

ISSUED / REVISED

**SHAH DESIGNS**

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**SINGLE FAMILY RESIDENCE**

NO. 13685

STREET SYCAMORE AVE,  
CITY SAN MARTIN, CA  
ZIPCODE 95046

**SHAH DESIGNS**

DRAWN: AJ  
CHECKED: RS  
SCALE:  
DATE: 15-06-2022

**NOTES:**

- UTILITY LOCATIONS ARE ONLY APPROXIMATE AND NOT INTENDED FOR USE WITH CONSTRUCTION. INFORMATION WAS ACQUIRED FROM A FIELD SURVEY. CONTACT "USA" AT 1-800-642-2440, LOCAL UTILITY COMPANIES, AND THE COUNTY OF SANTA CLARA FOR ASSISTANCE WITH LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- ALL DISTANCES AND DIMENSIONS ARE IN FEET AND DECIMALS THEREOF.
- BUILDING LOCATIONS: NONE
- PROPERTY ADDRESS: 13685 SYCAMORE AVE., SAN MARTIN, CA 95046
- THE TOTAL AREA OF THE SUBJECT PROPERTY IS = 115,024± S.F.
- FEMA FLOOD ZONE: (ZONE AE); BASE FLOOD ELEVATION (BFE=293.0') "SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD. THE 1% ANNUAL FLOOD (100-YEAR FLOOD), ALSO KNOWN AS THE BASE FLOOD, IS THE FLOOD THAT HAS A 1% CHANCE OF BEING EQUALED OR EXCEEDED IN ANY GIVEN YEAR. THE SPECIAL FLOOD HAZARD AREA IS THE AREA SUBJECT TO FLOODING BY THE 1% ANNUAL FLOOD. THE BASE FLOOD ELEVATION IS THE WATER-SURFACE ELEVATION OF THE 1% ANNUAL CHANCE FLOOD."
- A CURRENT TITLE REPORT FOR THE SUBJECT PROPERTY WAS NOT PROVIDED BY THE OWNER AND WAS NOT EXAMINED BY KEITH NOFIELD PROFESSIONAL LAND SURVEYING. EASEMENTS OF RECORD MAY EXIST THAT ARE NOT SHOWN ON THIS MAP.
- ANY REPRODUCTION OF THIS MAP WITHOUT MY PROFESSIONAL LAND SURVEYOR'S SEAL AND SIGNATURE, IS NOT CONSIDERED AN ORIGINAL MAP.

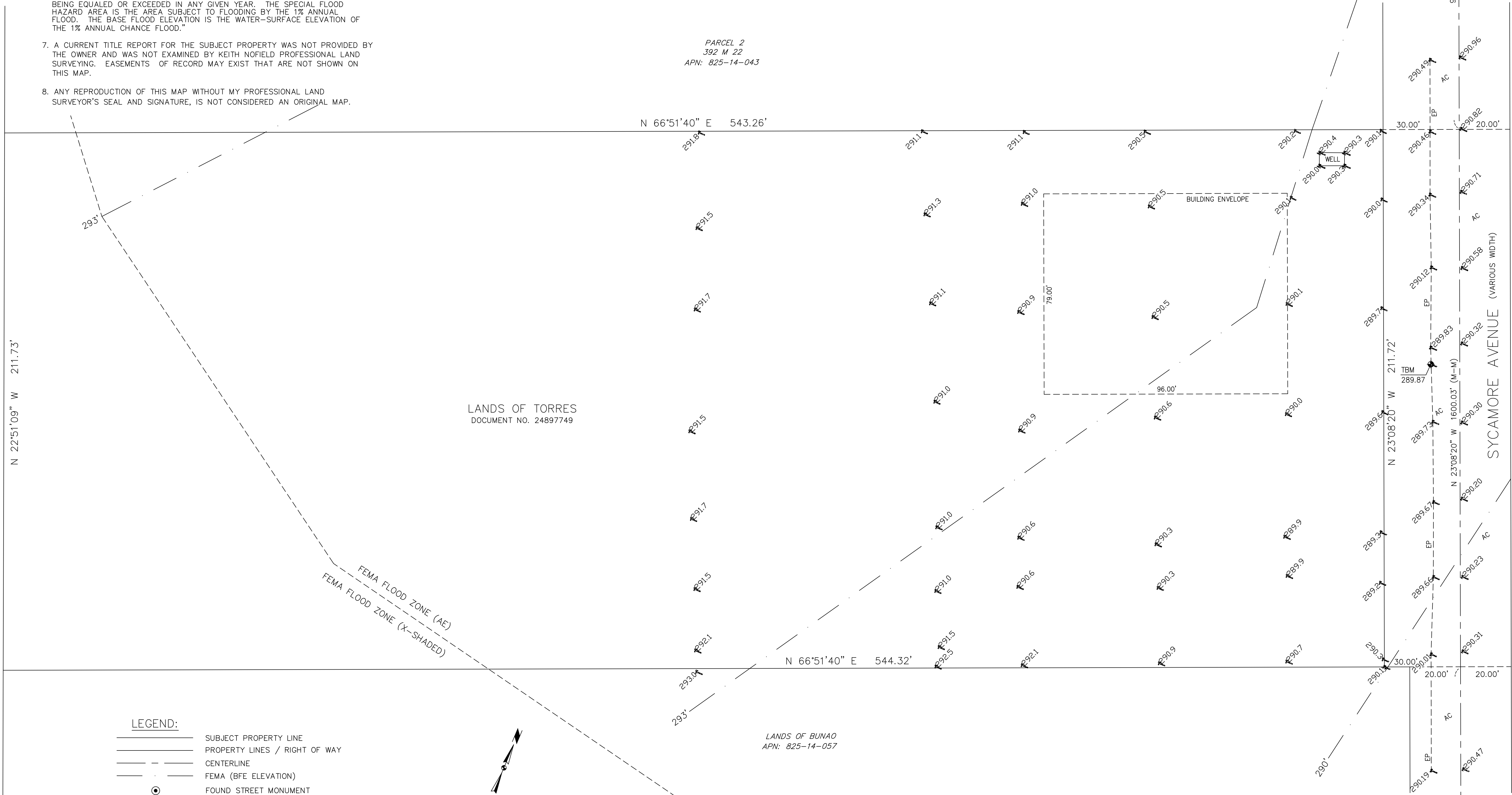
**BASIS OF BEARINGS:**

THE BEARING N 23°08'20" W FOR THE MONUMENT LINE OF SYCAMORE AVENUE, ESTABLISHED FROM TWO FOUND STREET MONUMENT IN SYCAMORE AVENUE, AS SHOWN ON THAT CERTAIN MAP ENTITLED "PARCEL MAP", FILED IN BOOK 392 OF MAPS, AT PAGE 22, WAS USED AS THE BASIS FOR THIS MAP.

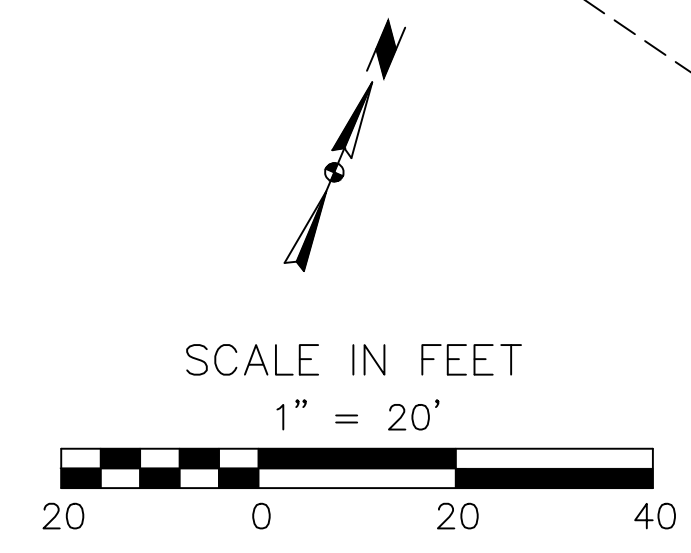
**BENCHMARK:**

TEMPORARY BENCHMARK "TBM" ELEVATION = 289.87' (NAVD 1988): ESTABLISHED ON THE TOP OF A 1/2" REBAR, SET AT THE EDGE OF ASPHALT PAVEMENT, AT THE SUBJECT PARCEL, WAS ESTABLISHED BY GPS METHODS FOR THIS PROJECT.

STATE OF CALIFORNIA  
INTERSTATE 101



- LEGEND:**
- SUBJECT PROPERTY LINE
  - PROPERTY LINES / RIGHT OF WAY
  - - - CENTERLINE
  - - - FEMA (BFE ELEVATION)
  - FOUND STREET MONUMENT
  - AC ASPHALT CONCRETE
  - BFE BASE FLOOD ELEVATION (FEMA)
  - EP EDGE OF PAVEMENT
  - (M-M) MONUMENT TO MONUMENT
  - TBM TEMPORARY BENCH MARK



PARCEL 2  
392 M 22  
APN: 825-14-043

LANDS OF TORRES  
DOCUMENT NO. 24897749

LANDS OF BUNAO  
APN: 825-14-057

**KEITH NOFIELD, PROFESSIONAL LAND SURVEYING**  
5178 MOWRY AVENUE STE. 2151, FREMONT, CA 94538  
(510) 468-2703 EMAIL: KNOF7393@GMAIL.COM

LANDS OF TORRES  
13685 SYCAMORE AVENUE  
SAN MARTIN, CA 95046  
APN: 825-14-044

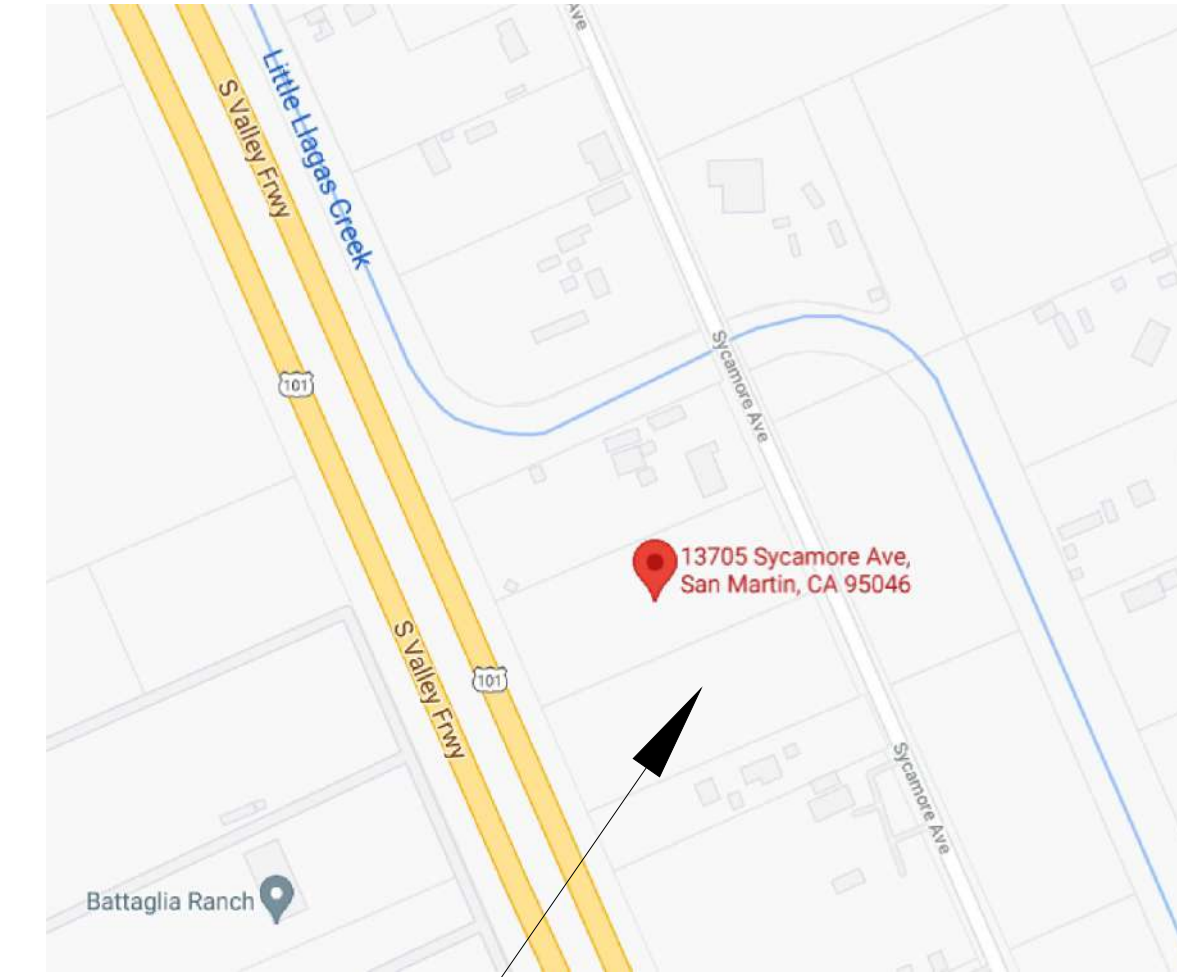
TOPOGRAPHIC SURVEY  
PARCEL 3  
PARCEL MAP  
BOOK 392 MAPS, PAGE 22

FILENAME:	21-175 TS
CHECKED BY:	
DRAWN BY:	KLN
SCALE:	1" = 20'
DATE:	1/29/2022
PROJECT NO.:	21-175
SHEET NO.:	1 of 1

# ALVARADO RESIDENCE

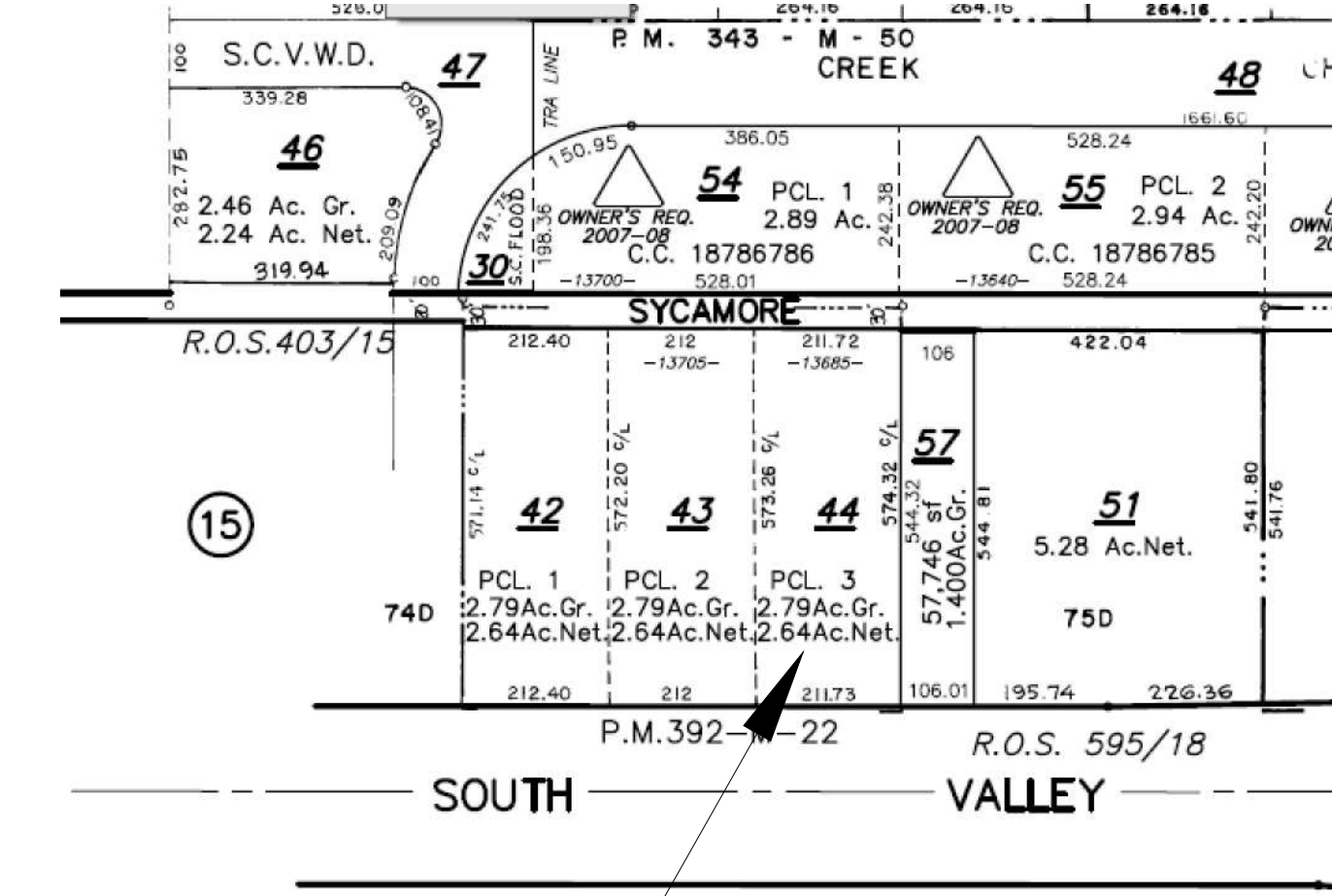
## SINGLE FAMILY RESIDENTIAL ADDITION

### VICINITY MAP



13685 SYCAMORE AVE

### PARCEL MAP



13685 SYCAMORE AVE

### PROJECT DATA

- ZONING : RR-5AC-SR
- A.P.N. # 825-14-044
- BUILDING OCCUPANCY : R-3/U
- TYPE OF CONST : TYPE V-B
- NET LOT AREA : 114,998 SQ. FT

- PROPOSED:  
5 BEDROOMS, 5.5 BATHROOM, 3 BED ADU,  
& WAREHOUSE

### APPLICABLE CODES

- 2019 CALIFORNIA BUILDING CODE (2018 IBC)
- 2019 CALIFORNIA RESIDENTIAL CODE (2018 IRC)
- 2019 CALIFORNIA ELECTRICAL CODE (2017 NEC)
- 2019 CALIFORNIA MECHANICAL CODE (2018 IMC)
- 2019 CALIFORNIA PLUMBING CODE (2018 IPC)
- 2019 CALIFORNIA FIRE CODE
- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN)
- 2019 CALIFORNIA ENERGY CODE
- 2018 INTERNATIONAL PROPERTY MAINTENANCE CODE

### NOTES

A.P.N. # 825-14-044

### SCOPE OF WORK

- NEW 4238 SF SINGLE FAMILY RESIDENCE WITH ATTACHED GARAGE.
- NEW ELECTRICAL AND GAS LINE

### DATA SHEET

LOCATION: 13685 SYCAMORE AVE			
EXISTING USE: EMPTY LOT		APPLICANT: ALVARADO CONSTRUCTION	
PROPOSED USE: SINGLE FAMILY RES.		PROPERTY OWNER: ALEJANDRO ALVARADO	
ZONING: RR-5AC-SR		APPLICATION(S): BUILDING PERMIT	
<b>DEVELOPMENT STANDARD</b>		<b>PROPOSED DEVELOPMENT</b>	
LOT AREA	114,998.00	SF	
LOT WIDTH	211.73	FT.	
LOT DEPTH	573.26	FT.	
FRONT SETBACK	30'-0"	FT.	
REAR SETBACK	440'-10"	FT.	
LEFT SETBACK	99'-3"	FT.	
RIGHT SETBACK	30'-0"	FT.	
LOT COVERAGE	12,638.00	SF	
	11.0%		
FLOOR AREA SQ.FT	LIVING AREA	4,237.00	SF
	GARAGE	804.00	SF
	PORCH	287.00	SF
TOTAL FLOOR AREA	5,328.00	SF	
BLDG. HIEGHT	26' - 10"	FT	
LANDSCAPING	90,818.00	79.0% SF	
PAVING	11,542.00	10.0% SF	
PARKING	3 COVERED SPACE MAIN HOUSE, 2 UNCOVERED SPACE AT DRIVEWAY		
TREES	# OF EXISTING heritage TREES	# OF NON- heritage	# OF NEW TREES
	0	0	8
	# OF EXISTING heritage TREES TO BE REMOVED	# OF NON- heritage TREES TO BE REMOVED	TOTAL # OF TREES
	0	0	8

### DRAWING INDEX

- |                                       |                 |
|---------------------------------------|-----------------|
| FRONT ELEVATION SURVEY                | SHEET -         |
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| PROPOSED SITE PLAN                    | SHEET A0.1      |
| GRADING PLAN                          | SHEET A0.2      |
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| CALGREEN MANDATORY CHECKLIST          | SHEET CG1       |
| PROPOSED MAIN HOUSE FLOOR & ROOF PLAN | SHEET CG2       |
| PROPOSED MAIN HOUSE ELECTRICAL PLAN   | SHEET A1        |
| PROPOSED MAIN HOUSE ELEVATION         | SHEET A2        |
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| STRUCTURAL GENERAL NOTES              | SHEET BM1       |
| FOUNDATION & FRAMING PLAN             | SHEET BM2       |
| FRAMING PLAN                          | SHEET S1        |
| STRUCTURAL DETAILS                    | SHEET S2        |
|                                       | SHEET S3        |
|                                       | SHEET SD1 - SD4 |
|                                       | SHEET T1 - T2   |

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ZIPCODE 95046

### TITLE SHEET

DRAWN: AJ  
CHECKED: RS  
SCALE:  
DATE: 15-06-2022

**A0.1**

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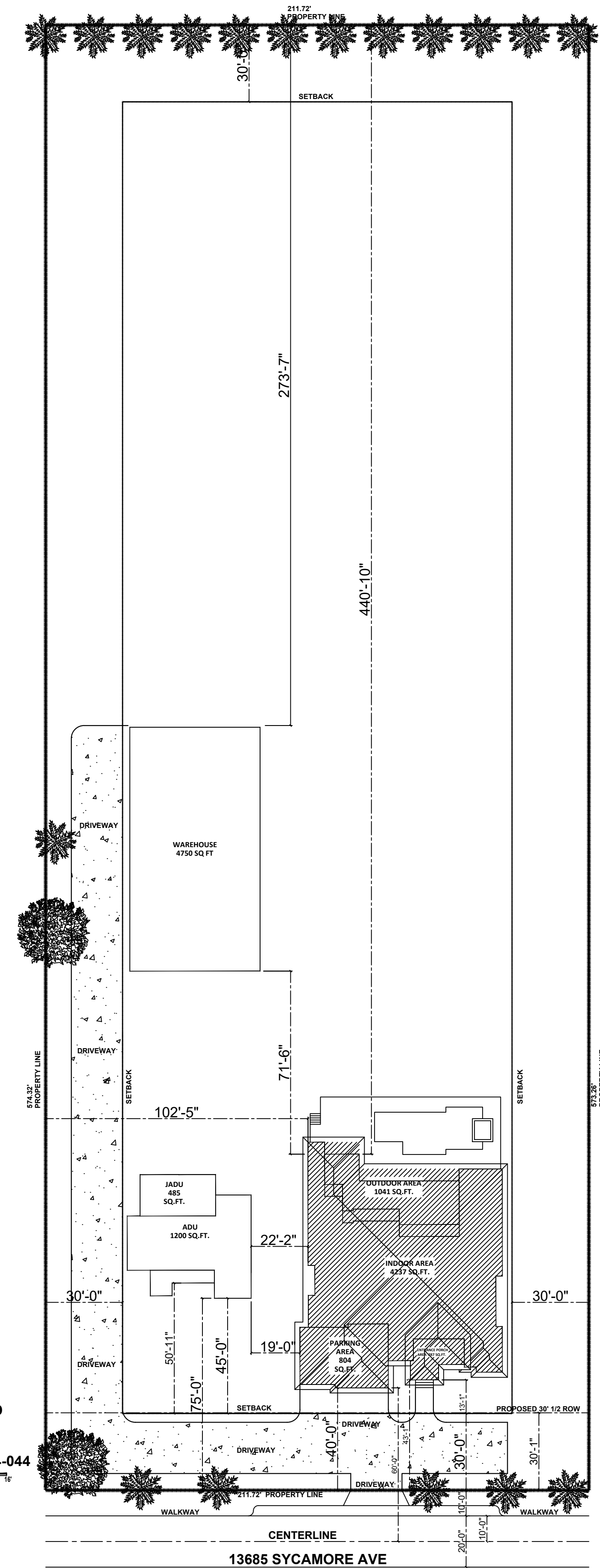
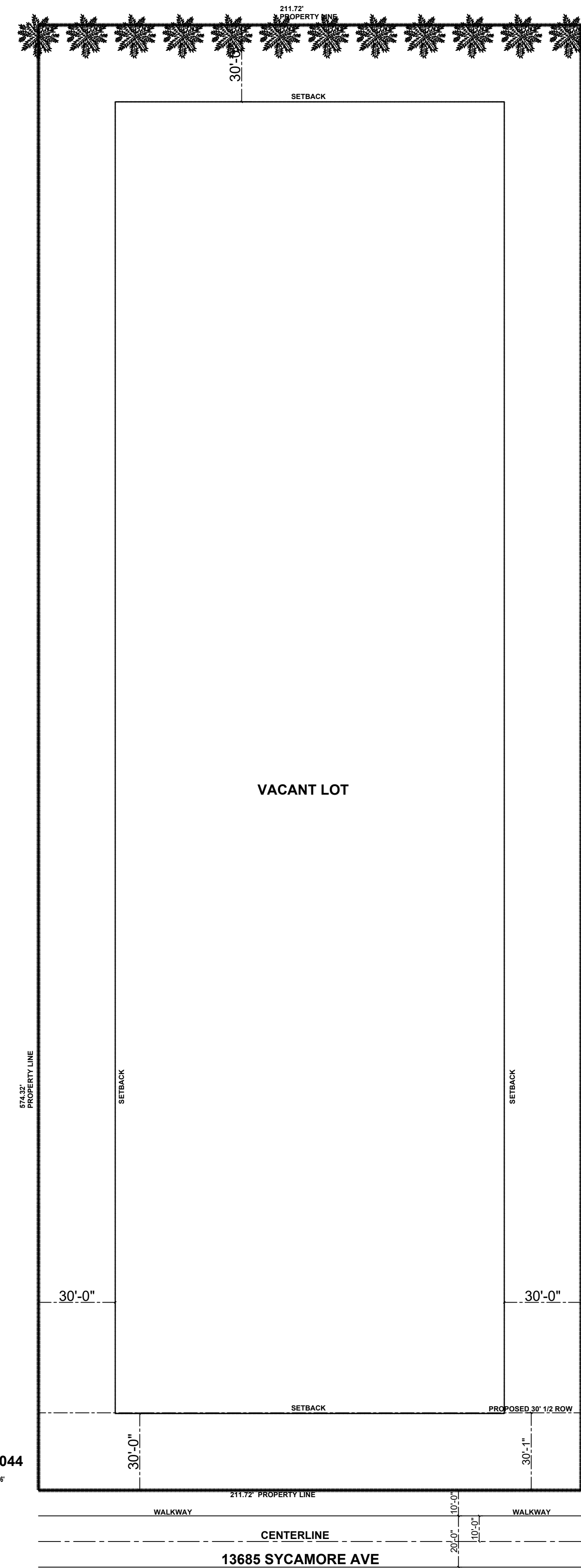
DRAWN: AJ

CHECKED: BS

SCALE:

