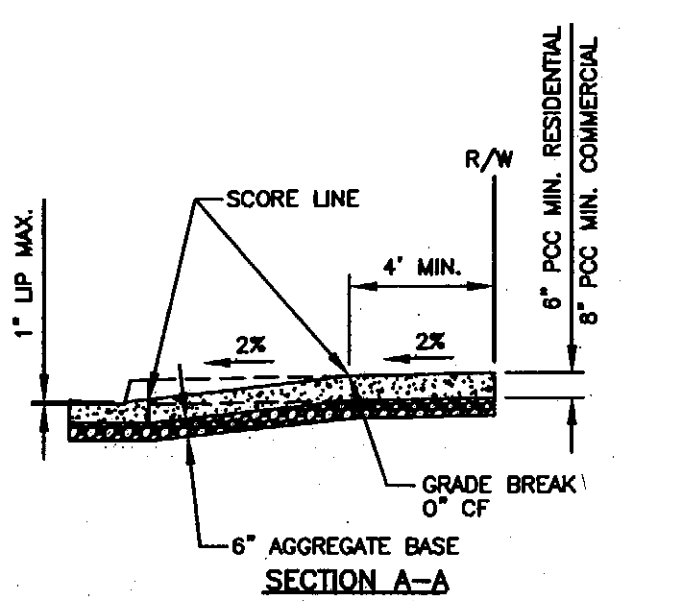


- The construction shall not restrict a five-foot clear and unobstructed access to any water or power distribution facilities (power poles, pull-boxes, transformers, vaults, pumps, valves, meters, appurtenances, etc.) or to the location of the hook-up. The construction shall not be within ten feet of any power lines—whether or not the lines are located on the property. Failure to comply may cause construction delays and/or additional expenses.
- An approved seismic gas shutoff valve will be installed on the fuel gas line on the down stream side of the utility meter and be rigidly connected to the exterior of the building or structure containing the fuel gas piping (per ordinance 170, 158) (separate plumbing permit is required).
- Plumbing fixtures are required to be connected to a sanitary sewer or to an approved sewage disposal system (R306.3).
- Kitchen sinks, lavatories, bathtubs, showers, bidets, laundry tubs and washing machine outlets shall be provided with hot and cold water and connected to an approved water supply (R306.4).
- Bathub and shower floors, walls above bathtubs with a showerhead, and shower compartments shall be finished with a nonabsorbent surface. Such wall surfaces shall extend to a height of not less than 6 feet above the floor (R307.2).
- Provide ultra low-flush water closet for all new construction. Existing shower heads and toilets must be adapted for low water consumption.
- Provide 70-inch-high non-absorbent wall adjacent to shower and approved shatter-resistant materials for shower enclosure (R308).
- Underlayment shall be labeled by a LA city labeling agency. Such label shall state the approved label/ing name, product designation, and performance grade rating (research report not required) (R308.6.9).
- Water heater must be strapped to wall (California / Health and Safety Code - HSC / ARTICLE 8).
- Smoke detectors shall be provided for all dwelling units intended for human occupancy, upon the owner's application for a permit for alterations, repairs, or additions, exceeding one thousand dollars (\$1000) (R314.6.2)
- Where a permit is required for alterations, repairs or additions exceeding one thousand dollars (\$1000), existing dwellings or sleeping units that have attached garages or fuel-burning appliances shall be provided with a carbon monoxide alarm in accordance with section R315.1. Carbon monoxide alarms shall only be required in the specific dwelling unit or sleeping unit for which the permit was obtained (R315.2)
- Every space intended for human occupancy shall be provided with natural light by means of exterior glazed openings in accordance with section R303.1 or shall be provided with artificial light that is adequate to provide an average illumination of 6-foot candles over the area of the room at a height of 30 inches above the floor level (R303.1).
- A copy of the evaluation report and/or conditions of listing shall be made available at the job site.

- Heater shall be capable of maintaining a minimum room temperature of 68°F at a point 3 feet above the floor and 2 feet from exterior walls in all habitable rooms at the design temperature (R308.3).
- Glazing in the following locations shall be safety glazing conforming to the human impact loads of section R308.3 (see exceptions) (R308.4).
  - Glazing in enclosures for or walls facing hot tubs, whirlpools, saunas, steam rooms, bathtubs, and showers where the bottom edge of the glazing is less than 60 inches measured vertically above any standing or walking surface.
    - Fixed and operable panels of swinging, sliding, and bifold door assemblies.
    - Glazing in an individual fixed or operable panel adjacent to a door where the nearest vertical edge is within a 24-inch arc of the door in a closed position and whose bottom edge is less than 80 inches above the floor or walking surface.
    - Glazing in an individual fixed or operable panel that meets all of the following conditions:
      - Exposed area of an individual panel greater than 1 square foot.
      - Bottom edge less than 18 inches above the floor.
      - Top edge greater than 36 inches above the floor.
      - One or more walking surfaces within 36 inches horizontally of the glazing.
- Construction waste reduction of at least 50 percent.
- Ducts penetrating the walls or ceilings, separating the dwelling from the garage shall be constructed of a minimum no. 26 gauge sheet steel or other approved material and there shall be no openings from the ducts into the garage (R302.5.2).
- Other penetrations of garage/dwelling ceilings and walls are to be protected as required by section R302.11, item 4 (R302.5.3).

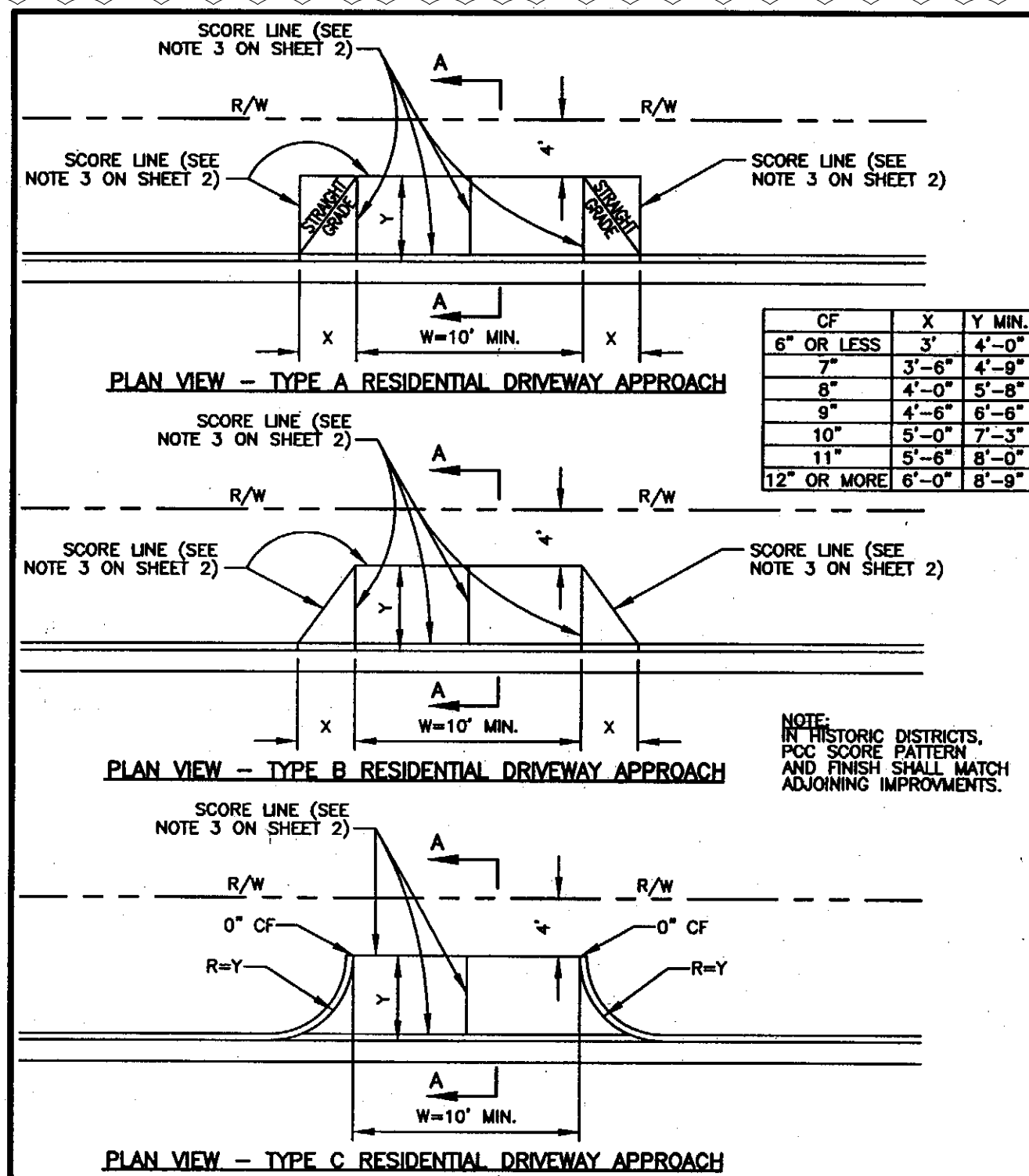


**GENERAL NOTES FOR ALL DRIVEWAY APPROACHES:**

1. DRAINAGE APPROACH SHALL BE CLASS 520-C-2500 PCL (6" MILL THICKNESS AND 1/2" DEEP) AND SHALL BE COMPACTED (SEE COMMERCIAL) AND SHALL UTILIZE CURING COMPOUND. ALL NEW DEPTH APPROACHES REQUIRE TAMING PER SSPWC GREENBOOK.
  2. DRAINAGE APPROACH SHALL BE CONSTRUCTED ON 6" CLASS OR 6" C.M.B. OVER 6" SUBGRADE AT 10% MAX. SLOPE.
  3. DRAINAGE APPROACHES SHALL BE SCORED 1 1/2" DEEP AT THE CENTER OF THE APPROACH AT MAXIMUM 10' ON CENTER.
- GENERAL NOTES FOR ALL DRAINAGE APPROACHES (CONT.)**
4. WHEN ABUTTING SOLIS HAS HIGH SULFATE CONTENT, APPROACHES SHALL BE CONSTRUCTED WITH SSPWC INCLUDING BUT NOT LIMITED TO 6 MIL PLASTIC SHEETING AND 1/2" DEEP AT THE CENTER OF THE APPROACH AT 2% MAX. SLOPE (SEE SSPWC GREENBOOK FOR FURTHER REQUIREMENTS).
  5. FOR NEW DRAINAGE APPROACHES ADJACENT TO EXISTING PAVEMENT, A MINIMUM OF 6" OF EXISTING PAVEMENT SHALL BE REMOVED AND REPLACED FULL-DEPTH ADJACENT TO NEW PCC.
  6. DRAINAGE APPROACH DESIGN SHALL PROVIDE FOR ADA MINIMUM 4' PATH OF TRAVEL (2% MAX. CROSS SLOPE, MINIMUM 1% SLOPE).
  7. NEW DRAINAGE APPROACHES REQUIRE THE INSTALLATION OF ONE 2" PVC STREET LIGHT CONDUIT 2' BEYOND CURB AFTER THE APPROACH. ONE FOOT BEYOND CURB/END OF DRAINAGE APPROACH.
  8. MAX. DRAINAGE SLOPE IS 1% MEASURED FROM THE 1" CURB TO THE DOWNSLOPE TO THE CROSSLANE BREAK AT THE FRONT OF THE PATH OF TRAVEL.
  9. DRAINAGE SLOPE AREA REQUIRES MEDIUM BROOM FINISH PARALLEL WITH CURB. DRAINAGE SIDEWALK AREA REQUIRES MEDIUM BROOM FINISH PARALLEL WITH CURB LINE.
  10. DRAINAGE SIDEWALK SHALL BE SCORED AT 5' ON CENTER WITH WEAKENED PLANE JOINTS EVERY 10'.

GENERAL NOTES FOR ALL DRIVEWAY APPROACHES (CONT.)

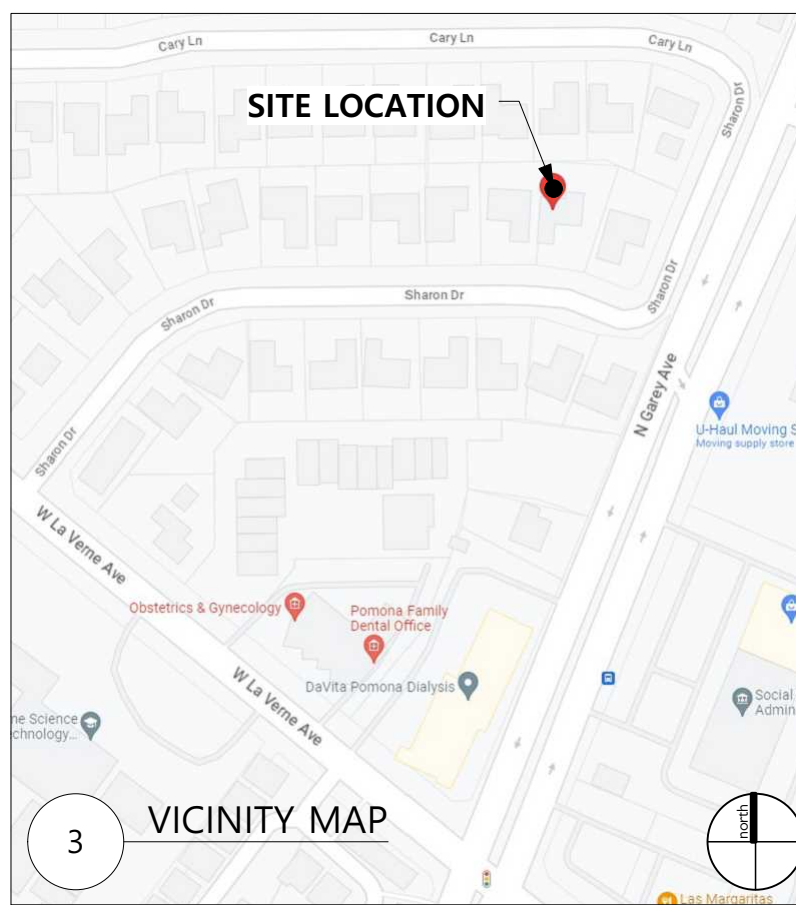
4. WHEN ABUTTING SOIL HAS HIGH SULFATE CONTENT, SPECIAL CONSIDERATION SHALL BE CONSIDERING THE EFFECTS OF SULFATE ON THE CONCRETE SHEETING. A MINIMUM OF 2" BENEATH EDGE OF CONCRETE (SEE SECTION 201.04) SHALL BE USED.
5. FOR NEW DRIVEWAY APPROACHES ADJACENT TO EXISTING PAVEMENT, MINIMUM OF 5' OF EXISTING PAVEMENT SHALL BE REMOVED AND REPLACED FULL-DEPTH AND NEW CONCRETE SHALL BE PLACED.
6. DRIVEWAY APPROACH DESIGN SHALL PROVIDE FOR ADA ACCESSIBLE PATH OF TRAVEL (2% MAX. CROSS SLOPE, MINIMUM 4' WIDE).
7. NEW DRIVEWAY APPROACHES REQUIRE THE INSTALLATION OF A STREET LIGHT CONDUIT TO BEHIND CURB AND SHALL EXTEND MIN. OF 3 FEET BEYOND BORER OF DRIVEWAY APPROACH.
8. MAX. DRIVEWAY SLOPE IS 10% MEASURED FROM THE "1" SIDE OF THE DRIVEWAY. DRIVEWAY SHALL BREAK AT THE FRONT OF THE ADA PATH OF TRAVEL.
9. DRIVEWAY SLOPE AREA REQUIRES MEDIUM BROOM FINISH PARALLEL WITH CURB. DRIVEWAY SIDEWALK AREA REQUIRES MEDIUM BROOM FINISH PARALLEL WITH CURB SIDE.
10. DRIVEWAY SIDEWALK SHALL BE SCORES AT 5' ON CENTER WITH WEAKENED PLANE JOINTS EVERY 10'.



**CITY OF POMONA  
PUBLIC WORKS DEPARTMENT**

				RESIDENTIAL DRIVEWAY APPROACH	
				DRAWN BY: BAH	
UPDATED ENTIRE STANDARD				CHECKED BY: [Signature]	
REVISIONS				APPROVED BY: [Signature]	
		07/18/11	BAH	STANDARD	
		DATE	INITIAL		

A-27-10



### AREA CALCULATIONS

ZONE : R-1-7,200  
 ADDRESS: 113 SHARON DR. POMONA, CA 91767  
 BUILDING TYPE: SINGLE FAMILY DWELLING  
 CONSTRUCTION TYPE: Residential Wood frame Type V  
 APN: 8371-017-041  
 LOT: 34  
 TRACK NO: 18444  
 LOT SIZE: 8,744 SF

(E) SINGLE-FAMILY HOME SF: 1,288 SQ FT  
(E) TWO CAR GARAGE: 390 SQ FT  
(E) STORAGE SHEDS: 184 SF (120 SF + 64 SF)  
(E) GAZEBO: 49 SF

(P) 1ST FLR ADDITION: 158.2 SQ FT  
(P) 2ND FLR ADDITION: 566.3 SQ FT  
(OVER EXISTING GARAGE)

(E) TOTAL HABITABLE SPACE; 1,288 SQ FT  
(E & P) TOTAL HABITABLE SPACE; 2,012.5 SQ FT

(E) TOTAL NON HABITABLE SPACE; 623 SQ FT  
(2 CAR GARAGE, STORAGE SHED & GAZEBO)  
(E & P) TOTAL NON HABITABLE SPACE; NO CHANGE

(E) BUILDING FOOTPRINT:  
MAIN HOUSE & GARAGE - 1,678 FT

(P) BUILDING FOOTPRINT:  
MAIN HOUSE & GARAGE - 1,836.2 FT

1. THE DRIVEWAY APPROACH SHALL BE IN COMPLIANCE WITH THE CITY OF POMONA STD A-27-10

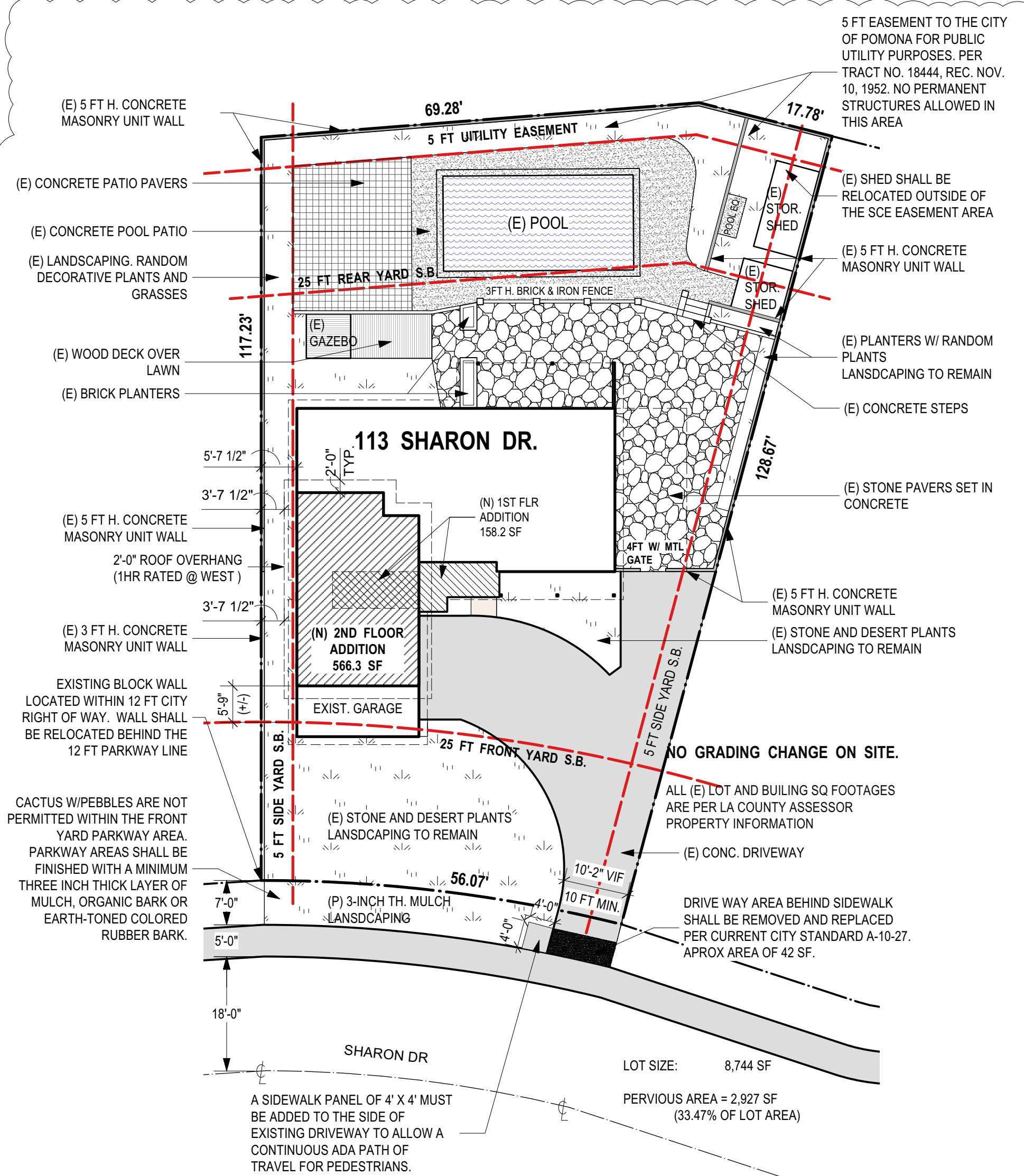
2. IT IS THE OWNER'S AND THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ALL DAMAGE TO THE EXISTING PUBLIC IMPROVEMENTS DUE TO THE PROPOSED CONSTRUCTION ACTIVITIES AND TO ADDRESS ALL REPAIRS REQUESTED BY THE PUBLIC WORKS INSPECTOR BASED ON THE INSPECTOR'S REVIEW OF THE CURRENT CONDITION OF THE SAID PUBLIC IMPROVEMENTS.

- 3. UNDERGROUNDING OF ALL EXISTING AND PROPOSED UTILITY LINES IS REQUIRED AS PERCITY OF POMONA MUNICIPAL CODE SECTION 62-31(B)(1).**

4. THE PARKWAY LANDSCAPING SHALL BE MAINTAINED BY THE PROPERTY OWNER PER CITY OF POMONA MUNICIPAL CODE SECTION 46-496.

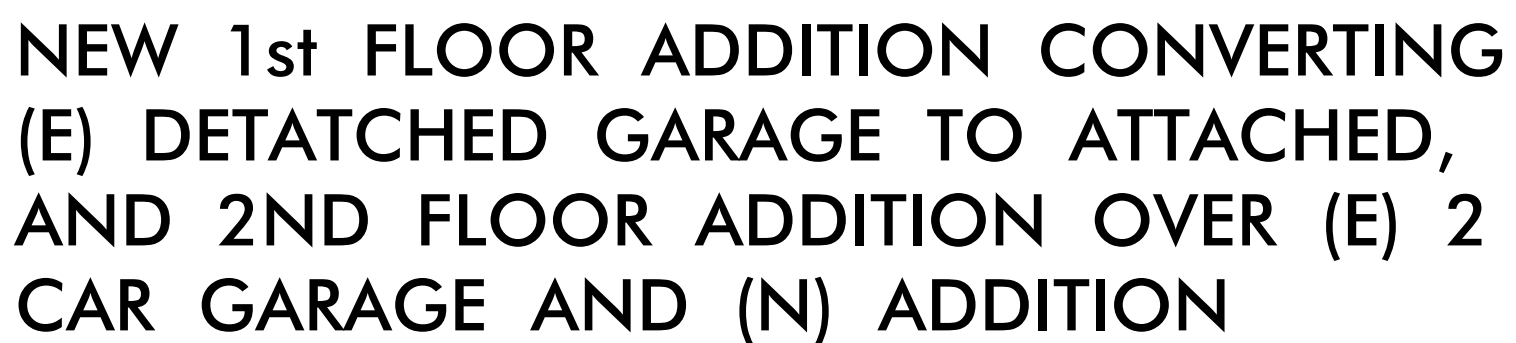
5. THE PROPERTY ABUTTING SIDEWALK, PARKWAY AND ALLEY, AS APPLICABLE, SHALL BE MAINTAINED FREE OF WEEDS, RUBBISH AND REFUSE BY THE PROPERTY OWNER, AS REQUIRED BY THE CITY'S MUNICIPAL CODE SECTION 18-261.

LEGAL DESCRIPTION	
ADDRESS	113 SHARON DR, POMONA CA 91767
BUILDING TYPE	SINGLE FAMILY DWELLING
CONSTRUCTION TYPE	One story Residential Prescriptive Wood frame Type V
TRACK NO.	18444
LOT NUMBER	34
ASSESSOR'S PARCEL NO. (APN)	8371-017-041
LOT AREA ESTIMATE	8,744 SQ FT
(E) BUILDING SQ. FOOTAGE	1,288 SQ FT
ZONING DISTRICT	R-1-7,200 (RN1-T)
<b>CONSULTANTS</b>	
OWNER	Sophia Chavez-Zavala & Barbara Chavez 113 SHARON DR, POMONA CA 91767 Phone No: (909) 706 - 5361 Email: <a href="mailto:MatthewnSophia@gmail.com">MatthewnSophia@gmail.com</a>
ARCHITECT	Gregory Geslicki <a href="http://OCGG@MSN.com">OCGG@MSN.com</a> (847) 716- 0774
CONTRACTOR	AGC (American General Corporation) 34941 Calle Del Sol, Capistrano Beach, CA 92624 (949) 542-8777 / 101
<b>SCOPE OF WORK</b>	
NEW 1st FLOOR ADDITION COVERING (E) DETACHED GARAGE TO ATTACHED, AND 2ND FLOOR ADDITION OVER (E) 2CAR GARAGE AND THE ADDITION	
<b>APPLICABLE CODES : All construction shall comply with the CITY OF POMONA Municipal Code.</b>	
Plans shall comply with the following:	
2022 California Residential Code (CRC)	
2022 California Electrical Code (CEC)	
2022 California Mechanical Code (CMC)	
2022 California Energy Code (CEC)	
2022 California Plumbing Code (CPC)	
2022 California Fire Code (CFC)	
2022 California Green Building Standard Code (CGBSC)	
2022 California Fire Code	
2022 California Historical Building Code	
City of Pomona Municipal Code	



## PROPOSED SITE PLAN

Scale: 1/16" = 1'-0



A-0 PROJECT INFO. SHEET INDEX AND SITE PLAN  
A-1.0 CALIFORNIA GREEN BUILDING STANDARD CODE  
A-1.1 CALIFORNIA GREEN BUILDING STANDARD CODE  
A-2.0 EXISTING & PROPOSED 1ST FLOOR AND FOUNDATION PLAN  
A-2.1 PROPOSED 2ND FLOOR AND ROOF PLAN  
A-3.0 EXISTING BUILDING ELEVATIONS  
A-3.1 PROPOSED BUILDING ELEVATIONS  
A-4.0 WALL SECTION  
A-4.1 INTERIORS DETAILS

REVIEWED FOR CODE COMPLIANCE  
CITY OF POMONA  
Building & Safety Division  
C-000121-2024

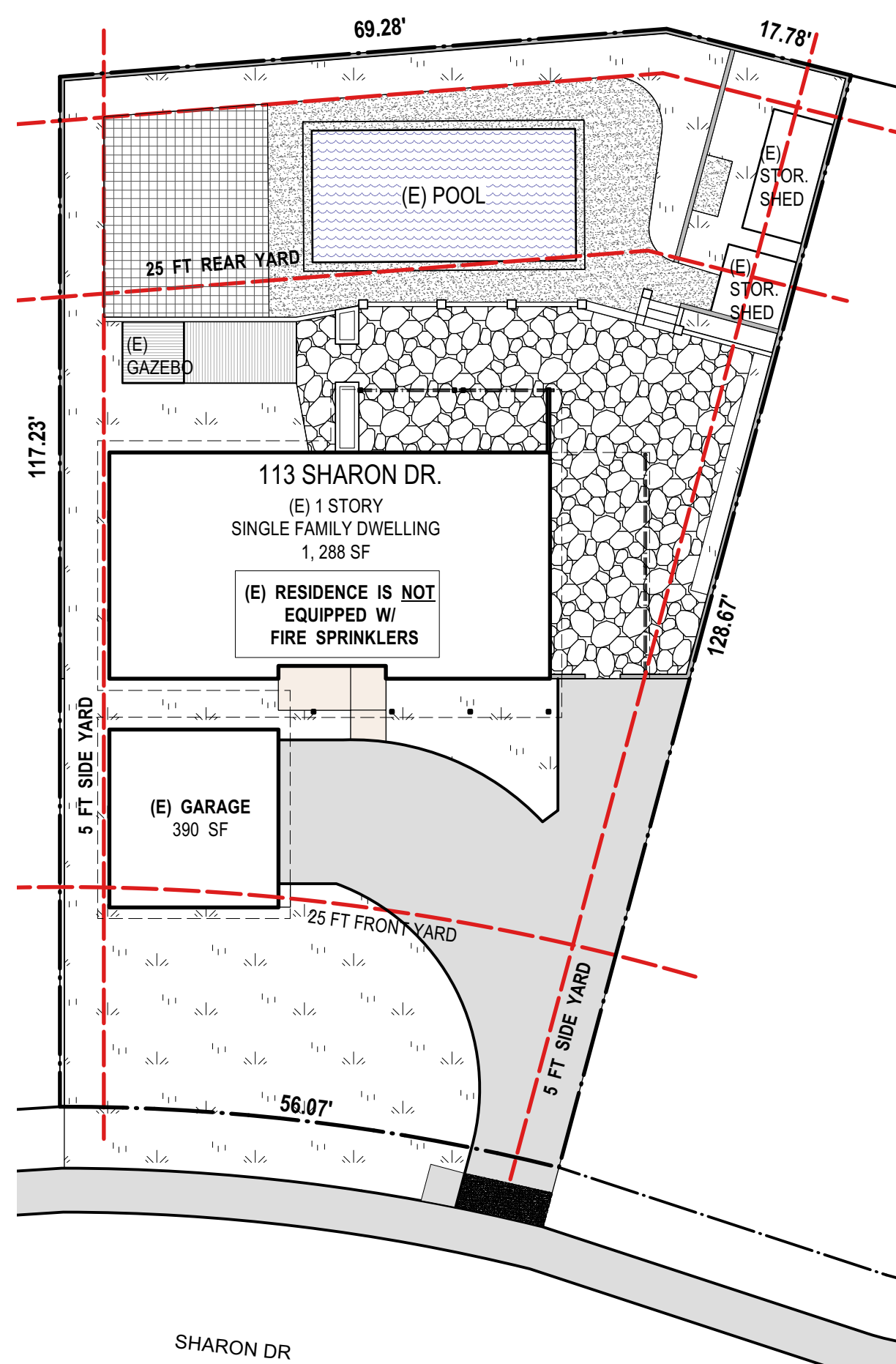
**Permit #** \_\_\_\_\_

This issuance or granting of a permit based on approval of these plans shall not be construed to permit or approve any violation of the applicable codes or ordinance. No permit presumed to give authority to violate or cancel the provisions of such codes shall be valid.

Signature \_\_\_\_\_  
Approval Date 4/3/2024

### CONDITIONS/REQUIREMENTS

- ☐ Construction Waste Management  
☐ Water Department Conditions  
☐ Public Works Conditions  
☐ Planning Conditions  
☐ Other: \_\_\_\_\_



(E) SITE PLAN

Scale: 1/16" = 1'-0"



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<div>ENTRY &amp; SECOND FLOOR ADDITION</div>		<div>113 SHARON DR. POMONA, CA 91767</div>	
<div>CAL GREEN BUILD'G CODE</div>			
<div>NO. DATE ISSUE NOTE</div>		<div>1 12/27/2023 BUILDING PERMIT APPLICATION</div>	
<div>2 2/4/2024 REVIEW COMMENTS REPLY</div>		<div>3/11/24</div>	
<div>I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE CONFORM TO THE PREEMPTIVE LOCAL BUILDING CODE AND REGULATIONS (CALIFORNIA CIVIL CODE, NURSING REGISTERED CALIFORNIA ARCHITECT CALIFORNIA LICENSE NO. C-40389, LICENSE EXPIRATION: 1/19/2025)</div>			
<div>Drawn By: OC</div>		<div>Sheet No.</div>	
<div>Project ID: 100-34</div>		<div>A-1.0</div>	



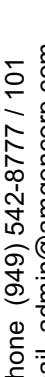




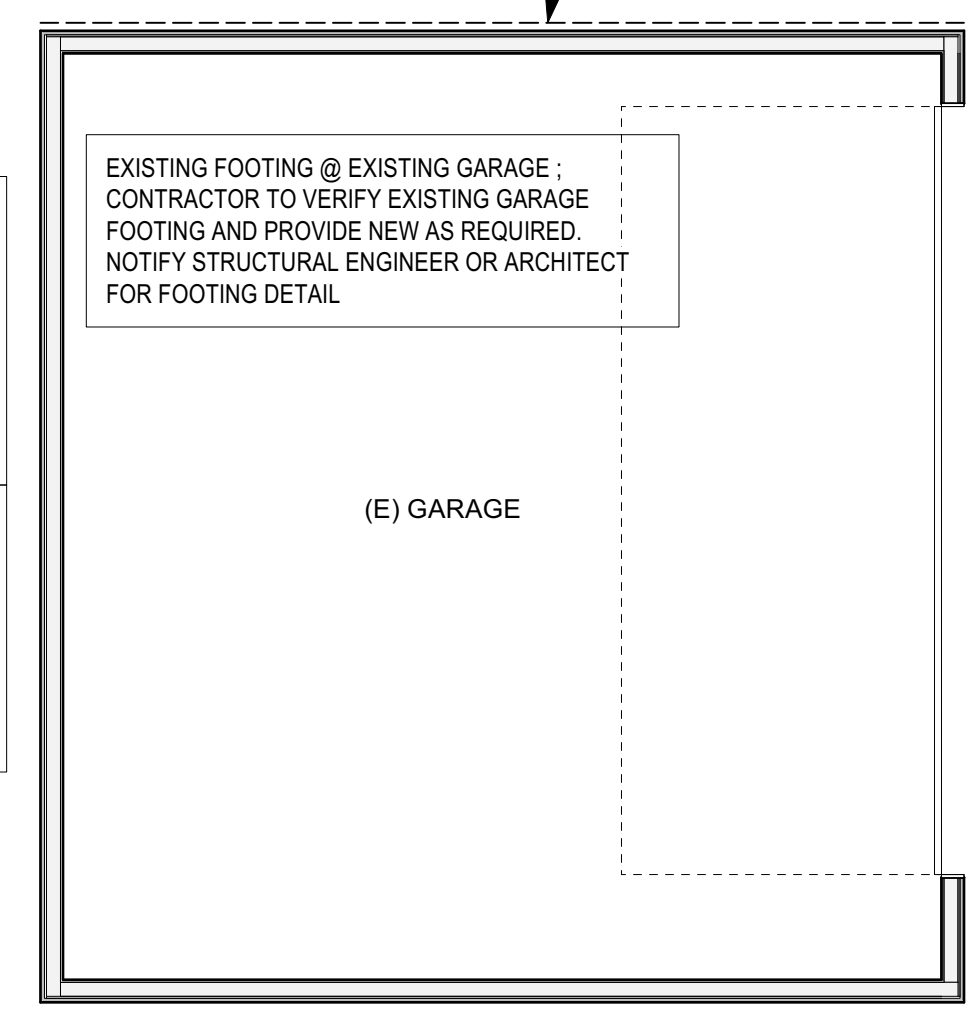
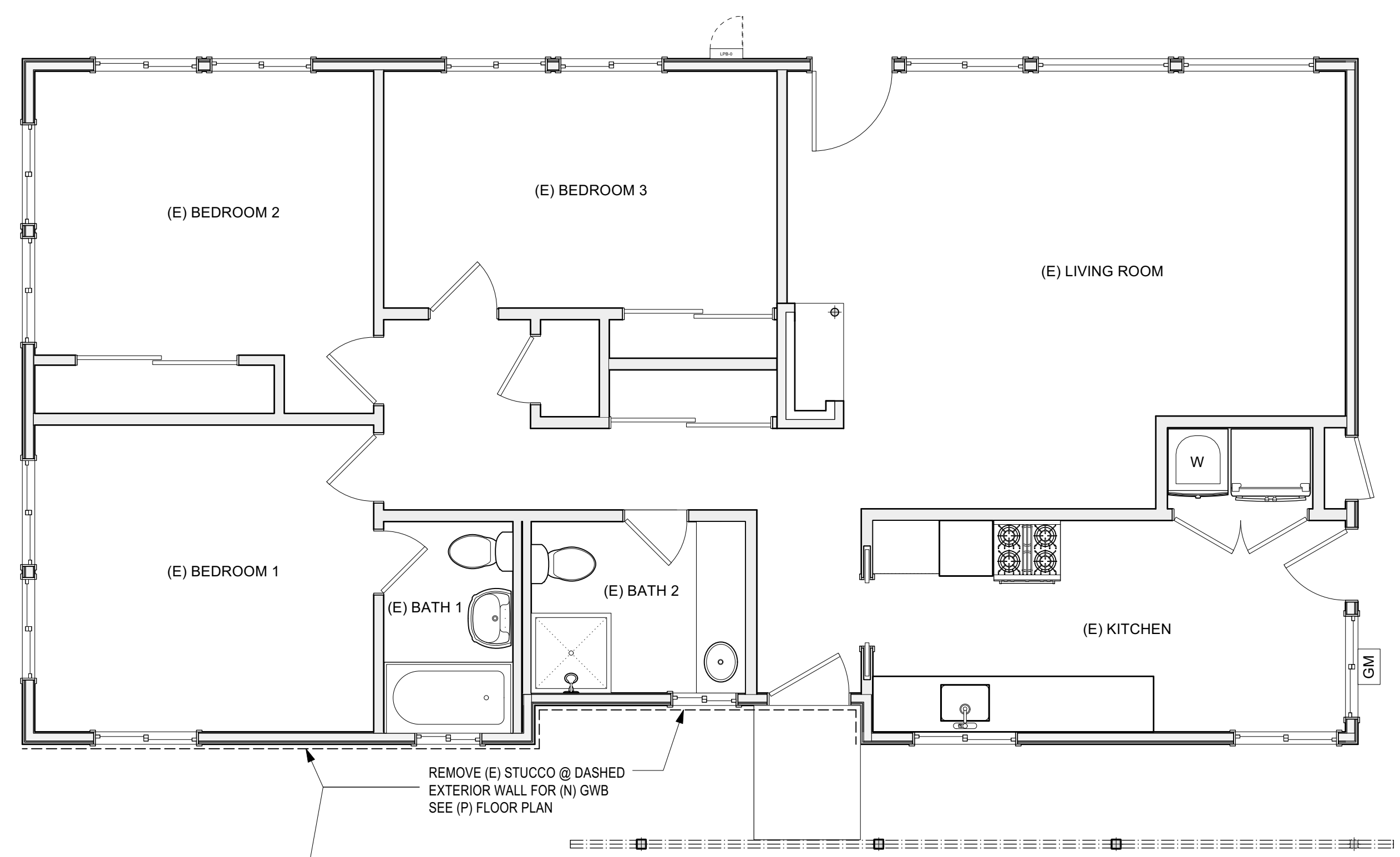
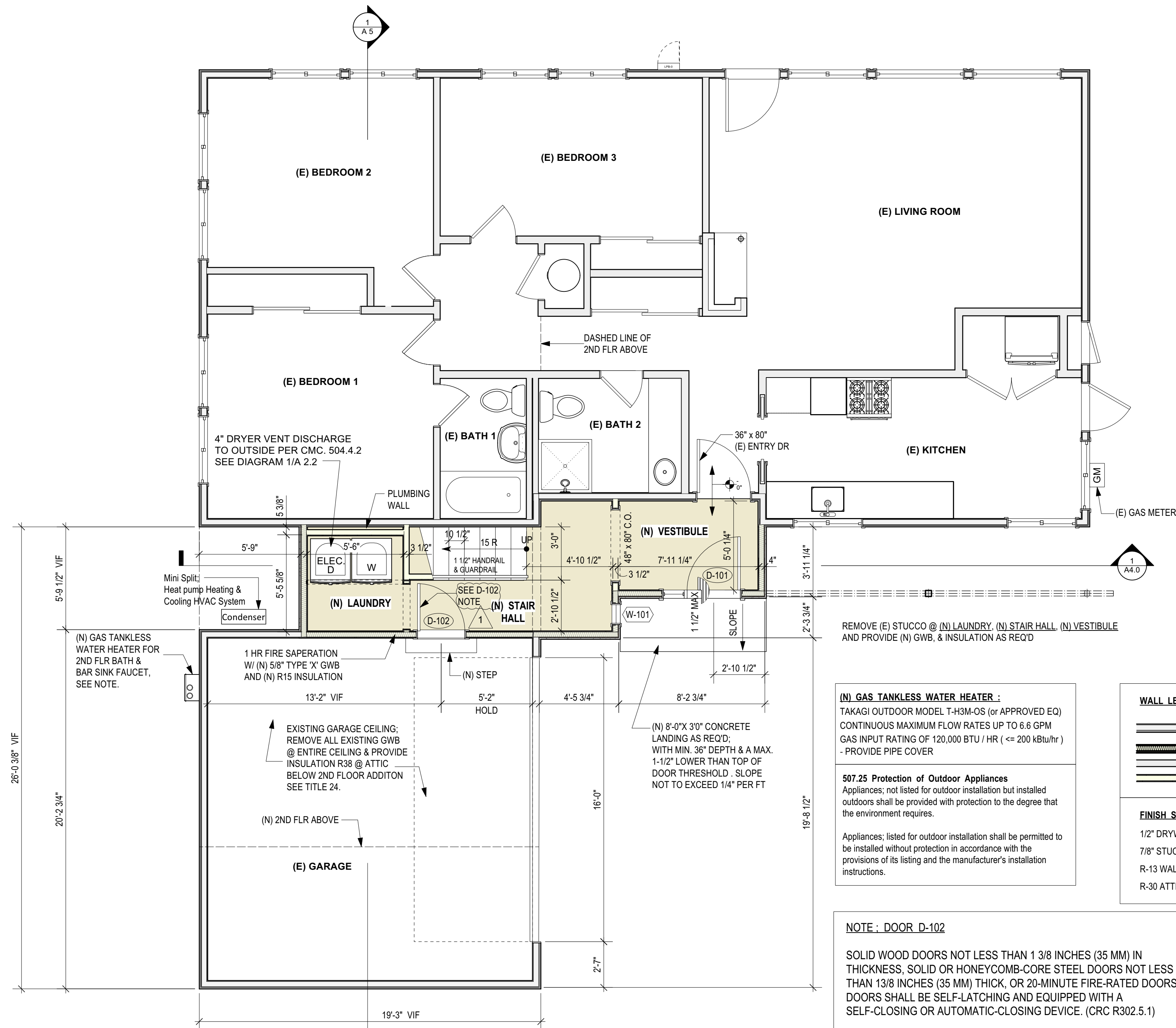
	Y	N/A	RESPON PARTY
<b>MAXIMUM INCREMENTAL REACTIVITY (MIR).</b> The maximum change in weight of ozone formed by adding a compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundredths of a gram (g O <sub>3</sub> /g ROG). <b>Note:</b> MIR values for individual compounds and hydrocarbon solvents are specified in CCR, Title 17, Sections 94700 and 94701.			
<b>MOISTURE CONTENT.</b> The weight of the water in wood expressed in percentage of the weight of the oven-dry wood.			
<b>PRODUCT-WEIGHTED MIR (PW MIR).</b> The sum of all weighted-MIR for all ingredients in a product subject to this article. The PW MIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging). <b>Note:</b> PW MIR is calculated according to equations found in CCR, Title 17, Section 94521 (a).			
<b>REACTIVE ORGANIC COMPOUND (ROC).</b> Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.			
<b>VOC.</b> A volatile organic compound (VOC) broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).			
<input type="checkbox"/>	<input type="checkbox"/>		
<b>4.503 FIREPLACES</b> 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.			
<input checked="" type="checkbox"/>	<input type="checkbox"/>		
<b>4.504 POLLUTANT CONTROL</b> <b>4.504.1 COVERING OF DUCT OPENINGS &amp; PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION.</b> 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 or debris which may enter the system. <b>4.504.2 FINISH MATERIAL POLLUTANT CONTROL.</b> Finish materials shall comply with this section.			
<input checked="" type="checkbox"/>	<input type="checkbox"/>		
<b>4.504.2.1 Adhesives, Sealants and Caulks.</b> Adhesives, sealant 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: <ol style="list-style-type: none"><li>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 116B VOC limits, as shown in Table 4.504.1 or 4.504.2, as applicable. Such products also shall comply with the Rule 116B 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.</li><li>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. See <i>California Code of Regulations</i>, Title 17, commencing with section 94507.</li></ol>			
<input checked="" type="checkbox"/>	<input type="checkbox"/>		
<b>4.504.2.2 Paints and Coatings.</b> 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.			
<input checked="" type="checkbox"/>	<input type="checkbox"/>		
<b>4.504.2.3 Aerosol Paints and Coatings.</b> 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 <i>California Code of Regulations</i> , 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.			
<input checked="" type="checkbox"/>	<input type="checkbox"/>		
<b>4.504.2.4 Verification.</b> 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: <ol style="list-style-type: none"><li>Manufacturer's product specification.</li><li>Field verification of on-site product containers.</li></ol>			
TABLE 4.504.1 - ADHESIVE VOC LIMIT <sub>1,2</sub>			
(Less Water and Less Exempt Compounds in Grams per Liter)			
ARCHITECTURAL APPLICATIONS		VOC LIMIT	
INDOOR CARPET ADHESIVES		50	
CARPET PAD ADHESIVES		50	
OUTDOOR CARPET ADHESIVES		150	
WOOD FLOORING ADHESIVES		100	
RUBBER FLOOR ADHESIVES		60	
SUBFLOOR ADHESIVES		50	
CERAMIC TILE ADHESIVES		65	
VCT & ASPHALT TILE ADHESIVES		50	
DRYWALL & PANEL ADHESIVES		50	
COVE BASE ADHESIVES		50	
MULTIPURPOSE CONSTRUCTION ADHESIVE		70	
STRUCTURAL GLAZING ADHESIVES		100	
SINGLE-PLY ROOF MEMBRANE ADHESIVES		250	
OTHER ADHESIVES NOT LISTED		50	
SPECIALTY APPLICATIONS			
PVC WELDING		510	
CPVC WELDING		490	
ABS WELDING		325	
PLASTIC CEMENT WELDING		250	
ADHESIVE PRIMER FOR PLASTIC		550	
CONTACT ADHESIVE		80	
SPECIAL PURPOSE CONTACT ADHESIVE		250	
STRUCTURAL WOOD MEMBER ADHESIVE		140	
TOP & TRIM ADHESIVE		250	
SUBSTRATE SPECIFIC APPLICATIONS			
METAL TO METAL		30	
PLASTIC FOAMS		50	
POROUS MATERIAL (EXCEPT WOOD)		50	
WOOD		30	
FIBERGLASS		80	
1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.			
2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 116B.			

	N/A	RESPON PARTY
TABLE 4.504.2 - SEALANT VOC LIMIT (Less Water and Less Exempt Compounds in Grams per Liter)		
<b>SEALANTS</b>		<b>VOC LIMIT</b>
ARCHITECTURAL		250
MARINE DECK		760
NONMEMBRANE ROOF		300
ROADWAY		250
SINGLE-PLY ROOF MEMBRANE		450
OTHER		420
<b>SEALANT PRIMERS</b>		
ARCHITECTURAL		
NON-POROUS		250
POROUS		775
MODIFIED BITUMINOUS		500
MARINE DECK		760
OTHER		750
TABLE 4.504.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS: <sup>3</sup>		
GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS		
<b>COATING CATEGORY</b>	<b>VOC LIMIT</b>	
FLAT COATINGS	50	
NON-FLAT COATINGS	100	
NONFLAT-HIGH GLOSS COATINGS	150	
<b>SPECIALTY COATINGS</b>		
ALUMINUM ROOF COATINGS	400	
BASEMENT SPECIALTY COATINGS	400	
BITUMINOUS ROOF COATINGS	50	
BITUMINOUS ROOF PRIMERS	350	
BOND BREAKERS	350	
CONCRETE CURING COMPOUNDS	350	
CONCRETE/MASONRY SEALERS	100	
DRIVEWAY SEALERS	50	
DRY FOG COATINGS	150	
FAUX FINISHING COATINGS	350	
FIRE RESISTIVE COATINGS	350	
FLOOR COATINGS	100	
FORM-RELEASE COMPOUNDS	250	
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500	
HIGH TEMPERATURE COATINGS	420	
INDUSTRIAL MAINTENANCE COATINGS	250	
LOW SOLIDS 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, & UNDERCOATERS	100	
REACTIVE PENETRATING SEALERS	350	
RECYCLED COATINGS	250	
ROOF COATINGS	50	
RUST PREVENTATIVE COATINGS	250	
SHELLACS		
CLEAR	730	
OPAQUE	550	
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100	
STAINS	250	
STONE CONSOLIDANTS	450	
SWIMMING POOL COATINGS	340	
TRAFFIC MARKING COATINGS	100	
TUB & TILE REFINISH COATINGS	420	
WATERPROOFING MEMBRANES	250	
WOOD COATINGS	275	
WOOD PRESERVATIVES	350	
ZINC-RICH PRIMERS	340	
1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS		
2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.		
3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.		

[illegible][illegible]

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ENTRY & SECOND FLOOR ADDITION		THIS DRAWING SET INDICATES GENERAL SCOPE OF THE PROJECT IN TERMS OF DIMENSIONS OF THE BUILDING, MAJOR ARCHITECTURAL ELEMENTS AND THE TYPE OF WORK REQUIRED FOR FULL PERFORMANCE AND COMPLETION OF THE PROJECT. THESE DRAWINGS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL DETAILS OF THE PROJECT. THE ARCHITECT AND THE CONSULTANT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND REGULATIONS FROM THE LOCAL CODES. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL FURNISH ALL ITEMS REQUIRED BY THE LOCAL CODES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND REGULATIONS FROM THE LOCAL CODES.		 39491 Calle Del Sol Capistrano Beach, CA 92624 Phone (949) 542-8777 / 101 email admin@ocgsgcorp.com	
113 SHARON DR. POMONA, CA 91767					
CAL GREEN BUILD'G CODE					
NO. DATE		ISSUE NOTE			
1 12/27/2023		BUILDING PERMIT APPLICATION			
2 2/4/2024		REVIEW COMMENTS REPLY			
					
				3/11/24	
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE CONFORM TO THE PRESENT LOCAL BUILDING CODE AND REGULATIONS AND ALL APPLICABLE STATE AND FEDERAL LAWS, RULES AND REGULATIONS. I AM A LICENSED ARCHITECT IN THE STATE OF CALIFORNIA. LICENSE NO. C-40389, LICENSE EXPIRATION: 11/30/2025.					
Drawn By: OC		Sheet No:			
Project ID 100-34		A-1.1			

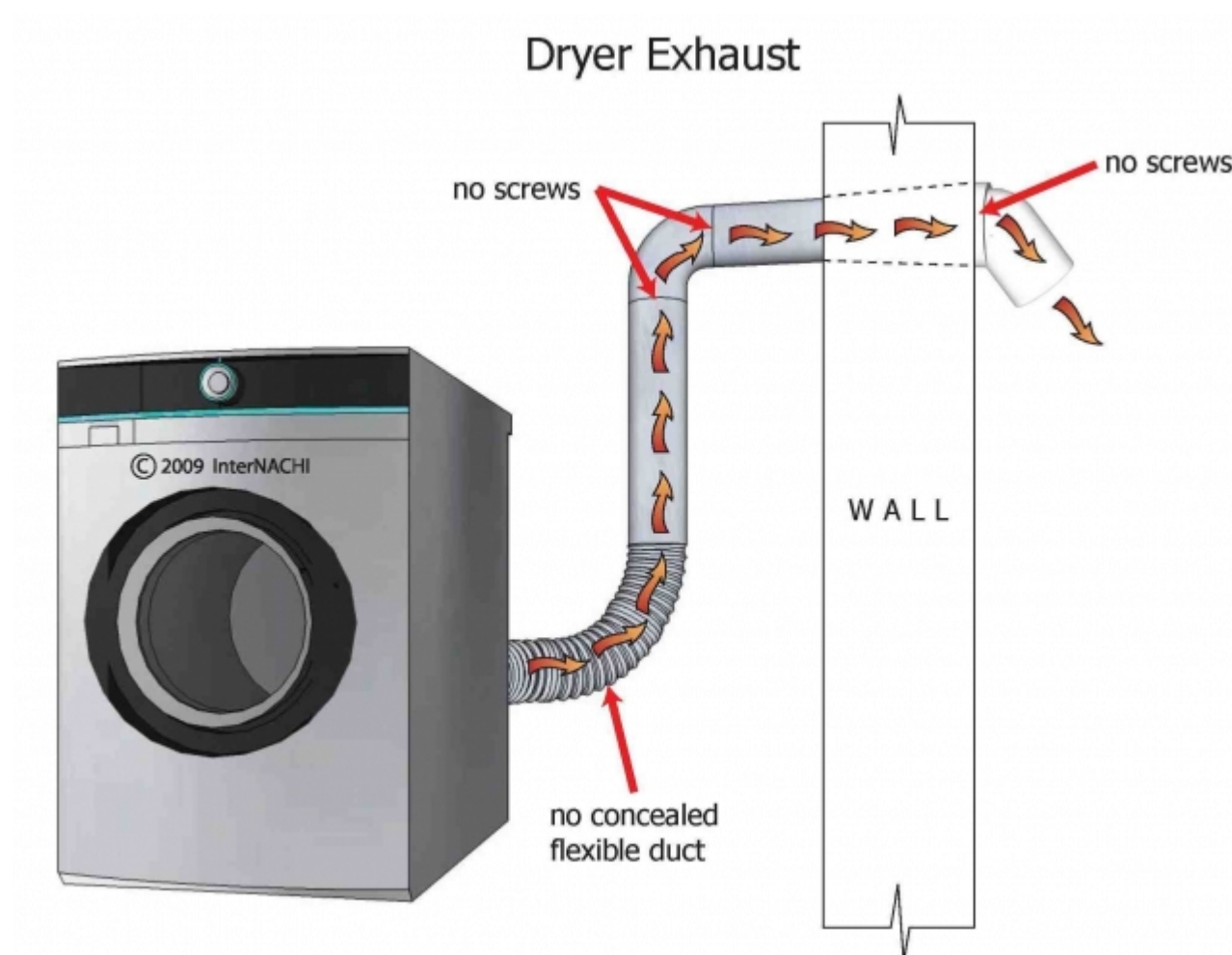
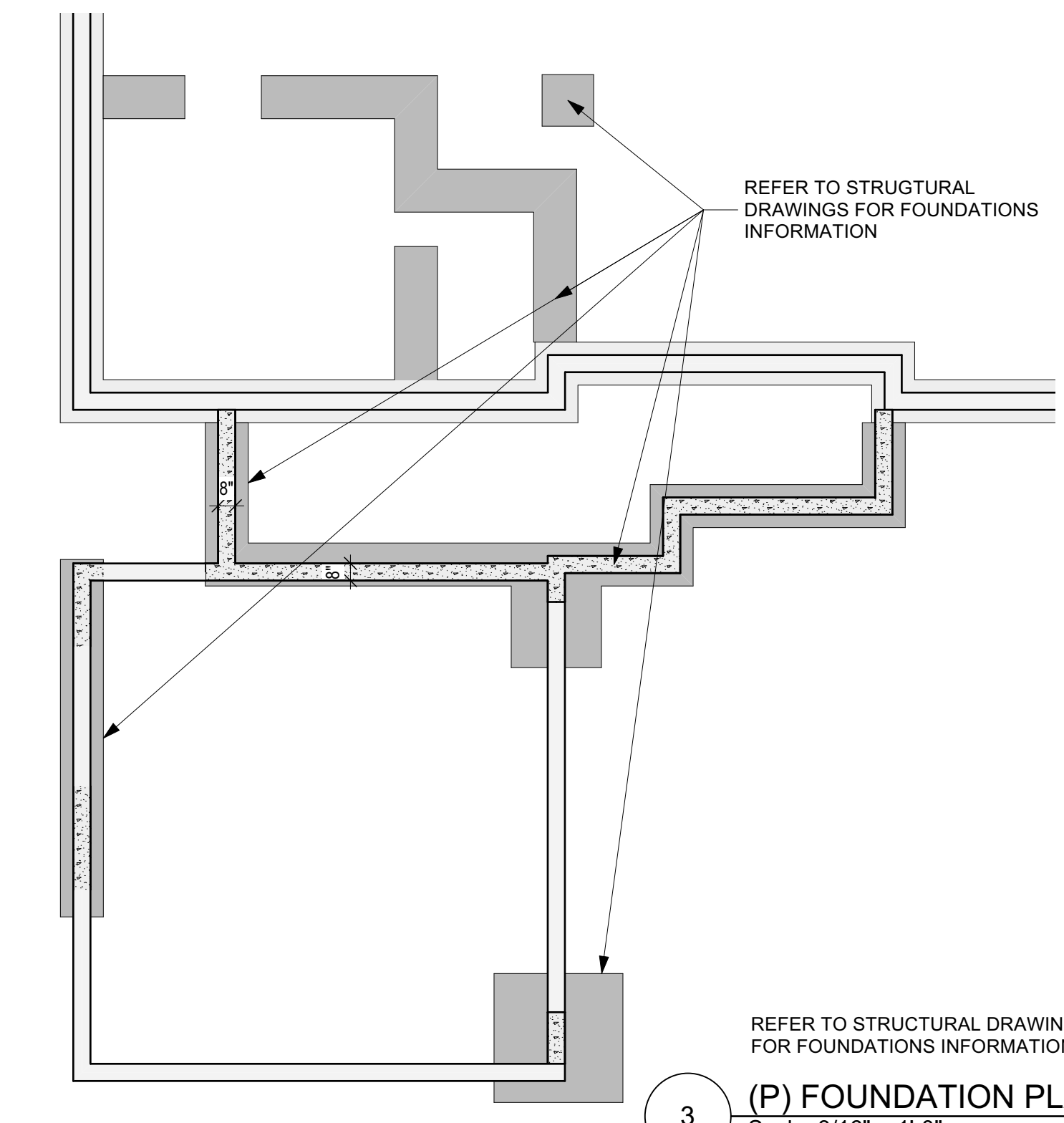




All non-compliant plumbing fixtures shall be replaced with water-conserving plumbing fixtures. (Civil Code Section 1101.4(b))  
 Noncompliant plumbing fixture means any of the following:  
 - Any toilet manufactured to use more than 1.6 gallons of water per flush.  
 - Any showerhead manufactured to have a flow capacity of more than 2.5 gallons of water per minute.  
 - Any interior faucet that emits more than 2.2 gallons of water per minute.

ALL EXISTING FIXTURES TO BE VERIFIED AND REPLACED AS REQUIRED.

**CONSTRUCTION WASTE MANAGEMENT:**  
 A minimum of 65 percent of the construction waste generated at the site shall be diverted to recycle or salvage, per CGBSC 4.408.1.



**Domestic Clothes Dryer Vents – Length Limitations**

**Clothes Dryers**  
 The following regulations apply to domestic moisture exhaust ducts in accordance with the 2019 California Mechanical Code, Section 504.

- Duct shall terminate on the outside of building and be equipped with back-draft damper
- No screens shall be installed at duct termination
- Duct shall not be connected by sheet metal screws or other obstructive fasteners
- Duct shall not be connected to gas vent connector, gas vent, or chimney and shall only serve clothes dryers
- Ducts under positive pressure shall not extend into or through ducts or plenums

**Domestic Clothes Dryers**  
 Where a compartment or space for a domestic Type 1 clothes dryer is provided, the following restrictions apply:

- Minimum 4-inch diameter moisture exhaust duct approved material shall be installed
- Ducts shall be insulated through attic and crawl space with 1-3/4" pound fiberglass duct wrap
- Domestic clothes dryer vents shall be made of metal and have smooth interior surfaces
- Transition ducts used to connect the dryer to the exhaust duct shall be listed and labeled in accordance with UL 2158A

**Exception:** Listed clothes dryer transition ducts not more than 6-feet in length may be used in connection with domestic dryer exhausts.

**Length Limitation**

- Unless otherwise permitted or required by the dryer manufacturer's installation instructions, and approved by the Building Official, domestic dryer moisture exhaust ducts shall not exceed a total combined horizontal and vertical length of 14-feet, including two 90-degree elbows
- Two feet shall be deducted for each 90-degree elbow in excess of two

**Exception:** Where an exhaust duct power ventilator, in accordance with Section 504.4.2.3, is used, the maximum length of the dryer exhaust duct shall be permitted to be in accordance with the dryer exhaust duct power ventilator manufacturer's installation instructions.

**Exhaust Duct Power Ventilators**

- Dryer exhaust duct power ventilators for single residential clothes dryers shall be listed and labeled in accordance with UL 705 and installed in accordance with the manufacturer's installation instructions.

**Termination of Environmental Air Ducts**

- Ducts shall terminate a minimum of 3-feet from property line and 3-feet from openings into the building

**Provisions for Makeup Air**

- Where a closet is designed for the installation of a clothes dryer, an opening of not less than 100 square inches (0.065m<sup>2</sup>) for makeup air shall be provided in the door or by other approved means.

? A clothes dryer exhaust duct shall not be connected to a vent connector, gas vent, chimney, and shall not terminate into a crawl space, attic, or other concealed space.

? Exhaust ducts shall not be assembled with screws or other fastening means that extend into the duct and that are capable of attaching lint, and that reduce the efficiency of the exhaust system.

? Exhaust ducts shall be constructed of rigid metallic material.

? Transition ducts used to connect the dryer to the exhaust duct shall be listed and labeled in accordance with UL 2158A, or installed in accordance with the clothes dryer manufacturer's installation instructions.

? Devices, such as fire or smoke dampers that will obstruct the flow of the exhaust shall not be used. Where joining of ducts, the male end shall be inserted in the direction of airflow.

**FOOTINGS GENERAL NOTE:**

- DEPTH OF FOOTINGS BELOW THE NATURAL AND FINISHED GRADES SHALL NOT BE LESS THAN 24 INCHES FOR EXTERIOR AND 18 INCHES FOR INTERIOR FOOTINGS.
- EXTERIOR WALLS AND INTERIOR BEARING WALLS SHALL BE SUPPORTED ON CONTINUOUS FOOTINGS.
- FOOTINGS SHALL BE REINFORCED WITH FOUR 1/2-INCH DIAMETER DEFORMED REINFORCING BARS. TWO BARS SHALL BE PLACED 4 INCHES FROM THE BOTTOM OF THE FOOTING AND TOW BARS WITHIN 4 INCHES FROM TOP OF THE FOOTING. REINFORCEMENT SHALL HAVE A MINIMUM 3-INCH CONCRETE COVER FOR CONCRETE CAST AGAINST EARTH AND REINFORCEMENT NOT EXCEEDING 5/8-INCH SHALL HAVE MINIMUM 1-1/2-INCH CONCRETE COVER WHEN NOT CAST AGAINST EARTH.
- CONCRETE FLOOR SLABS ONO GRADE SHALL BE PLACED ON A 4-INCH FILL OF COARSE AGGREGATE OR ONO A 2-INCH SAND BED COVERED WITH A MINIMUM 6 MIL MOISTURE BARRIER MEMBRANE. THE SLABS SHALL BE AT LEAST 3 1/2 INCHES THICK AND SHALL BE REINFORCED WITH 1/2" DIAMETER DEFORMED REINFORCING BARS. REINFORCING BARS SHALL BE SPACED AT INTERVALS NOT EXCEEDING 16 INCHES EACH WAY.
- THE SOIL BELOW AN INTERIOR CONCRETE SLAB SHALL BE SATURATED WITH MOISTURE TO A DEPTH OF 18 INCHES PRIOR TO PLACING THE CONCRETE.
- ALL DRAINAGE ADJACENT TO FOOTINGS SHALL BE CONDUCTED AWAY FROM THE STRUCTURE BY 3-FT WIDE SLOPED APRON DRAINING INTO AN APPROVED NON-EROSIVE DEVICE.

