECHANICAL PENETRATIONS IN SHEAR WALLS:
  - A. 4 1/2" MAX PENETRATION
  - B. NO CUTS OR HOLES IN SHEATHING WITHIN 16" OF CORNERS. SQUARE PENETRATIONS SHALL RADIIUS EDGES, DO NOT OVER CUT HOLE WITH SAW 
14. ASSUMES A 1 1/4" MIN. IRM BOARD. FASTENER EDGE DIST IS 5/8" MIN & 6" END DISTANCE MIN. 2 MIN PENETRATION INTO RIM BOARD.
15. \* WALL W/ DOUBLED STUD THROUGH REQUIRED (2) RIM BOARDS.
16. SIMPSON 1/4" CUP NAIL SHALL BE INSTALLED IN A HORIZONTAL ORIENTATION. IF CUP IS INSTALLED OVER THE PENETRATION, 0.131" x 2 1/2" NAILS SHALL BE USED.

## 2727-01-CU22-S402

NTS

13



## 2727-01-CJ122 - 5402

NITC

24

2727-01-CJ022 - SAC02



## 2727-01-CJ022 - SAC02

MTC

14



N:\2000\2727-01\c029-40-county\ad\structural\ConDoc\Sheet-figs\2727-01-C022-5403.dwg, PLAN 6 - 5403, Nov 20, 2023, 3:32pm, adspace

		<div><table><tr><th colspan="4">TOP PLATE LAP NAILING</th></tr><tr><th>WALL TYPE</th><th>MIN LAP SPLICE</th><th>NAILS EA SIDE</th><th></th></tr><tr><td>NON-BEARING</td><td>2'-0"</td><td>(8) 16d</td><td></td></tr></table></div>	TOP PLATE LAP NAILING				WALL TYPE	MIN LAP SPLICE	NAILS EA SIDE		NON-BEARING	2'-0"	(8) 16d																																																								
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51	DBL TOP PLATE SPLICE NAILING 2727-01-C022-5403		NTS	32	<div><table><tr><th colspan="12">DIAPHRAGM SCHEDULE</th></tr><tr><th>TYPE</th><th>LOCATION</th><th>SHEATHING THICKNESS</th><th>SHEATHING GRADE</th><th>SPAN RATING</th><th>BLOCKING</th><th>NAILS</th><th>BOUNDARY NAILING (BN)</th><th>EDGE NAILING AT CONT. PANEL EDGES (EN)</th><th>EDGE NAILING AT OTHER PANEL EDGES (EN)</th><th>FIELD NAILING (FN)</th><th>PANEL EDGE SUPPORT OR NOMINAL MEMBER WIDTH AT PANEL EDGES</th><th>LINES OF FASTENERS</th></tr><tr><td>A</td><td>ROOF</td><td>SEE NOTE 5</td><td>SHEATHING</td><td>32 / 16</td><td>NO</td><td>10d</td><td>6</td><td>-</td><td>6</td><td>12</td><td>H-CLIPS</td><td>1</td></tr><tr><td>B</td><td>FLOOR</td><td>2 3/4</td><td>STURD-H-FLOOR</td><td>48 / 24</td><td>NO</td><td>10d</td><td>6</td><td>-</td><td>6</td><td>12</td><td>T&amp;G</td><td>1</td></tr><tr><td>C</td><td>FLOOR</td><td>2 3/4</td><td>STURD-H-FLOOR</td><td>48 / 24</td><td>YES</td><td>10d</td><td>2 1/2</td><td>2 1/2</td><td>4</td><td>12</td><td>2x4 FLAT</td><td>1</td></tr></table><p>NOTES:</p><ol style="list-style-type: none"><li>DIAPHRAGM SHALL BE GLUED TO FLOOR FRAMING PRIOR TO NAILING, REFER TO PROJECT GENERAL NOTES.</li><li>MINIMUM EDGE DISTANCE FOR NAILS SHALL BE 3/8" FROM SHEATHING EDGE AND 1/2" FROM LUMBER EDGE.</li><li>NAILS SHALL BE DRIVEN TIGHT TO TOP OF PLYWOOD SURFACE AND SHALL NOT PENETRATE THE TOP OF PLYWOOD MORE THAN COMMONLY EXPECTED WITH HAMMER DRIVEN NAILS.</li><li>WHERE H-CLIPS ARE SPECIFIED, THEY SHOULD BE INSTALLED AS FOLLOWS:<ol style="list-style-type: none"><li>ONE H-CLIP SHALL BE PLACED BETWEEN ABUTTING PANELS AT A LOCATION MIDWAY BETWEEN EACH PAIR OF TRUSSES, RAFTERS OR JOISTS. HOWEVER, (2) H-CLIPS ARE REQUIRED BETWEEN SUPPORTS WHEN SPACED 48 INCHES ON CENTER</li><li>USE THE SAME SIZE PANEL EDGE CLIP AS THE PANEL THICKNESS. H-CLIPS MUST FIT SNUGLY</li><li>ABUTTING WOOD STRUCTURAL PANELS BE FITTED AS CLOSELY AS CLIPS PERMIT. OCCASIONAL MISFIT OF ABUTTING SHEETS MAY BE TOLERATED PROVIDING THAT GAPS DO NOT EXCEED MAXIMUM OPENING OF 1/8".</li></ol></li><li>ROOF SHEATHING THICKNESS SHALL BE INSTALLED AS FOLLOWS:<ol style="list-style-type: none"><li>1/2" @ SINGLE PLY OR ASPHALT SHINGLES</li><li>1/2" @ TILE</li><li>2 3/4" @ TILE WITH MORTAR</li></ol></li><li>STRUCTURALLY ACCEPTABLE TO USE "SHEATHING" SHEATHING GRADE @ FLOOR LOCATIONS WITHOUT GYPCRETE TOPPING</li></ol></div>	DIAPHRAGM SCHEDULE												TYPE	LOCATION	SHEATHING THICKNESS	SHEATHING GRADE	SPAN RATING	BLOCKING	NAILS	BOUNDARY NAILING (BN)	EDGE NAILING AT CONT. PANEL EDGES (EN)	EDGE NAILING AT OTHER PANEL EDGES (EN)	FIELD NAILING (FN)	PANEL EDGE SUPPORT OR NOMINAL MEMBER WIDTH AT PANEL EDGES	LINES OF FASTENERS	A	ROOF	SEE NOTE 5	SHEATHING	32 / 16	NO	10d	6	-	6	12	H-CLIPS	1	B	FLOOR	2 3/4	STURD-H-FLOOR	48 / 24	NO	10d	6	-	6	12	T&G	1	C	FLOOR	2 3/4	STURD-H-FLOOR	48 / 24	YES	10d	2 1/2	2 1/2	4	12	2x4 FLAT	1
DIAPHRAGM SCHEDULE																																																																					
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52		42		32	PLYWOOD DIAPHRAGM SHEATHING 2727-01-C022-5403	NTS	12																																																														
					<div></div>																																																																
53		43		33	OPENING AT FRAMING 2727-01-C022-5403	NTS	23																																																														
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54		44		34	TYP JOIST BLOCKING 2727-01-C022-5403	NTS	14																																																														

THESE PLANS ARE PROVIDED BY THE COUNTY OF SAN LUIS OBISPO AS PART OF THE PRE-APPROVED ADU PROGRAM AND ARE PUBLIC DOMAIN. THERE CANNOT BE A CHARGE TO PROVIDE THESE PLANS. NO ALTERATIONS TO THESE PLANS ARE ALLOWED. ALL ALTERATIONS MUST BE DONE UNDER A SEPARATE PERMIT ONCE THE BUILDING PERMIT FOR THE ADU HAS BEEN ISSUED AND FINAL INSPECTION COMPLETED. IF YOU DO NOT HAVE THE CONSTRUCTION KNOWLEDGE AND EXPERIENCE TO CONTRUCT THESE PLANS WITHOUT FURTHER DETAILS, IT IS RECOMMENDED YOU HIRE A CONTRACTOR TO DO THE CONSTRUCTION. THE CITY WILL NOT PROVIDE FURTHER INFORMATION OR DETAILS AND BUILDING INSPECTORS WILL NOT PROVIDE STEP BY STEP INSTRUCTIONS IN THE FIELD.

COUNTY OF SAN LUIS OBISPO  
ACCESSORY DWELLING UNIT  
SAN LUIS OBISPO, CA

TYPICAL WOOD DETAILS


DATE  
11/20/2023

SHEET  
S-403



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	51	41		31
	52	42		32
			ALLOWABLE HOLES THRU ENGINEERED LUMBER HEADERS & BEAMS <small>2727-01-C022-5404</small>	NTS 12
	53	43		33
			SAWN LUMBER AND RAFTER JOIST NOTCHING AND BORING LIMITATIONS <small>2727-01-C022-5404</small>	NTS 13
	54	44		34
			TYP WALL NOTCH AND BORING LIMITATIONS <small>2727-01-C022-5404</small>	NTS 24
				TOP PL AND SILL NOTCH AND BORING LIMITATIONS <small>2727-01-C022-5404</small>