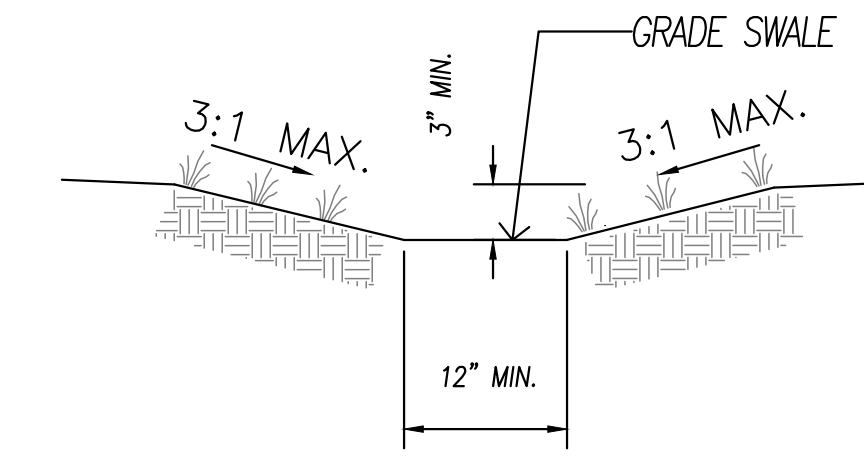
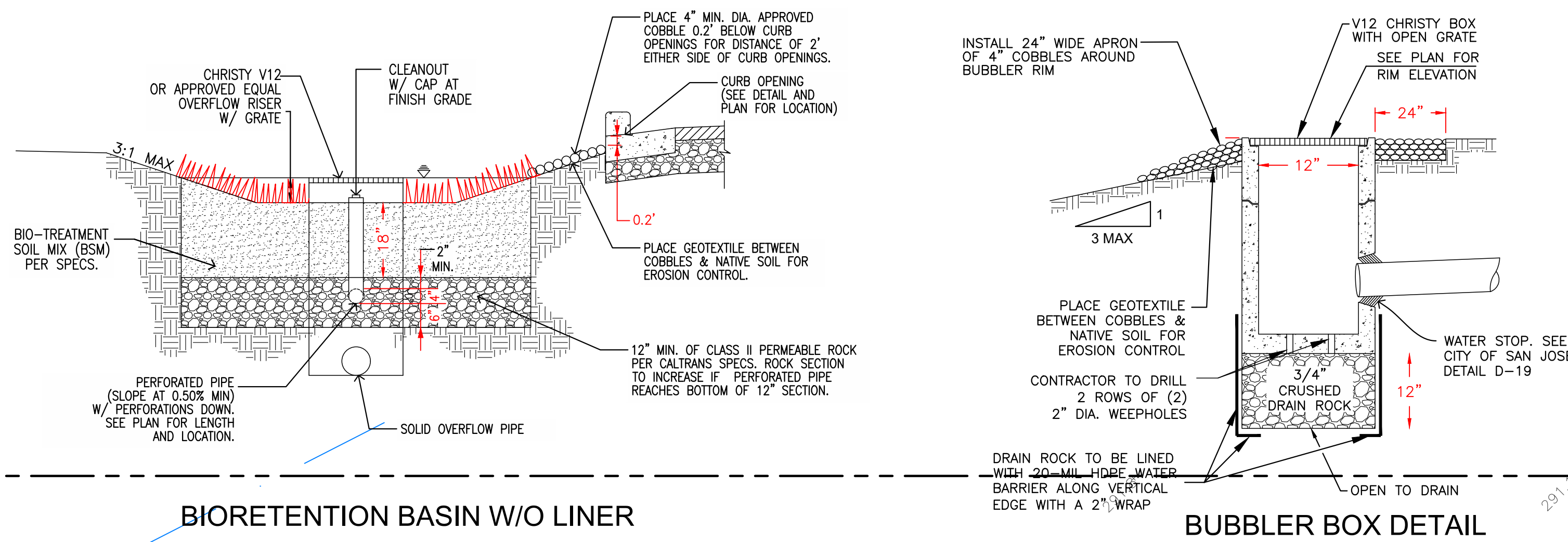
DATE: 15-06-2022

**A0.2**



**EXISTING SITE PLAN**  
1/32"=1'-0"  
APN 825-14-044

**PROPOSED SITE PLAN**  
1/32"=1'-0"  
APN 825-14-044

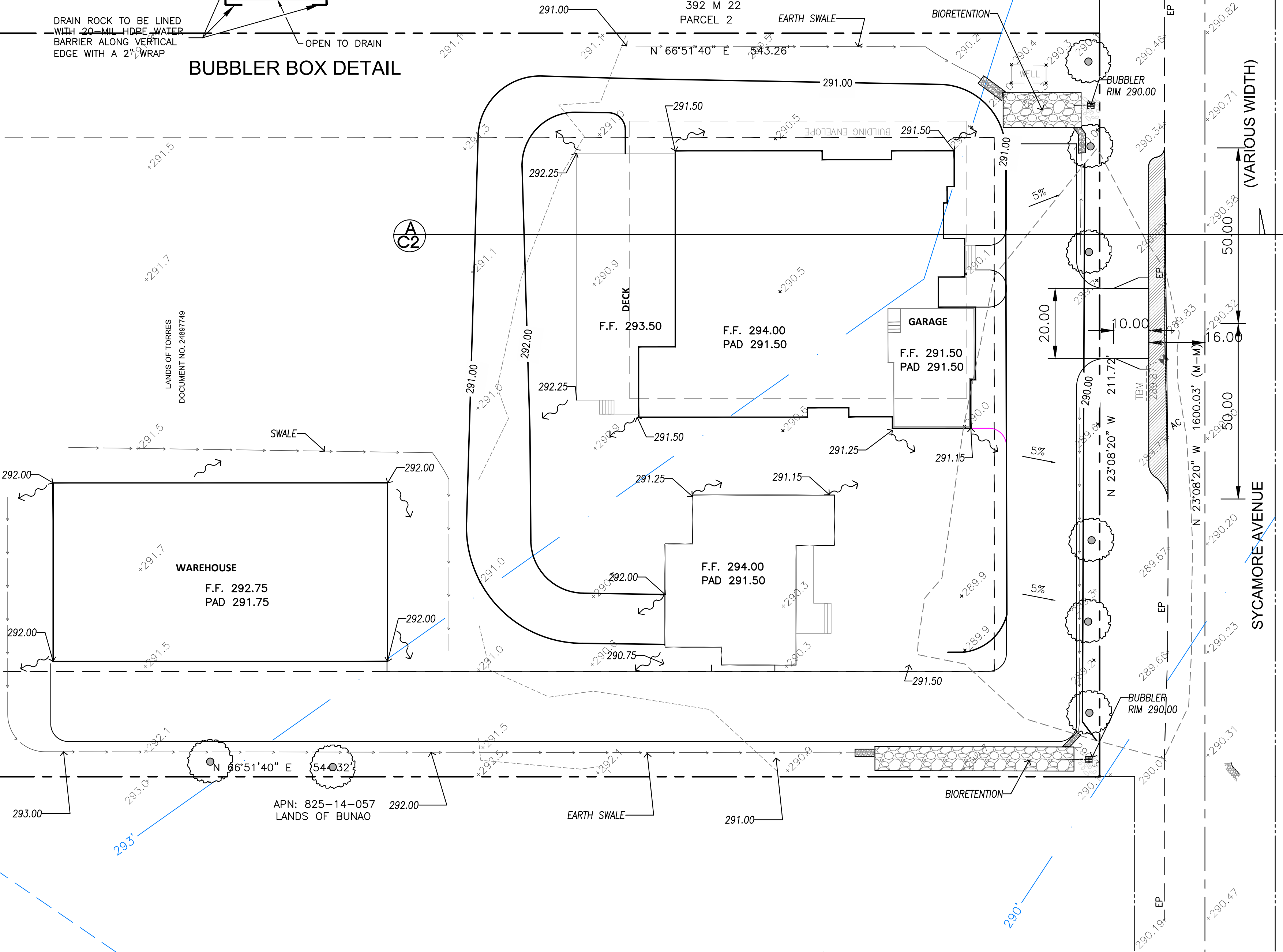


BIORETENTION BASIN W/O LINER

BUBBLER BOX DETAIL

EARTHEN SWALE

PROPOSED	EXISTING	PROPOSED	EXISTING



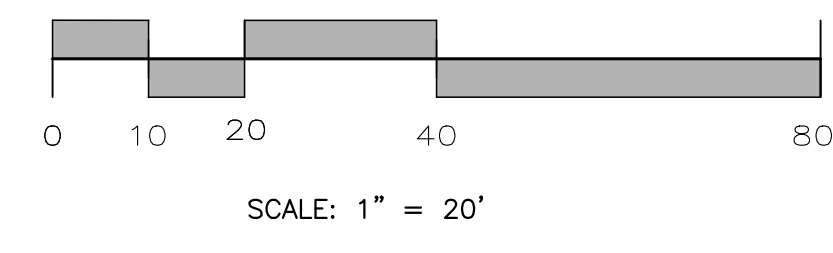
<b>BUILDING EARTH WORK</b>	
CUT:	20 CY
FILL:	510 CY
EXPORT:	0 CY
IMPORT:	490 CY

<b>DRIVEWAY EARTH WORK</b>	
CUT:	30 CY
FILL:	228 CY
EXPORT:	0 CY
IMPORT:	198 CY

<b>SITE EARTH WORK</b>	
CUT:	0 CY
FILL:	250 CY
EXPORT:	0 CY
IMPORT:	250 CY

NOTE: EARTHWORK QUANTITIES SHOWN ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INDEPENDENTLY ESTIMATE QUANTITIES FOR HIS/HER OWN USE.

- STORM UTILITY NOTES**
- ALL STORM PIPE LOCATED OUTSIDE OF VEHICULAR TRAVELED LANES SHALL BE PVC SDR 35 UNLESS OTHERWISE SPECIFIED ON PLANS
  - ALL STORM PIPE LOCATED IN VEHICULAR TRAVELED LANES SHALL BE PVC SD26 UNLESS OTHERWISE SPECIFIED ON PLANS
  - ALL PERFORATED PIPES SHALL BE PVC SDR 35 WITH 1/2" PERFORATIONS FACING DOWN.
  - ALL PVC CONNECTIONS TO CONCRETE STRUCTURES SHALL BE BY WATER STOP

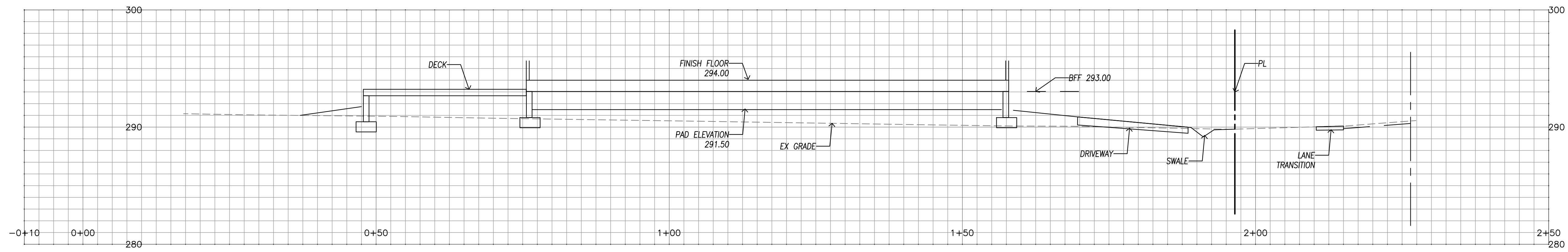


DATE:	10-22-2022	NO.	REVISION	DATE	DIRECTED BY:
SCALE:	AS NOTED	△			
DESIGNED BY:	MG	△			
DRAWN BY:	EH	△			
		△			

**GPM ENGINEERS**  
3340 WALNUT AVE., SUITE 292  
FREMONT, CA 94536  
TEL. (650) 331-7264 FAX (650) 472-9004  
MGENIDY@GPMENGINEERS.COM  
CIVIL • STRUCTURAL • PLANNING • DEVELOPMENT

PROJECT:  
**13685 Sycamore Ave., San Martin**

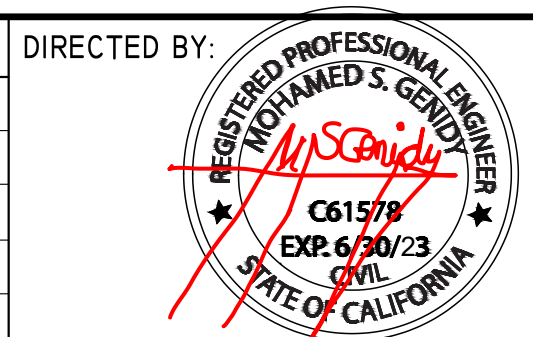
SHEET TITLE:  
**PRELIMINARY GRADING AND DRAINAGE PLAN**



**A** SITE SECTION

SCALE: H 1" = 10'-0"  
V 1" = 5'-0"

DATE:	10-22-2022	NO.	REVISION	DATE
SCALE:	AS NOTED	△		
DESIGNED BY:	MG	△		
DRAWN BY:	EH	△		
		△		
		△		

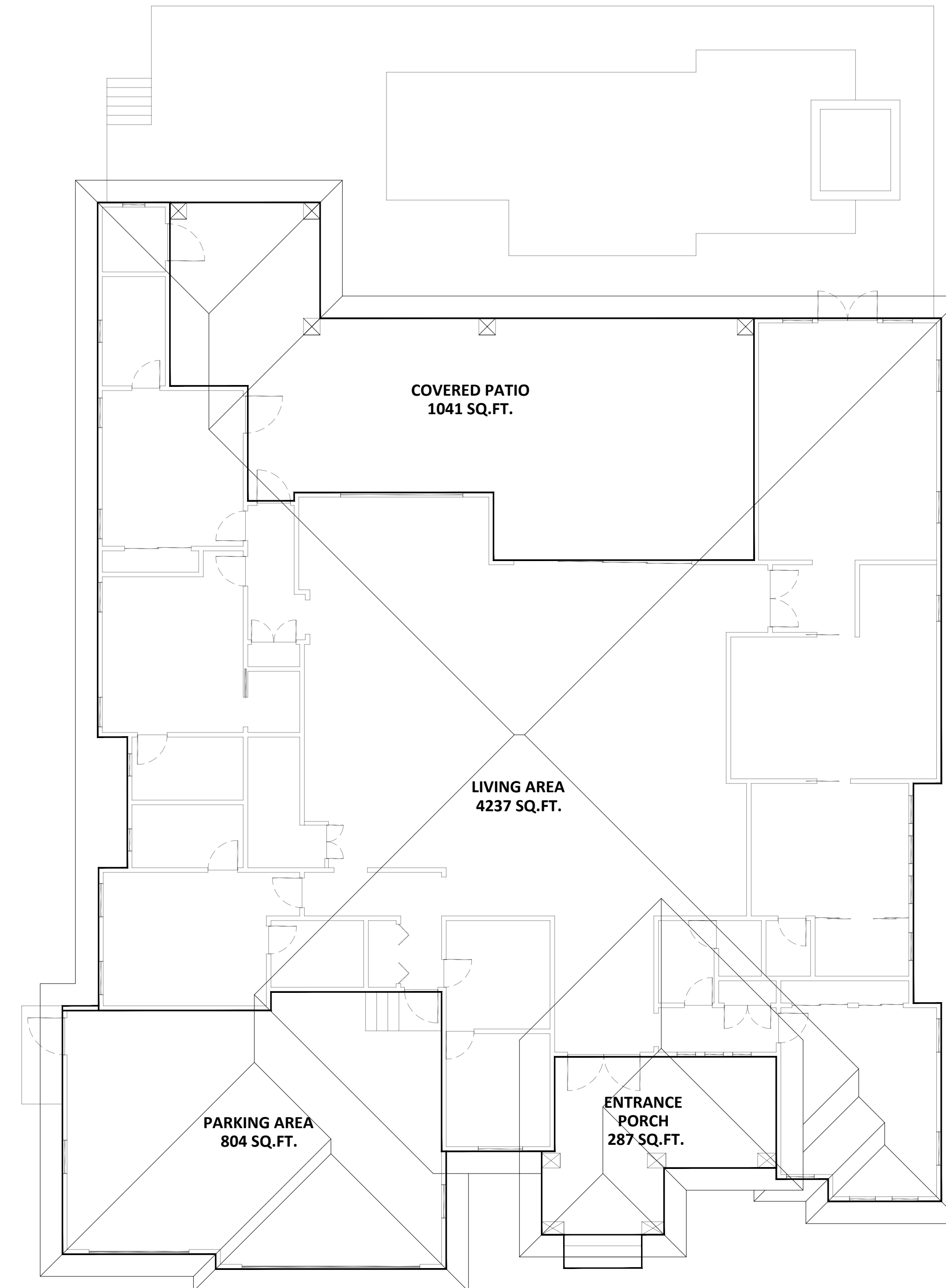


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CIVIL • STRUCTURAL • PLANNING • DEVELOPMENT

PROJECT:  
**13685 Sycamore Ave., San Martin**

SHEET TITLE:  
**SITE SECTIONS**

SHEET NUMBER  
**C2**  
OF 2



**PROPOSED ROOF PLAN AND AREAS**  
 1/8" = 1'-0"

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CHECKED: RS

SCALE:

DATE: 15-06-2022

**A0.3**



COUNTY OF SANTA CLARA

2019 CALGREEN RESIDENTIAL CHECKLIST (MANDATORY)

County Amendments to CALGreen are in Italics.

- Designer to cross out items that are not applicable to the project.
- Installer or designer shall verify all applicable requirements have been satisfied and sign and date each row. County Inspectors will verify completion signatures and supporting documentation DURING CONSTRUCTION.

Table with 6 columns: ITEM #, CALGreen CODE SECTION, REQUIREMENT, REFERENCE SHEET, Note or Detail No., Date, Installer or Designer Signature. Includes sections for Planning and Design, Energy Efficiency, Water Efficiency, and Conservation.

Table with 6 columns: ITEM #, CALGreen CODE SECTION, REQUIREMENT, REFERENCE SHEET, Note or Detail No., Date, Installer or Designer Signature. Includes sections for Material Conservation, Environmental Quality, and Resource Efficiency.

Table with 6 columns: ITEM #, CALGreen CODE SECTION, REQUIREMENT, REFERENCE SHEET, Note or Detail No., Date, Installer or Designer Signature. Includes sections for Environmental Quality and Installer and Special Inspector Qualifications.

TABLE 4.504.5 FORMALDEHYDE LIMITS' Maximum Formaldehyde Emissions in Parts per Million. Table with 2 columns: PRODUCT, CURRENT LIMIT.

1. Values in this table are derived from those specified by the California Air Resources Board... 2. Thin medium density fiberboard has a maximum thickness of 1/8 inch (3 mm).

TABLE 4.504.1 ADHESIVE VOC LIMITS' Less Water and Less Exempt Compounds in Grams per Liter

Table with 2 columns: ARCHITECTURAL APPLICATIONS, VOC LIMIT. Lists various adhesive types and their VOC limits.

TABLE 4.504.3 VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS' Less Water and Less Exempt Compounds

Table with 2 columns: COATING CATEGORY, VOC LIMIT. Lists various coating categories and their VOC limits.

1. If an adhesive is used to bond dissimilar substrates together, the adhesive with the highest VOC content shall be allowed. 2. For additional information regarding methods to measure the VOC content specified in this table, see South Coast Air Quality Management District Rule 1168.

TABLE 4.504.2 SEALANT VOC LIMIT Less Water and Less Exempt Compounds in Grams per Liter

Table with 2 columns: SEALANTS, VOC LIMIT. Lists various sealant types and their VOC limits.

1. Grams of VOC per liter of coating, including water and including 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...

Construction Waste Management (CWM) Plan

Fill out the form including diversion rate and facility names and addresses

Project Name: 13685 Sycamore Ave, San Martin, CA 95046. Legend: Hauling Company, Sorting Facility Name and Location, Disposal Service Company.

All Subcontractors shall comply with the project's Construction Waste Management Plan. All Subcontractor foremen shall sign the CWM Plan Acknowledgment Sheet.

Subcontractors who fail to comply with the Waste Management Plan will be subject to backcharges or withholding of payment, as deemed appropriate.

- 1. The project's overall rate of waste diversion will be %
2. This project shall generate the least amount of waste possible by planning and ordering carefully...
3. Spreadsheet 1, enclosed, identifies the waste materials that will be generated on this project...
4. Waste prevention and recycling activities will be discussed at the beginning of weekly subcontractor meetings...
5. Salvage: Excess materials that cannot be used in the project, nor returned to the vendor, will be offered to site workers...
6. drop boxes will be taken to... will provide a commingled drop box at the jobsite for most of the construction waste...
7. In the event that the waste diversion rate achievable via the strategy described in (6) above, is projected to be lower than what is required...
8. will track and calculate the quantity (in tons) of all waste leaving the project...
9. In the event that Subcontractors furnish their own debris boxes as part of their scope of work...
10. In the event that site use constraints (such as limited space) restrict the number of debris boxes that can be used...
11. Debris from jobsite office and meeting rooms will be collected by... will, at a minimum, recycle office paper, plastic, metal and cardboard.

Construction Waste Management (CWM) Worksheet

Project Name: 13685 Sycamore Ave, San Martin, CA 95046. Job Number: Project Manager: Waste Hauling Company: Construction Waste Management (CWM) Plan. Includes a table for Waste Material Type, Commingled and Sorted Off Site, Source Separated on Site, and Projected Diversion Rate.

Construction Waste Management (CWM) Acknowledgment

Note: This sample form may be used to assist in documenting compliance with the waste management plan.

Project Name: 13685 Sycamore Ave, San Martin, CA 95046. Job Number: Project Manager: Waste Hauling Company: CWM Plan Acknowledgment. Includes a table for Date, Subcontractor Company Name, Foreman Name, and Signature.

Project Information

SINGLE FAMILY RESIDENCE NO. 13685 STREET SYCAMORE AVE, CITY SAN MARTIN, CA ZIP CODE 95046

CALGreen One or Two Family Residential Project Mandatory Requirements County of Santa Clara



CG-1



**CALGREEN 2019 NOTES – MANDATORY REQUIREMENTS:**

**1.** PROJECTS WHICH DISTURB LESS THAN ONE ACRE OF SOIL AND ARE NOT PART OF A LARGER COMMON PLAN OF DEVELOPMENT WHICH IN TOTAL DISTURBS ONE ACRE OR MORE, SHALL MANAGE STORM WATER DRAINAGE DURING CONSTRUCTION. SEE CALGREEN 4.106.2 FOR FURTHER DETAILS.

**2.** CONSTRUCTION PLANS SHALL INDICATE HOW THE SITE GRADING OR DRAINAGE SYSTEM WILL MANAGE ALL SURFACE WATER FLOWS TO KEEP WATER FROM ENTERING BUILDINGS. SWALES, WATER COLLECTION AND DISPOSAL SYSTEMS, FRENCH DRAINS, WATER RETENTION GARDENS, AND OTHER MEASURES CAN BE USED. EXCEPTION: ADDITIONS AND ALTERATIONS NOT ALTERING THE DRAINAGE PATH.

**3.** NEW CONSTRUCTION SHALL COMPLY WITH CALGREEN SECTION 4.106.4.1 TO FACILITATE FUTURE INSTALLATION AND USE OF EV CHARGERS. ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE) SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE, ARTICLE 625.

**EXCEPTIONS:**

- A. WHERE COUNTY OF SANTA CLARA HAS DETERMINED EV CHARGING AND INFRASTRUCTURE ARE NOT FEASIBLE.
- B. ACCESSORY DWELLING UNITS (ADU) AND JUNIOR ACCESSORY DWELLING UNITS (JADU) WITHOUT ADDITIONAL PARKING FACILITIES.

**4.** FOR EACH DWELLING UNIT, INSTALL A LISTED RACEWAY TO ACCOMMODATE A DEDICATED 208/240-VOLT BRANCH CIRCUIT. THE RACEWAY SHALL NOT BE LESS THAN TRADE SIZE 1 (NOMINAL 1-INCH INSIDE DIAMETER). THE RACEWAY SHALL ORIGINATE AT THE MAIN SERVICE OR SUBPANEL AND SHALL TERMINATE INTO A LISTED CABINET, BOX OR OTHER ENCLOSURE IN CLOSE PROXIMITY TO THE PROPOSED LOCATION OF AN EV CHARGER. RACEWAYS ARE REQUIRED TO BE CONTINUOUS AT ENCLOSED, INACCESSIBLE OR CONCEALED AREAS AND SPACES. THE SERVICE PANEL AND/OR SUBPANEL SHALL PROVIDE CAPACITY TO INSTALL A 40-AMPERE MINIMUM DEDICATED BRANCH CIRCUIT AND SPACE(S) RESERVED TO PERMIT INSTALLATION OF A BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE. THE RACEWAY TERMINATION LOCATION SHALL BE PERMANENTLY AND VISIBLY MARKED AS "EV CAPABLE".

THE SERVICE PANEL OR SUB-PANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE OVER CURRENT PROTECTIVE DEVICE SPACE(S) RESERVED FOR FUTURE EV CHARGING AS "EV CAPABLE". THE RACEWAY TERMINATION LOCATION SHALL BE PERMANENTLY AND VISIBLY MARKED AS "EV CAPABLE".

**5.** ALL NONCOMPLIANT PLUMBING FIXTURES SHALL BE REPLACED WITH WATER-CONSERVING PLUMBING FIXTURES. PLUMBING FIXTURE REPLACEMENT IS REQUIRED PRIOR TO ISSUANCE OF A CERTIFICATE OF FINAL COMPLETION, CERTIFICATE OF OCCUPANCY, OR FINAL PERMIT APPROVAL BY BUILDING AND INSPECTION DIVISION. SEE CIVIL CODE SECTION 1101.1, ET SEQ., FOR THE DEFINITION OF A NONCOMPLIANT PLUMBING FIXTURE, TYPES OF RESIDENTIAL BUILDINGS AFFECTED AND OTHER IMPORTANT ENACTMENT DATES.

- A. THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK-TYPE TOILETS.
- B. SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 80 PSI. SHOWERHEADS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR SHOWERHEADS.
- C. WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL SHOWER-HEADS AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 80 PSI, OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME. A HAND-HELD SHOWER SHALL BE CONSIDERED A SHOWERHEAD.
- D. THE MAXIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT EXCEED 1.2 GALLONS PER MINUTE AT 60 PSI. THE MINIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT BE LESS THAN 0.8 GALLONS PER MINUTE AT 20 PSI.
- E. THE MAXIMUM FLOW RATE OF KITCHEN FAUCETS SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI.

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

**7.** RESIDENTIAL DEVELOPMENTS SHALL COMPLY WITH A LOCAL WATER EFFICIENT LANDSCAPE ORDINANCE OR THE CURRENT CALIFORNIA DEPARTMENT OF WATER RESOURCES' MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWEL0), WHICHEVER IS MORE STRINGENT.

**8.** NEWLY CONSTRUCTED RESIDENTIAL DEVELOPMENTS, WHERE DISINFECTED TERTIARY RECYCLED WATER IS AVAILABLE FROM A MUNICIPAL SOURCE TO A CONSTRUCTION SITE, MAY BE REQUIRED TO HAVE RECYCLED WATER SUPPLY SYSTEMS INSTALLED, ALLOWING THE USE OF RECYCLED WATER FOR RESIDENTIAL LANDSCAPE IRRIGATION SYSTEMS. SEE CHAPTER 15 OF THE CALIFORNIA PLUMBING CODE.

**9.** ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENINGS IN SOLE/BOTTOM PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY OR A SIMILAR METHOD ACCEPTABLE TO THE COUNTY OF SANTA CLARA.

**10.** RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 65 PERCENT OF THE NONHAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDANCE WITH CALGREEN SECTION 4.408.2 OR 4.408.3.

A. A CONSTRUCTION WASTE MANAGEMENT PLAN IS PROVIDED. THE CONSTRUCTION WASTE MANAGEMENT PLAN SHALL BE UPDATED AS NECESSARY AND SHALL BE AVAILABLE DURING CONSTRUCTION FOR EXAMINATION BY THE COUNTY OF SANTA CLARA.