34941 Calle Del Sol  
Capistrano Beach, CA 92624  
Phone (949) 542-8777 / 101  
email admin@amgencorp.com

OCGG DESIGN

3100 CARRILLO AVE. SUITE 100  
FARMERSVILLE, CA 92334  
Tel: (951) 251-1111  
Fax: (951) 251-1112  
WWW.OCGGDESIGN.COM

**ENTR & SECOND FLOOR ADDITION**

**113 SHARON DR. POMONA, CA 91767**

**(E&P) FLOOR PLANS**

NO.	DATE	ISSUE NOTE
1	12/27/2023	BUILDING PERMIT APPLICATION
2	2/4/2024	REVIEW COMMENTS REPLY

3/11/24

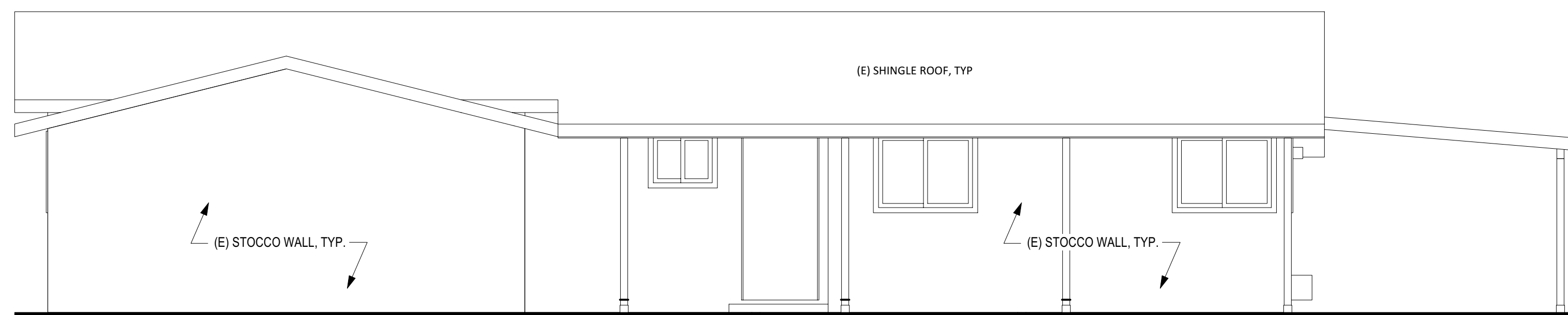
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Drawn By: OC  
 Project ID: 100-34  
 Sheet No.: A-2.0

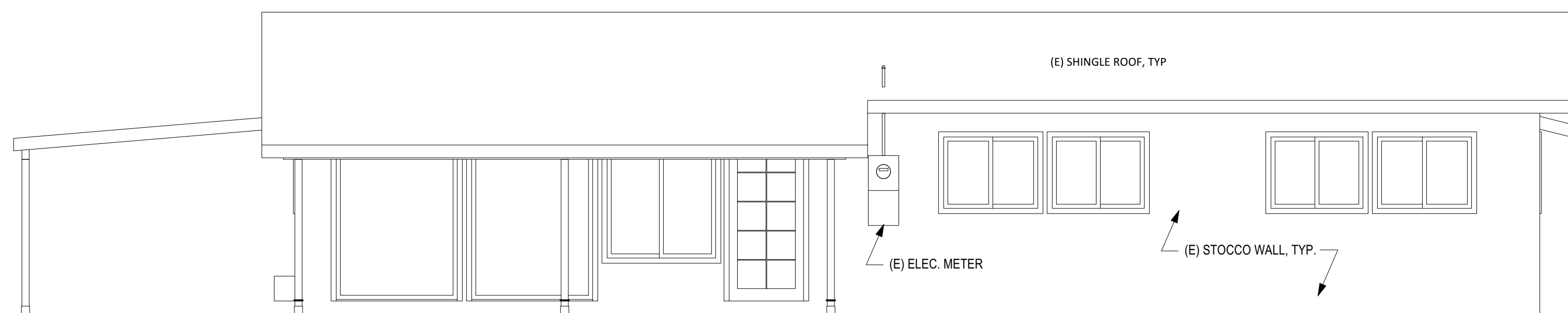




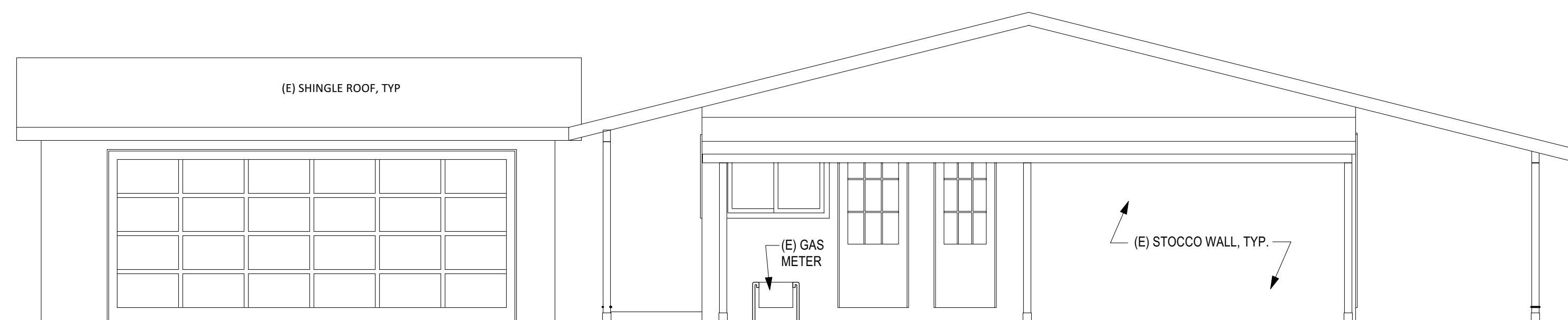




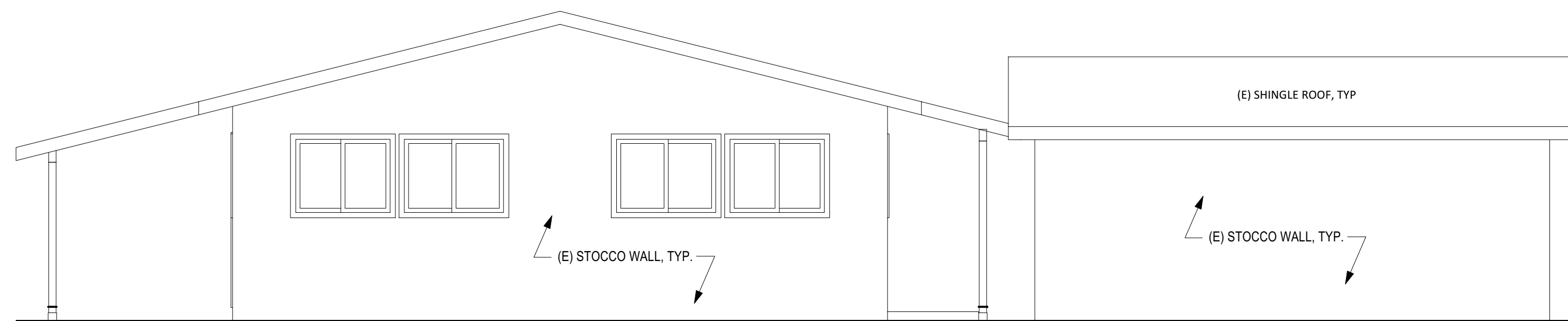
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Scale: 1/4" = 1'-0"



2 (E) NORTH (REAR) ELEVATION  
Scale: 1/4" = 1'-0"

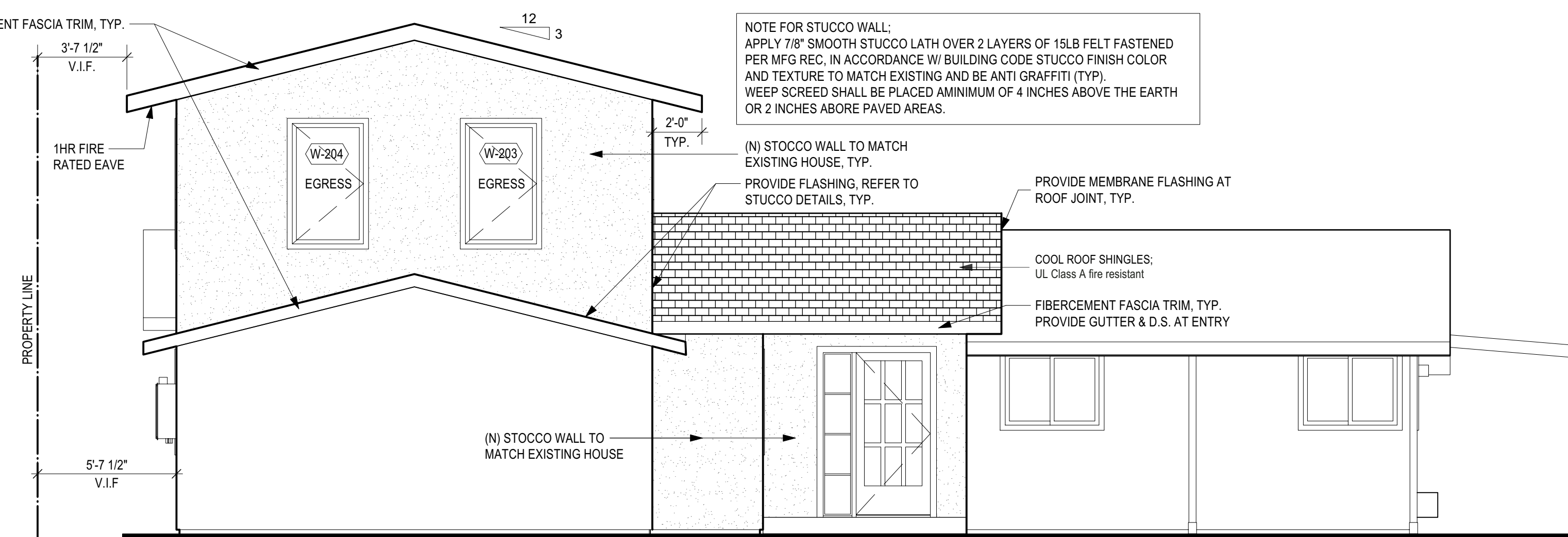


3 (E) SIDE (EAST) ELEVATION  
Scale: 1/4" = 1'-0"

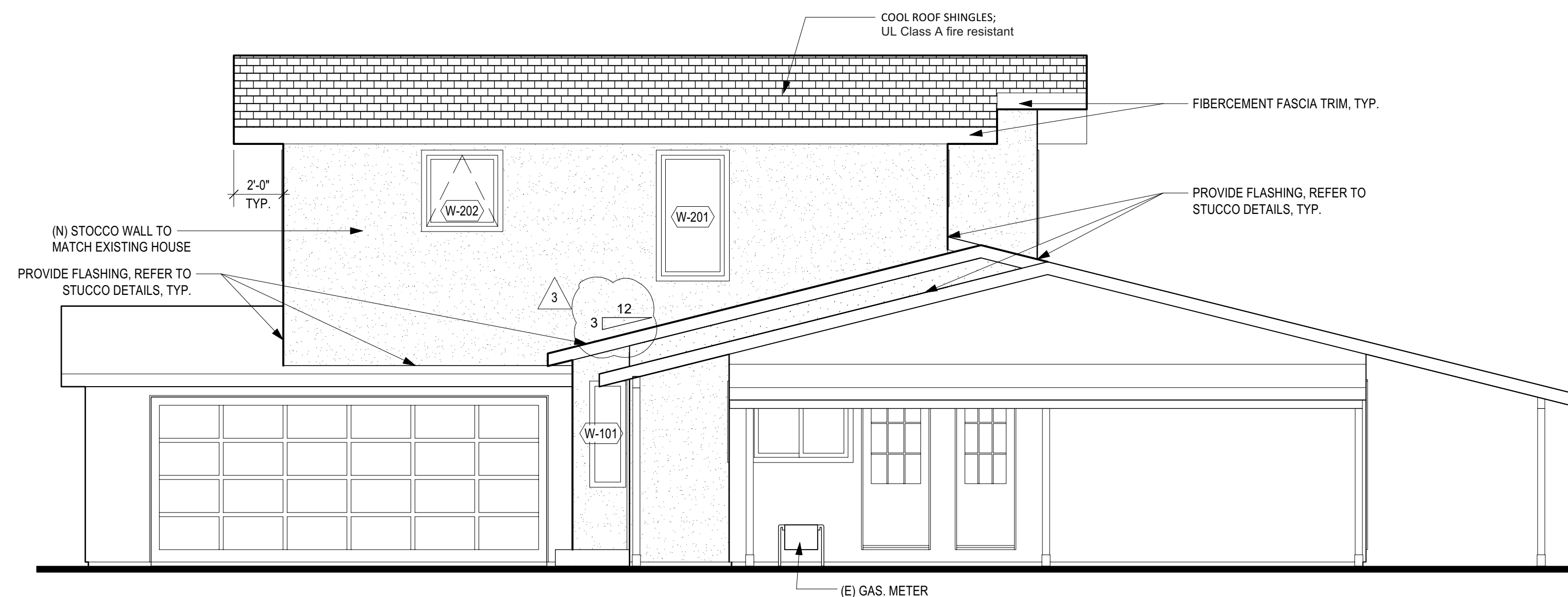


4 (E) SIDE (WEST) ELEVATION  
Scale: 1/4" = 1'-0"

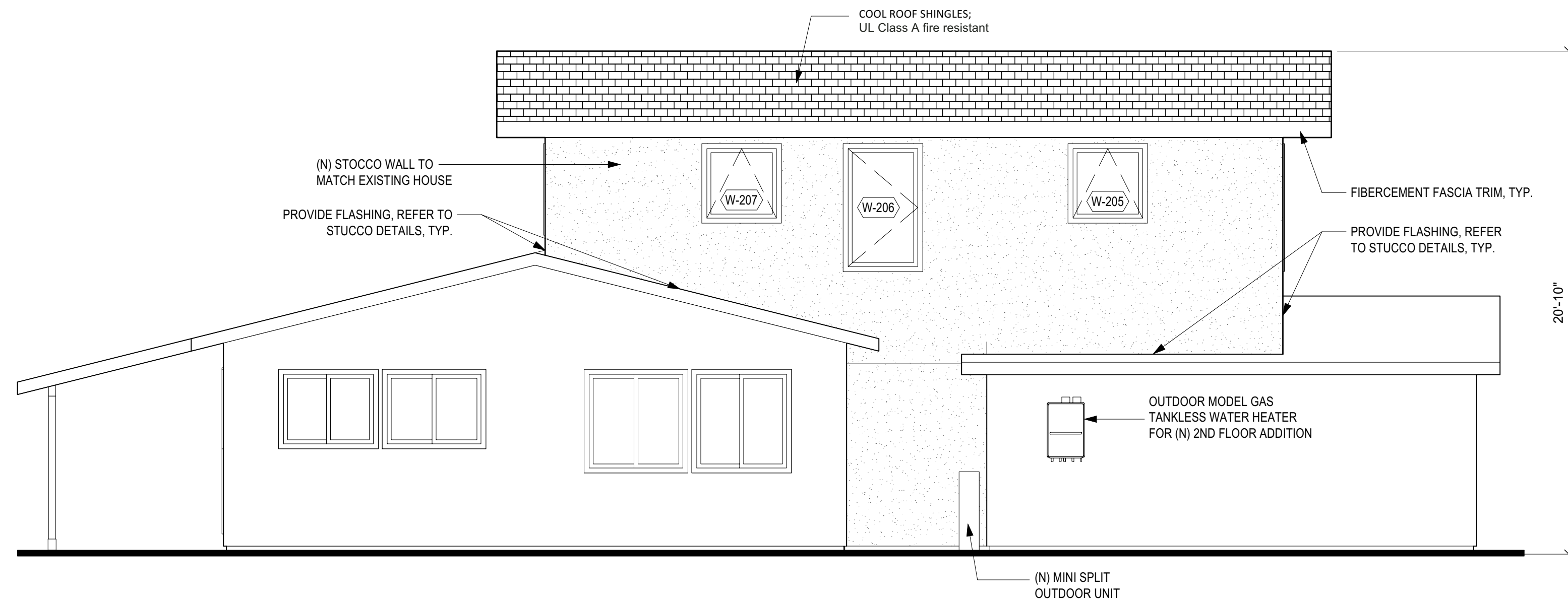




1 (P) FRONT (SOUTH) ELEVATION  
Scale: 1/4" = 1'-0"

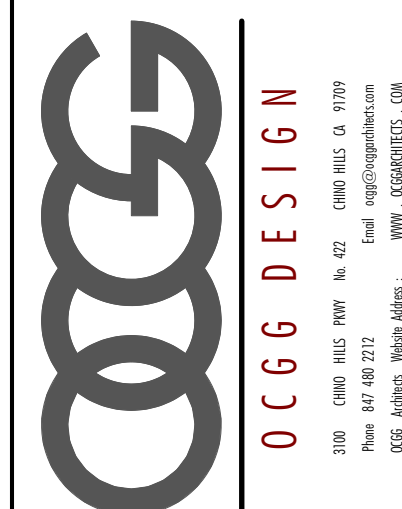


2 (P) SIDE (EAST) ELEVATION  
Scale: 1/4" = 1'-0"



3 (P) SIDE (WEST) E ELEVATION  
Scale: 1/4" = 1'-0"

**AGC**  
American General Corporation  
34941 Calle Del Sol  
Capistrano Beach, CA 92624  
Phone (949) 542-8777 / 101  
email [admin@amgencorp.com](mailto:admin@amgencorp.com)



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## ENTRY & SECOND FLOOR ADDITION

1113 SHARON DR. POMONA, CA 91767

(P) ELEVATIONS

NO.	DATE	ISSUE NOTE
1	12/27/2023	BUILDING PERMIT APPLICATION
2	2/4/2024	REVIEW COMMENTS REPLY
3	3/11/2024	PW & PLANNING COMMENTS REPLY

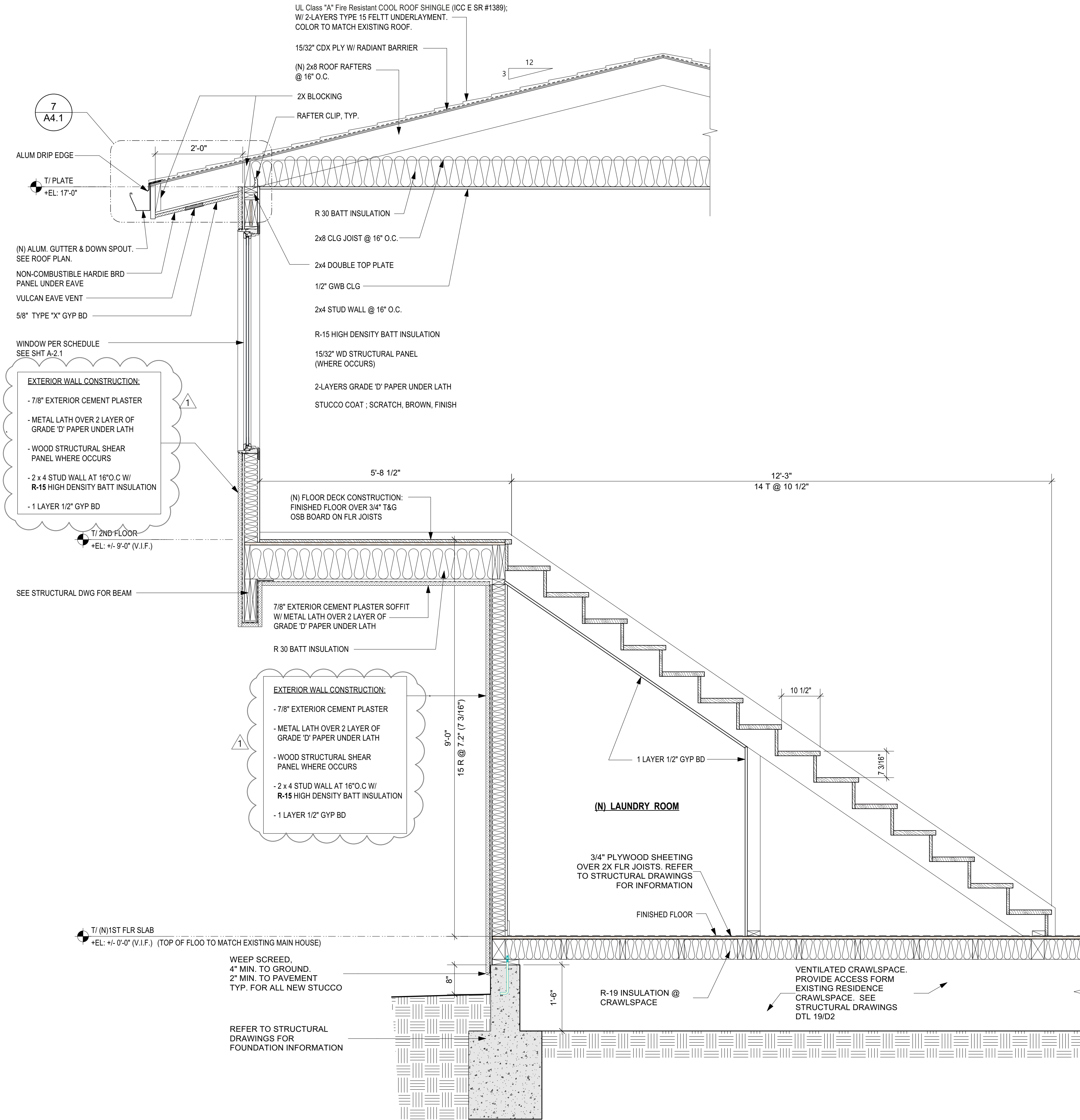


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GREGORY GESLICH, NCBAB, REGISTERED CALIFORNIA ARCHITECT  
CALIFORNIA LICENSE NO. C 40389, LICENSE EXPIRATION: 11/30/2011

Drawn By OC	Sheet No.
Project ID 100-34	A-3.1

### A-3.1

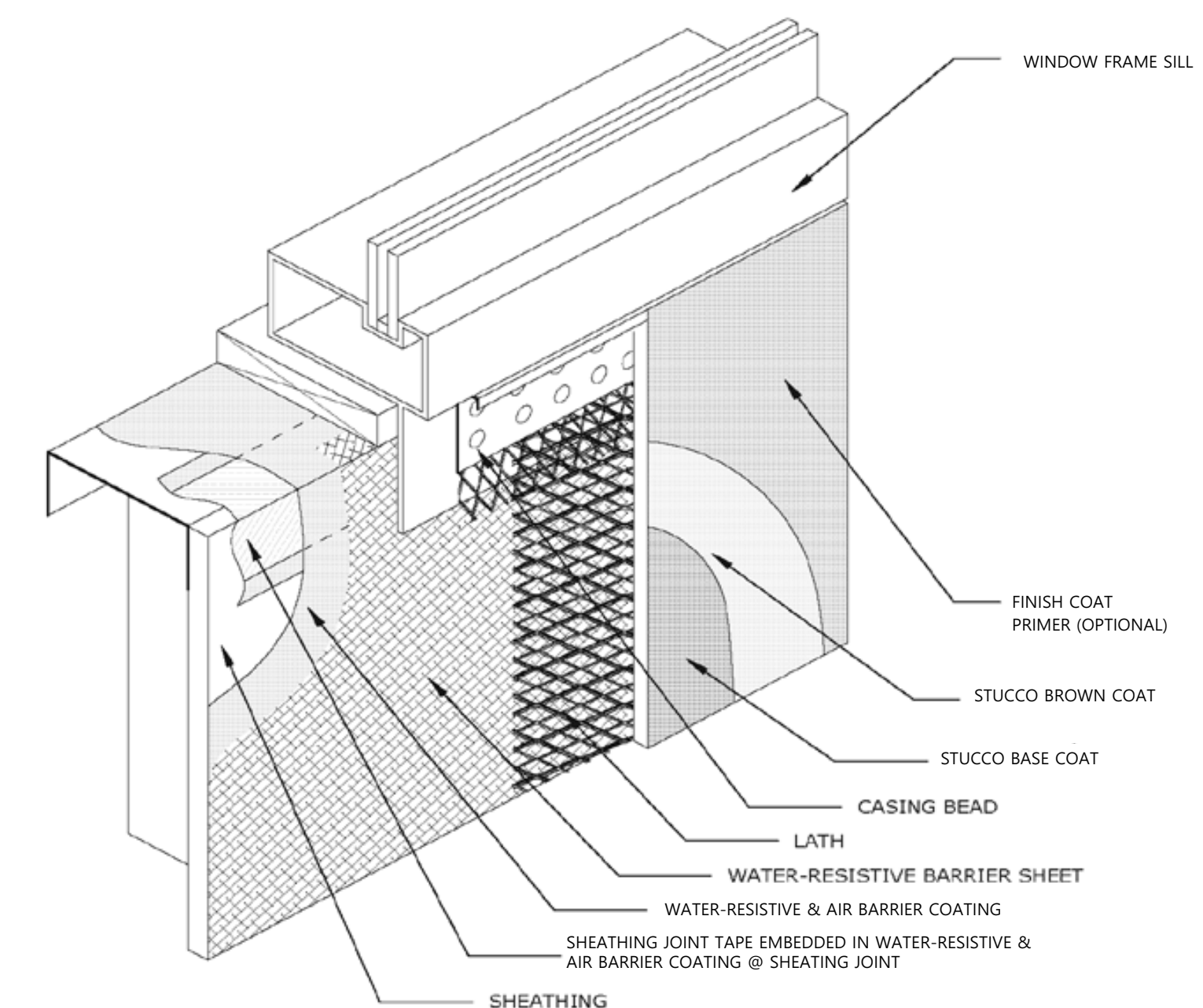
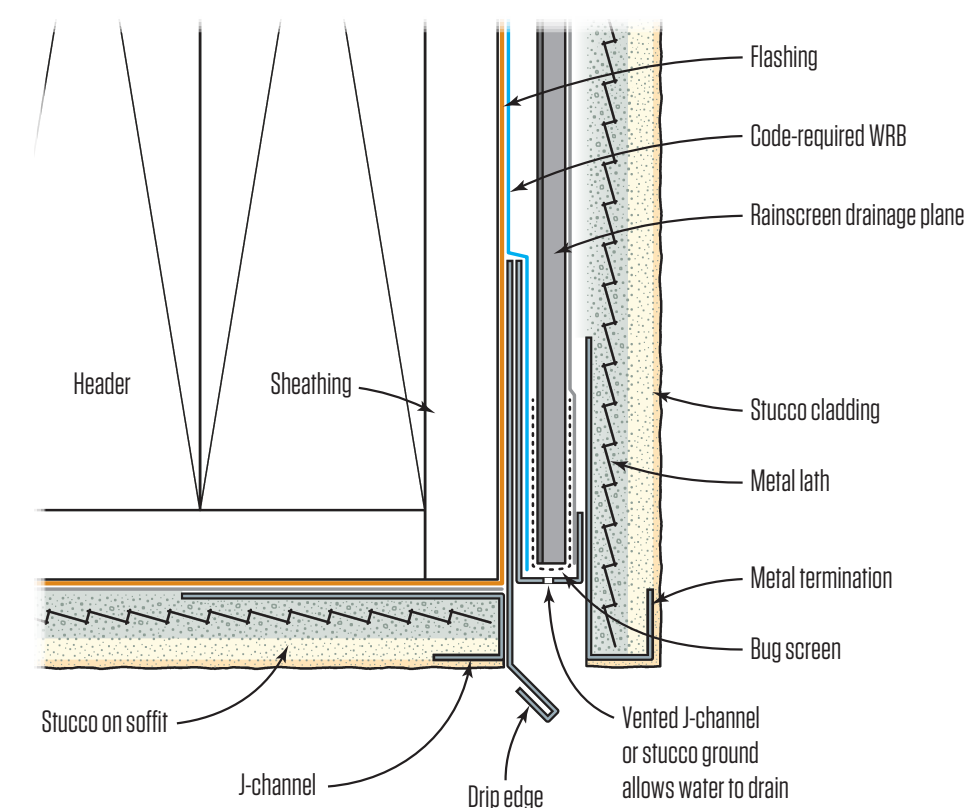
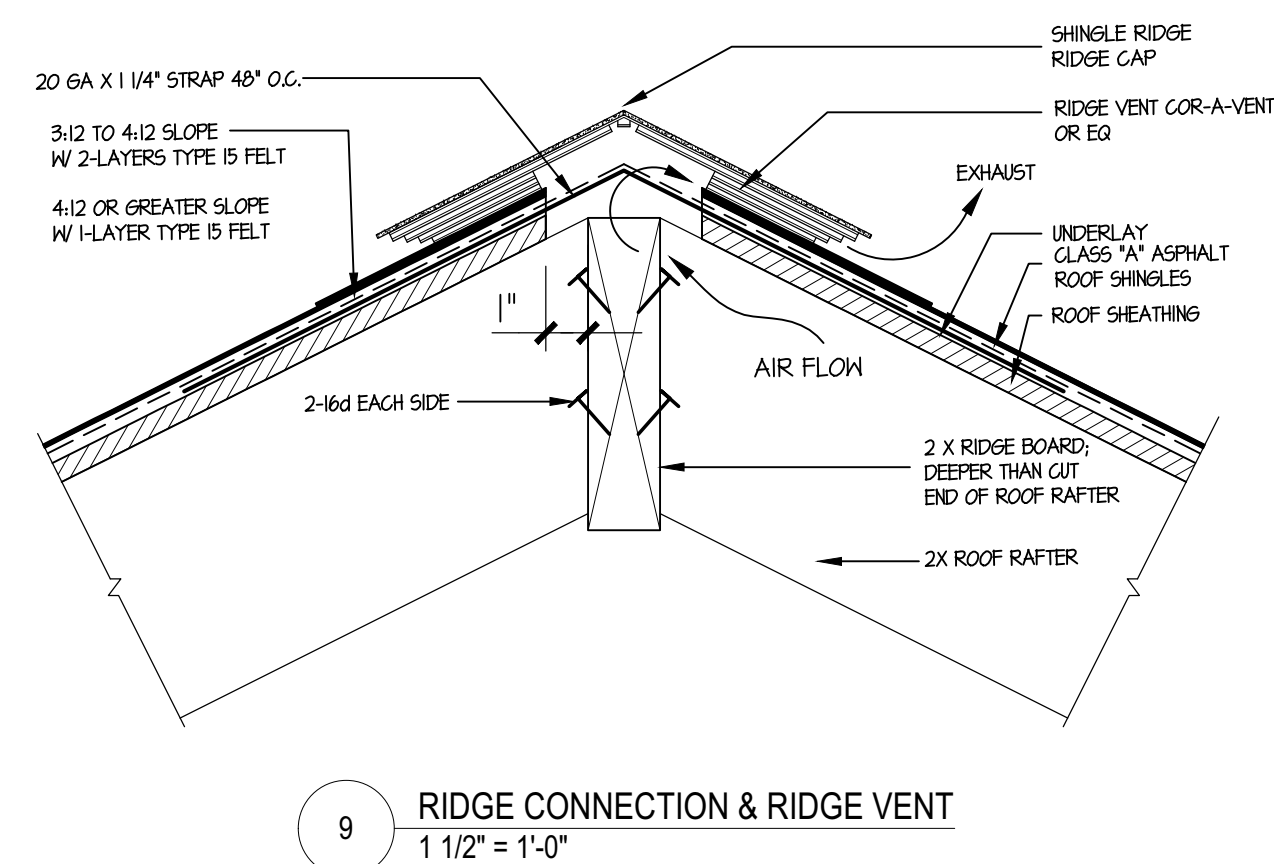
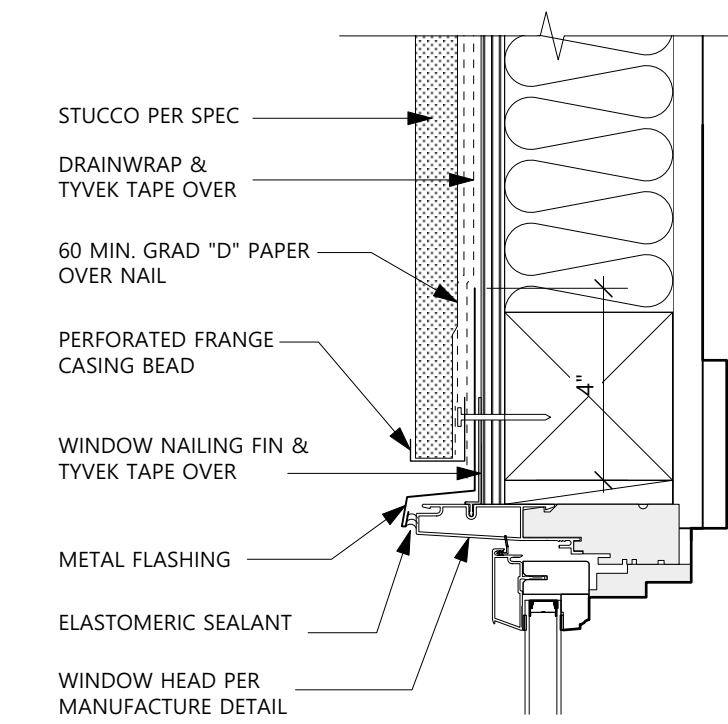
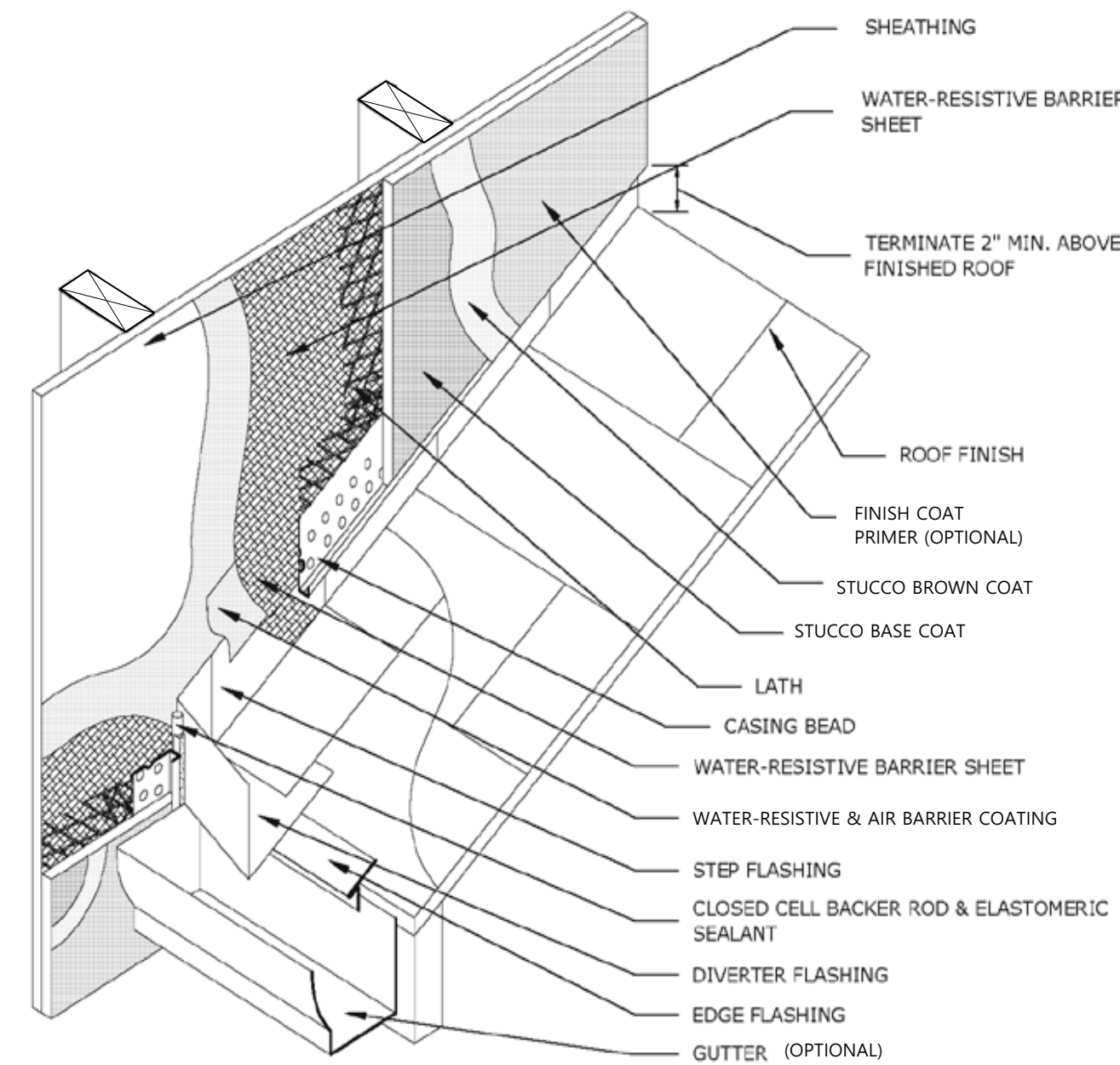
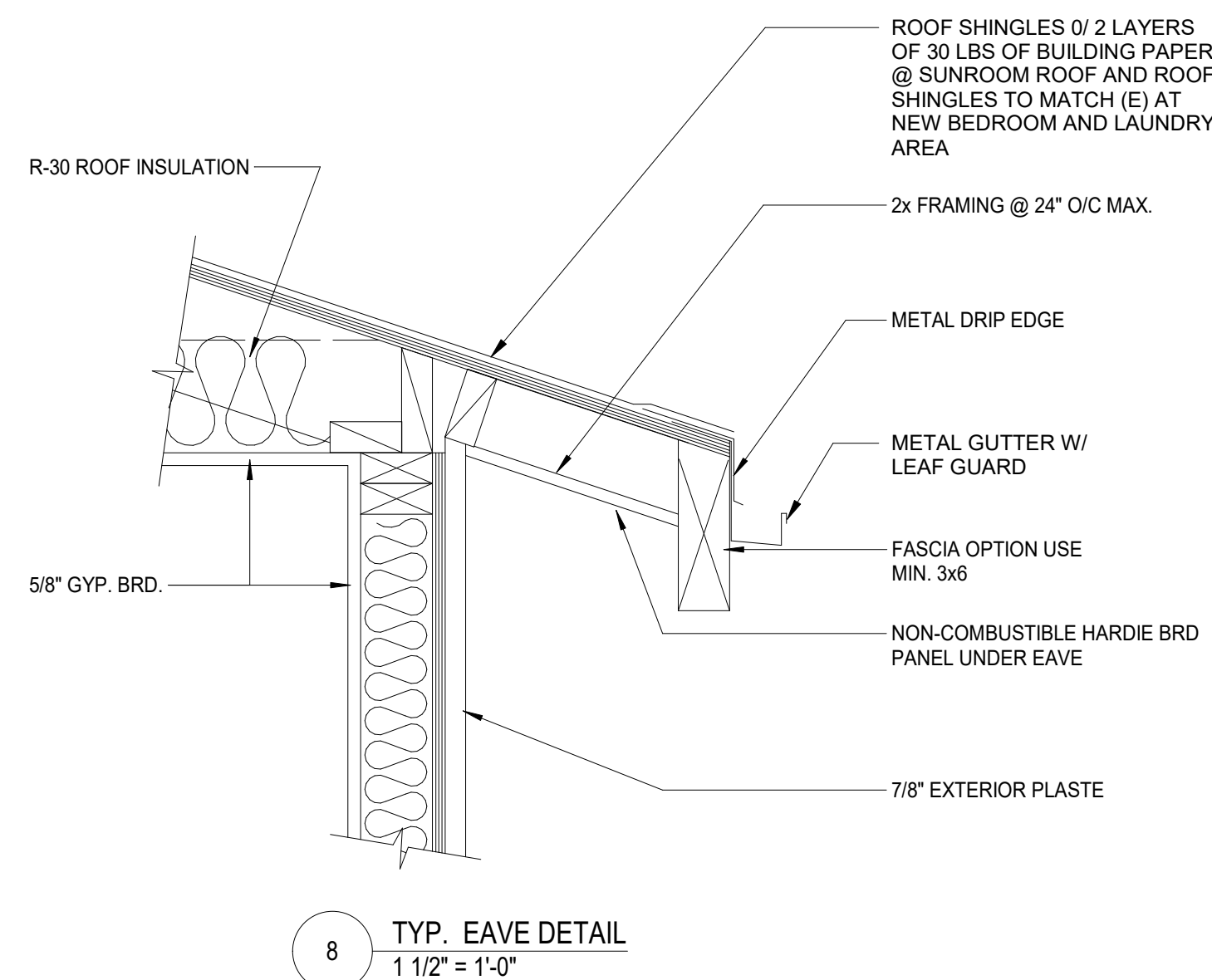
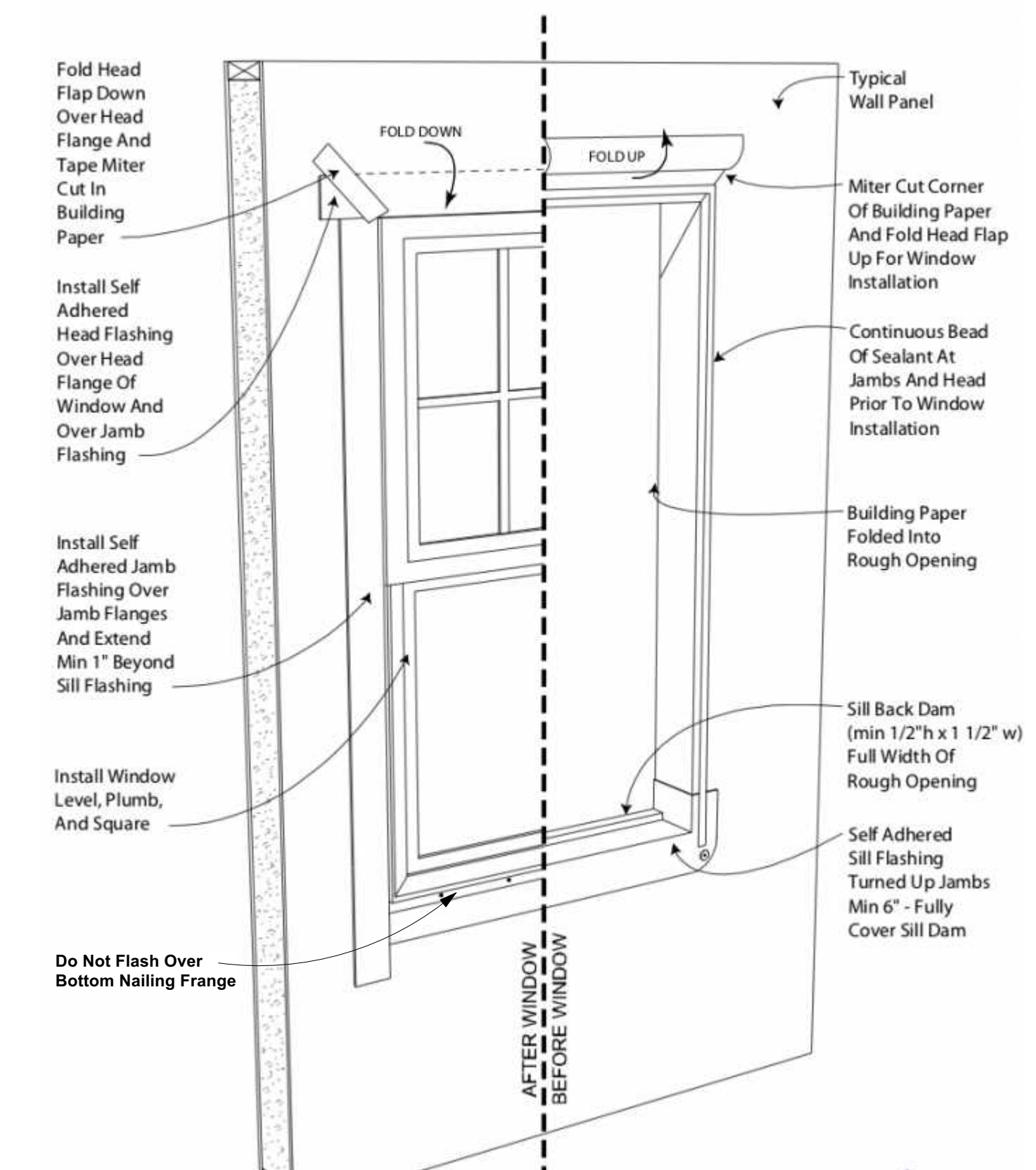
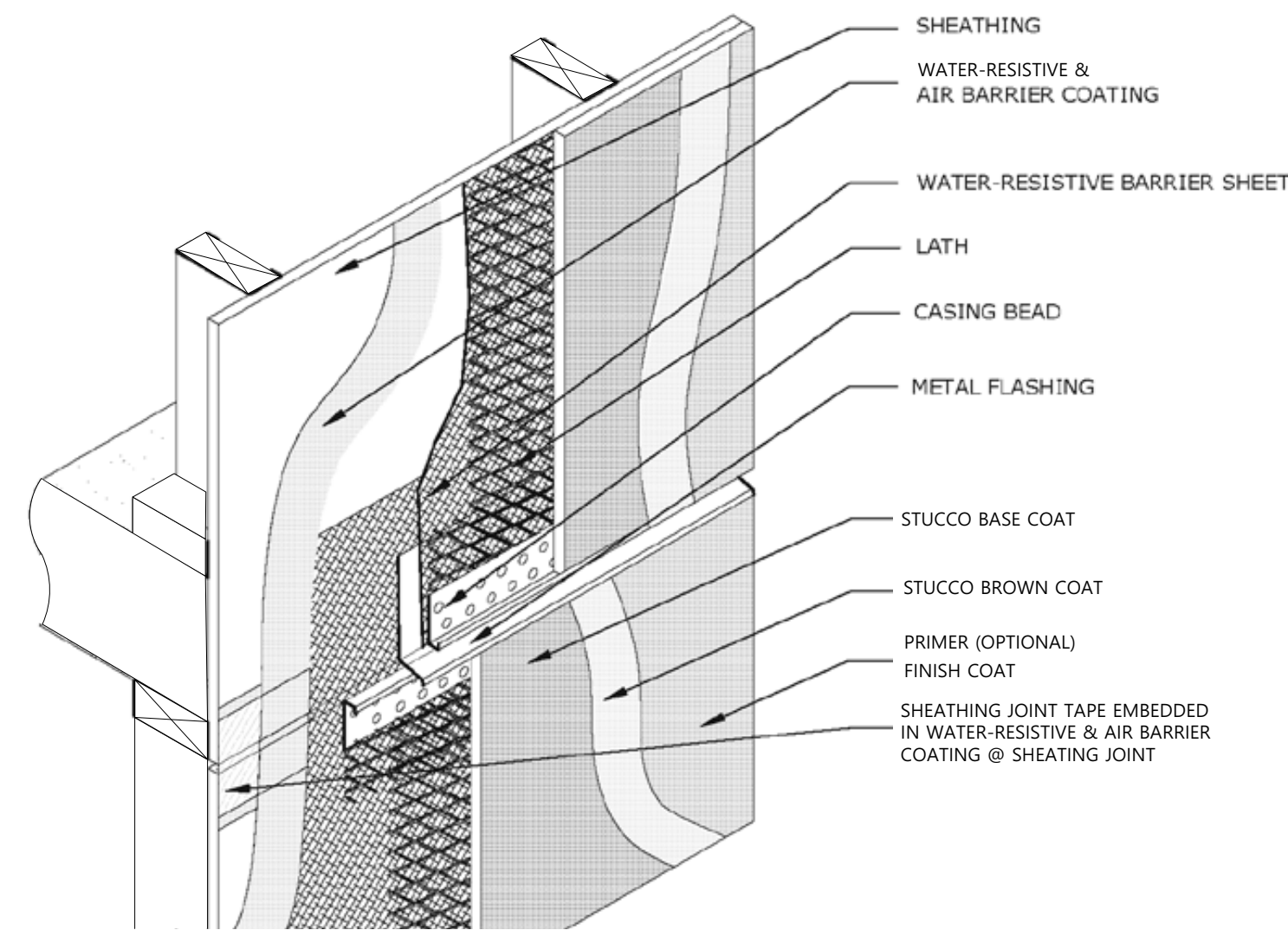
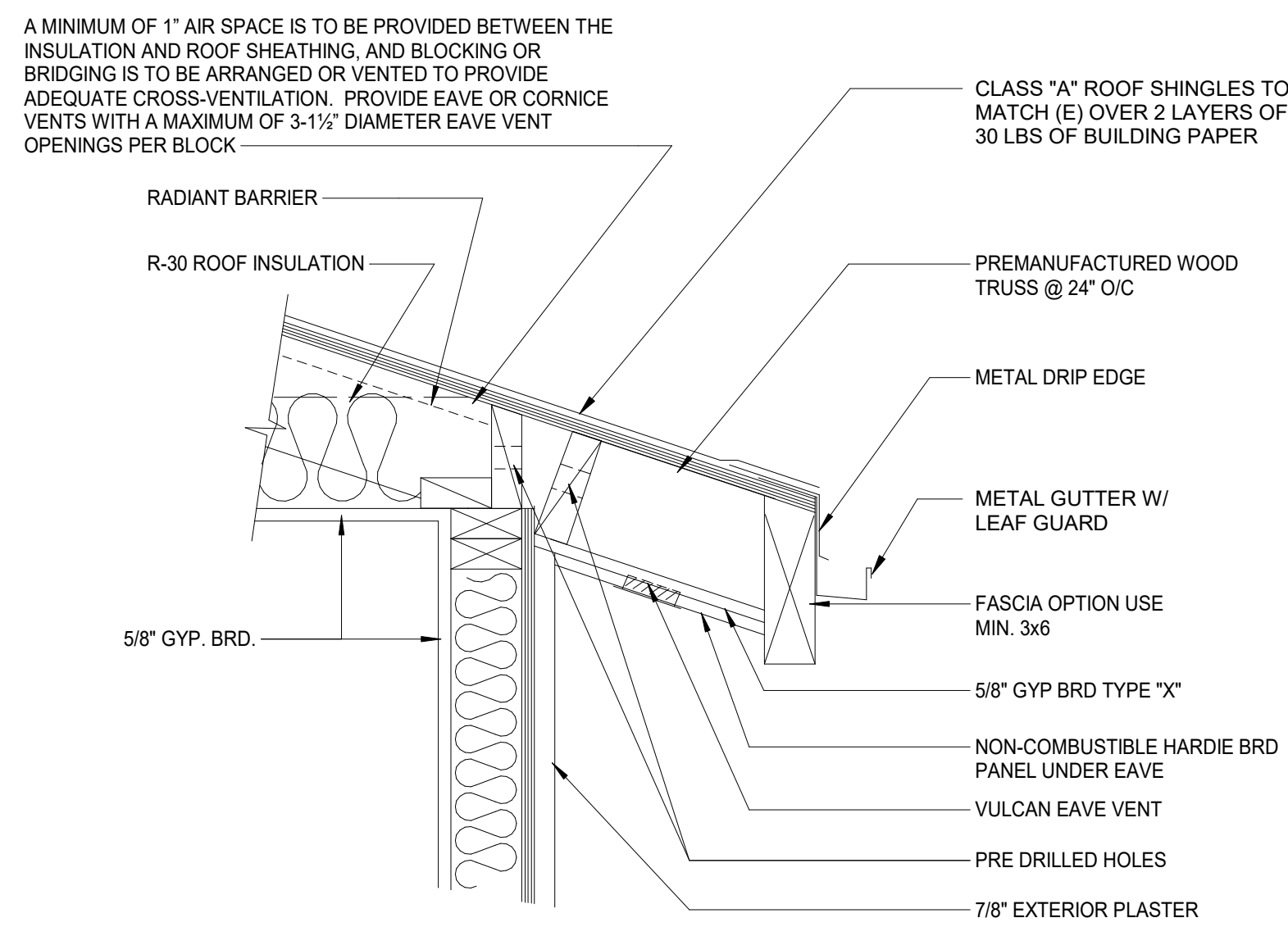




1 **WALL SECTION AT STAIR**  
Scale: 3/4" = 1'-0"

NO.	DATE	ISSUE NOTE
1	12/27/2023	BUILDING PERMIT APPLICATION
2	2/4/2024	REVIEW COMMENTS REPLY


















MATERIAL	UNDERGROUND DRAIN, WASTE, VENT PIPE AND FITTINGS	ABOVEGROUND DRAIN, WASTE, VENT PIPE AND FITTINGS	BUILDING SEWER PIPE AND FITTINGS	REFERENCED STANDARD(S) PIPE	REFERENCED STANDARD(S) FITTINGS
ABS (Schedule 40)	X	X	X	ASTM D2661, ASTM D2680*	ASTM D2661, ASTM D2680*

WP	WATER PROOF / WEATHER RESISTANT
	EXHAUST FAN - ENERGY STAR HUMIDISTAT CONTROLLED FANS, DUCTED OUT MIN. 3 FT AWAY FROM WINDOWS AND DOORS.
	RECESSED 6" FIXTURE
•	LED UNDERCABINET PUCK LIGHT
	WALL SCONCE
	SURFACE MOUNTED FIXTURE
	STRIP LIGHT FIXTURE
	LED FLUSH MOUNT CEILING LIGHT
	CEILING FAN W/ LIGHT
	ELEC. METER & DISCONNECT
	ELEC. PANEL



GENERAL NOTES

1. All work shall conform to the requirements of the Department of Building and Safety and all other applicable codes, ordinances and regulations. See note on plans or use most current editions of 2022 CBC
2. Notify the Architect before commencing any work on items where discrepancy or omissions from the drawings are encountered or where there is any doubt as to the meaning. Contractor shall attend job walk prior to submitting bid. All demo work and site conditions to be noted and incorporated into bid.
3. Any work or material shown on either drawings or specified in writing shall be executed as though covered by both.
4. Any conflict or errors in the drawings and specifications shall be reported to the Architect before proceeding. Dimensions shall not be scaled from drawings. Dimensions given on the drawings shall be verified by the contractors and all subcontractors on the job site.
5. All work and workmanship shall comply strictly with the requirements of the governing codes and other governing ordinances. Where work exceeding these requirements is not specifically called for in the contract documents, they shall be considered minimum standards of performance for the work of this contract.
6. Disclaimer: The project Architect or Engineer will not be responsible for any action taken by anyone on the project if that person has knowledge of any discrepancies, omission, or ambiguity in the calculation, drawings, or specifications, until the project Architect or Engineer has been notified, corrected the discrepancy, made teh inclusion, or more clearly explained the intent of the calculations, drawings or specifications.
7. Dimensions have preference over scale. All dimensions are to the face of the studs unless otherwise noted.
8. General Contractor and sub-contractors shall be required to obtain his own permit, city license, state license, and insurance.
9. General Contractor and sub-contractors shall clean up and remove from the premises, from time to time, all waste material and debris of every description which may accumulate in or about the premises as a result of his work.
10. General Contractor and sub-contractors are to review all the contract documents, other sections, drawings, etc. since they may include work which they are responsible for and should be included in their bid and as a part of the construction coordination with other trades.
11. Architect shall not be held responsible for changes or additions to this project, by owner, or contractor, or anyone else.
12. Utility Services: Contractor and subcontractors shall confirm locations of utilities and notify all persons working on site of existing utilities. Contractor shall locate and identify active utility services and temporarily deactivate them when they constitute a hazard. Location of gas, electric, adn water meters to conform with utility company requirements. Prior to digging, the contractor and/or subcontractor shall notify the Underground Service Alert at (800) 422-4133 at least two (2) days prior to excavation.
13. Any energy calculations, and Structural calculations shall be considered a part of this contract document and shall remain on site during the course of construction along with the drawings, shop drawings, and specifications for review by any subcontractor. This information shall be available during the bidding period. All subcontractors are responsible for reviewing and understanding their content. Any errors, omission, lack of clarity, shall be brought to teh attention of the Architect for clarification.
14. The Contractor, Subcontractors, and Owner shall comply with all Federal, State, and local Environmental Laws, Rules, and Regulations as well as all Fed OSHA rules. This includes, but is not limited to all Rules adopted by the controlling Air Quality Management District which may cover paints and solvents and asbestos removal, also all regulations regarding usage of hazardous materials, storage, disposal, and transportation of hazardous wastes. The Architect shall be held harmless and indemnified by the Owner and Contractor for any litigation relative to environmental compliance. It is understood the Architect is not responsible for this area and the Owner and Contractor must be diligent in this area.
15. All Details, Sections, and Notes shown on drawings are intended to be typicla and shall apply to similar situations elsewhere unless otherwise noted.
16. The details on the drawings shall be used wherever applicable unless noted otherwise on the drawings. Notes and details on the drawings shall take precedence over general notes and typical details.
17. Contractor agrees he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all normal working hours, and the contractor shall defend, indemnify, and hold the owner and the architect harmless form any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the owner or the architect.
18. Observation visits to the job site by the architect's and engineer's field representatives shall neither be construed as inspection nor approval of construction.
19. During and after construction, the builder and owner shall keep loads on the structure within the limits of design loads as set forth in the governing building code.
20. Protect existing construction finishes, adjacent property, planting and trees. Protect the work from rain and other natural elements. Repair, refinish, or replace any items damaged during construction.
21. Temporary electric and water services shall be furnished and paid for by the owner unless otherwise negotiated.
22. Contractor shall provide a temporary toilet in accordance with local ordinances if no existing toilet is available on site.
23. Liability Insurance and Worker's Compensation Insurance: Contractor and subcontractors shall purchase and maintain, complete coverage to protect the claims under worker's compensation acts, adn have current liability insurance, and show proof thereof.
24. The drawings are the property of the architect or engineer and are protected by U.S. copyright laws.
25. If it is discovered the contractor and/or his subcontractors have knowledge of any errors, omissions, or discrepancies which were not brought to the attention of the architect prior to their contract and subsequently result in an extra, said contractor may be held liable for withholding such information.

MICROLLAMS / PARALLAMS / TIMBERSTRAND

- 1) MICROLLAMS/PARALLAMS/TIMBERSTRANDS SHALL BE FABRICATED BY THE TRUS-JOIST OR AN APPROVED EQUAL IN STRUCTURAL DESIGN AND LOAD VALUES, AND CONFORM TO ICC ESR-1387 AND SHALL HAVE THE DESIGN STRESSES (100 % LOAD DURATION) (2)
- | CATEGORY | E psi               | F(t) psi            | Fc I psi            | Fc II psi | Fv psi |     |
|----------|---------------------|---------------------|---------------------|-----------|--------|-----|
| 1        | 1.5X10 <sup>6</sup> | 2250 <sup>(4)</sup> | 650                 | 1950      | 285    |     |
| 2        | 1.9X10 <sup>6</sup> | 2600 <sup>(3)</sup> | 750                 | 2310      | 285    |     |
| 3        | PARALLAM PSL        | 2.0X10 <sup>6</sup> | 2900 <sup>(1)</sup> | 650       | 2900   | 290 |
- (1) FOR 12 INCH DEPTH, FOR OTHERS, MULTIPLY BY (12/4) 0.111
- (2) Fe I SHALL NOT BE INCREASED FOR DURATION OF LOAD.
- (3) DEPTHS GREATER THAN 12", MULTIPLY F(t) BY (12/4) 0.136
- (4) DEPTHS GREATER THAN 12", MULTIPLY F(t) BY (12/4) 0.092
- 2) FOR NOTCHING, DRILLING, AND MULTIPLE MEMBER CONNECTION, COMPLY WITH MFC'S SPECIFICATION OR CALL MESA ENGINEERING.

SITE WORK

1. Provide temporary sanitation facilities during duration of construction.
2. No trenches or excavations 5' or more in depth into which a person is required to descend or obtain necessary permit from the State of California Division of Industrial Safety prior to issuance of a building or grading permit.
3. Site Clearing- All existing vegetation shall be stripped and halved off from the site.
4. Maintenance of Site- The Architect, Engineer, Contractor, or any Subcontractors shall not be held responsible for any damages to the dwelling or of the surrounding site as a result of the owner's maintenance practices; however, the following should be passed on to the owner as recommendations for maintenance of graded site.
- 1) Maintain existing slope planting, providd new approved planting where lacking and maintain irrigation systems in working order
- 2) Maintain paved diverter terrace, intercepter terraces, downdrains, oportanences such as inlets and velocity reducer structures in clean conditions and in good repair.
- 3) Earth berms prevent water from flowing over slopes. It is important these berms be maintained.
- 4) Standing storm water on the pad area directly above descending slopes, whether natural, cut, or fill is a major contributor toward slope failure. It is important the pad drainage be maintained at a minimum of 2% to the street or other approved location to prevent this situation.
- 5) Side Swales which direct water around the house should be maintained so that they will not become ineffective.
- 6) Catch basins, grates, and subsurface drainage piping should be kept free of silt and debris.
- 7) Roof gutters and downsouts should be inspected periodically to assure they are not broken or clogged. All nonerosive drainage devices should be kept clean and in good repair.
- 8) Extensive landscaping or revisions to the property may seriously alter the surface drainage pattern. When landscaping, homeowners should avoid disrupting flow patterns created when the property drainage in hillside areas is from the rear yard to the street. Some properties drain to natural watercourse, or other specific watercourse intended for this use.
- 9) Any problems such as erosion should be repaired immediately in order that more serious problems may be averted.
- 10) Rodent activity should be controlled to prevent water penetration and loosening of the soil.