COUNTY OF SAN LUIS OBISPO

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COUNTY OF SAN LUIS OBISPO

ACCESSORY DWELLING UNIT

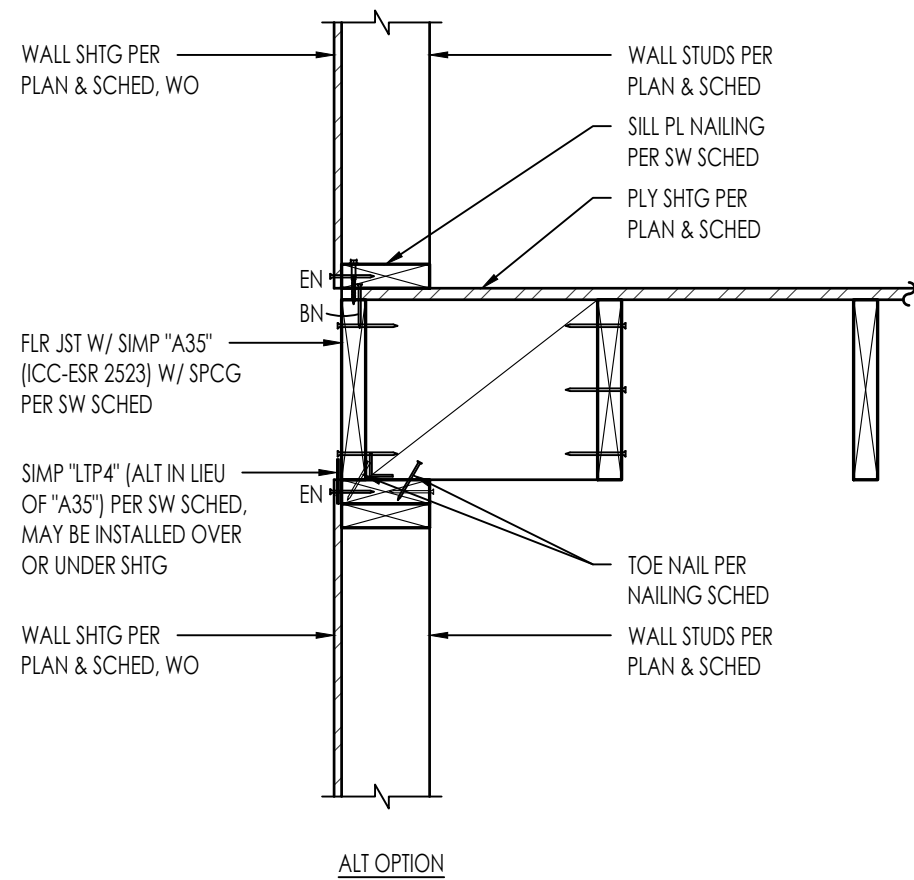
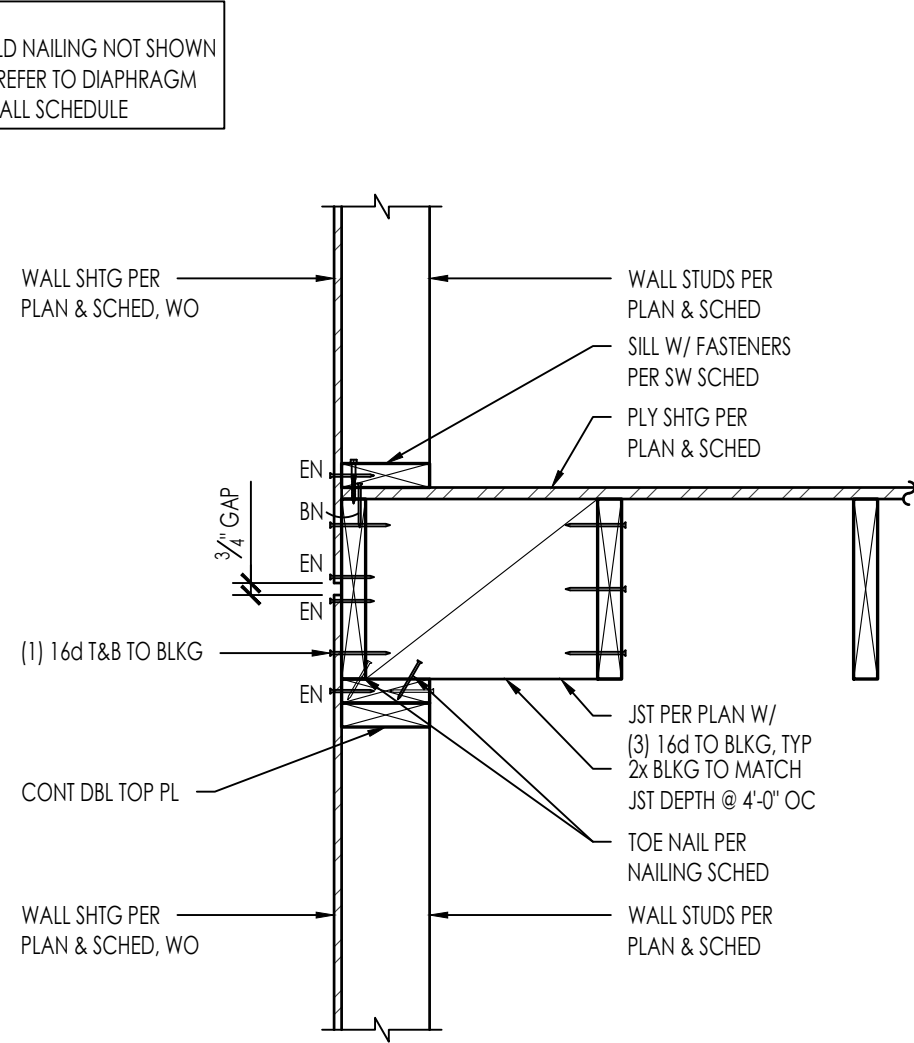
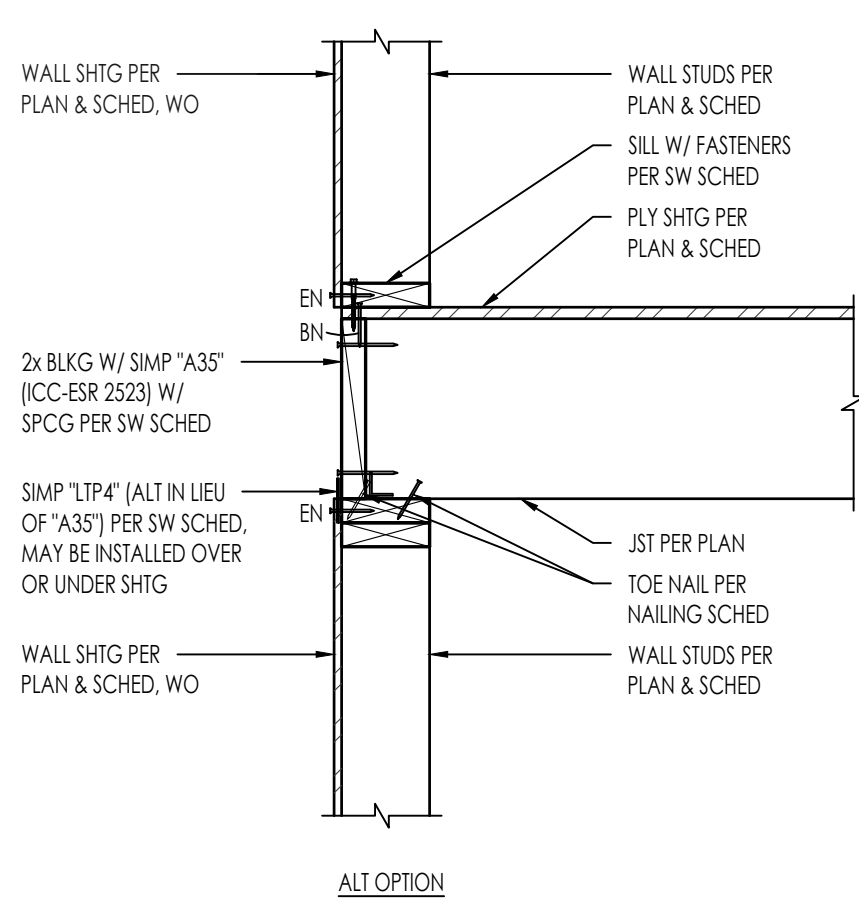
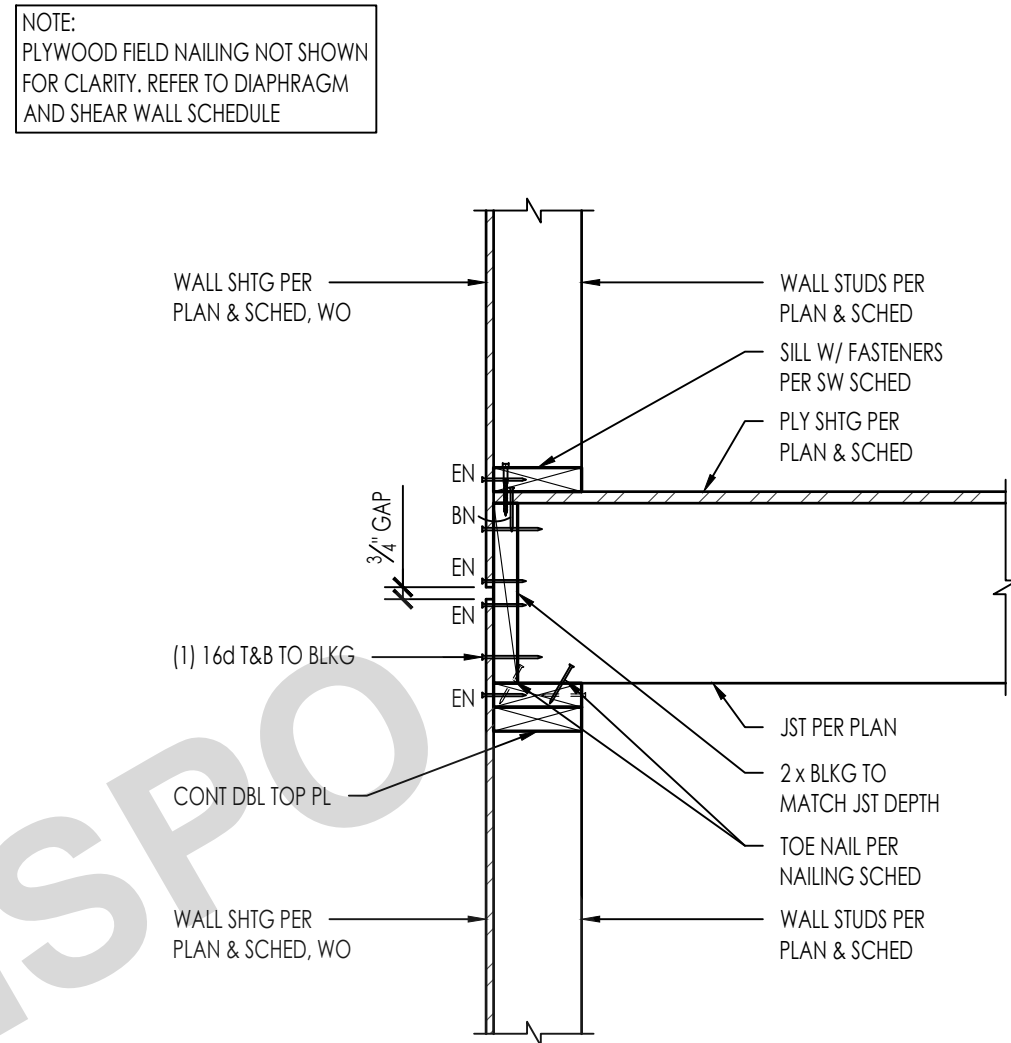
SAN LUIS OBISPO, CA