- 1. IDENTIFY THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL BY RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE.
- 2. SPECIFY IF CONSTRUCTION AND DEMOLITION WASTE MATERIALS WILL BE SORTED ON-SITE (SOURCE-SEPARATED) OR BULK MIXED (SINGLE STREAM).
- 3. IDENTIFY DIVERSION FACILITIES WHERE THE CONSTRUCTION AND DEMOLITION WASTE MATERIAL WILL BE TAKEN.
- 4. IDENTIFY CONSTRUCTION METHODS EMPLOYED TO REDUCE THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE GENERATED.
- 5. Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

B. A WASTE MANAGEMENT COMPANY CAN BE UTILIZED IF APPROVED BY THE COUNTY OF SANTA CLARA. SEE CALGREEN 4.408.3 FOR FURTHER .DETAILS

**11.** DOCUMENTATION SHALL BE PROVIDED TO THE COUNTY OF SANTA CLARA WHICH DEMONSTRATES COMPLIANCE WITH NOTE 10.

**12.** AT THE TIME OF FINAL INSPECTION, A MANUAL, COMPACT DISC, WEB-BASED REFERENCE OR OTHER MEDIA ACCEPTABLE TO THE COUNTY OF SANTA CLARA INCLUDES ALL OF THE REQUIRED INFORMATION, SHALL BE PLACED IN THE BUILDING. SEE CALGREEN 4.410.1 FOR DETAILS OF REQUIRED INFORMATION.

**13.** 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 SANTA CLARA COUNTY ORDINANCES AND BAY AREA AIR QUALITY MANAGEMENT DISTRICT REGULATION 6, RULE 3.

**14.** 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 COUNTY OF SANTA CLARA TO REDUCE THE AMOUNT OF WATER, DUST AND DEBRIS, WHICH MAY ENTER THE SYSTEM.

**15.** ADHESIVES, SEALANTS AND CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS OF CALGREEN TABLES 4.504.1 OR 4.504.2 AS REPRODUCED ON SHEET CG-1. SUCH PRODUCTS ALSO SHALL COMPLY WITH THE RULE 1168 PROHIBITION ON THE USE OF CERTAIN TOXIC COMPOUNDS (CHLOROFORM, ETHYLENE DICHLORIDE, METHYLENE CHLORIDE, PERCHLOROETHYLENE AND TRICHLOROETHYLENE), EXCEPT FOR AEROSOL PRODUCTS, AS SPECIFIED BELOW.

AEROSOL ADHESIVES, AND SMALLER UNIT SIZES OF ADHESIVES, AND SEALANT OR CAULKING COMPOUNDS (IN UNITS OF PRODUCT, LESS PACKAGING, WHICH DO NOT WEIGH MORE THAN 1 POUND AND DO NOT CONSIST OF MORE THAN 16 FLUID OUNCES) SHALL COMPLY WITH STATEWIDE VOC STANDARDS AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS, OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94507.

**16.** ARCHITECTURAL PAINTS AND COATINGS SHALL COMPLY WITH VOC LIMITS AS SHOWN IN TABLE 4.504.3 SHEET CG-1. 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 NON-FLAT-HIGH GLOSS VOC LIMIT IN TABLE 4.504.3, SHEET CG-1 SHALL APPLY.

**17.** AEROSOL PAINTS AND COATINGS SHALL MEET THE PRODUCT-WEIGHTED MIR LIMITS FOR ROC IN SECTION 94522(A)(2) AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS AND OZONE DEPLETING SUBSTANCES, IN SECTIONS 94522(E)(1) AND (F)(1) OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94520; AND IN AREAS UNDER THE JURISDICTION OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT ADDITIONALLY COMPLY WITH THE PERCENT VOC BY WEIGHT OF PRODUCT LIMITS OF REGULATION 8, RULE 49.

**18.** VERIFICATION OF COMPLIANCE WITH NOTES 15, 16, AND 17 SHALL BE PROVIDED AT THE REQUEST OF THE COUNTY OF SANTA CLARA.

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

- A. CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM.
- B. CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350.)
- C. NSF/ANSI 140 AT THE GOLD LEVEL.
- D. SCIENTIFIC CERTIFICATIONS SYSTEMS INDOOR ADVANTAGE GOLD.

ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CARPET AND RUG INSTITUTE'S GREEN LABEL PROGRAM. ALL CARPET ADHESIVE SHALL MEET THE REQUIREMENTS OF TABLE 4.504.1, SHEET CG-1.

**20.** WHERE RESILIENT FLOORING IS INSTALLED, AT LEAST 80 PERCENT OF FLOOR AREA RECEIVING RESILIENT FLOORING SHALL COMPLY WITH ONE OR MORE OF THE FOLLOWING:

A. PRODUCTS COMPLIANT WITH THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350), CERTIFIED AS A CHPS LOW-EMITTING MATERIAL IN THE COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CHPS) HIGH PERFORMANCE PRODUCTS DATABASE.

B. PRODUCTS CERTIFIED UNDER UL GREENGUARD GOLD (FORMERLY THE GREENGUARD CHILDREN & SCHOOLS PROGRAM).

C. CERTIFICATION UNDER THE RESILIENT FLOOR COVERING INSTITUTE (RFCI) FLOORSCORE PROGRAM.

D. MEET THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350).

**21.** HARDWOOD PLYWOOD, PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET THE REQUIREMENTS FOR FORMALDEHYDE AS SPECIFIED IN TABLE 4.504.5 SHEET CG-1.

**22.** VERIFICATION OF COMPLIANCE WITH NOTE 21 SHALL BE PROVIDED AT THE REQUEST OF THE COUNTY OF SANTA CLARA.

**23.** CONCRETE SLAB FOUNDATIONS REQUIRED TO HAVE A VAPOR RETARDER BY CBC, CHAPTER 19 OR CONCRETE SLAB-ON-GROUND FLOORS REQUIRED TO HAVE A VAPOR RETARDER BY CRC CHAPTER 5, SHALL COMPLY WITH FOLLOWING REQUIREMENT:

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

- A. A 4-INCH-THICK BASE OF 1/2 INCH OR LARGER CLEAN AGGREGATE SHALL BE PROVIDED WITH A VAPOR RETARDER IN DIRECT CONTACT WITH CONCRETE AND A CONCRETE MIX DESIGN, WHICH WILL ADDRESS BLEEDING, SHRINKAGE, AND CURLING, SHALL BE USED.
- B. A SLAB DESIGN SPECIFIED BY THE LICENSED DESIGN PROFESSIONAL.

**24.** BUILDING MATERIALS WITH VISIBLE SIGNS OF WATER DAMAGE SHALL NOT BE INSTALLED. WALL AND FLOOR FRAMING SHALL NOT BE ENCLOSED WHEN THE FRAMING MEMBERS EXCEED 19 PERCENT MOISTURE CONTENT. INSULATION PRODUCTS WHICH ARE VISIBLY WET OR HAVE A HIGH MOISTURE CONTENT SHALL BE REPLACED OR ALLOWED TO DRY PRIOR TO ENCLOSURE IN WALL OR FLOOR CAVITIES. WET-APPLIED INSULATION PRODUCTS SHALL FOLLOW THE MANUFACTURERS' DRYING RECOMMENDATIONS PRIOR TO ENCLOSURE.

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

- A. FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING.
- B. UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY A HUMIDITY CONTROL.
  - 1. HUMIDITY CONTROLS SHALL BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF ≤ 50 PERCENT TO A MAXIMUM OF 80 PERCENT. A HUMIDITY CONTROL MAY UTILIZE MANUAL OR AUTOMATIC MEANS OF ADJUSTMENT.
  - 2. A HUMIDITY CONTROL MAY BE A SEPARATE COMPONENT TO THE EXHAUST FAN AND IS NOT REQUIRED TO BE INTEGRAL.

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

- A. THE HEAT LOSS AND HEAT GAIN IS ESTABLISHED ACCORDING TO ANSI/ACCA 2 MANUAL J—2016 (RESIDENTIAL LOAD CALCULATION), ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
- B. DUCT SYSTEMS ARE SIZED ACCORDING TO ANSI/ACCA 1 MANUAL D—2016 (RESIDENTIAL DUCT SYSTEMS), ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
- C. SELECT HEATING AND COOLING EQUIPMENT ACCORDING TO ANSI/ACCA 3 MANUAL S—2014 (RESIDENTIAL EQUIPMENT SELECTION) OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.

**27.** HVAC SYSTEM INSTALLERS SHALL BE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS INCLUDING DUCTS AND EQUIPMENT BY A NATIONALLY OR REGIONALLY RECOGNIZED TRAINING OR CERTIFICATION PROGRAM. UNCERTIFIED PERSONS MAY PERFORM HVAC INSTALLATIONS WHEN UNDER THE DIRECT SUPERVISION AND RESPONSIBILITY OF A PERSON TRAINED AND CERTIFIED TO INSTALL HVAC SYSTEMS OR CONTRACTOR LICENSED TO INSTALL HVAC SYSTEMS.

**28.** IF REQUIRED BY THE COUNTY OF SANTA CLARA, THE OWNER OR THE RESPONSIBLE ENTITY ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTION OR OTHER DUTIES NECESSARY TO SUBSTANTIATE COMPLIANCE WITH THIS CODE. SPECIAL INSPECTORS SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE COUNTY OF SANTA CLARA FOR THE PARTICULAR TYPE OF INSPECTION OR TASK TO BE PERFORMED. SPECIAL INSPECTORS SHALL BE INDEPENDENT ENTITIES WITH NO FINANCIAL INTEREST IN THE MATERIALS OR THE PROJECT THEY ARE INSPECTING FOR COMPLIANCE WITH THIS CODE.

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

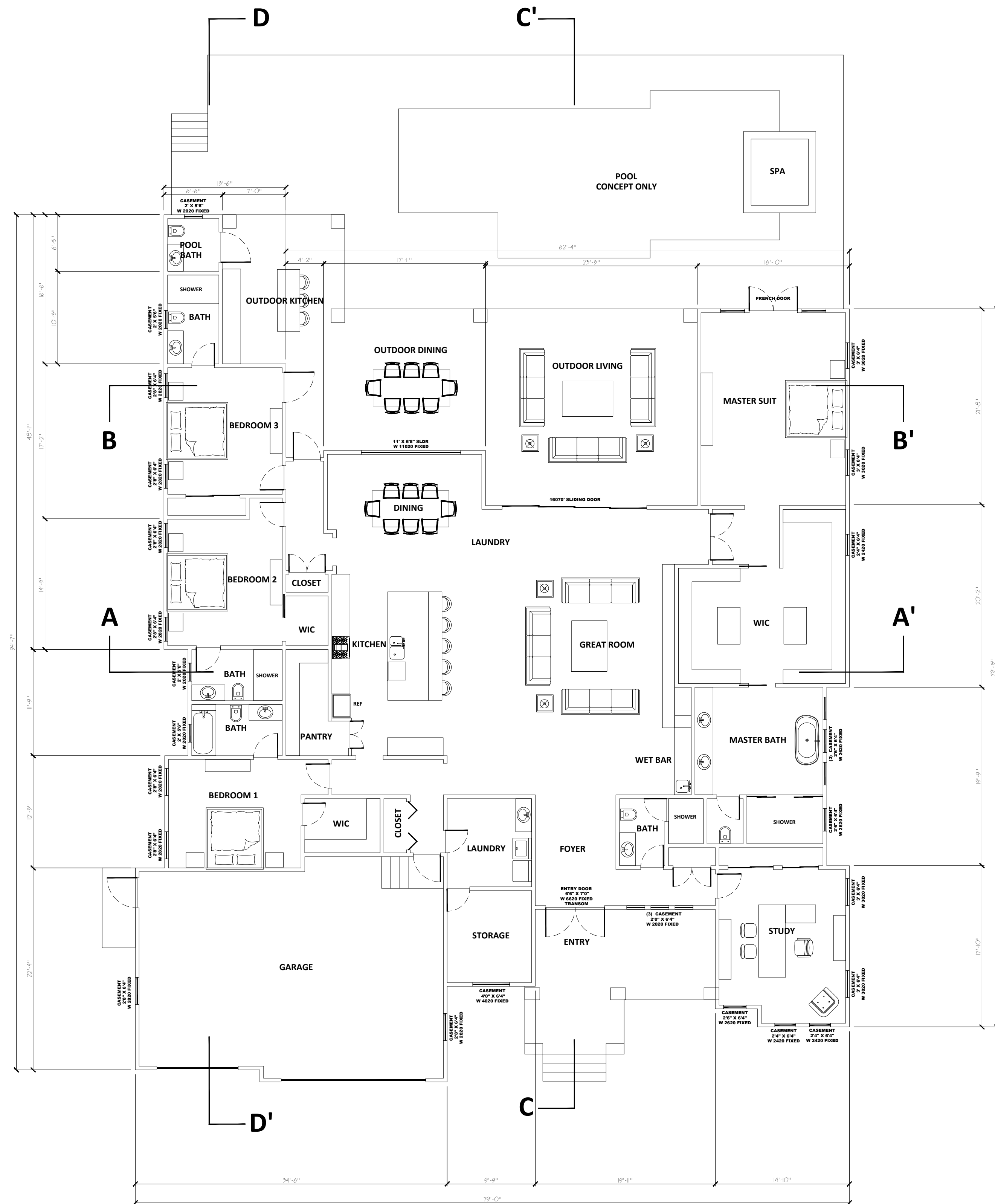
**Project Information**

SINGLE FAMILY RESIDENCE  
NO. 13685  
STREET SYCAMORE AVE,  
CITY SAN MARTIN, CA  
ZIP CODE 95046

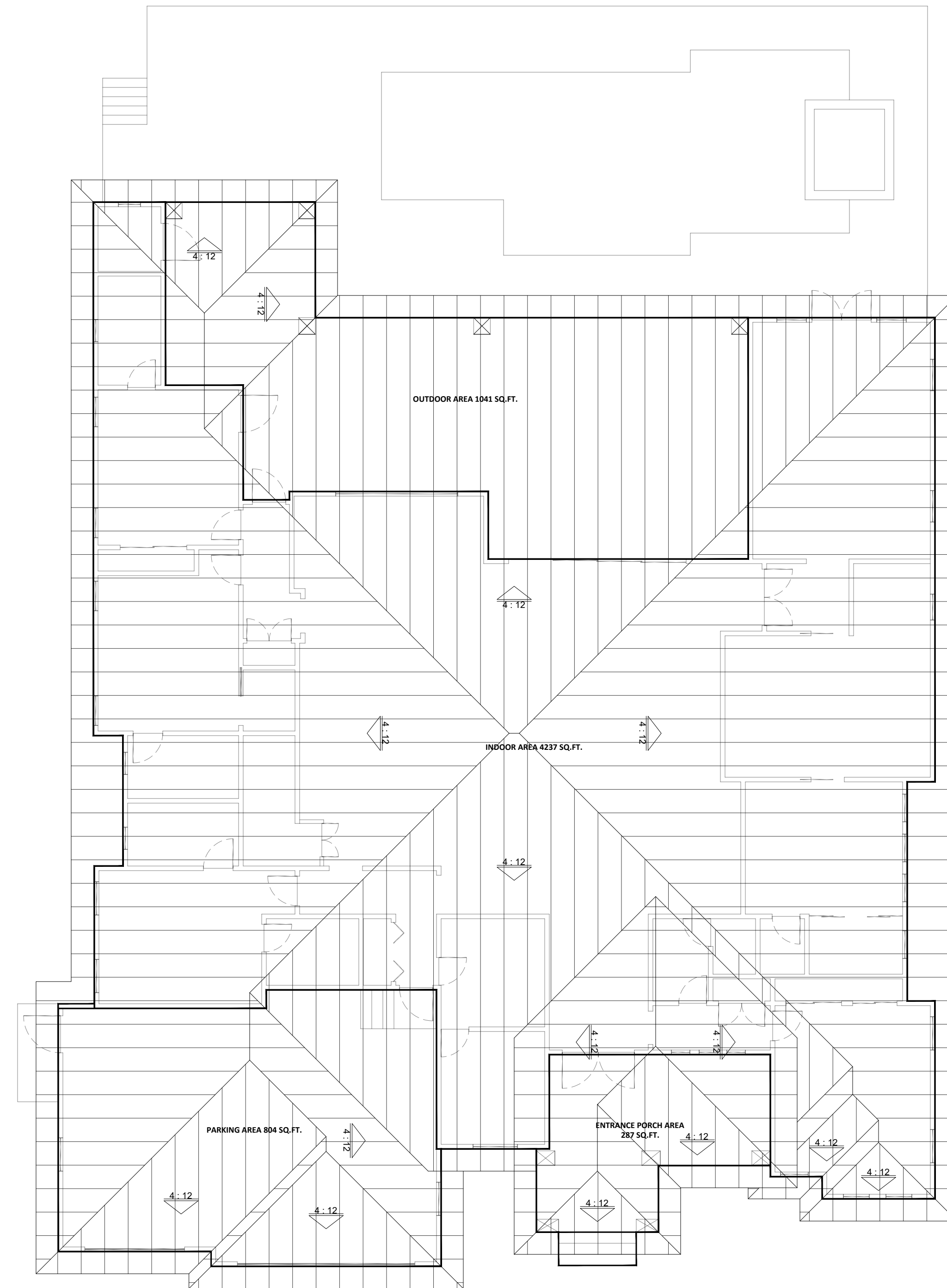
**CALGreen One or Two Family Residential Project Mandatory Requirements  
County of Santa Clara**



**CG-2**



**PROPOSED FLOOR PLAN**  
1/8" = 1'-0"



**PROPOSED ROOF PLAN**  
1/8" = 1'-0"

ISSUED / REVISED

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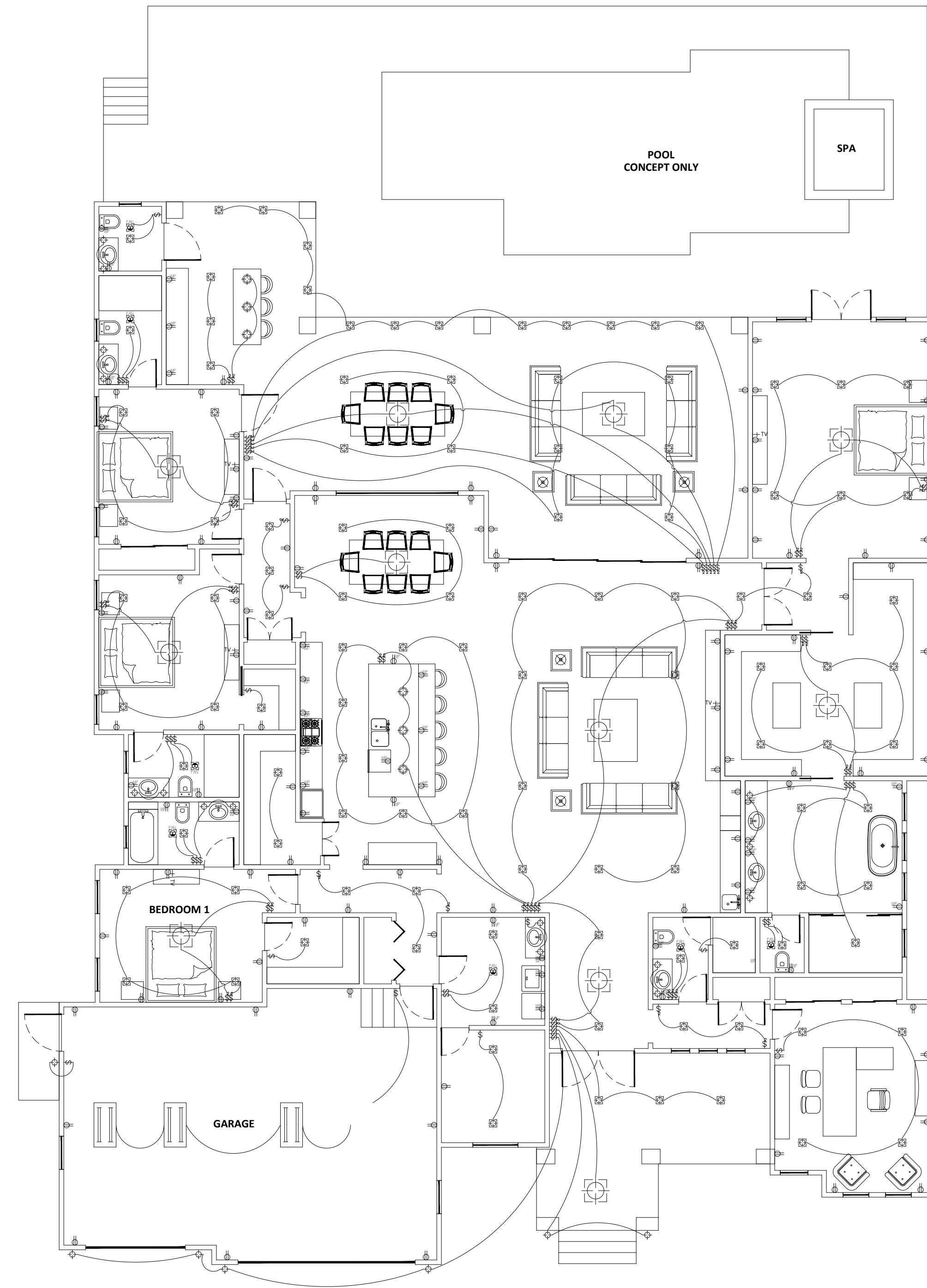
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ZIPCODE 95046

**SHAH DESIGNS**

DRAWN: AJ  
CHECKED: RS  
SCALE:  
DATE: 15-06-2022

**A1**



**PROPOSED ELECTRICAL PLAN**  
1/8" = 1'-0"

**NOTE:**

- TEMPER RESISTANT RECEPTACLES ARE REQUIRED AT ALL NEW CIRCUITS PER CEC 406.12.
- PROVIDE TEMPER RESISTANT OUTLETS IN EVERY KITCHEN, FAMILY ROOM, DINING ROOM, LIVING ROOM, PARLOR, LIBRARY, DEN, SUNROOM, BEDROOM, RECREATION ROOM, BATHROOM, GARAGE, BASEMENT, LAUNDRY AND OUTDOOR AREA. (CEC 406.11, 210.52)
- SMOKE & CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM THE BUILDING WIRING, BE EQUIPPED WITH BATTERY BACK-UP AND BE INTER CONNECTED IN SUCH MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS.
- SMOKE ALARMS INSTALLED WITHIN 20FT OF A KITCHEN, BATHROOM OR ROOM CONTAINING A FIREPLACE OR WOOD BURNING STOVE SHALL BE OF THE PHOTOELECTRIC TYPE.

**NOTE:**

- THE EXHAUST FANS SHOULD BE 50 CUBIC FEET PER MINUTE FOR INTERMITTENT VENTILATION OR 20 CUBIC FEET PER MINUTE FOR CONTINUOUS VENTILATION. EXHAUST AIR FROM THE SPACE SHALL BE EXHAUSTED DIRECTLY TO THE OUTDOORS.

**THE REQUIRED FLOW RATES ARE DEFINED IN EQUATION 4.1A:**

$$QFAN = 0.01(A_{FLOOR}) + 7.5(NBR + 1)$$

$$QFAN = 0.01(2111) + 7.5(4 + 1)$$

$$= 21.1 + 7.5(5)$$

$$= 21.1 + 37.5$$

**QFAN = 58.6 CFM**

**WHERE:**

- QFAN = MINIMUM FAN AIRFLOW RATING, CFM
- A<sub>FLOOR</sub> = CONDITIONED FLOOR AREA, SQUARE FEET
- NBR = NUMBER OF BEDROOMS

**ELECTRICAL LEGEND**

- \$ SWITCH
- \$ DIM DIMMER SWITCH
- \$ 3,4 3 AND 4 WAY SWITCH
- \$ AUCO MANUAL ON OCCUPANT SENSOR SWITCH
- ⊕ DUPLEX RECEPTICAL OUTLET W/ ARC FAULT INTERRUPTER
- ⊕ FOUR PLEX RECEPTICAL OUTLET W/ ARC FAULT INTERRUPTER
- ⊕ 220 OUTLET
- ⊕ WP WATERPROOF DUPLEX RECEPTICAL OUTLET W/ARC FAULT INTERRUPTER
- ⊕ GFI GROUND FAULT INTERRUPTER RECEPTICAL OUTLET
- ⊕ SURFACE MOUNTED LIGHT FIXTURE
- ⊕ PENDANT LIGHT
- ⊕ PS MP MOTION SENSOR WITH INTEGRATED PHOTO CELL
- ⊕ RECESSED LIGHT FIXTURE
- ⊕ JUNCTION BOX
- ⊕ EXHAUST FAN SWITCHED OR CONTINUOUS
- ⊕ FL EXHAUST FAN/FLOURESCENT LIGHT
- ⊕ NEW SMOKE DETECTOR INTERCONNECTED 110V W/ 10 YR. BATTERY LIFE BACK-UP
- ⊕ SD CO NEW CARBON MONOXIDE DETECTOR INTERCONNECTED 110V W/ 10 YR. BATTERY LIFE BACK-UP
- ⊕ WALL REGISTER
- ⊕ WALL SCONCE
- ⊕ FLUORESCENT LIGHT

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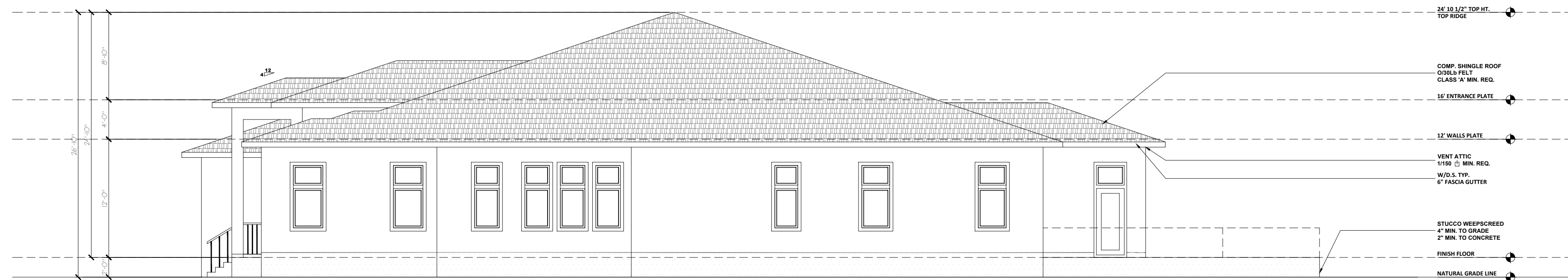
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CHECKED: RS  
SCALE:  
DATE: 15-06-2022

**A2**



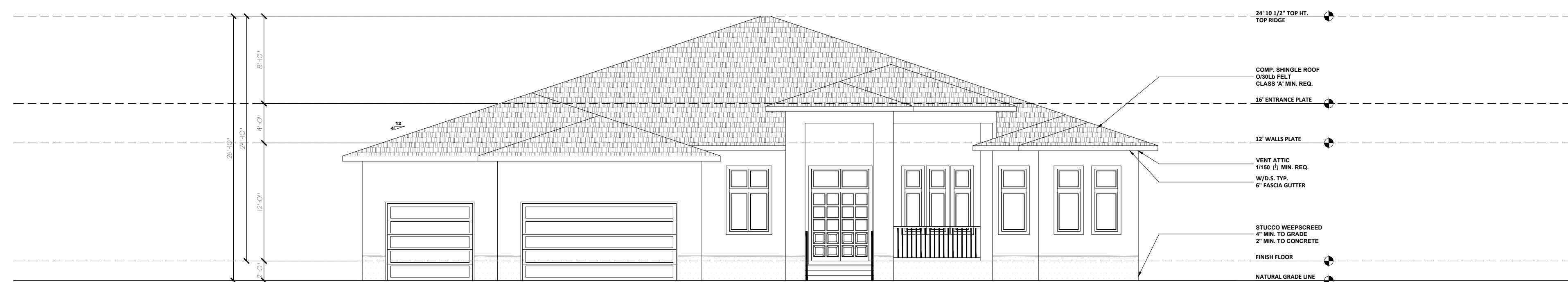
**PROPOSED REAR ELEVATION**

1/8" = 1'-0"