WOOD FRAMING

- 1) ALL LUMBER SHALL BE GRADE MARKED AND CONFORM WITH THE STANDARD GRADING AND DRESSING RULES (NO. 16) OF THE WEST COAST LUMBER INSPECTION BUREAU. MAXIMUM MOISTURE CONTENT NOT TO EXCEED 19%. FRAMING LUMBER TO MEET COAST DOUGLAS FIR LARCH AS FOLLOWS:
- ALL 4 X 12 AND SMALLER FRAMING MEMBERS.....#2, U.N.O.
- ALL 4 X 14, 4 X 16, 6 X 4 AND 8 X FRAMING MEMBERS.....#1, U.N.O.
- ALL 2 X JOISTS AND RAFTERS.....#2, U.N.O.
- ALL 2 X 4 STUDS.....CONSTRUCTION GRADE OR BETTER, U.N.O.
- ALL 2 X 6 AND LARGER STUDS.....#2 OR BETTER, U.N.O.
- ALL POST AND TIMBERS.....#1, U.N.O.
- 2) ALL RESAWN AND ROUGHSAWN BEAMS ARE TO BE DELIVERED FREE OF HEART CENTER.
- 3) ALL SILL PLATES RESTING ON CONCRETE OR MASONRY TO BE PRESSURE TREATED DOUGLAS FIR.
- 4) PLYWOOD FOR ROOF SHEATHING SHALL BE CDX, USE EXTERIOR TYPE, MIN. GRADE WHERE PLYWOOD IS EXPOSED TO WEATHER. THE SPACING IN INCHES OF ROOF AND FLOOR SUPPORTS OVER WHICH PANELS ARE APPLIED SHALL NOT EXCEED THE SPACING STAMPED ON THE PANELS. PLYWOOD SHALL BE DOUGLAS FIR SHEATHING CONFORMING TO PS-149, AND OR PS-242 UNITED STATE DEPARTMENT OF COMMERCE AND SHALL BE GRADE STAMPED THE "P" A "C" EXTERIOR GLUE.
- 5) PLACE PLYWOOD SHEATHING PERPENDICULAR TO JOIST AND "C" FACE DOWN.
- 6) NAILS FOR FRAMING WORK TO BE "COMMON" OR "BOX" TYPE U.N.O. ON PLANS.
- 7) ALL METAL ANCHORS, FASTENERS AND CONNECTORS ETC. SPECIFIED ON PLANS SHALL BE FROM THE SIMPSON STRONG-TIE COMPANY OR AN APPROVED EQUAL IN STRUCTURAL DESIGN AND LOAD VALUES. FULLY NAIL OR BOLT ALL HARDWARES, IE, STRAPS, PAHDS, HANGERS, PIBC, PCCC, ETC.
- 8) ALL JOIST HANGERS TO BE SIMPSON "U" HANGERS U.N.O. OR APPROVED EQUAL IN STRUCTURAL DESIGN AND LOAD VALUES.
- 9) ALL INTERIOR WALLS TO BE SECURED WITH SHOT PINS PER MANUFACTURERS RECOMMENDATIONS. U.N.O. RECOMMEND RAME#16 @ 48" O.C. AT NON-SHEAR/NON-BEARING WALLS, NOTE: CALCULATIONS GOVERN IN ALL CASES. REFER TO ICC ESR-1463.
- 10) ALL CONVENTIONAL FRAMED PORTIONS TO BE CONSTRUCTED PER SECTION 2320 OF THE C.B.C.
- 11) ALL NAILING IS TO BE PER TABLE NO. 234-B-4 OF THE C.B.C.
- 12) PROVIDE 2 X 6 RAFTERS @ 24" O.C., W/ MAXIMUM SPAN 9'-4" AT CALIFORNIA FRAMING.
- 13) PROVIDE DOUBLE FLOOR JOISTS BELOW ALL PARALLEL PARTITIONS, AND SOLID BLOCK JOIST BETWEEN WALLS AND BEARING PORTIONS.
- 14) PROVIDE SOLID BLOCKING BETWEEN JOIST UNDER WALLS PERPENDICULAR TO FLOOR JOIST.
- 15) PROVIDE MINIMUM 2 X 6 STUDS AT PLUMBING WALLS.
- 15) USE MINIMUM 3 X NOMINAL MEMBERS WHEN NAIL SPACING IS @ 2" OR CLOSER CENTER TO CENTER AT SHEAR WALLS.
- 16) TOP PLATES OF ALL STUD WALLS SHALL BE TWO PIECES THE SAME SIZE AS STUDS, U.N.O. SPLICES TO LAP 4'-0" MINIMUM WITH A MINIMUM OF 60-16d NAILS PER SPLICE.
- 17) ALL BOLTS HEADS AND NUTS SHALL HAVE STANDARD CUT WASHERS AND ALL BOLT HOLES SHALL BE DRILLED 1/32" LARGER THAN THE BOLT DIAMETER.
- 18) PRE DRILL FOR NAILING WHEN NAIL SPACING RESULTS IN THE WOOD SPLITTING.
- 19) PROVIDE 1 X 6 DIAGONAL LET IN BRACING (2 APPROX. 45 DEGREES) EVERY 2'-0" MAXIMUM IN STUD WALLS NOT SHEATHED. NAIL WITH (2)-8dS PER STUD AND (3)-8dS AT EACH END TO PLATE (MINIMUM 6"-STUDS).
- 20) ALL BEAMS TO BE SUPPORTED WITH SAME WIDTH FULL BEARING STUDS OR POST, U.N.O.
- 21) ALL DOUBLE JOISTS ARE TO BE SECURED W/16d NAILS @ 12" O.C., STAGGERED. USE 1/2" DIA. MACHINE NUTS FOR JOIST OR MORE @ 18" O.C. STAGG. U.N.O.
- 22) ALL MULTIPLE STUDS TO BE ATTACHED WITH 16d NAILS AT 24" O.C.
- 23) STRUCTURAL MEMBERS SHALL NOT BE CUT FOR PIPES, CONDUIT, ETC. UNLESS SPECIFICALLY DETAILED BY THE ARCHITECT/ENGINEER.
- 24) APPLY SHEAR MATERIALS PRIOR TO FURRING, FROM BOTTOM PLATES TO TOP PLATES WITH NO INTERRUPTIONS. PROVIDE FURRING AS NON-SHEAR WALLS.
- 25) ALL ISOLATED POSTS AND BEAMS TO HAVE SIMPSON PPS AND PCS MIN. U.N.O.
- 26) HOLD DOWN ANCHORS, E.G. SIMPSON HDA'S, PAHDS, CBS, TO BE TIED IN PLACE PRIOR TO CALLING FOR INSPECTION.
- 27) VERIFY LOCATION OF HOLD DOWNS AND ANCHOR BOLTS WITH ROUGH FRAMING TO ASSURE PROPER AND ACCURATE INSTALLATION.
- 28) HDA'S AND PHDS TO BE INSTALLED IN ACCORDANCE WITH C.C. IS ER 5708.
- 30) ALL SIMPSON HDA, PHDA AND CB HOLD DOWNS TO BE FASTENED TO MIN. 4 X 4 POST.
- 31) LOCK NUTS ARE NOT DESIGNED TO SUPPORT WATER WEIGHT. ENGINEER SHALL BE NOTIFIED IF WATERBERDS ARE TO BE USED.
- 32) FRAMING FOR PRE-FABRICATED FIREPLACE FLUES SHALL BE BALLOON FRAMED FULL-HEIGHT USING 2 X 4 STUDS @ 16" O.C. BRACED AT MID HEIGHT, AND AT 12" FROM CORNERS.
- 33) USE 3X (MIN) OR 2X6 STUDS @ FIRST FLOOR OF 3-STORY BUILDING.
34. ALL THE LUMBER IN CONTACT WITH CONCRETE OR MASONRY (i.e. SILL PLATE & LEDGER, ETC.) TO BE PRESSURE TREATED DOUGLAS FIR.
- 35) THE SIZE OF ALL EXPOSED BEAMS SHOWN ON THE FRAMING PLANS ARE THE MIN. SIZE, FOR EXACT SIZE (THICKNESS & DEPTH) SEE ARCHT. DRAWG. AND COORDINATE WITH STRUCTURAL ENGINEER.
- 36) LAG BOLTS PROVIDE LEAD HOLE 70% OF THREADED SHANK dia. AND FULL dia. FOR SMOOTH SHANK PORTION. SOAP, PARAFIN OR OTHER APPROVED LUBRICANT SHALL BE USED ON THREADS.
- INSTALLATION SHALL BE BY SCREWING NOT HAMMERING. CARE SHALL BE TAKEN TO AVOID OVER TORQUING BOLT
- 37) ALL FLOOR SHEATHING SHALL BE NAILED AND GLUED TO FLOOR FRAMING.

FOUNDATION

- 1) ALL CONTINUOUS FOOTINGS TO HAVE 5/8" DIA. ANCHOR BOLTS WITH 3"x3"x1/4" WASHER @ 6" O.C. U.N.O. ON PLANS. USE MINIMUM (2)-4" X 8" SILL PLATE PER SHEAR WALL WITH (1)-ANCHOR BOLT @ MAXIMUM 12" FROM ENDS AND SPLICES (U.N.O.) (MIN. 7" EMBEDDED INTO CONC.)
- 2) ALL CONTINUOUS FOOTINGS TO HAVE MINIMUM (2)-4" REINFORCING BAR AT TOP AND BOTTOM, U.N.O.
- 3) VERIFY MINIMUM FOUNDATION DEPTH, WIDTH, REINFORCING STEEL, & ADDITIONAL EXPANSIVE SOIL REQUIREMENTS WITH VALID SOILS REPORT. IF ANY CONDITIONS ARE MORE RESTRICTIVE THAN THE STATED STRUCTURAL MINIMUM REQUIREMENTS, THEY SHALL SUPERSEDE SAID STRUCTURAL MINIMUM REQUIREMENTS.
- 4) PROVIDE 4X 24" LONG DOWELS @ 24" O.C. AND 12" FROM CORNERS AT ALL CONCRETE STOOPS AND PORCHES.
- 5) HDUS TO BE INSTALLED IN ACCORDANCE WITH I.C.C. ESR-2230
- 6) VERIFY LOCATION OF HOLD DOWNS AND ANCHOR BOLTS WITH ROUGH FRAMING TO ASSURE PROPER AND ACCURATE INSTALLATION.
- 7) ALL METAL ANCHOR, FASTENERS, AND CONNECTORS, ETC. SPECIFIED ON PLANS SHALL BE FROM THE SIMPSON STRONG-TIE COMPANY OR AN APPROVED EQUAL IN STRUCTURAL DESIGN AND LOAD VALUES.
- 8) VERIFY THE LOCATIONS OF FOUNDATION HARDWARE WITH THE FRAMING CONTRACTOR PRIOR TO PLACEMENT OF CONCRETE. DO NOT REDUCE SHEAR PANEL WIDTH WITHOUT WRITTEN CONSENT OF THE STRUCTURAL ENGINEER.
- 9) REFER TO ELEVATION PLANS APPENDAS FOR ANY VARIATIONS.
- 10) HOLD DOWN ANCHORS, E.G. SIMPSON HDUS, CBS, PPS, TO BE TIED IN PLACE PRIOR TO CALLING FOR INSPECTION.
- 11) FOUNDATION EXCAVATIONS SHALL BE INSPECTED PRIOR TO FORMING OR PLACEMENT OF REINFORCING STEEL BY THE SOILS ENGINEER.
- 12) SOIL BEARING PRESSURE: 1500 PSF PER NO SOIL REPORT PREPARED.
- 13) EXTERIOR FOOTING TO BE: 15" WIDE X24" DEEP FOOTING INTO NATURAL GRADE W/2-44 @ TOP AND 2-44 AT BOTTOM. (U.N.O.) CONTINUOUS FOOTING TO REST ON COMPACTED GRADE.
- INTERIOR FOOTING TO BE: 15" WIDE X24" DEEP FOOTING INTO NATURAL GRADE W/2-44 @ TOP AND 2-44 AT BOTTOM. (U.N.O.) CONTINUOUS FOOTING TO REST ON COMPACTED GRADE.
- 14) THICKEN STEM WALL TO RECEIVE MASONRY VENEER WHERE OCCURS.

REINFORCED CONCRETE

- 1) ALL WORK, TESTING AND INSPECTION SHALL CONFORM TO STRENGTH DESIGN USED FOR ALL CONCRETE GRADES, (SEE SCHED. FOR CONCRETE GRADES). MAXIMUM SIZE AGGREGATE SHOULD BE 1"-1/2" AGGREGATE MAY BE USED IN CONTINUOUS FOOTINGS OR ISOLATED PAD. PROVIDE MIX DESIGN FOR APPROVAL BEFORE POURING CONCRETE.
- 2) ALL CEMENT USED SHALL CONFORM TO A.S.T.M. C-150.
- 3) USE TYPE FIVE CEMENT FOR SOIL CONTAINING A SULFATE CONCENTRATION OF 0.2% OR MORE. FINE AND COARSE AGGREGATE SHALL CONFORM TO A.S.T.M. C-30 FOR NORMAL WIGHT CONCRETE AND A.S.T.M. C-330 FOR LIGHTWEIGHT CONCRETE.
- 5) READY-MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH A.S.T.M. C-64. REINFORCING BARS SHALL CONFORM TO A.S.T.M. A-615-60 AND APPLICABLE C.B.C. STANDARDS.
- 7) WATER SHALL BE CLEAN AND SUITABLE FOR DOMESTIC USE.
- 8) SILL FASTENING: -INTERIOR AND EXTERIOR BEARING WALLS: 5/8" DIAMETER ANCHOR BOLTS, 7" INTO CONCRETE PER I.A. B.C. 186-6 WITH A MINIMUM EDGE DISTANCE OF 4" FAST COLD JOINT AND 48" O.C. MAXIMUM, 12" FROM ENDS AND SPLICES U.N.O. ON PLANS OR ENGINEERING CALCULATIONS. -INTERIOR NON-BEARING WALLS: APPROVED SHOT PINS WITH CADMIUM WASHERS, 3-4" O.C. MAXIMUM, 4" FROM CORNERS AND SPLICES U.N.O. ON PLANS OR ENGINEERING CALCULATIONS.
- 9) TOP OF CONCRETE SLABS TO BE MINIMUM OF 6" (8" HA/VA) ABOVE FINISH GRADE.
- 10) PROVIDE 3/4" CHAMBERS AT ALL EXPOSED CORNERS.
- 11) FOUNDATION (WIDTHS & DEPTHS) AND REINFORCING AS SHOWN ON PLANS ARE SUPERCEDED BY LOCAL CODES OR ORDINANCES WHICH REQUIRE INCREASES OF THE SAME.
- 12) ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS, AND OTHER INSERTS SHALL BE SECURED INTO POSITION AND INSPECTED BY THE LOCAL BUILDING OFFICIAL PRIOR TO THE PLACING OF ANY CONCRETE.
- 13) PIPES MAY PASS THROUGH STRUCTURAL CONCRETE IN SLEEVES, BUT SHALL NOT BE EMBEDDED THEREIN. PIPES OR DUCTS EXCEEDING 1/3 THE SLAB OR WALL THICKNESS SHALL NOT BE PLACED IN THE STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED.
- 14) LOCATION OF CONSTRUCTION OR POUR JOINTS MUST BE APPROVED BY THE STRUCTURAL ENGINEER.
- 15) FOOTINGS SHALL BE EXAMINED AND CERTIFIED IN WRITING BY THE PROJECT SOIL GEOLOGY ENGINEER PRIOR TO INSPECTIONS AND PLACEMENT OF THE CONCRETE.
- 16) DO NOT PLACE CONCRETE UNTIL ALL REINFORCEMENT, CONDUIT OUTLET BOXES, ANCHORS, HANGERS, SLEEVES, BOLTS OR OTHER EMBEDDED MATERIALS AND ITEMS ARE SECURELY AND PROPERLY FASTENED IN THEIR PROPER PLACES AND POSITION. SUB CONTRACTOR SHALL VERIFY INSTALLATION OF HOLD DOWN AND ANCHOR BOLTS, PAHD STRAPS AND OTHER ANCHORAGE MATERIAL AND ITEMS PRIOR TO PLACEMENT OF CONCRETE.
- 17) THE FOLLOWING MINIMUM CLEAR DISTANCE BETWEEN REINFORCING STEEL AND FACE OF CONCRETE SHALL BE MAINTAINED UNLESS NOTED OTHERWISE ON PLANS:
- SLAB ON GRADE.....MID. HT. OF SLAB
- CONCRETE BELOW GRADE, FORMED.....2"
- CONCRETE BELOW GRADE, UNFORMED (POURED AGAINST EARTH).....3"
- CONCRETE EXPOSED TO WEATHER.....1-1/2"
- WALLS.....1"
- 18) ELECTRICAL GROUND: EXTEND (1)-REINFORCING BAR 18" ABOVE CONCRETE AT ELECTRICAL PANEL LOCATION.
- 19) CONCRETE CONTRACTOR SHALL PERFORM ALL DRY-PACKING OPERATIONS NEEDED BY THE FRAMING CONTRACTOR IN BRINGING HIS TOP PLATE LINES TO A LEVEL CONDITION.
- 20) CONCRETE CONTRACTOR SHALL PROMPTLY REMOVE ANY ANCHOR BOLTS OR OTHER STEEL IN ADVERTANTLY MISPLACED IN OR AT OPENINGS AND SHALL PATCH ANY SURFACE DAMAGE CAUSED BY THE REMOVAL THEREOF.
- 21) REFER TO CIVIL ENGINEERS PRECISE GRADING PLANS FOR LOCATION OF DEEPENED FOOTINGS.
- 22) SLABS SHALL BE TROWLED SMOOTH AND LEVEL AROUND ALL PLUMBING PIPES, ELECTRICAL CONDUIT, AND MISCELLANEOUS IRON STRAPS PROTRUDING THEREFROM. SLABS SHALL BE SPRAYED WITH HUNT'S PROCESS CURING COMPOUND IMMEDIATELY AFTER FINISH TROWELING.
- 23) AFTER COMPLETION OF POURING EACH SLAB, CONCRETE CONTRACTOR SHALL REMOVE ALL FORM LUMBER, MISCELLANEOUS LUMBER AND CEMENT DEBRIS, LEAVING JO SITE CLEAN AND GRADED SMOOTH FOR OTHER WORKMEN.
- 24) CONCRETE CONTRACTOR TO FURNISH ALL CONCRETE, ROCK, SAND, MESH, MEMBRANE, ANCHOR BOLTS W/ NUTS AND WASHERS, ANCHOR STRAPS, FORM MATERIALS, HUNT'S PROCESS COMPOUND AND REINFORCING STEEL. ALL SPECIAL STEEL SHALL BE FABRICATED BY SUB-CONTRACTOR AND SUPPLIED BY THE CONTRACTOR. ALL FORM LUMBER SHALL BE STRAIGHT, ALL SCREDS SHALL BE STRAIGHT, ALL POINTS ON THE BUILDING SLABS SHALL BE WITHIN +/- 1/8" OF ESTABLISHED GRADE ELEVATION WITHIN ANY 12' RADII.
- 25) HEIGHT AND WIDTH OF ALL FOOTING TRENCHES SHALL BE AS PER PLAN; TRENCHES FOR FOOTINGS SHALL BE CLEANED BEFORE CONCRETE IS POURED. AN IMAGINARY LINE FROM THE BOTTOM CORNER OF ANY FOOTING, EXTENDING DOWNWARD AT 45 DEGREES FROM THE HORIZONTAL SHALL NOT INTERSECT ANY EXCAVATION FOR GAS, SEWER OR DRAINAGE PURPOSES.
- 26) POST TENSION SLABS, IF APPLICABLE, POST TENSION LOADS FROM STRUCTURE ABOVE SHALL BE SUPPLIED TO THE POST-TENSION ENGINEER PRIOR TO POST-TENSION DESIGN. ANCHOR BOLTS AND OTHER HARDWARE TO BE SHOWN ON POST-TENSION PLANS TO AVOID MIS-LOCATION OF HARDWARE, AND POSSIBLE FIELD FIXES MAY CUT DOWN TENDONS.
- 27) CONCRETE SLAB ON GRADE: a. SURGRADE: THE SURGRADE SHALL BE PREPARED AND COMPACTED IN ACCORDANCE TO SOILS REPORT SPECIFICATION. b. SUBBASE: THE SUBBASE SHALL CONSIST OF 2 INCH SAND ON THE SURGRADE, 6 MIL VISQUEEN VAPOR BARRIER, AND ADDITIONAL 2 INCH SAND OVER THE VAPOR BARRIER. THE SUBBASE SHALL BE ROLLED TO ACHIEVE COMPACTION AND LEVELING. c. CONCRETE: THE CONCRETE MEETING THE "CONCRETE SCHEDULE" SPECIFICATION OF THE ULTIMATE STRENGTH AND SLUMP SHALL BE PLACED, SCREEDD (STRIKE OFF), BULLFLOATED, EDGED, FLOATED, AND TROWLED. THE FINISH SURFACE PATTERN AND TEXTURE SHALL MEET THE ARCHITECTURAL AND/OR OWNERS SPECIFICATION. d. CONTRACTION JOINTS: SAW CUTTING FOR CONTRACTION JOINT SHALL BE PERFORMED AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT AGGREGATES FROM BEING DISLOADED BY THE SAW. THE DEPTH AND LOCATIONS OF SAW CUTTING SHALL BE IN ACCORDANCE TO THE DETAILS AND PLANS. e. CURING: WASHED BURLAP OR COTTON MATS SATURATED WITH WATER SHALL BE PLACED AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT SURFACE DAMAGE OVER THE ENTIRE SURFACE INCLUDING THE EDGES OF SLABS. THE CURING SHALL BE A MINIMUM OF 7 DAYS UNLESS OTHERWISE SPECIFIED AND THE COVERING SHALL BE KEPT SATURATED DURING THE CURING PERIOD.

CONCRETE SCHEDULE					
LOCATION	COMPRESSIVE STRENGTH @ 28 DAYS	CEMENT TYP.	MAX. SLUMP	W/C RATIO	CONTINUOUS INSPECTION
FT'G.	f'c = 2,500 psi	Ⅲ	4"	.45	NO

LAP SPLICE SCHEDULE					
REBAR f'c = 2,500	f'c = 3,000	f'c = 4,000	f'c = 5,000		
#4	25"	23"	20"	18"	
#5	31"	28"	25"	22"	
#6	37"	34"	30"	26"	
#7	43"	40"	36"	30"	
#8	56"	56"	49"	43"	
#9		63"	55"	49"	
#10		71"	62"	55"	
#11		79"	69"	61"	

REINFORCING STEEL

- 1) ALL REINFORCING STEEL SHALL CONFORM TO A.S.T.M. A-615-60, EXCEPT A-615-40 @ TIES.
- 2) WELDED WIRE FABRIC TO CONFORM TO A.S.T.M. A-185, LAP 10" IE 1-1/2 SPACES.
- 3) REINFORCING DETAILING, BENDING, AND PLACING SHALL CONFORM TO A.C.I. 315.
- 4) WELDING OF REINFORCING STEEL SHALL CONFORM TO CURRENT A.W.S. STANDARDS, USING PROPER LOW HYDROGEN WELDING RODS.
- 5) THE FOLLOWING MINIMUM CLEAR DISTANCES BETWEEN REINFORCING STEEL AND FACE OF CONCRETE SHALL BE MAINTAINED UNLESS NOTED OTHERWISE ON PLANS:
- SLAB ON GRADE.....CENTER OF SLAB
- CONCRETE BELOW GRADE, FORMED.....2"
- CONCRETE BELOW GRADE, UNFORMED (POURED AGAINST EARTH).....3"
- WALLS.....1-1/2"
- COLUMNS AND BEAMS TO MAIN BARS.....2"
- 6) ALL BARS IN CONCRETE SHALL BE LAPPED PER SCHEDULE (2'-0" MINIMUM) AT ALL SPLICES, U.N.O.
- 7) ALL BARS IN MASONRY SHALL BE LAPPED A MINIMUM OF 48 BAR DIAMETER (2'-0" MINIMUM) AT ALL SPLICES, U.N.O.
- 8) SPLICES OF HORIZONTAL REBAR IN WALLS AND FOOTINGS SHALL BE STAGGERED 4'-0" MINIMUM.
- 9) PROVIDE DOWELS IN FOOTINGS AND/OR GRADE BEAMS THE SAME SIZE AND NUMBER AS VERTICAL WALL OR COLUMN REINFORCING. DOWELS SHALL HAVE A MINIMUM PROTECTION EQUAL TO STANDARD LAP SPLICES, U.N.O.
- 10) 15 OR LARGER BARS SHALL NOT BE RE-BENT WITHOUT APPROVAL OF ENGINEER.
- 11) ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS, AND INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO INSPECTION AND PLACING OF CONCRETE OR GROUTING MASONRY.
- 12) VERTICAL BARS IN WALLS SHALL BE ACCURATELY POSITIONED AT THE CENTER OF THE WALL, U.N.O., AND TIED INTO POSITION AT THE TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 192 BAR DIAMETER.

- a) Floor live load= 40 psf. Floor dead load=14 psf
- b) Roof live load= 20 psf. Roof dead load=16.6 psf
- b) WIND DESIGN DATA:

Basic wind speed: 110 mph. Importance factor I=1 For all category

Wind exposure:

Internal pressure coefficient= 0.18 or -0.18

Component and cladding pressure = 16 psf

d) EARTHQUAKE DESIGN DATA:

·Ss =1.737

·S1 =.644

·Site class: D -DEFAULT SEE SECTION 11.4.3

·Seismic design category: D

·SMS =2.084

·SM1 =1.095

·SDs =1.390

·SD1 =0.730

·REDUNDANCY FACTOR=1.3

Basic Seismic Force Resisting System

Per ASCE 7-16 ,Table:12.2-1

- 1)Section: A: Bearing Wall System
- R =6.5 ·Cs =0.2138

- SEISMIC IMPORTANCE FACTOR: I=1
- RISK CATEGORY : II

Soil bearing pressure= 1500 psf

TABLE 2304.10.2 NAILING SCHEDULE

- CONNECTION
- 1) JOIST TO SILL OR GIRDER, TOENAIL.....3-8d
- 2) BRIDGING TO JOIST, TOENAIL EACH END.....2-8d
- 3) 4" X 6" SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL.....3-8d
- 4) WIDER THAN 1" X 6" SUBFLOOR TO EACH JOIST, FACE NAIL.....3-8d
- 5) 2" SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL.....2-16d
- 6) 1" BRACE TO EACH STUD AND PLATE, FACE NAIL.....2-16d
- 7) SOLE PLATE TO JOIST OR BLOCKING, AT BRACED WALL PANELS.....3-16d PER 16"
- 8) STUD TO SOLE PLATE.....4-8d TOENAIL, OR 2-16d END NAIL
- 9) DOUBLE STUDS, FACE NAIL.....16d @ 24" O.C.
- 10) DOUBLE TOP PLATES, TYPICAL FACE NAIL.....16d @ 16" O.C.
- 11) DOUBLE TOP PLATES, LAP SPLICE.....8-16d
- 12) RIM JOIST TO TOP PLATE, TOENAIL.....8d @ 6" O.C.
- 13) TOP PLATES, LAP & INTERSECTION, FACE NAIL.....16d @ 16" O.C.
- 14) CONTINUOUS HEADER, TWO PIECES.....2-16d
- 15) CEILING JOISTS TO PLATE, TOENAIL.....3-8d
- 16) CONTINUOUS HEADER TO STUD, TOENAIL.....4-8d
- 17) CEILING JOISTS, LAP OVER PARTITIONS, FACE NAIL.....3-16d
- 18) CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL.....3-16d
- 19) RAFTER TO PLATE, TOENAIL.....3-8d
- 20) 1" BRACE TO EACH STUD AND PLATE, FACE NAIL.....2-8d
- 21) 1" X 6" SHEATHING OR LESS TO EACH BEARING, FACE NAIL.....2-8d
- 22) BEARING THICKER THAN TO EACH BEARING, FACE NAIL.....16d @ 24" O.C.
- 23) BUILT-UP CORNER STUDS.....2-16d @ 24" O.C.
- 24) BUILT-UP GIRDER AND BEAMS.....20d @ 32" @ TOP & BOTTOM & STAGG.
- 25) 2" PLANKS.....2-16d @ EACH BEARING
- 26) WOOD STRUCTURAL PANEL AND PARTICLEBOARD: SUBFLOOR AND UNDERLAYER (TO FRAMING) (1") 1/2" AND LESS......6d
- 19/32" - 3/4"......8d OR 6d
- 7/8" - 1"......8d
- 1-1/8" - 1-1/4"......10d OR 8d
- COMBINATION SUBFLOOR-UNDERLAYMENT (TO FRAMING): 3/4" OR LESS......6d
- 7/8" OR 1"......8d
- 1-1/8" - 1-1/4"......10d OR 8d
- 27) PANEL SIDING (TO FRAMING):<sup>2</sup> 1/2" OR LESS......6d
- 5/8"......8d
- 28) FIBERBOARD SHEATHING:<sup>7</sup> 1/2"......NO. 11ga.
- 25/32"......NO. 11ga.
- 29) INTERIOR PANELING 1/4"......4d
- 3/8"......6d

FOOTNOTES:

- 1) COMMON OR BOX NAILS MAY BE USED EXCEPT WHERE OTHERWISE STATED.
- 2) NAILS SPACED AT 6" O.C. AT EDGES, 12" AT INTERMEDIATE SUPPORTS EXCEPT 4" AT ALL SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTIONS 2315.3.3 AND 2315.4. NAILS FOR WALL SHEATHING MAY BE COMMON, BOX OR CASING.
- 3) COMMON OR DEFORMED SHANK.
- 4) COMMON.
- 5) DEFORMED SHANK.
- 6) CORROSION-RESISTANT SIDING OR CASING NAILS CONFORMING TO THE REQUIREMENTS OF SECTION 2304.3.
- 7) FASTENERS SPACED 3" O.C. @ EXTERIOR EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS.
- 8) CORROSION-RESISTANT ROOFING NAILS WITH 7/16" DIAMETER HEAD AND 1-1/2" LENGTH FOR 1/2" SHEATHING AND 1-3/4" LENGTH FOR 25/32" SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2304.3.
- 9) CORROSION-RESISTANT STAPLES WITH NOMINAL 7/16" CROWN AND 1-1/8" LENGTH FOR 1/2" SHEATHING AND 1-1/2" LENGTH FOR 25/32" SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2304.3.
- 10) PANEL SUPPORTS: 16 16d 120° P STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED). CASING OR FINISH NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS.
- 11) PANEL SUPPORTS AT 24" O.C. CASING OR FINISH NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS.

CONSULTANT:

ENGINEERING

MESA Entreprise ,Inc

Structural/Consulting.

1304 Corte Madera.

Costa Mesa, Ca 92626.

TEL:562-235-4572.

FAX:562-490-8362.

REVISIONS:

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PROJECT:

113 SHARON DR.

POMONA, CA 91767

DRAWN BY:

SCALE: NOTED

CAD FILE:

PROJECT NO.:

DATE: 01-29-2024

042681

Expt: 03/31/2024

Civil Engineer

STATE OF CALIFORNIA

01-29-2024

SN1



NOTES

ROOF DIAPHRAGM:  
USE 1/2" CDX PLYWOOD, PANEL INDEX (2/4/0), WITH 10d NAIL AT 6" O.C. SUPPORTED EDGES, BOUNDARIES & @ 12" O.C. FIELD (BLOCKED DIAPH. U.O.N.).

FLOOR AND DECK DIAPHRAGM:  
USE 3/4" CC-CD PLYWOOD, PANEL INDEX (32/16), WITH 10d NAIL AT 4" O.C. SUPPORTED EDGES, BOUNDARIES & @ 10" O.C. FIELD (BLOCKED DIAPH. U.O.N.). MADE WITH EXTERIOR GLUE.

REGISTERED INSPECTION IS REQUIRED FOR, WELDING AND EPOXY APPLICATION.

THE REINFORCING WIRE MESH, DEFORMED REINFORCING STEEL BARS AND STRUCTURAL STEEL SHAPES DELIVERED TO THE JOBSITE FOR USE ON THE CONSTRUCTION OF THE STRUCTURE MUST BE ACCOMPANIED WITH MILL CERTIFICATES, PREPARED BY AN APPROVED TESTING AGENCY WHICH DOCUMENT THE MATERIAL STRENGTHS AND CHEMICAL COMPOSITION SPECIFIED FOR THE PROJECT.

DOUGLAS FIR LARCH: (PER 2022 C.B.C.)  
NO.1 F<sub>b</sub> = 1000 PSI. F<sub>v</sub> = 95 PSI.

MAX 19% OF MOISTURE CONTENT AT TIME OF INSALLATION.

FIELD WELDING TO BE DONE BY WELDERS MUST BE CERTIFIED BY THE CITY BUILDING DEPARTMENT FOR ( STRUCTURAL STEEL) (LIGHT GAGE STEEL). CONTINUOUS INSPECTION BY A DEPUTY INSPECTOR IS REQUIRED.

PROVIDE FIRE BLOCKING IN CONCEALED SPACES IN STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AT THE CELLING AND FLOOR LEVEL AND AT 10 FT. INTERVALS BOTH VERTICAL AND HORIZONTAL (B.C. 708.2.1)

FINISHED RIDGE HEIGHT SHALL NOT EXCEED THE ELEVATION SHOWN ON THE PLOT PLAN. ALLOW FOR THICKNESS OF ROOFING PER DETAIL PROVIDED.

ADDITIONAL NOTES:

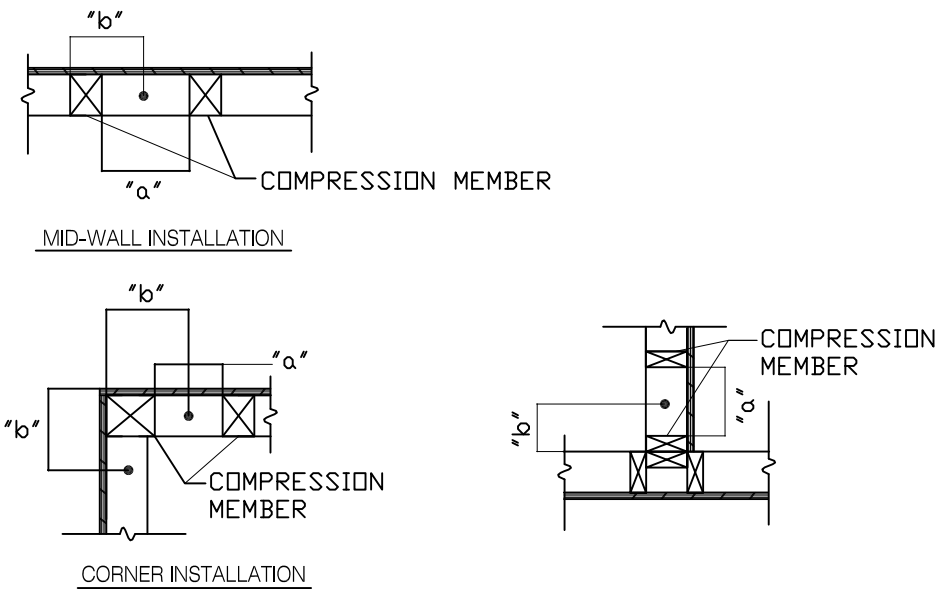
- 1) GENERAL CONTRACTOR IS FULLY RESPONSIBLE TO VERIFY ALL DIMENSIONS, ELEVATIONS & CONDITION BEFORE START OF ANY WORK. ANY DISCREPANCY SHALL BE BROUGHT TO ATTENTION OF THE ENGINEER AT DALTA IMMEDIATELY.
- 2) SEE SHEAR WALL SCHEDULE FOR ALL ANCHOR BOLT SIZE AND SPACING.
- 3) ALL HOLDOWN HARDWARE IS TO BE SECURED IN PLACE PRIOR TO
- 4) THICKEN FOOTING TO RECEIVE VENEER AS NEEDED. FOUNDATION INSPECTION.

HEADER SCHEDULE				TYPICAL CEILING JOIST SCHEDULE (U.N.O.)	
WIDTH OF OPENING	STUD WIDTH SIZE			CEILING JOIST	MAX. SPAN
	2X4	2X6	2X8		
3'-0" MAX.	2-2X4 OR 4X4	3-2X4 OR 6X4	4-2X4 OR 8X4	2X6 @ 16" O.C.	12'-0"
5'-0" MAX.	2-2X6 OR 4X6	3-2X6 OR 6X6	4-2X6 OR 8X6	2X8 @ 16" O.C.	16'-0"
8'-0" MAX.	2-2X8 OR 4X8	3-2X8 OR 6X8	4-2X8 OR 8X8	2X10 @ 16" O.C.	20'-0"
OVER 8'-0"	SEE PLAN				

NOTE:  
AT EXTERIOR AND INTERIOR WALLS, A 4X12 MIN. HEADER MAY BE USED IN LIEU OF THE HEADER NOTED IN THE TABLE. HEADER NOTED IN TABLE SHALL BE PROVIDED OVER ALL WINDOWS, DOORS, AND OTHER OPENING, UNLESS NOTED OTHERWISE.

A.B. WASHER PLATE SCHED.	
BOLT SIZE	WASHER
5/8" Ø	3"X3"X1/4"
3/4" Ø	3"X3"X5/16"
7/8" Ø	3"X3"X5/16"
1" Ø	3.5"X3.5"X3/8"
1 1/4" Ø	4"X4"X3/4"

ANCHOR BOLT LAYOUT



FRAMING NOTES

1. TOP PLATE SPLICE -LAP PLATE 48" MIN. WITH (12) 16d NAILS (U.O.N.).
2. ALL STRUCTURAL HARDWARE TO BE "SIMPSON STRONG TIE" SILVER METAL W/ LATEST ACCEPTED I.C.C. AND R.R. LA. APPROVALS (U.O.N.).
3. PROVIDE STEEL PLATE TIES(16 GA. MIN. 1-1/2" X 24) OR SIMPSON ST22 ACROSS TOP &/ OR BOTTOM PLATE WHERE INTERRUPTED OR CUT BY FRAMING MEMBER.
4. PROVIDE SAME SIZE POST UNDER ALL POSTS FROM ABOVE (P.A.).
5. ALL NAILING SHALL BE PER 2022 C.B.C SEE NAILING SCHEDULE SHEET SN1 (GENERAL NOTES)
6. ALL CONSTRUCTION SHALL CONFORM TO 2022 C.B.C.
7. REFER TO SHEAR WALL SCHEDULE FOR SILL PLATE NAILING AT SHEAR PANELS. (DETAILED)
8. 4 X BEAMS BEARING ON TOP PLATE TO HAVE DOUBLE STUDS OR POST UNDER TOP PLATE -PER PLAN. CONNECT BEAM TO PLATE W/A35 EA. SIDE (U.O.N.).
9. ALL DBL. FLOOR JOISTS SHALL BE FACE NAILED W/16d @12" O.C. STAGGERED 2" FROM EACH EDGE (U.O.N.).
10. ALL HEADERS NOT SPECIFICALLY NOTED SHALL BE 4 X MIN. WITH THE DEPTH IN INCHES EQUAL TO THE SPAN IN FEET.( 4 X 4 MIN.).
11. ALL FRAMING MEMBERS TO BE D.F.#2 (U.O.N.) ALL POST TO BE D.F.#1.
12. PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS.
13. ALL 4 X 8 AND LARGER HEADERS SHALL HAVE DOUBLE TRIMMERS EA. SIDE OF HEADERS (U.O.N.)
14. ALL DOUBLE / TRIPLE FLOOR JOISTS BEARING ON TOP PLATE TO HAVE DOUBLE / TRIPLE STUDS DIRECTLY UNDER.
15. WOOD BEAMS 4" & WIDER SHALL BE D.F.#1 OR BETTER.
16. BEAM BEARING ON POST TO HAVE "BC", "PC", "CC" POST CONNECTORS, BEAM TO POST (U.O.N.) OR DETAILED OTHERWISE ON PLAN.
17. PROVIDE 1 X 6 TIE JUST ABOVE CEILING JOIST WHERE CEILING JOISTS ARE NOT PARALLEL, LAP WITH RAFTERS AND SPIKE WITH 3-16d.
18. ALL BEAMS SHOWN ON PLANS SHOULD BE PLACED AT CENTER OF ALL POINT LOADS FROM ABOVE AT BEARING WALL OR / SHEAR WALL.
19. REFER TO ARCHITECTURAL PLANS FOR ANY DIMENSIONS, DO NOT SCALE STRUCTURAL PLANS .
20. FABRICATION OF STRUCTURAL STEEL SHALL BE BY AN APPROVED FABICATOR OR FABRICATION SHALL BE CONTINUOUSLY INSPECTED BY REGISTER INSPECTOR.
21. NAILING TO BE PER TABLE 2304.10.2.
22. FASTENERS IN PRESSURE-TREATED AND FIRE-RETARDANT TREATED WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER in accordance with ASTM A 153. Per CRC R317.3.
23. ALL EXISTING STRUCTURAL ELEMENTS SHALL BE FIELD VERIFIED.
24. PROVIDE 2X FULL DEPTH BLOKING BRIDGES @ ROOF RAFTER CEILING JOIST FLOOR JOIST AND BEAMS EVERY 8'-0" O.C.
25. THE QUALITY MARK SHALL BE ONE OF THE STAMP OR LABEL AFFIXED TO PRESERVATIVE-TRETED WOOD AND SHALL INCLUDE THE FOLLOWING INFORMATION:IDENTIFICATION OF TREATING MANUFACTURER, TYPE OF PRESERVATIVE USED, MINIMUM PRESERVATIVE RETENTION(ppi) END USE FOR WHICH THE PRODUCT IS TREATED,AWPA STANDARD TO WHICH THE PRODUCT WAS TREATED AND IDENTITY OF THE ACCREDITED INSPECTION AGENCY.(CBC.2308.1.8.1).
26. MOISTURE CONTENT OF PRESERVATIVE-TREATED WOOD SHALL BE 19 PER CENT OR LESS BEFORE BEING COVERED WITH INSULATION INTERIOR WALL FINISH, AND FLOOR COVERING OF OTHER MATERIALS WHEN USED IN ENCLOSED LOCATIONS.
27. NAILS SHALL BE DRIVEN FLUSH TO SHEATHING AND NOT OVERDRIVEN.
28. COATING WEIGHTS FOR ZINC-COATED FASTENERS SHALL BE IN ACCORDANCE WITH ASTM A 153.FASTENINGS FOR WOOD FOUNDATIONS SHOULD BE AS REQUIRED IN AF&PA TECHNICAL REPORT NO.7.
29. ALL NEW WOOD OR TIMBER BELOW THE BFE SHALL BE PRESSURE TREATDE,REDWOOD OR NATURALLY DECAY RESISTANT WOOD.
30. A FINAL FLOOD ELEVATION CERTIFICATE EXECUTED BY A LICENCED SURVEY OR CIVIL ENGINEER MUST BE FURNISHED TO THE CITY INSPECTOR PRIOR TO THE APPROVAL OF THE LOWEST FLOOR FRAMING.
31. ROOF FRAMING NAILING TO BE INSPECTED BEFORE COVERING.FACE GRAIN OF PLYWOOD SHALL BE PERPENDICULAR TO SUPPORTS. FLOOR SHALL HAVE TONGUE AND GROOVE OR BLOCKED PANEL EDGES.TABLE SPAN SHALL CONFORM WITH TABLE 2305.5 OF THE ORANGE COUNTY BUILDING CODE.
32. ALL DIAPHRAGM AND SHEAR WALL NAILING SHALL UTILIZE COMMON NAILS OR GALVANIZED BOX.
33. ALL EXTERIOR WALL TO BE SECURED WITH 5/8" DIAM. x 16" A.B.'s

NOTES:

1. COMPRESSION MEMBERS DO NOT INCLUDE TRIMMERS.
2. SEE TDS ELEVATIONS FOR "a" DIMENSION

FOUNDATION NOTES

1. EXTERIOR FOOTING TO BE :  
15" WIDE X34" DEEP FOOTING INTO NATURAL GRADE - W/2-4# @ TOP AND 2-4# AT BOTTOM.(U.O.N.). CONTINUOUS FOOTING TO REST ON COMPACTED GRADE.  
INTERIOR FOOTING TO BE :  
15" WIDE X34" DEEP FOOTING INTO NATURAL GRADE - W/2-4# @ TOP AND 2-4# AT BOTTOM.(U.O.N.). CONTINUOUS FOOTING TO REST ON COMPACTED GRADE.
2. SOIL BEARING PRESSURE: 1500 PSF NO SOIL REPORT PREPARED.
3. TYP. ANCHOR BOLTS: 5/8" DIAM. X 14" LONG A.B. W/3" X 3" X 1/4" PLATE WASHER @48" O.C.(U.O.N) @ SHEAR WALL EMBED 7" INTO FIRST POUR. REFER TO FOUNDATION PLAN AND SHEAR WALL SCHED. FOR SPACING AT SHEAR WALL. MIN END DISTANCE:5" MAX END DISTANCE:12"
4. CONCRETE SHALL ATTAIN A DESIGN BEARING CAPACITY OF 2500 PSI AND FOR GRADE BM. OR CONCRETE COL. SHALL BE 3000 PSI.
5. HOLDOWNS SHALL BE RETIGHTENED JUST PRIOR TO COVERING THE WALL. FRAMING. HOLDOWNS SHALL BE TIED IN PLACE PRIOR TO CALLING FOUNDATION INSPECTION.
6. THE FLOOR SLAB AND FOUNDATION MAY BE POURED HOMOGENEOUSLY AT THE SAME TIME OR IN TWO POURS WITH A COLD JOINT BETWEEN. DESIGN IS BASED ON A HOMOGENEOUS POUR, ALL ANCHOR BOLTS SHALL BE LONGER ENOUGH TO ACHIEVE 7" MIN EMBED. IN FIRST POUR.
7. WHEN FOUNDATION WALLS EXCEED 4'-0" IN HEIGHT/DEPTH , FOR ANY REASON, PROVIDE STEM WALL REINFORCING MINIMUM #4 @ 24" O.C. BOTH WAYS, OR AS PER ENGINEER OF RECORD.
8. PRE-SATURATION MEMO FROM SOILS ENGINEER REQUIRED PRIOR TO PRE-SLAB INSPECTION. IF REQUIRED OR APPLICABLE.
9. HOLD-DOWN CONNECTOR BOLTS SHALL NOT BE MORE THAN 1/16" OVERSIZED AT THE CONNECTOR OF THE HOLD-DOWN POST.
10. SPECIAL INSPECTION BY A REGISTERED DEPUTY INSPECTOR IS REQUIRED FOR:  
\*FIELD WELDING.  
\*CONCRETE STRENGTH > 2500 PSI.  
\*HIGH STRENGTH BOLTING.  
\*SHEAR WALLS AND HARDY FRAME
11. HOLD-DOWN CONNECTOR BOLTS SHALL NOT BE MORE THAN 1/16" OVERSIZED AT THE CONNECTOR OF THE HOLD-DOWN POST.
12. HOLD- DOWN CONNECTORS BOLT INTO WOOD FRAMING REQUIRE APPROVED PLATE WASHERS AND HOLD- DOWN SHALL BE FINGER TIGHT AND 1/2" WRENCHTURN JUST PRIOR TO COVERING WALL FRAMING. CONNECTOR BOLTS IN WOOD FRAMING. CONNECTOR BOLTSINTO WOODFRAMING REQUIRE STEEL PLATE WASHERS IN ACCORDANCE WITH TABLE 2305.5 OF THE COUNTY OF ORANGE BUILDING CODE.
13. CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A WIND OR SEISMIC FORCE.RESISTING SYSTEM/COMPONENT LISTED IN THE "STATEMENT OF SPECIAL INSPECTION" SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSABILITY TO THE BUILDING INSPECTORS AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON SUCH SYSTEM OR COMPONENT PER SECTION:1706.1
14. ALL REBAR, ANCHOR BOLTS AND HOLDOWNS ARE TO BE IN PLACE PRIOR TO FOUNDATION INSPECTION.
15. PROVIDE MINIMUM TWO ANCHOR BOLTS PER SHEARWALL SEGMENT.
16. ANCHOR BOLTS AT SILL PLATES TO BE AT 48" O.C. MIN. AND 4 3/8" MIN. AND 12" MAX. FROM ENDS.
17. SEE FRAMING PLAN FOR SHEARWALL FRAME LOCATIONS.
18. ALL BOTTOM PLATES @ FOOTINGS TO HAVE 5/8"Ø ANCHOR BOLTS WITH 3"x3"x1/2" WASHERS AT 48" O/C U.N.O.
19. ALL FOUNDATION EXCAVATIONS TO BEAR ON LIKE MATERIAL.
20. FOUNDATION CONCRETE SHALL BE 2500-PSI IN 28 DAY MIX.
21. ALL WALLS ARE TO BE FRAMED WITH A MINIMUM OF 6" STUDS.
22. DOUBLE WALL USED AS PLUMBING WALLS ARE TO BE MINIMUM OF 8" WIDE AND NO FLAT STUDS PERMITTED STAGGERD STUDS ARE ACCEPTABLE.

ADDITIONAL NOTES

- a. CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A WIND OR SEISMIC FORCE. RESISTING SYSTEM/COMPONENT LISTED IN THE "STATEMENT OF SPECIAL INSPECTION" SHAL SUBMIT A WRITTEN STATEMENT OF RESPONSABILITY TO THE BUILDING INSPECTORS AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON SUCH SYSTEM OR COMPONENT PER SECTION:1704.4
- b. REGISTERED INSPECTION IS REQUIRED FOR:  
- CONCRETE MORE THAN 2500 PSI.  
- REINFORCING STEEL.  
- WELDING.  
- H.S.BOLTS.  
-EPOXY ANCHORS /DOWELS..  
-STRUCTURAL STEEL.
- c. FOUNDATION SILLS SHALL BE NATURALLY DURABLE OR PRESERVATIVE-TREATED WOOD
- d. ALL WELDING SHALL BE PERFORMED BY WELDER CERTIFIED BY THE CITY. USING THE ELECTRICAL SHIELDED ARC PROCESS AT LICENSED SHOPS, OR OTHERWISE APPROVED BY THE LOCAL BUILDING DEPARTMENT.
- e. SHOP WELDS MUST BE PERFERMED IN A FABRICATOR'S SHOP LICENSED BY AN APPROVED AGENCY.
- f. PROVIDE LEAD HOLE 40%-70% OF THREATED SHANK DIAMETER AND FULL DIAMETER AND FULL DIAMETER FOR SMOOTH SHANK PORTION
- g. TRUSSES ,STRUCTURAL STEEL, GLULAM BEAMS,ENGINEERED JOIST SHALL BE MADE BY A FABRICATOR LICENSED BY AN APPROVED AGENCY.
- h. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR WOOD SHEAR WALLS,SHEAR PANELS,AND DIAPHRAGMS,INCLUDING NAILING,BOLTING ,ANCHORING, AND OTHER FASTENING TO COMPONENTS OF THE SEISMIC FORCE RESISTING SYSTEM. SPECIAL INSPECTION BY A DEPUTY INSPECTOR IS REQUIRED WHERE THE FASTENER SPACING OF THE AHEATHING IS 4 INCHES OR LESS.
- i. ALL DIAPHRAGM AMD SHEAR WALL NAILING SHALL UTILIZE COMMON NAILS WITH FULL HEADS(CBC 2303 NDS-05)
- j. MECHANICALLY DRIVEN NAILS USED IN WOOD STRUCTURAL PANEL SHEAR WALL SHALL MEET THE SAME DIMENSIONS AS THAT REQUIRED FOR HAND DRIVEN NAILS ,INCLUDING DIAMETER MIN LENGHT AND MIN HEAD DIAMETER ,CLIPPED HEAD OR BOX NAILS ARE NOT ACCEPTABLE (IARUCP23-03)
- k. ENGINEERED WOOD PRODUCTS SUCH AS PREFABRICATED WOOD I JOIST ,STRUCTURAL GLUED-LAMINATED TIMBER, STRUCTURAL COMPOSITE LUMBER AND DESGN TRUSSES SHALL NOT BE NOTCHED OR DRILLED EXCEPT WHERE PERMITTED BY THE MANUFACTURS RECOMMENDATIONS OR WHERE THE EFFECTS OF SUCH ALTERATIONS ARE SPECIFICALLY CONSIDERED IN THE DESIGN OF THE MEMBER BY A REGISTERED DESIGN PROFESSIONAL IN REPOSIBLSE CHARGES(CBC 23084.3)
- l. SHEATHING NAILS OR OTHER APPROVED SHEATHING CONNECTORS SHALL BE DRIVE SO THAT THEIR HEAD OR CROWN IS FLUSH WITHH THE SURFACE OF THE SHEATHING (CBC 2304.9.2)
- m. THE HOLE IN THE PLATE WASHER IS PERMITTED TO BE DIAGONALLY SLOTTED WITH OF UP 3/16" LARGER THAN THE BOLT DIAMETER AND SLOT LENGHT NOT TO EXCEED 1-3/4 " , PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT(CBC2305.3.11)

o HOLD-DOWN CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE APPROVED PLATE WASHERS ; AND HOLD-DOWNS SHALL BE FINGER TIGHT AND 1/2" WRENCH TURN JUST PRIOR TO COVERING THE WALL FRAMING CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE STEEL PLATE WASHERS IN ACCORDANCE WITH TABLE 2305.5 OF THE LA BUILDING CODE.

o ROOF FRAMING NAILING TO BE INSPECTED BEFORE COVERING.FACE GRAIN OF PLYWOOD SHALL BE PERPENDICULAR TO SUPPORTS. FLOOR SHALL HAVE TONGUE AND GROOVE OR BLOCKED PANEL EDGES.TABLE SPAN SHALL CONFORM WITH TABLE TABLE 2304.8(1) OF THE LA BUILDING CODE.

o ALL DIAPHRAGM AND SHEAR WALL NAILING SHALL UTILIZE COMMON NAILS OR GALVANIZED BOX.

o ALL BOLT HOLES SHALL BE DRILLED 1/32" TO 1/16" OVERSIZED

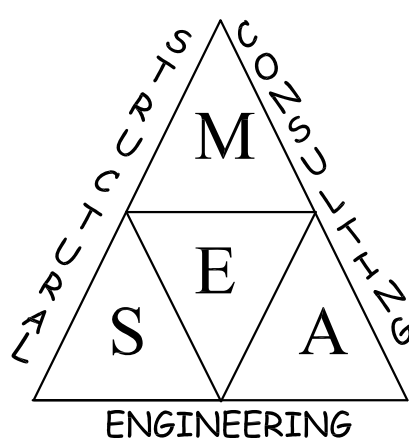
o HOLD-DOWN HARDWARE MUST BE SECURED IN PLACE PRIOR TO FOUNDATION INSPECTION.



SPECIAL INSPECTION PROGRAM And Designation Of SPECIAL INSPECTORS	
SPECIAL INSPECTIONS (Only checked items are required)	
ITEMS	SPECIAL INSPECTIONS
<input checked="" type="checkbox"/> Bolts installed in concrete	Periodic
<input checked="" type="checkbox"/> Epoxy application	Continuous
<input checked="" type="checkbox"/> shear walls nailing	Periodic
<input checked="" type="checkbox"/> Floor& Roof Diaphragm	Periodic
<input checked="" type="checkbox"/> Drag Struts	Periodic
<input checked="" type="checkbox"/> Grade Beam	Periodic
<input checked="" type="checkbox"/> Hardy Frame	Periodic
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DECLARATION BY OWNER OR ARCHITECT/ENGINEER OF RECORD  
I, the ☐ Owner ☐ Engineer or ☐ Architect of record, declare that the above listed Special Inspector(s) is/are hired by me.

Signature \_\_\_\_\_ Date \_\_\_\_\_



CONSULTANT:  
**MESA Enterprise ,Inc**  
Structural/Consulting.  
1304 Corte Madera.  
Costa Mesa Ca 92626.  
TEL:562-235-4572 -  
FAX:562-490-8362.

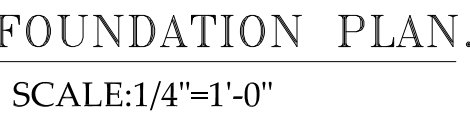
REVISIONS:
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PROJECT:  
**113 SHARON DR.  
POMONA, CA 91767**

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SCALE: NOTED  
CAD FILE:  
PROJECT NO.:  
DATE: " 01-29-2024 "

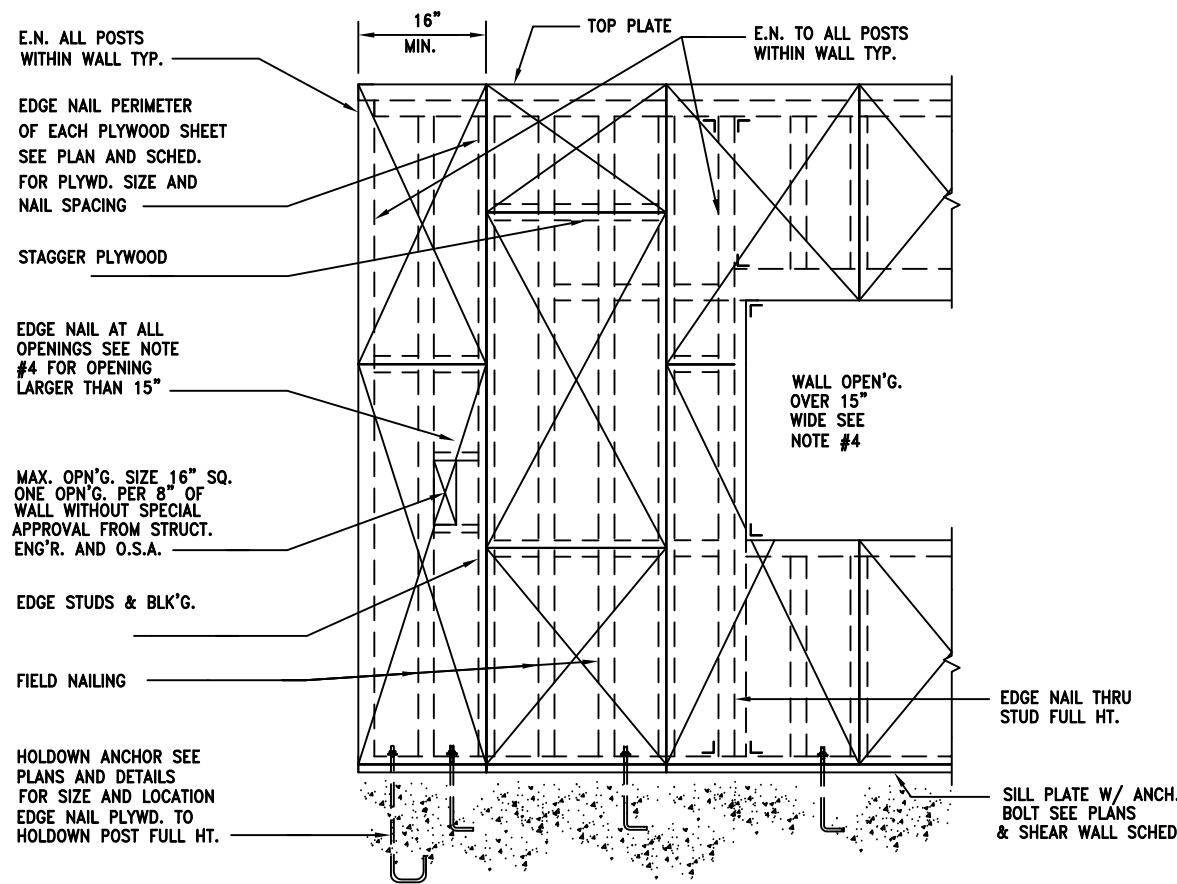
SN2





- \*\* AT 2" AND 3" SILL NAIL SPACING, THE CONTRACTOR MUST PREDRILL HOLES
- \*\* USE COMMON NAILS ONLY.
- \*\* FOR LAG BOLTS PROVIDE LEAD HOLES 40%-70% OF THREADED SHANK DIAMETER  
FULL DIAMETER FOR SMOOTH SHANK PORTION.

- NOTES:
1. WALL BRACKET FOR SMOOTH SHOWN PORTION.
2. WALL SHALL HAVE 5/8" MIN EDGE DISTANCE FROM EDGE OF PLYWOOD AND EDGE OF STUD. USE COMMON NAILS ONLY.
3. USE 3X DOWEL STUDS & B.L.G.'S. FOR THE NAIL SPACING IS LESS THAN 4" O.C. FOR THE STUDS AND 12" O.C. FOR THE NAILS AND WERE CALLED OUT IN PLANS AND DETAILS. USE 3X SILL PLATE AT ALL SHEAR WALLS 12,13,14 AND 15 OR USE S3BLOC ON TOP OF EXISTING SILL PLATE.
4. PROVIDE 3/8" NAIL EDGE DISTANCE AT 3X STUDS AND B.L.G.'S.
5. AT OPENING IN SHEAL PANEL OVER 15" WIDE, PROVIDE SLOD STUD & B.L.G. AT HEAD AND SILL LEVEL, EACH SIDE OF OPENING STRAP WITH 2" X 16 G. X 3 TIMES OPENING WIDTH ONLY. METAL STRAP NAIL WITH 80 @ 2" O.C.
6. NAILING WITH MACHINE NAILS SHALL CONFORM TO THE WOOD GENERAL NOTES ON SHEAL.
7. ALL DEFECTIVE NAILS SHALL BE REMOVED AND REPLACED WITH SOUND NAILING.
8. PLYWOOD SHEATHING SHALL BE 1/2" STRUCT-1 PLYWOOD (EXT. GLUE) GRADE W/ 84 MILS. PROVIDE FRAMING MEMBER OR BLOCKING AT ALL EDGES PER SCHEDULE.
9. PROVIDE EDGE NAILING TO END STUD OR STOP WHERE HOLDOWN OCCURS AND TO ALL OTHER STUDS IN SHEARWALLS.
10. PLYWOOD SHEATHING SHALL CONFORM TO PLYWOOD SHEARWALL DETAILS.
11. SILL PLATES SHALL BE PRESSURE TREATED D.F. AND CONFORM TO SILL PLATES DETAILS. PROVIDE MINIMUM OF 3 ANCHOR BOLTS IN ALL SHEAR WALLS.
12. ANCHOR SPACING SHALL BE REQUIRED TO HALF THE SPACING SHOWN WHERE SHEAR WALL SHEATHING IS ON BOTH SIDES OF THE WALL. STAGGER NAILING AND JOINTS.
13. ALL SHEARWALLS NAILING, ANCHOR BOLT INSTALLATION, HOLDOWN INSTALLATION AND OTHER ELEMENTS OF SHEARWALL ASSEMBLY SHALL BE INSPECTED BY THE ENGINEER OF RECORD, A CERTIFICATE OF INSPECTION MUST BE SUBMITTED TO THE ENGINEER OF RECORD AND APPROVED. THIS BUILDING OWNER SHALL BE RESPONSIBLE FOR THE INSPECTOR FOR PERFORMANCE FOR THE STRUCTURAL OBSERVATION.
14. PLYWOOD SHEARWALLS SHALL BE COVERED WITH 2 LAYERS OF 1/4" FELTS UNDER LAYMENT PRIOR TO PLACING FINISH MATERIAL.
15. ALL LAG BOLTS (UB) TO BE 1/2" INSTALLED WITH PLOT HOLE AND WRENCH.
16. 5/8" D.M.B. MAY BE REPLACED BY 5/8" D.M.B. INSTALLED RODS BY 3" DIAED, WITH EMPLOY E.T. D.P.O.V. (CSE ESB-2805, OR EQUIVALENT) AT THE SAME SPACING WITH SPECIAL INSPECTION.
17. FOR BOLT SHALL HAVE MIN 3X1/4" THICK SQUARE WASHER.
18. FRAMING MEMBERS OR BLOCKING SHALL BE PROVIDED AT ALL EDGES OF ALL PLYWOOD SHEATHING.
19. PLYWOOD PANEL SHALL BE MANUFACTURED USING EXTERIOR GRADE.
20. ALL EXTERIOR WALL TO BE SECURED WITH 5/8" D.M.B. X 16" A.B.T. AT 72" O.C. WITH 7" OF EMBEDMENT, UNLESS OTHERWISE NOTED, AND WITH MINIMUM 3X3/4" THICK PLATE WASHER UNDER NUT AT EACH BOLT.
21. ALL INTERIOR WALLS WITH SHOT PINS, RANSET 3/4", OR EQUIVALENT, AT 36" O.C. AT BEARING WALLS AND 48" O.C. AT NON-BEARING WALLS, UNLESS OTHERWISE NOTED.
22. CODE MINIMUM (3) ANCHOR BOLTS PER PANEL.
23. CODE MINIMUM 160 PSI SILL PLATES AT 16" O.C. TYPICAL AT ALL









## TYPICAL SHEARWALL SCHEDULE



01-29-202

CONSULTANT:  
**MESA Enterprise, Inc.**  
Structural/Consulting.  
1304 Corte Maltera.  
Costa Mesa Ca 92626.  
TEL:562-235-4572-  
FAX:562-490-8362.