TYPICAL WOOD DETAILS



**COUNTY OF SAN LUIS OBISPO**  
**ACCESSORY DWELLING UNIT**  
SAN LUIS OBISPO, CA

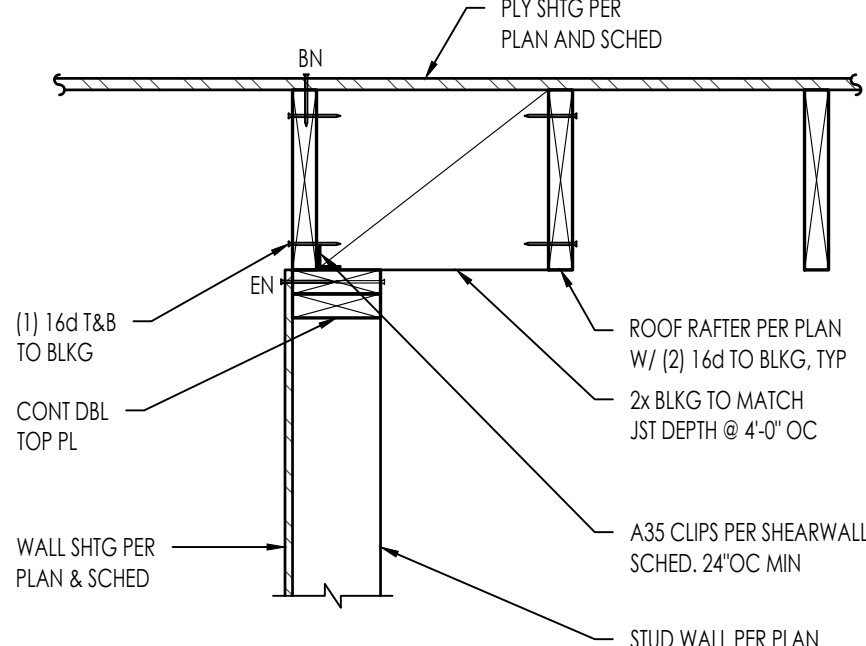
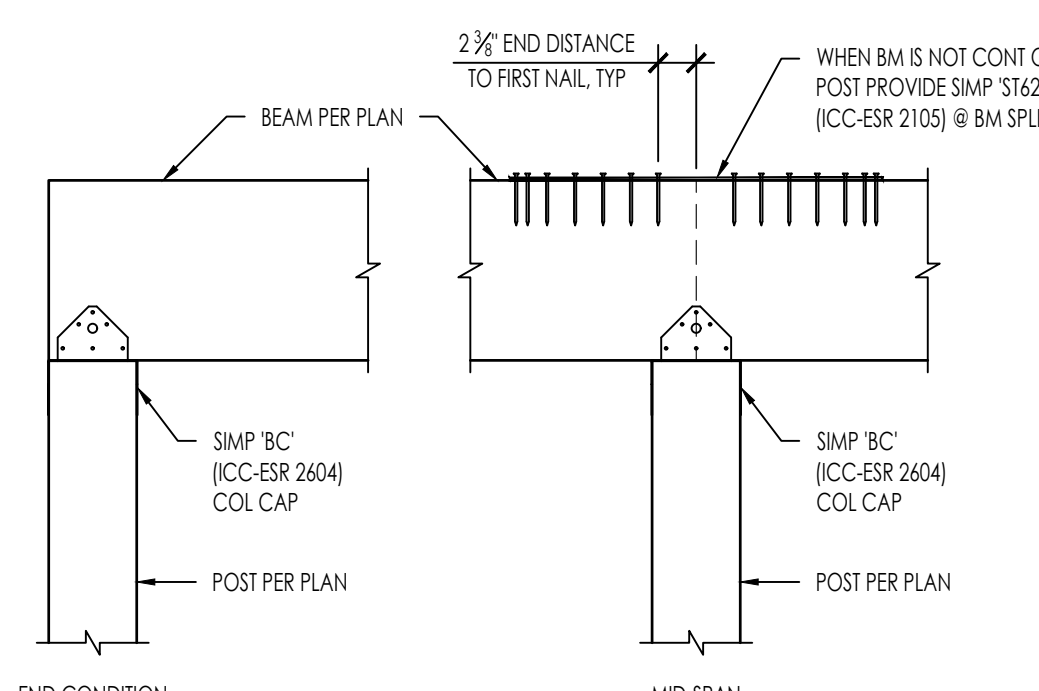
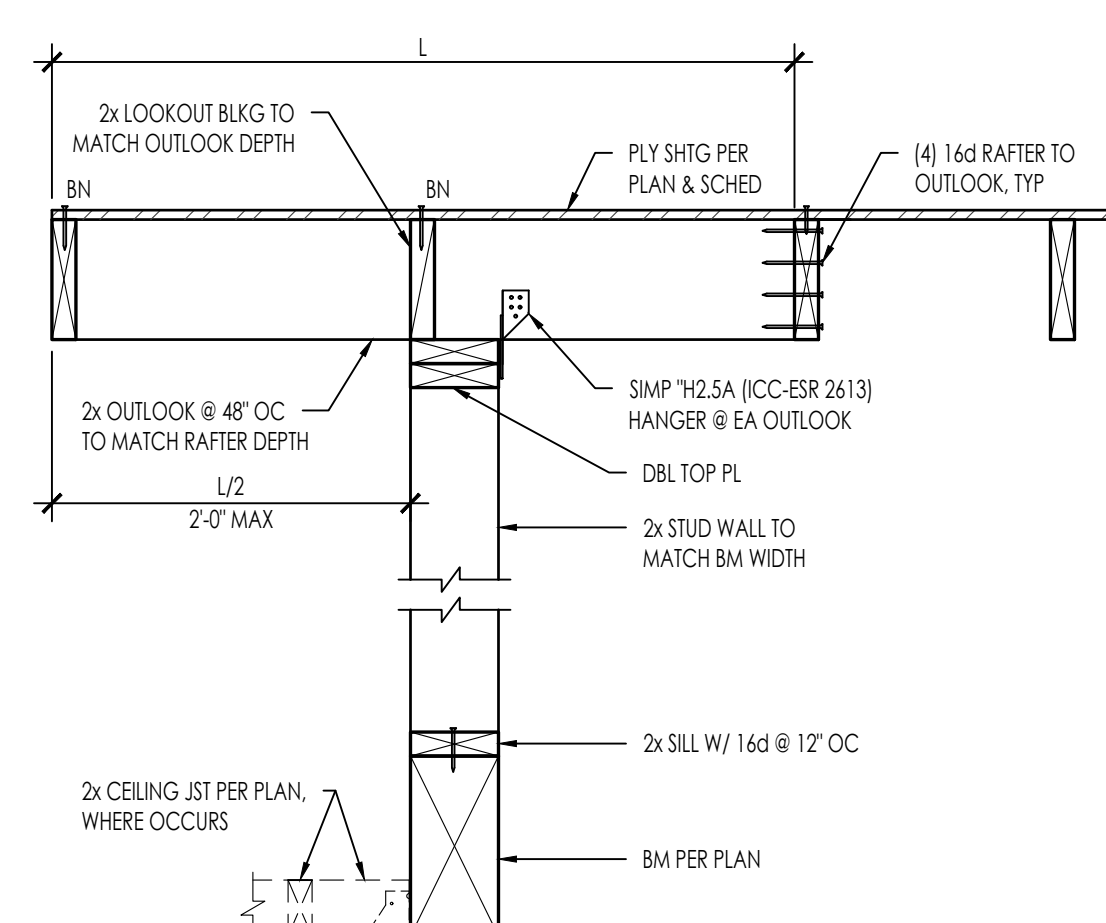
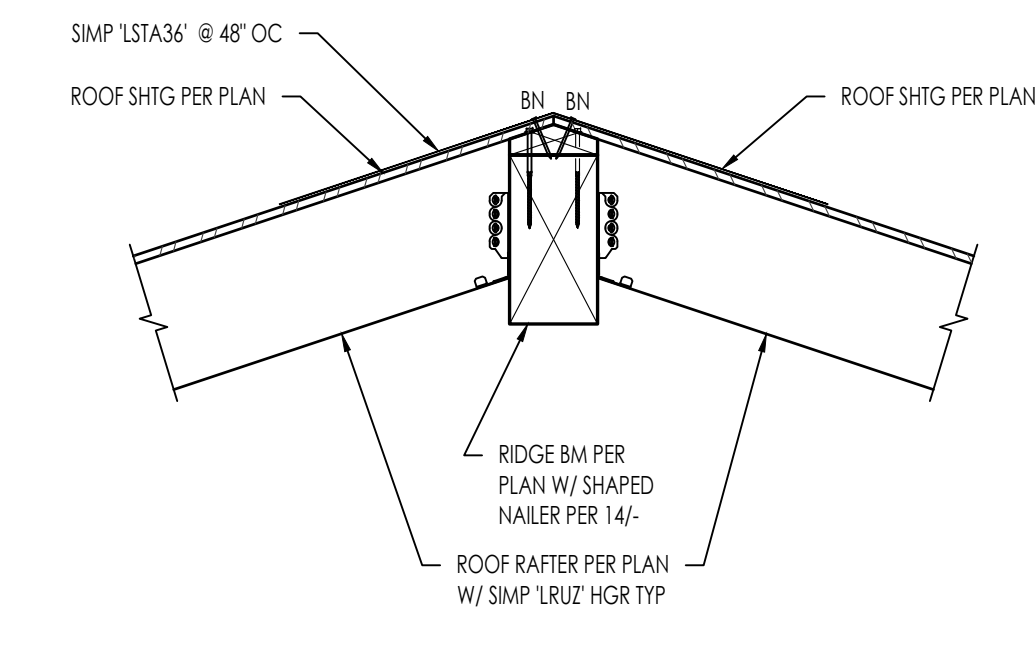
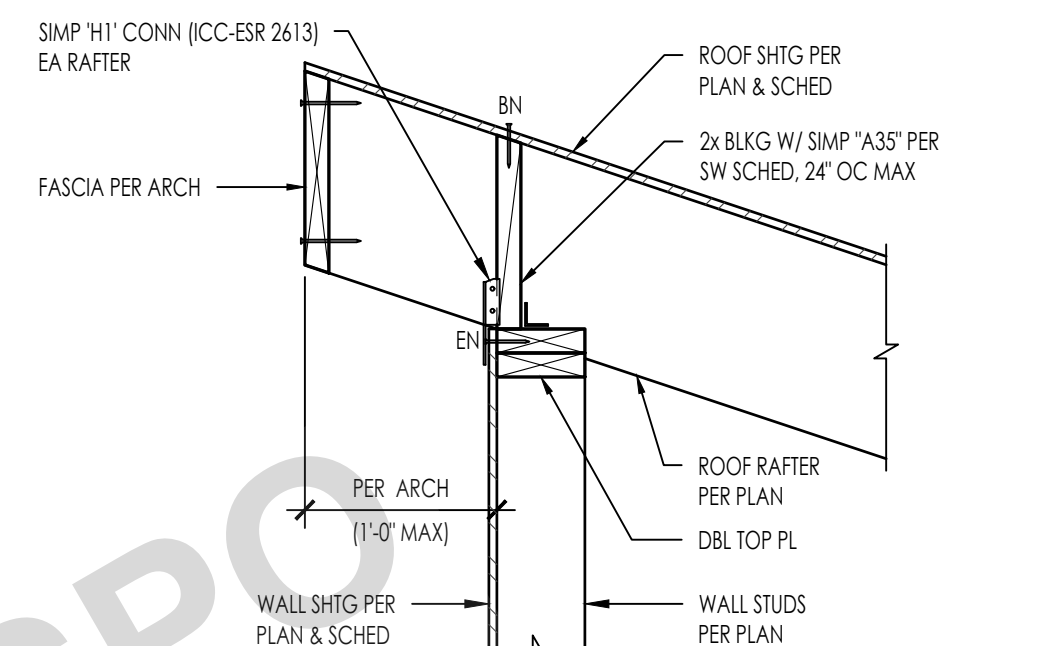
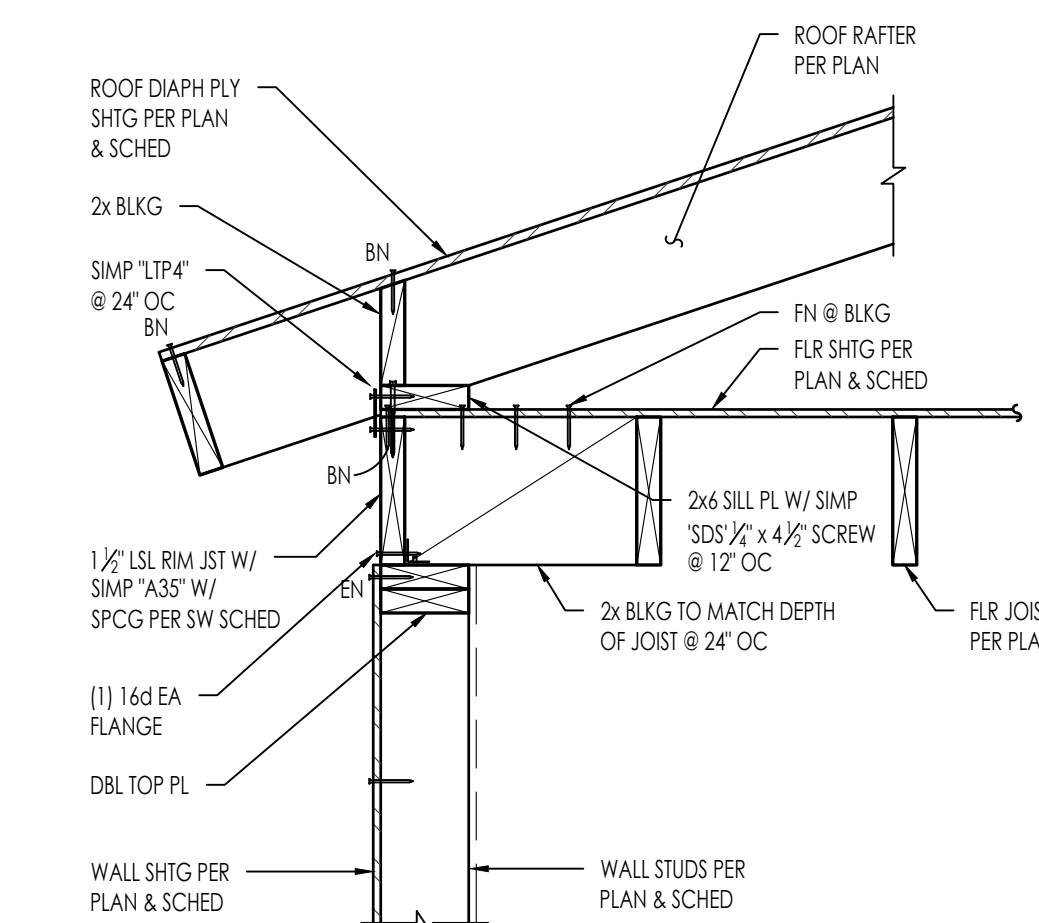
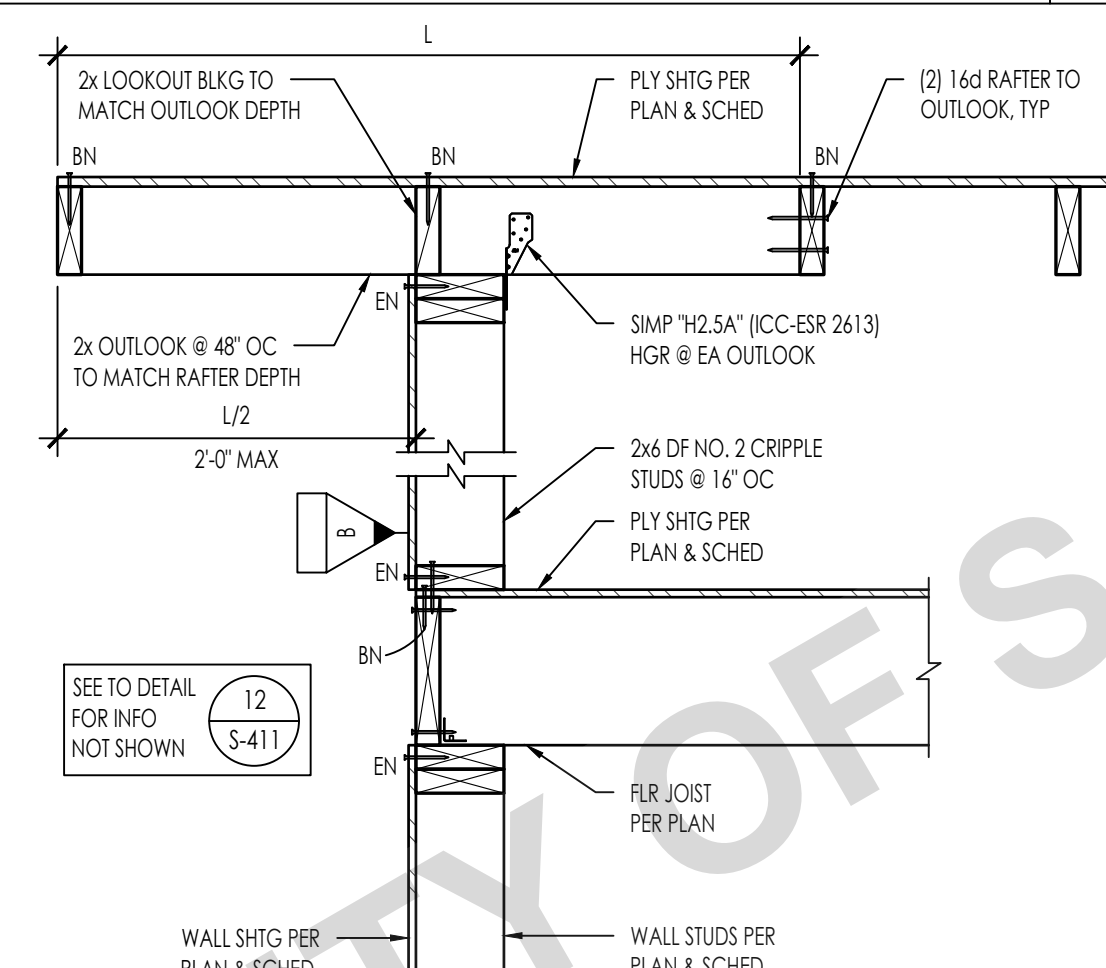