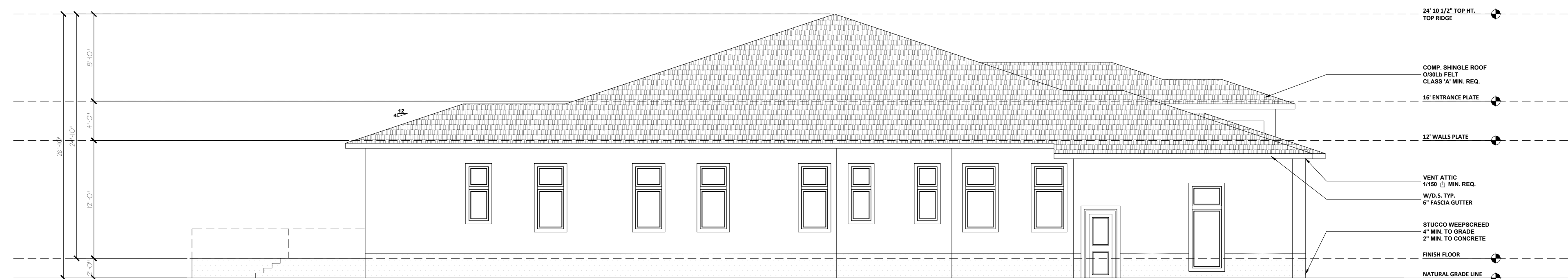
**PROPOSED RIGHT ELEVATION**

1/8" = 1'-0"



**PROPOSED FRONT ELEVATION**

1/8" = 1'-0"



**PROPOSED LEFT ELEVATION**

1/8" = 1'-0"

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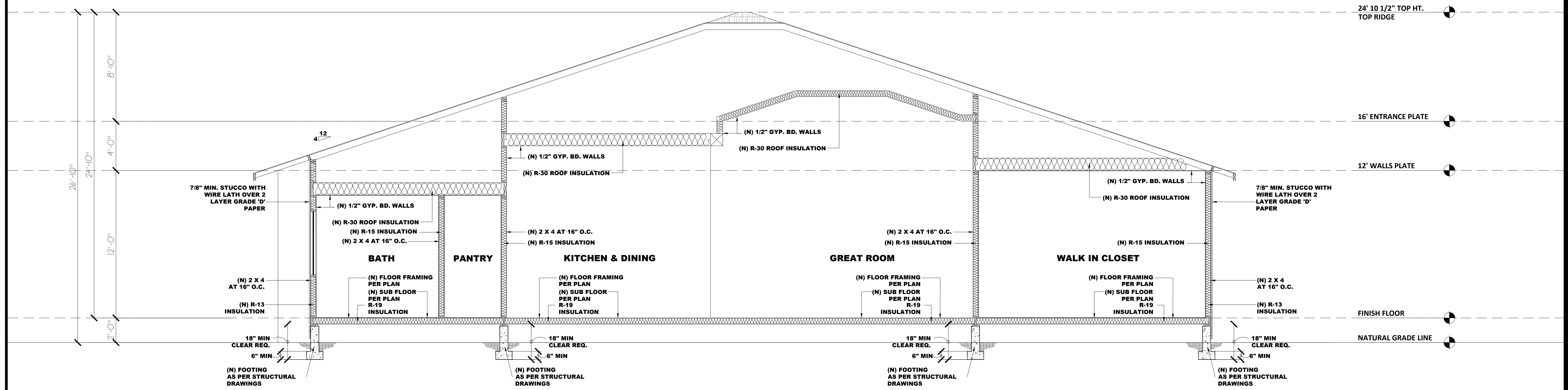
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CHECKED: RS

SCALE:

DATE: 15-06-2022

**A3**



**PROPOSED SECTION : A-A'**  
 1/4" = 1'-0"



**PROPOSED SECTION : B-B'**  
 1/4" = 1'-0"

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 SAN JOSE, CA 95127  
 PHONE 408-898-7464  
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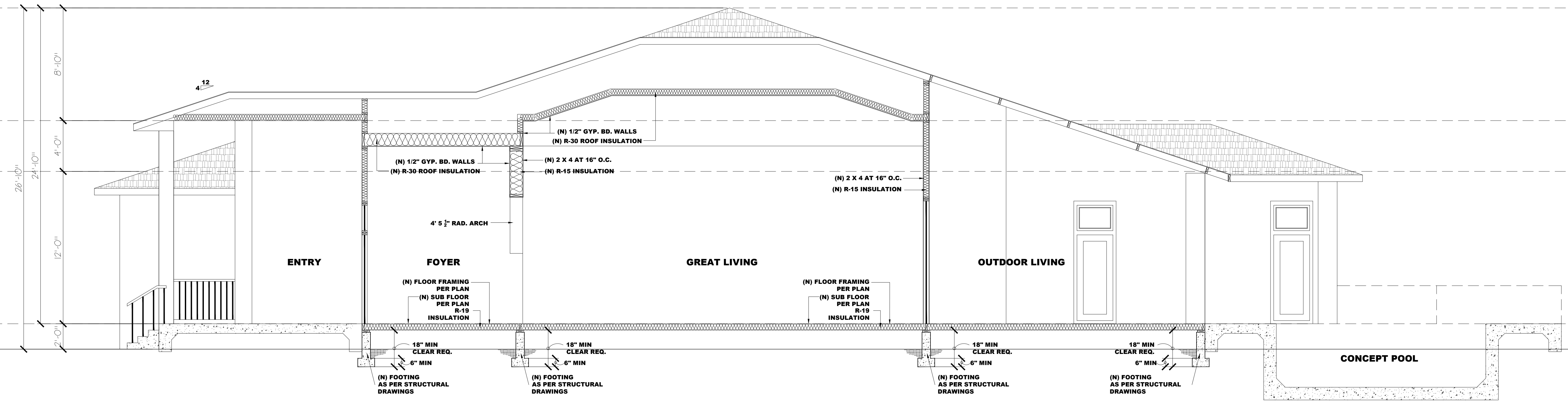
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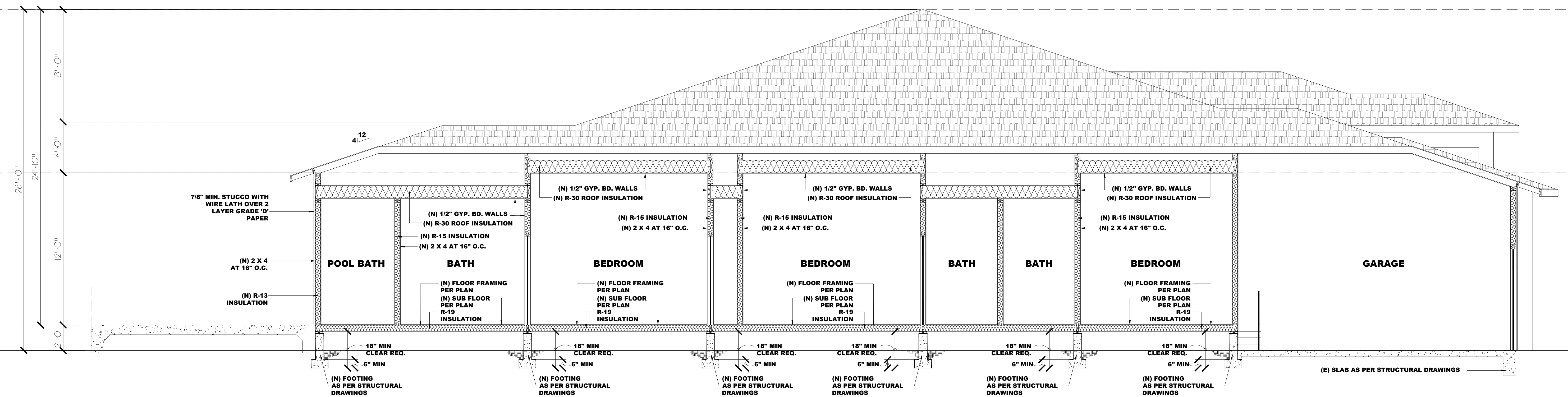
**SHAH DESIGNS**

DRAWN: AJ  
 CHECKED: RS  
 SCALE:  
 DATE: 15-06-2022

**A4**



**PROPOSED SECTION : C-C'**  
 1/4" = 1'-0"



**PROPOSED SECTION : D-D'**  
 1/4" = 1'-0"

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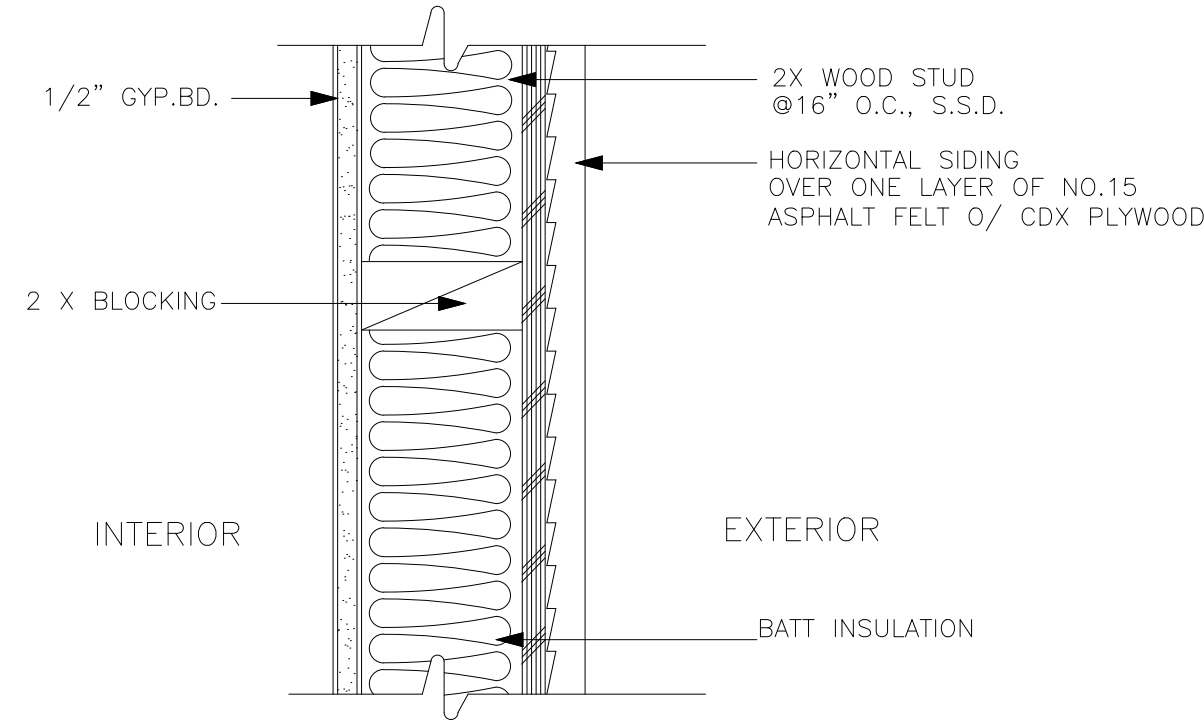
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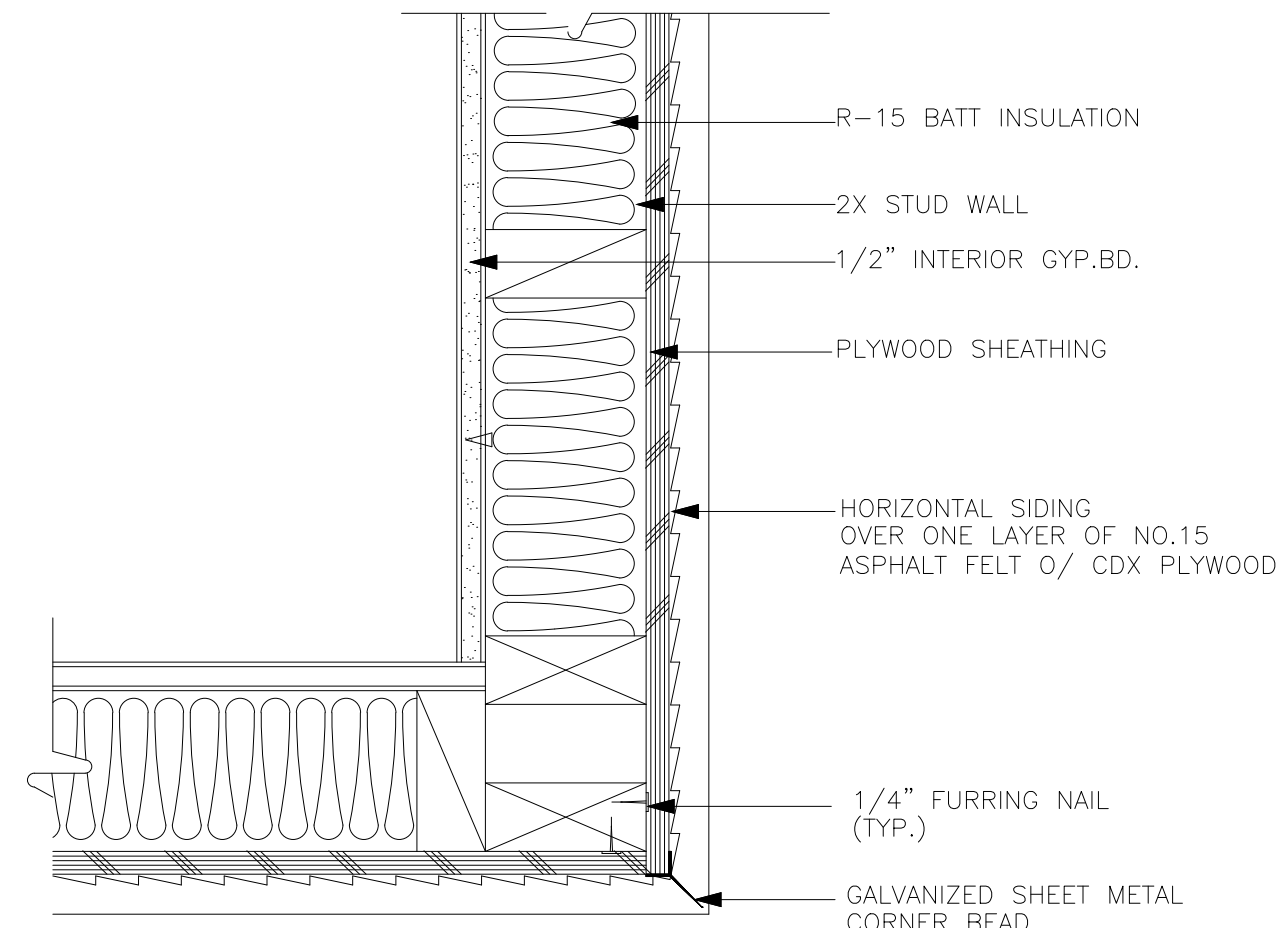
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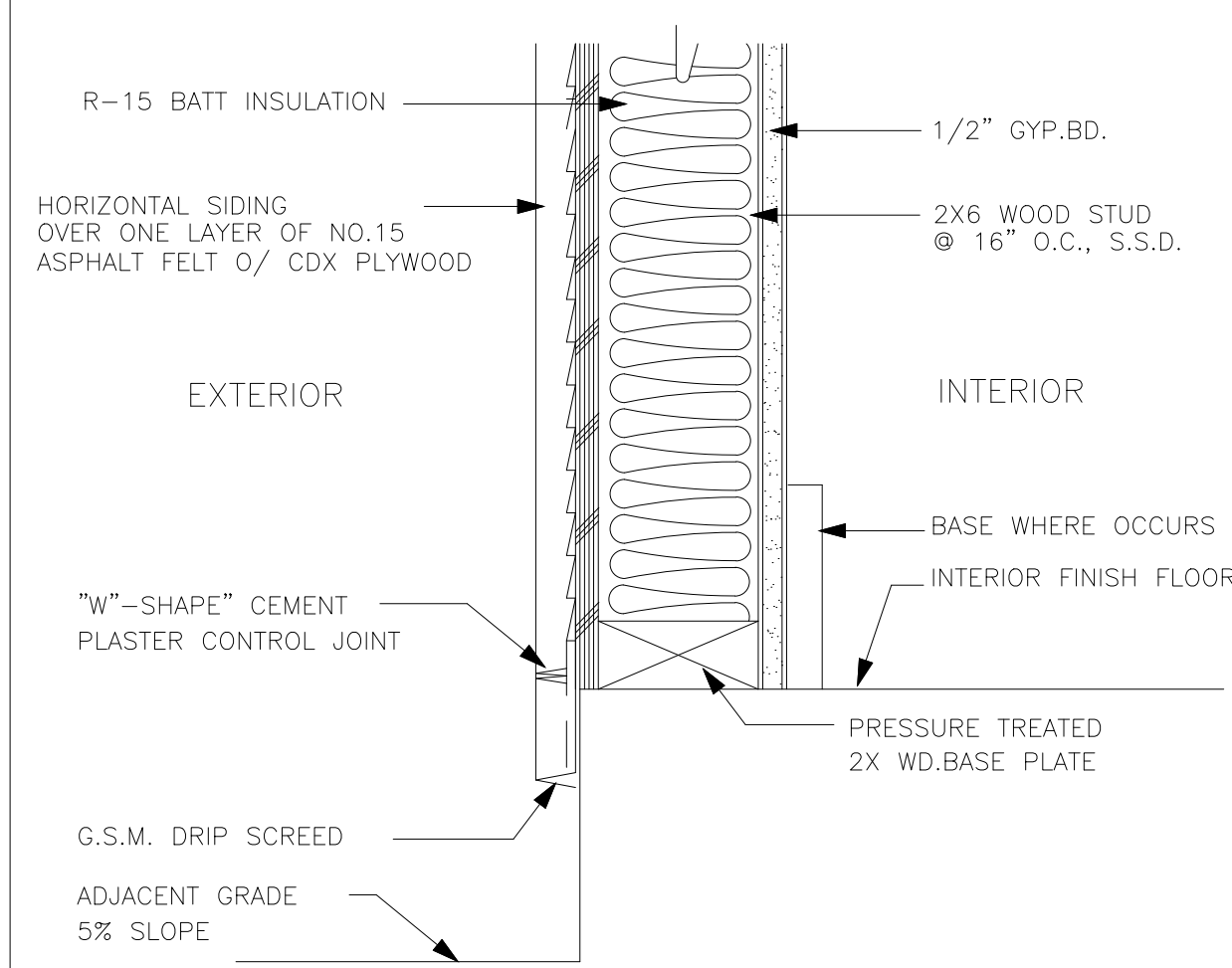
**A5**



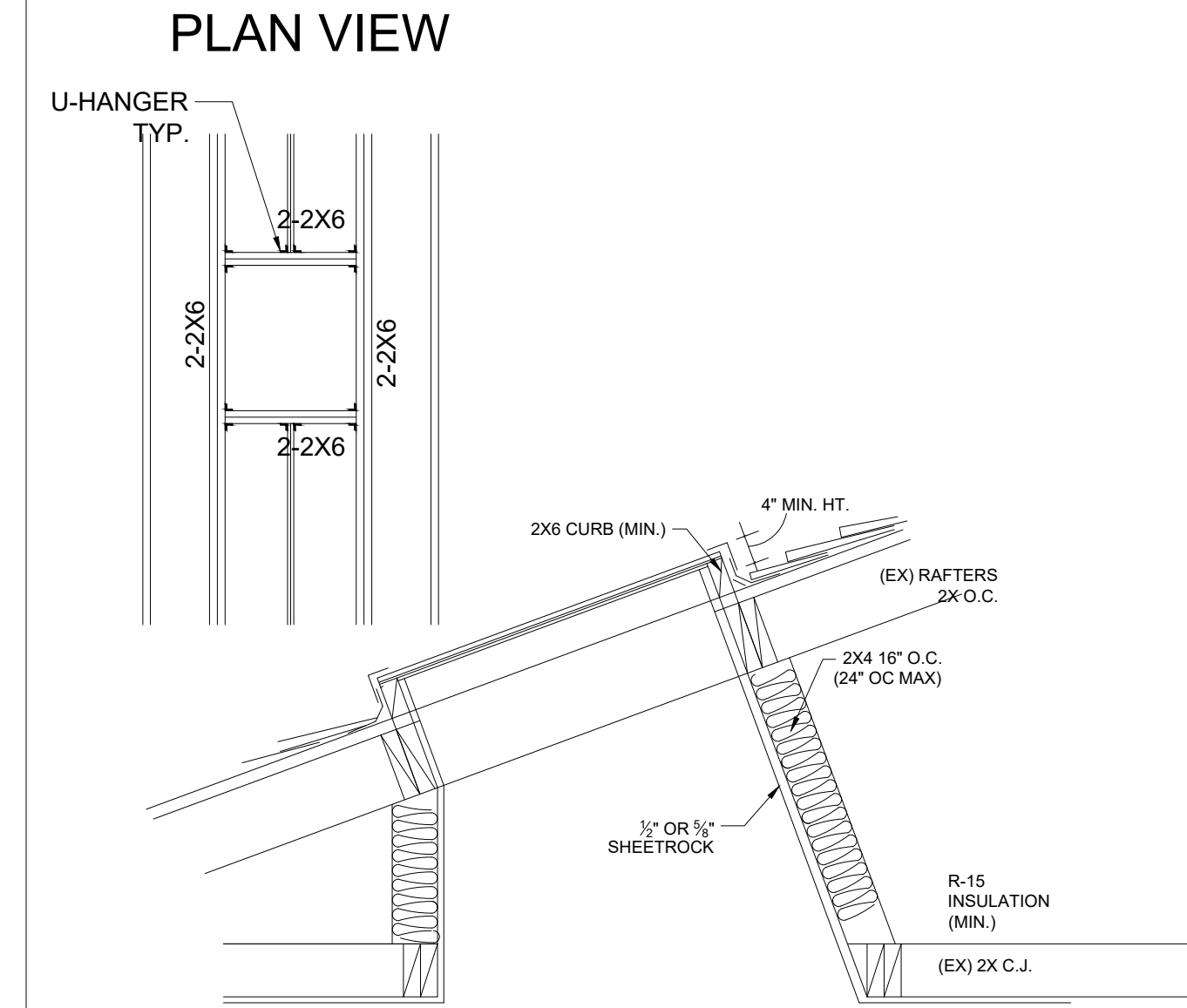
1 TYP. EXTERIOR WALL DETAIL  
N.T.S.



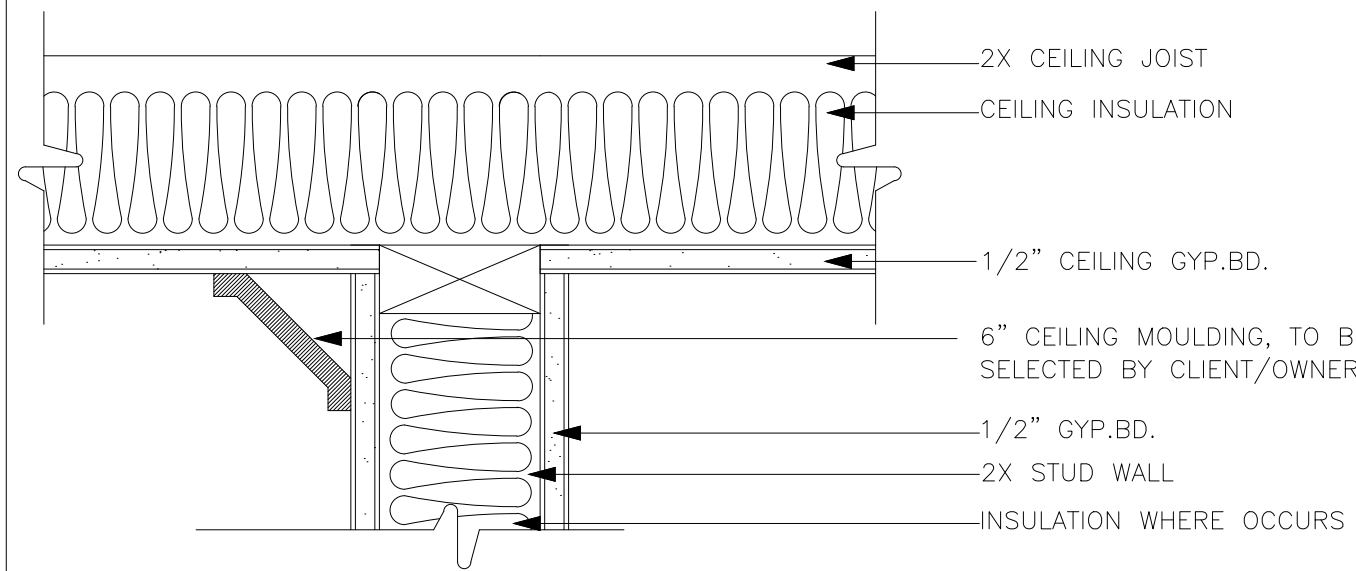
2 TYP. EXTERIOR WALL DETAIL  
N.T.S.



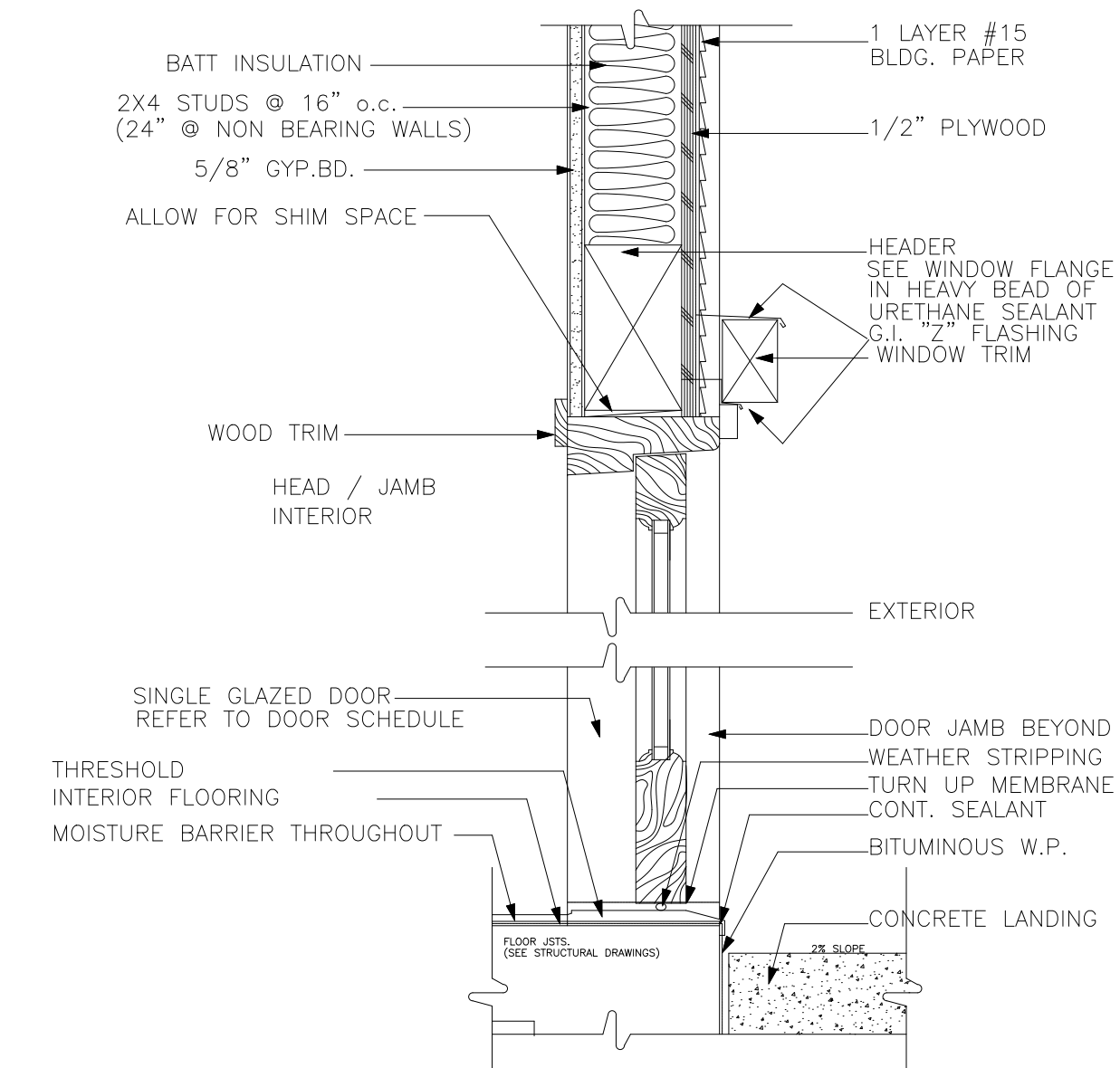
3 TYP. EXTERIOR WALL DETAIL  
N.T.S.