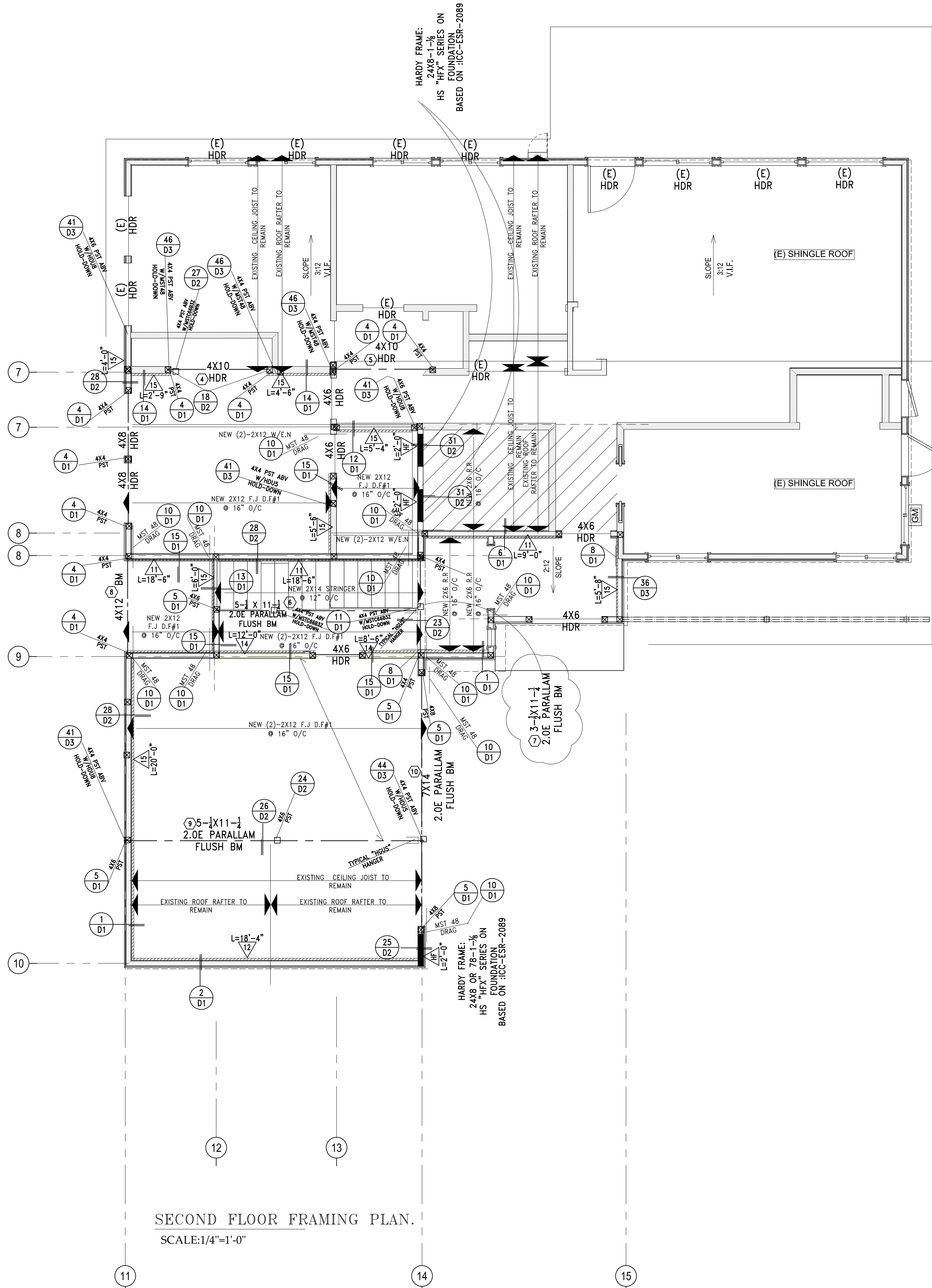
**REVISIONS:**

PROJECT:  
113 SHARON DR.  
POMONA, CA 91767

DRAWN BY:	
SCALE:	NOTED
LAD FILE:	
PROJECT NO.:	
DATE: 01-29-2024	

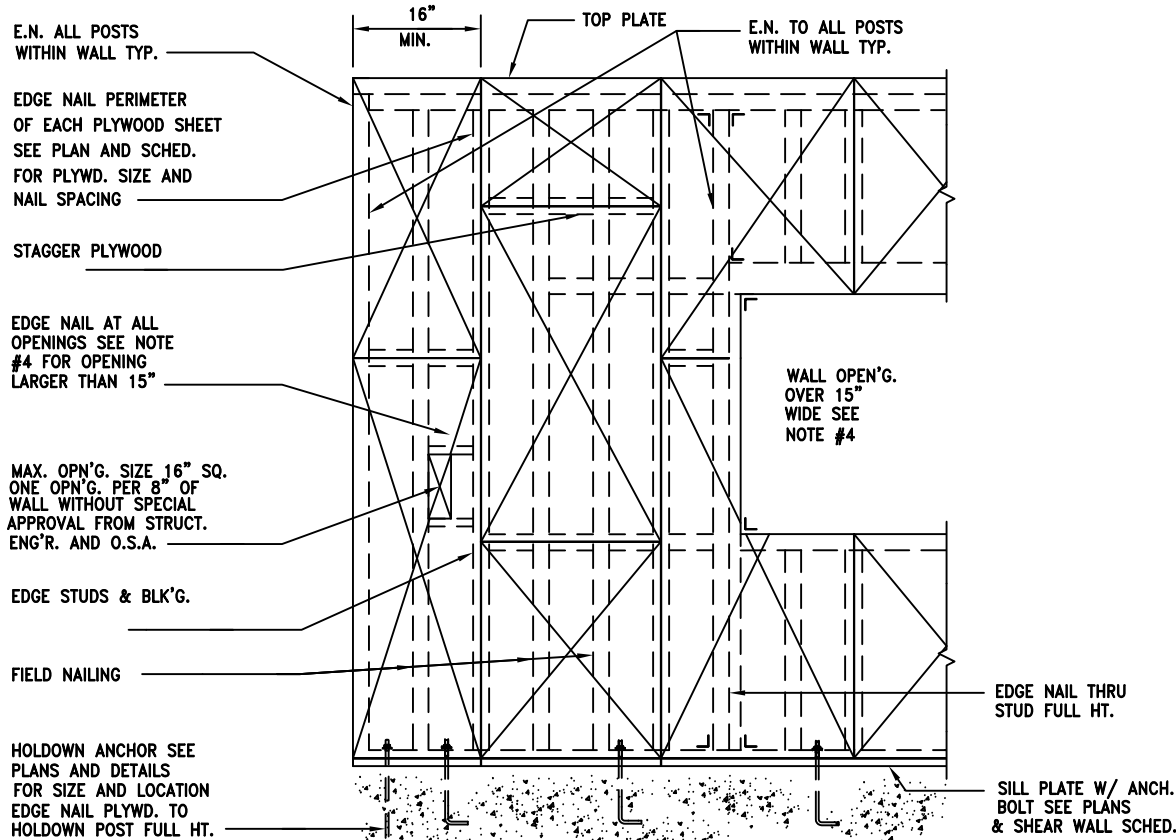




SECOND FLOOR FRAMING PLAN.  
SCALE:1/4"=1'-0"

SHEAR WALL SCHEDULE										TOP ANCHORAGE
MARK	SHEATHING SEE NOTE #7	E.N.	F.N.	EDGE STUD & BLK'G.	SEE NOTE #2,8,9		NAIL SIZE	SILL NAIL SPACING	CAPACITY	SIMPSON A35/LTP4
					CONNECTOR	SPACING				
△	15/32" C-D-C-C PLYWD. BLKD W/84 @ 6" O.C. E.N. & 12" O.C. F.N.	6"			5/8" AB @ 48" O.C.	4'-0"	8d	16d @ 6" O.C.	200 lb./ft.	16" O.C.
△	15/32" C-D-C-C PLYWD. BLKD W/84 @ 4" O.C. E.N. & 12" O.C. F.N.	4"	12"	2X	5/8" AB @ 36" O.C.	2'-8"	8d	16d @ 5" O.C.	285 lb./ft.	16" O.C.
△	15/32" STR 1 PLYWD. BLKD W/84 @ 4" O.C. E.N. & 12" O.C. F.N.	4"	12"	3X	5/8" AB @ 24" O.C.	2'-0"	8d	5/8" LAG @ 6" O.C.	355 lb./ft.	12" O.C.
△	15/32" STR 1 PLYWD. BLKD W/104 @ 3" O.C. E.N. & 12" O.C. F.N.	4"	12"	3X	5/8" AB @ 16" O.C.	1'-4"	10d	5/8" LAG @ 6" O.C.	380 lb./ft.	12" O.C.
△	15/32" STR 1 PLYWD. BLKD W/104 @ 3" O.C. E.N. & 12" O.C. F.N.	3"	12"	3X	5/8" AB @ 16" O.C.	1'-4"	10d	5/8" LAG @ 6" O.C.	500 lb./ft.	8" O.C.
△	15/32" STR 1 PLYWD. BLKD W/104 @ 2" O.C. E.N. & 12" O.C. F.N.	2"	12"	3X	5/8" AB @ 8" O.C.	8"	10d	5/8" LAG @ 6" O.C.	650 lb./ft.	8" O.C.

- NOTES:
- NAILS SHALL HAVE 3/8" MIN. EDGE DISTANCE FROM EDGE OF PLYWOOD AND EDGE OF STUD. USE COMMON NAILS ONLY.
  - USE 3X EDGE STUDS & BLK'G. WHERE NAIL SPACING IS LESS THAN 6" O.C. FOR 8d NAILS & 4" O.C. FOR 10d NAILS AND WHERE CALLED OUT IN PLANS AND DETAILS. USE 3X SILL PLATE AT ALL SHEAR WALLS 12,13,14 AND 15 OR USE SUBBLOCKING ON TOP OF EXISTING SILL PLATE.
  - PROVIDE 3/8" NAIL EDGE DISTANCE AT 3X STUDS AND BLK'G.
  - AT OPENING IN SHEAR PANEL OVER 15" WIDE, PROVIDE SOLID BLK'G. AT HEAD AND SILL LEVEL, EACH SIDE OF OPENING STRIP WITH 1" X 16 GA. X 3 TIMES OPENING WIDTH GALV. METAL STRAP NAIL WITH 8d @ 2" O.C.
  - NAILING WITH MACHINE NAILS SHALL CONFORM TO THE WOOD GENERAL NOTES ON SNI
  - ALL DEFECTIVE NAILS SHALL BE REMOVED AND REPLACED WITH SOUND NAILING.
  - PLYWOOD SHEATHING SHALL BE 1/2" STRUCT.1 PLYWOOD (EXT. GLUE) GRADE W/ 84 NAILS U.N.O.. PROVIDE FRAMING MEMBER OR BLOCKING AT ALL EDGES PER SCHEDULE. PROVIDE EDGE NAILING TO END STUD OR POST WHERE HOLDOWN OCCURS AND TO ALL OTHER POSTS IN SHEARWALLS. PLYWOOD SHEATHING SHALL CONFORM TO PLYWOOD SHEARWALL DETAILS.
  - SILL PLATES SHALL BE PRESSURE TREATED D.F. AND CONFORM TO SILL PLATES DETAILS. PROVIDE MINIMUM OF 3 ANCHOR BOLTS IN ALL SHEAR WALLS.
  - ANCHOR SPACING SHALL BE REDUCED TO HALF THE SPACING SHOWN WHERE SHEAR WALL SHEATHING IS ON BOTH SIDES OF THE WALL. STAGGER NAILING AND JOINTS.
  - ALL SHEARWALLS NAILING, ANCHOR BOLT INSTALLATION, HOLDOWN INSTALLATION AND OTHER ELEMENTS OF SHEARWALL ASSEMBLY SHALL BE INSPECTED BY THE ENGINEER OF RECORD, A CERTIFICATE OF INSPECTION MUST BE SUBMITTED TO THE ENGINEER OF RECORD AND TO THE BUILDING DEPARTMENT. THE BUILDING OWNER SHALL BE RESPONSIBLE FOR THE INSPECTOR FOR PERFORMING THE STRUCTURAL OBSERVATION.
  - PLYWOOD SHEARWALLS SHALL BE COVERED WITH 2 LAYERS OF 15 # FELT UNDER LAYMENT PRIOR TO PLACING FINISH MATERIAL.
  - ALL LAG BOLTS (LB) TO BE 8" LONG INSTALLED WITH PILOT HOLE AND WRENCH.
  - 5/8" DIAM. A.B. MAY BE REPLACED BY 5/8" DIAM. THREADED RODS BY 5" EMBED. WITH SIMPSON ET EPOXY, ICC ESR-2085, (OR EQUIVALENT) AT THE SAME SPACING, WITH SPECIAL INSPECTION. EACH BOLT SHALL HAVE MIN.3"x1/4" THICK SQUARE WASHER.
  - FRAMING MEMBERS OR BLOCKING SHALL BE PROVIDED AT ALL EDGES OF ALL PLYWOOD SHEETS IN SHEAR WALL.
  - ALL PLYWOOD PANEL SHALL BE MANUFACTURED USING EXTERIOR GLUE.
  - ALL EXTERIOR WALL TO BE SECURED WITH 5/8" DIAM. x 16" A.B.'s AT 12" O.C. WITH 7" OF EMBEDMENT, UNLESS OTHERWISE NOTED, AND WITH MINIMUM 3"x5"x1/4" THICK PLATE WASHER UNDER NUT AT EACH BOLT.
  - ALL INTERIOR WALLS WITH SHOT PINS, RANSET # 3346, OR EQUIVALENT, AT 36" O.C. AT BEARING WALLS AND 48" O.C. AT NON-BEARING WALLS, UNLESS OTHERWISE NOTED.
  - CODE MINIMUM (2) ANCHOR BOLTS PER PANEL.
  - CODE MINIMUM 16d SOLE PLATE NAILS AT 16" O.C. TYPICAL AT ALL



TYPICAL SHEARWALL SCHEDULE



01-29-2024

CONSULTANT:

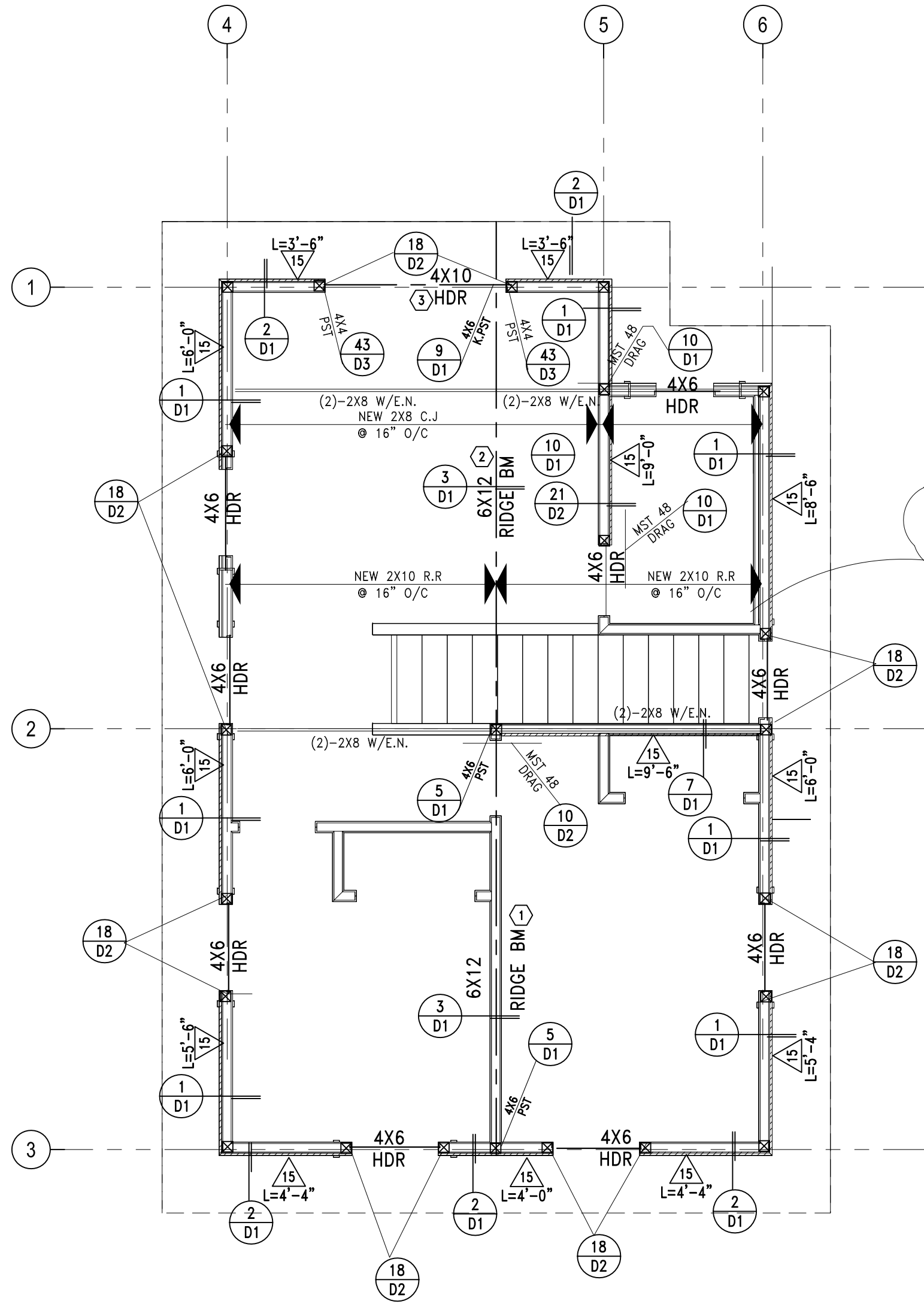
MESA Enterprise, Inc  
Structural/Consulting.  
1304 Corte Madera  
Costa Mesa Ca 92626.  
TEL:562-235-4572-  
FAX:562-490-8362.

PROJECT:

113 SHARON DR.  
POMONA, CA 91767

DRAWN BY:  
SCALE: NOTED  
CAD FILE:  
PROJECT NO.:  
DATE: 01-29-2024



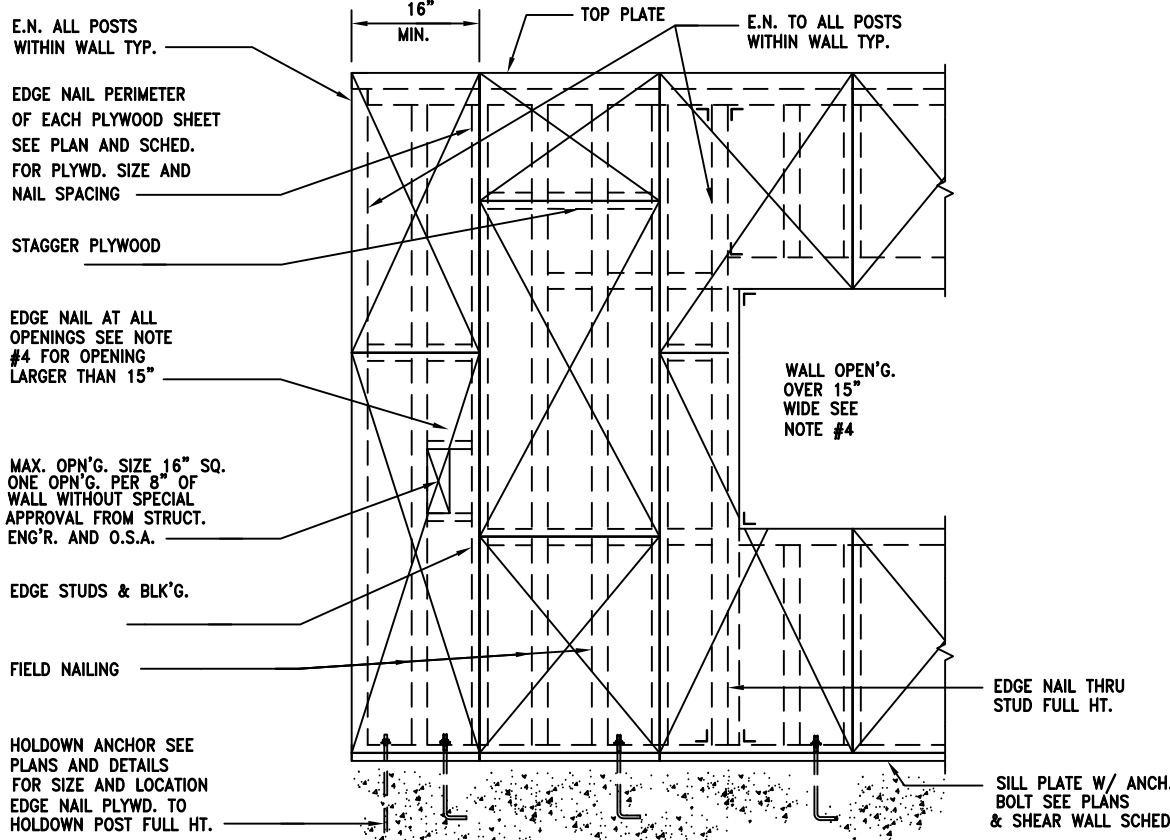


ROOF FRAMING PLAN.  
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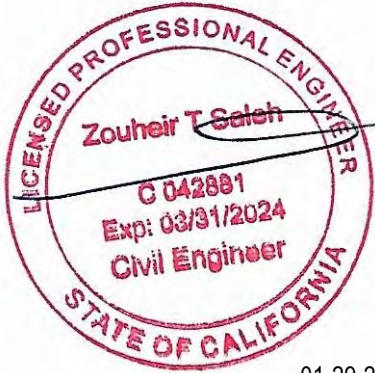
SHEAR WALL SCHEDULE										TOP ANCHORAGE
MARK	SHEATHING SEE NOTE #7	E.N.	F.N.	EDGE STUD & BLK'G.	SILL PLATE	SEE NOTE #2,8,9	NAIL SIZE	SILL,NAIL SPACING	CAPACITY	SIMPSON A35/LTP4
					CONNECTOR	SPACING				
	15/32" C-D-C-C PLYWD. BLKD W/84 @ 8" O.C. E.N. & 12" O.C. F.N.	6"			5/8" AB @ 48" O.C.	4'-0"	8d	18d @ 6" O.C.	200 lb./ft.	16" O.C.
	15/32" C-D-C-C PLYWD. BLKD W/84 @ 4" O.C. E.N. & 12" O.C. F.N.	4"	12"	2X	5/8" AB @ 32" O.C.	2'-8"	8d	18d @ 5" O.C.	285 lb./ft.	16" O.C.
	15/32" STR 1 PLYWD. BLKD W/84 @ 4" O.C. E.N. & 12" O.C. F.N.	4"	12"	3X	5/8" AB @ 24" O.C.	2'-0"	8d	5/8" lag @ 8" O.C.	355 lb./ft.	12" O.C.
	15/32" STR 1 PLYWD. BLKD W/104 @ 4" O.C. E.N. & 12" O.C. F.N.	4"	12"	3X	5/8" AB @ 16" O.C.	1'-4"	10d	5/8" lag @ 8" O.C.	380 lb./ft.	12" O.C.
	15/32" STR 1 PLYWD. BLKD W/104 @ 3" O.C. E.N. & 12" O.C. F.N.	3"	12"	3X	5/8" AB @ 16" O.C.	1'-4"	10d	5/8" lag @ 8" O.C.	500 lb./ft.	8" O.C.
	15/32" STR 1 PLYWD. BLKD W/104 @ 2" O.C. E.N. & 12" O.C. F.N.	2"	12"	3X	5/8" AB @ 8" O.C.	8"	10d	5/8" lag @ 8" O.C.	650 lb./ft.	8" O.C.

- NOTES:
- NAILS SHALL HAVE 3/8" MIN. EDGE DISTANCE FROM EDGE OF PLYWOOD AND EDGE OF STUD. USE COMMON NAILS ONLY.
- \*\* AT 2" AND 3" SILL NAIL SPACING, THE CONTRACTOR MUST PREDRILL HOLES.
- \*\* USE COMMON NAILS ONLY.
- \*\* FOR LAG BOLTS PROVIDE LEAD HOLES40X-70X OF THREADED SHANK DIAMETER AND FULL DIAMETER FOR SMOOTH SHANK PORTION.

9. ANCHOR SPACING SHALL BE REDUCED TO HALF THE SPACING SHOWN WHERE SHEAR WALL SHEATHING IS ON BOTH SIDES OF THE WALL. STAGGER NAILING AND JOINTS.
10. ALL SHEARWALLS NAILING, ANCHOR BOLT INSTALLATION, HOLDOWN INSTALLATION AND OTHER ELEMENTS OF SHEARWALL ASSEMBLY SHALL BE INSPECTED BY THE ENGINEER OF RECORD, A CERTIFICATE OF INSPECTION MUST BE SUBMITTED TO THE ENGINEER OF RECORD AND TO THE BUILDING DEPARTMENT. THE BUILDING OWNER SHALL BE RESPONSIBLE FOR THE INSPECTOR FOR PERFORMING THE STRUCTURAL OBSERVATION.
11. PLYWOOD SHEARWALLS SHALL BE COVERED WITH 2 LAYERS OF 15 # FELT UNDER LAYMENT PRIOR TO PLACING FINISH MATERIAL.
12. ALL LAG BOLTS (LB) TO BE 8" LONG INSTALLED WITH PILOT HOLE AND WRENCH.
13. 5/8" DIAM. A.B. MAY BE REPLACED BY 5/8" DIAM. THREADED RODS BY 5" EMBED. WITH SIMPSON ET EPOXY, ICC ESB-2802, (OR EQUIVALENT) AT THE SAME SPACING, WITH SPECIAL INSPECTION. EACH BOLT SHALL HAVE MIN.3"x3"x1/4" THICK SQUARE WASHER.
14. FRAMING MEMBERS OR BLOCKING SHALL BE PROVIDED AT ALL EDGES OF ALL PLYWOOD SHEETS IN SHEAR WALL.
15. ALL PLYWOOD PANEL SHALL BE MANUFACTURED USING EXTERIOR GLUE.
16. ALL EXTERIOR WALL TO BE SECURED WITH 5/8" DIAM. x 16" A.B.'s AT 7'2" O.C. WITH 7" OF EMBEDMENT, UNLESS OTHERWISE NOTED, AND WITH MINIMUM 3"x3"x1/4" THICK PLATE WASHER UNDER NUT AT EACH BOLT.
17. ALL INTERIOR WALLS WITH SHOT PINS; ROWSET # 3348, OR EQUIVALENT, AT 3'2" O.C. AT BEARING WALLS AND 48" O.C. AT NON-BEARING WALLS, UNLESS OTHERWISE NOTED.
18. CODE MINIMUM (2) ANCHOR BOLTS PER PANEL.
19. CODE MINIMUM 1/8" SOLE PLATE NAILS AT 16" O.C. TYPICAL AT ALL



TYPICAL SHEARWALL SCHEDULE



01-29-2024

CONSULTANT:

MESA Enterprise, Inc  
Structural/Consulting,  
1304 Corte Maltera  
Costa Mesa Ca 92626.  
TEL:562-235-4572-  
FAX:562-490-8362.

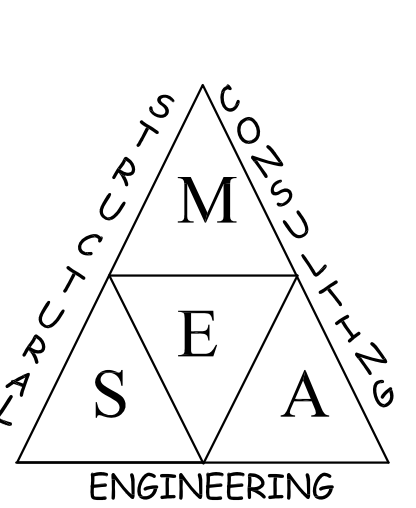
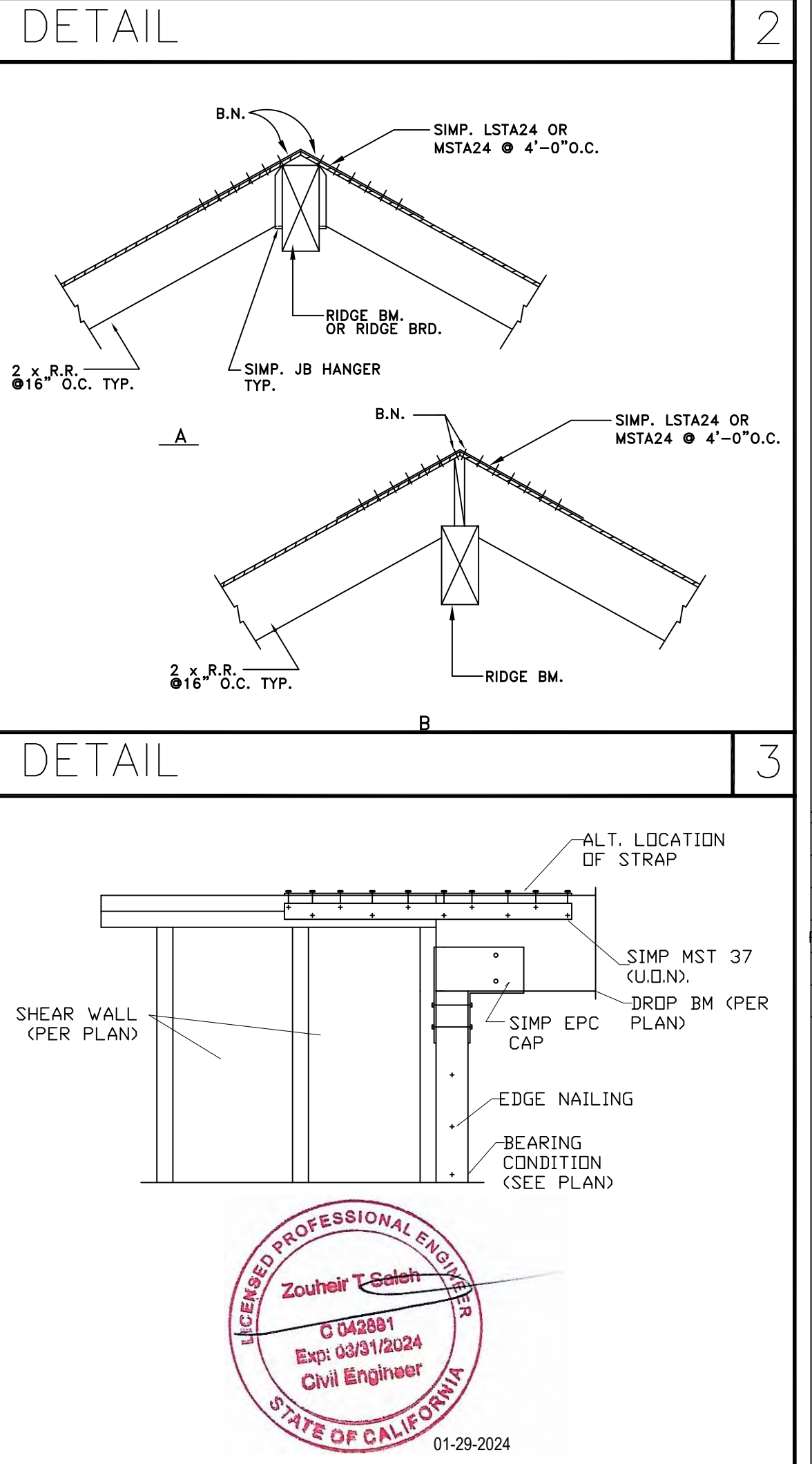
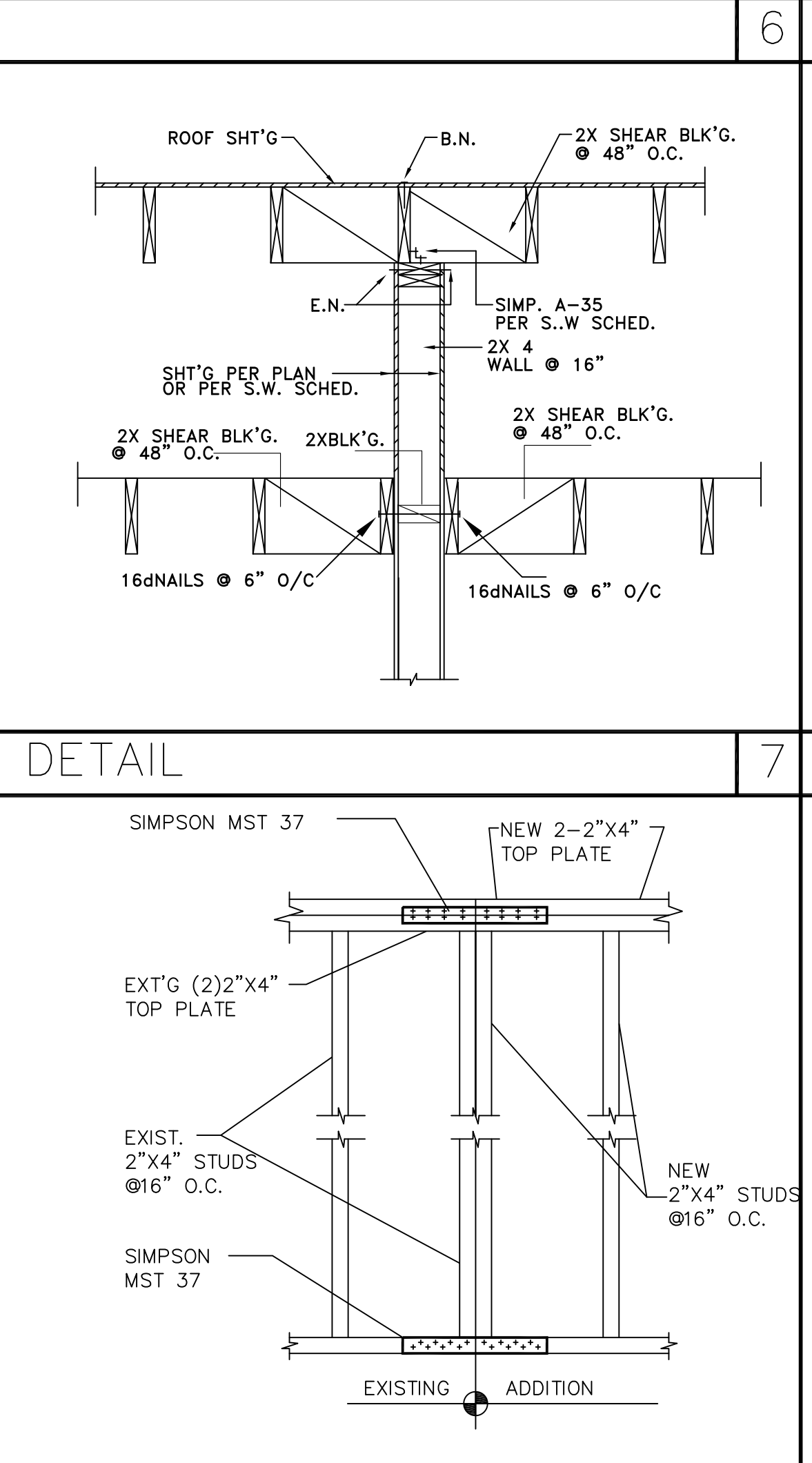
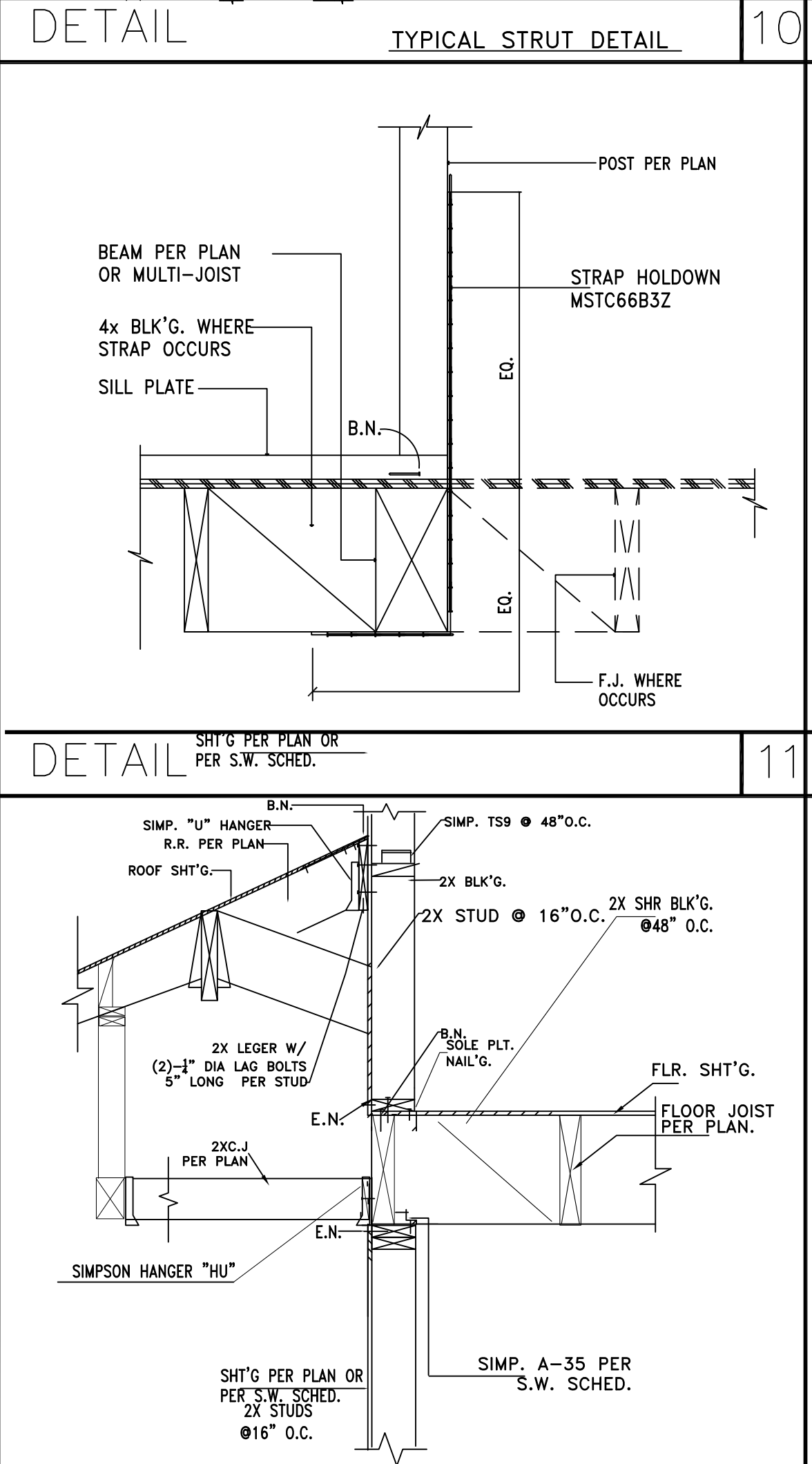
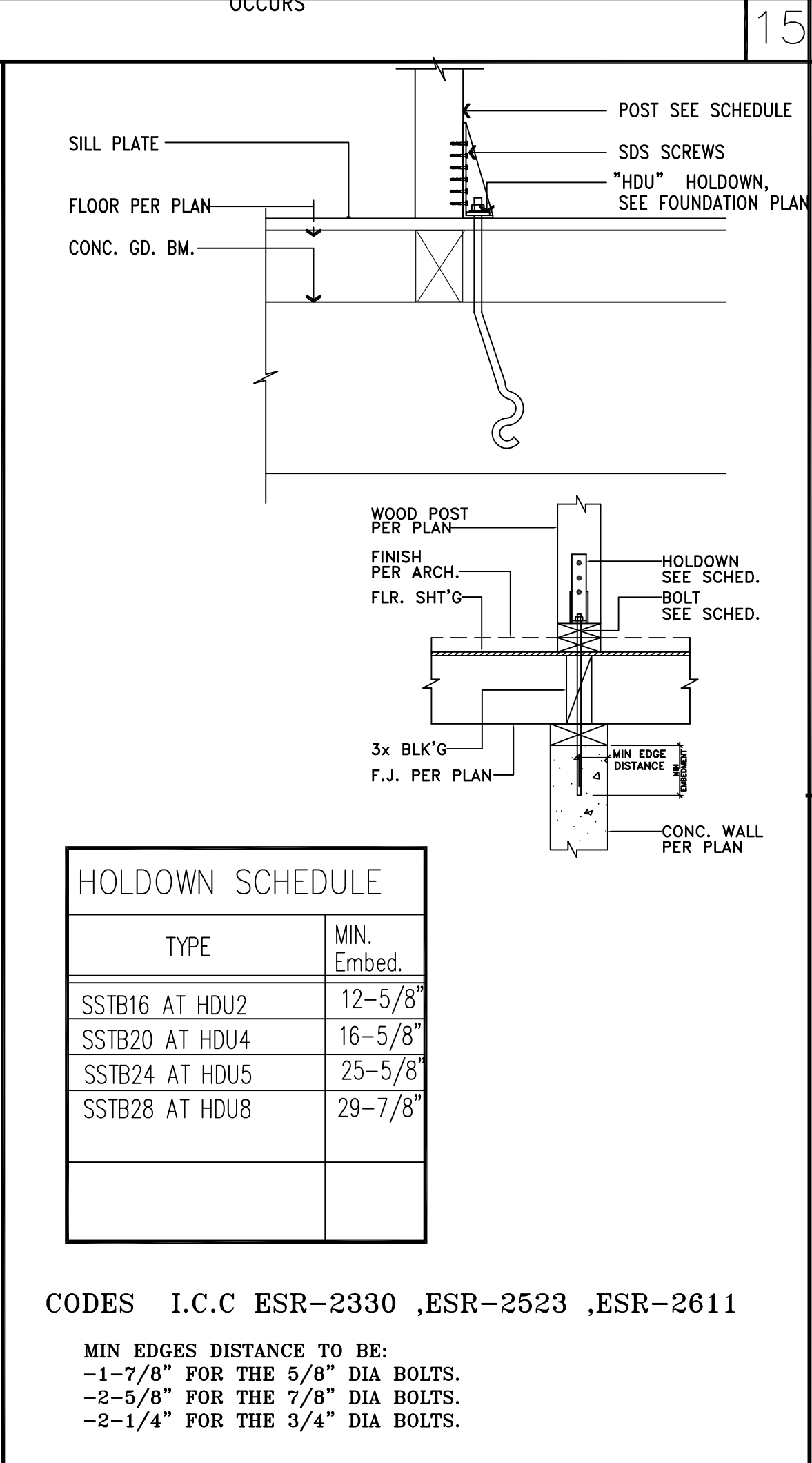
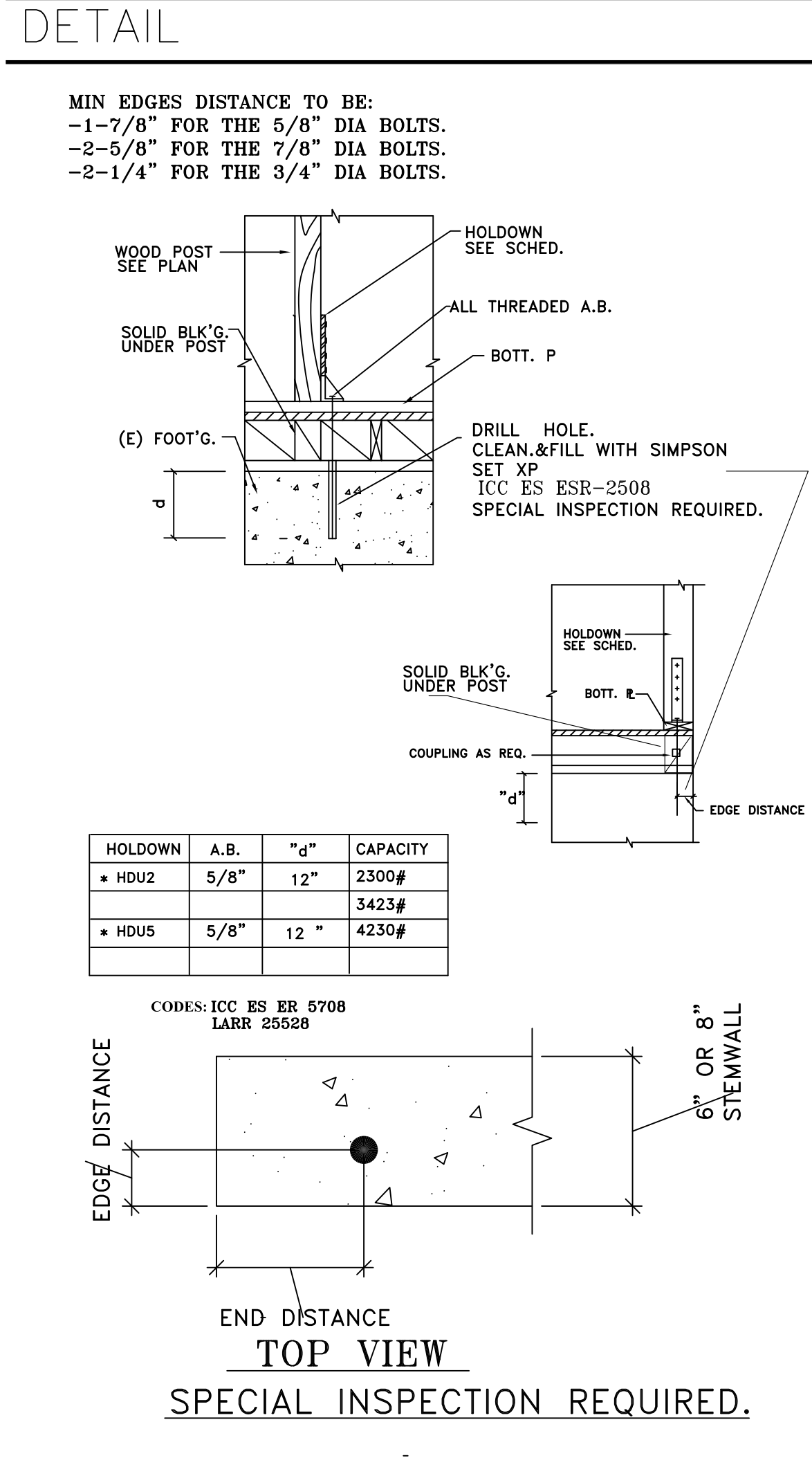
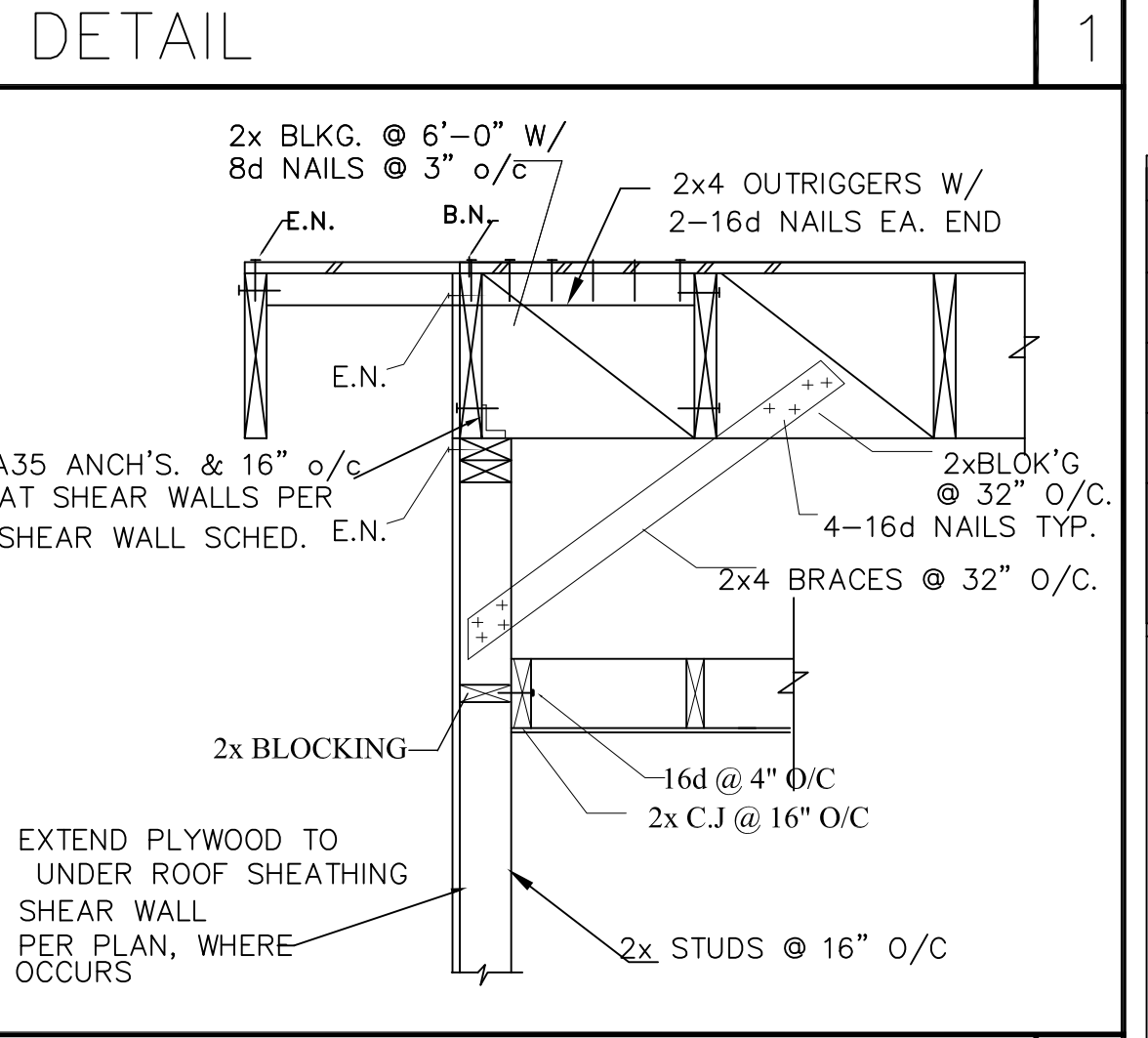
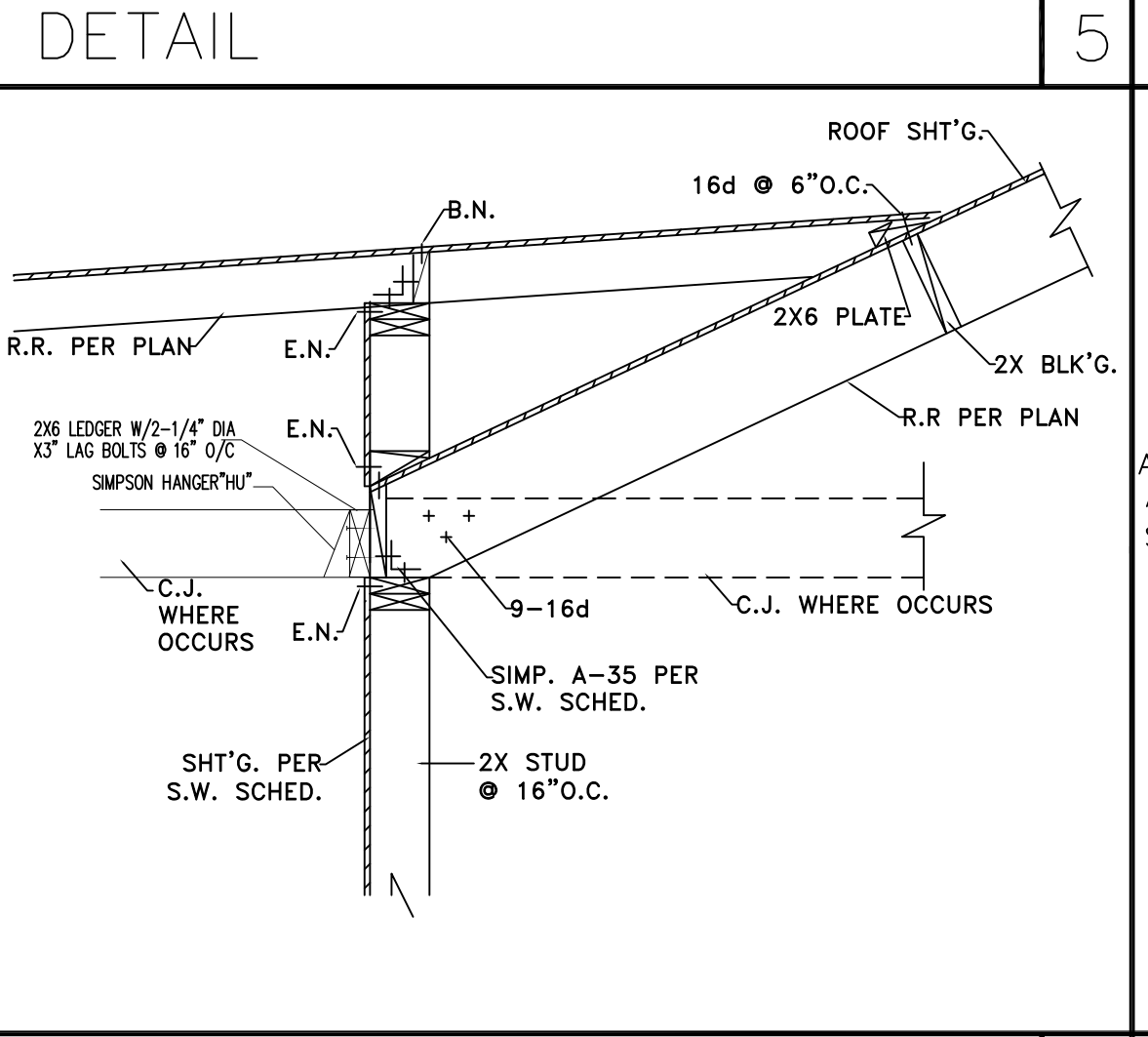
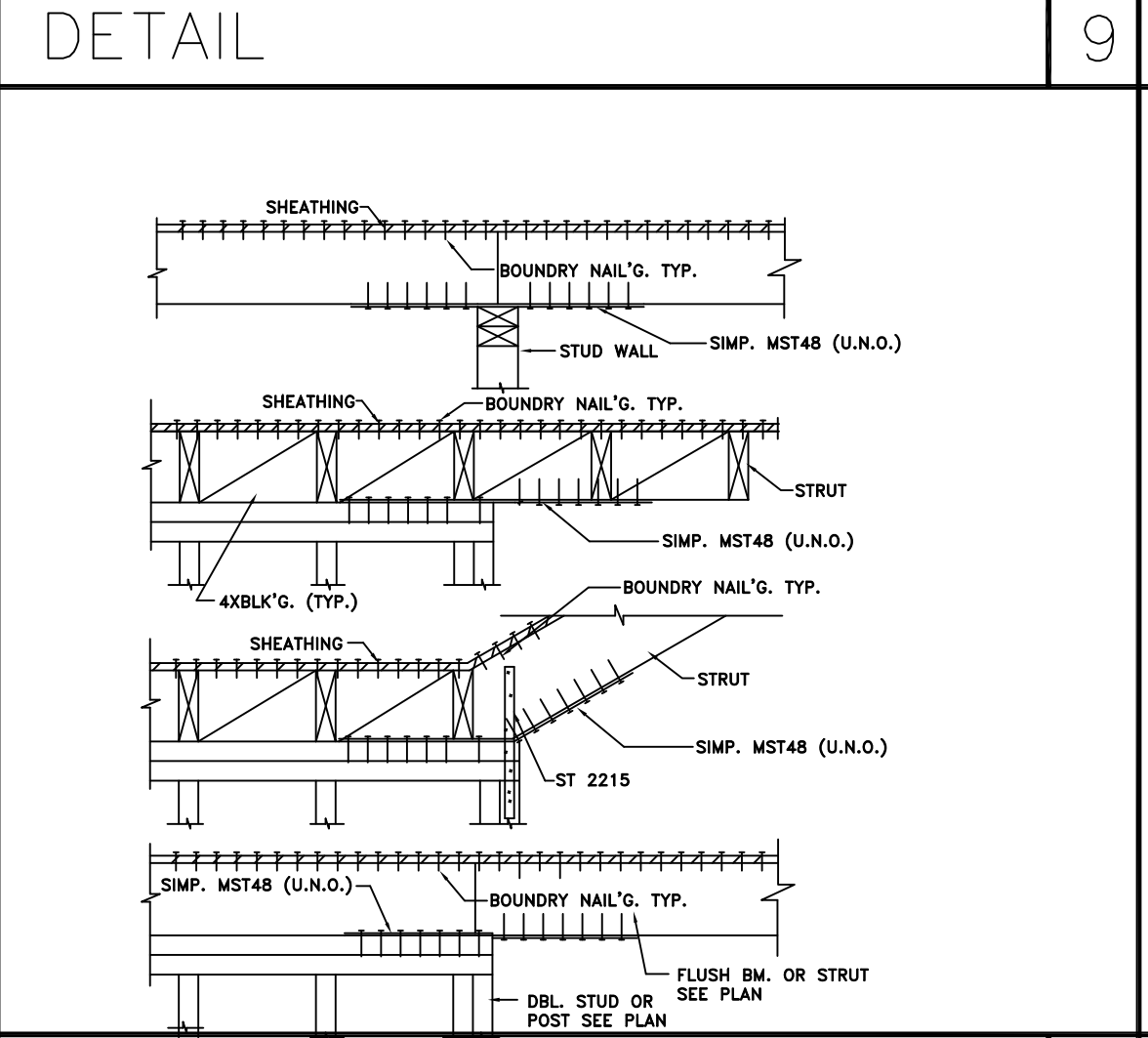
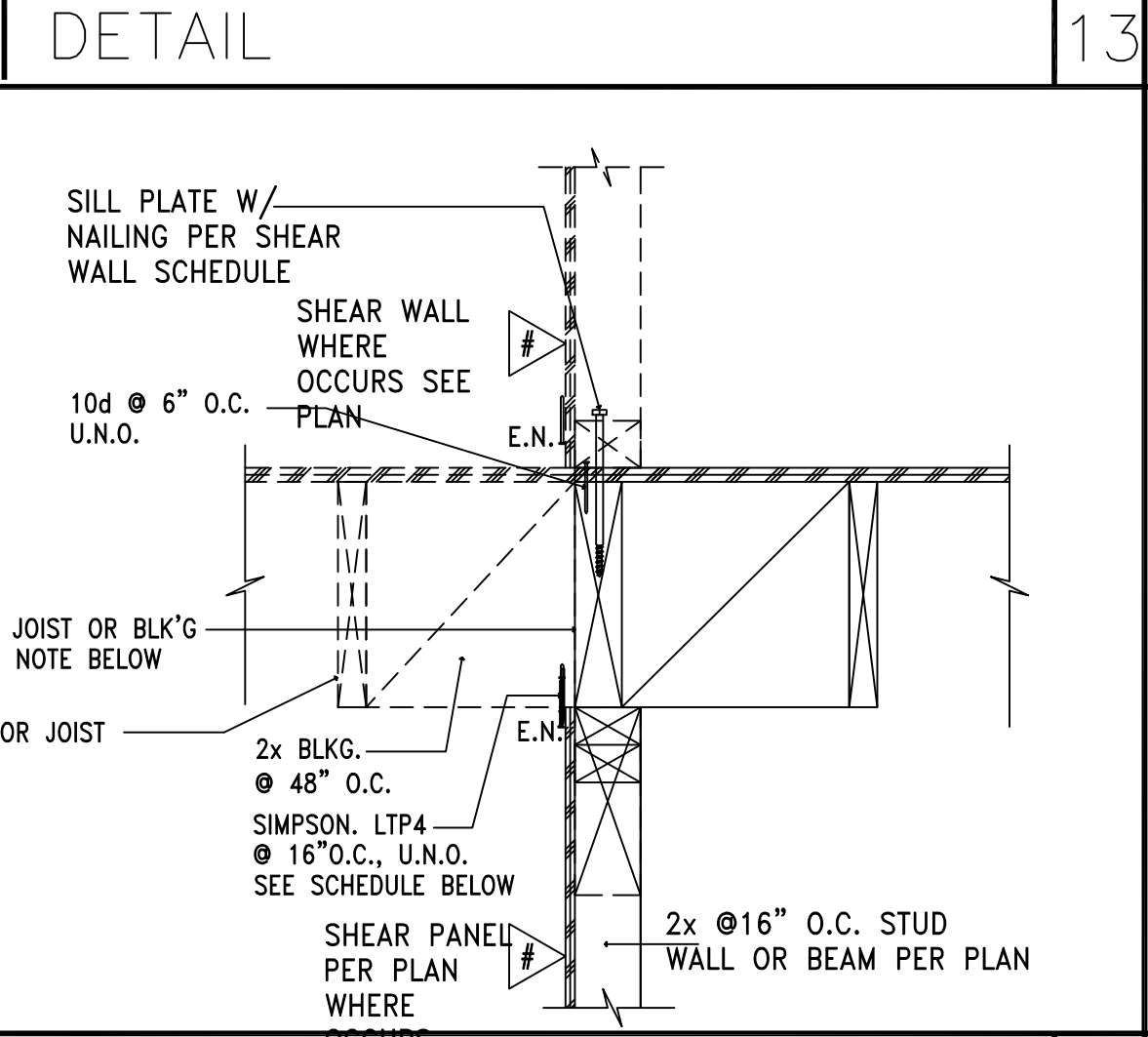
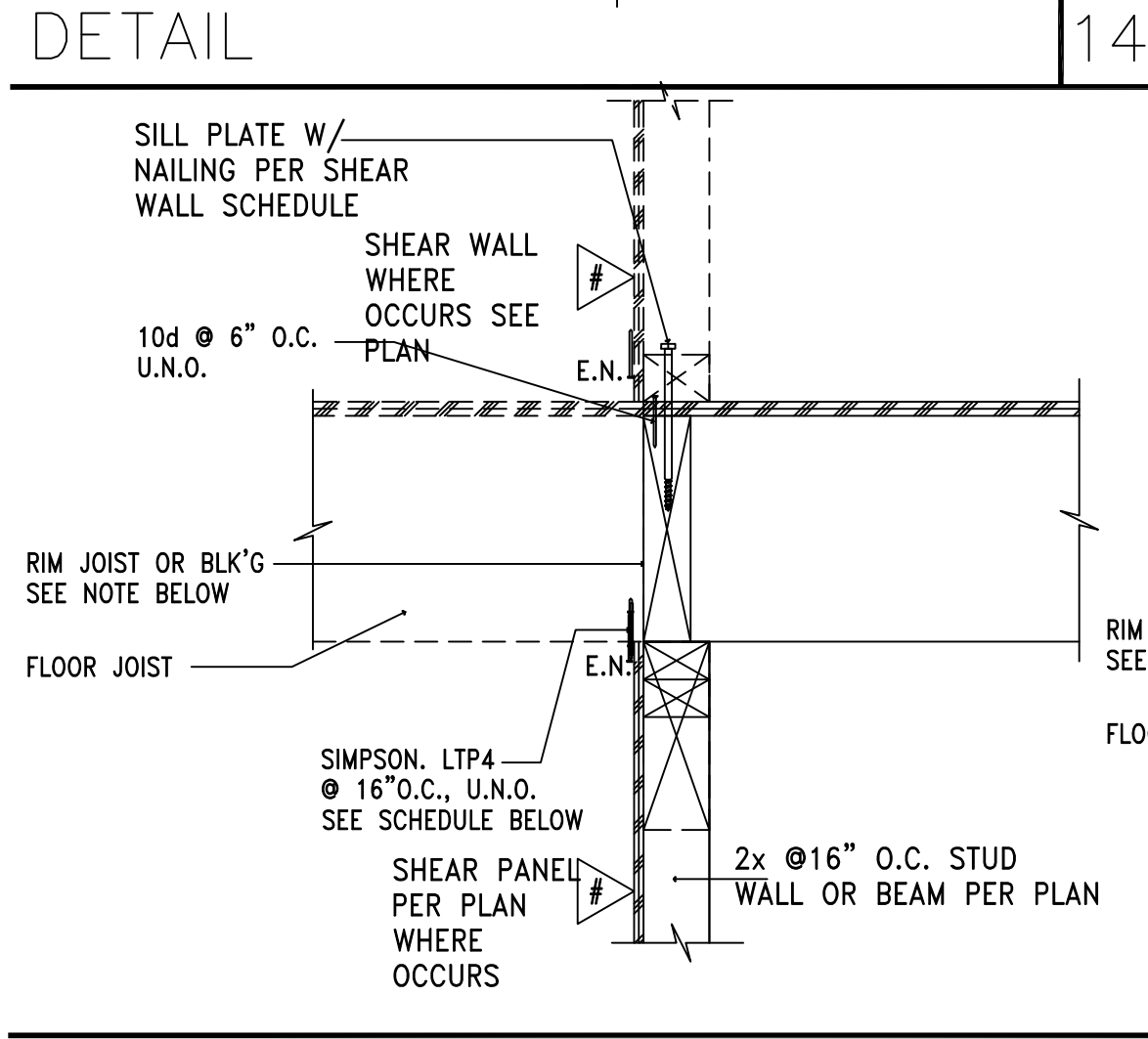
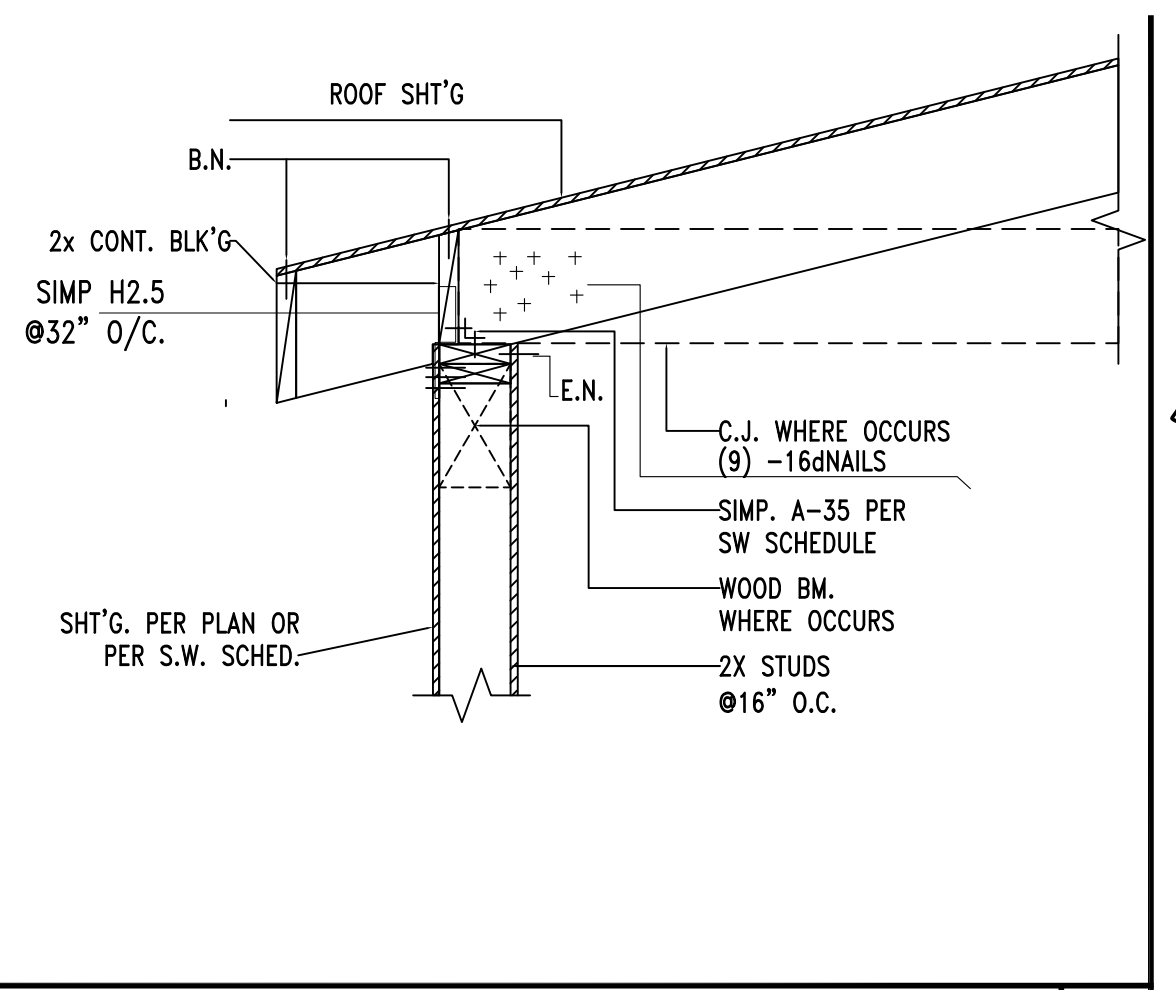
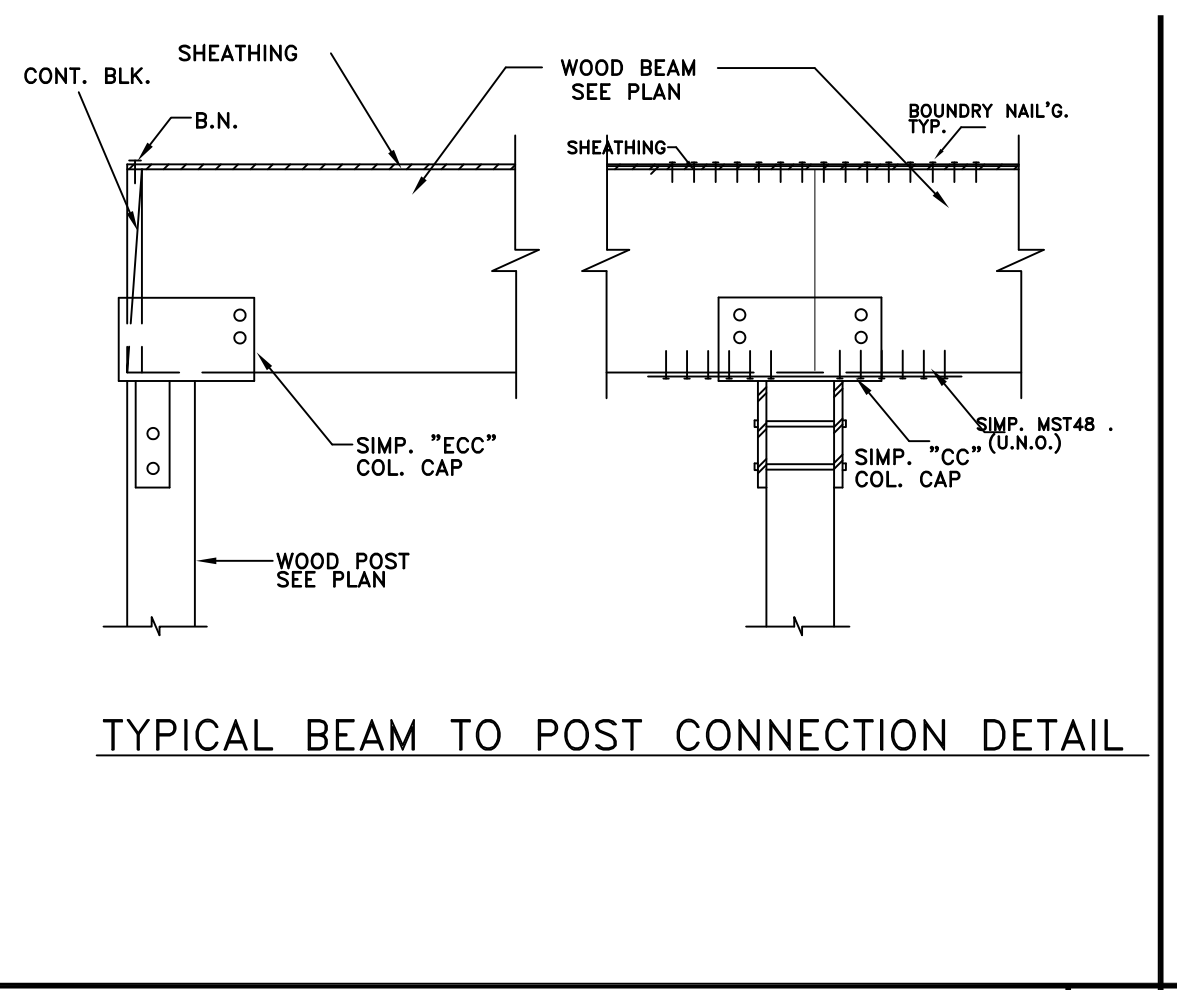
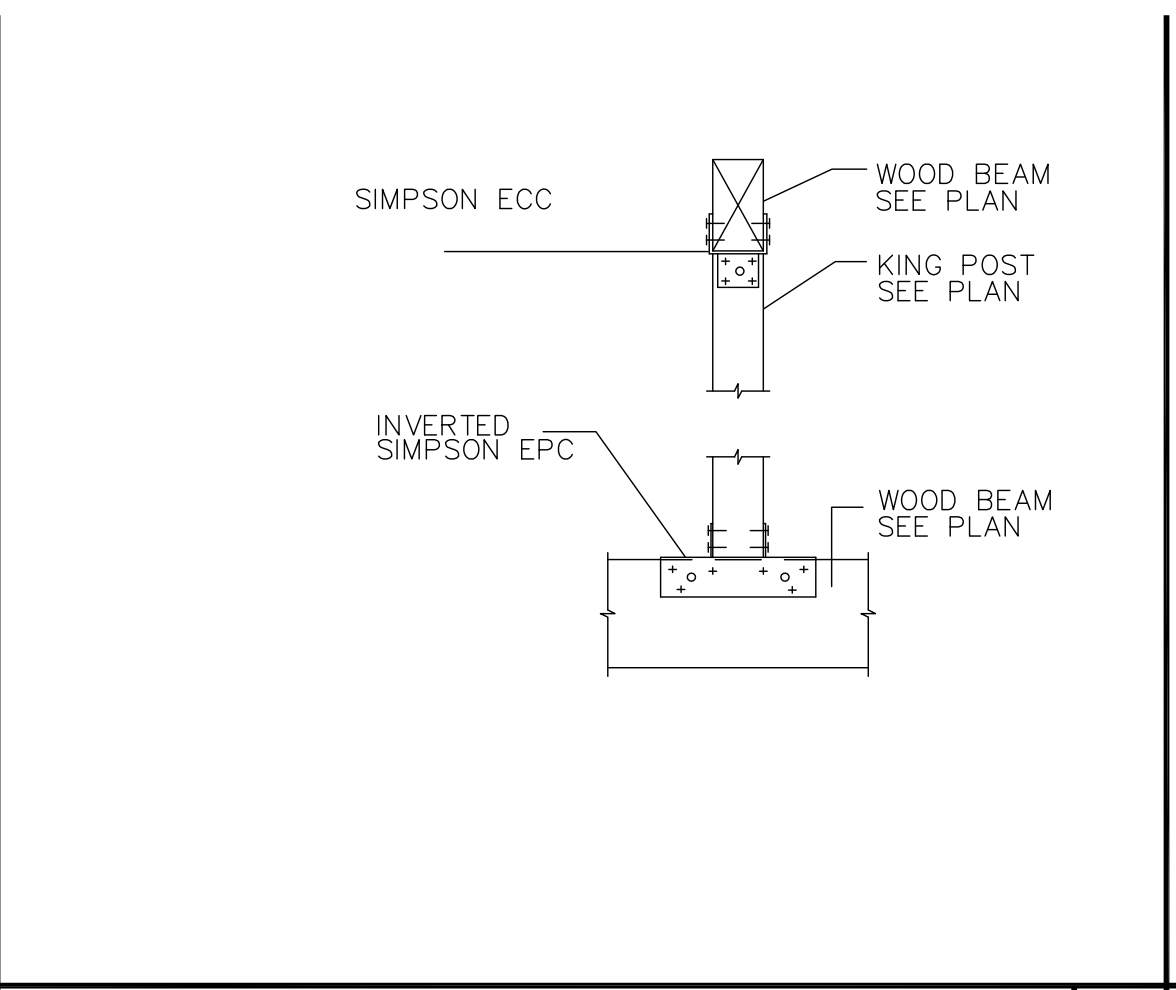
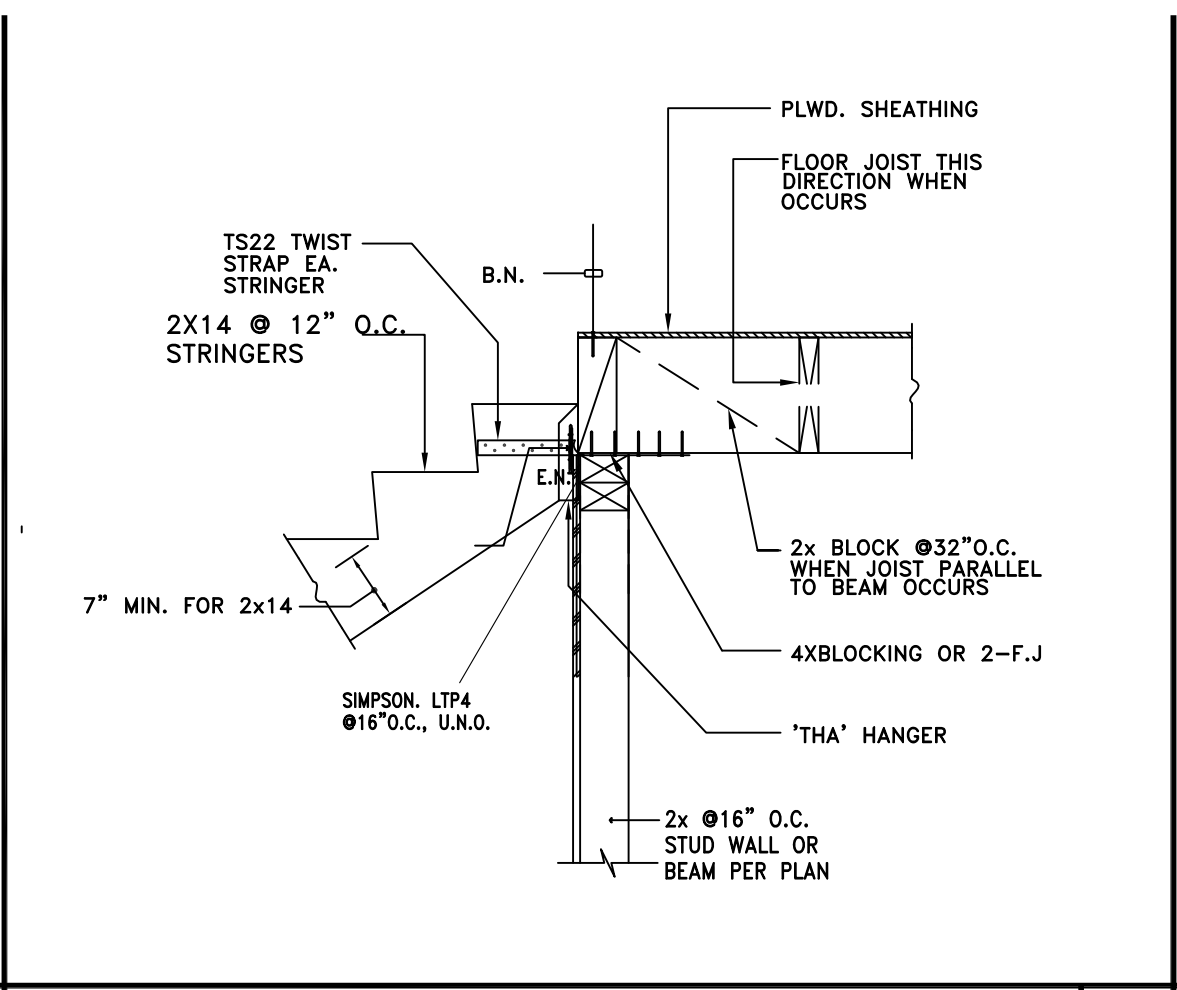
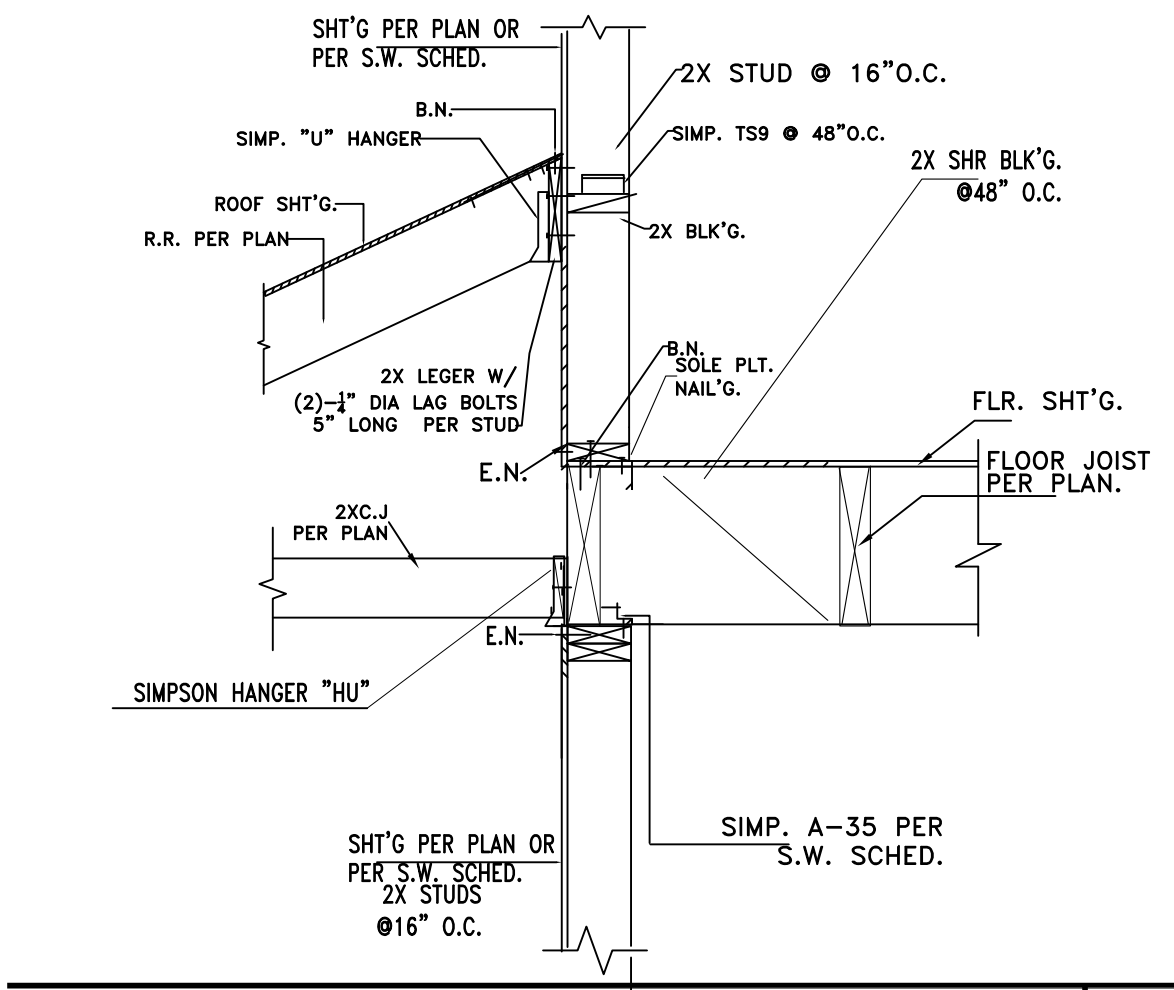
PROJECT:

113 SHARON DR.  
POMONA, CA 91767

DRAWN BY:  
SCALE: NOTED  
CAD FILE:  
PROJECT NO.:  
DATE: "25-25" &

S3





CONSULTANT:  
MESA Enterprise, Inc  
Structural/Consulting  
1304 Corte Madera  
Costa Mesa Ca 92626  
TEL:562-235-4572-  
FAX:562-490-8362.

REVISIONS:

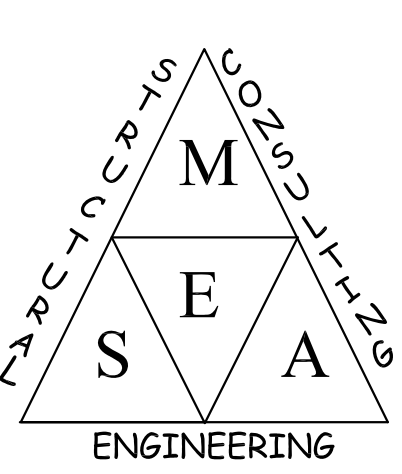
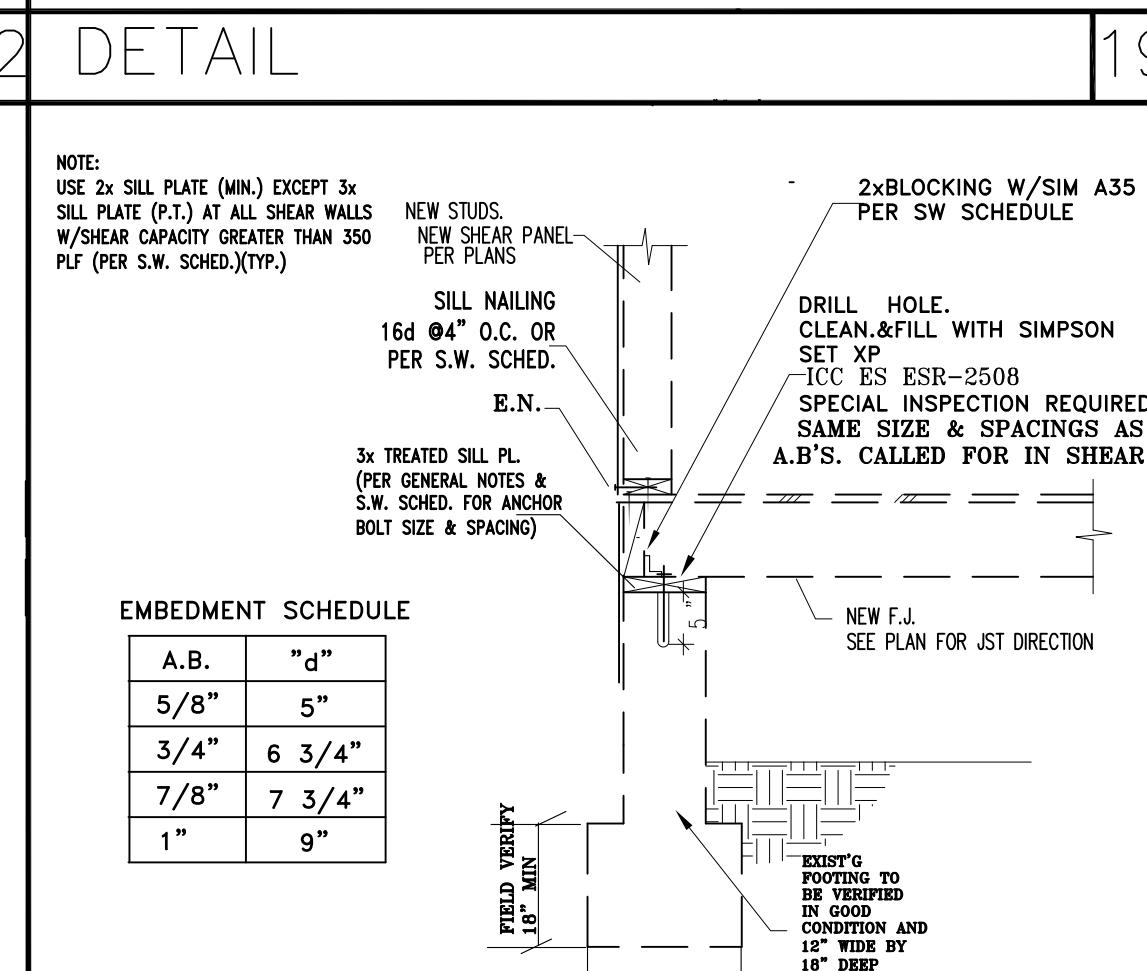
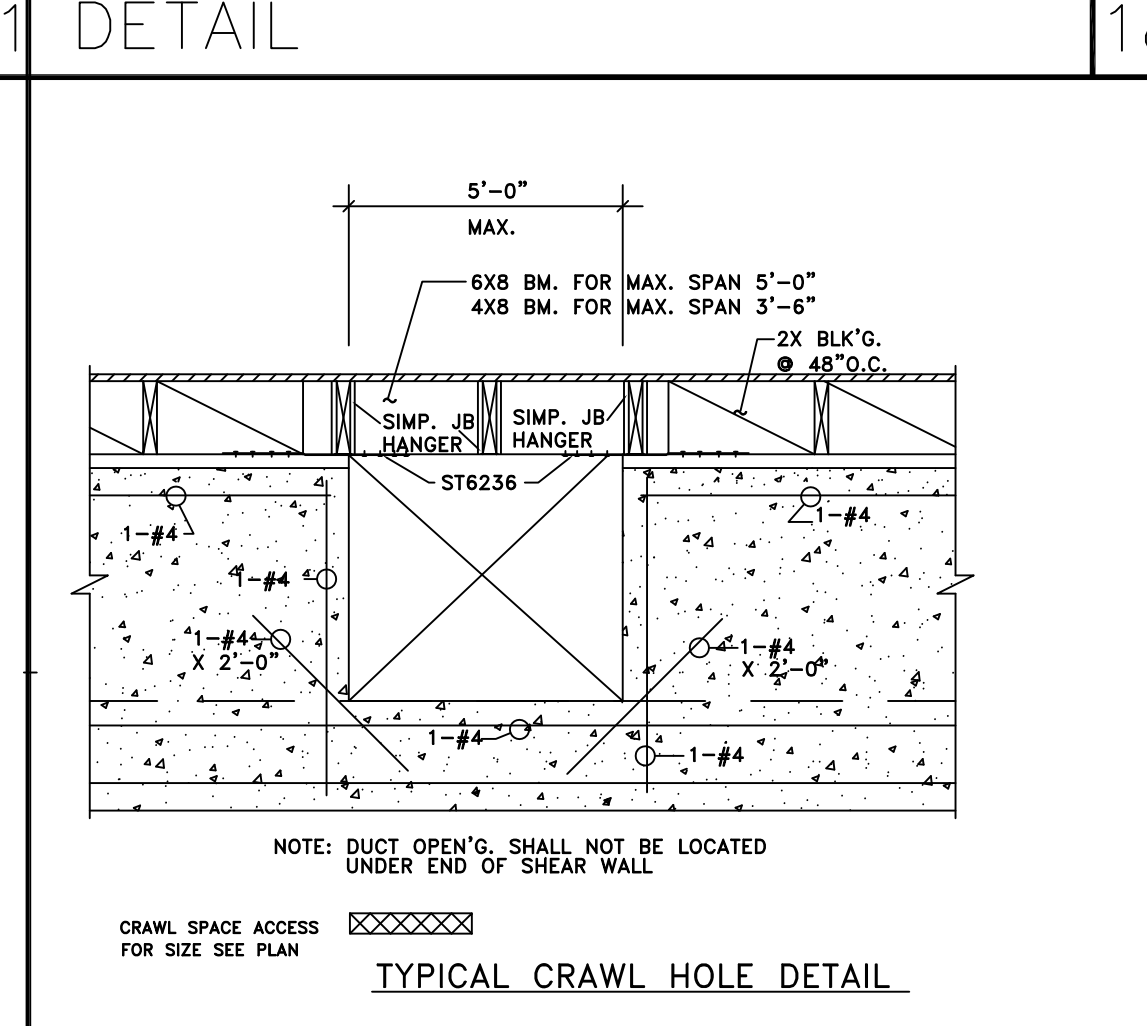
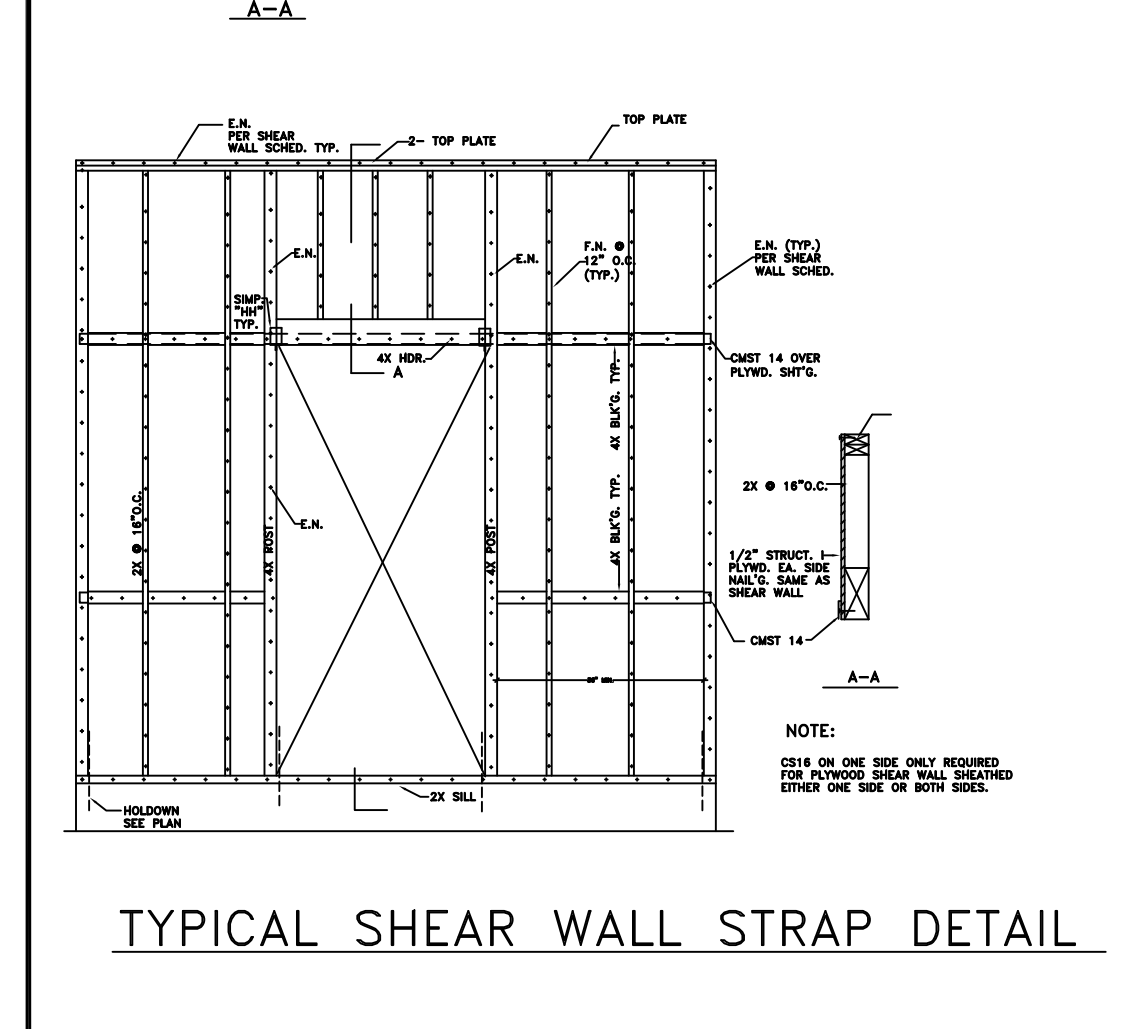
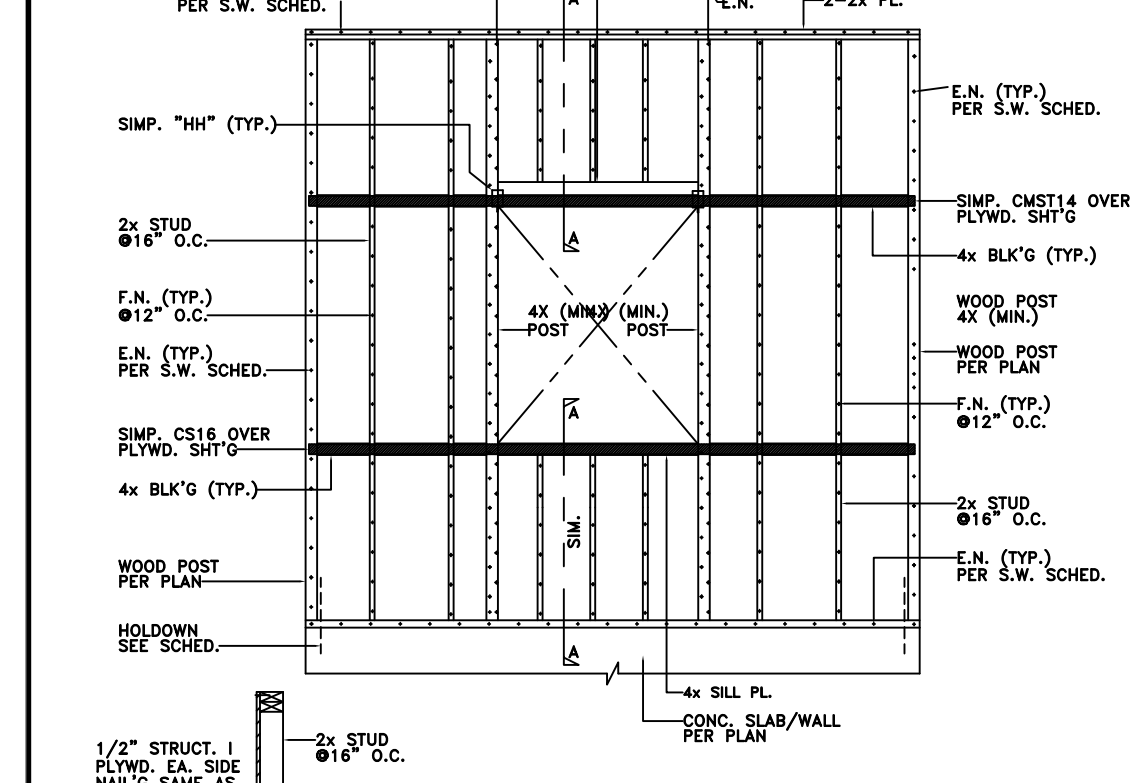
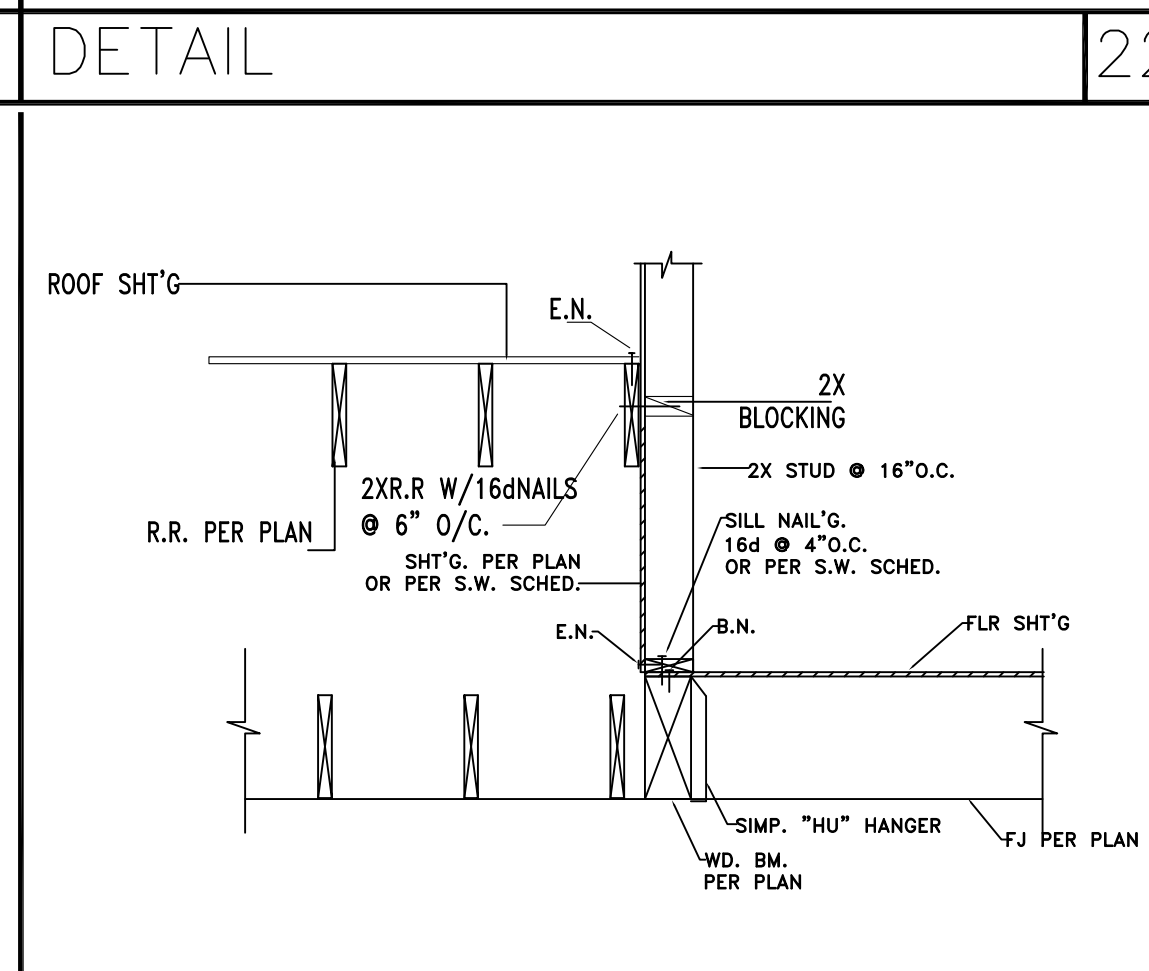
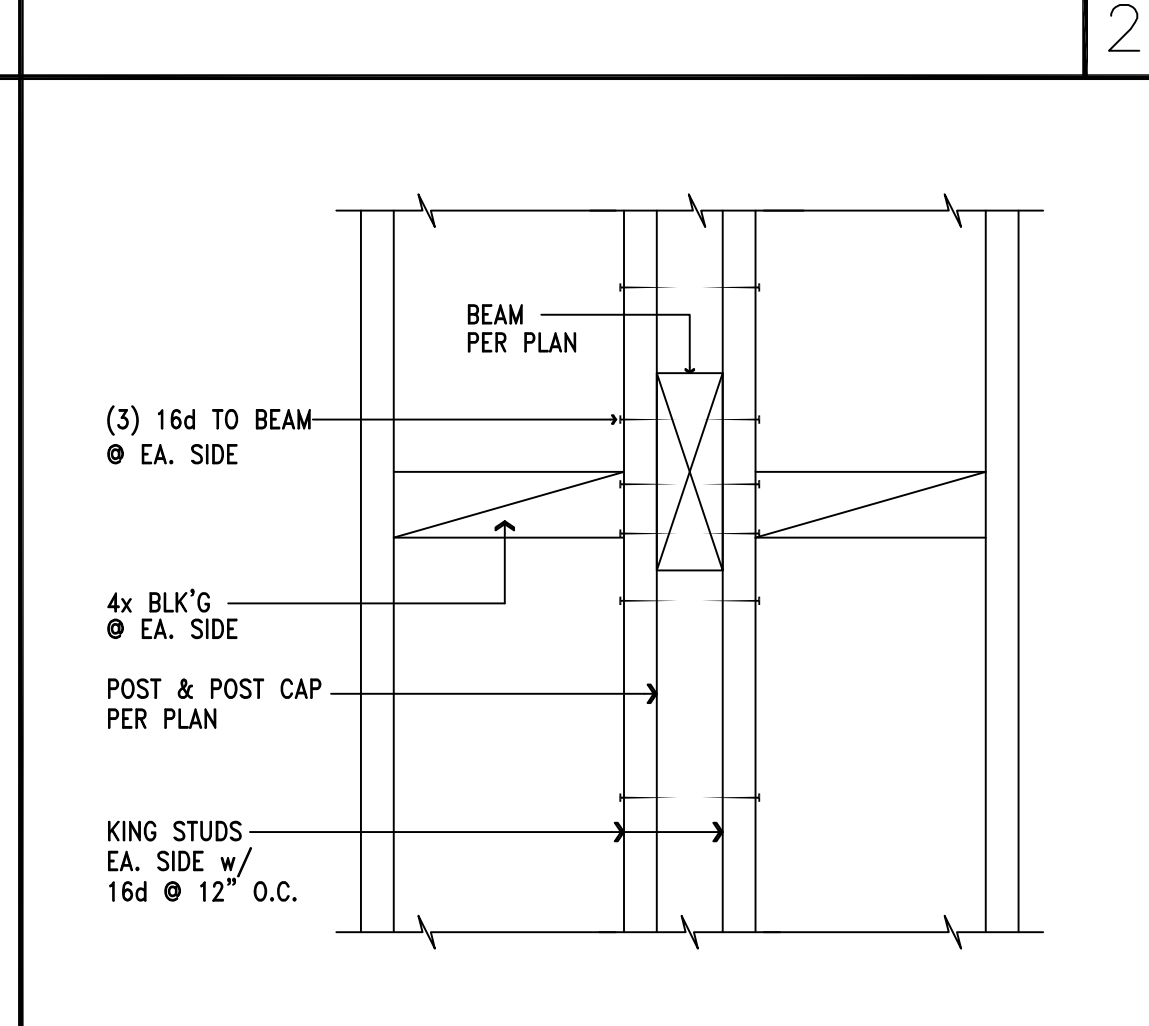
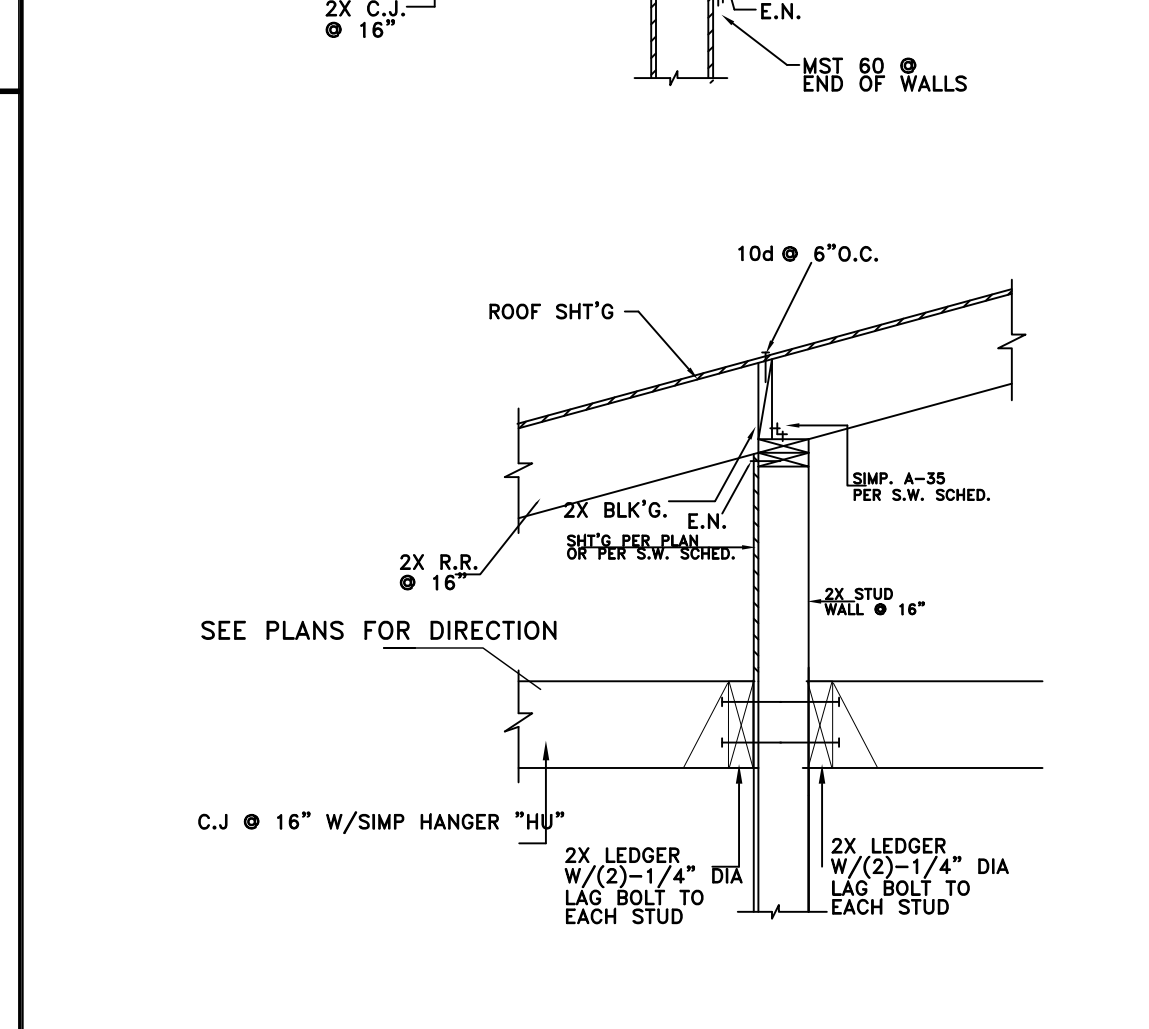
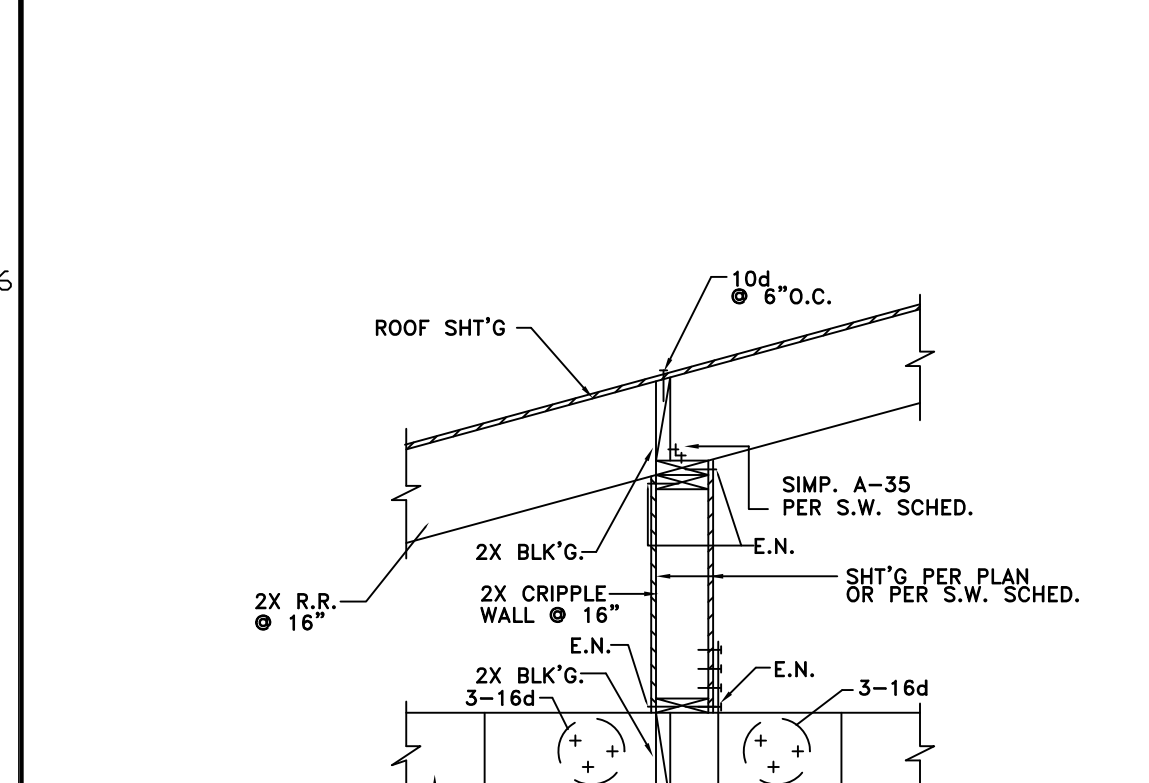
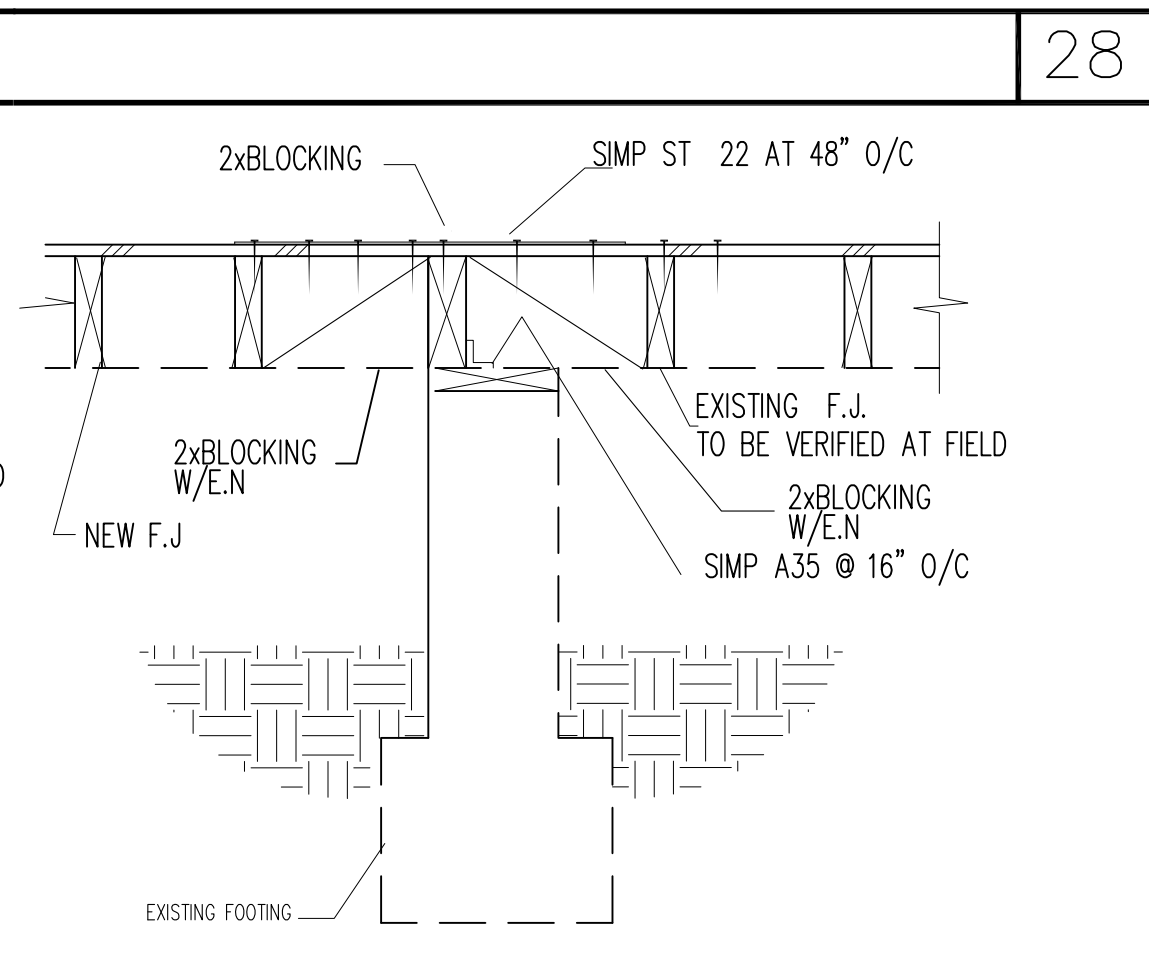
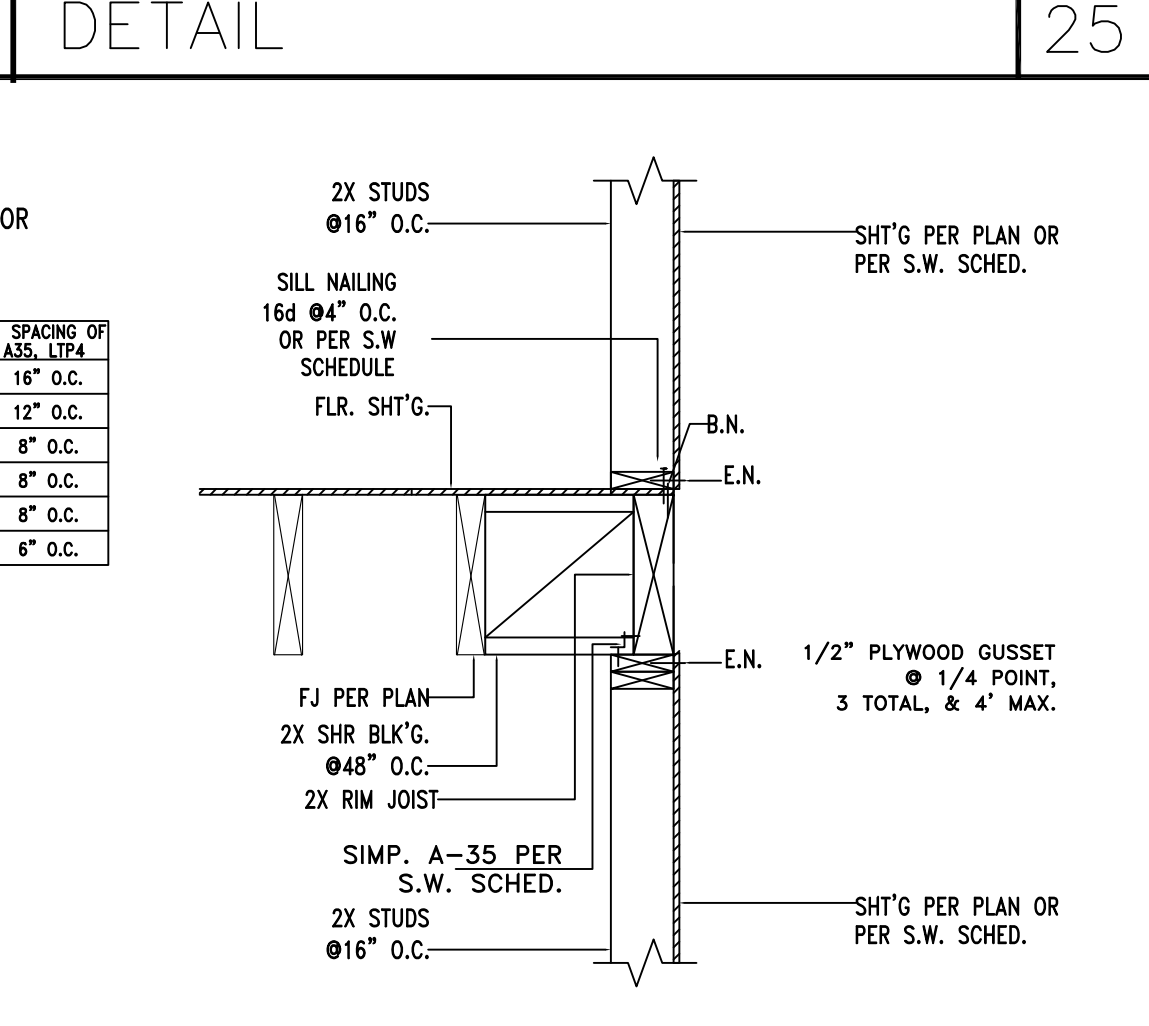
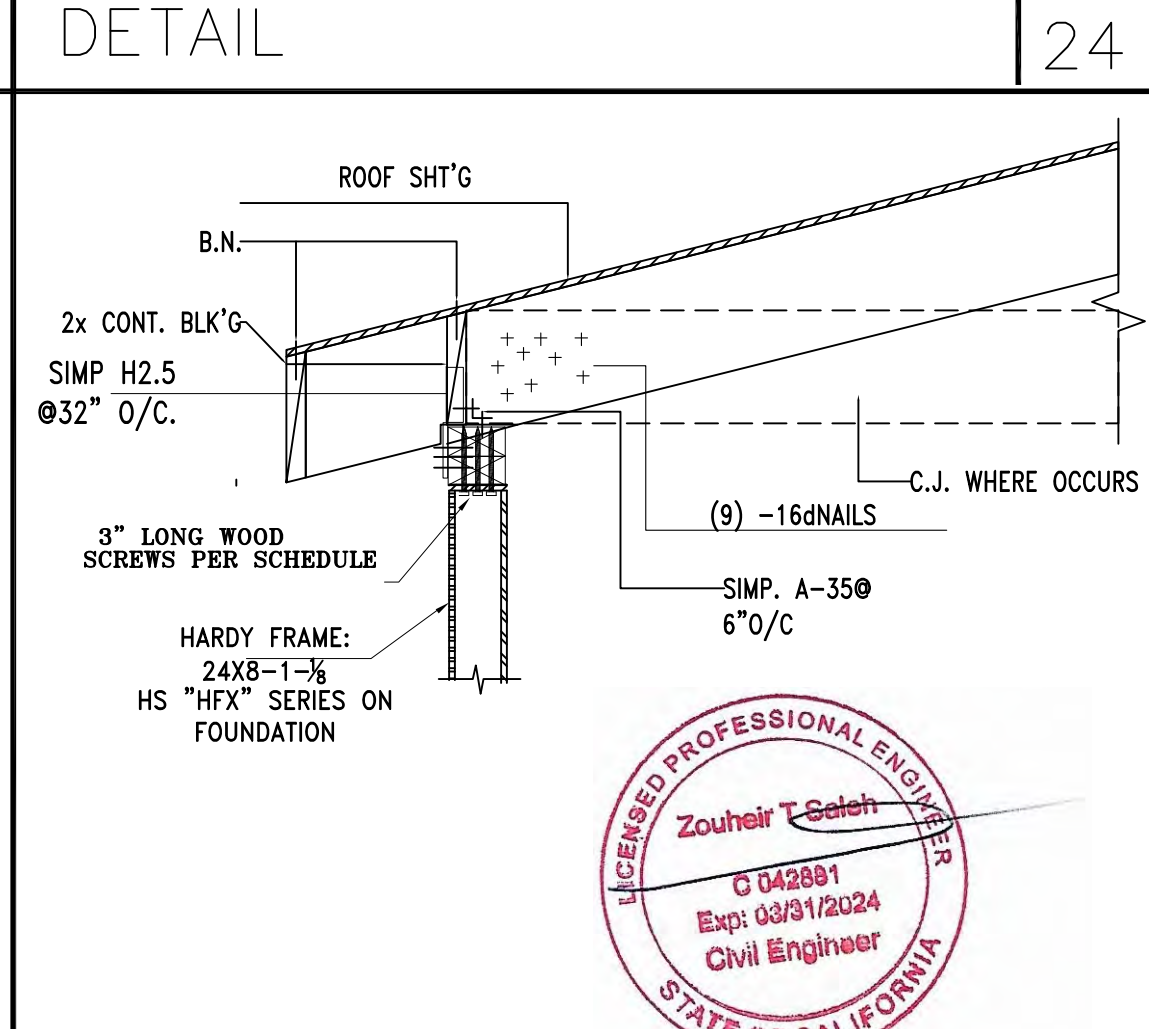
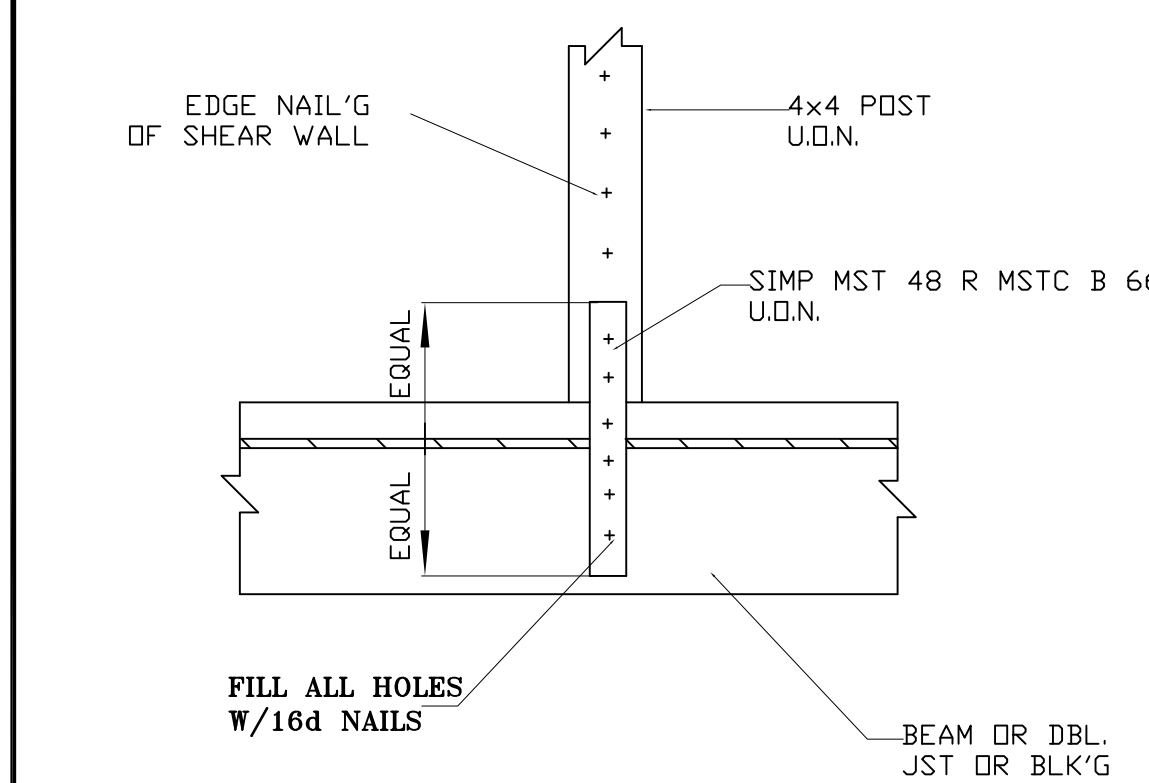
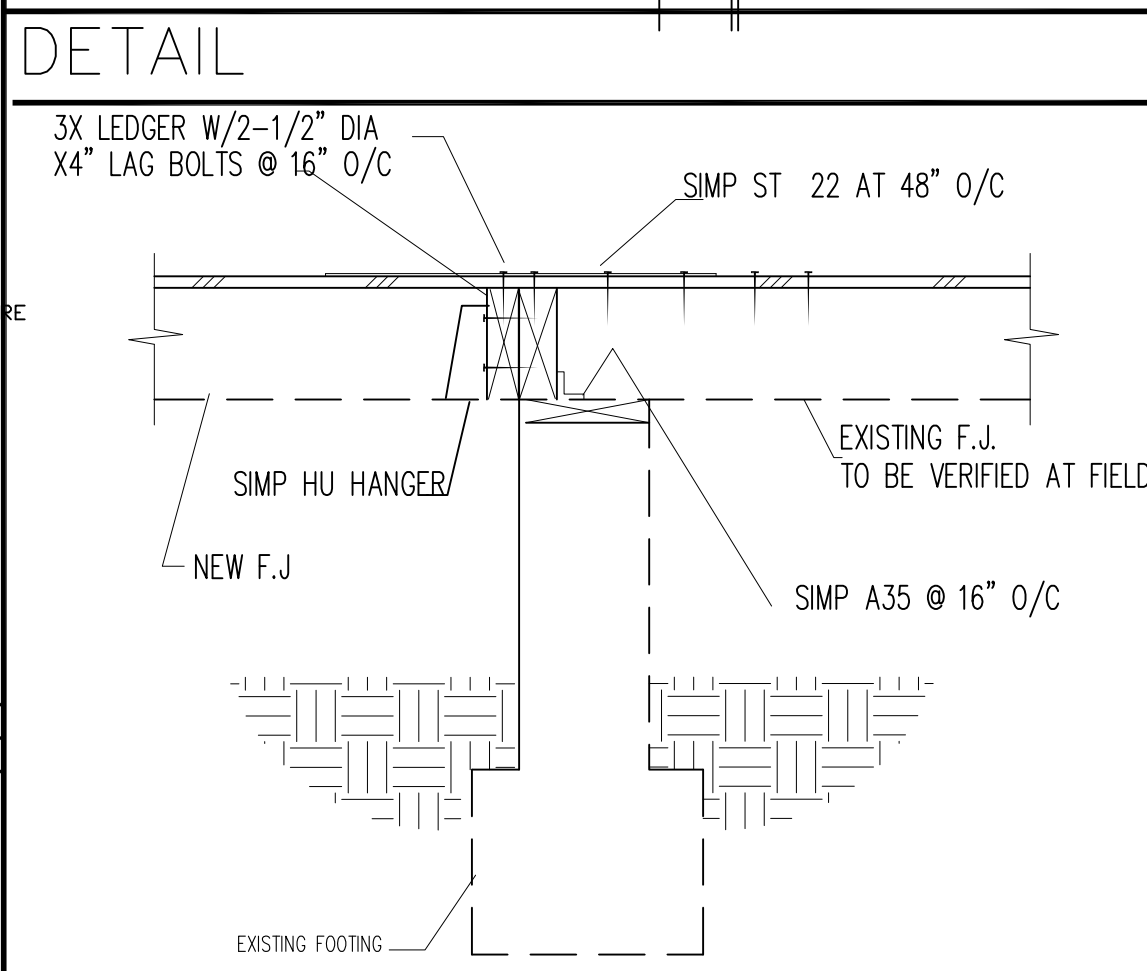
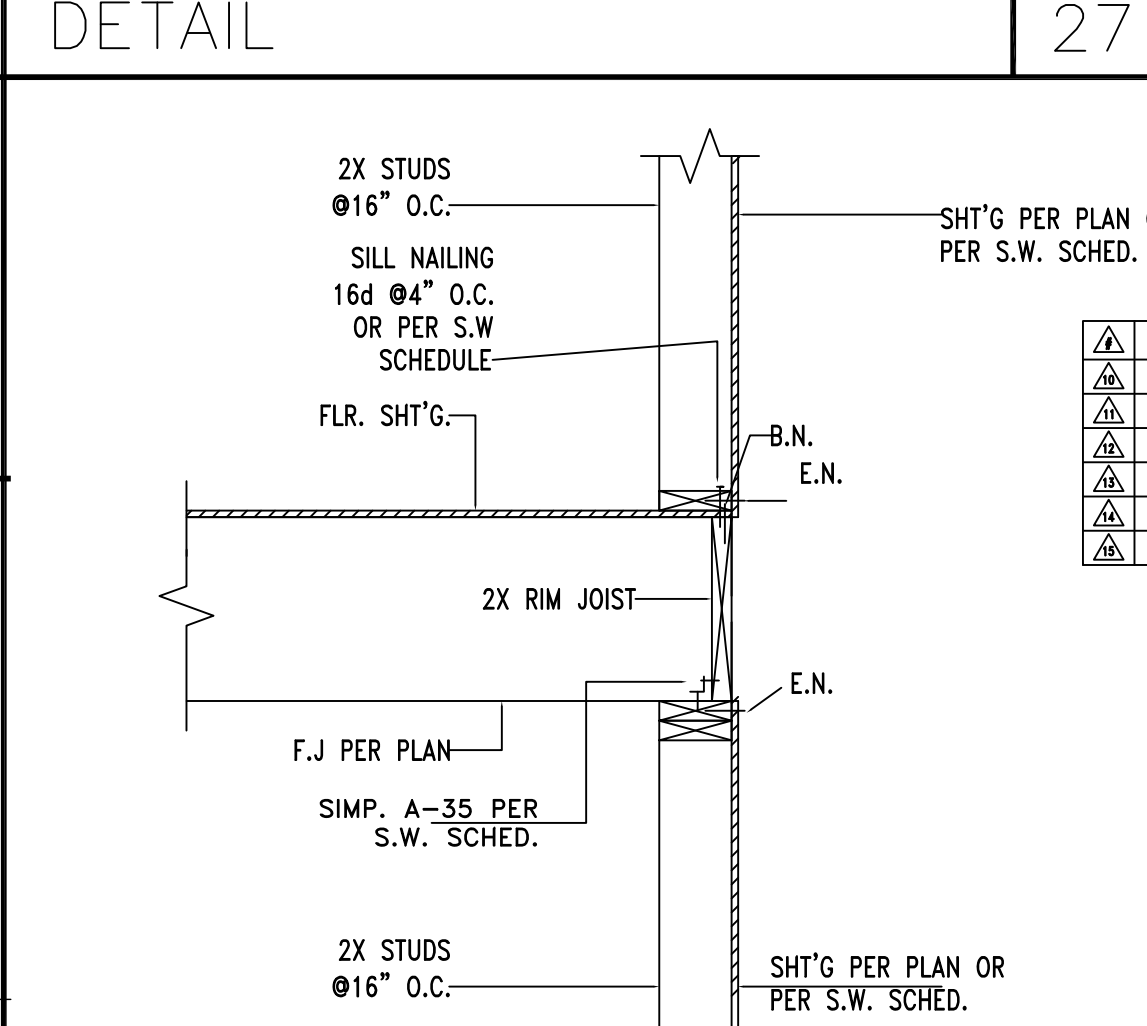
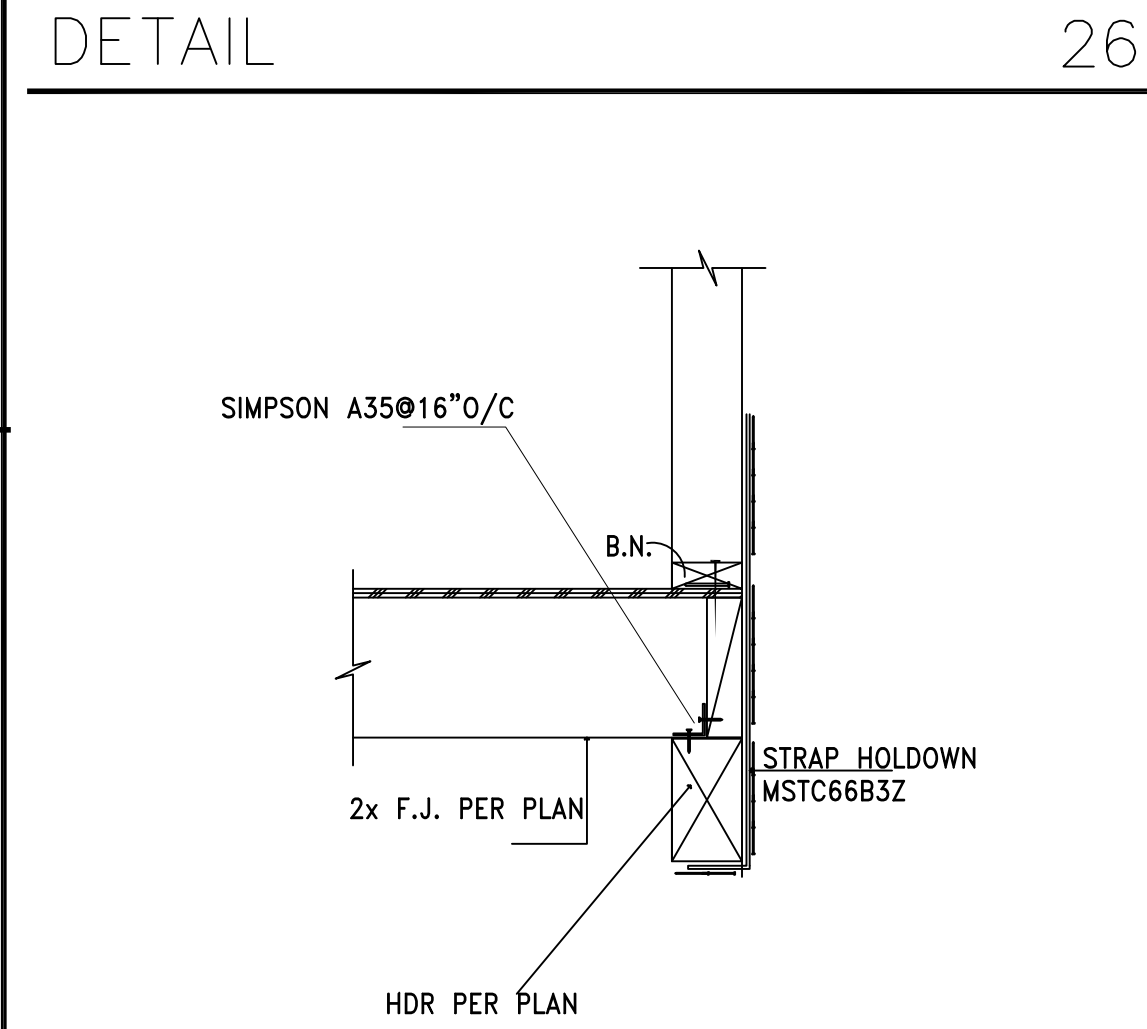
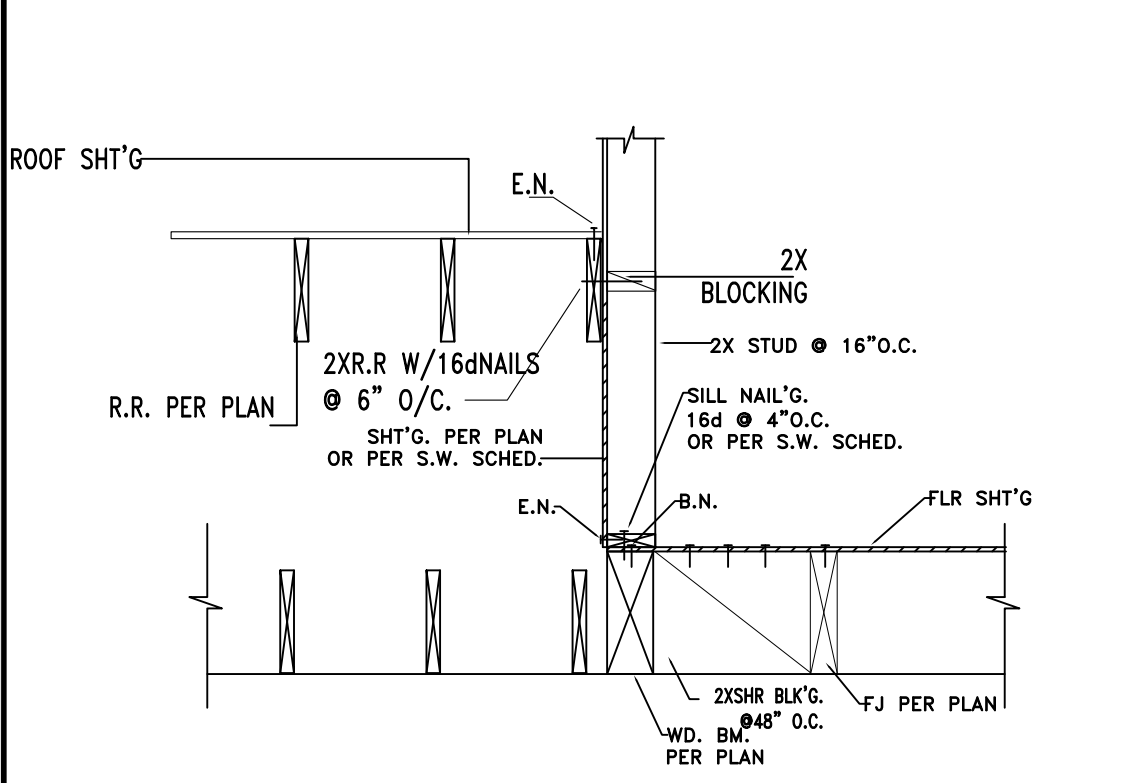
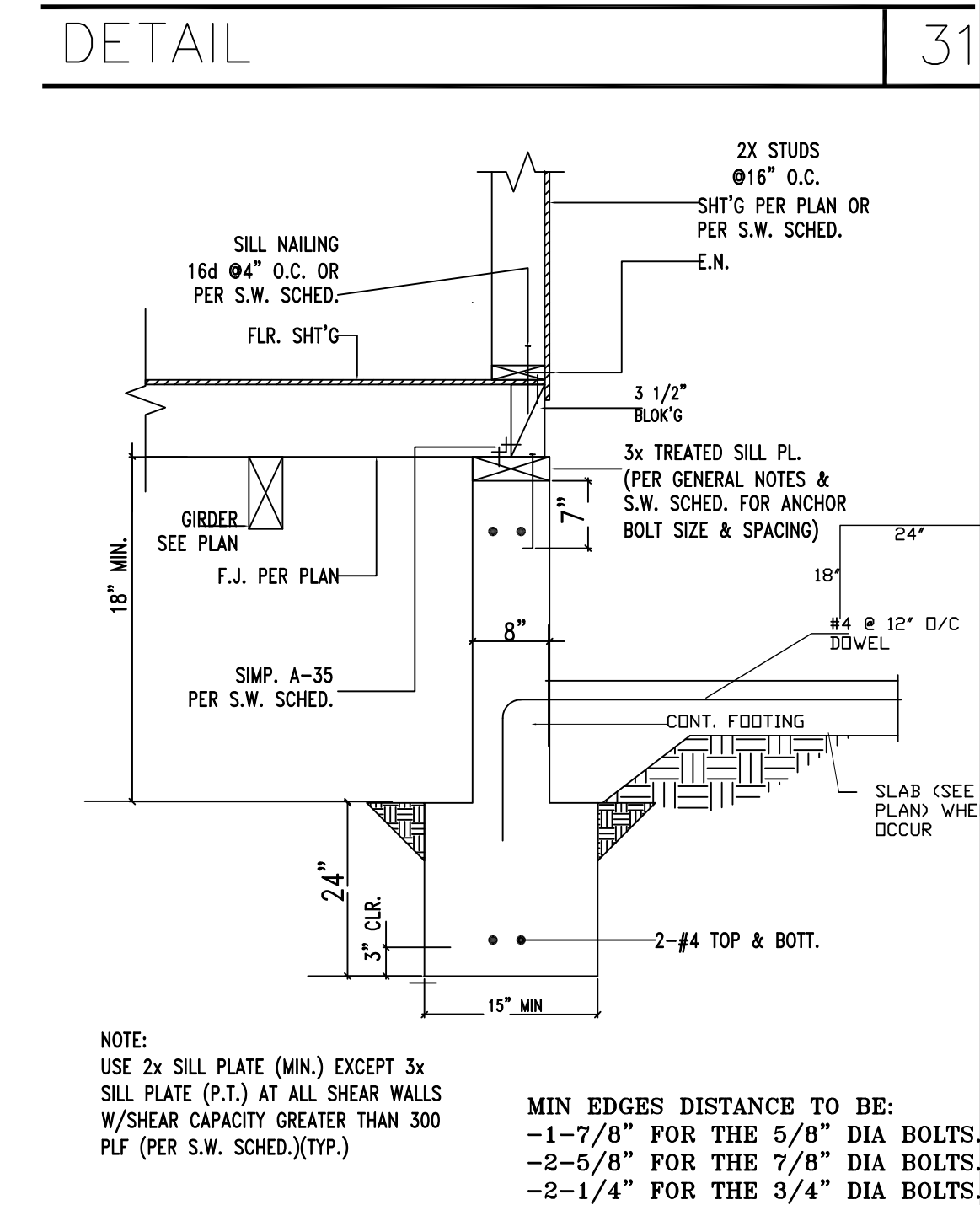
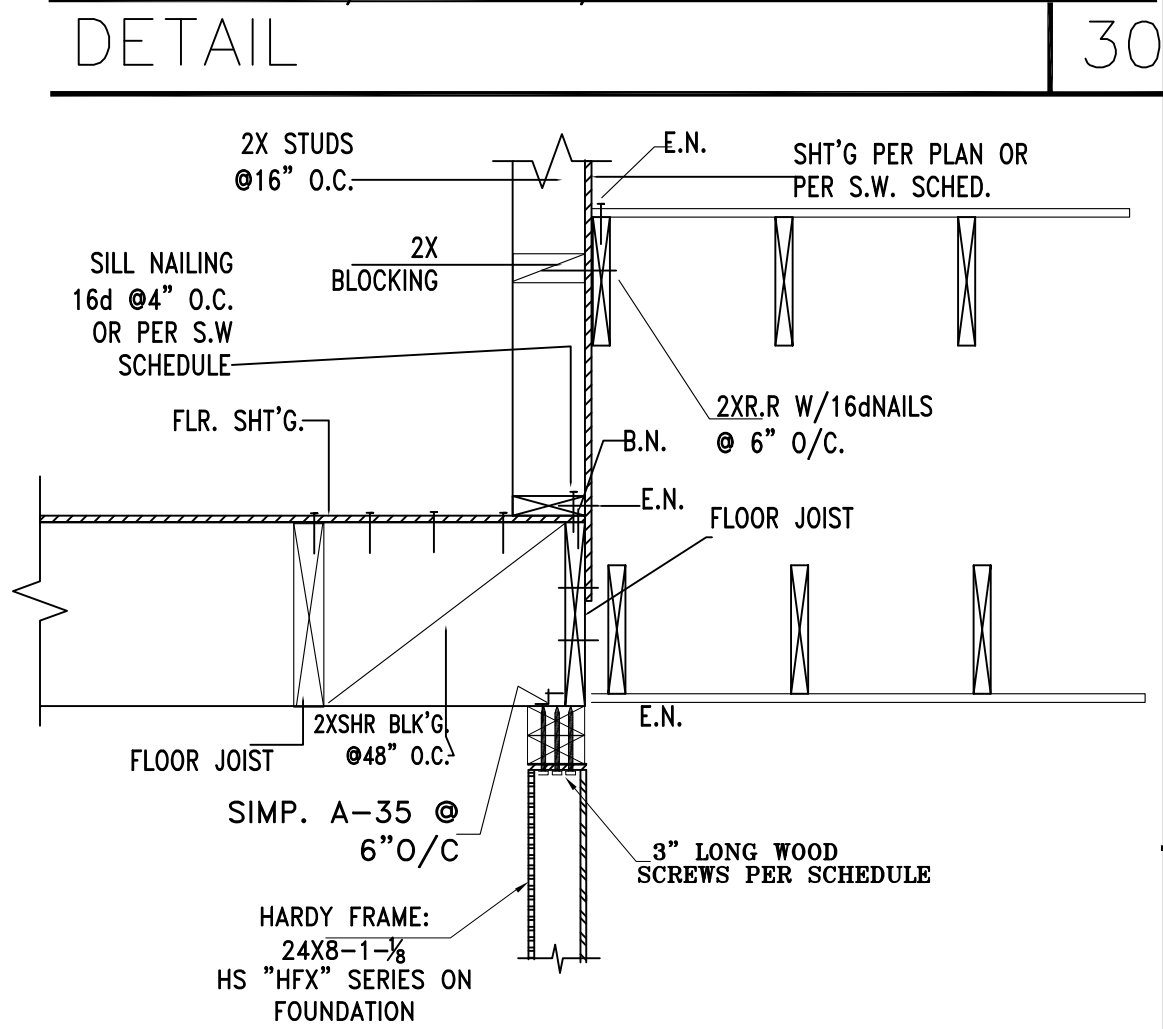
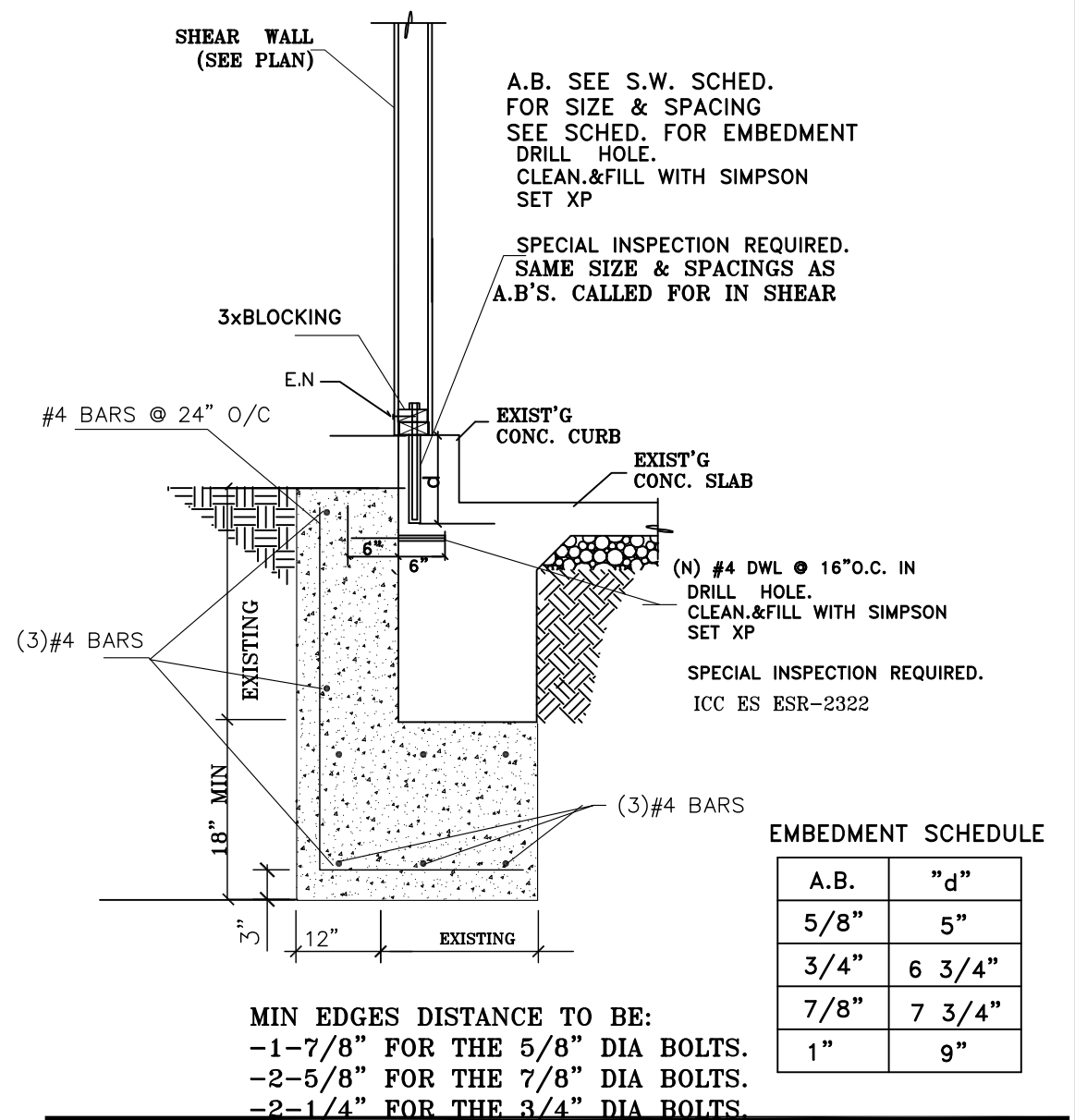