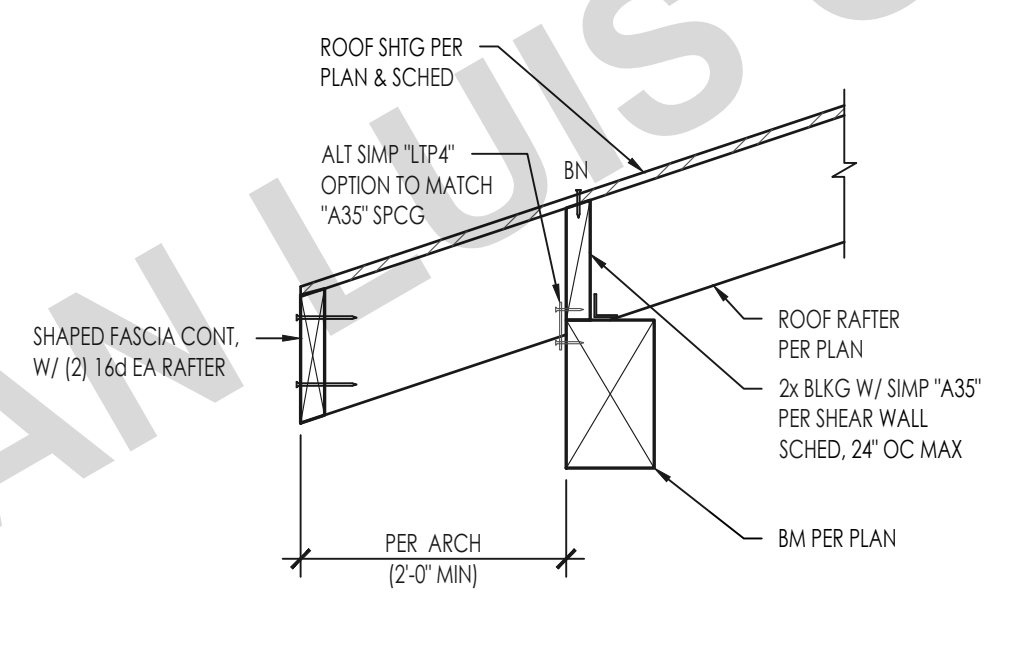
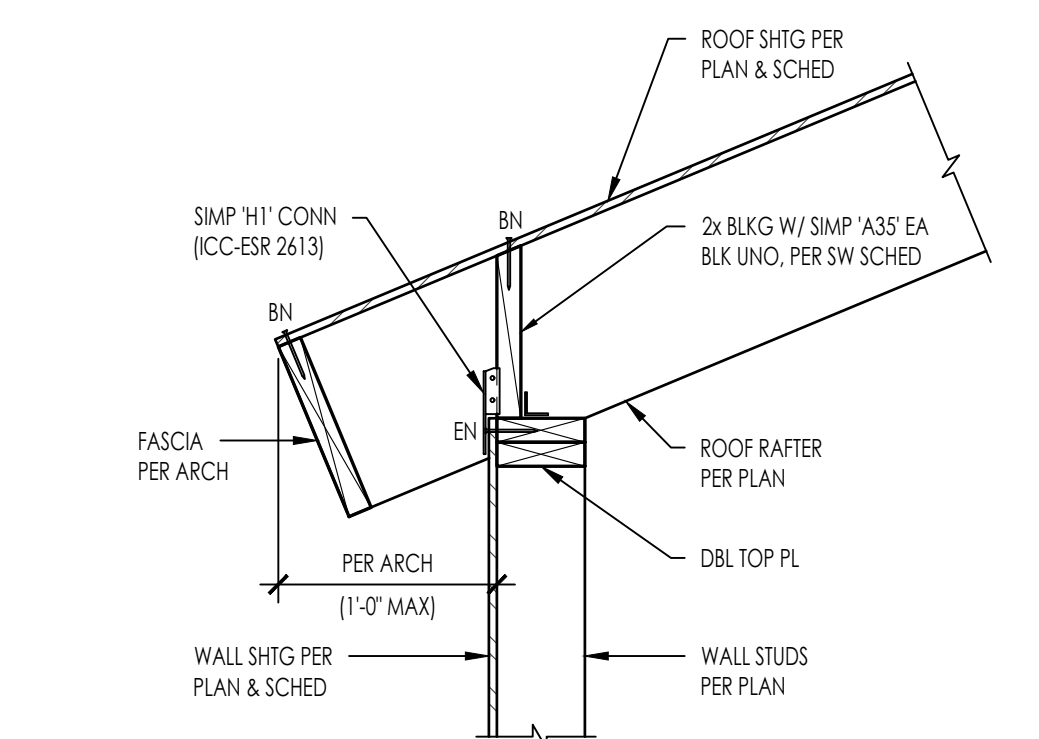
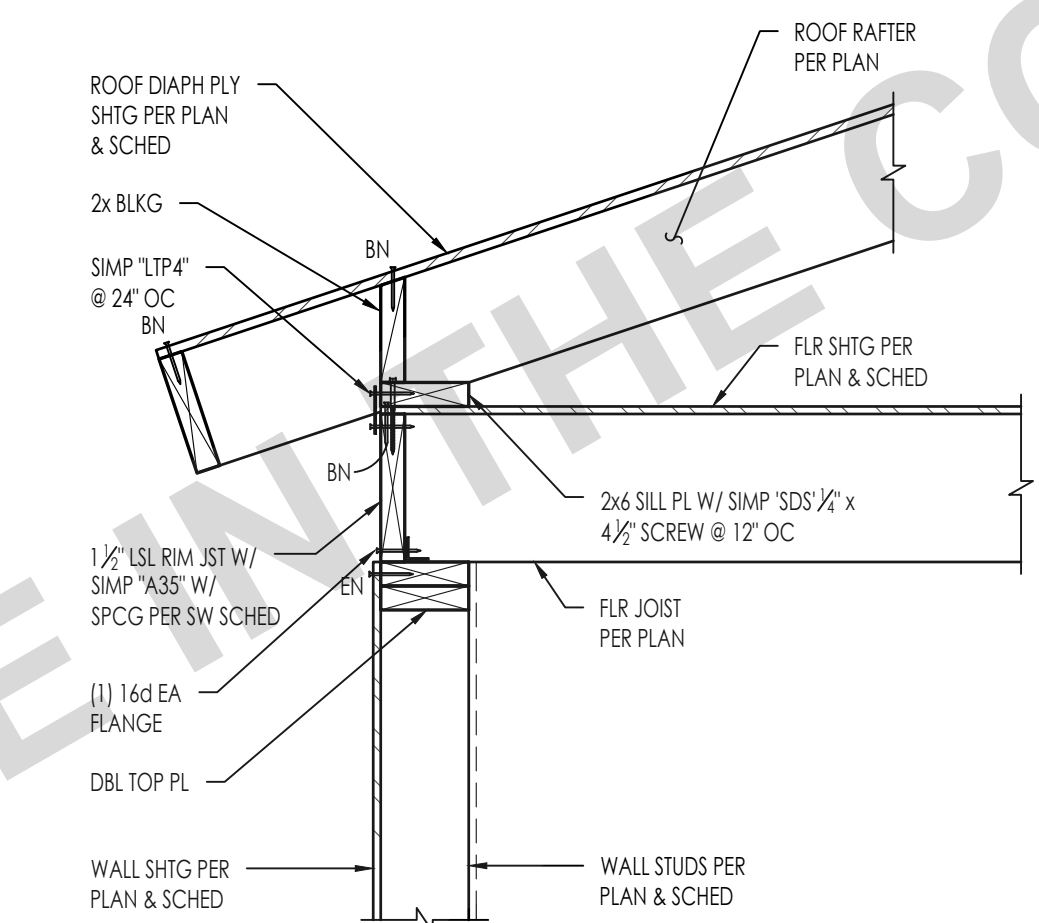
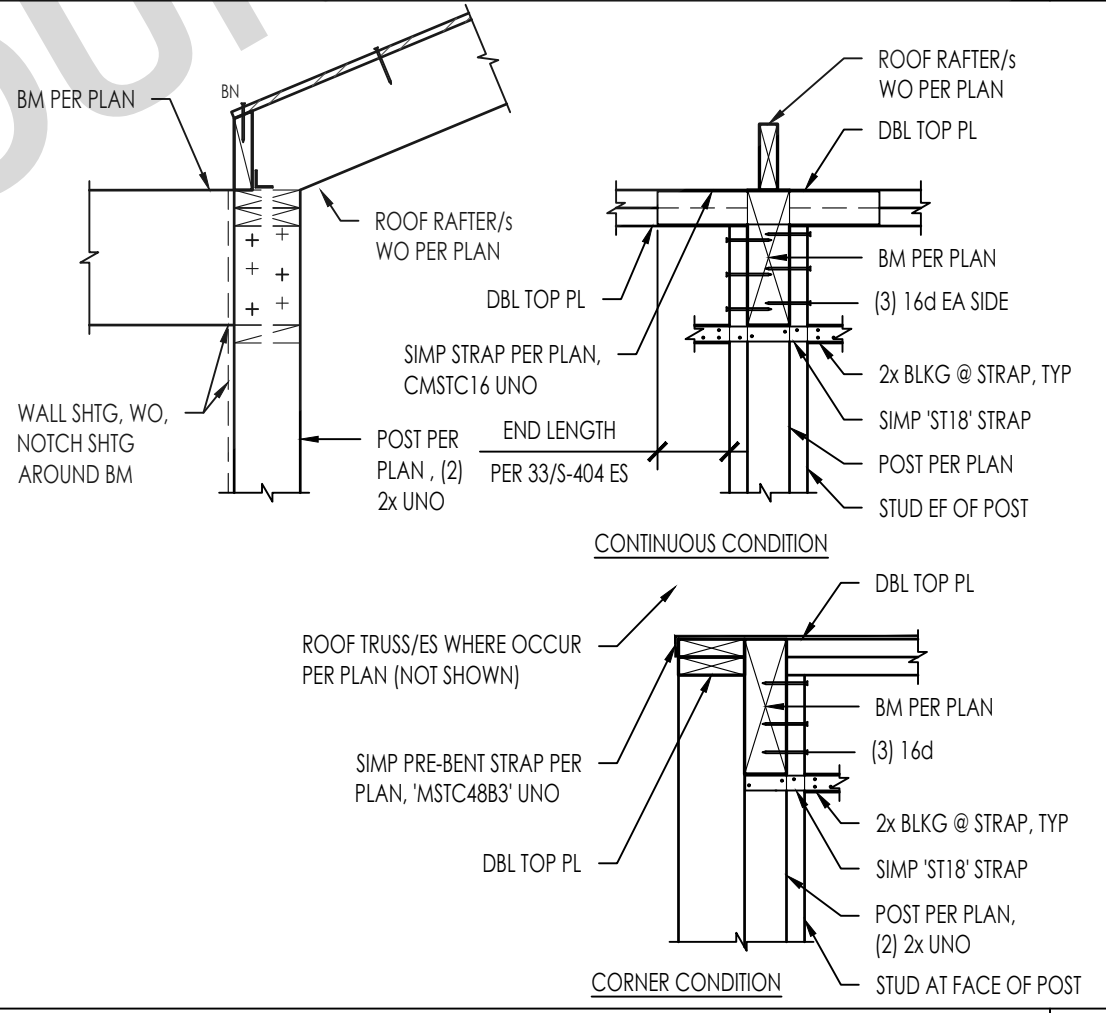
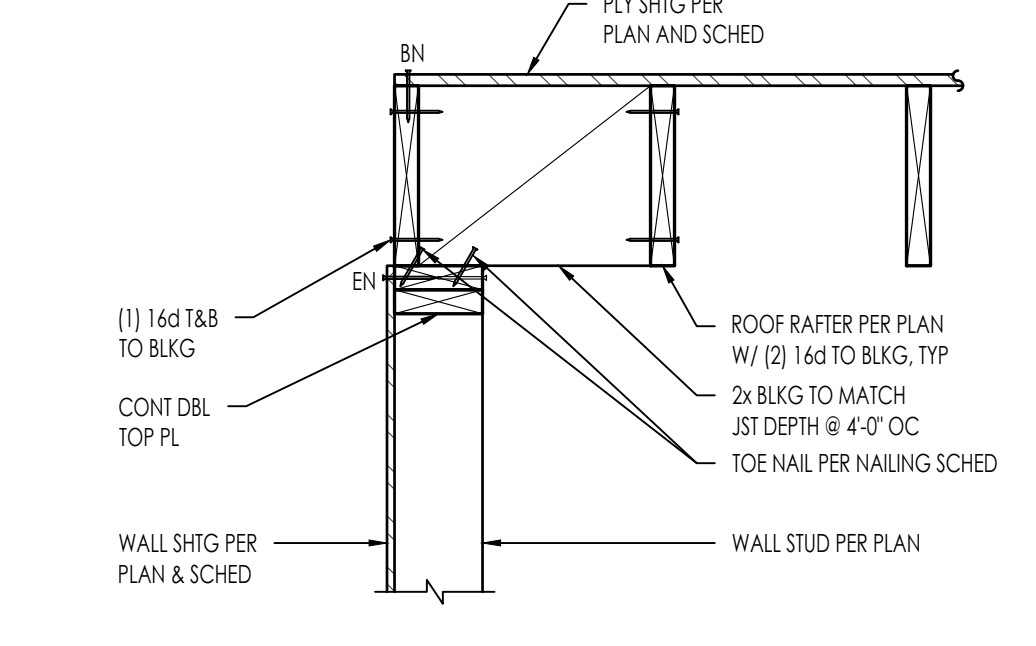
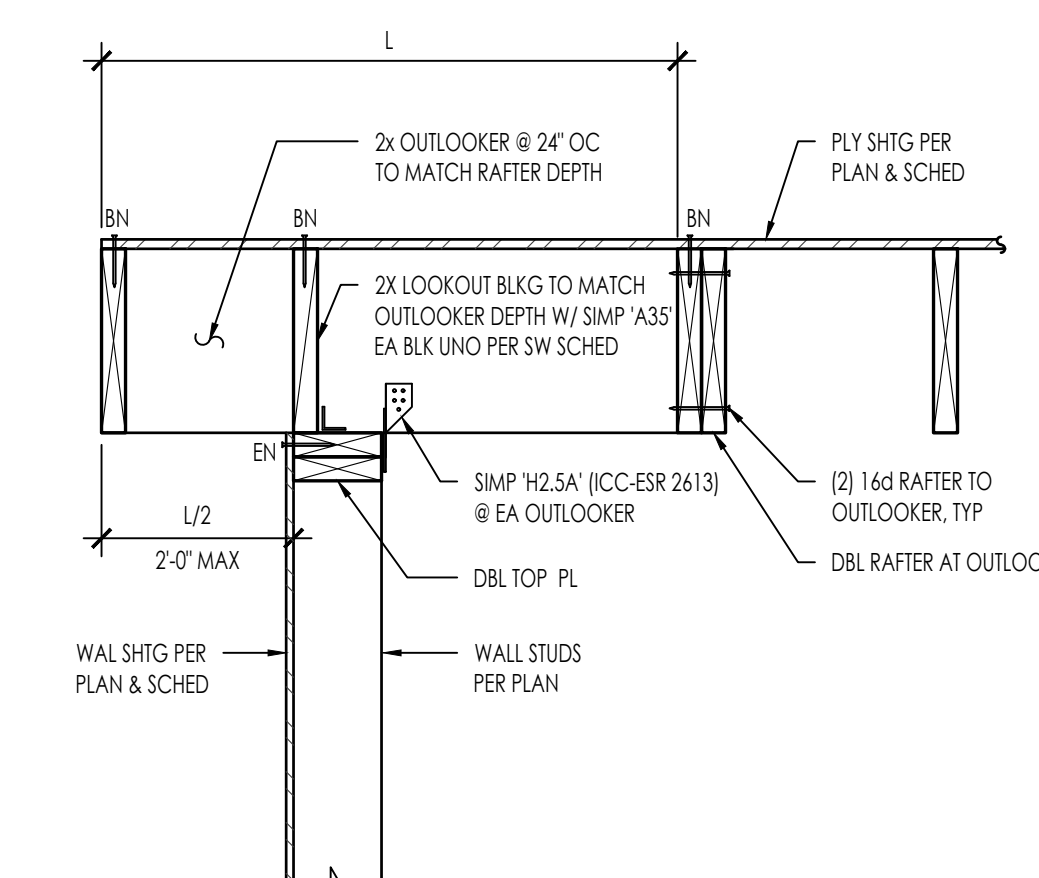
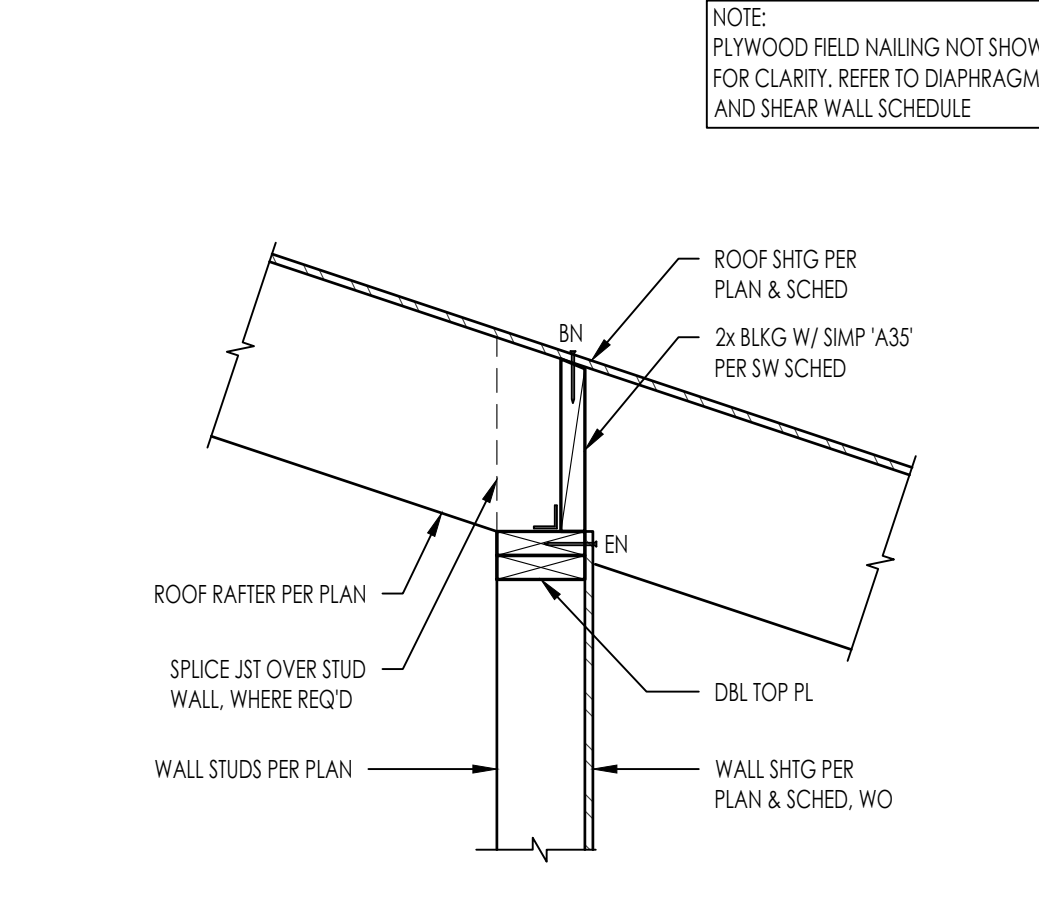
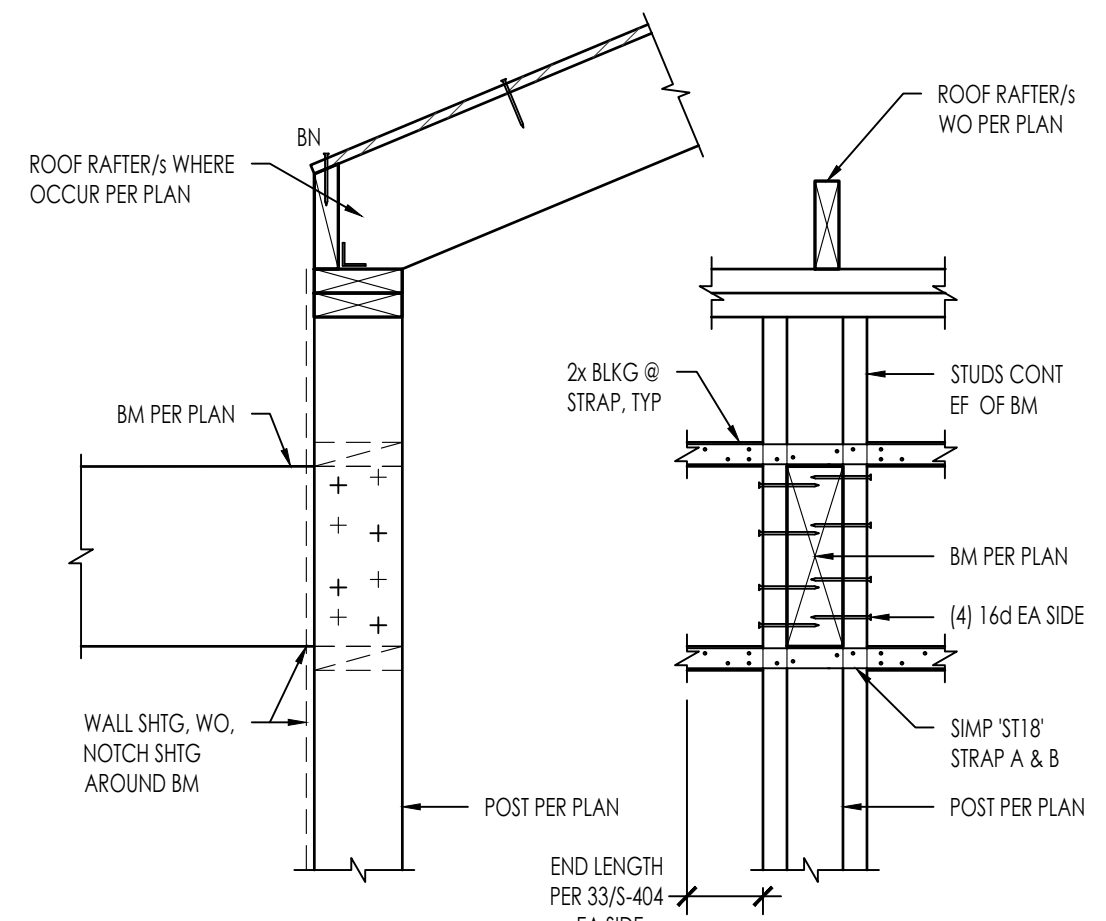
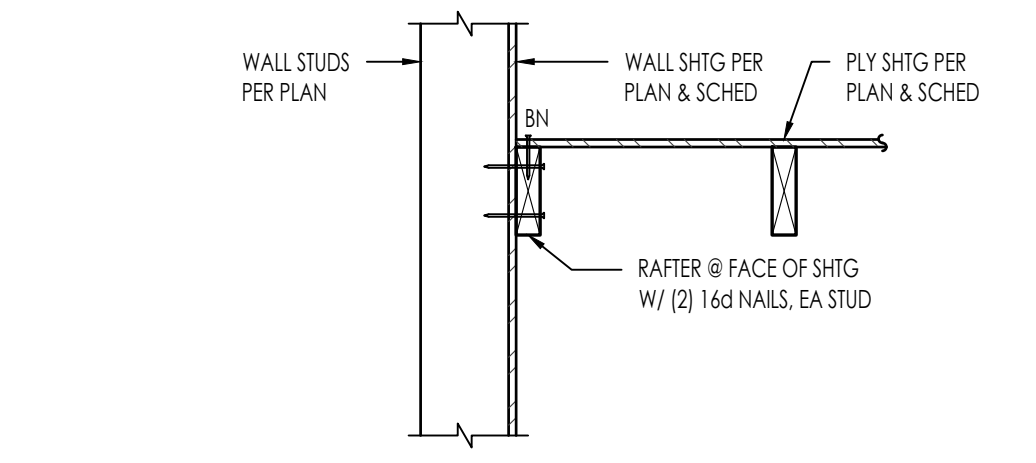
S-411