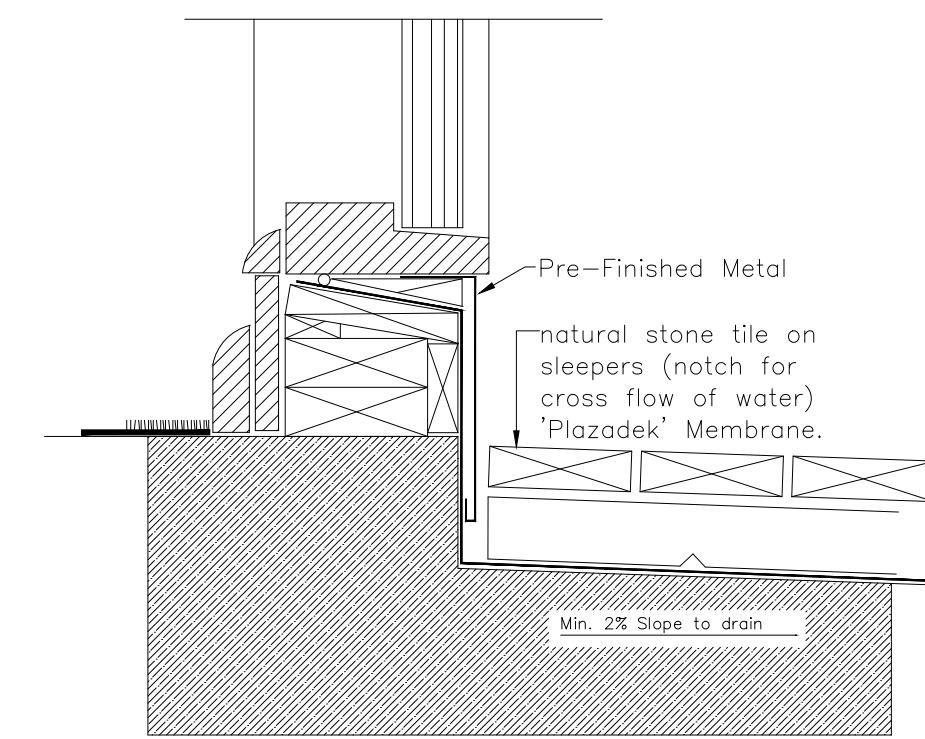
4 SKYLIGHT DETAIL



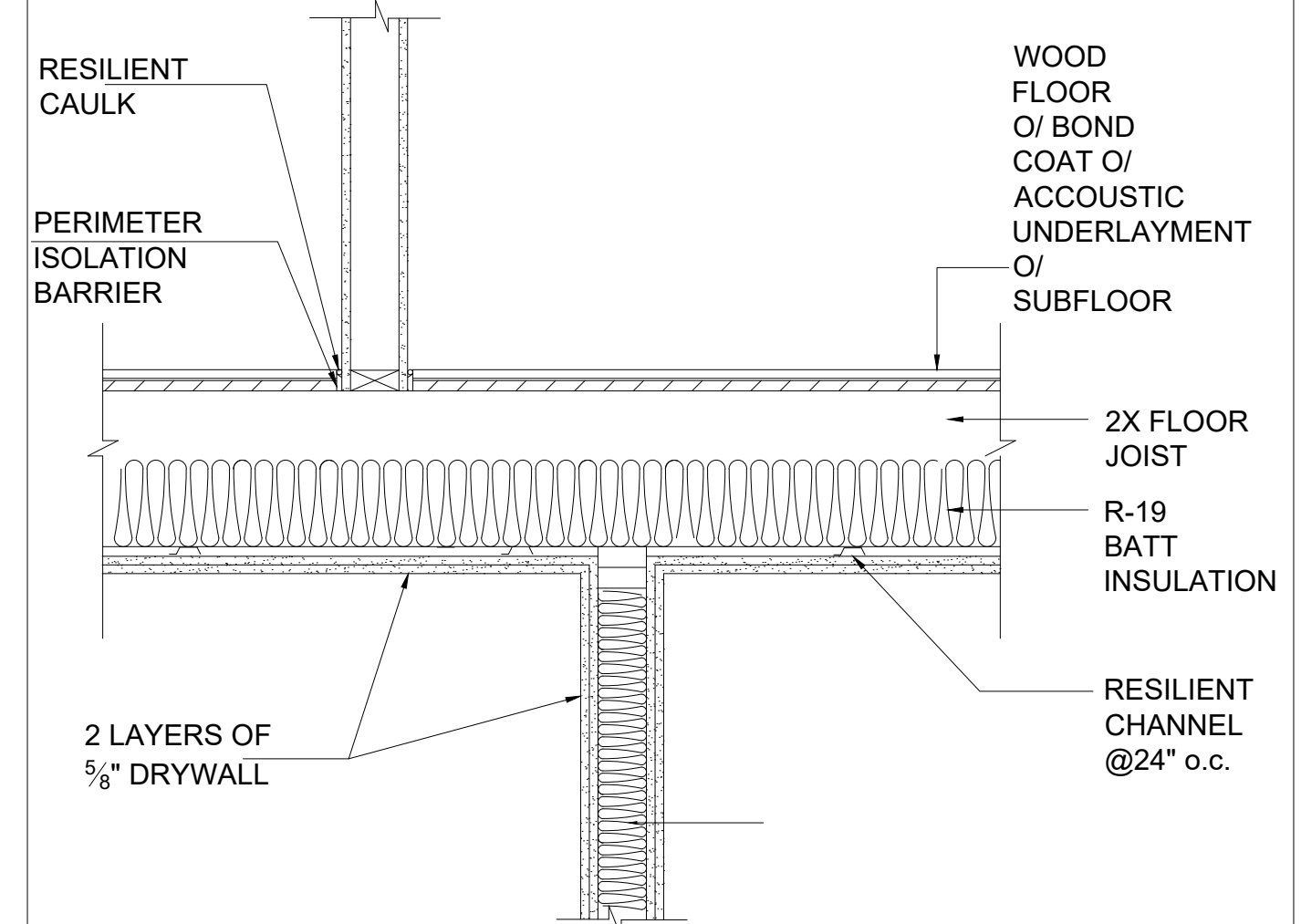
5 TYP. INTERIOR WALL DETAIL  
N.T.S.



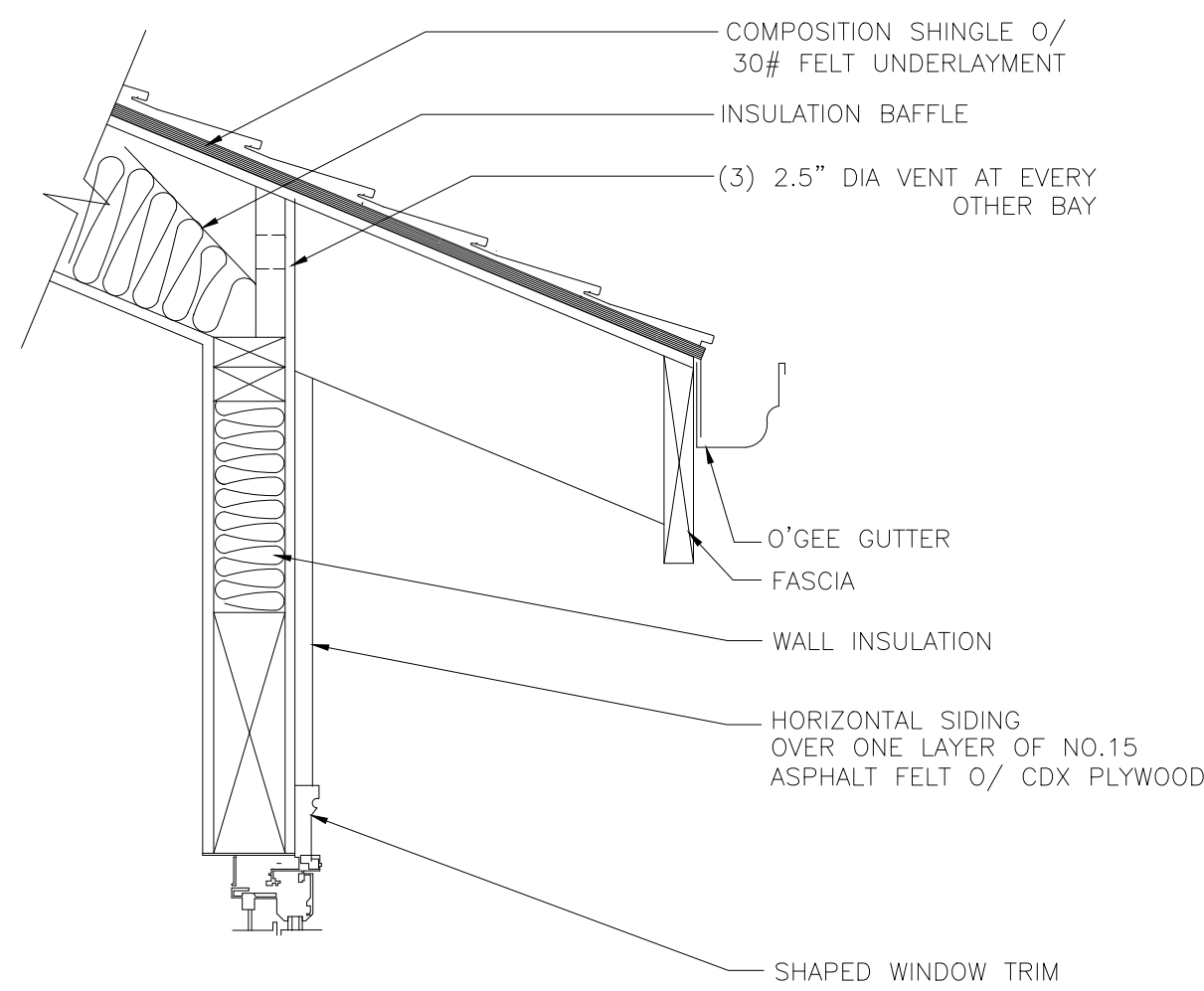
6 EXTERIOR DOOR DETAIL  
N.T.S.



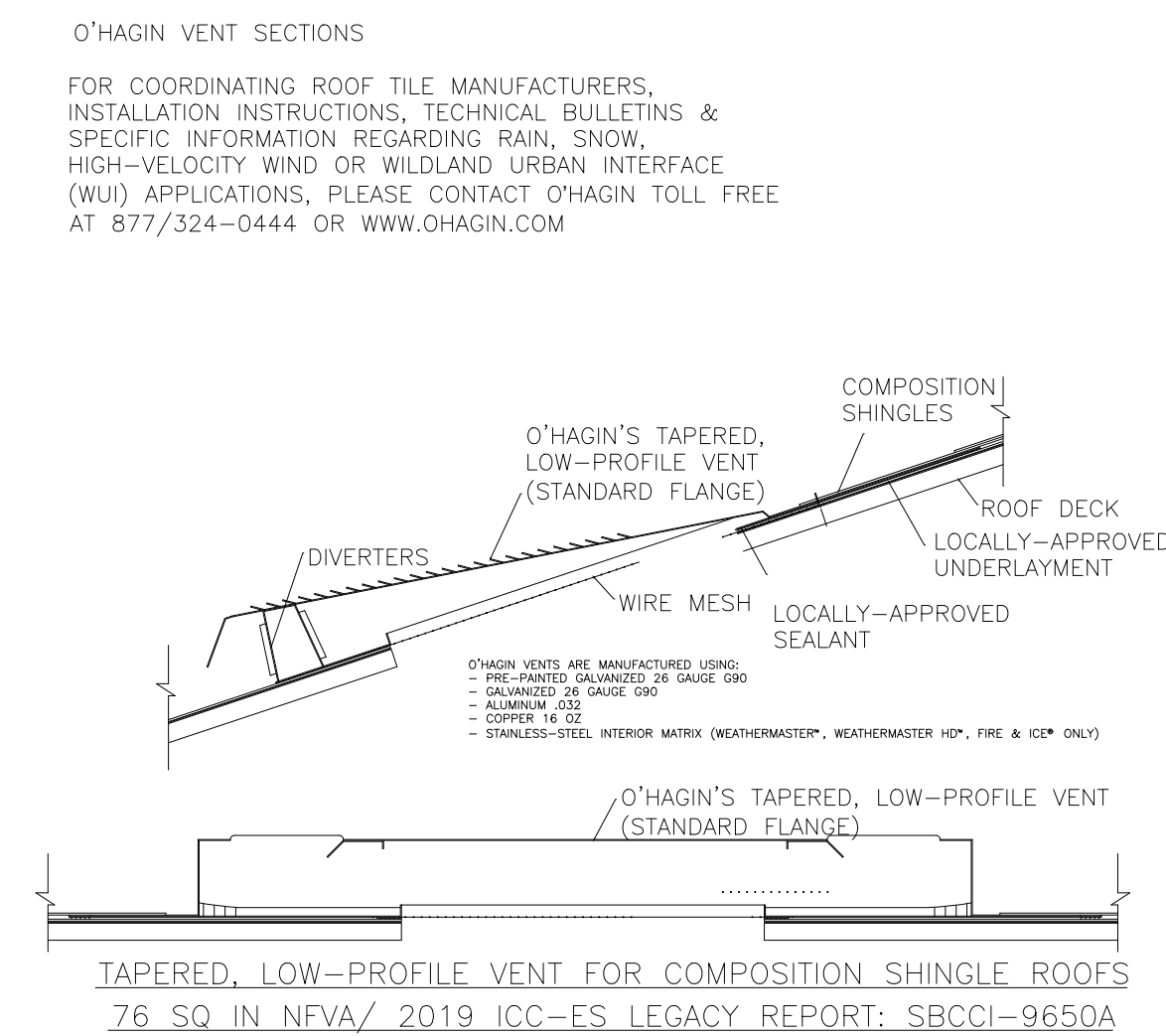
7 TRESHOLD DETAIL  
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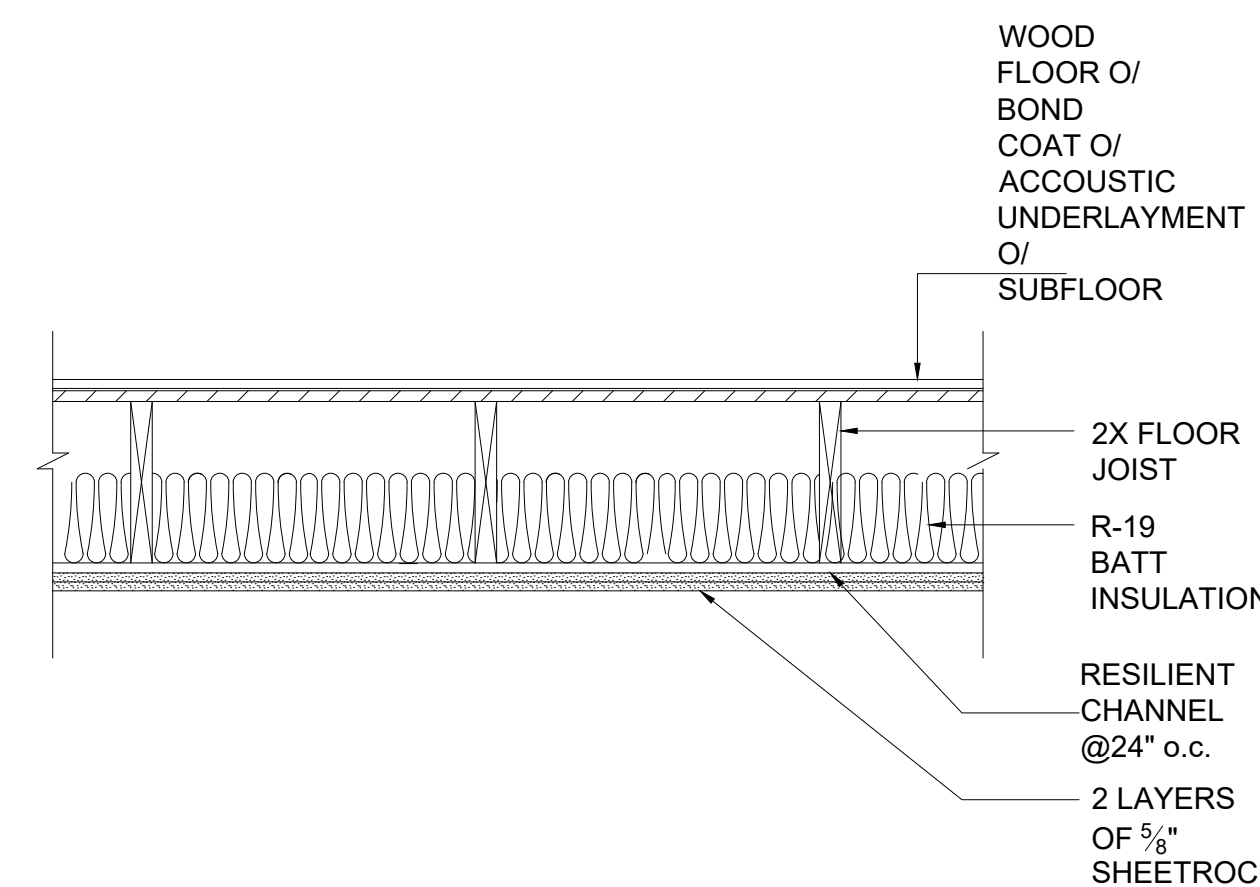
8 FLOOR/CEILING ASSEMBLY DETAIL



9 TYP. ROOF EAVE DETAIL  
N.T.S.



10 LOW PROFILE ROOF VENT DETAIL  
N.T.S.



11 TYP. ACOUSTIC CEILING DETAIL

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SHAH DESIGNS

DRAWN: AJ  
CHECKED: RS  
SCALE:  
DATE: 15-06-2022

**2019 CALIFORNIA GREEN BUILDING CODE REQUIREMENTS (CALGREEN CODE OR CGC)**

**FEATURE OR MEASURE (FOR FULL DETAILS OF THE CODE REQUIREMENTS SEE THE 2019 CAL GREEN CODE) YES/NO AND PLAN REFERENCE**

**SITE DEVELOPMENT (5.106)**

A PLAN HAS BEEN DEVELOPED AND WILL BE IMPLEMENTED TO MANAGE STORM WATER DRAINAGE DURING CONSTRUCTION PER CGC 4.106.2 & 4.106.3

**WATER EFFICIENCY AND CONSERVATION INDOOR WATER USE (CGC 5.303)**

PLUMBING FIXTURES (WATER CLOSETS AND URINALS) SHALL COMPLY WITH THE FOLLOWING:

- THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GAL/FLUSH (CGC 403.1.1)
  - THE EFFECTIVE FLUSH VOLUME OF URINALS SHALL NOT EXCEED 0.5 GAL/FLUSH (CGC 403.1.2)
- FITTINGS (FAUCETS AND SHOWERHEADS) HAVE ALL REQUIRED STANDARDS LISTED ON PLANS AND ARE IN ACCORDANCE TO CGC 4.303.1.3 AND CGC 403.1.4 AUTOMATIC IRRIGATION SYSTEM CONTROLLER FOR LANDSCAPING PROVIDED BY THE BUILDER AND INSTALLED AT THE TIME OF FINAL INSPECTION SHALL COMPLY WITH CGC 4.304

**ENHANCED DURABILITY AND REDUCED MAINTENANCE**

ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENINGS IN SOLE/BOTTOM PLATES AT EXTERIOR WALLS SHALL BE RODENT PROOFED BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY, OR SIMILAR METHOD ACCEPTABLE TO THE ENFORCING AGENCY PER CGC 4.406.1

**CONSTRUCTION WASTE REDUCTION, DISPOSAL, AND RECYCLING (CGC 5.408)** A MINIMUM OF 50% OF THE NON-HAZARDOUS CONSTRUCTION AND DEMOLITION WASTE GENERATED AT THE SITE SHALL BE DIVERTED TO AN OFFSITE RECYCLE, DIVERSION, OR SALVAGE FACILITY PER CGC 4.408

**BUILDING MAINTENANCE AND OPERATION (CGC 5.410)** AN OPERATION AND MAINTENANCE MANUAL WILL BE PROVIDED TO THE BUILDING OCCUPANT OR OWNER PER CGC 4.410.1

**ENVIRONMENTAL QUALITY**

ANY GAS FIREPLACES SHALL BE A DIRECT-VENT SEALED-COMBUSTIBLE TYPE. ANY WOOD STOVE OR PELLET STOVE SHALL COMPLY WITH US EPA PHASE II EMISSION LIMITS PER CGC 4.503.1

**POLUTANT CONTROL (CGC 5.504)**

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 COMPONENTS OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METALS, OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF WATER, DUST OR DEBRIS, WHICH MAY ENTER THE SYSTEM PER CGC 4.504.1. PAINTS AND COATINGS SHALL COMPLY WITH VOC LIMITS PER CGC 4.504.2.2. AEROSOL PAINTS AND COATINGS SHALL MEET THE PRODUCT-WEIGHTED MIR LIMITS FOR ROC AND OTHER REQUIREMENTS PER CGC 4.504.2.3. DOCUMENTATION WILL BE PROVIDED, AT THE REQUEST OF THE BUILDING DIVISION, TO VERIFY COMPLIANCE WITH VOC FINISH MATERIALS PER CGC 4.504.2.4. CARPET SYSTEM INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE TESTING AND PRODUCT REQUIREMENT PER CGC 4.504.3. WHERE RESILIENT FLOORING IS INSTALLED, AT LEAST 80% OF THE FLOOR AREA RECEIVING RESILIENT FLOORING WILL COMPLY WITH THE REQUIREMENTS PER CGC 4.504.4. HARDWOOD PLYWOOD, PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR AND EXTERIOR OF THE BUILDING SHALL COMPLY WITH THE LOW FORMALDEHYDE EMISSION STANDARDS PER CGC 4.504.5

**INTERIOR MOISTURE CONTROL**

A CAPILLARY BREAK SHALL BE INSTALLED IF A SLAB ON GRADE FOUNDATION SYSTEM IS USED. THE USE OF A 4" THICK BASE OF ½" OR LARGER CLEAN AGGREGATE UNDER A 6 MIL VAPOR RETARDER WITH JOINT LAPPED NOT LESS THAN 6" WILL BE PROVIDED PER CGC 4.505.2 AND CRC R506.2.3. BUILDING MATERIALS WITH VISIBLE SIGNS OF WATER DAMAGE SHALL NOT BE INSTALL. WALL AND FLOOR FRAMING SHALL NOT BE ENCLOSED WHEN THE FRAMING MEMBERS EXCEED 19% MOISTURE CONTENT. MOISTURE CONTENT SHALL BE CHECKED PRIOR TO FINISH MATERIAL BEING APPLIED PER CGC 4.505.3.

**INDOOR AIR QUALITY AND EXHAUST**

EXHAUST FANS, WHICH ARE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING, SHALL BE PROVIDED IN EVERY BATHROOM PER CGC 4.506.1.

**ENVIRONMENTAL COMFORT (CGC 5.507)**

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

- HEAT LOSS/HEAT GAIN VALUES IN ACCORDANCE WITH ANSI/ACCA 2 MANUAL J-2004 OR EQUIVALENT;
- DUCT SYSTEMS ARE SIZED ACCORDING TO ANSI/ACCA 1, MANUAL D-2009 OR EQUIVALENT;
- SELECT HEATING AND COOLING EQUIPMENT IN ACCORDANCE WITH ANSI/ACCA 3, MANUAL S-2004 OR EQUIVALENT.

**INSTALLER SPECIAL INSPECTOR QUALIFICATION**

HVAC SYSTEM INSTALLERS SHALL BE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS AND EQUIPMENT BY A RECOGNIZED TRAINING OR CERTIFICATION PROGRAM PER CGC 702.1.

**RESIDENTIAL BATHROOM (2019 CRC,CPC)**

- \* MIXING VALVE IN A SHOWER SHALL BE PRESSURE BALANCING SET A MAX. 120 °F. WATER-FILLER VALVE IN BATHTUBS SHALL HAVE A TEMP. LIMITING DEVICE SET AT 120 °F MAX.
- \* SHOWER STALLS SHALL BE A MIN. FINISHED INTERIOR OF 1,024 SQ. INCHES. CLEAR CEENTER DIMENSION OF A 30", & DOORS SHALL SWING OUT WITH OPENINGS 22" MIN.
- \* THE WATER CLOSET SHALL HAVE MIN. CLEARANCES OF 30" WIDTH (15" ON CENTER) AND 24" IN THE FRONT.
- \* ALL RECEPTACLES SHALL BE GFCI AND TAMPER-RESISTANT (TR). NEW OUTLETS SHALL HAVE A DEDICATED 20-AMP CIRCUIT.
- \* HYDRO-MASSAGE TUBS SHALL HAVE MOTOR ACCESS, A DEDICATED CIRCUIT, AND BE UL LISTED. ALL METAL, CABLES, FITTINGS, PIPING, ETC. WITHIN 5' OF THE INSIDE WALL OF THE TUB SHALL BE PROPERLY BONDED WITH AN ACCESS PANEL.
- \* LIGHTING FIXTURES LOCATED WITHIN 3' HORIZONTALLY AND 8' VERTICALLY OF THE TUB/SHOWER SHALL BE LISTED FOR A DAMP LOCATION, OR WET LOCATIONS IF THE SUBJECT TO SHOWER SPRAY.
- \* AN EXHAUST FAN SHALL BE INSTALLED AND BE ON A SEPARATE SWITCH FROM THE LIGHTING.
- \* GLAZING IN TUB SHOWER ENCLOSURES SHALL BE SAFETY GLAZING WHEN > 60" ABOVE THE STANDING SURFACE.

\* GLAZING WITHIN 60" OF A TUB/SHOWER AND LESS THAN 60" ABOVE THE FINISHED FLOOR SHALL BE SAFETY GLAZING.  
 \* LIGHTING SHALL BE HIGH EFFICACY FIXTURES (E.G. FLOURESCENT) OR BE CONTROLLED BY A SWITCH WHICH REQUIRES MANUAL ACTIVATION AND AUTOMATICALLY TURNS OFF WITHIN 30 MINS. AFTER THE ROOM IS VACATED.  
 \* THE CALIFORNIA CIVIL CODE REQUIRES THAT ALL EXISTING NON-WATER EFFICIENT PLUMBING FIXTURES THROUGHOUT THE HOUSE BE UPGRADED. HOUSES CONSTRUCTED AFTER JANUARY 1, 1994 ARE EXEMPT.