PROJECT:  
113 SHARON DR.  
POMONA, CA 91767

DRAWN BY:  
SCALE: NOTED  
CAD FILE:  
PROJECT NO.:  
DATE: 01-29-2024

D1







CONSULTANT:  
MESA Enterprise, Inc  
Structural/Consulting.  
1304 Corte Madera.  
Costa Mesa, Ca 92626.  
TEL: 562-235-4572-  
FAX: 562-490-8362.

REVISIONS:

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PROJECT:

113 SHARON DR.
POMONA, CA 91767

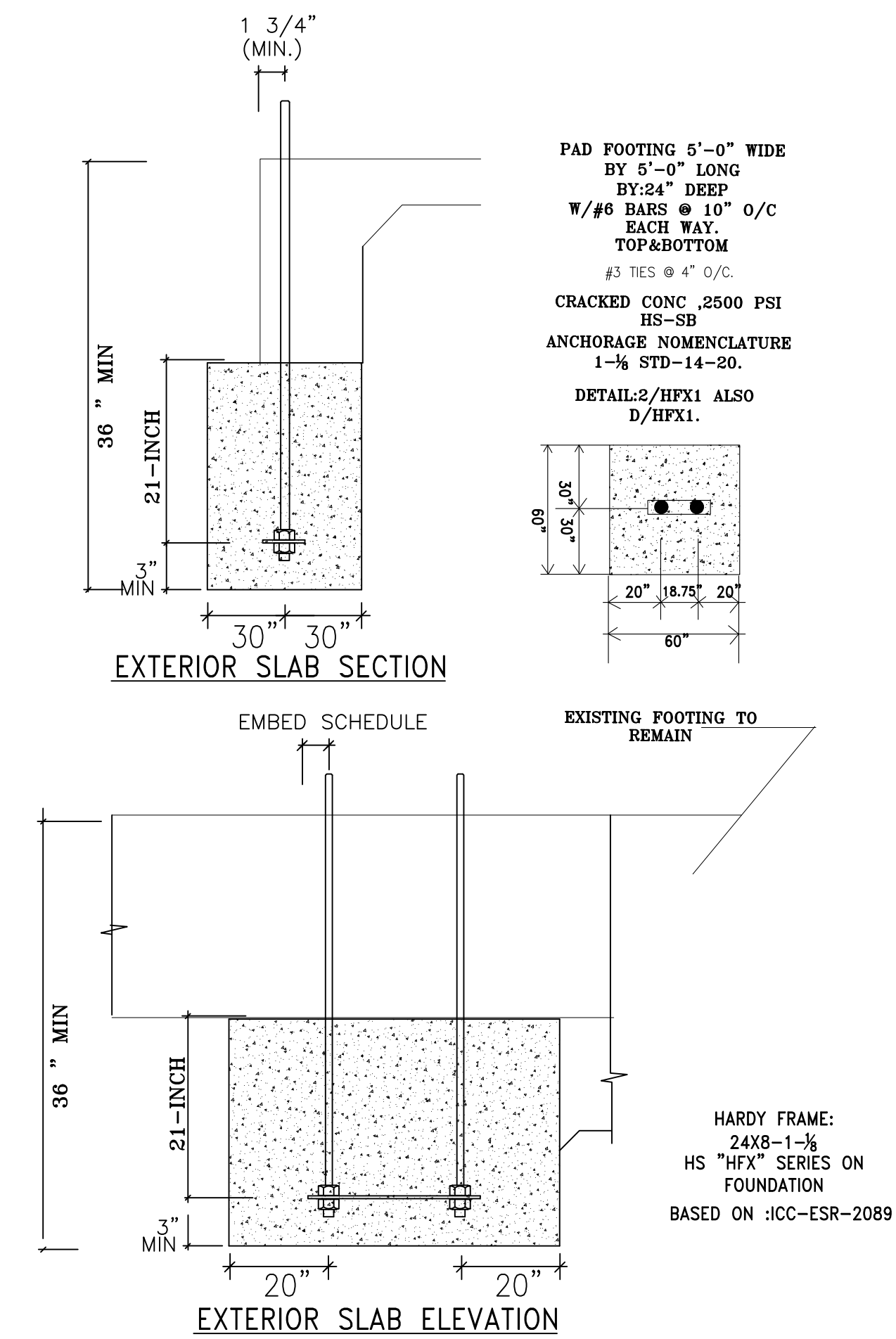
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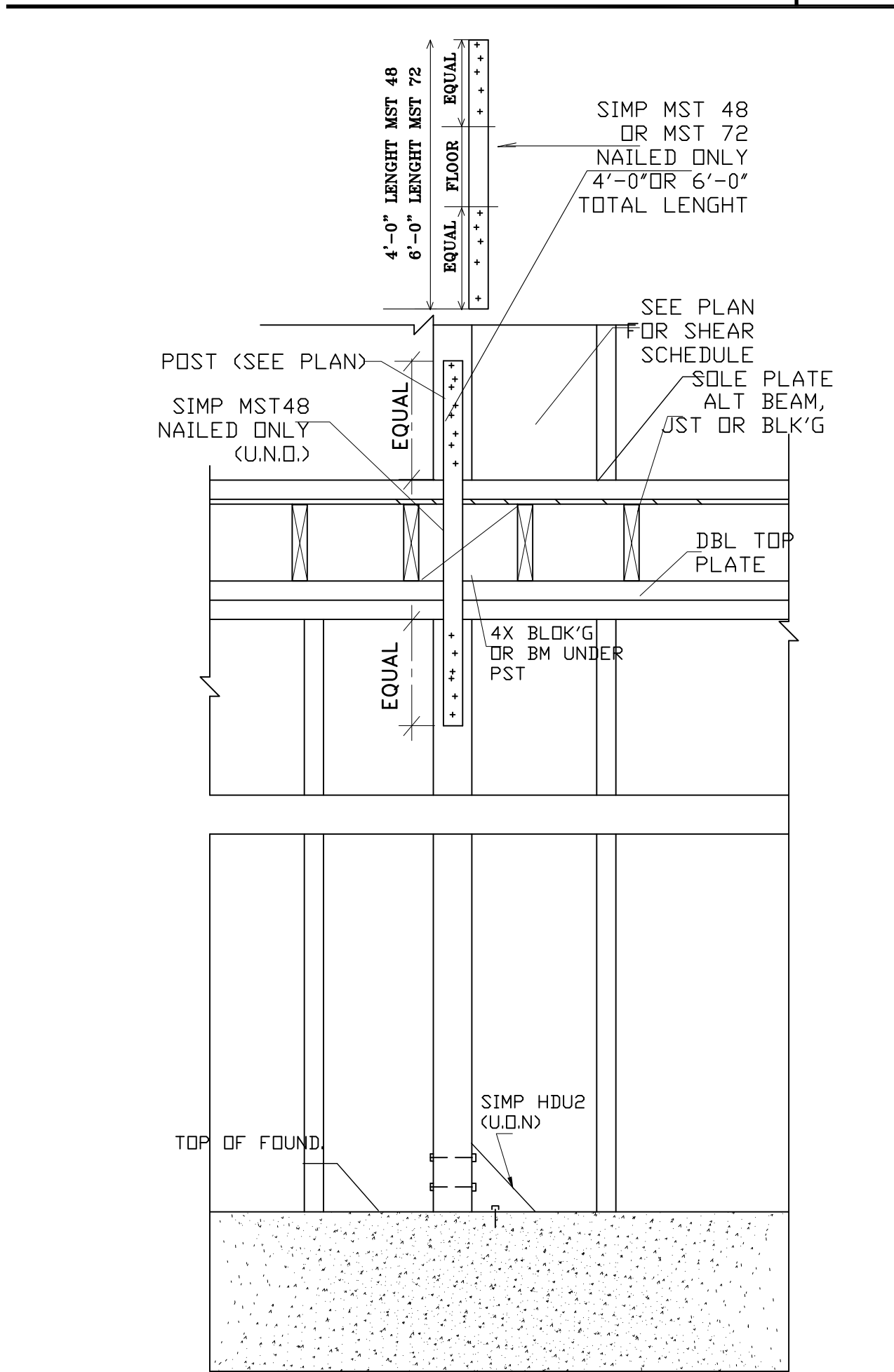
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SHEET 1 OF 1

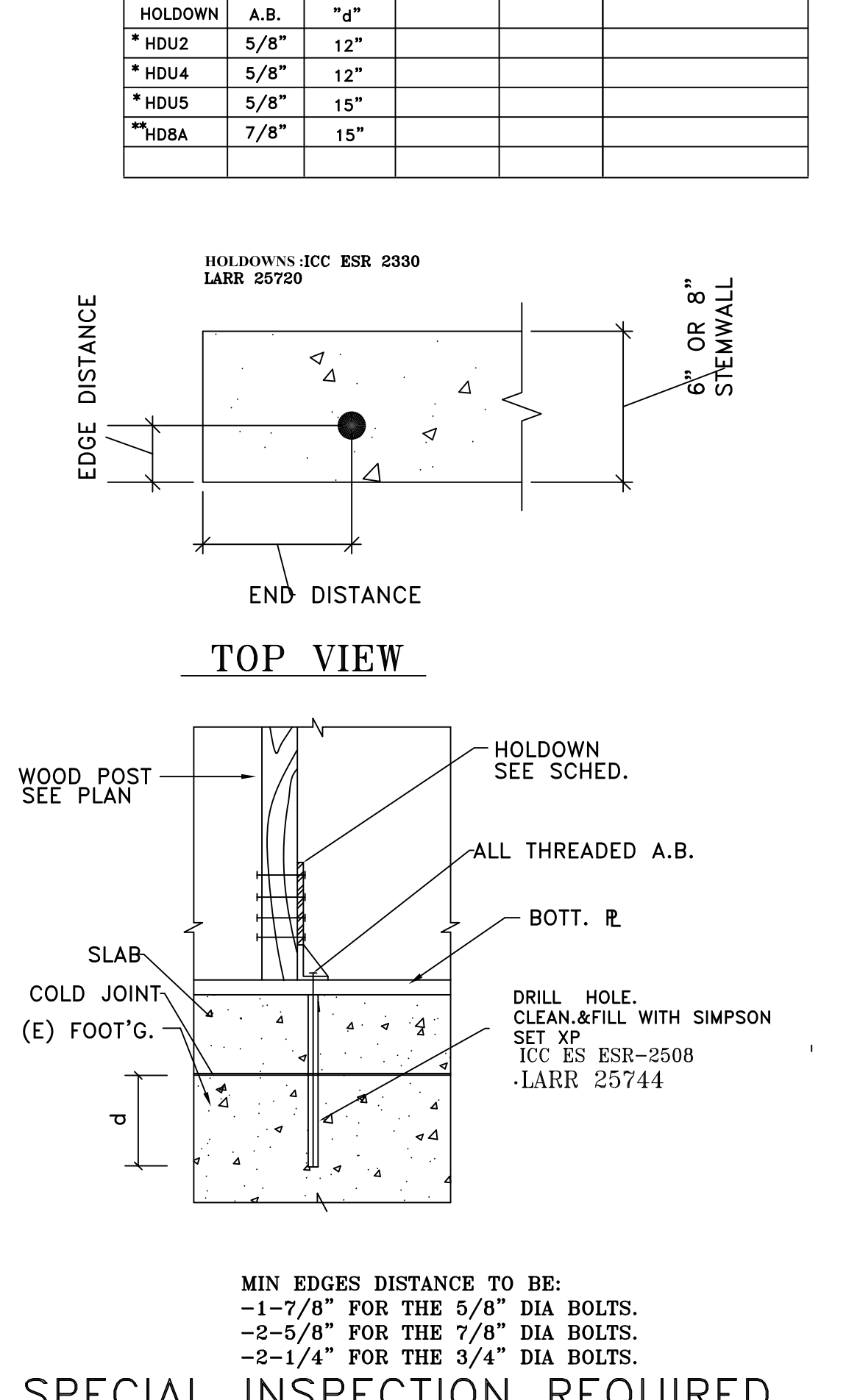




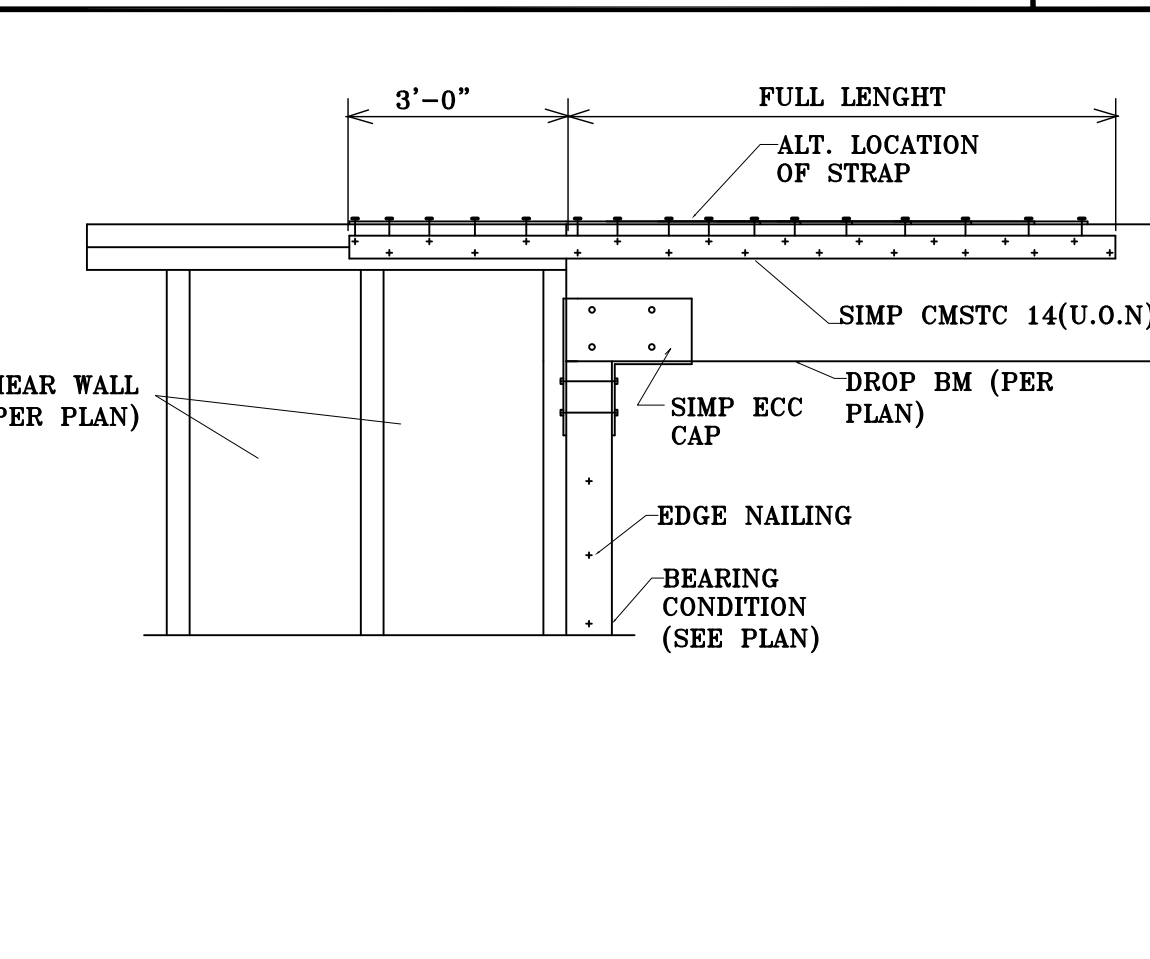
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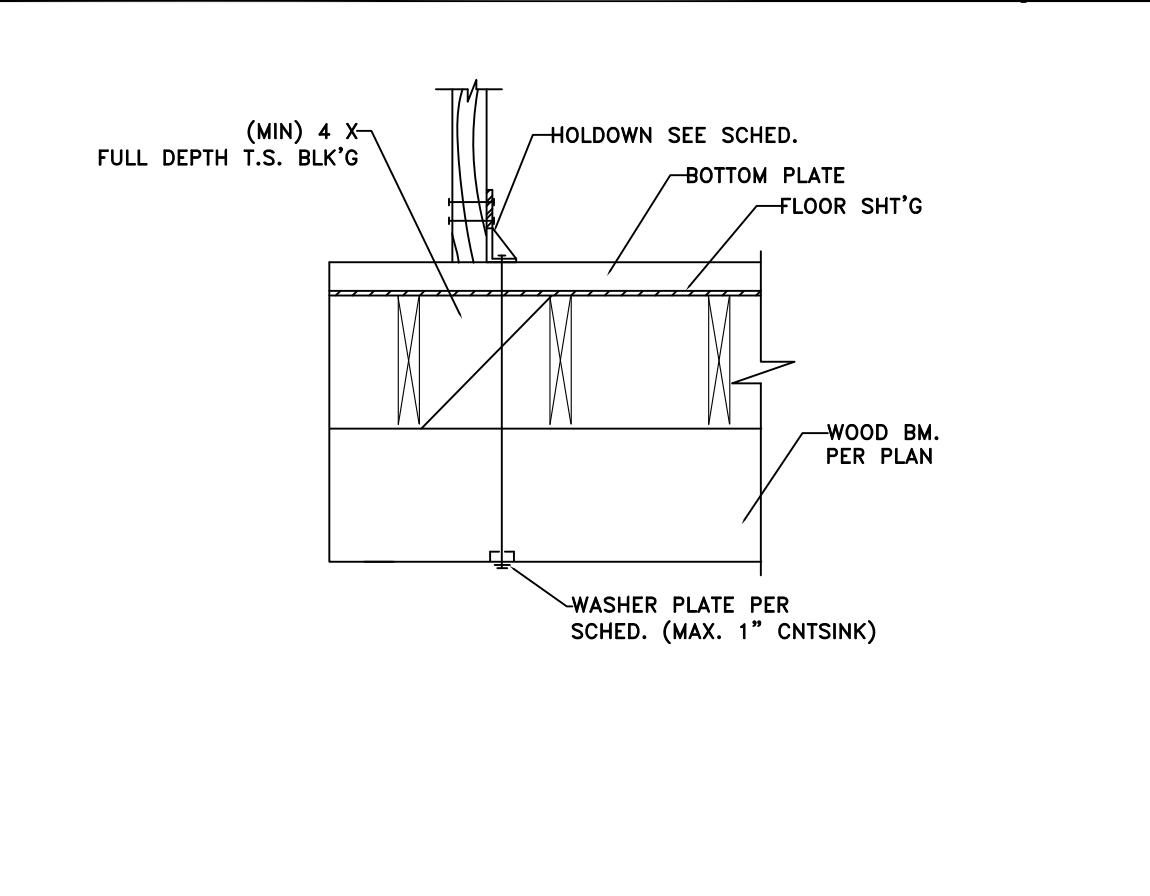
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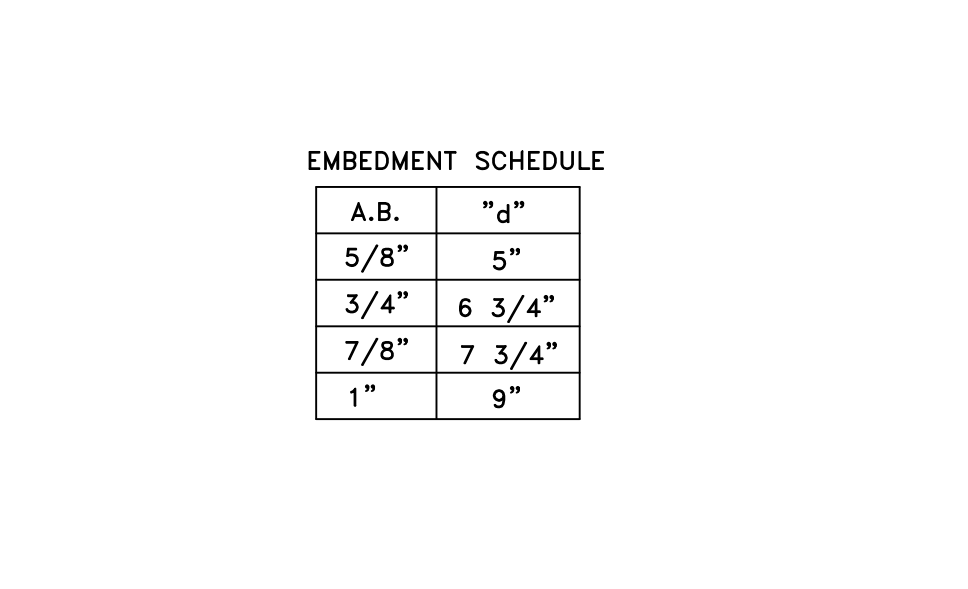
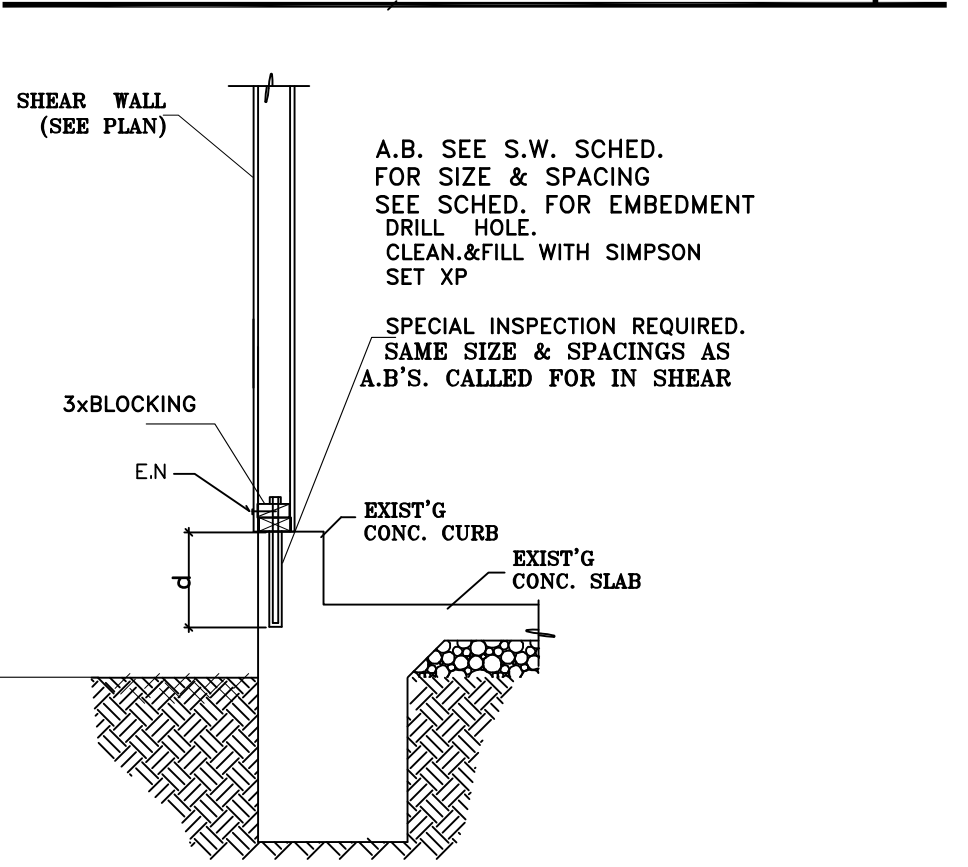
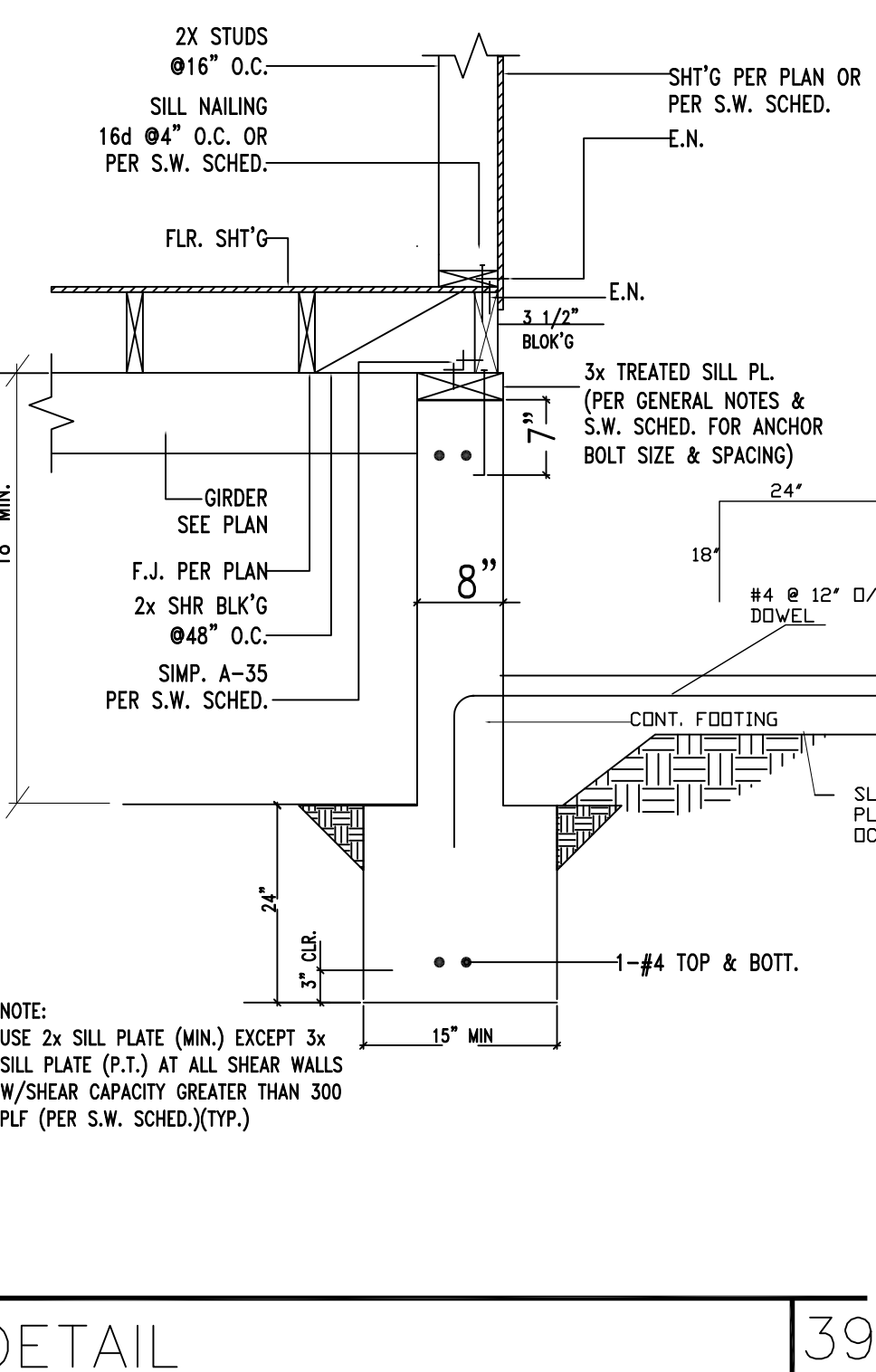
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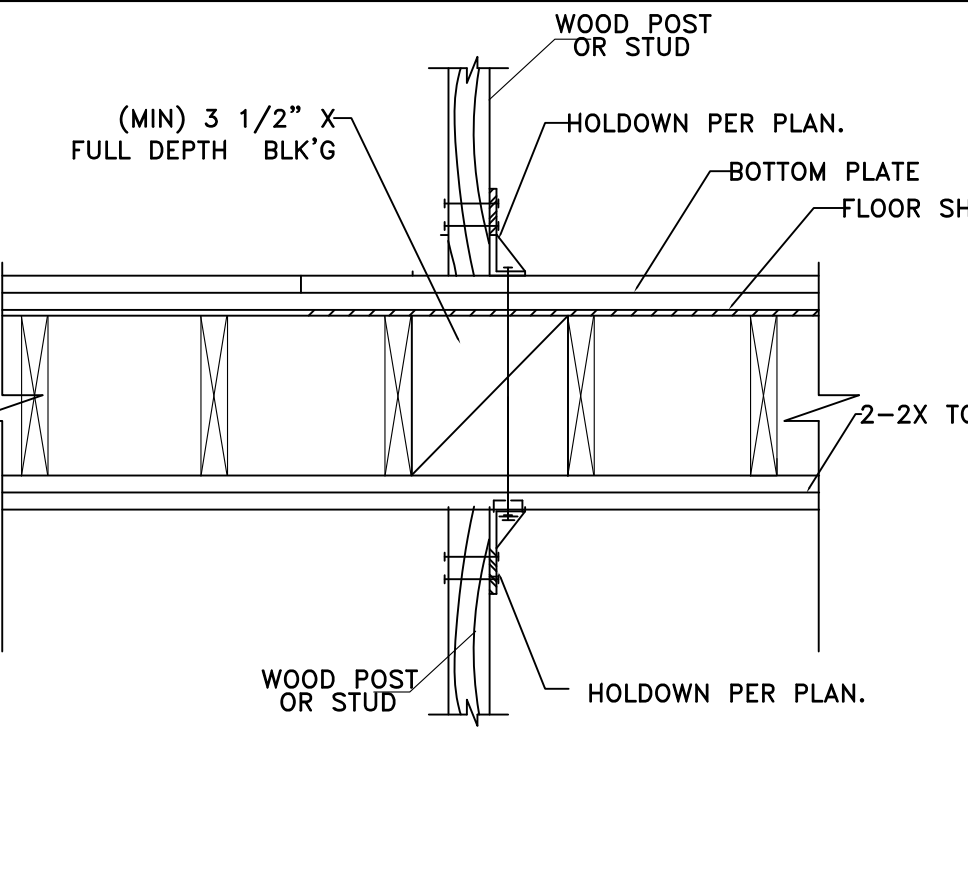
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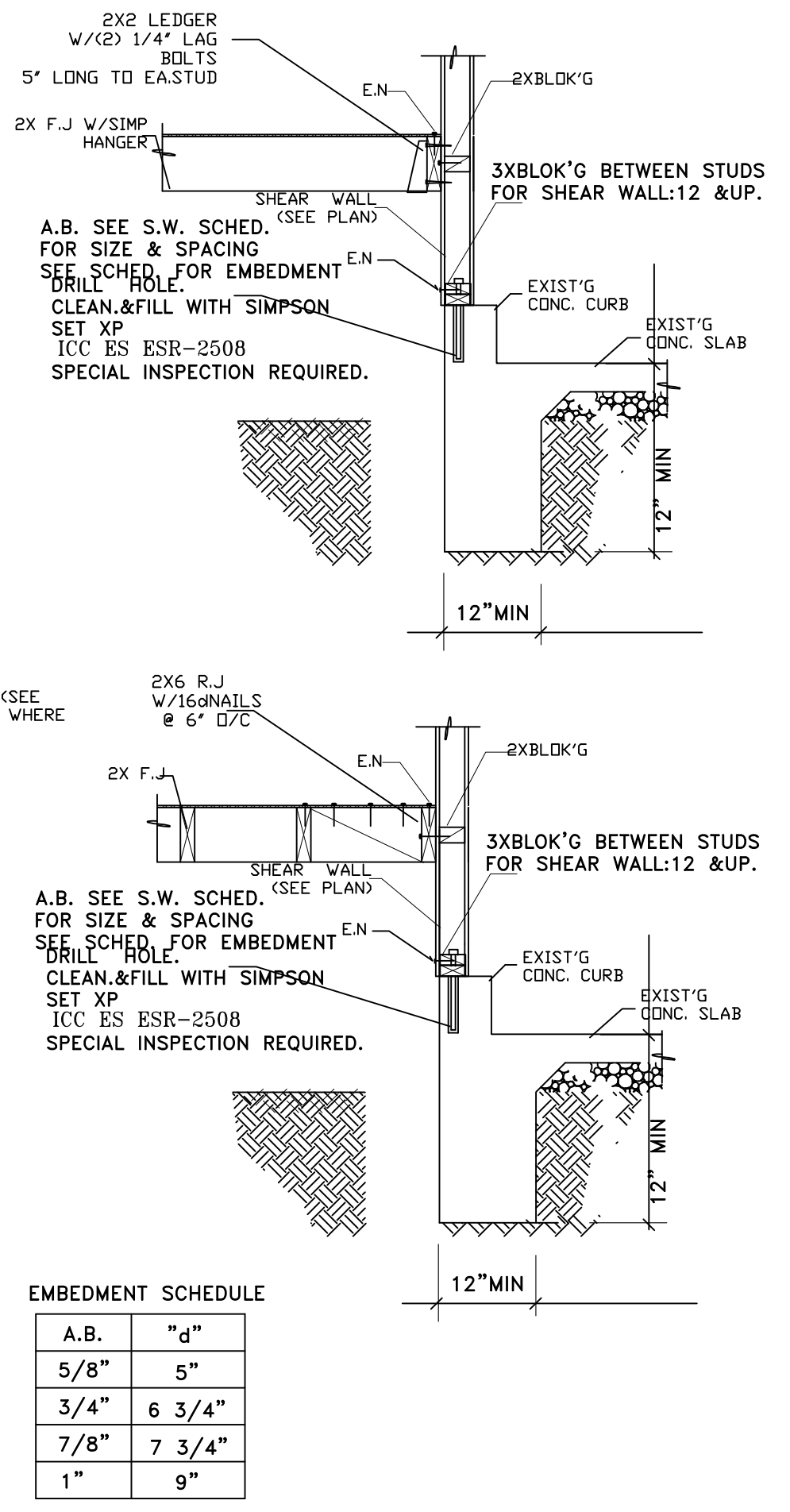
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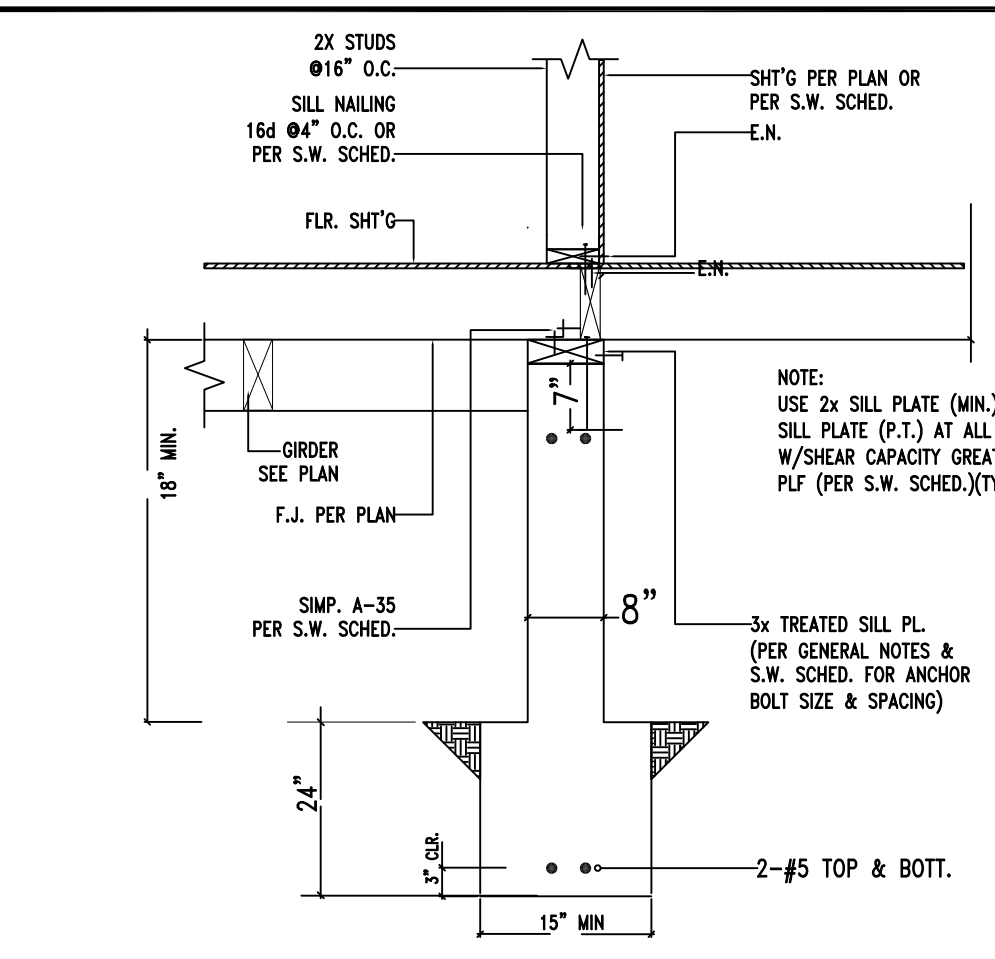
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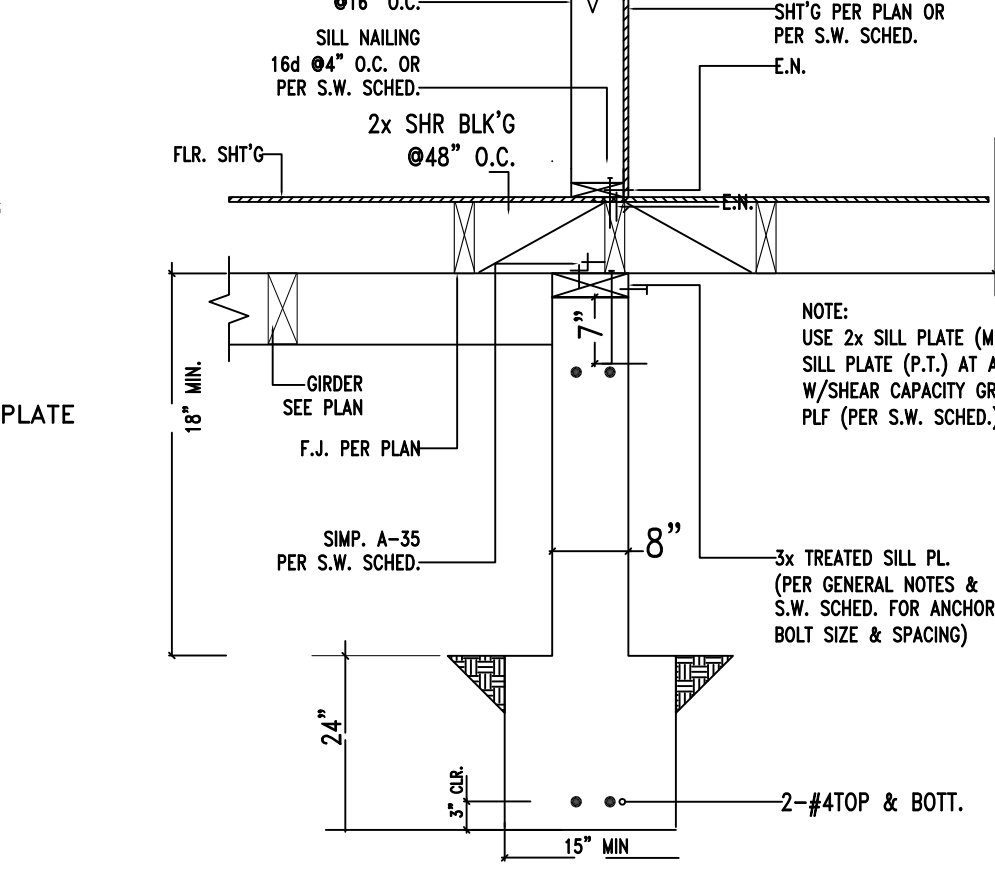
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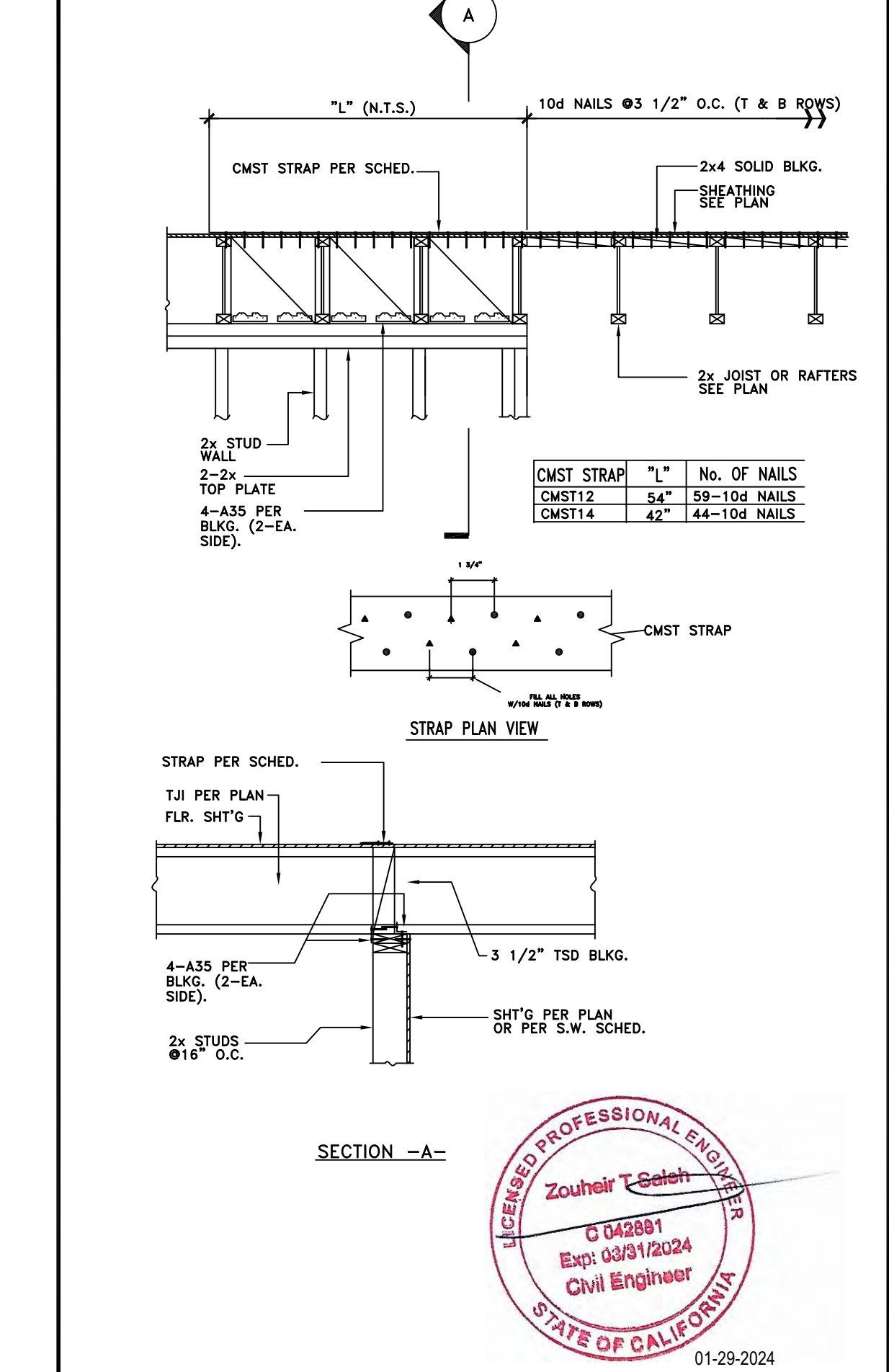
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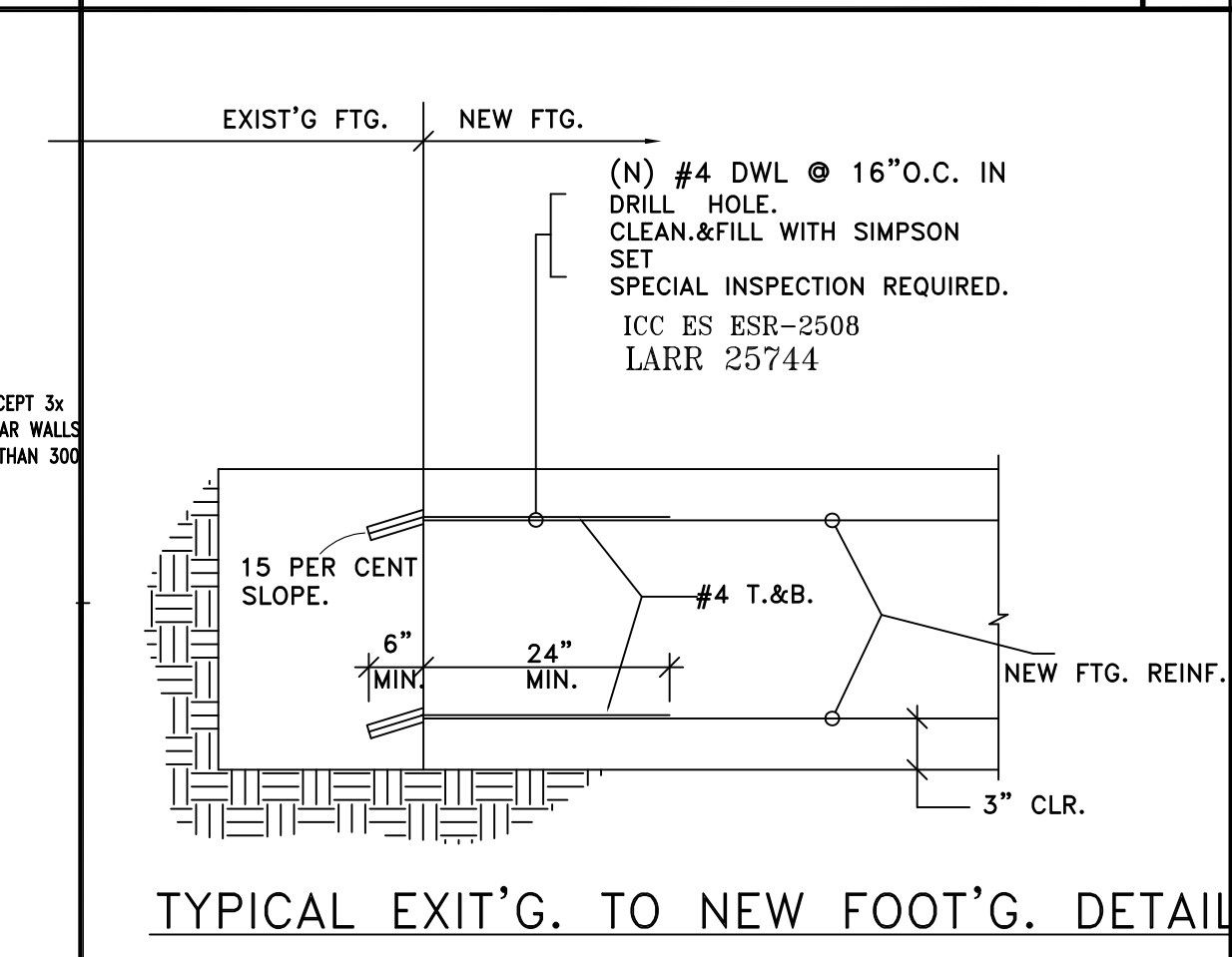
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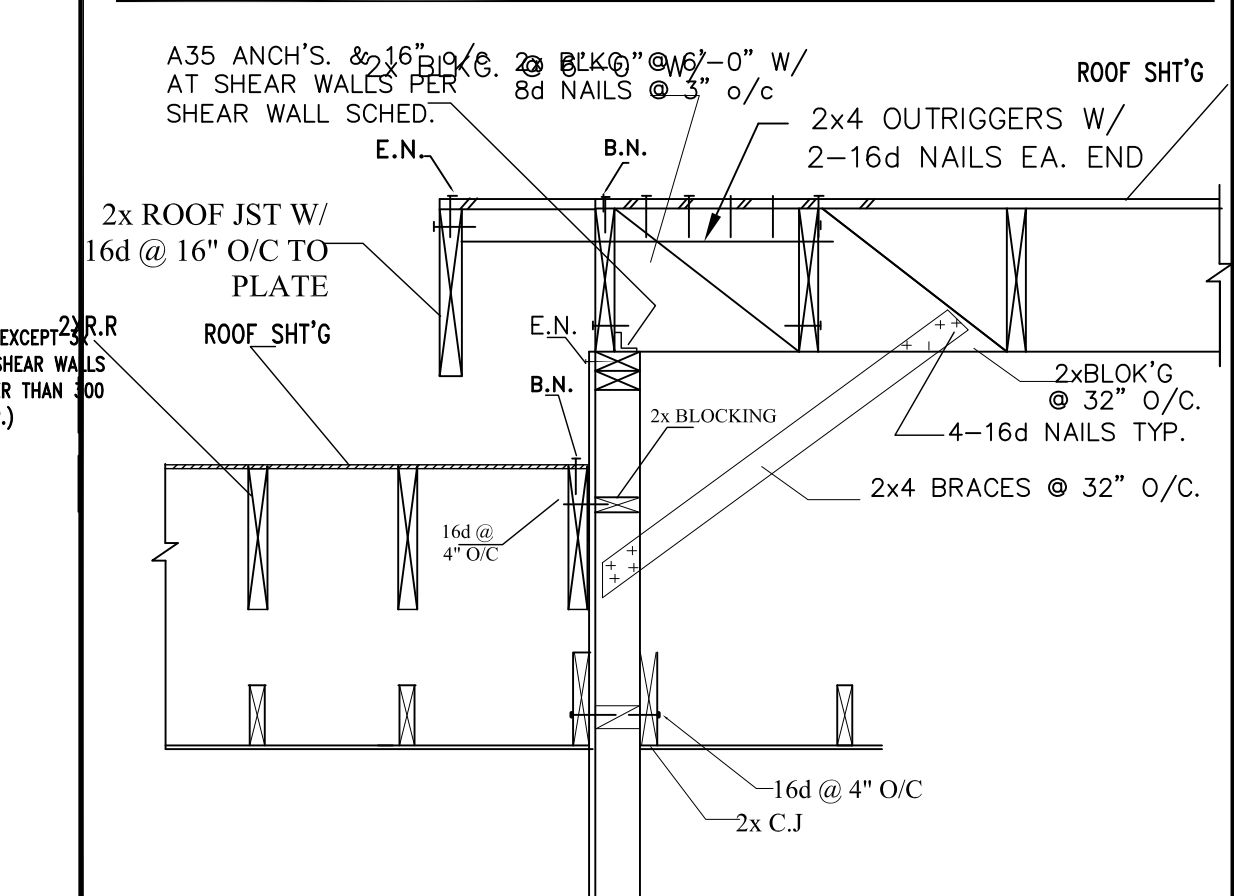
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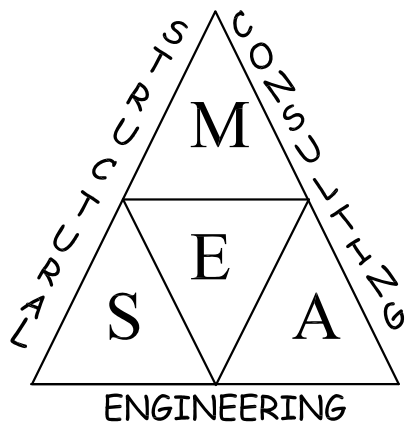
DETAIL 34



DETAIL 35



DETAIL 36



CONSULTANT:  
**MESA Entrepise, Inc**  
Structural/Consulting.  
1304 Corte Madera.  
Costa Mesa Ca 92626.  
TEL: 562-235-4572-  
FAX: 562-490-8362.