MARK	STRAP MODEL	FASTENERS	END LENGTH (in)	ALLOWABLE TENSION LOADS (lbs)
	CS16	22-10d	11	1,705
	CS14	30-10d	15	2,490
	CMSTC16	50-16d SINKER	20	4,585
	CMST14	56-10d	26	6,490
		66-10d	30	
		74-16d	33	
	CMST12	86-10d	39	9,215



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<div>NOTE: PLYWOOD FIELD NAILING NOT SHOWN FOR CLARITY, REFER TO DIAPHRAGM AND SHEAR WALL SCHEDULE</div>  <div>INTERIOR SHEAR WALL (JOIST PARALLEL) 2727-01-C022-5401-535</div> <div>1" = 1'-0"</div> <div>51</div>		 <div>BEAM TO POST CONNECTION 2727-01-C022-5401-415</div> <div>1" = 1'-0"</div> <div>41</div>		 <div>OUTLOOK AT PORCH ROOF 2727-01-C022-5401-315</div> <div>NTS or 1" = 1'-0"</div> <div>31</div>		 <div>ROOF RIDGE 2727-01-C022-5401-215</div> <div>1" = 1'-0"</div> <div>21</div>		<div>NOTE: PLYWOOD FIELD NAILING NOT SHOWN FOR CLARITY, REFER TO DIAPHRAGM AND SHEAR WALL SCHEDULE</div>  <div>RAFTER @ EXTERIOR SHEAR WALL 2727-01-C022-5401-11</div> <div>1" = 1'-0"</div> <div>11</div>	
<div>52</div>		 <div>ROOF RAFTER ABOVE FLOOR (PARALLEL JOIST) 2727-01-C022-5401-455</div> <div>1" = 1'-0"</div> <div>42</div>		 <div>LOW ROOF @ FLOOR FRAMING 2727-01-C022-5401-325</div> <div>1" = 1'-0"</div> <div>32</div>		 <div>ROOF RAFTER ABOVE BEAM 2727-01-C022-5401-225</div> <div>1" = 1'-0"</div> <div>22</div>		 <div>RAFTER @ EXTERIOR SHEAR WALL 2727-01-C022-5401-125</div> <div>1" = 1'-0"</div> <div>12</div>	
<div>53</div>		 <div>ROOF RAFTER ABOVE FLOOR (PARA JOIST) 2727-01-C022-5401-455</div> <div>1" = 1'-0"</div> <div>43</div>		 <div>BEAM POCKET THROUGH EXTERIOR WALL 2727-01-C022-5401-335</div> <div>NTS or 3/4" = 1'-0"</div> <div>33</div>		<div>NOTE: PLYWOOD FIELD NAILING NOT SHOWN FOR CLARITY, REFER TO DIAPHRAGM AND SHEAR WALL SCHEDULE</div>  <div>EXTERIOR SHEAR WALL (JOIST PARALLEL) 2727-01-C022-5401-235</div> <div>1" = 1'-0"</div> <div>23</div>		 <div>OUTLOOKER @ EXTERIOR SHEAR WALL 2727-01-C022-5401-135</div> <div>1" = 1'-0"</div> <div>13</div>	
<div>54</div>		<div>NOTE: PLYWOOD FIELD NAILING NOT SHOWN FOR CLARITY, REFER TO DIAPHRAGM AND SHEAR WALL SCHEDULE</div>  <div>RAFTER TO WALL BELOW 2727-01-C022-5401-445</div> <div>1" = 1'-0"</div> <div>44</div>		 <div>BEAM POCKET THROUGH EXTERIOR WALL 2727-01-C022-5401-345</div> <div>NTS</div> <div>34</div>		 <div>ROOF RAFTER TO EXTERIOR WALL (PARA) 2727-01-C022-5401-345</div> <div>NTS or 1" = 1'-0"</div> <div>24</div>		<div>14</div>	



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COUNTY OF SAN LUIS OBISPO  
ACCESSORY DWELLING UNIT  
SAN LUIS OBISPO, CA

ROOF FRAMING DETAILS

DATE  
11/20/2023  
SHEET

S-421



1/18/2023 10:42:59 AM  
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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD  
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Calculation Description: Title 24 Analysis

Calculation Date/Time: 2023-10-30T13:22:57-07:00  
Input File Name: Studio Plan - Plan 6c CZ 4.rbd22x

CF1R-PRF-01E  
(Page 3 of 12)

ENERGY USE SUMMARY						
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft <sup>2</sup> · yr)	Standard Design TDV Energy (EDR2) (KTDV/ft <sup>2</sup> · yr)	Proposed Design Source Energy (EDR1) (kBtu/ft <sup>2</sup> · yr)	Proposed Design TDV Energy (EDR2) (KTDV/ft <sup>2</sup> · yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	1.17	5.53	3.41	27.19	-2.24	-21.66
Space Cooling	2.37	63.43	1.2	48.42	1.17	15.01
IAQ Ventilation	0.72	7.74	0.72	7.74	0	0
Water Heating	7.93	85.86	5.56	67.26	2.37	18.6
Self Utilization/Flexibility Credit				0		0
North Facing Efficiency Compliance Total	12.19	162.56	10.89	150.61	1.3	11.95
Space Heating	1.17	5.53	3.6	28.37	-2.43	-22.84
Space Cooling	2.37	63.43	1.24	48.91	1.13	14.52
IAQ Ventilation	0.72	7.74	0.72	7.74	0	0
Water Heating	7.93	85.86	5.58	67.25	2.35	18.61
Self Utilization/Flexibility Credit			0			0
East Facing Efficiency Compliance Total	12.19	162.56	11.14	152.27	1.05	10.29

Registration Number: CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time: Report Version: 2022.0.000  
Schema Version: rev 20220901