- TOILETS: >1.6 GALLONS, SHALL BE REPLACED WITH 1.2 GALLONS/FLUSH
- SHOWERHEADS: > 2.5 GALLONS/MINUTE SHALL BE REPLACED WITH MAX. 2.0 GALLONS/MINUTE
- BATH SINK FAUCETS: > 1.5 GALLONS/MINUTE SHALL BE REPLACED WITH MAX. 1.2 GALLONS/MINUTE
- KITCHEN SINK FAUCET: >2.2 GALLONS/MINUTE SHALL BE REPLACED WITH MAX. 1.8 GALLONS/MINUTE

\* SMOKE ALARMS SHALL BE PROVIDED IN ALL SLEEPING ROOMS AND ADJACENT HALLWAYS, MULTI-LEVELS, AND BASEMENTS. EXISTING SMOKE ALARMS SHALL BE REPLACED IF OLDER THAN 10 YEARS. NEWLY INSTALLED SMOKE ALARMS SHALL HAVE A 10-YEAR BATTERY.  
 \* CARBON MONOXIDE ALARM SHALL BE INSTALLED IN HALLWAYS ADJACENT TO BEDROOMS AND EACH LEVEL.  
 \* ATLEAST 1 LIGHT IN ALL BATHROOMS SHALL BE HIGH EFFICACY.  
 \* ALL OTHER BATHROOM LIGHTS ARE HIGH EFFICACY LUMANIRIES OR CONTROLLED BY A VACANCY SENSOR THAT COMPLIES WITH CEC SECTION 110.9(b) AND SHALL NOT HAVE A CONTROL THAT ALLOWS THE LUMINARIES TO BE TURNED ON AUTOMATICALLY OR THAT HAS AN OVERRIDE ALLOWING THE LUMINARIES TO BE ALWAYS ON.

**RESIDENTIAL FOUNDATION INSPECTION**

PROVIDE CONCRETE-ENCASED GROUNDING ELECTRODE (UFER). MINIMUM 20' OF ½" UNCOATED REBAR OR #4 COPPER WIRE TO BE ENCASED IN 2" OF CONCRETE IN THE BOTTOM OF THE FOOTING

ALL ANCHOR BOLTS, HOLDDOWNS, AND UFER GORUND SHALL BE IN PLACE AT THE FOUNDATION INSPECTION.

**LIGHTING NOTES (2019 CALIFORNIA TITLE 24 SECTION 150)**

- \* NEWLY INSTALLED LIGHTING IN BATHROOMS, GARAGES, LAUNDRY ROOMS SHALL BE HIGH EFFICACY FIXTURES (E.G. FLUORESCENT) OR BE CONTROLLED BY AN VACANCY SENSOR.
- \* NEW INSTALLED LIGHTING IN BEDROOMS, FAMILY ROOM, LIVING ROOMS, HALLWAYS, DINING ROOMS, ETC. SHALL BE HIGH EFFICACY FIXTURES (E.G. FLUORESCENT), OR ALL SWITCHES SHALL BE DIMMER SWITCHES, OR BE CONTROLLED BY AN VACANCY SENSOR.
- \* ALL NEW LUMINARIES SHALL BE HIGH EFFICIENCY AND BE CONTROLLED BE A VACANCY SENSOR OF DIMMER EXCEPT THAT BATHROOM, LAUNDRY ROOMS, UTILITY ROOMS, AND GARAGE SHALL BE CONTROLLED BY VACANCY SENSOR.

\* RECESSED LIGHTING FIXTURES SHALL BE RATED AS AIR-TIGHT (AT) AND, WHEN INSTALLED IN AN INSULATED CEILING SHALL HAVE AN APPROVED ZERO CLEARANCE INSULATION COVER (IC).

\* OUTDOOR LIGHTING PERMANENTLY MOUNTED TO THE BUILDING SHALL BE HIGH EFFICACY FIXTURES (E.G. FLUORESCENT) OR CONTROLLED BY A MOTION SENSOR WITH INTEGRAL PHOTO CONTROL.

\* CLOSET LIGHTS SHALL BE FLUORESCENT OR HAVE A SEALED LENS. (2016 CEC 410.16)

\* ATLEAST 1 LIGHT IN ALL BATHROOMS SHALL BE HIGH EFFICACY.

\* ALL OTHER BATHROOM LIGHTS ARE HIGH EFFICACY LUMINARIES OR CONTROLLED BY A VACANCY SENSOR THAT COMPLIES WITH CEC SECTION 110.9(b) AND SHALL NOT HAVE A CONTROL THAT ALLOWS THE LUMINARIES TO BE TURNED ON AUTOMATICALLY OR THAT HAS AN OVERRIDE ALLOWING THE LUMINARIES TO BE ALWAYS ON.

**PLUMBING FIXTURE REQUIREMENTS FOR FLOW RATES IN ACCORDANCE WITH CGBSC SECTION 4.303**

- \* WATER CLOSETS - 1.28 PER FLUSH. CGBSC SECTION 4.303.1.1
- \* URINALS - 0.5 GALLONS PER FLUSH. CGBSC SECTION 4.303.1.2
- \* SINGLE SHOWERHEAD - 2.0 gpm AT 80 psi. CGBSC SECTION 4.303.1.3.1
- \* MULTIPLE SHOWERHEADS SERVING ONE SHOWER - COMBINED FLOW RATE OF ALL SHOWERHEADS AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE - 2.0 gpm AT 80 psi. CGBSC SECTION 4.303.1.3.2
- \* LAVATORY FAUCETS - 1.2 gpm AT 60 psi (MINIMUM SHALL NOT BE LESS THAN 0.8 gpm AT 60 psi). CGBSC 4.303.1.4.1
- \* KITCHEN FAUCETS - 1.8 gpm AT 60 psi. CGBSC SECTION 4.303.1.4.4

**EGRESS NOTE (2019 CRC)**

WHERE EMERGENCY AND RESCUE OPENINGS ARE PROVIDED THEY SHALL HAVE THE BOTTOM OF THE CLEAR OPENING NOT GREATER THAN 44" (1118 MM) MEASURED FROM THE FLOOR.(R310.1)

ALL EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM OPENING OF 5.7 SQ.F. (0.503 SQ.M.)

GRADE FLOOR OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5 SQ.F. (0.465 SQ.M.) R310.1.1

THE MINIMUM NET CLEAR OPENING HEIGHT SHALL BE 24" (610MM) R310.1.2  
 THE MINIMUM NET CLEAR OPENING WIDTH SHALL BE 20" (508MM) R310.1.3

EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL BE MAINTAINED FREE OF ANY OBSTRUCTION OTHER THAN THOSE ALLOWED BY THIS SECTION AND SHALL BE OPERATIONAL FROM THE INSIDE OF THE ROOM WITHOUT THE USE OF KEYS, TOOLS OR SPECIAL KNOWLEDGE. R310.1.4

**ELEVATION DETAILS (2019 CRC)**

- \* STUCCO SHALL BE ⅞" THICK AND THREE COAT APPLIED OVER APPROVED WIRE LATH AND TWO LAYERS OF GRADE 'D' BUILDING PAPER. PROVIDE WEEP SCREED. (CBC 2510.6 /CRC R703.6)
- \* SIDING SHALL BE APPLIED OVER ONE LAYER OF GRADE 'D' BUILDING PAPER. (CBC 1404.2/CRC R703.2)
- \* PROVIDE A SPARK ARRESTOR FOR ANY NEW OR EXISTING CHIMNEY. (CBC 2113.9.1/CRC 1003.9.1)
- \* ROOF SLOPES >2:12 AND <4:12 WITH ASPHALT SHINGLES SHALL HAVE TWO LAYERS OF 15 LB FELT APPLIED SHINGLE STYLE. (CBC 1507.2.2/CRC 905.2.2)
- \* PROVIDE ALL UNDER-FLOOR AREAS WITH CROSS VENTILLATION AT ¼<sub>150</sub> FOR THE ENTIRE AREA WITH 50% OF THE REQUIRED VENT AREA BE VENTILLATORS LOCATED A MINIMUM OF 3' ABOVE EAVE OR CORNICE VENTS. SCREENS OVER THE OPENINGS SHALL HAVE ⅜" TO ¼" OPENINGS. (CBC 1203/CRC R806)
- \* PROVIDE ATTIC ACCESS (22" X 30") AND UNDER-FLOOR ACCESS (18" X 24") FOR NEW AREAS. (CBC 1209/R408.4)
- \* PROVIDE UNDER-FLOOR CLEARANCE OF 18" FOR JOISTS TO EARTH AND 12" CLEARANCE FROM GIRDDERS TO EARTH. (CBC 2304.11.2.1/CRC R317.1)

\* THE CALIFORNIA CIVIL CODE REQUIRES THAT ALL EXISTING NON-WATER EFFICIENT PLUMBING FIXTURES THROUGHOUT THE HOUSE BE UPGRADED. HOUSES CONSTRUCTED AFTER JANUARY 1, 1994 ARE EXEMPT.

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\* SMOKE ALARMS SHALL BE PROVIDED IN ALL SLEEPING ROOMS AND ADJACENT HALLWAYS, MULTI-LEVELS, AND BASEMENTS. EXISTING SMOKE ALARMS SHALL BE REPLACED IF OLDER THAN 10 YEARS. NEWLY INSTALLED SMOKE ALARMS SHALL HAVE A 10-YEAR BATTERY.  
 \* CARBON MONOXIDE ALARM SHALL BE INSTALLED IN HALLWAYS ADJACENT TO BEDROOMS AND EACH LEVEL.  
 ELECTRICAL NOTES (2019 CEC)

- \* PROVIDE GENERAL USE ELECTRICAL RECEPTACLES SO THAT NO POINT ALONG THE FLOOR LINE IS MORE THAT 6' FROM A RECEPTACLE AND ANY WALL SPACE >2' HAS A RECEPTACLE (EXCEPT IN BATHROOMS AND KITCHEN COUNTERTOPS). (210.52)
- \* NEW RECEPTACLES HSALL BE TAMPER-RESISTANT (TR). (406.11)
- \* ALL NEW OUTLETS (RECEPTACLES, SWITCHES, LIGHTING, ETC.) IN FAMILY, DINING, LIVING, BEDROOMS, HALLWAYS, ETC. SHALL BE ON CIRCUITS PROTECTED WITH A COMBINATION ARC-FAULT CIRCUIT INTERRUPTER., (210.12)
- \* SMOKE (WITH A 10-YEAR BATTERY) AND CARBON MONOXIDE ALARMS IN NEW CONSTRUCTION AND ADDITIONS SHALL HARDWIRED WITH A BATTERY BACK-UP AND INTERCONNECTED. (CBC 907.2.11, CRC R314, CRC R315.)
- \* CLOSET LIGHTS SHALL BE FLOURESCENT, HAVE SEALED LENS, OR LED LISTED FOR THE STORAGE AREA. (410.16)
- \* PROVIDE A DEDICATED 20 AMP CIRCUIT FOR THE FURNACE AND PROVIDE A RECEPTACLE WITHIN 25'. (210.63)
- \* KITCHEN LIGHTING; MIN. OF 50% OF THE TOTAL RATED LIGHTING WATTAGE(BASED ON THE MAXIMUM ALLOWED FOR EACH FIXTURE) SHALL BE FLOURESCENT. THE "RESIDENTIAL KITCHEN LIGHTING WORKSHEET" SHALL BE COMPLETED AND PROVIDED TO THE BUILDING INSPECTOR AT THE ROUGH ELECTRICAL INSPECTION. (2016 CA TITLE 24 SECTION 150)
- \* BATHROOM LIGHTING: HIGH EFFICACY FIXTURES (E.G. FLOURESCENT) OR BE CONTROLLED BY AN OCCUPANT SENSOR WITH CONTROLS REQUIRING A MANUAL ON AND AUTO OFF.
- \* ATLEAST 1 LIGHT IN ALL BATHROOMS SHALL BE HIGH EFFICACY.
- \* ALL OTHER BATHROOM LIGHTS ARE HIGH EFFICACY LUMANIRIES OR CONTROLLED BY A VACANCY SENSOR THAT COMPLIES WITH CEC SECTION 110.9(b) AND SHALL NOT HAVE A CONTROL THAT ALLOWS THE LUMINARIES TO BE TURNED ON AUTOMATICALLY OR THAT HAS AN OVERRIDE ALLOWING THE LUMINARIES TO BE ALWAYS ON.

ISSUED/REVISED

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DRAWN: AJ

CHECKED: RS

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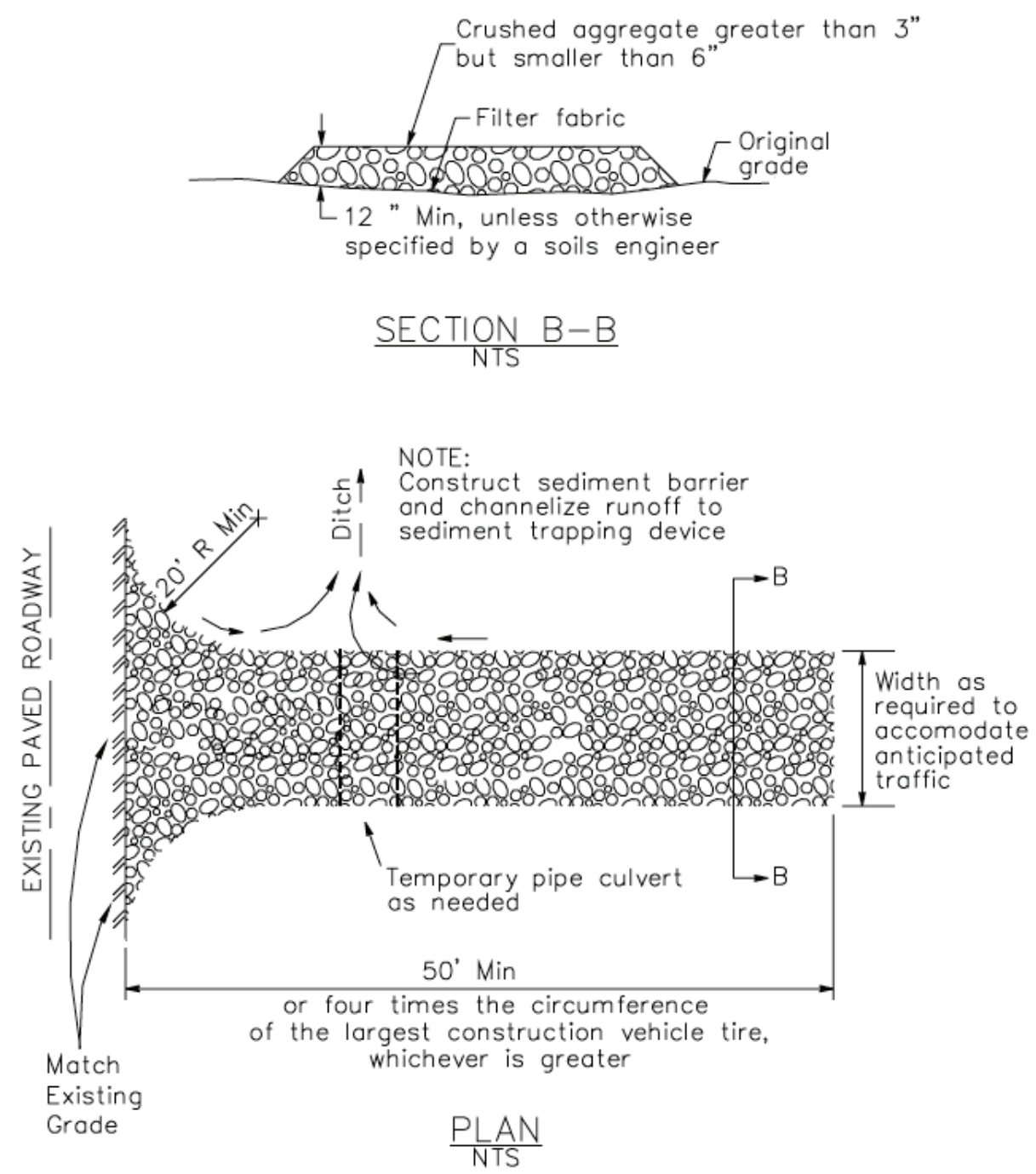
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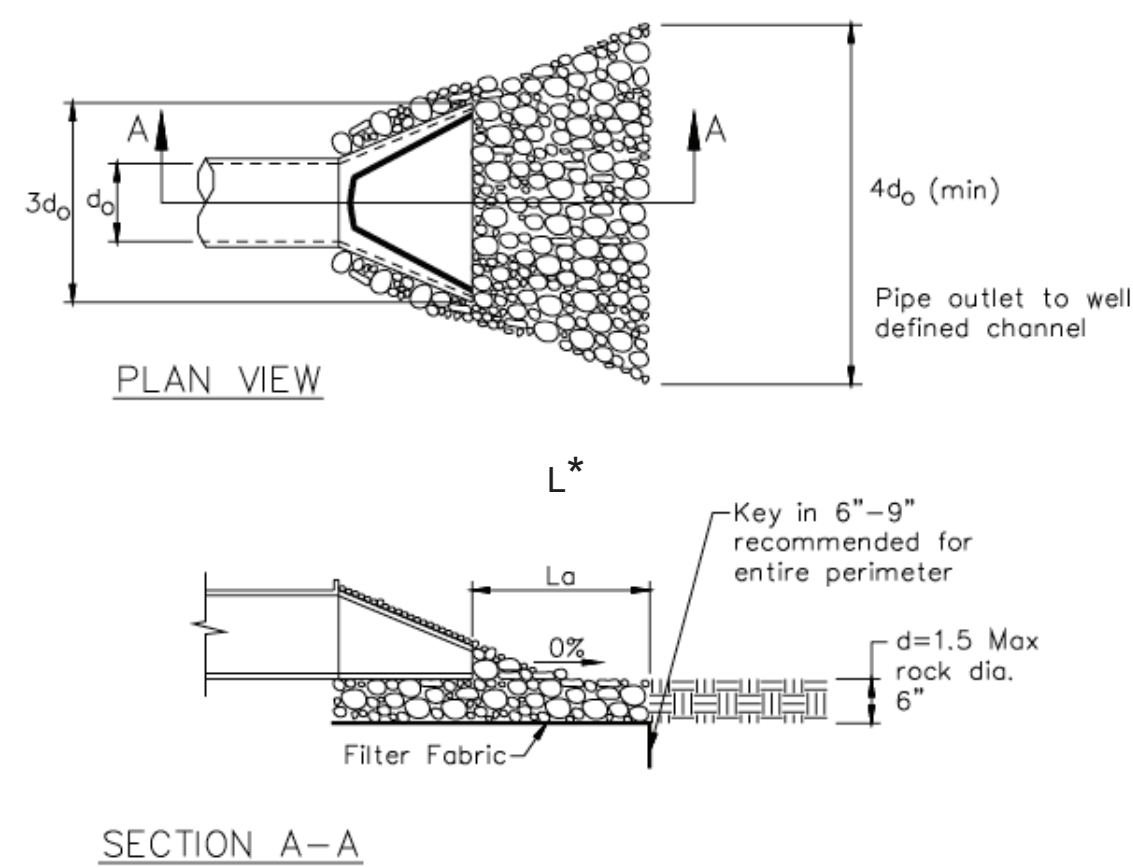
### 3 Stabilized Construction Entrance/Exit

CASQA Detail TC-1



### 4 Velocity Dissipation Devices

CASQA Detail EC-10

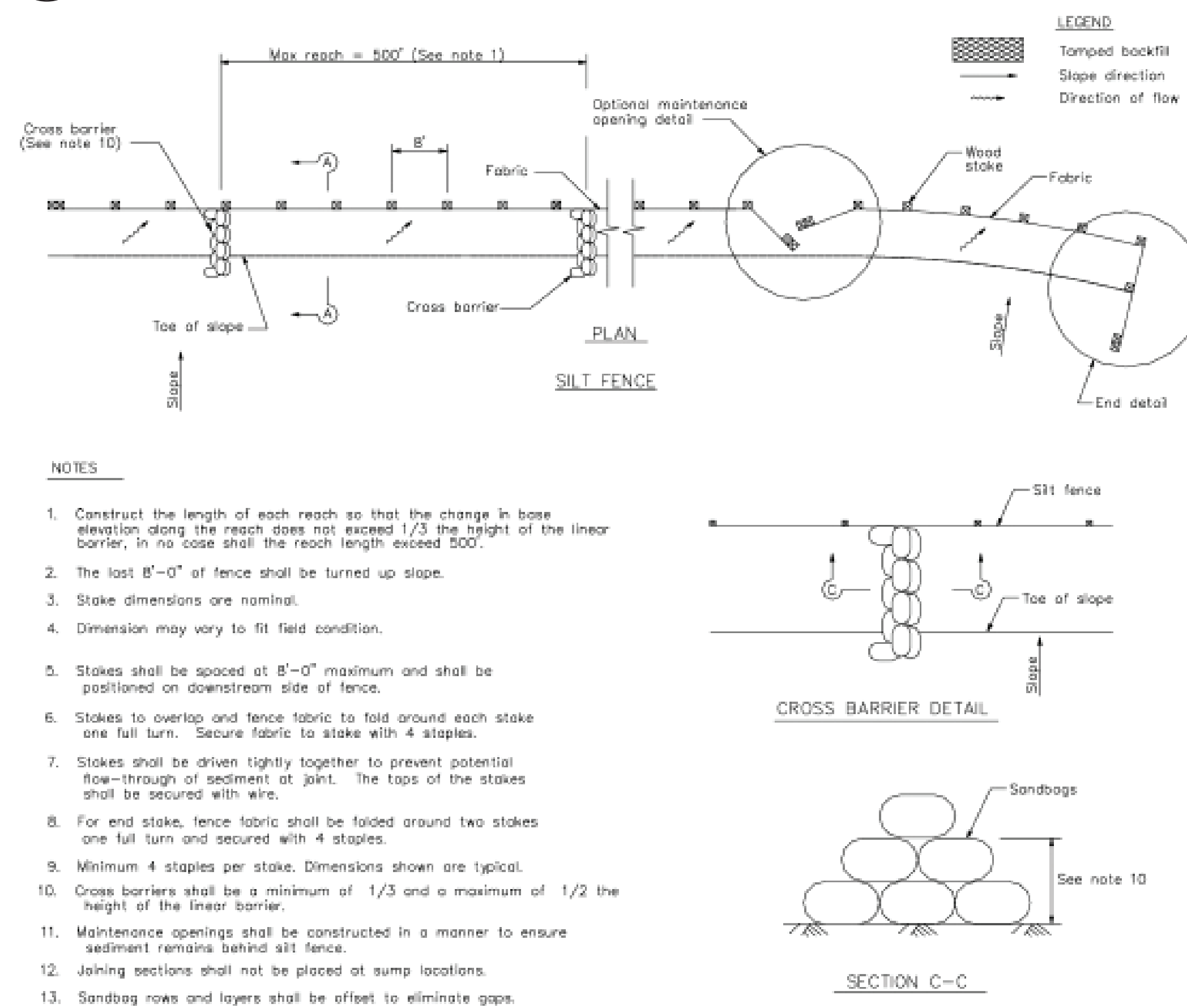


\* Length per ABAG Design Standards

Source for Graphics: California Stormwater BMP Handbook, California Stormwater Quality Association, January 2003. Available from www.cabmphandbooks.com.

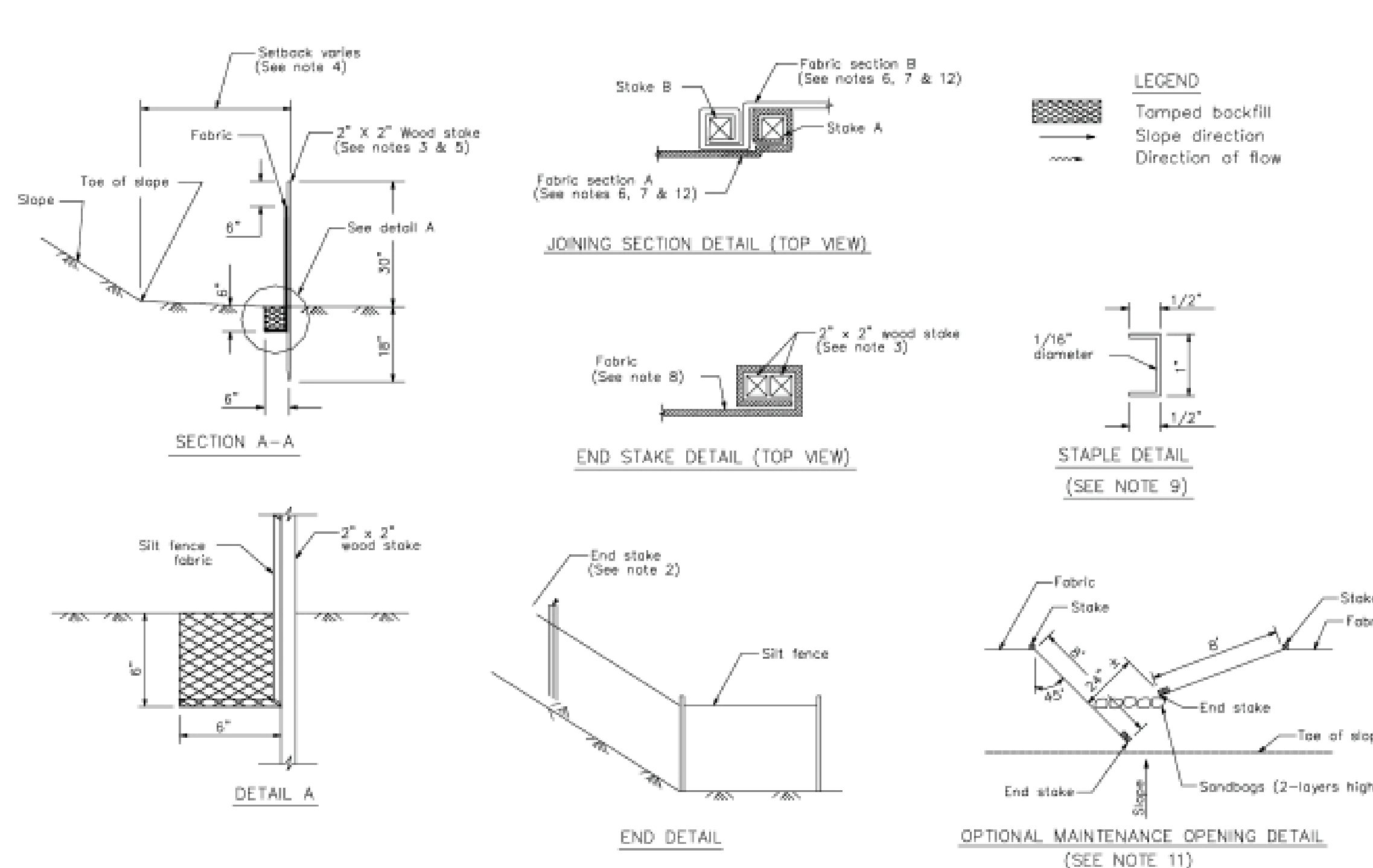
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CASQA Detail SE-1



### 2 Silt Fence

CASQA Detail SE-1



#### STANDARD BEST MANAGEMENT PRACTICE NOTES

- Solid and Demolition Waste Management:** Provide designated waste collection areas and containers on site away from streets, gutters, storm drains, and waterways, and arrange for regular disposal. Waste containers must be watertight and covered at all times except when waste is deposited. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C3) or latest.
- Hazardous Waste Management:** Provide proper handling and disposal of hazardous wastes by a licensed hazardous waste material hauler. Hazardous wastes shall be stored and properly labeled in sealed containers constructed of suitable materials. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-5 to C-6) or latest.
- Spill Prevention and Control:** Provide proper storage areas for liquid and solid materials, including chemicals and hazardous substances, away from streets, gutters, storm drains, and waterways. Spill control materials must be kept on site where readily accessible. Spills must be cleaned up immediately and contaminated soil disposed properly. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-7 to C-8, C-13 to C-14) or latest.
- Vehicle and Construction Equipment Service and Storage:** An area shall be designated for the maintenance, where on-site maintenance is required, and storage of equipment that is protected from stormwater run-on and runoff. Measures shall be provided to capture any waste oils, lubricants, or other potential pollutants and these wastes shall be properly disposed of off site. Fueling and major maintenance/repair, and washing shall be conducted off-site whenever feasible. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C9) or latest.
- Material Delivery, Handling and Storage:** In general, materials should not be stockpiled on site. Where temporary stockpiles are necessary and approved by the County, they shall be covered with secured plastic sheeting or tarp and located in designated areas near construction entrances and away from drainage paths and waterways. Barriers shall be provided around storage areas where materials are potentially in contact with runoff. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-11 to C-12) or latest.
- Handling and Disposal of Concrete and Cement:** When concrete trucks and equipment are washed on-site, concrete wastewater shall be contained in designated containers or in a temporary lined and watertight pit where wasted concrete can harden for later removal. If possible have concrete contractor remove concrete wash water from site. In no case shall fresh concrete be washed into the road right-of-way. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-15 to C-16) or latest.
- Pavement Construction Management:** Prevent or reduce the discharge of pollutants from paving operations, using measures to prevent run-on and runoff pollution and properly disposing of wastes. Avoid paving in the wet season and reschedule paving when rain is in the forecast. Residue from saw-cutting shall be vacuumed for proper disposal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-17 to C-18) or latest.
- Contaminated Soil and Water Management:** Inspections to identify contaminated soils should occur prior to construction and at regular intervals during construction. Remediating contaminated soil should occur promptly after identification and be specific to the contaminant identified, which may include hazardous waste removal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-19 to C-20) or latest.
- Sanitary/Septic Water Management:** Temporary sanitary facilities should be located away from drainage paths, waterways, and traffic areas. Only licensed sanitary and septic waste haulers should be used. Secondary containment should be provided for all sanitary facilities. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C-21) or latest.
- Inspection & Maintenance:** Areas of material and equipment storage sites and temporary sanitary facilities must be inspected weekly. Problem areas shall be identified and appropriate additional and/or alternative control measures implemented immediately, within 24 hours of the problem being identified.