REVISIONS:	
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△	
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△	
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PROJECT:  
**113 SHARON DR.**  
**POMONA, CA 91767**

DRAWN BY:  
SCALE:  
CAD FILE:  
PROJECT NO.:  
DATE: 01-29-2024

**D3**

SHEET \_\_\_ OF \_\_\_







BACK TO BACK REINFORCED ANCHORAGE (BB-RA)

Model	Panel Width (in)	Anchorage <sup>1</sup>	Rod Dia (in)	Rod <sup>2,3</sup> Grade	BB-RA			Stirrups <sup>9</sup> (in)	Shear <sup>7</sup> Ties
					le <sup>4</sup> (in)	Ca <sub>1</sub> <sup>5</sup> (in)	Ca <sub>2</sub> <sup>6</sup> (in)		
HFX-9x	9	1-1/8-STD-BB-RA	1-1/8	STD	15	19-3/4		8 - # 4	# 3 (min) @ 3-3/4" OC
HFX-12x	12	1-1/8-STD-BB-RA		STD	23			20-5/8	11
		1-1/8-HS-BB-RA		HS					
HFX-15x	15	1-1/8-STD-BB-RA		STD				14 - # 4	# 4 (min) @ 4" OC
		1-1/8-HS-BB-RA		HS					
HFX-18x	18	1-1/8-STD-BB-RA		STD				15 - # 4	
HFX-21x	21	1-1/8-STD-BB-RA		HS					
		1-1/8-HS-BB-RA		STD				16 - # 4	
HFX-24x	24	1-1/8-STD-BB-RA	HS						
		1-1/8-HS-BB-RA	STD				18 - # 4		

BACK TO BACK REINFORCED ANCHORAGE NOMENCLATURE

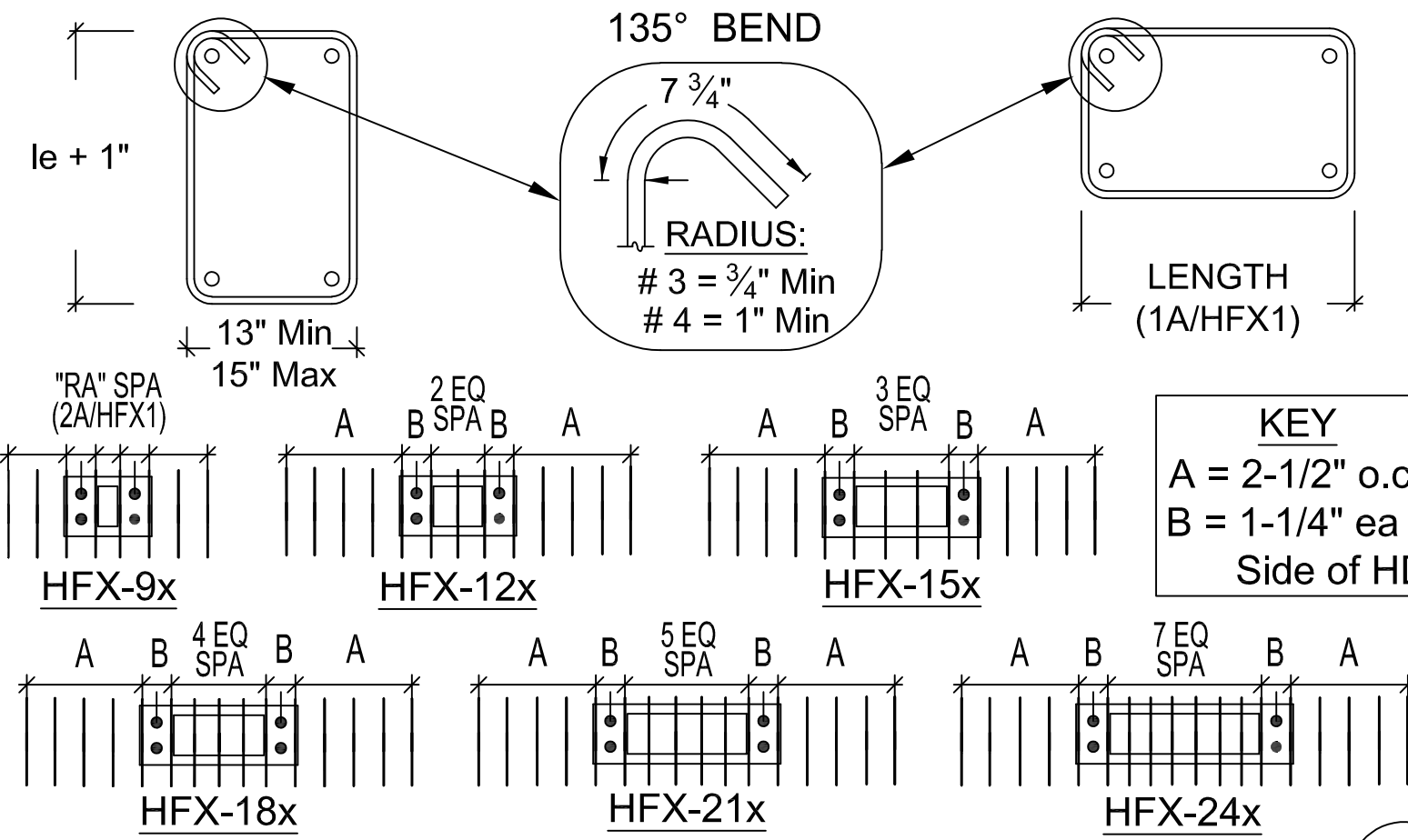
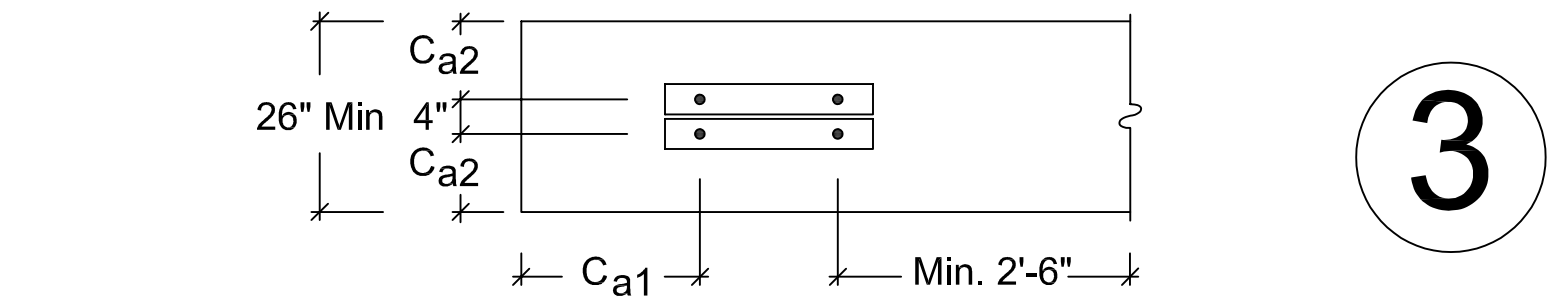
1-1/8 - STD - BB - RA

REINFORCED ANCHORAGE

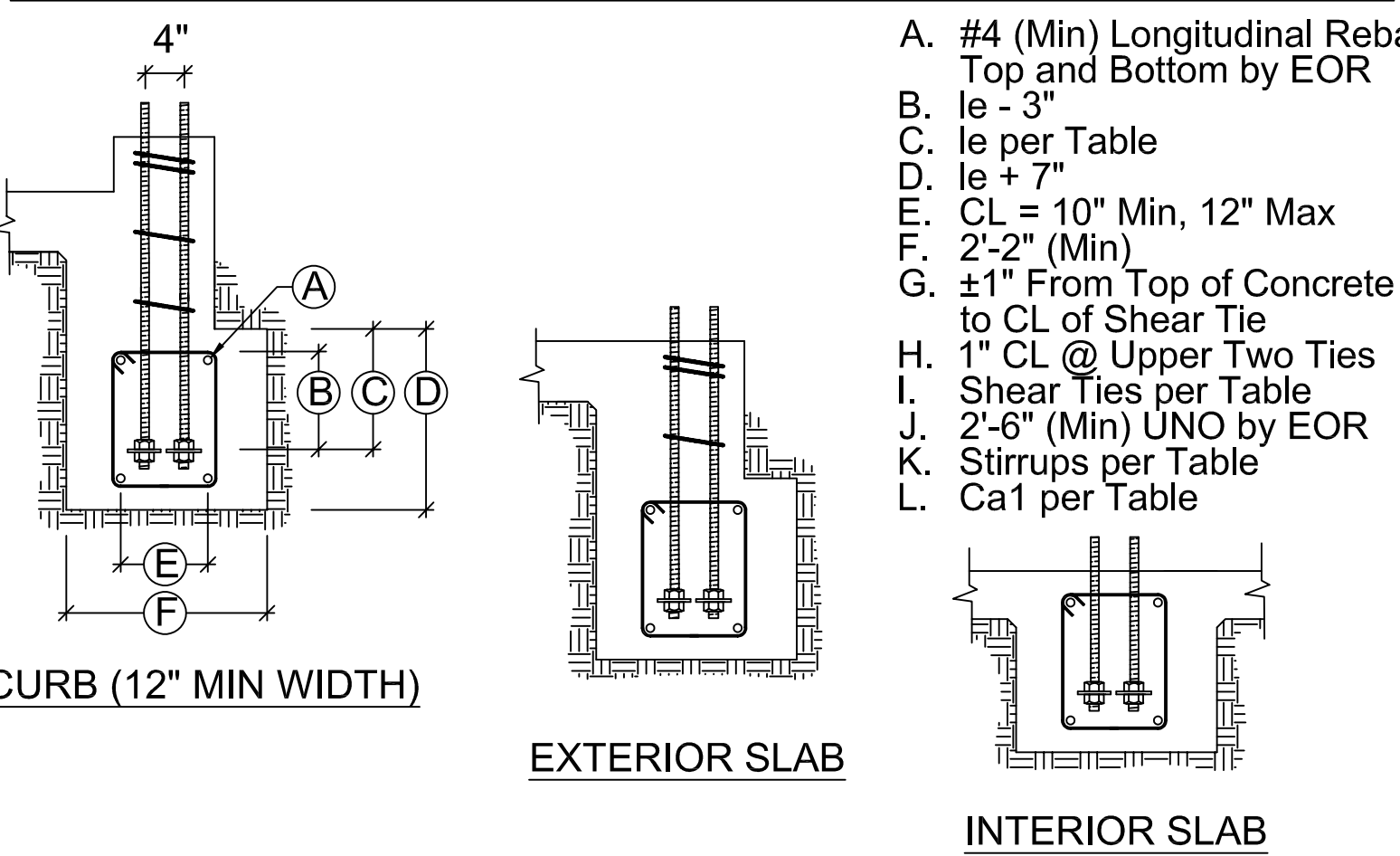
"BACK TO BACK" INSTALLATION

ROD GRADE

ROD DIAMETER



BB-RA SHEAR TIES & STIRRUPS



BB-RA SECTIONS & ELEVATIONS

REINFORCED ANCHORAGE (RA)

Model	Panel Width (in)	Anchorage <sup>1</sup>	Rod Dia (in)	Rod <sup>2,3</sup> Grade	le <sup>4</sup> (in)	Ca <sup>5</sup> <sub>1</sub> (in)	Ca <sup>6</sup> <sub>2</sub> (in)	Stirrups <sup>9</sup> (in)	Shear <sup>7</sup> Ties
HFX-9x	9	1-1/8-STD-RA	1-1/8	STD	15	19-3/4		8 - # 4	# 3 (min) @ 3-3/4" OC
HFX-12x	12	1-1/8-STD-RA 1-1/8-HS-RA		STD HS				9 - # 4	# 3 (min) @ 4" OC
HFX-15x	15	1-1/8-STD-RA 1-1/8-HS-RA	1-1/8	STD HS	15	20-5/8	11	10 - # 4	
HFX-18x	18	1-1/8-STD-RA 1-1/8-HS-RA		STD HS				11 - # 4	# 4 (min) @ 4" OC
HFX-21x	21	1-1/8-STD-RA 1-1/8-HS-RA	1-1/8	STD HS	15	20-5/8	11	12 - # 4	
HFX-24x	24	1-1/8-STD-RA 1-1/8-HS-RA		STD HS				12 - # 4	

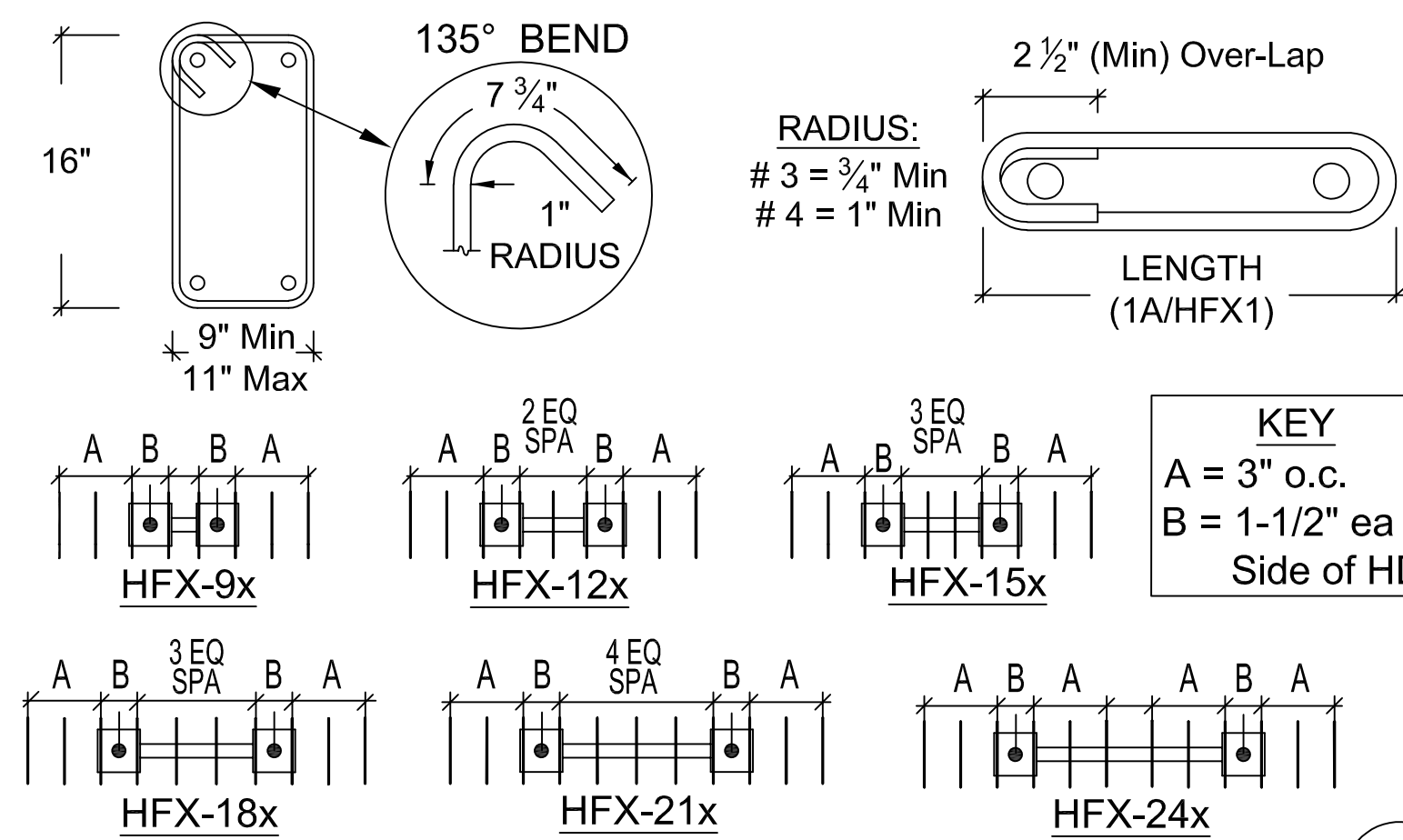
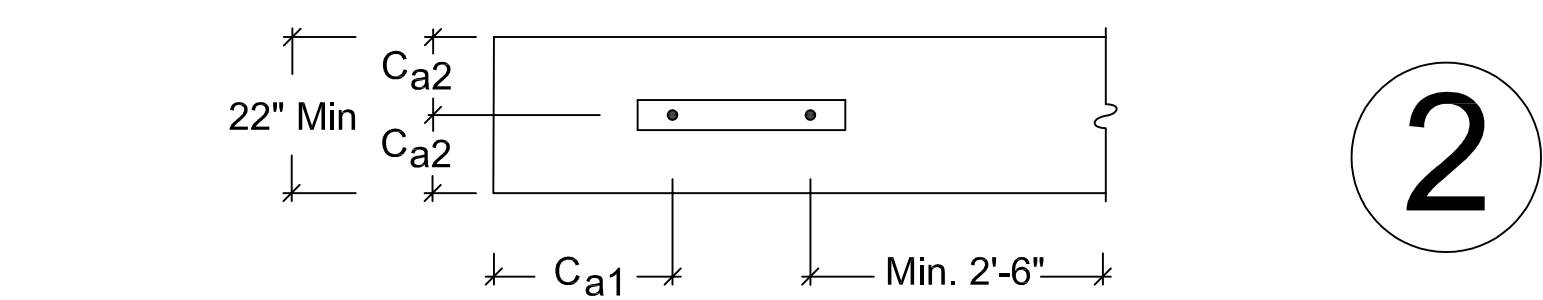
REINFORCED ANCHORAGE NOMENCLATURE

1-1/8 - STD - RA

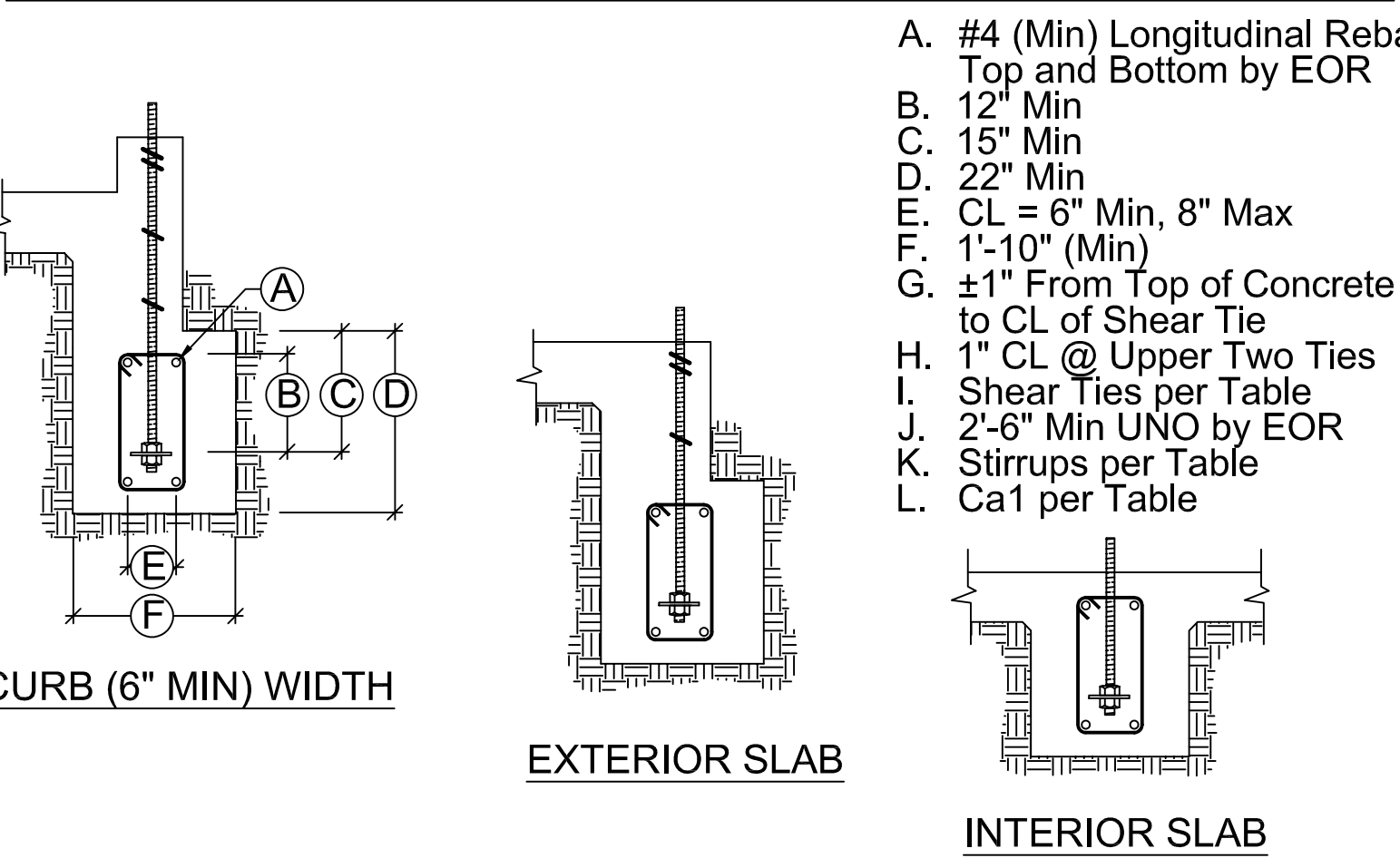
REINFORCED ANCHORAGE

ROD GRADE

ROD DIAMETER



RA SHEAR TIES & STIRRUPS



RA SECTIONS & ELEVATIONS

UNREINFORCED ANCHORAGE (UA)

Model	Panel Height	Anchorage <sup>1</sup>	Rod Dia (in)	Rod <sup>2,3</sup> Grade	le <sup>4</sup> (in)	Ca <sup>5</sup> <sub>1</sub> (in)	Ca <sup>6</sup> <sub>2</sub> (in)	Shear <sup>7,8</sup> Ties
HFX-9x	79.5" - 8'	1-1/8-STD-13-19	1-1/8	STD	13	19		1 - # 3
HFX-12x	78" - 10'	1-1/8-HS-20-30		HS				
HFX-15x, 18x	78" - 13'	1-1/8-STD-14-20	1-1/8	STD	14	20		2 - # 3
HFX-15x, 18x Balloon	14' - 20'	1-1/8-HS-20-30		HS				
HFX-21x, 24x	78" - 13'	1-1/8-STD-14-20 1-1/8-HS-23-34	1-1/8	STD HS	14	20		2 - # 3
HFX-21x, 24x Balloon	14' - 20'	1-1/8-HS-20-30		HS				

UNREINFORCED ANCHORAGE NOMENCLATURE

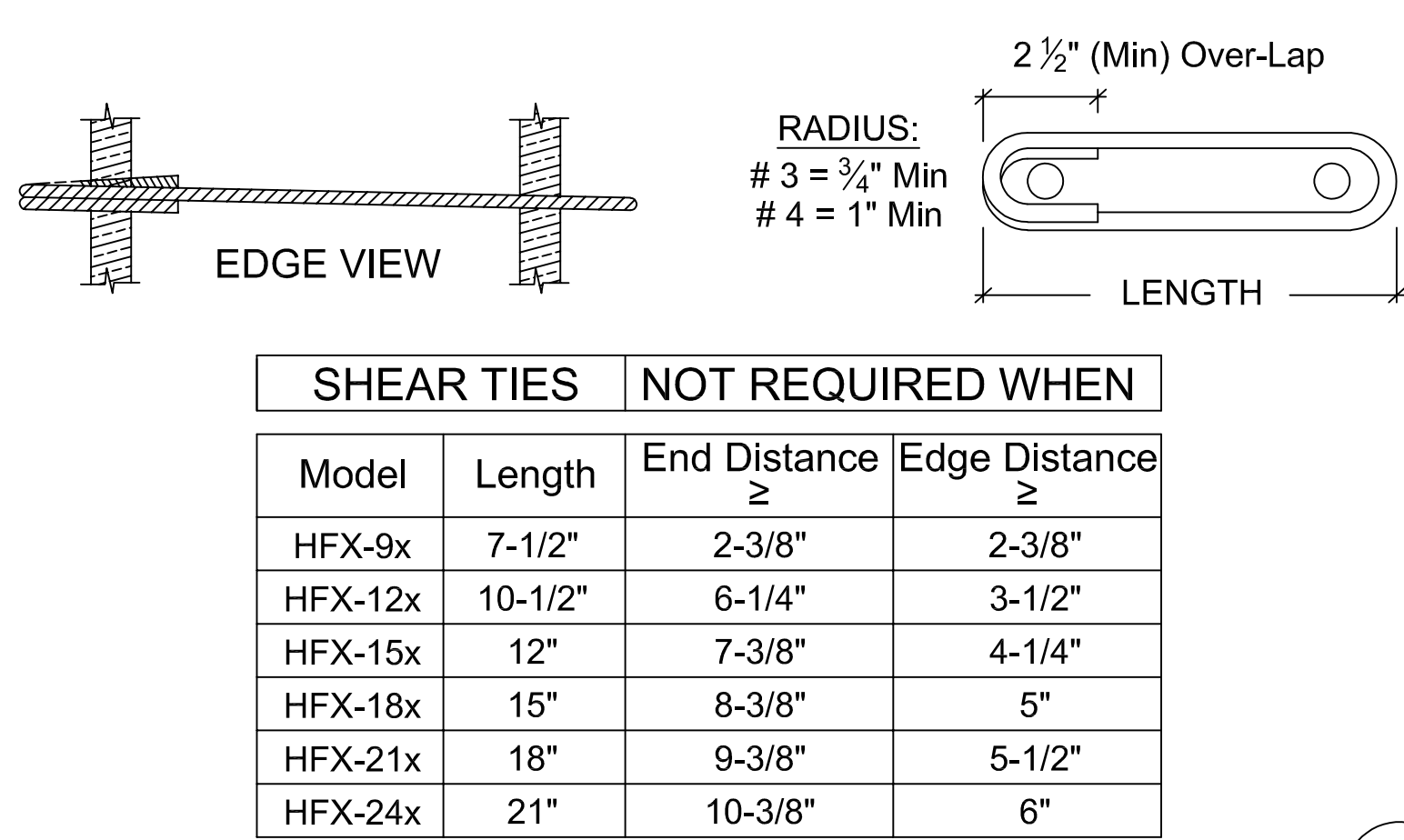
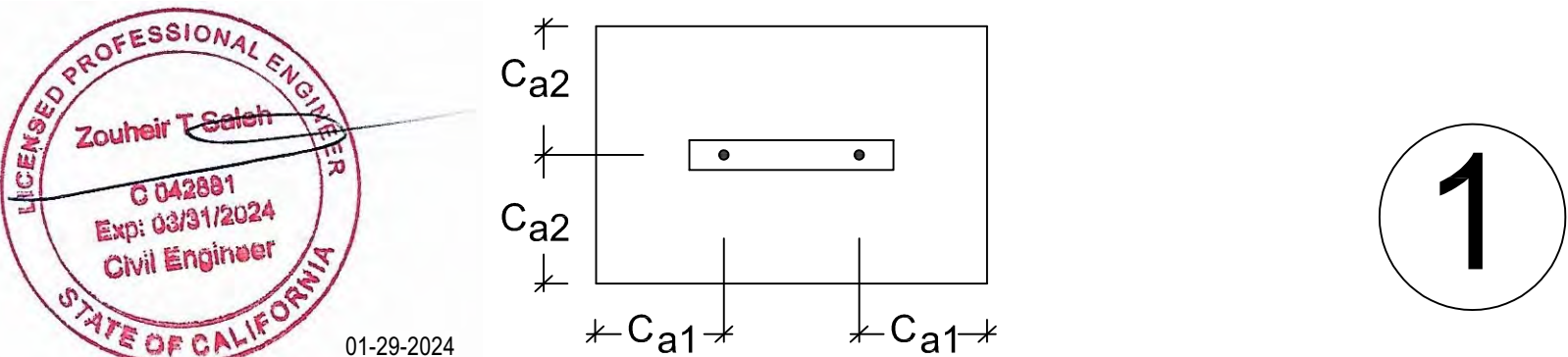
1-1/8 - STD - 14 - 20

END & EDGE DISTANCE (Ca<sub>1</sub> & Ca<sub>2</sub>)

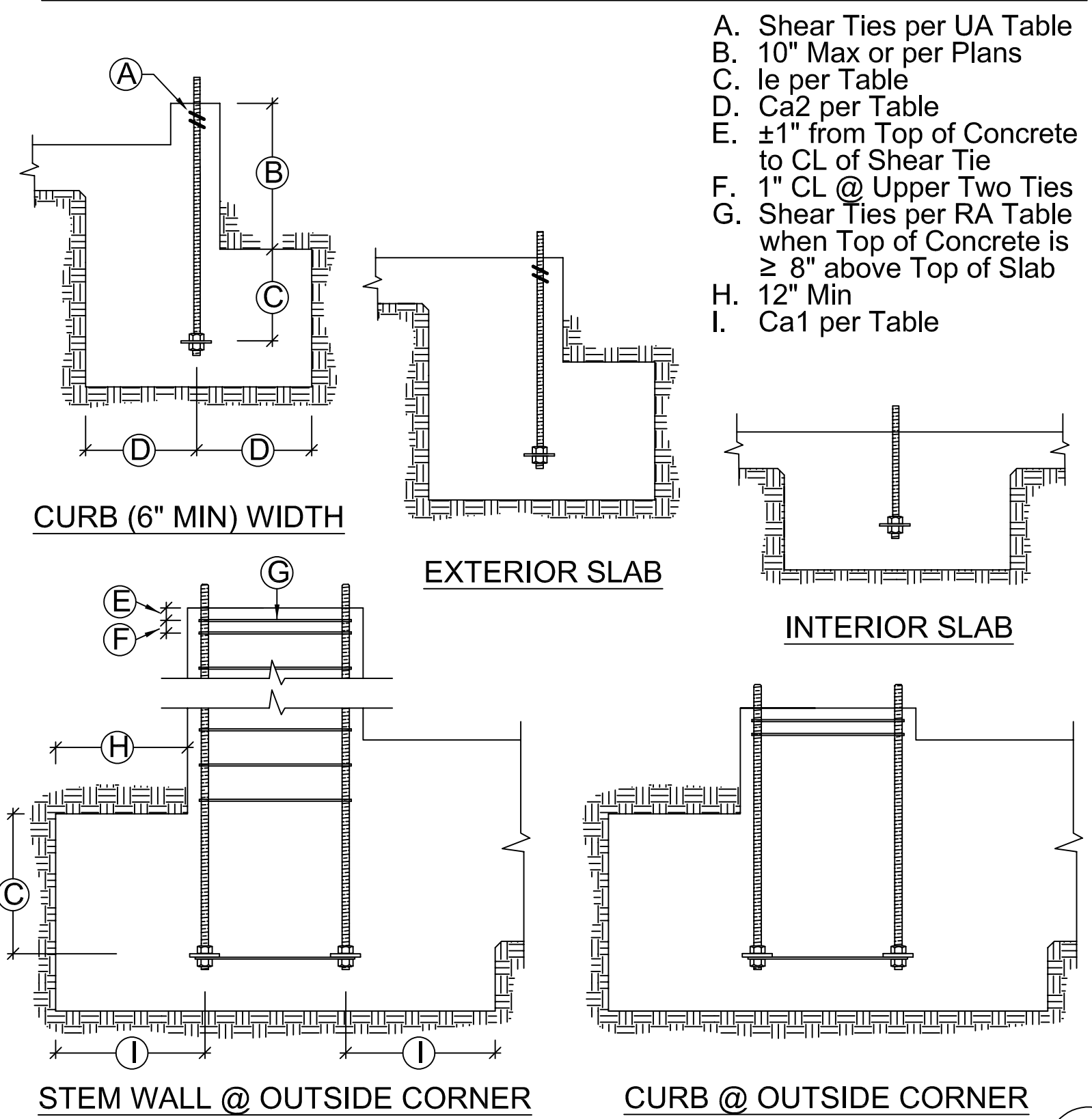
EMBEDMENT DEPTH (le)

ROD GRADE

ROD DIAMETER

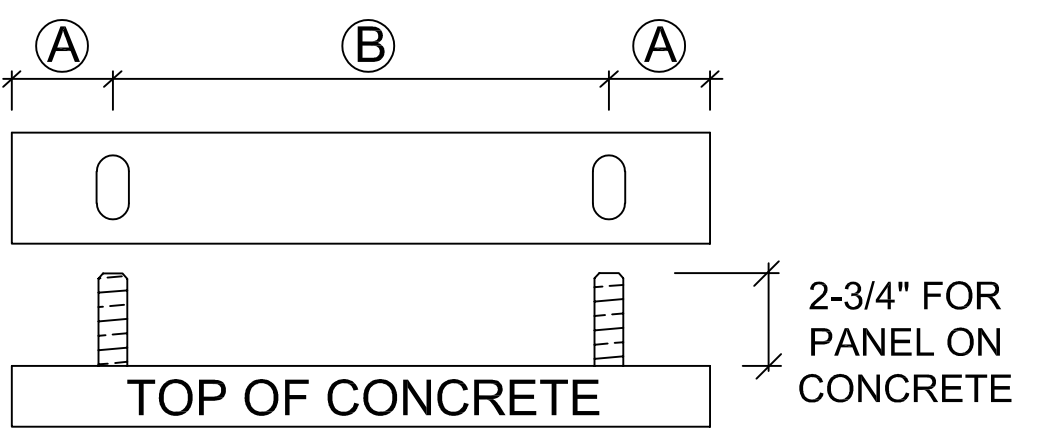


UA SHEAR TIES



UA SECTIONS & ELEVATIONS

- DESIGNS ARE TO RESIST LOADING PER ACI 318-19, SEC 17.10.5.3.
- STD INDICATES ANCHORS COMPLYING WITH ASTM F1554 GRADE 36 WITH A HARDY FRAME BOLT BRACE (HFXBB) INSTALLED WITH STD OR GRADE 8 DOUBLE NUTS ON THE EMBED END.
- HS INDICATES ANCHORS COMPLYING WITH ASTM A193 GRADE B7 WITH A 1/2"x3"x3"(MIN) HFPW PLATE WASHER INSTALLED WITH DOUBLE NUTS ON THE EMBED END (HFXBB NOT REQUIRED).
- LE = LENGTH OF EMBEDMENT FROM THE TOP OF FOOTING OR GRADE BEAM TO THE TOP OF THE HFXBB BOLT BRACE (TOP OF THE EMBEDDED HFPW PLATE WASHER @ HS ANCHORS)
- CA1 = DISTANCE FROM HD CENTERLINE TO THE END OF THE FOOTING OR GRADE BEAM.
- CA2 = DISTANCE FROM HD CENTERLINE TO BOTH THE FRONT AND THE BACK FACE OF THE FOOTING OR GRADE BEAM.
- SHEAR TIES ARE GRADE 60 (MIN) REBAR AND REQUIRED FOR NEAR EDGE DISTANCE CONDITIONS PER ACI 318-19, F'C = 2,500 PSI. CURBS AND STEM WALLS MUST BE 6 INCH (MIN) WIDTH FOR UA AND RA, 12 INCH (MIN) WIDTH FOR BB-RA.
- FOR UA APPLICATIONS, ADDITIONAL TIES MAY BE REQUIRED AT STEM WALLS. SHEAR TIES ARE NOT REQUIRED FOR INSTALLATION AWAY FROM EDGE (SEE DETAIL 1A), INSTALLATION ON WOOD FRAMING, OR FOR IRC BRACED WALL PANEL APPLICATIONS.
- STIRRUPS ARE GRADE 60 (MIN) REBAR. SEE TABLE FOR SIZE AND SPACING. SEE "STIRRUP LAYOUT" DIAGRAMS AND "KEY" FOR LAYOUT PATTERNS.
- CONCRETE EDGE DISTANCES MUST COMPLY WITH ACI 318-19, SECTION 17.9.2. COATED REINFORCEMENT MAY BE SPECIFIED BY THE EOR TO LIMIT EXPOSURE AND THEREFORE REDUCE MINIMUM CONCRETE COVER. COATED REINFORCEMENT MUST COMPLY WITH ACI 318-19, SECTION 20.5.2.



Model	Width	(A)	(B)
HFX-9x	9"	1-3/4"	5-1/2"
HFX-12x	12"		8-1/2"
HFX-15x	15"	2-5/8"	9-3/4"
HFX-18x	18"		12-3/4"
HFX-21x	21"		15-3/4"
HFX-24x	24"		18-3/4"

HFX ANCHOR CENTERLINES

IMPORTANT!

- ANCHORAGE IS DESIGNED FOR TENSION AND SHEAR TRANSFER ONLY, FOUNDATION DESIGN PER EOR.
- REINFORCEMENT SHOWN IS THE MINIMUM REQUIREMENT AND IS NOT INTENDED TO REPLACE REINFORCEMENT DESIGNED BY THE EOR.
- FOR RA AND BB-RA INSTALLATIONS, THE HFXBB BOLT BRACE MAY BE PLACED ON TOP OF THE STIRRUPS WITH DOUBLE-NUTS INSTALLED AT EMBED END OF STANDARD GRADE ANCHOR RODS. (NOTE: 1/2" x 3" x 3" MIN. HFPW PLATE WASHERS ARE REQUIRED TO BE DOUBLE-NUTTED AT EMBED END OF HIGH STRENGTH ANCHOR RODS.)
- HIGH STRENGTH ALL-THREAD RODS PROVIDED BY HARDY FRAMES ARE STAMPED ON BOTH ENDS.

HF B7

IMPORTANT NOTES



SECTION A

1. CAVITY ORIENTED FOR CONNECTION ACCESS.

2. NUTS AND WASHERS PER TABLE NOTE 1.

3. NOMINAL 8 INCH FRAMING ABOVE (MIN).

4. A 2x FILLER WITH 1/4" x 4-1/2" MINIMUM WS SCREWS IS PERMITTED.

5. FIELD INSTALLED WOOD BACKING AS NEEDED.

BACK TO BACK INSTALLATION

3

ALTERNATE:

FILLER GREATER THAN 1-1/2 IN.

6

RAISED FLOOR HEAD-OUT

8

INSTALLATION ON 2x PLATE

11

STEEL BEAM ABOVE THRU-BOLT

2

TOP PLATE CONNECTIONS

5

INSTALLATION ON CONCRETE

7

INSTALLATION ON NUTS & WASHERS

10

NOTE:  
ATTACHMENTS TO ADJACENT TRIMMERS MAY BE MADE AT PREPUNCHED SCREW HOLES OR WITH SELF TAPPING SCREWS (#12 AT EDGES, #10 AT FACE).

6x HEADER ABOVE-SECTIONS

1

NOTE:  
TO PREVENT DRILLING ADDITIONAL HOLES ORIENT THE PANEL CAVITY TOWARD THE FIXTURE BEING INSTALLED.

TOP CONNECTION TO HEADER

4

INSTALLATION ON CURB

9

HFX PANELS 78 IN. THROUGH NOMINAL 13 FEET					
Model Number	Net Height (in)	Depth (in)	Hold Down Diameter <sup>1</sup> (in)	Top Screw Qty <sup>2</sup> (ea)	Screw Qty Available at Edges (ea) <sup>3</sup>
HFX-12,15,18,21 & 24x78	78	3-1/2	1-1/8	9" Width = 5	4
HFX-9x79.5	79-1/2			12" Width = 6	
HFX-12,15,18,21 & 24x8	92-1/4			15" Width = 8	
HFX-9x8	93-3/4			18" Width = 10	5
HFX-12,15,18,21 & 24x9	104-1/4			21" Width = 12	
HFX-12,15,18,21 & 24x10	116-1/4			24" Width = 14	6
HFX-15,18,21 & 24x11	128-1/4	3-1/2	1-1/8	15" Width = 8	6
HFX-15,18,21 & 24x12	140-1/4			18" Width = 10	
HFX-15,18,21 & 24x13	152-1/4			21" Width = 12	7
HFX-15,18,21 & 24x14	164-1/4	3-1/2	1-1/8	24" Width = 14	8
HFX-15,18,21 & 24x15	176-1/4			15" Width = 8	
HFX-15,18,21 & 24x16	188-1/4			18" Width = 10	
HFX-15,18,21 & 24x17	200-1/4			21" Width = 12	7
HFX-15,18,21 & 24x18	212-1/4			24" Width = 14	
HFX-15,18,21 & 24x19	224-1/4			15" Width = 8	6
HFX-15,18,21 & 24x20	236-1/4			18" Width = 10	

BALLOON PANELS 14 FEET THROUGH 20 FEET					
Model Number	Net Height (in)	Depth (in)	Hold Down Diameter <sup>1</sup> (in)	Top Screw Qty <sup>2</sup> (ea)	Screw Qty Available at Edges (ea) <sup>3</sup>
HFX-15,18,21 & 24x14	164-1/4	3-1/2	1-1/8	15" Width = 8	6
HFX-15,18,21 & 24x15	176-1/4			18" Width = 10	
HFX-15,18,21 & 24x16	188-1/4			21" Width = 12	7
HFX-15,18,21 & 24x17	200-1/4			24" Width = 14	
HFX-15,18,21 & 24x18	212-1/4			15" Width = 8	6
HFX-15,18,21 & 24x19	224-1/4			18" Width = 10	
HFX-15,18,21 & 24x20	236-1/4			21" Width = 12	7
HFX-15,18,21 & 24x21	248-1/4	3-1/2	1-1/8	24" Width = 14	8
HFX-15,18,21 & 24x22	260-1/4			15" Width = 8	
HFX-15,18,21 & 24x23	272-1/4			18" Width = 10	7
HFX-15,18,21 & 24x24	284-1/4			21" Width = 12	
HFX-15,18,21 & 24x25	296-1/4			24" Width = 14	6
HFX-15,18,21 & 24x26	308-1/4			15" Width = 8	

TABLE NOTES

- FOR STD OR HS GRADE HOLD DOWN ANCHOR BOLTS CONNECT TO THE PANEL BASE WITH HARDENED ROUND WASHERS BELOW GRADE 8 NUTS. ALTERNATE WASHERS ARE (2 EA) ROUND-FLAT OR (2 EA) SAE WASHERS ON EACH BOLT. ALTERNATE NUTS ARE 2H HEAVY HEX.
- 1/4" DIAMETER MITEK® PRO SERIES™ WS SCREWS. LENGTH IS 3" (MINIMUM) WHEN ATTACHED DIRECTLY TO THE COLLECTOR AND 4-1/2" (MINIMUM) WHEN INSTALLING A 2x FILLER ABOVE THE PANEL.
- ADJACENT FRAMING WITH 1/4" DIAMETER SCREWS IS REQUIRED AT THE PANEL EDGES WHEN INSTALLING A FILLER ABOVE THE TOP CHANNEL THAT IS GREATER THAN 1-1/2" OR WHEN SPECIFIED BY THE DESIGN PROFESSIONAL.

INSTALLATION INSTRUCTIONS

- WHEN INSTALLING ON CONCRETE CONNECT WITH (1 EA) HARDENED ROUND WASHER BELOW (1 EA) GRADE 8 NUT, SECURE WITH A DEEP SOCKET (RECOMMENDED) UNTIL SNUG TIGHT. ALTERNATE WASHERS AND NUTS ARE PROVIDED IN TABLE NOTE 1.
- INSTALLATION ON CONCRETE PROVIDES THE HIGHEST ALLOWABLE VALUES. CONFIRM WITH THE DESIGN PROFESSIONAL BEFORE INSTALLING ON OTHER SUPPORTING SURFACES.
- USE 1/4"x4-1/2" MITEK® PRO SERIES™ WS SCREWS AT TOP CONNECTIONS WITH A 2x FILLER. IF THE TOP OF PANEL IS IN DIRECT CONTACT WITH THE COLLECTOR ABOVE (TOP PLATES, HEADER, BEAM, ETC.) USE 1/4 x 3" (MIN)
- FOR INSTALLATIONS WITH A FILLER GREATER THAN 1-1/2" ABOVE, OR WHEN SPECIFIED BY THE DESIGN PROFESSIONAL, ADJACENT KING POSTS TO BRACE THE OUT-OF-PLANE HINGE CAN BE CONNECTED WITH 1/4" DIA. SCREWS THROUGH PRE-PUNCHED HOLES AT THE PANEL EDGES.

9" PANEL	12" PANEL	15" PANEL
18" PANEL	21" PANEL	24" PANEL

NOTES:

A. SURFACE FINISHES, CONNECTORS AND FIXTURES ARE ATTACHED TO THE PANEL FACE WITH # 10 SELF-TAPPING SCREWS SPACED NO LESS THAN 2-1/4" OC.

B. ATTACHMENTS TO THE PANEL EDGES ARE MADE WITH # 12 SELF-TAPPING SCREWS.

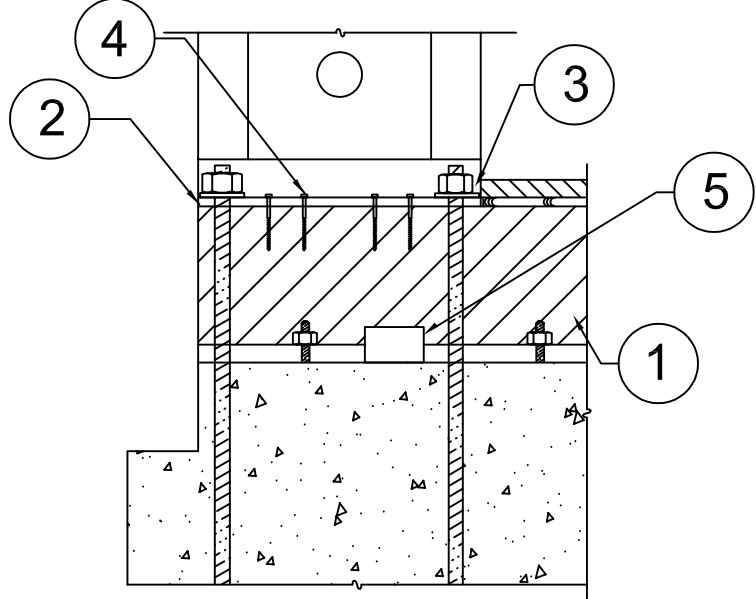
C. STRUCTURAL CONNECTIONS ARE TO BE DESIGNED BY THE DESIGN PROFESSIONAL.

D. STRUCTURAL HARDWARE USED TO TRANSFER LOADS SHOULD NOT EXCEED 12 GAUGE.



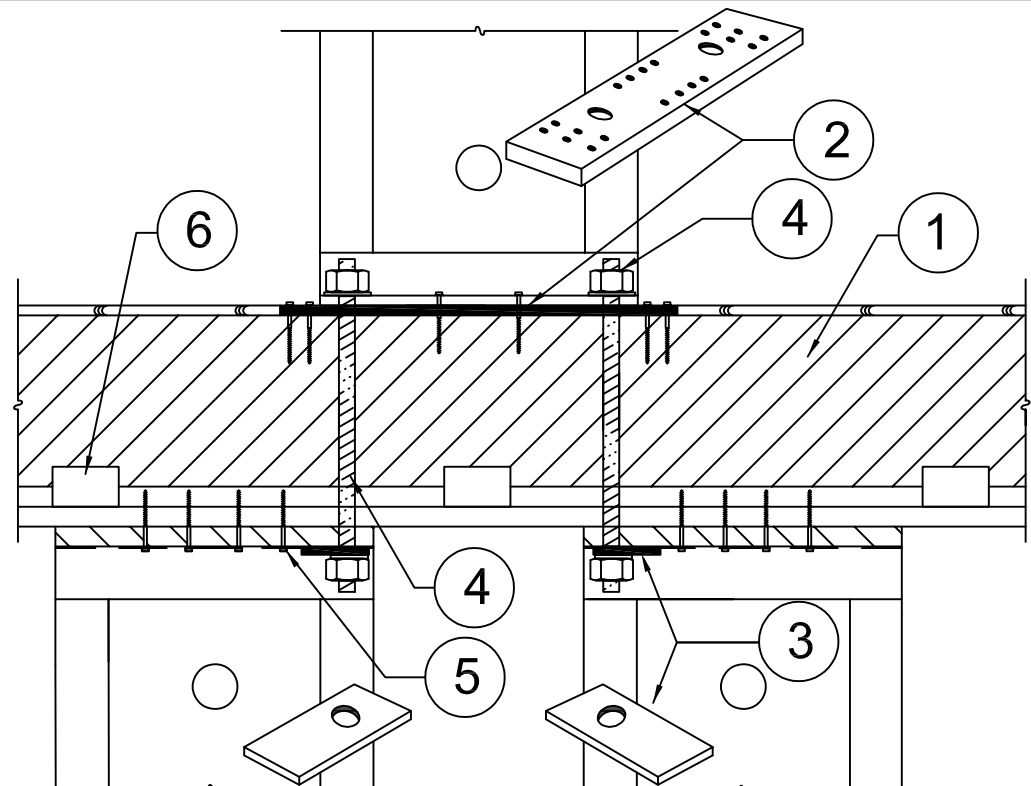
NOTES:

- A. INSTALLATION WITHOUT *HARDY FRAME*® BEARING PLATE (HFXBP) MAY INCREASE DEFLECTION AND RESULT IN A DECREASE OF ALLOWABLE SHEAR VALUE. BUILDING DESIGN PROFESSIONAL MUST ANALYZE EFFECTS
- B. COUPLERS MAY BE USED WHEN THREADED ROD IS SUBJECT TO TENSION LOADS ONLY.



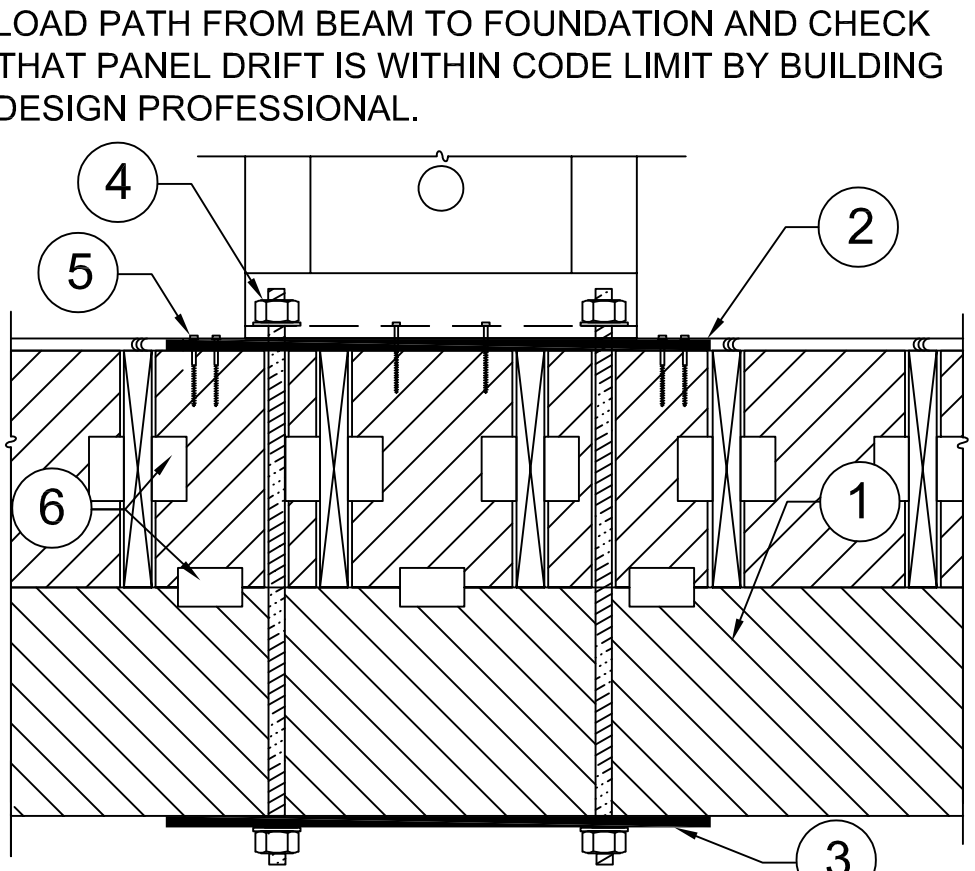
- 4x (MIN) RIM, ALLOWABLE VALUE TABLES ASSUME ENGINEERED WOOD PRODUCT.
- NOTCH FLOOR SHEATHING THEN INSTALL *HARDY FRAME*® PANEL DIRECTLY ON RIM.
- NUTS AND WASHERS PER TABLE NOTE 1.
- 1/4" x 4-1/2" (MINIMUM) WS SCREWS THROUGH BOTTOM OF PANEL MINIMUM QUANTITY PER TABLE.
- USP MP4F CONNECTORS, QUANTITY BY BUILDING DESIGN PROFESSIONAL.

RAISED-OS CORNER



- 4x (MIN) RIM, ALLOWABLE VALUE TABLES ASSUME ENGINEERED WOOD PRODUCT.
- NOTCH FLOOR SHEATHING THEN INSTALL *HARDY FRAME*® BEARING PLATE (HFXBP) AND PANEL PER INSTALLATION NOTES 3-6, DETAIL B/HFX3.
- HARDY FRAME*® STACKING WASHER (HFSW) AT TOP OF PANEL REQUIRED WHEN CONNECTING TO TENSION ANCHOR FROM ABOVE.
- 1-1/8 in. DIA HOLD DOWN, HFSW AND N&W PER TABLE NOTE 1 ARE PROVIDED IN *HARDY FRAME*® HFTC KIT.
- 1/4" x 4-1/2" (MIN) WS SCREWS, QUANTITY PER TABLE.
- USP MP4F CONNECTORS, QUANTITY BY BUILDING DESIGN PROFESSIONAL.