HERS Provider: CZ-4-03

Report Generated: 2023-10-30 13:23:25

ENERGY DESIGN RATINGS						
Standard Design	Energy Design Ratings		Compliance Margins		North Facing	East Facing
	Source Energy (EDR1)	Efficiency <sup>2</sup> EDR (EDR2) (kBtu/ft <sup>2</sup> · yr)	Source Energy (EDR1)	Efficiency <sup>2</sup> EDR (EDR2) (kBtu/ft <sup>2</sup> · yr)		
Standard Design	36	40.3	59.7	40.3	1.9	1.7
North Facing	34.6	37.3	37.8	37.3	1.4	1.2
East Facing	34.8	37.8	38.1	37.8	2.5	3.1
South Facing	34.2	35.1	56.6	35.1	5.2	3.1
West Facing	34.6	38.5	58.4	38.5	1.4	1.3

HERS Provider: Report Generated: 2023-10-30 13:23:25

Registration Date/Time: Report Version: 2022.0.000  
Schema Version: rev 20220901

CA Building Energy Efficiency Standards - 2022 Residential Compliance

Report Generated: 2023-10-30 13:23:25

CZ-4-02

ENERGY DESIGN RATINGS						
Standard Design	Energy Design Ratings		Compliance Margins		North Facing	East Facing
	Source Energy (EDR1)	Efficiency <sup>2</sup> EDR (EDR2) (kBtu/ft <sup>2</sup> · yr)	Source Energy (EDR1)	Efficiency <sup>2</sup> EDR (EDR2) (kBtu/ft <sup>2</sup> · yr)		
Standard Design	36	40.3	59.7	40.3	1.9	1.7
North Facing	34.6	37.3	37.8	37.3	1.4	1.2
East Facing	34.8	37.8	38.1	37.8	2.5	3.1
South Facing	34.2	35.1	56.6	35.1	5.2	3.1
West Facing	34.6	38.5	58.4	38.5	1.4	1.3

HERS Provider: Report Generated: 2023-10-30 13:23:25

Registration Date/Time: Report Version: 2022.0.000  
Schema Version: rev 20220901

CA Building Energy Efficiency Standards - 2022 Residential Compliance

Report Generated: 2023-10-30 13:23:25

CZ-4-01

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD  
Project Name: Residential Building  
Calculation Description: Title 24 Analysis

Calculation Date/Time: 2023-10-30T13:22:57-07:00  
Input File Name: Studio Plan - Plan 6c CZ 4.rbd22x

CF1R-PRF-01E  
(Page 6 of 12)

01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	Exception	Module Type	Array Type	Power Electronics	CFI	Asphalt (deg)	Tilt: Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)	Annual Solar Access (%)
0		Standard (14-17%)	Fixed	none	true	n/a	n/a	n/a	n/a	n/a	

**REQUIRED SPECIAL FEATURES**

The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.

- PV exception 2: No PV required when minimum PV size (Section 150.1(c)(14)) < 1.8 kWdc (0 kW)
- Variable capacity heat pump compliance option (verification details from VCHP Staff report, Appendix B, and RA3)
- Compact distribution system basic credit
- Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater; specific brand/model, or equivalent, must be installed

**HERS FEATURE SUMMARY**

The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry

- Quality insulation installation (QII)
- Indoor air quality ventilation
- Kitchen range hood
- Verified EER/EER2
- Verified SEER/SEER2
- Verified Refrigerant Charge
- Airflow in habitable rooms (SC3.1.4.1.7)
- Verified HSPF2
- Verified heat pump rated heating capacity
- Wall-mounted thermostat in zones greater than 150 ft<sup>2</sup> (SC3.4.5)
- Ductless indoor units located entirely in conditioned space (SC3.1.4.1.8)

BUILDING - FEATURES INFORMATION						
01	02	03	04	05	06	07
Project Name	Conditioned Floor Area (ft <sup>2</sup> )	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
Residential Building	235	1	1	1	1	1

Registration Number: CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time: Report Version: 2022.0.000  
Schema Version: rev 20220901

HERS Provider: CZ-4-06

Report Generated: 2023-10-30 13:23:25

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD  
Project Name: Residential Building  
Calculation Description: Title 24 Analysis

Calculation Date/Time: 2023-10-30T13:22:57-07:00  
Input File Name: Studio Plan - Plan 6c CZ 4.rbd22x

CF1R-PRF-01E  
(Page 5 of 12)

ENERGY USE INTENSITY				
	Standard Design (kBtu/ft <sup>2</sup> · yr)	Proposed Design (kBtu/ft <sup>2</sup> · yr)	Compliance Margin (kBtu/ft <sup>2</sup> · yr)	Margin Percentage
<b>North Facing</b>				
Gross EU1 <sup>1</sup>	50.51	47.91	2.6	5.15
Net EU1 <sup>2</sup>	50.51	47.91	2.6	5.15
<b>East Facing</b>				
Gross EU1 <sup>1</sup>	50.51	48.22	2.29	4.53
Net EU1 <sup>2</sup>	50.51	48.22	2.29	4.53
<b>South Facing</b>				
Gross EU1 <sup>1</sup>	50.51	47.48	3.03	6
Net EU1 <sup>2</sup>	50.51	47.48	3.03	6
<b>West Facing</b>				
Gross EU1 <sup>1</sup>	50.51	48.23	2.28	4.51
Net EU1 <sup>2</sup>	50.51	48.23	2.28	4.51

Notes

1. Gross EU1 is Energy Use Total (not including PV) / Total Building Area.
2. Net EU1 is Energy Use Total (including PV) / Total Building Area.

Registration Number: CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time: Report Version: 2022.0.000  
Schema Version: rev 20220901

HERS Provider: CZ-4-05

Report Generated: 2023-10-30 13:23:25

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD  
Project Name: Residential Building  
Calculation Description: Title 24 Analysis

Calculation Date/Time: 2023-10-30T13:22:57-07:00  
Input File Name: Studio Plan - Plan 6c CZ 4.rbd22x

CF1R-PRF-01E  
(Page 4 of 12)

ENERGY USE SUMMARY						
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft <sup>2</sup> · yr)	Standard Design TDV Energy (EDR2) (KTDV/ft <sup>2</sup> · yr)	Proposed Design Source Energy (EDR1) (kBtu/ft <sup>2</sup> · yr)	Proposed Design TDV Energy (EDR2) (KTDV/ft <sup>2</sup> · yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	1.17	5.53	3.19	24.72	-2.02	-19.19
Space Cooling	2.37	63.43	1.06	42.09	1.31	21.34
IAQ Ventilation	0.72	7.74	0.72	7.74	0	0
Water Heating	7.93	85.86	5.56	67.13	2.37	18.73
Self Utilization/Flexibility Credit				0		0
South Facing Efficiency Compliance Total	12.19	162.56	10.53	141.68	1.66	20.88
Space Heating	1.17	5.53	3.21	25.11	-2.04	-19.58
Space Cooling	2.37	63.43	1.45	55.52	0.92	7.91
IAQ Ventilation	0.72	7.74	0.72	7.74	0	0
Water Heating	7.93	85.86	5.55	67	2.38	18.86
Self Utilization/Flexibility Credit				0		0
West Facing Efficiency Compliance Total	12.19	162.56	10.93	155.37	1.26	7.19

Registration Number: CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time: Report Version: 2022.0.000  
Schema Version: rev 20220901

HERS Provider: CZ-4-04

Report Generated: 2023-10-30 13:23:25

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD  
Project Name: Residential Building  
Calculation Description: Title 24 Analysis

Calculation Date/Time: 2023-10-30T13:22:57-07:00  
Input File Name: Studio Plan - Plan 6c CZ 4.rbd22x

CF1R-PRF-01E  
(Page 9 of 12)

01	02	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Quality R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
R-19 Wall	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O. C.	R-19	None / None	0.074	Inside Finish: Gypsum Board Cavity / Frame: R-19 in 5-1/2 in. (R-18) / 2x6 Exterior Finish: 3 Coat Stucco
R-38 Roof No Attic	Cathedral Ceilings	Wood Framed Ceiling	2x12 @ 16 in. O. C.	R-38	None / None	0.03	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: R-38 / 2x12 Inside Finish: Gypsum Board

BUILDING ENVELOPE - HERS VERIFICATION				
01	02	03	04	05
Quality Insulation Installation (QII)	High R-value Spray Foam Insulation	Building Envelope Air Leakage	CFM50	CFM50
Required	Not Required	N/A	n/a	n/a

WATER HEATING SYSTEMS								
01	02	03	04	05	06	07	08	09
Name	System Type	Distribution Type	Water Heater Name	Number of Units	Solar Heating System	Compact Distribution	HERS Verification	Water Heater Name (#)
DHW Sys 1	Domestic Hot Water (DHW)	Standard	DHW Heater 1	1	n/a	Basic	n/a	DHW Heater 1 (1)

Registration Number: CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time: Report Version: 2022.0.000  
Schema Version: rev 20220901

HERS Provider: CZ-4-09

Report Generated: 2023-10-30 13:23:25

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD  
Project Name: Residential Building  
Calculation Description: Title 24 Analysis

Calculation Date/Time: 2023-10-30T13:22:57-07:00  
Input File Name: Studio Plan - Plan 6c CZ 4.rbd22x

CF1R-PRF-01E  
(Page 8 of 12)

FENESTRATION / GLAZING													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft <sup>2</sup> )	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
Window	Window	Front Wall	Front	0			1	9	0.3	NFRC	0.23	NFRC	Bug Screen
Front Door	Window	Front Wall	Front	0			1	40	0.3	NFRC	0.23	NFRC	Bug Screen
Window 2	Window	Left Wall	Left	90			1	6	0.3	NFRC	0.23	NFRC	Bug Screen
Window 3	Window	Rear Wall	Back	180			1	6	0.3	NFRC	0.23	NFRC	Bug Screen
Window 4	Window	Rear Wall	Back	180			1	10	0.3	NFRC	0.23	NFRC	Bug Screen
Upper Window	Window	Rear Wall	Back	180			1	9	0.3	NFRC	0.23	NFRC	Bug Screen
Window 5	Window	Right Wall	Right	270			1	25	0.3	NFRC	0.23	NFRC	Bug Screen
Window 6	Window	Right Wall	Right	270			1	6	0.3	NFRC	0.23	NFRC	Bug Screen

OPAQUE DOORS			
01	02	03	04
Name	Side of Building	Area (ft <sup>2</sup> )	U-factor
Insulated Door HPWH	Rear Wall	20	0.2

SLAB FLOORS							
01	02	03	04	05	06	07	08
Name	Zone	Area (ft <sup>2</sup> )	Perimeter (ft)	Edge Insul. R-value and Depth	Edge Insul. R-value and Depth	Carpeted Fraction	Heated
Slab	Zone 1	235	80	none	0	80%	No

Registration Number: CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time: Report Version: 2022.0.000  
Schema Version: rev 20220901

HERS Provider: CZ-4-08

Report Generated: 2023-10-30 13:23:25

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD  
Project Name: Residential Building  
Calculation Description: Title 24 Analysis

Calculation Date/Time: 2023-10-30T13:22:57-07:00  
Input File Name: Studio Plan - Plan 6c CZ 4.rbd22x

CF1R-PRF-01E  
(Page 7 of 12)

ZONE INFORMATION						
01	02	03	04	05	06	07
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft <sup>2</sup> )	Avg. Ceiling Height	Water Heating System 1	Status
Zone 1	Conditioned	HVAC System1	235	8	DHW Sys 1	New

01	02	03	04	05	06	07	08
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft <sup>2</sup> )	Window and Door Area (ft2)	Tilt (deg)
Front Wall	Zone 1	R-19 Wall	0	Front	210	49	90
Left Wall	Zone 1	R-19 Wall	90	Left	160	6	90
Rear Wall	Zone 1	R-19 Wall	180	Back	210	45	90
Right Wall	Zone 1	R-19 Wall	270	Right	160	31	90
Exterior Wall	Zone 1	R-19 Wall	90	Left	20	0	90
Exterior Wall 2	Zone 1	R-19 Wall	270	Right	20	0	90

OPAQUE SURFACES - CATHEDRAL CEILINGS										
01	02	03	04	05	06	07	08	09	10	11
Name	Zone	Construction	Azimuth	Orientation	Area (ft <sup>2</sup> )	Skylight Area (ft <sup>2</sup> )	Roof Rise (x in 12)	Roof Reflectance	Roof Emittance	Cool Roof
Roof	Zone 1	R-38 Roof No Attic	90	Left	130	0	6	0.1	0.85	No
Roof 2	Zone 1	R-38 Roof No Attic	180	Back	10	0	3	0.1	0.85	No
Roof 3	Zone 1	R-38 Roof No Attic	270	Right	130	0	6	0.1	0.85	No

Registration Number: CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time: Report Version: 2022.0.000  
Schema Version: rev 20220901

HERS Provider: CZ-4-07

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COUNTY OF SAN LUIS OBISPO  
ACCESSORY DWELLING UNIT  
SAN LUIS OBISPO, CA

ENERGY COMPLIANCE - PLAN 6C

DATE  
11/28/2023

SHEET

T24 - 609



11/28/2023 10:43:11 AM  
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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD  
Project Name: Residential Building  
Calculation Description: Title 24 Analysis

CF1R-PRF-01E  
Calculation Date/Time: 2023-10-30 13:22:57-07:00  
Input File Name: Studio Plan - Plan 6c CZ 4.ribd22x  
(Page 12 of 12)

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Jennifer Rennick	Documentation Author Signature:
Company: In Balance Green Consulting	Signature Date: 10/30/2023
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
I certify the following under penalty of perjury, under the laws of the State of California:	
1. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance.	
2. I certify that the energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.	
3. 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.	
Responsible Designer Name:	Responsible Designer Signature:
Company:	Date Signed:
Address:	License:
City/State/Zip:	Phone:

Registration Number: CZ-4-12  
CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time: 2023-10-30 13:23:25  
Report Version: 2022.0.000  
Schema Version: rev 20220901

HERS Provider: CZ-4-12  
Report Generated: 2023-10-30 13:23:25

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD  
Project Name: Residential Building  
Calculation Description: Title 24 Analysis