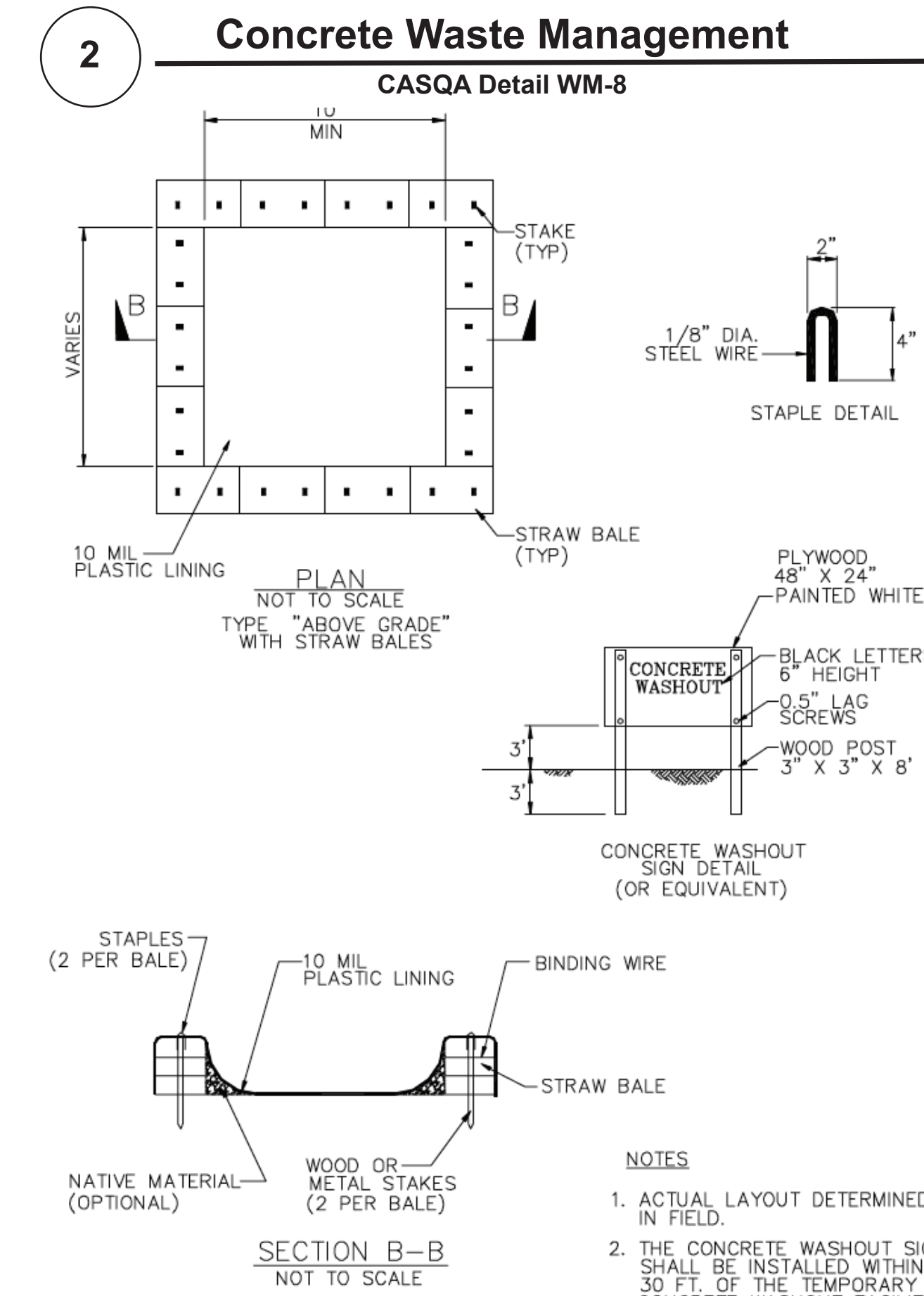
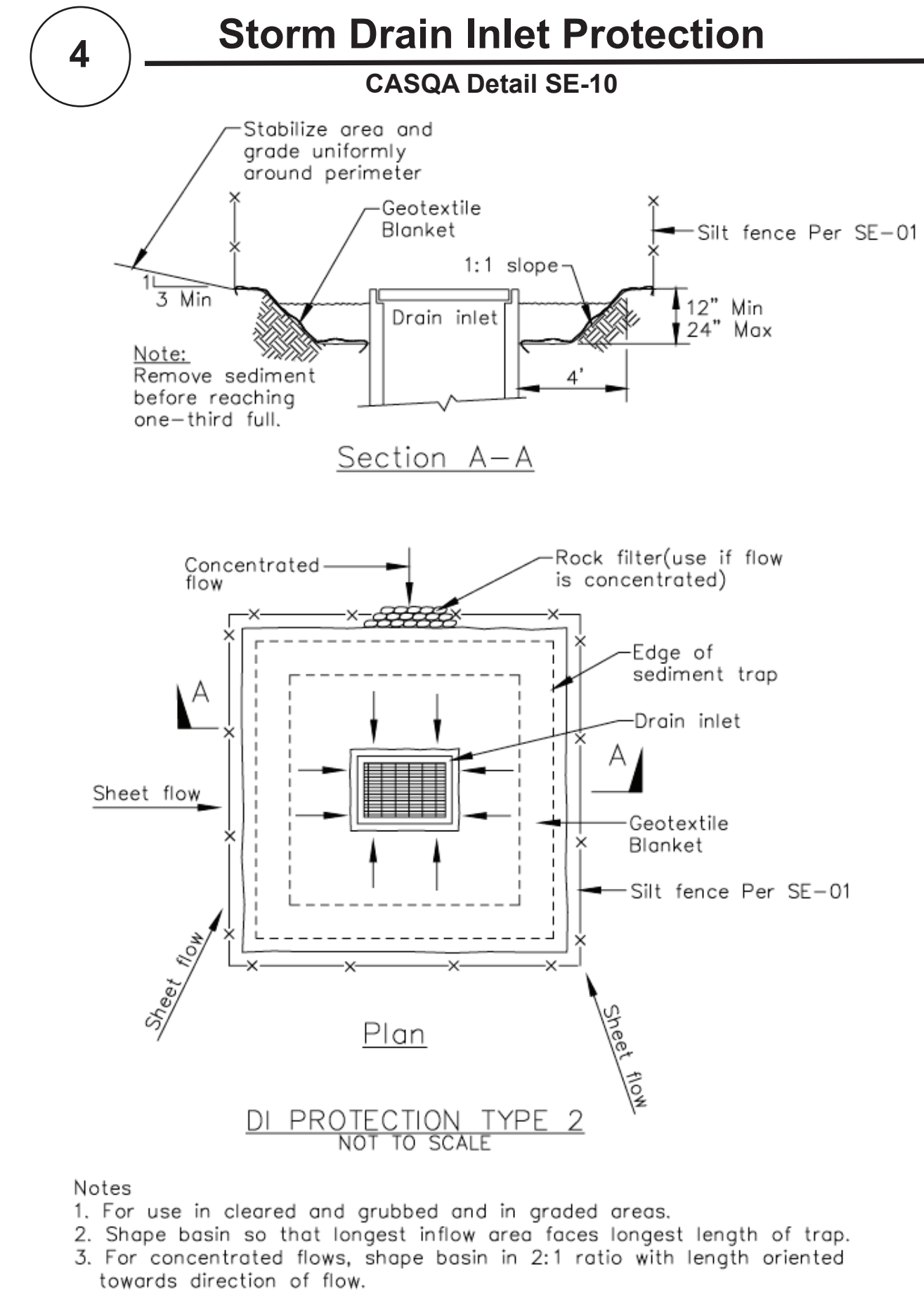
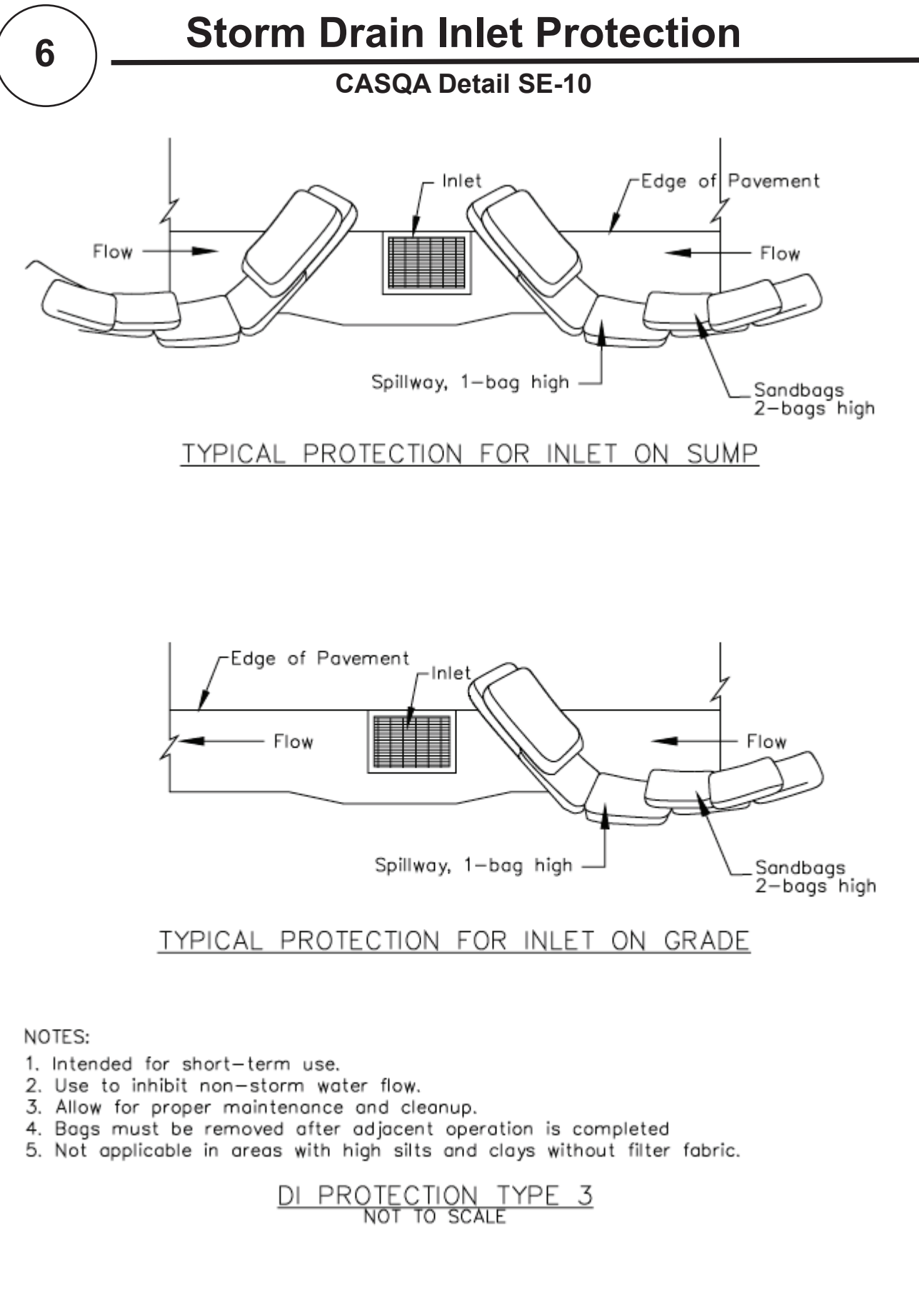
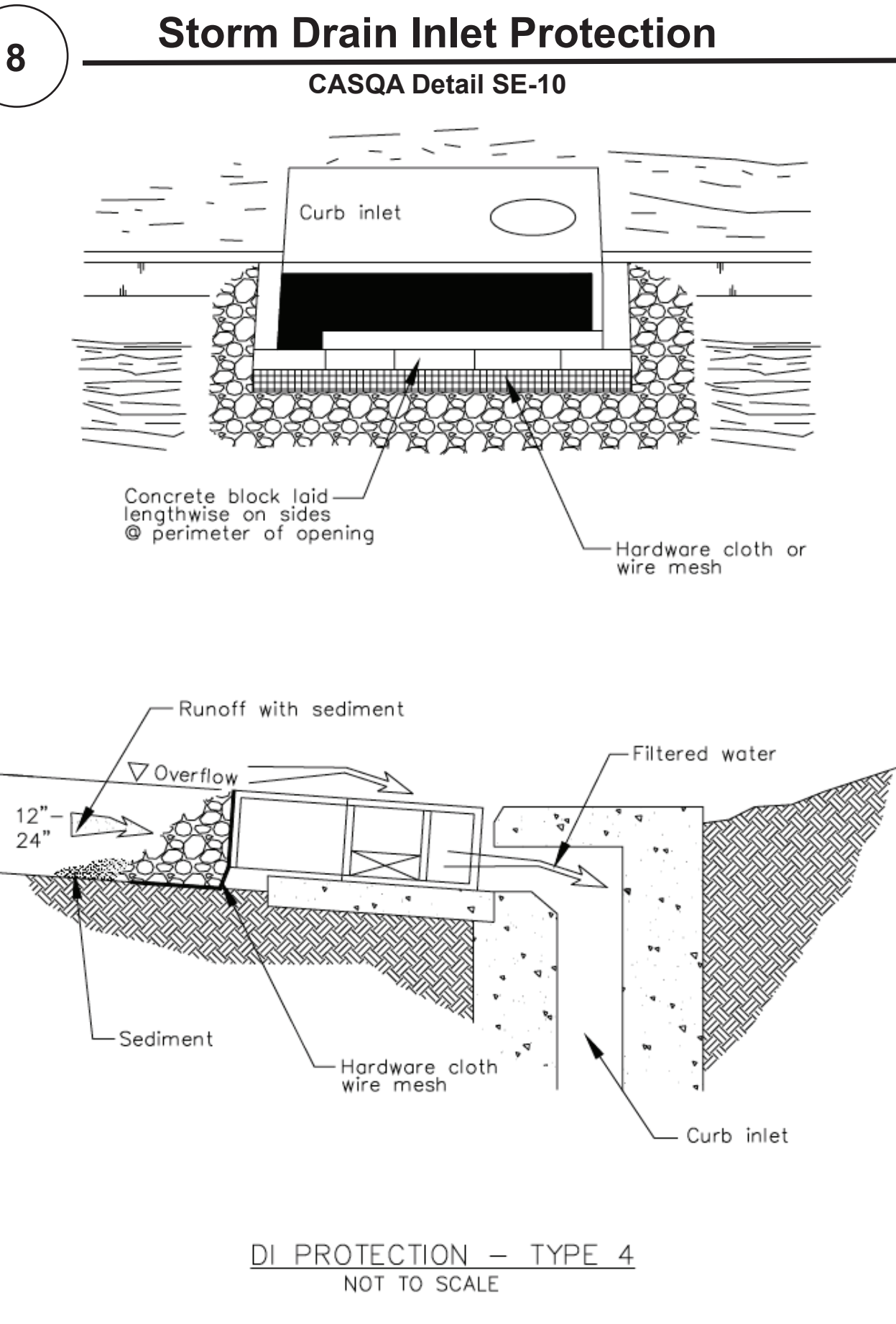
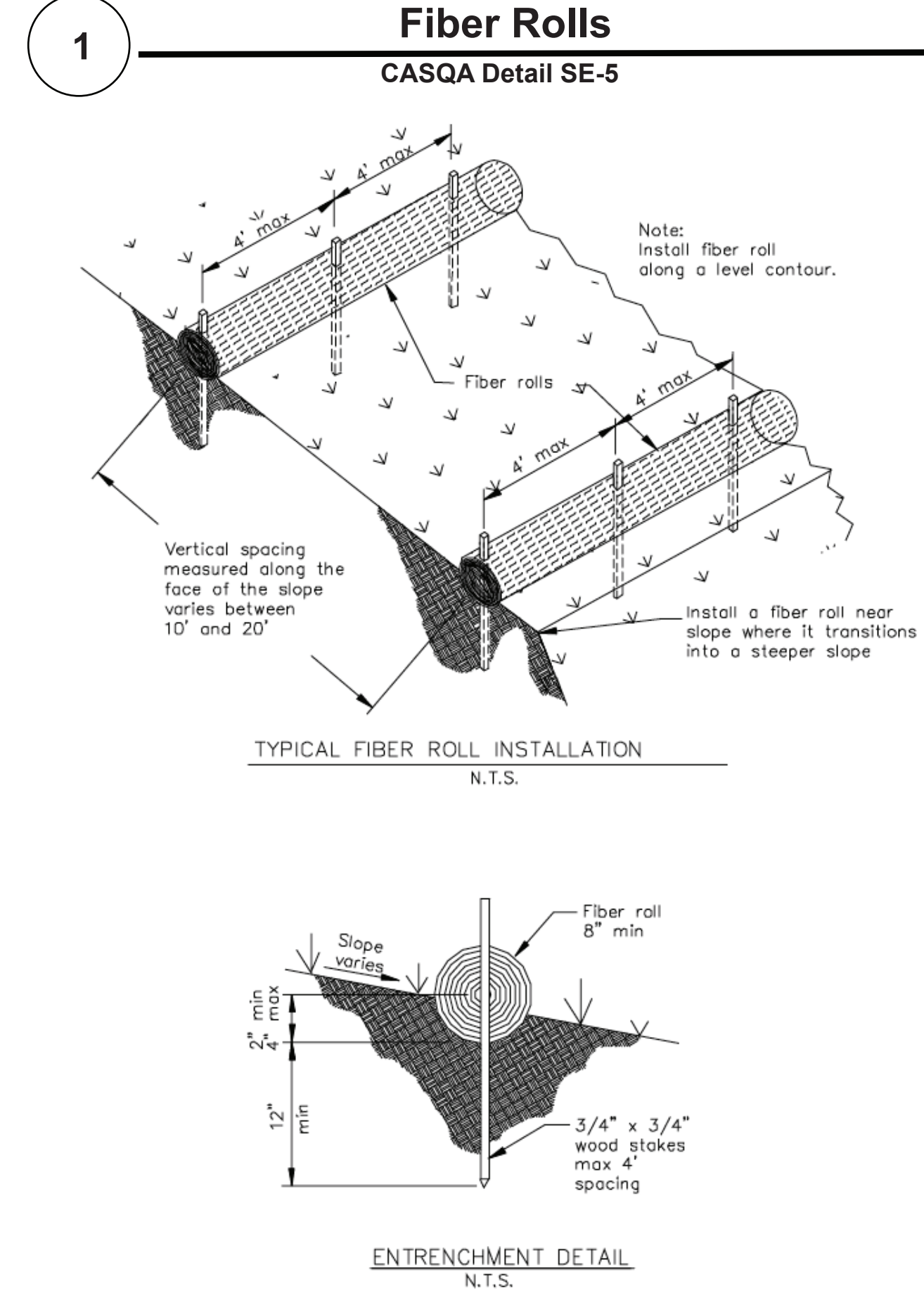
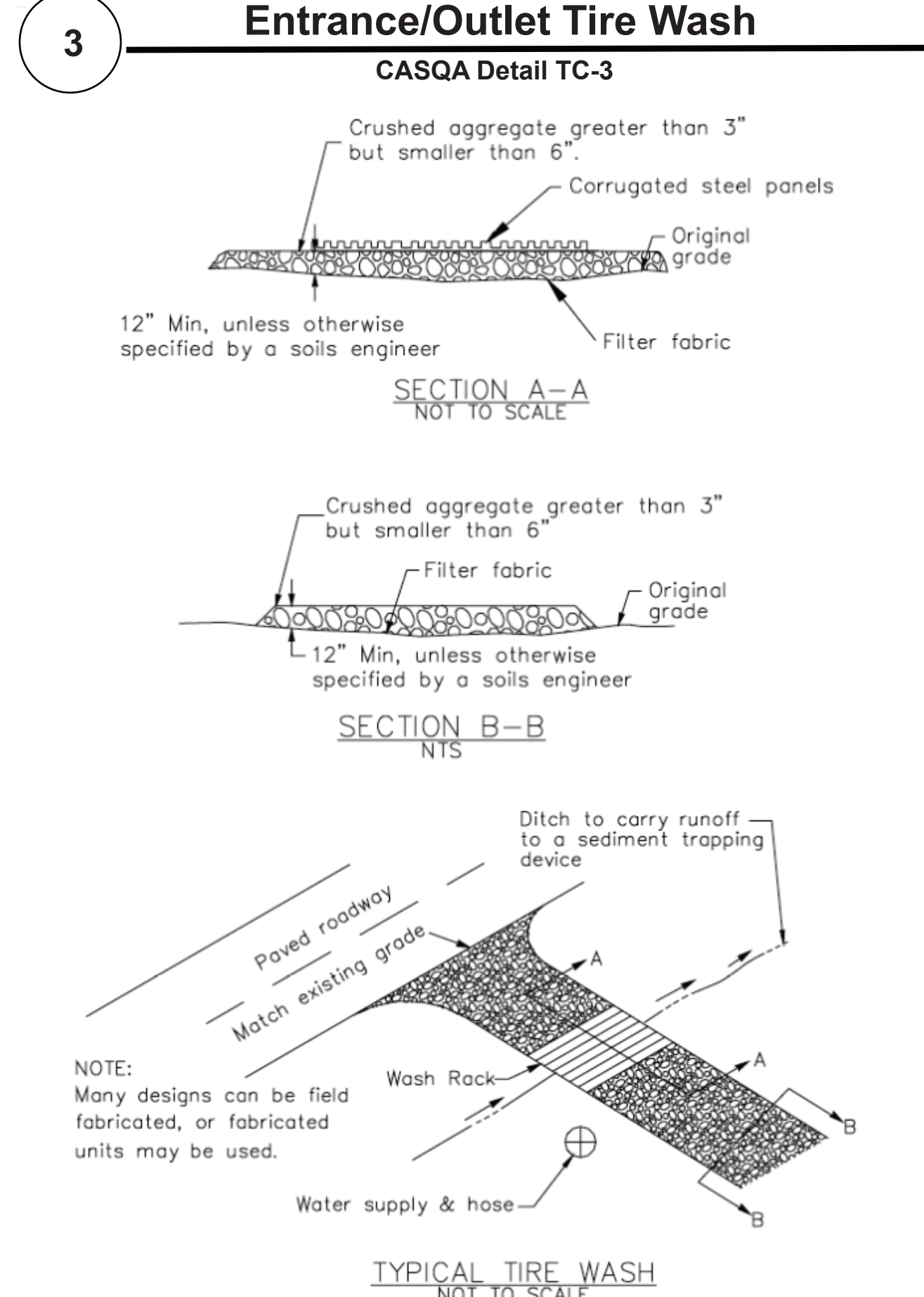
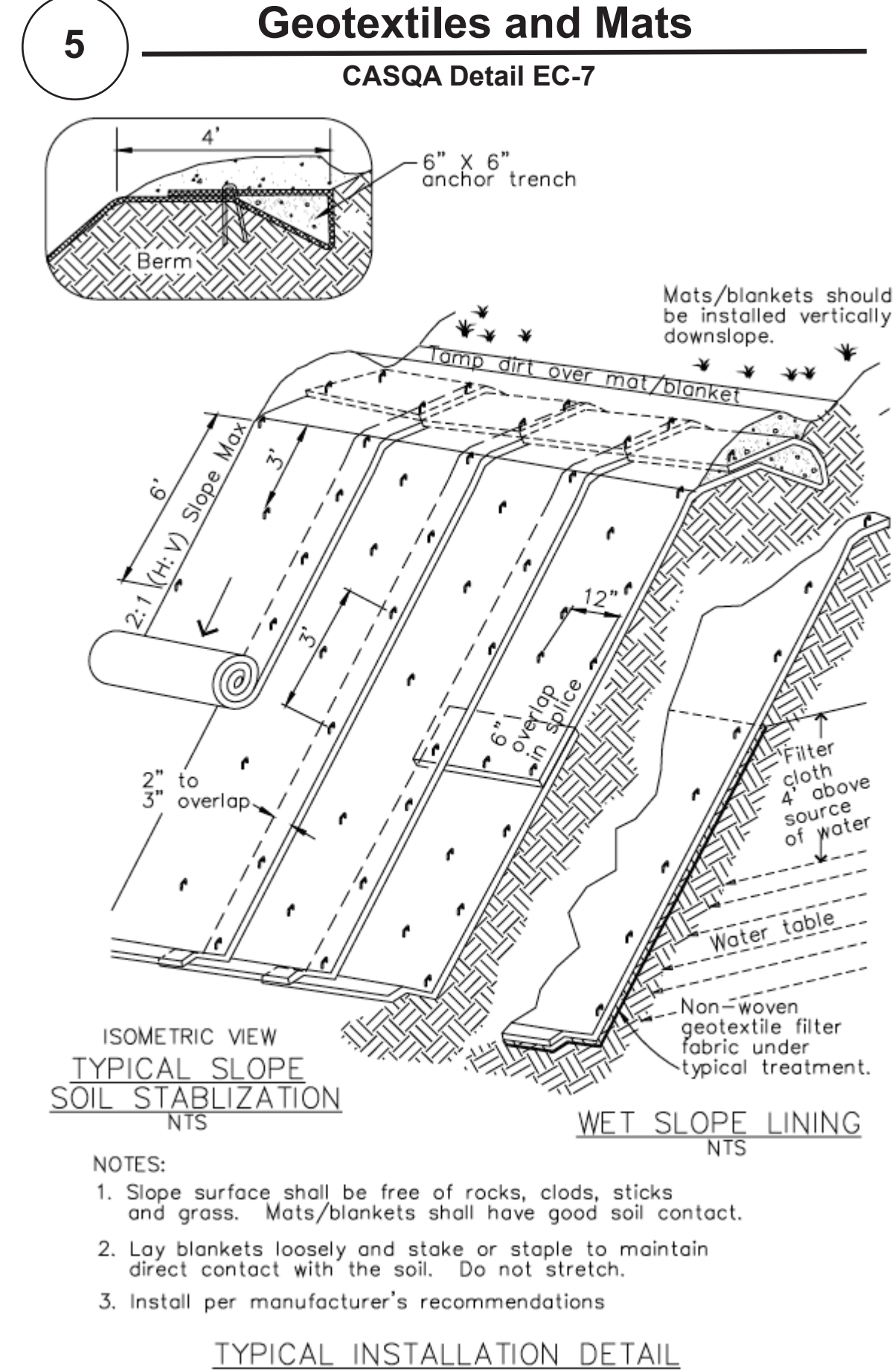
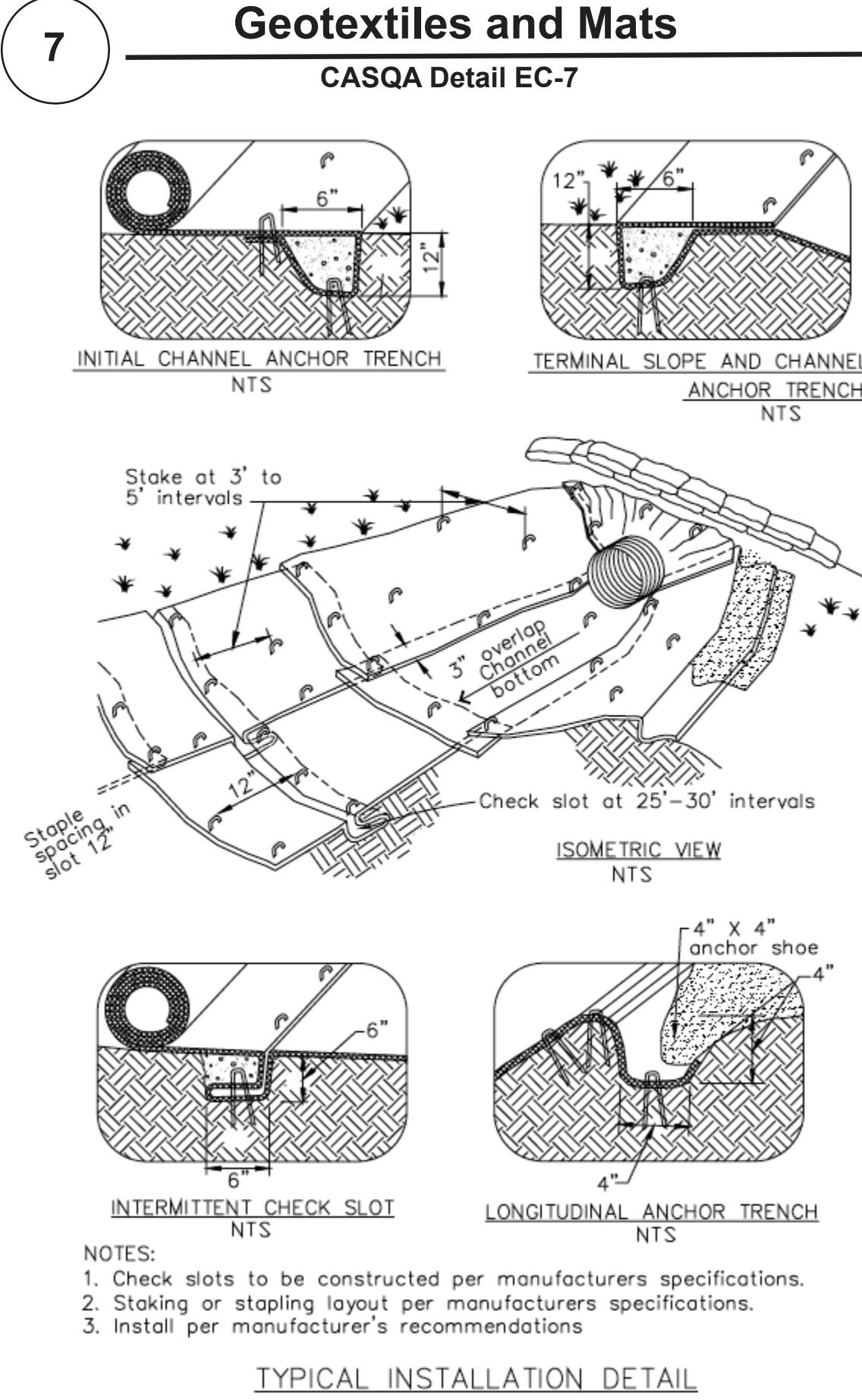
#### STANDARD EROSION CONTROL NOTES