PYRAMID STACK

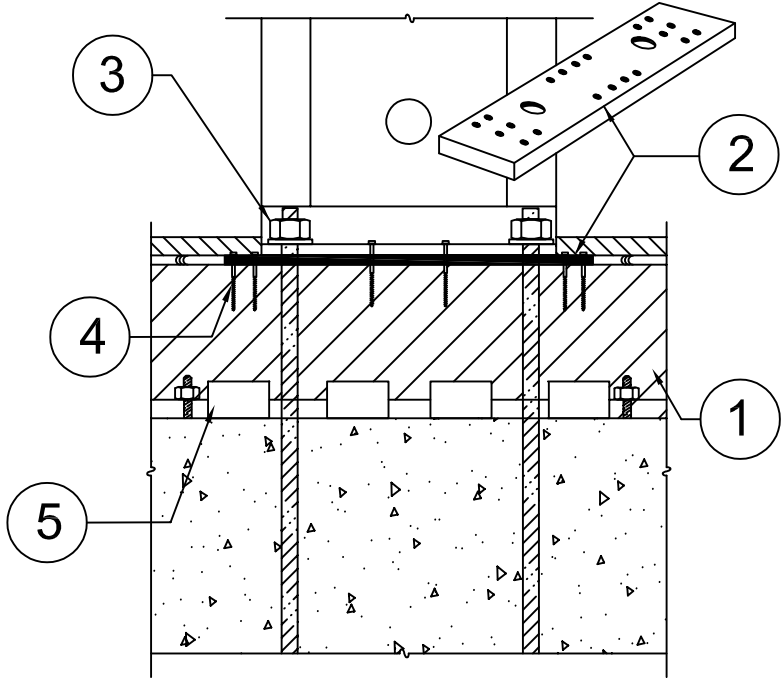


- DROP BEAM WITH FLOOR JOIST ABOVE PER PLAN.
- NOTCH FLOOR SHEATHING THEN INSTALL *HARDY FRAME*® BEARING PLATE (HFXBP) AND PANEL PER INSTALLATION NOTES 3-6, DETAIL B/HFX3.
- HARDY FRAME*® BEARING PLATE (HFXBP) OR BEARING PLATE WASHER AT UNDERSIDE OF BEAM SIZED PER BUILDING DESIGN PROFESSIONAL TO LIMIT CRUSHING FROM TENSION ANCHOR FORCES.
- NUTS AND WASHERS PER TABLE NOTE 1.
- 1/4" x 4-1/2" (MIN) WS SCREWS, QUANTITY PER TABLE.
- USP CONNECTORS BY DESIGN PROFESSIONAL

DROP BM - FL SYSTEM

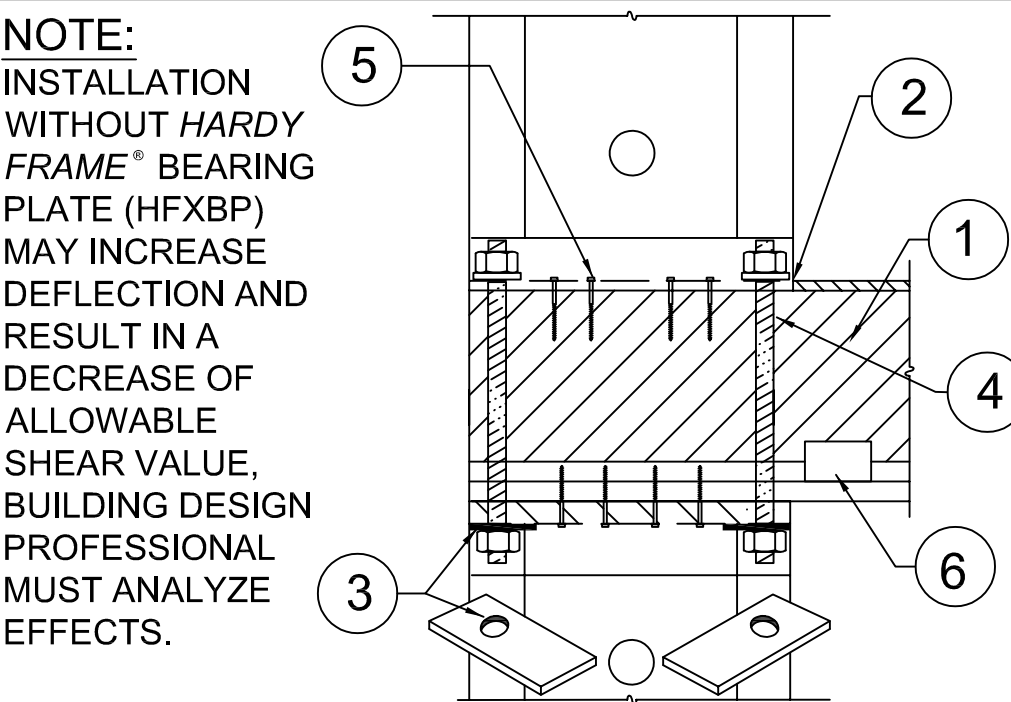
NOTE:

COUPLERS MAY BE USED WHEN THREADED ROD IS SUBJECT TO TENSION LOADS ONLY.



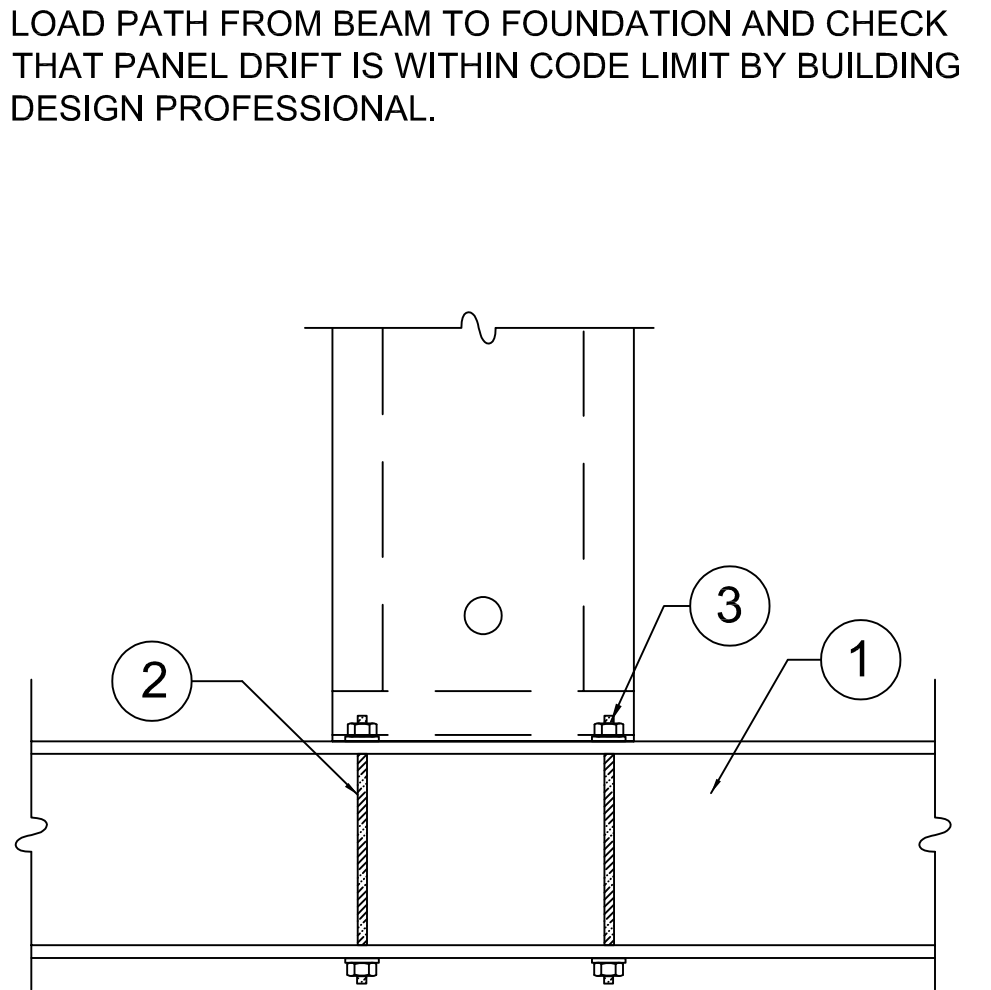
- 4x (MIN) RIM, ALLOWABLE VALUE TABLES ASSUME ENGINEERED WOOD PRODUCT.
- NOTCH FLOOR SHEATHING THEN INSTALL *HARDY FRAME*® BEARING PLATE (HFXBP) AND PANEL PER INSTALLATION NOTES 3-6, DETAIL B/HFX3.
- NUTS AND WASHERS PER TABLE NOTE 1.
- 1/4" x 4-1/2" (MIN) WS SCREWS, QUANTITY PER TABLE.
- USP MP4F CONNECTORS, QUANTITY BY BUILDING DESIGN PROFESSIONAL.

RAISED BEARING PLATE



- 4x (MIN) RIM, ALLOWABLE VALUE TABLES ASSUME ENGINEERED WOOD PRODUCT.
- NOTCH FLOOR SHEATHING THEN INSTALL *HARDY FRAME*® BEARING PLATE (HFXBP) AND PANEL PER INSTALLATION NOTES 3-6, DETAIL B/HFX3.
- HARDY FRAME*® STACKING WASHER (HFSW) AT TOP OF PANEL REQUIRED WHEN CONNECTING TO TENSION ANCHOR FROM ABOVE.
- 1-1/8 in. DIA. HOLD DOWN, HFSW AND N&W PER TABLE NOTE 1 ARE PROVIDED IN *HARDY FRAME*® HFTC KIT.
- 1/4" x 4-1/2" (MIN) WS SCREWS, QUANTITY PER TABLE.
- USP MP4F CONNECTORS, QUANTITY BY BUILDING DESIGN PROFESSIONAL.

STACK @ OS CORNER

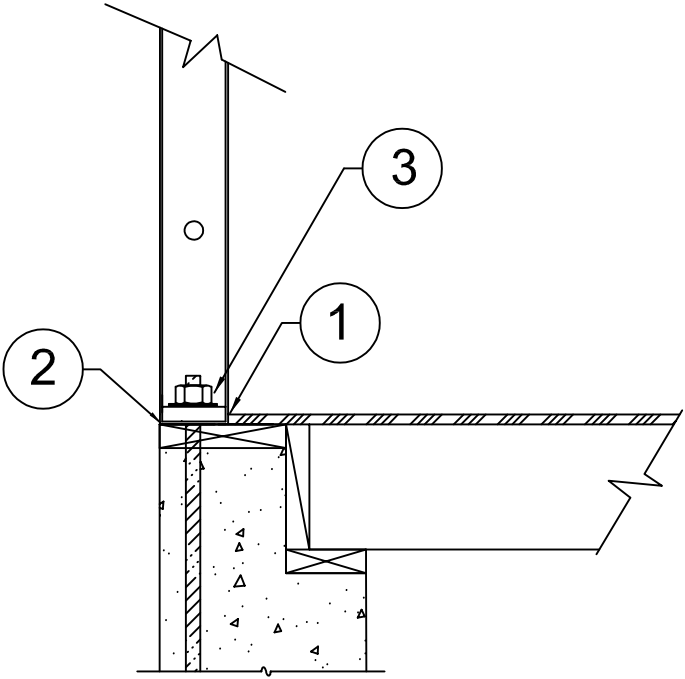


- STEEL BEAM PER PLANS
- HOLD DOWN ALL THREAD RODS THRU-BOLTED TO BOTTOM FLANGE OF STEEL BEAM BY BUILDING DESIGN PROFESSIONAL.
- NUTS AND WASHERS AT PANEL BASE PER TABLE NOTE 1

STEEL BM THRU-BOLT

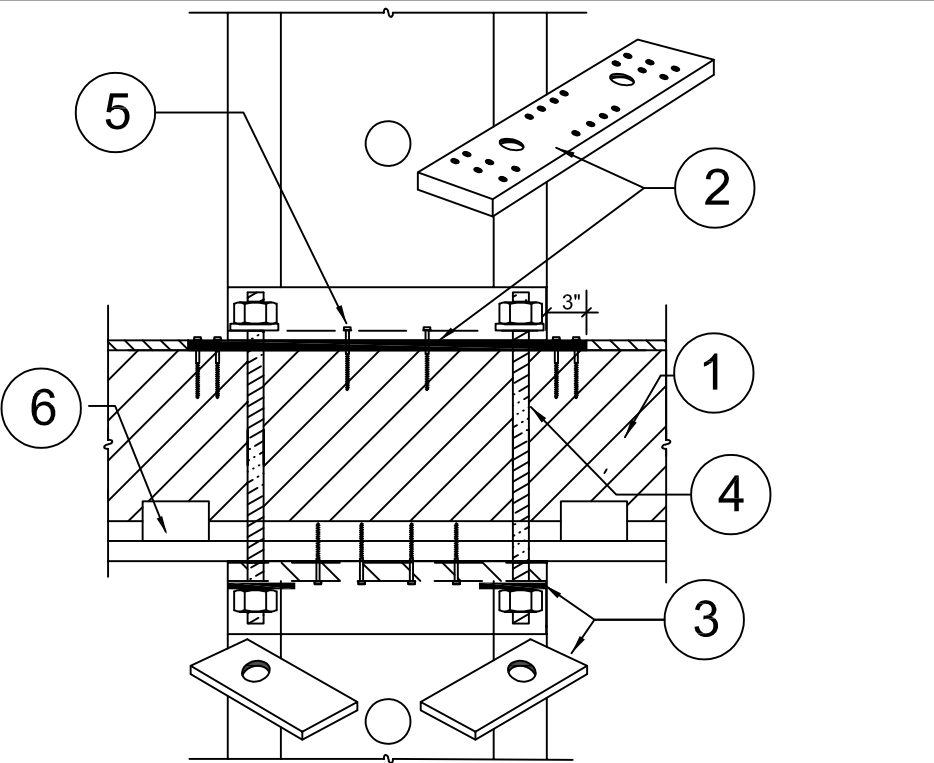
NOTES:

- A. CHECK WALL HEIGHT, *HARDY FRAME*® BEARING PLATES BELOW THE PANEL BASE OR CUSTOM HEIGHT PANELS ARE AVAILABLE TO AVOID FILLERS GREATER THAN 1-1/2".
- B. FOR MAXIMUM ALLOWABLE VALUES INSTALL PANEL ON CONCRETE



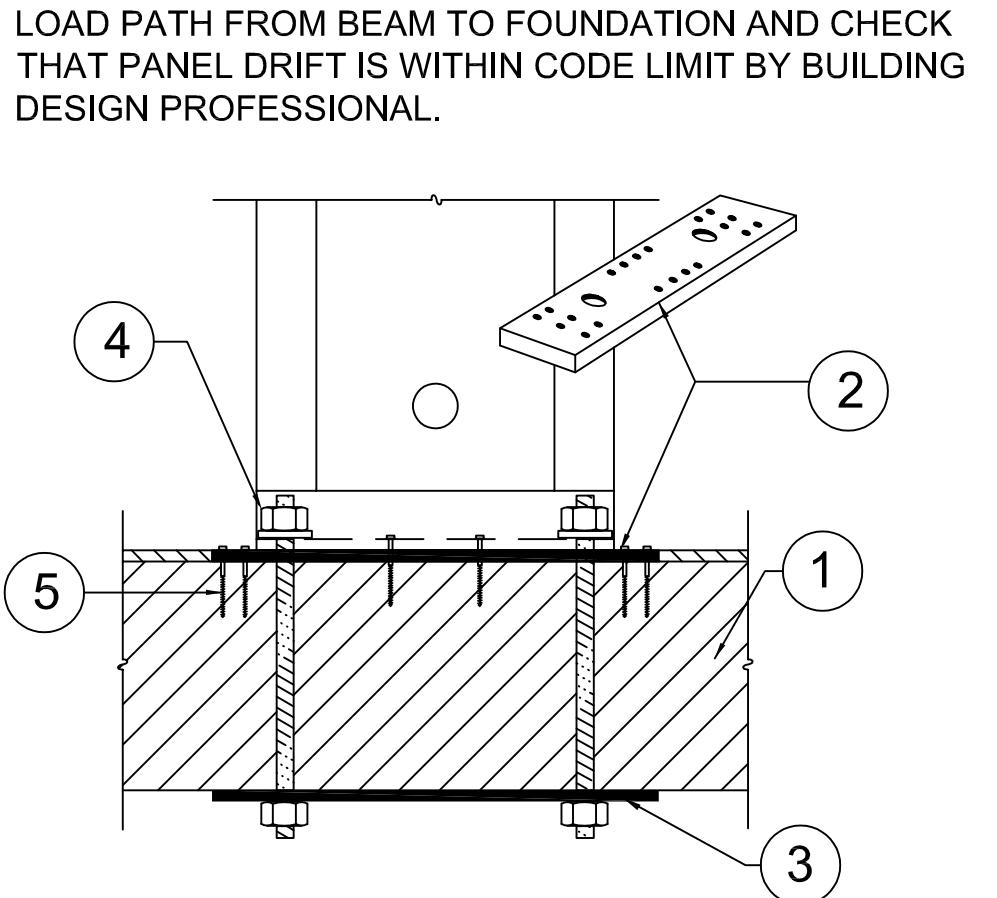
- FLOOR SHEATHING NOTCHED, INSTALL PANEL ON WOOD PLATE.
- 15# FELT OR EQUIVALENT RECOMMENDED BETWEEN PANEL BASE AND TREATED MUDDSILL.
- NUTS AND WASHERS PER TABLE NOTE 1.

RAISED STEM WALL



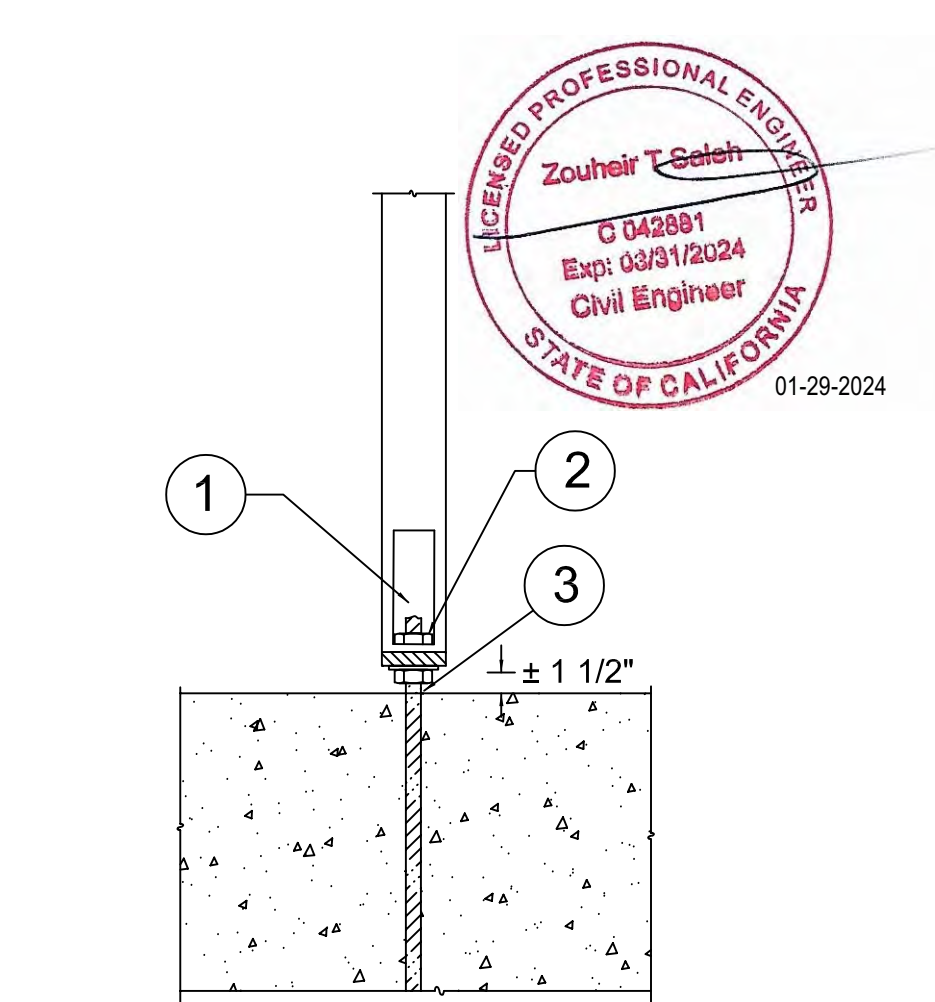
- 4x (MIN) RIM, ALLOWABLE VALUE TABLES ASSUME ENGINEERED WOOD PRODUCT.
- NOTCH FLOOR SHEATHING THEN INSTALL *HARDY FRAME*® BEARING PLATE (HFXBP) AND PANEL PER INSTALLATION NOTES 3-6, DETAIL B/HFX3.
- HARDY FRAME*® STACKING WASHER (HFSW) AT TOP OF PANEL REQUIRED WHEN CONNECTING TO TENSION ANCHOR FROM ABOVE.
- 1-1/8 in. DIA. HOLD DOWN, HFSW AND N&W PER TABLE NOTE 1 ARE PROVIDED IN *HARDY FRAME*® HFTC KIT.
- 1/4" x 4-1/2" (MIN) WS SCREWS, QUANTITY PER TABLE.
- USP MP4F CONNECTORS, QUANTITY BY BUILDING DESIGN PROFESSIONAL.

STRAIGHT STACK



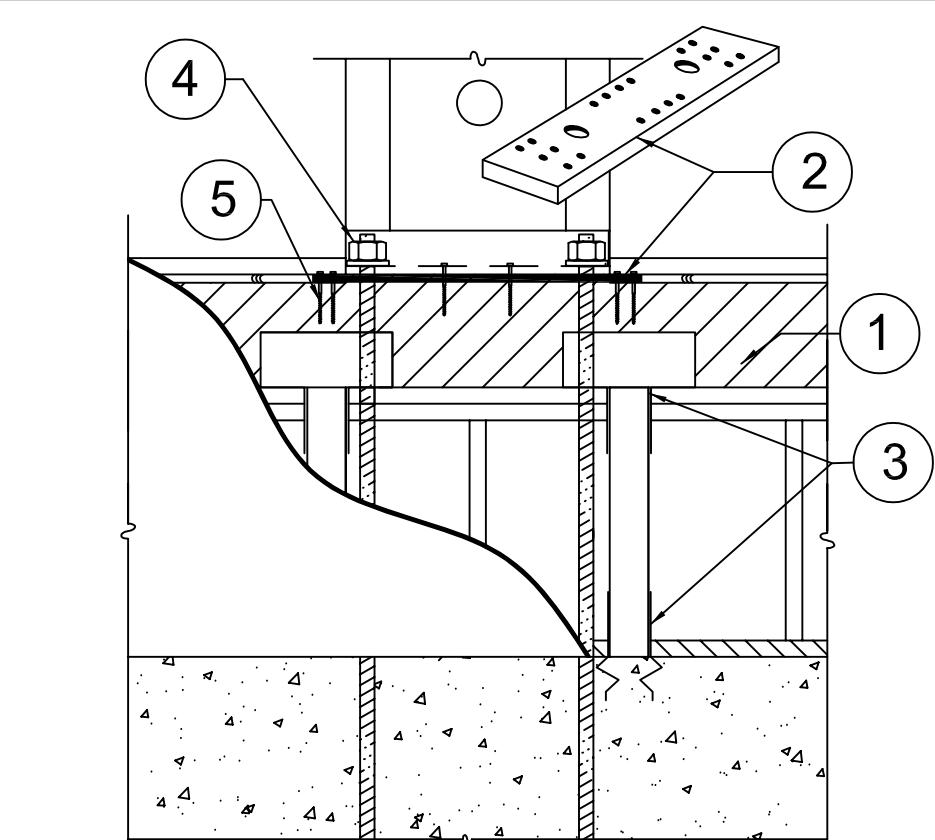
- WOOD BEAM PER PLAN.
- NOTCH FLOOR SHEATHING THEN INSTALL *HARDY FRAME*® BEARING PLATE (HFXBP) AND PANEL PER INSTALLATION NOTES 3-6, DETAIL B/HFX3.
- HARDY FRAME*® BEARING PLATE (HFXBP) OR BEARING PLATE WASHER AT UNDERSIDE OF BEAM SIZED PER BUILDING DESIGN PROFESSIONAL TO LIMIT CRUSHING FROM TENSION ANCHOR FORCES.
- 1-1/8 in. DIA. HOLD DOWN, HFSW AND N&W PER TABLE NOTE 1 ARE PROVIDED IN *HARDY FRAME*® HFTC KIT.
- 1/4" x 4-1/2" (MIN) WS SCREWS, QUANTITY PER TABLE.

WOOD BM THRU-BOLT



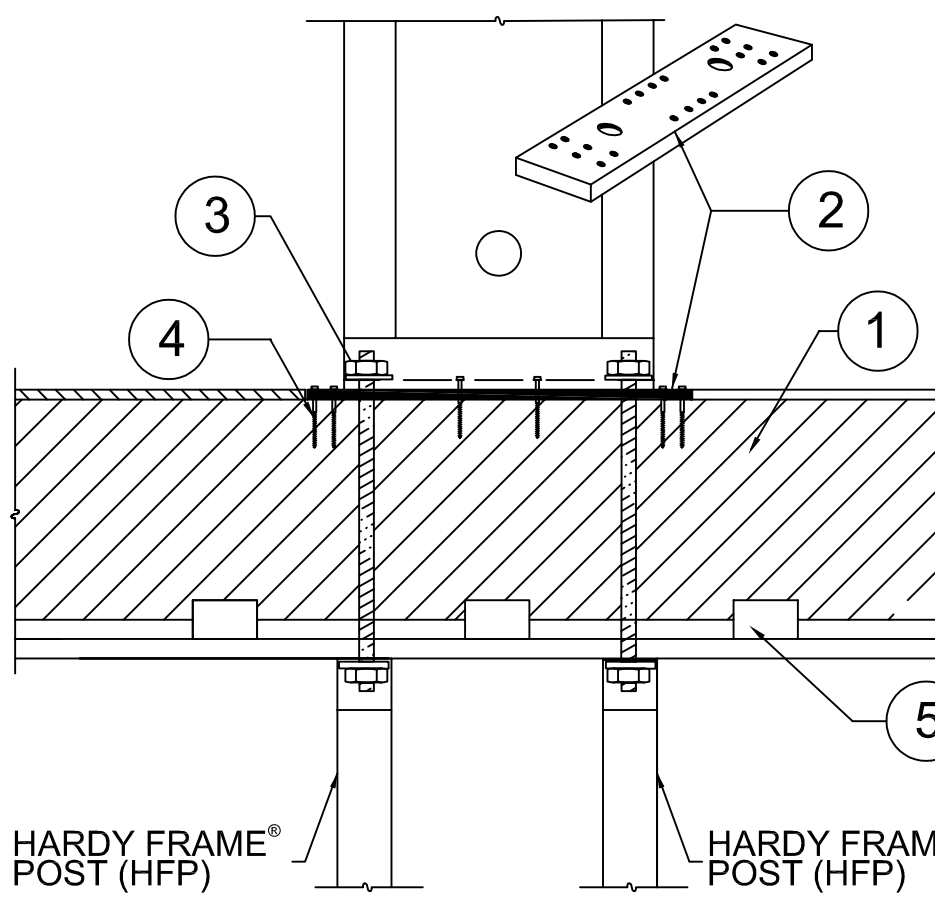
- ACCESS HOLE LOCATED AT EDGE OF POST.
- NUTS AND WASHERS PER TABLE NOTE 1.
- PLUS OR MINUS 1-1/2" GAP TO BE FILLED WITH 5,000 PSI STRENGTH NON-SHRINK GROUT (MIN).

POST ON N&W



- 4x (MIN) RIM, ALLOWABLE VALUE TABLES ASSUME ENGINEERED WOOD PRODUCT.
- NOTCH FLOOR SHEATHING THEN INSTALL *HARDY FRAME*® BEARING PLATE (HFXBP) AND PANEL PER INSTALLATION NOTES 3-6, DETAIL B/HFX3.
- USP POST CAP AND POST BASE BY THE BUILDING DESIGN PROFESSIONAL.
- NUTS AND WASHERS PER TABLE NOTE 1.
- 1/4" x 4-1/2" (MIN) WS SCREWS, QUANTITY PER TABLE.

CRIPPLE WALL



- 4x (MIN) RIM, ALLOWABLE VALUE TABLES ASSUME ENGINEERED WOOD PRODUCT.
- NOTCH FLOOR SHEATHING THEN INSTALL *HARDY FRAME*® BEARING PLATE (HFXBP) AND PANEL PER INSTALLATION NOTES 3-6, DETAIL B/HFX3.
- 1-1/8" DIA. HOLD DOWN, HFSW AND N&W PER TABLE NOTE 1 ARE PROVIDED IN *HARDY FRAME*® HFTC KIT.
- 1/4" x 4-1/2" (MIN) WS SCREWS, QUANTITY PER TABLE.
- USP MP4F CONNECTORS, QUANTITY BY BUILDING DESIGN PROFESSIONAL.

HFP POSTS BELOW

Model Number	Net Height (in)	Depth (in)	Hold Down Diameter <sup>1</sup> (in)	Screw Quantity			Screw Qty <sup>4</sup> Available at Edges (ea)
				Panel	Top <sup>2</sup> (ea)	Bott <sup>3</sup> (ea)	
HFX-12,15,18,21 & 24x8	92-1/4	3-1/2	1-1/8	12" Width	6	6	4
HFX-12,15,18,21 & 24x9	104-1/4			15" Width	8	8	
HFX-12,15,18,21 & 24x10	116-1/4			18" Width	10	10	
HFX-15,18,21 & 24x11	128-1/4			21" Width	12	12	5
HFX-15,18,21 & 24x12	140-1/4			24" Width	14	14	
HFX-15,18,21 & 24x13	152-1/4						6

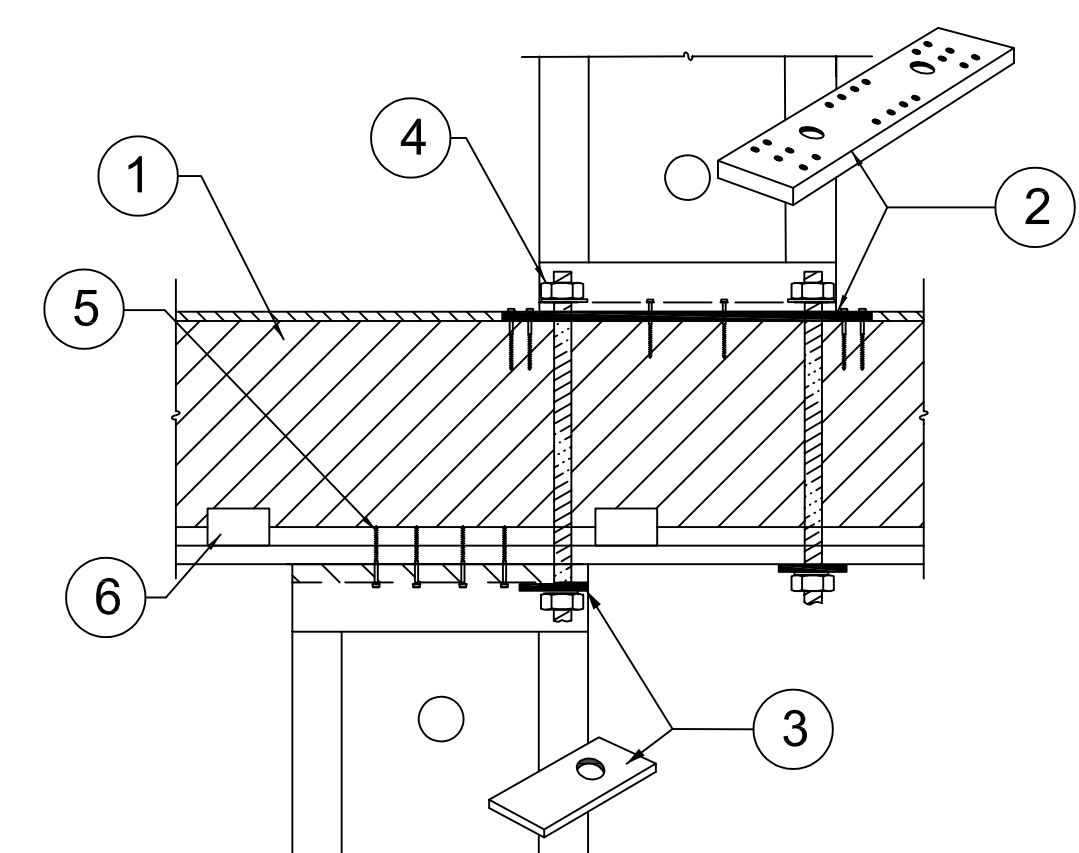
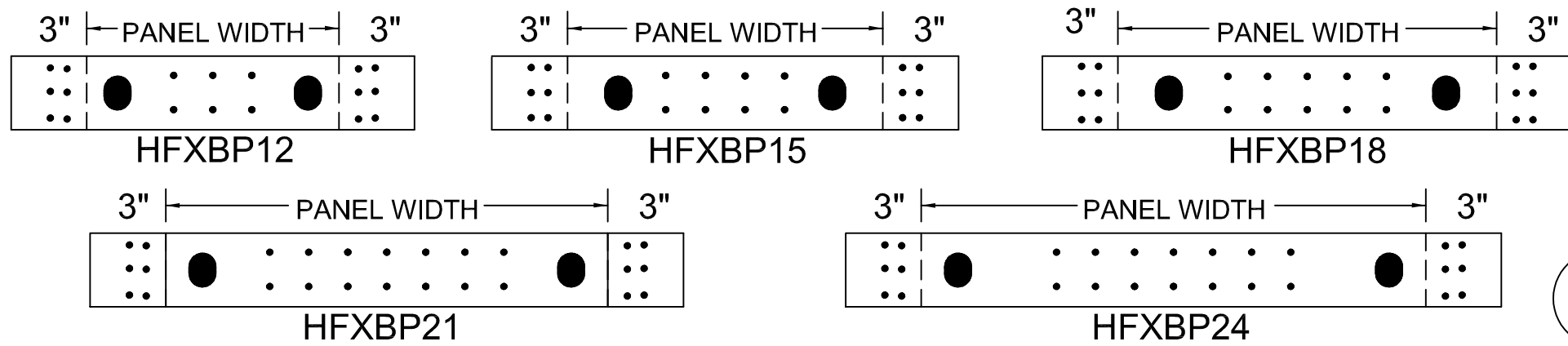
NOTE: *HARDY FRAME*® STACKING WASHERS (HFSW) ARE REQUIRED IN THE TOP OF PANELS WHEN CONNECTING TO TENSION ANCHORS FROM ABOVE. *HARDY FRAME*® "STK PANELS" INCLUDE HFSW WASHERS PRE-WELDED IN THE TOP CHANNEL.

- HOLD DOWN TENSION ANCHORS SPECIFIED AS STANDARD GRADE (STD) MUST COMPLY WITH ASTM F1554 GRADE 36 (OR EQUAL). HOLD DOWN TENSION ANCHORS SPECIFIED AS HIGH STRENGTH (HS) MUST COMPLY WITH ASTM A 193 GRADE B7 (OR EQUAL). TENSION ANCHORS (BOTH GRADES) CONNECT TO THE UPPER AND LOWER PANELS WITH HARDENED ROUND WASHERS AND GRADE 8 NUTS. A *HARDY FRAME*® HFSW STACKING WASHER IS REQUIRED IN THE TOP CHANNEL OF THE LOWER PANEL (AVAILABLE PRE-WELDED IN A *HARDY FRAME*® "STK" PANEL). ALTERNATE WASHERS ARE (2 EA) ROUND-FLAT OR (2 EA) SAE WASHERS AT EACH ANCHOR CONNECTION. ALTERNATE NUTS ARE 2H HEAVY HEX.
- 1/4" DIAMETER MITEK® PRO SERIES™ WS SCREWS. LENGTH IS 3" (MINIMUM) WHEN ATTACHING DIRECTLY TO THE COLLECTOR AND 4-1/2" (MINIMUM) WHEN INSTALLING A 2x FILLER ABOVE THE PANEL.
- 1/4" DIAMETER MITEK® PRO SERIES™ WS SCREWS. LENGTH IS 4-1/2" (MINIMUM) AT CONNECTIONS TO FLOOR SYSTEMS AND BEAMS BELOW.
- 1/4" DIAMETER SCREWS ARE REQUIRED AT THE EDGES WHEN INSTALLING A FILLER GREATER THAN 1-1/2 INCH ABOVE OR WHEN SPECIFIED BY THE DESIGN PROFESSIONAL.

INSTALLATION ON FLOOR SYSTEMS WITH *HARDY FRAME*® BEARING PLATE (HFXBP)

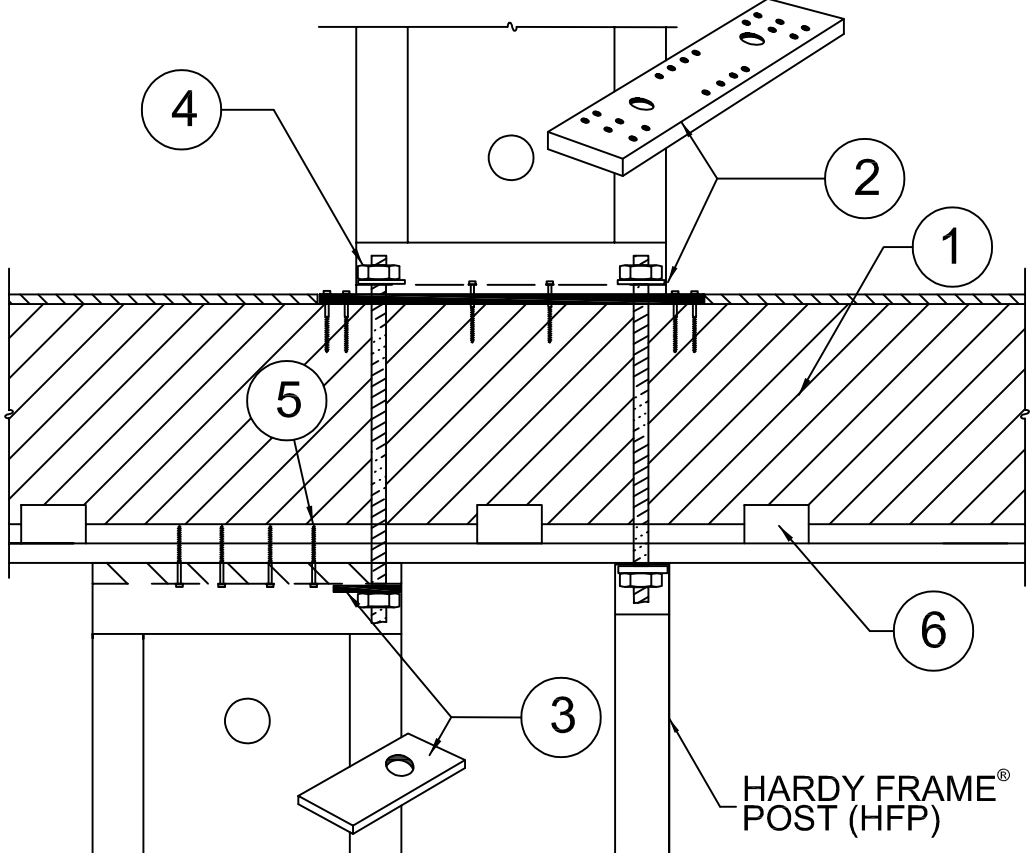
- WITH HOLES PRE-DRILLED FOR 1-1/8" DIA. TENSION ANCHORS, INSTALL A SOLID 4x (MINIMUM) RIM IN FLOOR SYSTEM AT PANEL LOCATION. ALLOWABLE VALUE TABLES ASSUME THE RIM IS ENGINEERED WOOD PRODUCT (EWP).
- NOTCH FLOOR SHEATHING THEN INSTALL HFXBP ON RIM WITH 6 EACH 1/4"x4-1/2" (MIN) "WS" SCREWS AT EACH END.
- PLACE PANEL ON HFXBP.
- WHEN STACKING PANELS, INSTALL "HFSW" STACKING WASHERS IN THE TOP CHANNEL OF THE LOWER PANEL. CONNECT LOWER TO UPPER PANELS WITH TENSION ANCHORS (GRADE PER PLANS) AND SECURE AT BOTH ENDS WITH HARDENED ROUND WASHERS AND GRADE 8 NUTS TO BE SNUG TIGHT. *HARDY FRAME*® "STK" PANELS THAT INCLUDE "HFSW" STACKING WASHERS PRE-WELDED IN THE TOP CHANNEL ARE AVAILABLE.
- WHEN MORE THAN 12 SCREWS ARE REQUIRED FOR THE BOTTOM CONNECTION OR JOINTS IN FRAMING MEMBERS OCCUR AT SCREW LOCATIONS, INSTALL ADDITIONAL 1/4"x4-1/2" WS SCREWS THROUGH THE BASE OF PANEL WHERE THEY ALIGN WITH HOLES IN THE HFXBP.
- FOR STANDARD WALL HEIGHTS, INSTALL A 2x FILLER ABOVE PANEL (DTL 5/HFX2). FOR FILLERS GREATER THAN 1-1/2 IN. SEE DETAIL 6/HFX2.

NOTE: INSTALLATIONS MAY VARY WITH JOB SPECIFIC CONDITIONS AND/OR SPECIFICATIONS BY THE BUILDING DESIGN PROFESSIONAL.



- 4x (MIN) RIM, ALLOWABLE VALUE TABLES ASSUME ENGINEERED WOOD PRODUCT.
- NOTCH FLOOR SHEATHING THEN INSTALL *HARDY FRAME*® BEARING PLATE (HFXBP) AND PANEL PER INSTALLATION NOTES 3-6, DETAIL B/HFX3.
- HARDY FRAME*® STACKING WASHER (HFSW) AT TOP OF PANEL REQUIRED WHEN CONNECTING TO TENSION ANCHOR FROM ABOVE.
- 1-1/8" DIA. HOLD DOWN, HFSW AND N&W PER TABLE NOTE 1 ARE PROVIDED IN *HARDY FRAME*® HFTC KIT.
- 1/4" x 4-1/2" (MIN) WS SCREWS, QUANTITY PER TABLE.
- USP MP4F CONNECTORS, QUANTITY BY BUILDING DESIGN PROFESSIONAL.

STAGGERED THRU-BOLT



- 4x (MIN) RIM, ALLOWABLE VALUE TABLES ASSUME ENGINEERED WOOD PRODUCT.
- NOTCH FLOOR SHEATHING THEN INSTALL *HARDY FRAME*® BEARING PLATE (HFXBP) AND PANEL PER INSTALLATION NOTES 3-6, DETAIL B/HFX3.
- HARDY FRAME*® STACKING WASHER (HFSW) AT TOP OF PANEL REQUIRED WHEN CONNECTING TO TENSION ANCHOR FROM ABOVE.
- 1-1/8" DIA. HOLD DOWN, HFSW AND N&W PER TABLE NOTE 1 ARE PROVIDED IN *HARDY FRAME*® HFTC KIT.
- 1/4" x 4-1/2" (MIN) WS SCREWS, QUANTITY PER TABLE.
- USP MP4F CONNECTORS, QUANTITY BY BUILDING DESIGN PROFESSIONAL.

STAGGERED-HFP POST

REVISIONS DATE

FLOOR SYSTEM DETAILS - HFX PANELS

THIS DETAIL SHEET IS NOT PROPRIETARY AND IS NOT REQUIRED FOR PLAN SUBMITTAL WITH MITEK® *HARDY FRAME*® PRODUCTS

HARDY FRAME SHEAR WALL SYSTEMS  
16023 SWINGLEY RIDGE RD  
CHESTERFIELD, MO 63017  
(800) 325-8075  
WWW.HARDYFRAME.COM

Mitek®

DATE:  
1-1-2023

HFX3



CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Sharon Drive Addition  
Calculation Description: Title 24 Analysis

GENERAL INFORMATION			
01	Project Name	Sharon Drive Addition	
02	Run Title	Title 24 Analysis	
03	Project Location	113 Sharon Drive	
04	City	Pomona	
06	Zip code	91767	05 Standards Version 2022
08	Climate Zone	9	07 Software Version EnergyPro 9.2
10	Building Type	Single family	09 Front Orientation (deg/ Cardinal) 180
12	Project Scope	Addition and/or Alteration	11 Number of Dwelling Units 1
14	Addition Cond. Floor Area (ft²)	724	13 Number of Bedrooms 7
16	Existing Cond. Floor Area (ft²)	1288	15 Number of Stories 2
18	Total Cond. Floor Area (ft²)	2012	17 Fenestration Average U-factor 0.3
20	ADU Bedroom Count	n/a	19 Glazing Percentage (%) 16.92%
22	Fuel Type	Natural gas	21 ADU Conditioned Floor Area n/a
			23 No Dwelling Unit: No

COMPLIANCE RESULTS	
01	Building Complies with Computer Performance
02	This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider.
03	This building incorporates one or more Special Features shown below

Registration Number: 223-P016625513A-000-000-0000000-0000  
CA Building Energy Efficiency Standards - 2022 Residential Compliance

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Sharon Drive Addition  
Calculation Description: Title 24 Analysis

ZONE INFORMATION						
01	02	03	04	05	06	07
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft²)	Avg. Ceiling Height	Water Heating System 1	Status
Existing Living Area	Conditioned	HVAC System1	1288	8	DHW Sys 1	Existing Unchanged
New 1st Floor Living Area	Conditioned	HVAC System1	158	8	DHW Sys 1	New
New 2nd Floor Living Area	Conditioned	2nd Floor HVAC System2	566	8	DHW Sys 1	New

OPAQUE SURFACES										
01	02	03	04	05	06	07	08	09	10	11
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft²)	Window and Door Area (ft2)	Tilt (deg)	Wall Exceptions	Status	Verified Existing Condition
Front Wall	Existing Living Area	R-0 Wall	180	Front	144	92	90	none	Existing	No
Left Wall	Existing Living Area	R-0 Wall	270	Left	208	54	90	none	Existing	No
Rear Wall	Existing Living Area	R-0 Wall	0	Back	400	139	90	none	Existing	No
Right Wall	Existing Living Area	R-0 Wall	90	Right	208	30	90	none	Existing	No
Front Wall 2	New 1st Floor Living Area	R-15 Wall	180	Front	112	38	90	Extension	New	n/a
Left Wall 2	New 1st Floor Living Area	R-15 Wall	270	Left	48	0	90	Extension	New	n/a
Right Wall 2	New 1st Floor Living Area	R-15 Wall	90	Right	56	5	90	Extension	New	n/a
Front Wall 3	New 2nd Floor Living Area	R-15 Wall	180	Front	152	30	90	none	New	n/a
Left Wall 3	New 2nd Floor Living Area	R-15 Wall	270	Left	240	33	90	none	New	n/a

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CA Building Energy Efficiency Standards - 2022 Residential Compliance

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Sharon Drive Addition  
Calculation Description: Title 24 Analysis

FENESTRATION / GLAZING															
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading	Status	Verified Existing Condition
Window 5	Window	Rear Wall	Back	0			1	21	1.19	Table 110.6-A	0.83	Table 110.6-B	Bug Screen	Existing	No
Window 6	Window	Rear Wall	Back	0			1	21	1.19	Table 110.6-A	0.83	Table 110.6-B	Bug Screen	Existing	No
French Door	Window	Rear Wall	Back	0			1	20	1.19	Table 110.6-A	0.83	Table 110.6-B	Bug Screen	Existing	No
Window 7	Window	Rear Wall	Back	0			1	17	1.19	Table 110.6-A	0.83	Table 110.6-B	Bug Screen	Existing	No
Window 8	Window	Rear Wall	Back	0			1	30	1.19	Table 110.6-A	0.83	Table 110.6-B	Bug Screen	Existing	No
Window 9	Window	Rear Wall	Back	0			1	30	1.19	Table 110.6-A	0.83	Table 110.6-B	Bug Screen	Existing	No
Window 10	Window	Right Wall	Right	90			1	10	1.19	Table 110.6-A	0.83	Table 110.6-B	Bug Screen	Existing	No
Window 101	Window	Right Wall 2	Right	90			1	5	0.3	NFRC	0.23	NFRC	Bug Screen	New	NA
Window 203	Window	Front Wall 3	Front	180			1	15	0.3	NFRC	0.23	NFRC	Bug Screen	New	NA
Window 204	Window	Front Wall 3	Front	180			1	15	0.3	NFRC	0.23	NFRC	Bug Screen	New	NA
Window 205	Window	Left Wall 3	Left	270			1	9	0.3	NFRC	0.23	NFRC	Bug Screen	New	NA
Window 206	Window	Left Wall 3	Left	270			1	15	0.3	NFRC	0.23	NFRC	Bug Screen	New	NA
Window 207	Window	Left Wall 3	Left	270			1	9	0.3	NFRC	0.23	NFRC	Bug Screen	New	NA
Window 208	Window	Rear Wall 2	Back	0			1	10.5	0.3	NFRC	0.23	NFRC	Bug Screen	New	NA

Registration Number: 223-P016625513A-000-000-0000000-0000  
CA Building Energy Efficiency Standards - 2022 Residential Compliance

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Sharon Drive Addition  
Calculation Description: Title 24 Analysis

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	0	22.04	0	23.49	0	-1.45
Space Cooling	0	60.71	0	60.63	0	0.08
IAQ Ventilation	0	0	0	0	0	0
Water Heating	0	23.26	0	20.6	0	2.66
Self Utilization/Flexibility Credit						
Efficiency Compliance Total	0	106.01	0	104.72	0	1.29
Photovoltaics	0		0			
Battery			0			
Flexibility						
Indoor Lighting	0	7.11	0	7.11		
Appl. & Cooking	0	28.84	0	28.84		
Plug Loads	0	46.52	0	46.52		
Outdoor Lighting	0	1.64	0	1.64		
TOTAL COMPLIANCE	0	190.12	0	188.83		

Registration Number: 223-P016625513A-000-000-0000000-0000  
CA Building Energy Efficiency Standards - 2022 Residential Compliance

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Sharon Drive Addition  
Calculation Description: Title 24 Analysis

OPAQUE SURFACES										
01	02	03	04	05	06	07	08	09	10	11
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft²)	Window and Door Area (ft2)	Tilt (deg)	Wall Exceptions	Status	Verified Existing Condition
Rear Wall 2	New 2nd Floor Living Area	R-15 Wall	0	Back	152	25	90	none	New	n/a
Right Wall 3	New 2nd Floor Living Area	R-15 Wall	90	Right	240	22.5	90	none	New	n/a
Interior Surface	New 1st Floor Living Area>>Existing Living Area	R-0 Wall1	n/a	n/a	200	0	n/a		New	n/a
Roof 2	Existing Living Area	R-11 Roof Attic	n/a	n/a	722	n/a	n/a		Existing	No
Roof 3	New 1st Floor Living Area	R-30 Roof Attic	n/a	n/a	158	n/a	n/a		New	n/a
Roof 4	New 2nd Floor Living Area	R-30 Roof Attic	n/a	n/a	566	n/a	n/a		New	n/a
Raised Floor	Existing Living Area	R-0 Floor Crawlspace	n/a	n/a	1288	n/a	n/a		Existing	No
Raised Floor 2	New 1st Floor Living Area	R-19 Floor Crawlspace	n/a	n/a	158	n/a	n/a		New	n/a
Interior Surface 2	New 2nd Floor Living Area	R-0 Floor No Crawlspace	n/a	n/a	566	n/a	n/a		New	n/a
Front Wall 4	___Garage___	R-0 Wall	180	Front	144	0	90	none	Existing	No
Left Wall 4	___Garage___	R-0 Wall	270	Left	208	0	90	none	Existing	No
Rear Wall 3	___Garage___	R-0 Wall	0	Back	400	0	90	none	Existing	No
Right Wall 4	___Garage___	R-0 Wall	90	Right	208	0	90	none	Existing	No

Registration Number: 223-P016625513A-000-000-0000000-0000  
CA Building Energy Efficiency Standards - 2022 Residential Compliance

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Sharon Drive Addition  
Calculation Description: Title 24 Analysis

FENESTRATION / GLAZING															
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading	Status	Verified Existing Condition
Window 209	Window	Rear Wall 2	Back	0			1	10.5	0.3	NFRC	0.23	NFRC	Bug Screen	New	NA
Window 210	Window	Rear Wall 2	Back	0			1	4	0.3	NFRC	0.23	NFRC	Bug Screen	New	NA
Window 201	Window	Right Wall 3	Right	90			1	13.5	0.3	NFRC	0.23	NFRC	Bug Screen	New	NA
Window 202	Window	Right Wall 3	Right	90			1	9	0.3	NFRC	0.23	NFRC	Bug Screen	New	NA

OPAQUE DOORS					
01	02	03	04	05	06
Name	Side of Building	Area (ft²)	U-factor	Status	Verified Existing Condition
Door	Right Wall	20	0.5	Existing	No
Door 101	Front Wall 2	20	0.5	New	n/a
Door 102	Front Wall 2	18	0.5	New	n/a

SLAB FLOORS									
01	02	03	04	05	06	07	08	09	10
Name	Zone	Area (ft²)	Perimeter (ft)	Edge Insul. R-value and Depth	Edge Insul. R-value and Depth	Carpeted Fraction	Heated	Status	Verified Existing Condition
Slab-on-Grade	___Garage___	390	78	none	0	0%	No	Existing	No

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CA Building Energy Efficiency Standards - 2022 Residential Compliance

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Sharon Drive Addition  
Calculation Description: Title 24 Analysis

ENERGY USE INTENSITY				
	Standard Design (kBtu/ft² - yr )	Proposed Design (kBtu/ft² - yr )	Compliance Margin (kBtu/ft² - yr )	Margin Percentage
Gross EUI¹	27.56	26.93	0.63	2.29
Net EUI²	27.56	26.93	0.63	2.29

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

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

- Cool roof
- New ductwork added is less than 25 ft. in length
- Variable capacity heat pump compliance option (verification details from VCHP Staff report, Appendix B, and RA3)

**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 CEsRs and CEIRs are required to be completed in the HERS Registry.

- Verified Refrigerant Charge
- Airflow in habitable rooms (SC3.1.4.1.7)
- Refrigerant Charge verification required if a refrigerant containing component is altered
- 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)
- Duct Sealing required if a duct system component, plenum, or air handling unit is altered

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
Sharon Drive Addition	2012	1	7	3	0	1

Registration Number: 223-P016625513A-000-000-0000000-0000  
CA Building Energy Efficiency Standards - 2022 Residential Compliance

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Sharon Drive Addition  
Calculation Description: Title 24 Analysis

OPAQUE SURFACES - CATHEDRAL CEILINGS													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Zone	Construction	Azimuth	Orientation	Area (ft²)	Skylight Area (ft²)	Roof Rise (x in 12)	Roof Reflectance	Roof Emittance	Cool Roof	Status	Verified Existing Condition	Existing Construction
Roof	___Garage___	R-0 Roof No Attic	0	Back	390	0	4	0.1	0.85	No	Existing	No	

ATTIC									
01	02	03	04	05	06	07	08	09	10
Name	Construction	Type	Roof Rise (x in 12)	Roof Reflectance	Roof Emittance	Radiant Barrier	Cool Roof	Status	Verified Existing Condition
Attic Existing Living Area	Attic RoofExisting Living Area	Ventilated	4	0.1	0.85	No	No	Existing	No
Attic New 1st Floor Living Area	Attic RoofNew 1st Floor Living Area	Ventilated	4	0.63	0.75	Yes	Yes	New	n/a
Attic New 2nd Floor Living Area	Attic RoofNew 2nd Floor Living Area	Ventilated	4	0.63	0.75	Yes	Yes	New	n/a

FENESTRATION / GLAZING															
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
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	Status	Verified Existing Condition
Window	Window	Front Wall	Front	180			1	11	1.19	Table 110.6-A	0.83	Table 110.6-B	Bug Screen	Existing	No
Window 2	Window	Front Wall	Front	180			1	11	1.19	Table 110.6-A	0.83	Table 110.6-B	Bug Screen	Existing	No
Window 3	Window	Left Wall	Left	270			1	32	1.19	Table 110.6-A	0.83	Table 110.6-B	Bug Screen	Existing	No
Window 4	Window	Left Wall	Left	270			1	22	1.19	Table 110.6-A	0.83	Table 110.6-B	Bug Screen	Existing	No



CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

CF1R-PRF-01E

Project Name: Sharon Drive Addition

Calculation Date/Time: 2023-11-29T13:03:04-08:00

Calculation Description: Title 24 Analysis

Input File Name: Sharon Drive Addition (113).ribd22x

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01	02	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
R-0 Floor Crawlspace	Floors Over Crawlspace	Wood Framed Floor	2x12 @ 16 in. O. C.	R-0	None / None	0.216	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x12
R-19 Floor Crawlspace	Floors Over Crawlspace	Wood Framed Floor	2x10 @ 16 in. O. C.	R-19	None / None	0.046	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: R-19 / 2x10
R-11 Roof Attic	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-11	None / None	0.081	Over Ceiling Joists: R-1.9 insul. Cavity / Frame: R-9.1 / 2x4 Inside Finish: Gypsum Board
R-30 Roof Attic	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-30	None / None	0.032	Over Ceiling Joists: R-20.9 insul. Cavity / Frame: R-9.1 / 2x4 Inside Finish: Gypsum Board
R-0 Floor No Crawlspace	Interior Floors	Wood Framed Floor	2x12 @ 16 in. O. C.	R-0	None / None	0.196	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x12 Ceiling Below 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
Not Required	Not Required	N/A	n/a	n/a

Registration Number:

223-P016625513A-000-000-0000000-0000

Registration Date/Time:

2023-12-07 15:03:20

HERS Provider:

CalCERTS, Inc.

CA Building Energy Efficiency Standards - 2022 Residential Compliance

Report Version: 2022.0.000

Schema Version: rev 20220901

Report Generated: 2023-11-29 13:04:00

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

CF1R-PRF-01E

Project Name: Sharon Drive Addition

Calculation Date/Time: 2023-11-29T13:03:04-08:00

Calculation Description: Title 24 Analysis

Input File Name: Sharon Drive Addition (113).ribd22x

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01	02	03	04	05	06	07	08	09	10	11	12
Name	System Type	Distribution Type	Water Heater Name	Number of Units	Solar Heating System	Compact Distribution	HERS Verification	Water Heater Name (#)	Status	Verified Existing Condition	Existing Water Heating System
DHW Sys 1	Domestic Hot Water (DHW)	Standard	DHW Heater 1	1	n/a	None	n/a	DHW Heater 1 (1)	New	NA	

WATER HEATERS

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
Name	Heating Element Type	Tank Type	# of Units	Tank Vol. (gal)	Heating Efficiency Type	Efficiency	Rated Input Type	Input Rating or Pilot	Tank Insulation R-value (Int/Ext)	Standby Loss or Recovery Eff	1st Ht. Rating or Flow Rate	Tank Location	Status	Verified Existing Condition
DHW Heater 1	Gas	Consumer Instantaneous	1	0	UEF	0.95	Btu/Hr	200000	0	n/a	n/a		New	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	None	Not Required	Not Required

SPACE CONDITIONING SYSTEMS

01	02	03	04	05	06	07	08	09	10	11	12
Name	System Type	Heating Unit Name	Heating Equipment Count	Cooling Unit Name	Cooling Equipment Count	Fan Name	Distribution Name	Required Thermostat Type	Status	Verified Existing Condition	Existing HVAC System
HVAC System1	Heating and cooling system other	Heating Component 1	1	Cooling Component 1	1	HVAC Fan 1	Air Distribution System 1	n/a	Existing	No	

Registration Number:

223-P016625513A-000-000-0000000-0000

Registration Date/Time:

2023-12-07 15:03:20

HERS Provider:

CalCERTS, Inc.

CA Building Energy Efficiency Standards - 2022 Residential Compliance

Report Version: 2022.0.000

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Report Generated: 2023-11-29 13:04:00

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

CF1R-PRF-01E

Project Name: Sharon Drive Addition

Calculation Date/Time: 2023-11-29T13:03:04-08:00

Calculation Description: Title 24 Analysis

Input File Name: Sharon Drive Addition (113).ribd22x

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01	02	03	04	05	06	07	08	09	10	11	12
Name	System Type	Heating Unit Name	Heating Equipment Count	Cooling Unit Name	Cooling Equipment Count	Fan Name	Distribution Name	Required Thermostat Type	Status	Verified Existing Condition	Existing HVAC System
2nd Floor HVAC System2	Heat pump heating cooling	Heat Pump System 2	1	Heat Pump System 2	1	n/a	n/a	Setback	New	No	

HVAC - HEATING UNIT TYPES

01	02	03	04	05
Name	System Type	Number of Units	Heating Efficiency	Heating Unit Brand
Heating Component 1	Central gas furnace	1	AFUE - 80	n/a

HVAC - COOLING UNIT TYPES

01	02	03	04	05	06	07	08	09
Name	System Type	Number of Units	Efficiency Metric	Efficiency EER/EER2/CEER	Efficiency SEER/SEER2	Zonally Controlled	Multi-speed Compressor	HERS Verification
Cooling Component 1	Central split AC	1	EER/SEER	11.7	14	Not Zonal	Single Speed	Cooling Component 1-hers-cool

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	HEHP/HS PF2/COP	Cap 47	Cap 17	Cooling Efficiency Type	SEER/SE ERZ	EER/EER 2/CEER	Zonally Controlled	Compressor Type	HERS Verification
Heat Pump System 2	VCHP-ductless	1	HSPF	8.8	24000	19000	EERSEER	15	12.2	Not Zonal	Single Speed	Heat Pump System 2-hers-htpump

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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 2-hers-htpump	Not Required	0	Not Required	Not Required	Yes	No	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 R4.3.3 and SC3.3.3.4.1	Certified non-continuous Fan	Indoor Fan not Running Continuously
Heat Pump System 2	Not required	Required	Required	Required	Not required	Not required	Not required	Not required	Not required

HVAC - DISTRIBUTION SYSTEMS

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Name	Type	Design Type	Duct Ins. R-value	Duct Location	Surface Area	Bypass	Duct Leakage	HERS Verification	Status	Verified Existing Condition	Existing Distribution system	New Ducts 25 ft			
Air Distribution System 1	Unconditioned attic	Non-Verified	R-6	R-6	Attic	Attic	n/a	n/a	No Bypass Duct	Existing (not specified)	Air Distribution System 1-hers-dist	Existing + New	No		No

HVAC - FAN SYSTEMS

01	02	03	04
Name	Type	Fan Power (Watts/CFM)	Name
HVAC Fan 1	HVAC Fan	0.58	HVAC Fan 1-hers-fan

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01	02	03
Name	Verified Fan Watt Draw	Required Fan Efficacy (Watts/CFM)
HVAC Fan 1-hers-fan	Not Required	0

HERS RATER VERIFICATION OF EXISTING CONDITIONS

01	02	03
Name	Verified Fan Watt Draw	Required Fan Efficacy (Watts/CFM)
HVAC Fan 1-hers-fan	Not Required	0

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Timothy Carstairs

Documentation Author Signature: Timothy Carstairs

Signature Date: 2023-12-07 13:50:10

Address: 2238 Bayview Heights Drive, Suite E

CEA/HERS Certification Identification (if applicable): r160610042

City/State/Zip: Los Osos, CA 93402

Phone: 805-904-9048

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: Okhee Choi

Responsible Designer Signature: Okhee Choi

Signature Date: 2023-12-07 15:03:20

Address: 3100 Chino Hills Pkwy Unit 422

License: NA

City/State/Zip: Chino Hills, CA 91709

Phone: 847-791-5809

Digitally signed by CalCERTS. This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.



Easy to Verify at CalCERTS.com

Registration Number:

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AGC

American General Corporation

34941 Calle Del Sol

Capitranco Beach, CA 92624

Phone (949) 542-8777 / 101

email admin@amgencorp.com

CCG DESIGN

3100 CHINO HILLS PKWY SUITE 422 CHINO HILLS, CA 91709

Phone (64) 681-2122 Email info@ccgdesign.com WWW.CCGDESIGN.COM

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SCOPE DOCUMENT DRAWINGS: SELL

THIS DRAWING SET INDICATES GENERAL SCOPE OF THE PROJECT IN TERMS OF THE BUILDING SYSTEMS AND DOES NOT INDICATE THE EXACT LOCATION OR SPECIFICATIONS OF ALL STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND OTHER SYSTEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR THE PROPER REGULATION AND COMPLETION OF THE WORK SHOWN AND/OR REQUIRED BY LOCAL CODE REGULATIONS.

ENTRY & SECOND FLOOR ADDITION

113 SHARON DR. POMONA, CA 91767

CAL GREEN BLDG STANDARDS CODE

3/12/24

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND TO BEST OF MY KNOWLEDGE CONFORM TO THE PERTINENT LOCAL BUILDING CODE AND REGULATIONS. GREGORY GESSLER, MARS, REGISTERED CALIFORNIA ARCHITECT, CALIFORNIA LICENSE NO. C-40389, LICENSE EXPIRATION: 11/30/2025

NO. DATE ISSUE NOTE

Drawn By: OC

Sheet No.:

Project ID: 100-34

T-2