CF1R-PRF-01E  
Calculation Date/Time: 2023-10-30 13:22:57-07:00  
Input File Name: Studio Plan - Plan 6c CZ 4.ribd22x  
(Page 11 of 12)

HVAC - HEAT PUMPS												
01	02	03	04	05	06	07	08	09	10	11	12	13
Name	System Type	Number of Units	Heating Efficiency Type	HSPF/HSPF2/COP	Cap 47	Cap 17	Cooling Efficiency Type	SEER/SEER2	EER/EER2/CEER	Zonally Controlled	Compressor Type	HERS Verification
Heat Pump System 1	VCHP-ductless	1	HSPF2	8	15000	13400	EER2/SEER2	16	12.4	Not Zonal	Multi-speed	Heat Pump System 1-hers-htpump
HVAC HEAT PUMPS - HERS VERIFICATION												
01	02	03	04	05	06	07	08	09				
Name	Verified Airflow	Airflow Target	Verified EER/EER2	Verified SEER/SEER2	Verified Refrigerant Charge	Verified HSPF/HSPF2	Verified Heating Cap 47	Verified Heating Cap 17				
Heat Pump System 1-hers-htpump	Not Required	0	Required	Required	Yes	Yes	Yes	Yes				
VARIABLE CAPACITY HEAT PUMP COMPLIANCE OPTION - HERS VERIFICATION												
01	02	03	04	05	06	07	08	09	10			
Name	Certified Low-Static VCHP System	Airflow to Habitable Rooms	Ductless Units in Conditioned Space	Wall Mount Thermostat	Air Filter Sizing & Pressure Drop Rating	Low Leakage Ducts in Conditioned Space	Minimum Airflow per RA3.3 and SC3.3.3.4.1	Certified non-continuous Fan	Indoor Fan not Running Continuously			
Heat Pump System 1	Not required	Required	Required	Required	Not required	Not required	Not required	Not required	Not required			
INDOOR AIR QUALITY (IAQ) FANS												
01	02	03	04	05	06	07	08	09				
Dwelling Unit	Airflow (CFM)	Fan Efficacy (W/CFM)	IAQ Fan Type	Includes Heat/Energy Recovery?	IAQ Recovery Effectiveness - SRE/ASRE	Includes Fault Indicator Display?	HERS Verification	Status				
Sfam IAQVentRpt	22	0.35	Exhaust	No	n/a / n/a	No	Yes					

Registration Number: CZ-4-11  
CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time: 2023-10-30 13:23:25  
Report Version: 2022.0.000  
Schema Version: rev 20220901

HERS Provider: CZ-4-11  
Report Generated: 2023-10-30 13:23:25

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD  
Project Name: Residential Building  
Calculation Description: Title 24 Analysis


CF1R-PRF-01E  
Calculation Date/Time: 2023-10-30 13:22:57-07:00  
Input File Name: Studio Plan - Plan 6c CZ 4.ribd22x  
(Page 10 of 12)

WATER HEATERS - NEEA HEAT PUMP								
01	02	03	04	05	06	07	08	
Name	# of Units	Tank Vol. (gal)	NEEA Heat Pump Brand	NEEA Heat Pump Model	Tank Location	Duct Inlet Air Source	Duct Outlet Air Source	
DHW Heater 1	1	40	Generic	Tier3Generic40	TankZone	Zone 1	Zone 1	
WATER HEATING - COMPACT DISTRIBUTION								
01	02	03	04	05	06	07		
Dwelling Unit type	Water Heating System Name	Master Bath distance of furthest fixture to Water Heater (ft)	Kitchen distance of furthest fixture to Water Heater (ft)	Furthest Third furthest fixture to Water Heater (ft)	Compactness Factor	HERS Verification		
Dwelling	DHW Sys 1	n/a	n/a	n/a	0.7	n/a		
WATER HEATING - HERS VERIFICATION								
01	02	03	04	05	06	07		
Name	Pipe Insulation	Parallel Piping	Compact Distribution	Compact Distribution Type	Recirculation Control	Shower Drain Water Heat Recovery		
DHW Sys 1 - 1/1	Not Required	Not Required	Not Required	Basic	Not Required	Not Required		
SPACE CONDITIONING SYSTEMS								
01	02	03	04	05	06	07	08	09
Name	System Type	Heating Unit Name	Heating Equipment Count	Cooling Unit Name	Cooling Equipment Count	Fan Name	Distribution Name	Required Thermostat Type
HVAC System1	Heat pump heating cooling	Heat Pump System 1	1	Heat Pump System 1	1	n/a	n/a	Setback

Registration Number: CZ-4-10  
CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time: 2023-10-30 13:23:25  
Report Version: 2022.0.000  
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COUNTY OF SAN LUIS OBISPO  
ACCESSORY DWELLING UNIT  
SAN LUIS OBISPO, CA

ENERGY COMPLIANCE - PLAN 6C

DATE  
11/28/2023

SHEET

T24 - 610



1/12/2023 10:45:25 AM  
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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Residential Building

Calculation Date/Time: 2023-10-30T13:16:38-07:00

CF1R-PRF-01E

Calculation Description: Title 24 Analysis

Input File Name: Studio Plan - Plan 6c CZ 5.ribd22x

(Page 3 of 12)

ENERGY USE SUMMARY						
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft²-yr)	Standard Design TDV Energy (EDR2) (KTDV/ft²-yr)	Proposed Design Source Energy (EDR1) (kBtu/ft²-yr)	Proposed Design TDV Energy (EDR2) (KTDV/ft²-yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	1.07	5.26	3.44	27.62	-2.37	-22.36
Space Cooling	0.38	11.43	0.08	2.28	0.3	9.15
IAQ Ventilation	0.72	7.8	0.72	7.8	0	0
Water Heating	9.04	101.4	6.09	77.29	2.95	24.11
Self Utilization/Flexibility Credit				0		0
North Facing Efficiency Compliance Total	11.21	125.89	10.33	114.99	0.88	10.9
Space Heating	1.07	5.26	3.76	29.31	-2.69	-24.05
Space Cooling	0.38	11.43	0.09	2.52	0.29	8.91
IAQ Ventilation	0.72	7.8	0.72	7.8	0	0
Water Heating	9.04	101.4	6.1	77.28	2.94	24.12
Self Utilization/Flexibility Credit				0		0
East Facing Efficiency Compliance Total	11.21	125.89	10.67	116.91	0.54	8.98

Registration Number: CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220901

HERS Provider: CZ-5-03

Report Generated: 2023-10-30 13:17:06

ENERGY DESIGN RATINGS						
Standard Design	Source Energy (EDR1)	Efficiency <sup>1</sup> EDR (EDR2/Compliance)	Total EDR (EDR2/Compliance)	Compliance Margins		
				Energy Efficiency (EDR1)	Energy Efficiency (EDR2)	Energy Efficiency (EDR2)
Standard Design	34	39.6	62.1	64	1.1	3.7
North Facing	34	39.6	62.1	64	1.1	3.7
East Facing	34.3	37.3	61.1	61.3	1.6	5.4
South Facing	33.5	37.3	61.1	61.3	1.6	5.4
West Facing	33.6	37.7	61.3	61.3	1.5	5

HERS Provider: Report Generated: 2023-10-30 13:17:06

Registration Number: CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220901

CZ-5-02

GENERAL INFORMATION						
01	Project Name	Residential Building	Run Title	Title 24 Analysis	Standard Design	2022
02	Project Location	CZ 5	Zone	20	Standard Design	2022
03	Climate Zone	2	Zone	20	Standard Design	2022
04	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
05	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
06	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
07	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
08	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
09	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
10	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
11	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
12	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
13	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
14	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
15	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
16	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
17	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
18	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
19	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
20	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
21	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
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23	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
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25	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
26	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
27	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
28	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
29	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
30	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
31	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
32	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
33	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
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49	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
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55	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
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73	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
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75	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
76	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
77	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
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79	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
80	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
81	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
82	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
83	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
84	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
85	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
86	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
87	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
88	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
89	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
90	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
91	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
92	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
93	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
94	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
95	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
96	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
97	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
98	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
99	Building Type	Single-Family	Front Orientation	East	Standard Design	2022
100	Building Type	Single-Family	Front Orientation	East	Standard Design	2022

HERS Provider: Report Generated: 2023-10-30 13:17:06

Registration Number: CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220901

CZ-5-01

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Residential Building

Calculation Description: Title 24 Analysis

Calculation Date/Time: 2023-10-30T13:16:38-07:00

Input File Name: Studio Plan - Plan 6c CZ 5.ribd22x

CF1R-PRF-01E

(Page 6 of 12)

REQUIRED PV SYSTEMS

01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	Exception	Module Type	Array Type	Power Electronics	CFI	Asluth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)	Annual Solar Access (%)
0		Standard (14-17%)	Fixed	none	true	n/a	n/a	n/a	n/a	n/a	

REQUIRED SPECIAL FEATURES

The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.

- PV exception 2: No PV required when minimum PV size (Section 150.1(c)(14) < 1.8 kWdc (0 kW))
- Variable capacity heat pump compliance option (verification details from VCHP Staff report, Appendix B, and RA3)
- Compact distribution system basic credit
- Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater; specific brand/model, or equivalent, must be installed

HERS FEATURE SUMMARY

The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry

- Quality insulation installation (QII)
- Indoor air quality ventilation
- Kitchen range hood
- Verified EER/EER2
- Verified SEER/SEER2
- Verified Refrigerant Charge
- Airflow in habitable rooms (SC3.1.4.1.7)
- Verified HSPF2
- Verified heat pump rated heating capacity
- Wall-mounted thermostat in zones greater than 150 ft² (SC3.4.5)
- Ductless indoor units located entirely in conditioned space (SC3.1.4.1.8)

BUILDING - FEATURES INFORMATION

01	02	03	04	05	06	07
Project Name	Conditioned Floor Area (ft²)	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
Residential Building	235	1	1	1	0	1

Registration Number:

Registration Date/Time:

HERS Provider:

CA Building Energy Efficiency Standards - 2022 Residential Compliance

Report Version: 2022.0.000  
Schema Version: rev 20220901

Report Generated: 2023-10-30 13:17:06

CZ-5-06

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD					CF1R-PRF-01E (Page 5 of 12)
Project Name: Residential Building			Calculation Date/Time: 2023-10-30T13:16:38-07:00		
Calculation Description: Title 24 Analysis			Input File Name: Studio Plan - Plan 6c CZ 5.ribd22x		
ENERGY USE INTENSITY					
	Standard Design (kBtu/ft <sup>2</sup> - yr )	Proposed Design (kBtu/ft <sup>2</sup> - yr )	Compliance Margin (kBtu/ft <sup>2</sup> - yr )	Margin Percentage	
North Facing					
Gross EU1 <sup>1</sup>	48.53	46.9	1.63	3.36	
Net EU1 <sup>2</sup>	48.53	46.9	1.63	3.36	
East Facing					
Gross EU1 <sup>1</sup>	48.53	47.01	1.52	3.13	
Net EU1 <sup>2</sup>	48.53	47.01	1.52	3.13	
South Facing					
Gross EU1 <sup>1</sup>	48.53	46.33	2.2	4.53	
Net EU1 <sup>2</sup>	48.53	46.33	2.2	4.53	
West Facing					
Gross EU1 <sup>1</sup>	48.53	46.46	2.07	4.27	
Net EU1 <sup>2</sup>	48.53	46.46	2.07	4.27	
Notes					
1. Gross EU1 is Energy Use Total (not including PV) / Total Building Area.					
2. Net EU1 is Energy Use Total (including PV) / Total Building Area.					

Registration Number:

CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time:

Report Version: 2022.0.000  
Schema Version: rev 20220901

HERS Provider:

Report Generated: 2023-10-30 13:17:06

CFZ-5-



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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD  
Project Name: Residential Building  
Calculation Description: Title 24 Analysis

CF1R-PRF-01E  
(Page 12 of 12)

Calculation Date/Time: 2023-10-30 13:16:38-07:00  
Input File Name: Studio Plan - Plan 6c CZ 5.ribd22x

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Jennifer Rennick	Documentation Author Signature:
Company: In Balance Green Consulting	Signature Date: 10/30/2023
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
I certify the following under penalty of perjury, under the laws of the State of California:	
1. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance.	
2. I certify that the energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.	
3. 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.	
Responsible Designer Name:	Responsible Designer Signature:
Company:	Date Signed:
Address:	License:
City/State/Zip:	Phone:

Registration Number: CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time: Report Version: 2022.0.000  
Schema Version: rev 20220901

HERS Provider: CZ-5-12

Report Generated: 2023-10-30 13:17:06

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD  
Project Name: Residential Building  
Calculation Description: Title 24 Analysis

CF1R-PRF-01E  
(Page 11 of 12)

Calculation Date/Time: 2023-10-30 13:16:38-07:00  
Input File Name: Studio Plan - Plan 6c CZ 5.ribd22x

HVAC - HEAT PUMPS												
01	02	03	04	05	06	07	08	09	10	11	12	13
Name	System Type	Number of Units	Heating			Cooling			Zonally Controlled	Compressor Type	HERS Verification	
			Heating Efficiency Type	HSPF/HSPF2/COP	Cap 47	Cap 17	Cooling Efficiency Type	SEER/SEER2/CEER				
Heat Pump System 1	VCHP-ductless	1	HSPF2	8	10900	10200	EER2/SEER2	16	12.4	Not Zonal	Multi-speed	Heat Pump System 1-hers-htpump
HVAC HEAT PUMPS - HERS VERIFICATION												
01	02	03	04	05	06	07	08	09				
Name	Verified Airflow	Airflow Target	Verified EER/EER2	Verified SEER/SEER2	Verified Refrigerant Charge	Verified HSPF/HSPF2	Verified Heating Cap 47	Verified Heating Cap 17				
Heat Pump System 1-hers-htpump	Not Required	0	Required	Required	Yes	Yes	Yes	Yes				
VARIABLE CAPACITY HEAT PUMP COMPLIANCE OPTION - HERS VERIFICATION												
01	02	03	04	05	06	07	08	09	10			
Name	Certified Low-Static VCHP System	Airflow to Habitable Rooms	Ductless Units in Conditioned Space	Wall Mount Thermostat	Air Filter Sizing & Pressure Drop Rating	Low Leakage Ducts in Conditioned Space	Minimum Airflow per RA3.3 and SC3.3.3.4.1	Certified non-continuous Fan	Indoor Fan not Running Continuously			
Heat Pump System 1	Not required	Required	Required	Required	Not required	Not required	Not required	Not required	Not required			
INDOOR AIR QUALITY (IAQ) FANS												
01	02	03	04	05	06	07	08	09				
Dwelling Unit	Airflow (CFM)	Fan Efficacy (W/CFM)	IAQ Fan Type	Includes Heat/Energy Recovery?	IAQ Recovery Effectiveness - SRE/ASRE	Includes Fault Indicator Display?	HERS Verification	Status				
Sfam IAQVentRpt	22	0.35	Exhaust	No	n/a / n/a	No	Yes					

Registration Number: CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time: Report Version: 2022.0.000  
Schema Version: rev 20220901

HERS Provider: CZ-5-11

Report Generated: 2023-10-30 13:17:06

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD  
Project Name: Residential Building  
Calculation Description: Title 24 Analysis

CF1R-PRF-01E  
(Page 10 of 12)

Calculation Date/Time: 2023-10-30 13:16:38-07:00  
Input File Name: Studio Plan - Plan 6c CZ 5.ribd22x


WATER HEATERS - NEEA HEAT PUMP								
01	02	03	04	05	06	07	08	
Name	# of Units	Tank Vol. (gal)	NEEA Heat Pump Brand	NEEA Heat Pump Model	Tank Location	Duct Inlet Air Source	Duct Outlet Air Source	
DHW Heater 1	1	40	Generic	Tier3Generic40	TankZone	Zone 1	Zone 1	
WATER HEATING - COMPACT DISTRIBUTION								
01	02	03	04	05	06	07		
Dwelling Unit type	Water Heating System Name	Master Bath distance of furthest fixture to Water Heater (ft)	Kitchen distance of furthest fixture to Water Heater (ft)	Furthest Third furthest fixture to Water Heater (ft)	Compactness Factor	HERS Verification		
Dwelling	DHW Sys 1	n/a	n/a	n/a	0.7	n/a		
WATER HEATING - HERS VERIFICATION								
01	02	03	04	05	06	07		
Name	Pipe Insulation	Parallel Piping	Compact Distribution	Compact Distribution Type	Recirculation Control	Shower Drain Water Heat Recovery		
DHW Sys 1 - 1/1	Not Required	Not Required	Not Required	Basic	Not Required	Not Required		
SPACE CONDITIONING SYSTEMS								
01	02	03	04	05	06	07	08	09
Name	System Type	Heating Unit Name	Heating Equipment Count	Cooling Unit Name	Cooling Equipment Count	Fan Name	Distribution Name	Required Thermostat Type
HVAC System1	Heat pump heating cooling	Heat Pump System 1	1	Heat Pump System 1	1	n/a	n/a	Setback

Registration Number: CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time: Report Version: 2022.0.000  
Schema Version: rev 20220901

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Report Generated: 2023-10-30 13:17:06



THESE PLANS ARE PROVIDED BY THE COUNTY OF SAN LUIS OBISPO AS PART OF THE PRE-APPROVED ADU PROGRAM AND ARE PUBLIC DOMAIN. THERE CANNOT BE A CHARGE TO PROVIDE THESE PLANS. NO ALTERATIONS TO THESE PLANS ARE ALLOWED. ALL ALTERATIONS MUST BE DONE UNDER A SEPARATE PERMIT ONCE THE BUILDING PERMIT FOR THE ADU HAS BEEN ISSUED AND FINAL INSPECTION COMPLETED. IF YOU DO NOT HAVE THE CONSTRUCTION KNOWLEDGE AND EXPERIENCE TO CONTRUCT THESE PLANS WITHOUT FURTHER DETAILS, IT IS RECOMMENDED YOU HIRE A CONTRACTOR TO DO THE CONSTRUCTION. THE CITY WILL NOT PROVIDE FURTHER INFORMATION OR DETAILS AND BUILDING INSPECTORS WILL NOT PROVIDE STEP BY STEP INSTRUCTIONS IN THE FIELD.

COUNTY OF SAN LUIS OBISPO  
ACCESSORY DWELLING UNIT  
SAN LUIS OBISPO, CA

ENERGY COMPLIANCE - PLAN 6C

DATE  
11/28/2023

SHEET

T24 - 612



New Home Single Family Version 8.0									
G2. Install Water-Efficient Fixtures									
Yes	G2.1 WaterSense Showerheads 1.8 gpm with Matching Compensation Valve	2				2			
Yes	G2.2 WaterSense Bathroom Faucets 1.0 gpm	1				1			
17.28 gpd	G2.3 WaterSense Toilets with a Maximum Performance (MP) Threshold of No Less Than 0.90 Gpm or 1.28 gpd @ 1.1 gpd	1				2			
No	G3. Pre-Planning for Graywater System	0				1			
No	G4. Operational Graywater System	0				3			
No	G5. Thermostatic Shower Valve or Auto-Diversion Tub Spout	0				1			
H. HEATING, VENTILATION, AND AIR CONDITIONING									
H1. Sealed Combustion Units									
No	H1.1 Sealed Combustion Furnace	0			1				
No	H1.2 Sealed Combustion or Heat Pump Water Heater	0			2				
No	H2. High-Performing Zoned Hydronic Radiant Heating System	0	1	1					
H3. Effective Ductwork									
No	H3.1 Duct Made on Duct Joints and Seams	0	1						
No	H3.2 Pressure Balance the Ductwork System	0	1						
No	H4. ENERGY STAR® Bathroom Fans Per HVI Standards with Air Flow Verified	0		1					
H5. Advanced Practices for Cooling									
No	H5.1 ENERGY STAR® Ceiling Fans in Living Areas and Bedrooms	0		1					
H6. Whole House Mechanical Ventilation Practices to Improve Indoor Air Quality									
Yes	H6.1 Meet ASHRAE 62.2-2016 Ventilation Residential Standards	5	R	R	R	R	R	R	R
No	H6.2 Advanced Ventilation Standards	0		2					
No	H6.3 Outdoor Air is Filtered and Tempered	0		1					
H7. Effective Range Hood Design and Installation									
No	H7.1 Effective Range Hood Ducting and Design	0		1					
No	H7.2 Automatic Range Hood Control	0		1					
No	H8. High Efficiency HVAC Filter (MERV 16+)	0		1					
No	H9. Advanced Refrigerants	0		1					
Yes	H10. No Fireplace or Sealed Gas Fireplace	1		1					
No	H11. Humidity Control Systems	0		1					
No	H12. Register Design Per ACCA Manual T	0		1					Only applies to climate zones 1, 3, 5, 6, and 7.
I. RENEWABLE ENERGY									
100%	I1. Onsite Renewable Generation (Solar PV, Solar Thermal, and Wind)	25		25					
I2. Low Carbon Homes									
Yes	I2.1 Near Zero Energy Home	2		2					
No	I2.2 Low Carbon Home	0		4					
No	I3. Energy Storage	0		1					
No	I4. Solar Hot Water Systems to Preheat Domestic Hot Water	0		4					
J. BUILDING PERFORMANCE AND TESTING									
No	J1. Third-Party Verification of Quality of Insulation Installation	0		1					
No	J2. Supply and Return Air Flow Testing	0		1					
No	J3. Mechanical Ventilation Testing	0		1					
No	J4. All Electric or Combustion Appliance Safety Testing	0		1					
K. BUILDING PERFORMANCE ENERGY RATING									
K5. Building Performance Exceeds Title 24 Part 6									
Select Project Climate Zone									
5									
1	J5.1 Home Outperforms Title 24 Part 6	5	1	25+					
Yes	J6. Title 24 Prepared and Signed by a CABEC Certified Energy Analyst	1		1					
No	J7. Participation in Utility Program with Third-Party Plan Review	0		1					
No	J8. ENERGY STAR® for Homes	0		1					
No	J9. EPA Indoor airPlus Certification	0			2				
No	J10. Blower Door Testing	0		3					
L. REDUCES									
K1. Entryways Designed to Reduce Tracked-In Contaminants									
© Build It Green GreenPoint Rated New Home Single Family Checklist Version 7.0									

03

New Home Single Family Version 8.0									
C13. Reduced Light Pollution									
Yes		1	1						
No	C14. Large Stature Trees	0	1						
No	C15. Third-Party Landscape Program Certification	0				1			
No	C16. Maintenance Contract with Certified Professional	0				1			
D. STRUCTURAL FRAME AND BUILDING DETAILS									
D1. Optimal Value Engineering									
No	D1.1 Joists, Rafters, and Studs at 24 Inches on Center	0		1		2			
No	D1.2 Non-Load Bearing Door and Window Headers Sized for Load	0			1				
No	D1.3 Advanced Framing Measures	0			2				
No	D2. Construction Material Efficiencies	0			1				
D3. Engineered Lumber									
No	D3.1 Engineered Beams and Headers	0			1				
No	D3.2 Wood Joists or Web Trusses for Floors	0			1				
Yes	D3.3 OSB for Subfloor	0.5			0.5				
Yes	D3.4 OSB for Wall and Roof Sheathing	0.5			0.5				
No	D4. Insulated Headers	0	1						
D5. FSC-Certified Wood									
No	D5.1 Dimensional Lumber, Studs, and Timber	0			5				
No	D5.2 Panel Products	0			3				
D6. Solid Wall Systems									
No	D6.1 At Least 80% of Floors	0			1				
No	D6.2 At Least 80% of Exterior Walls	0		1	1				
No	D6.3 At Least 80% of Roofs	0		1	1				
D7. Energy Heels on Roof Trusses									
No		0		1					
D8. Overhangs and Gutters									
18 inches		1	1	1	1				
D9. Reduced Pollution Entering the Home from the Garage									
No	D9.1 Detached Garage	0		2					
No	D9.2 Mitigation Strategies for Attached Garage	0		1					
D10. Structural Pest and Rot Controls									
Yes	D10.1 All Wood Located At Least 12 Inches Above the Soil	1			1				
No	D10.2 Wood Framing Treated With Borates or Factory-impregnated, or Wall Materials Other Than Wood	0			1				
Yes	D11. Moisture-Resistant Materials in Wet Areas (such as Kitchen, Bathrooms, Utility Rooms, and Basements)	2		1	1				
E. EXTERIOR									
E1. Environmentally Preferable Decking									
No		0			1				
E2. Flashing Installation Third-Party Verified									
No		0			2				
E3. Rain Screen Wall System									
No		0			2				
Yes	E4. Durable and Non-Combustible Cladding Materials	1			1				
E5. Durable Roofing Materials									
Yes	E5.1 Durable and Fire Resistant Roofing Materials or Assembly	1			1				
No	E6. Vegetated Roof	0	2	2					
F. INSULATION									
F1. Insulation with 30% Post-Consumer or 60% Post-Industrial Recycled Content									
No	F1.1 Walls and Floors	0			0.5				
No	F1.2 Ceilings	0			0.5				
F2. Insulation that Meets the CDPH Standard Method—Residential for Low Emissions									
No	F2.1 Walls and Floors	0			0.5				
No	F2.2 Ceilings	0			0.5				
F3. Low GWP Insulation That Does Not Contain Fire Retardants									
No	F3.1 Cavity Walls and Floors	0			1				
No	F3.2 Ceilings	0			1				
No	F3.3 Interior and Exterior	0			1				
G. PLUMBING									
G1. Efficient Distribution of Domestic Hot Water									
Yes	G1.1 Insulated Hot Water Pipes	1		1					
No	G1.2 WaterSense Volume Limit for Hot Water Distribution	0			1				
No	G1.3 Increased Efficiency in Hot Water Distribution	0			2				
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02

NEW HOME RATING SYSTEM, VERSION 8.0									
SINGLE FAMILY CHECKLIST									
The GreenPoint Rated checklist tracks green features incorporated into the home. GreenPoint Rated is administered by Build It Green, a non-profit whose mission is to promote healthy, energy and resource efficient buildings in California.									
The minimum requirements of GreenPoint Rated are verification of all or new points. Earn the following minimum points per category: Community (2), Energy (25), Indoor Air Quality/Health (5), Resources (5), and Water (5), and meet the prerequisites CALGreen Versions (5.5), (6.1), (6.5), (7.1), (7.2), (7.3), (7.4), (7.5), (7.6), (7.7), (7.8), (7.9), (8.0), (8.1), (8.2), (8.3), (8.4), (8.5), (8.6), (8.7), (8.8), (8.9), (9.0), (9.1), (9.2), (9.3), (9.4), (9.5), (9.6), (9.7), (9.8), (9.9), (10.0), (10.1), (10.2), (10.3), (10.4), (10.5), (10.6), (10.7), (10.8), (10.9), (11.0), (11.1), (11.2), (11.3), (11.4), (11.5), (11.6), (11.7), (11.8), (11.9), (12.0), (12.1), (12.2), (12.3), (12.4), (12.5), (12.6), (12.7), (12.8), (12.9), (13.0), (13.1), (13.2), (13.3), (13.4), (13.5), (13.6), (13.7), (13.8), (13.9), (14.0), (14.1), (14.2), (14.3), (14.4), (14.5), (14.6), (14.7), (14.8), (14.9), (15.0), (15.1), (15.2), (15.3), (15.4), (15.5), (15.6), (15.7), (15.8), (15.9), (16.0), (16.1), (16.2), (16.3), (16.4), (16.5), (16.6), (16.7), (16.8), (16.9), (17.0), (17.1), (17.2), (17.3), 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