- Sediment Control Management:**
  - Tracking Prevention & Clean Up:** Activities shall be organized and measures taken as needed to prevent or minimize tracking of soil onto the public street system. A gravel or proprietary device construction entrance/exit is required for all sites. Clean up of tracked material shall be provided by means of a street sweeper prior to an approaching rain event, or at least once at the end of each workday that material is tracked, or, more frequently as determined by the County Inspector. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages B-31 to B-33) or latest.
  - Storm Drain Inlet and Catch Basin Inlet Protection:** All inlets within the vicinity of the project and within the project limits shall be protected with gravel bags placed around inlets or other inlet protection. At locations where exposed soils are present, staked fiber rolls or staked silt fences can be used. Inlet filters are not allowed due to clogging and subsequent flooding. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages B-49 to B-51) or latest.
  - Storm Water Runoff:** No storm water runoff shall be allowed to drain in to the existing and/or proposed underground storm drain system or other above ground watercourses until appropriate erosion control measures are fully installed.
  - Dust Control:** The contractor shall provide dust control in graded areas as required by providing wet suppression or chemical stabilization of exposed soils, providing for rapid clean up of sediments deposited on paved roads, furnishing construction road entrances and vehicle wash down areas, and limiting the amount of areas disturbed by clearing and earth moving operations by scheduling these activities in phases.
  - Stockpiling:** Excavated soils shall not be placed in streets or on paved areas. Borrow and temporary stockpiles shall be protected with appropriate erosion control measures (tarps, straw bales, silt fences, etc.) to ensure silt does not leave the site or enter the storm drain system or neighboring watercourse.
- Erosion Control:** During the rainy season, all disturbed areas must include an effective combination of erosion and sediment control. It is required that temporary erosion control measures are applied to all disturbed soil areas prior to a rain event. During the non-rainy season, erosion control measures must be applied sufficient to control wind erosion at the site.
- Inspection & Maintenance:** Disturbed areas of the Project's site, locations where vehicles enter or exit the site, and all erosion and sediment controls that are identified as part of the Erosion Control Plans must be inspected by the Contractor before, during, and after storm events, and at least weekly during seasonal wet periods. Problem areas shall be identified and appropriate additional and/or alternative control measures implemented immediately, within 24 hours of the problem being identified.
- Project Completion:** Prior to project completion and signoff by the County Inspector, all disturbed areas shall be reseeded, planted, or landscaped to minimize the potential for erosion on the subject site.
- It shall be the Owner's/Contractor's responsibility to maintain control of the entire construction operation and to keep the entire site in compliance with the erosion control plan.
- Erosion and sediment control best management practices shall be operable year round or until vegetation is fully established on landscaped surfaces.

## Project Information

**SINGLE FAMILY RESIDENCE**  
NO. 13685  
**STREET** SYCAMORE AVE,  
**CITY** SAN MARTIN, CA  
**ZIP CODE** 95046

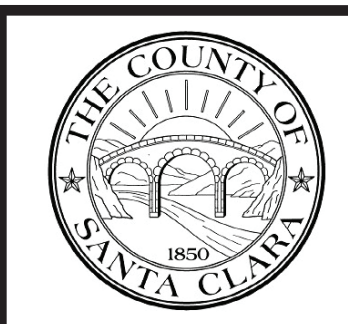




Source for Graphics: California Stormwater BMP Handbook, California Stormwater Quality Association, January 2003. Available from www.cabmphandbooks.com.

**Project Information**

**SINGLE FAMILY RESIDENCE**  
NO. 13685  
**STREET** SYCAMORE AVE,  
**CITY** SAN MARTIN, CA  
**ZIPCODE** 95046



**SHEAR WALL SCHEDULE**

MARK	SHEATING	NO. OF SIDES	EDGE NAIL	FIELD NAIL	PLATE NAIL (6" LONG)	SHEAR CLIP	MUDSILL ANCHORS		ALLOWABLE SHEAR (plf)	REMARKS SEE SHEAR WALL NOTES
							2X MUDSILL	3X MUDSILL		
A	1/2" OSB OR PLY'D	Single	8d @ 6"	8d @ 12"	1/4" Screws @ 0'-8"	A35 @ 2'-0"	5/8" x 10 @ 4'-0"	5/8" x 12 @ 4'-0"	260	1
B	1/2" OSB OR PLY'D	Single	8d @ 4"	8d @ 12"	1/4" Screws @ 0'-6"	A35 @ 1'-4"	5/8" x 10 @ 4'-0"	5/8" x 12 @ 4'-0"	350	1
C	1/2" OSB OR PLY'D	Single	8d @ 3"	8d @ 12"	1/4" Screws @ 0'-4"	A35 @ 1'-4"	5/8" x 10 @ 2'-8"	5/8" x 12 @ 2'-8"	490	1,2
D	1/2" OSB OR PLY'D	Single	8d @ 2"	8d @ 12"	1/4" Screws @ 0'-4"	A35 @ 1'-0"	5/8" x 10 @ 1'-4"	5/8" x 12 @ 1'-4"	640	1,2
E	1/2" STRUCT I	Single	10d @ 2"	10d @ 12"	1/4" Screws @ 0'-8"	A35 @ 0'-8"	5/8" x 10 @ 1'-4"	5/8" x 12 @ 1'-4"	870	1,2
2C	1/2" OSB OR PLY'D EACH SIDE	Double	8d @ 3"	8d @ 12"	3/8" Screws @ 0'-3"	A35 @ 0'-8" (OR TWO SIDES @ 16")	5/8" x 10 @ 1'-4"	5/8" x 12 @ 1'-4"	980	1,2
2D	1/2" OSB OR PLY'D EACH SIDE	Double	8d @ 2"	8d @ 12"	3/8" Screws @ 0'-3"	A35 @ 0'-5" (OR TWO SIDES @ 10")	5/8" x 10 @ 1'-0"	5/8" x 12 @ 1'-0"	1280	1,2
2E	1/2" STRUCT I EACH SIDE	Double	10d @ 2"	10d @ 12"	1/4"SDS SCREWS@0'-3"	A35 @ 0'-4" (OR TWO SIDES @ 8")	5/8" x 10 @ 0'-10"	5/8" x 12 @ 1'-0"	1740	1,2

**HOLD-DOWN SCHEDULE**

MARK	FASTENRES	MINIMUM WOOD MEMBER THICKNESS	ANCHOR BOLT	EPOXY INSTALLED ANCHORS	CAPACITY (lbs)
HDU2	(6)- SDS1/4x2 1/2"	2-2X4 / 4X4	5/8" (SB5/8X24)	5/8" X 12" EMBED	3075
HDU4	(10)- SDS1/4x2 1/2"	4X4	5/8" (SB5/8X24)	5/8" X 12" EMBED	4565
HDU5	(14)- SDS1/4x2 1/2"	4X4	5/8" (SB5/8X24)	5/8" X 12" EMBED	5645
HDU8-L	(20)- SDS1/4x2 1/2"	4X4	7/8" (SB7/8X24)	7/8" X 14" EMBED	5980
HDU8-H	(20)- SDS1/4x2 1/2"	4X6 OR LARGER	7/8" (SB7/8X24)	7/8" X 14" EMBED	7870
HDU11-L	(30)- SDS1/4x2 1/2"	4X6 OR LARGER	1" (SB1X30)	1" X 18" EMBED	9535
HDU11-H	(30)- SDS1/4x2 1/2"	4X8 OR LARGER	1" (SB1X30)	1" X 18" EMBED	11175
HDU14	(36)- SDS1/4x2 1/2"	4X8 OR LARGER	1" (SB1X30)	1-1/8" X 18" EMBED	14445

**SHEAR WALL NOTES**

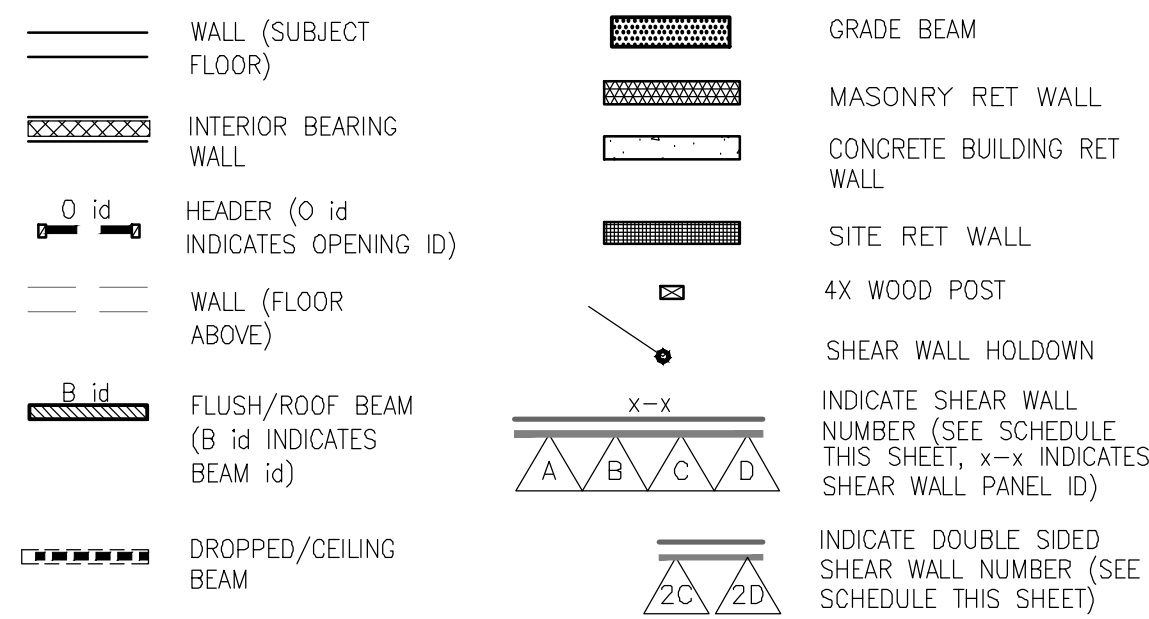
- WALL SHALL BE FRAMED WITH STUDS AT 16" O.C. OR PANELS ARE APPLIED WITH LONG DIMENSION ACROSS STUDS.
- 3-INCH NOMINAL MEMBER OR TWO 2-INCH NOMINAL MEMBERS FASTENED IN ACCORDANCE WITH SECTION 2306.1 TO TRANSFER THE DESIGN SHEAR VALUE BETWEEN FRAMING MEMBERS. WOOD STRUCTURAL PANEL JOINT AND SILL PLATE NAILING SHALL BE STAGGERED IN ALL CASES.
- ALL HARDWARE SHALL BE USP STRUCTURAL CONNECTORS OR SIMPSON STRONG TIE U.O.N.
- ALL EXTERIOR WALLS SHALL BE SHEATHED WITH 3/8" PLYWOOD WITH 8d AT 6" O.C. EDGES AND 12" O.C. THE FIELD UNLESS OTHERWISE NOTED IN THE SHEAR WALL SCHEDULE.
- WHERE 3X ADJOINING STUDS ARE REQUIRED AND THERE ARE EXISTING 2X STUDS, DOUBLE EXISTING STUDS AND STITCH NAIL WITH 16d SPACED AT 2 1/2" o.c.

LOAD TYPE	PARAMETERS	VALUE UNIT
LIVE LOADS:	UNINHABITABLE ATTICS WITHOUT STORAGE	10 PSF
	UNINHABITABLE ATTICS WITH LIMITED STORAGE	20 PSF
	DECKS AND BALCONIES	60 PSF
	ALL OTHER AREAS	40 PSF
	ROOF LIVE LOADS:	20 PSF
WIND DESIGN:	WIND VELOCITY	110 MPH
	WIND EXPOSURE	B
	CATEGORY	II
	IMPORTANCE FACTOR	1.00
SEISMIC DESIGN:	S <sub>s</sub>	1.657
	S <sub>1</sub>	0.805
	SOIL CLASS	D
	RISK CATEGORY	II
	IMPORTANCE FACTOR	1.00
	SEISMIC CATEGORY	D
	RESPONSE MODIFICATION FACTOR (LIGHT FRAME)	6.50
	OVER-STRENGTH COEFFICIENT (OMEGA)	3.00
ALLOWABLE STRESS BASE SHEAR	0.12 * W	

**ABBREVIATIONS AND SYMBOLS:**

- |                                    |                                 |   |  |
|------------------------------------|---------------------------------|---|--|
| @ _____ At                         | Conc. _____ Concrete            | N.T.S. _____ Not to scale               | Fndn. _____ Foundation   |
| A.B. _____ Anchor bolt             | Conn. _____ Connection          | O.F. _____ Outside face                 | Frmg. _____ Framing  |
| C.M.U. _____ Concrete masonry unit | Const. _____ Construction       | S.A.D. _____ See architectural drawings | Ftg. _____ Footing   |
| C.O. _____ Clean out               | Cont. _____ Continuous          | T. & B. _____ Top and bottom            | Hdr. _____ Header  |
| C. _____ Camber                    | (E) _____ Existing              | T.&G. _____ Tongue and groove           | Sim. _____ Similar   |
| F.O.C. _____ Face of concrete      | F.O.S. _____ Face of stud       | H.D. _____ Holdown                      | Simp. _____ Simpson  |
| F.P. _____ Full penetration weld   | H.S.B. _____ High strength bolt | T.N. _____ Toe nail                     | Spec. _____ Specification  |
| J.H. _____ Joist hanger            | M.B. _____ Machine bolt         | B.N. _____ Boundry nail                 | Spr. _____ Spread  |
| (N) _____ New                      | ML _____ Micolam beam           | E.N. _____ Edge nail                    | Sq. _____ Square   |
| Ø _____ Diameter                   | Ht. _____ Height                | P.N. _____ Plate nail                   | Stl. _____ Steel   |
| Approx. _____ Approximately        | Jst. _____ Joist                | U.O.N. _____ Unless otherwise noted     | Struct. _____ Structural   |
| Bldg. _____ Building               | Lt.wt. _____ Light weight       | W.W.F. _____ Welded wire fabric         | Symm. _____ Symmetrical  |
| Blk. _____ Block                   | Lg. _____ Long                  | W/ _____ With                           | Thk. _____ Thick   |
| Blkg. _____ Blocking               | Max. _____ Maximum              | W/O _____ Without                       | Typ. _____ Typical   |
| Bm. _____ Beam                     | Mezz. _____ Mezzanine           | C _____ Center line                     | Vl. _____ Vertical   |
| Bot. _____ Bottom                  | Min. _____ Minimum              | Pl. _____ Plate                         | H.L. _____ Horizontal  |
| Bet. _____ Between                 | Opng. _____ Opening             | Dbt. _____ Double                       | S.W.S. _____ Shear Wall Schedule                                     |
| Cant. _____ Cantilever             | Plyd. _____ Plywood             | Det. _____ Detail                       | Verify _____ Verify & Report to this Engineer prior to construction. |
| C.C. _____ Center to center        | Proj. _____ Project             | Dia. _____ Diameter                     | See (xx) _____ For sim. details not noted or shown, see this detail. |
| Cl. _____ Clear                    | Reinf. _____ Reinforcing        | Dim. _____ Dimension                    |  |
| Clg. _____ Ceiling                 | Req'd. _____ Required           | Do. _____ Ditto                         |  |
| Col. _____ Column.                 | Sec. _____ Section              | Dwg. _____ Drawing                      |  |
|                                    | Shtg. _____ Sheathing           | Ea. _____ Each                          |  |
|                                    |                                 | Elev. _____ Elevation                   |  |
|                                    |                                 | Ext. _____ Exterior                     |  |
|                                    |                                 | Flr. _____ Floor                        |  |

**LEGEND:**



**GENERAL NOTES:**

**GENERAL**

- ALL WORK SHALL CONFORM TO 2019 CBC AND LOCAL ORDINANCES.
- THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND WHAT IS SHOWN ON THE DRAWINGS BEFORE PROCEEDING WITH THE WORK.
- ANY OMISSIONS OR CONFLICTS BETWEEN THE ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE ANY RELATED WORK IS STARTED.
- SHOP DRAWINGS REQUIRED BY THE SPECIFICATIONS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION, AND ALLOW REASONABLE TIME FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING THE CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING, BRACING AND GUYS IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES. ANY DEVIATIONS MUST BE APPROVED PRIOR TO ERECTION.
- MECHANICAL EQUIPMENT MUST BE FIRMLY ATTACHED TO THE STRUCTURE. ALL MECHANICAL EQUIPMENT INTENDED TO BE SUPPORTED ON, OR FROM THE STRUCTURE, UNLESS INDICATED WITHIN STRUCTURAL DRAWINGS, SHALL BE SUBMITTED TO THE ARCHITECT FOR ENGINEER'S APPROVAL PRIOR TO INSTALLATION.
- ALL CONDITIONS NOT CLEARLY SHOWN OR DETAILED SHALL BE OF THE SAME TYPE AND CHARACTER AS THOSE SHOWN FOR SIMILAR CONDITIONS.

**FOUNDATION**

FOUNDATION DESIGN BASED ON SOILS REPORT BY CAPEX ENGINEERING PROJECT NO 13626 DATED 1-25-2022

**CONCRETE**

- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS
- CONCRETE SHALL BE REGULAR WEIGHT HARD ROCK TYPE (150#/CF). AGGREGATE SHALL CONFORM TO ASTM C33, U.O.N.
- CEMENT SHALL CONFORM TO ASTM C150, TYPE 1 OR 2.
- PLACEMENT OF CONCRETE SHALL BE IN CONFORMANCE WITH ACI 301.
- CONCRETE SHALL BE MACHINE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C-94. SUBMIT MIX DESIGN TO THE ENGINEER FOR APPROVAL PRIOR TO PLACING CONCRETE.
- PROVIDE MINIMUM CLEAR COVER OF CONCRETE OVER REINFORCING AS FOLLOWS:  
A) AGAINST EARTH - 3 INCHES  
B) EXPOSED TO EARTH BUT POURED AGAINST FORM #3, #4 AND #5 REBARS 1.5", #6 AND LARGER = 2"  
C) PROTECTED BY CONFORM FORM AND WATERPROOFING - 1 INCHES
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A82 AND A185.
- ANCHOR BOLTS, DOWELS AND OTHER EMBEDDED ITEMS SHALL BE SECURELY TIED IN PLACE BEFORE CONCRETE IS PLACED, USE CUT THREAD ANCHOR BOLTS ONLY.

**WOOD FRAME CONSTRUCTION**

- GENERAL WOOD FRAMING: WOOD FRAMING THROUGHOUT THE BUILDING SHALL BE CONSTRUCTED IN ACCORDANCE WITH 2019 CALIFORNIA BUILDING CODE AND THE STANDARD PRACTICES RECOMMENDED BY AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND WCLA GRADING. BOLTS IN WOOD FRAMING SHALL BE STANDARD MACHINE BOLTS WITH STANDARD MALLEABLE IRON WASHERS.
- JOIST HANGER AND MISCELLANEOUS CONNECTORS: MEMBERS NOT RESTING ON, OR FRAMED OVER THEIR SUPPORT SHALL BE SUPPORTED BY MEANS OF "SIMPSON STRONG-TIE" JOIST HANGERS. HANGERS SHALL COMPLY WITH AND BE NAILED IN ACCORDANCE WITH MANUFACTURER'S ESR APPROVALS.
- WOOD IN DIRECT CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED. HOT DIPPED GALVANIZED CONNECTORS AND FASTENERS SHALL BE USED IN ALL PRESSURE TREATED WOOD CONNECTIONS.
- UNLESS OTHERWISE NOTES ON DRAWINGS OR IN SPECIFICATIONS FRAMING MEMBERS SHALL HAVE THE FOLLOWING GRADING:  
A) ALL BEAMS, COLUMNS, POSTS AND CANTILEVER JOISTS AT BALCONIES: DOUGLAS FIR, GRADE MARK - NO. 1.  
B) FRAMING: JOISTS, STUDS, PLATES, RAFTERS: DOUGLAS FIR - NO. 2.

**DEFERRED SUBMITTALS:**  
ROOF TRUSSES LAYOUT AND PLANS SHALL BE SUBMITTED TO ENGINEER OF RECORD FOR REVIEW AND APPROVAL. REVIEWED TRUSS LAYOUT AND CALCULATIONS SHALL BE SUBMITTED TO AND APPROVED BY CITY PRIOR TO FABRICATION.

**STRUCTURAL OBSERVATIONS:**  
A. FOUNDATION REBAR REINFORCEMENT AND EMBEDDED SHEAR WALL ANCHORS  
B. SHEAR WALLS TYPES C, D, 2C AND 2D INCLUDING NAILING, MUDSILL ANCHORS AND HOLDDOWNS

- PLYWOOD SHEATHING: SHALL BE DFPA CDX OR EQUAL UNLESS OTHERWISE NOTED ON DRAWINGS; SOFTWOOD PLYWOOD USED. STRUCTURALLY SHALL CONFORM TO PRODUCT STANDARDS PS 1-83 AND SHALL BEAR THE DFPA GRADE - TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION. ROOF SHEATHING SHALL BE 1/2 INCHES THICK (32/16). FLOOR SHEATHING SHALL BE 3/4 INCHES THICK (48/24), TONGUE AND GROOVED AND SHALL BE GLUED AND NAILED. WALL SHEATHING SHALL BE A MIN. OF 3/8 INCHES THICK, U.N.D.
- LUMBER SHALL HAVE A MOISTURE CONTENT NOT EXCEEDING 19 PERCENT AT TIME OF CONSTRUCTION OR FABRICATION
- FRAMING CONTRACTOR SHALL PROTECT HIS WORK FROM ANY DAMAGES DUE TO WEATHER CONDITIONS AT TIME OF CONSTRUCTION.
- WOOD JOISTS SHALL BEAR ON THE FULL WIDTH OF SUPPORTING MEMBERS
- PARALLEL STRAND LUMBER (PSL) BEAMS:

ALL PARALLEL STRAND LUMBER BEAMS SHALL BE TRUSS JOIST MACMILLAN PARALLAM (PSL) SHALL COMPLY WITH NES REPORT NO. NER-481  
Fb = 2900 PSI Fc = 2900 PSI Fv = 290 PSI E = 2000 KSI  
ALL EXPOSED PSL BEAMS SHALL BE WOLMANIZED (OR EQUIVALENT FORM OF PRESSURE TREATMENT)

VERSALAM LAM:  
VERSALAM 3100 (CAN BE USED TO REPLACE PARALLAM PSL 2.0E)  
Fb = 3100 PSI Fc = 3100 PSI Fv = 285 PSI E = 2000 KSI

**NAIL SCHEDULE**

- WOOD MEMBERS SHALL BE CONNECTED WITH NAILING INDICATED IN 2019 CBC TABLE 2304.10.1 UNLESS GREATER SIZES AND NUMBER OF NAILS ARE SHOWN OR NOTED ON DRAWINGS; NAILS EXPOSED TO WEATHER SHALL BE GALVANIZED; NAILS SHALL BE COMMON WIRE NAILS; HOLES FOR NAILS SHALL BE PROVIDED WHERE THE WOOD MEMBERS TEND TO SPLIT; SPLIT WOOD MEMBERS SHALL BE REPLACED AND REMOVED FROM JOB PROMPTLY. SHORT PLYWOOD NAILS FOR EQUIVALENT SHEAR VALUE MAY BE USED. SEE PLANS FOR NAIL SPACING. ROOF SHEATHING 8d AT 6 INCHES O.C. AT SUPPORTED EDGES, 8d AT 12 INCHES O.C. INTERMEDIATE SUPPORTS, FLOOR SHEATHING 8d AT 6 INCHES O.C. AT BOUNDARIES AND PANEL EDGES AND 8d AT 10 INCHES O.C. AT INTERMEDIATE SUPPORTS. PLYWOOD WALL SHEATHING SHALL BE NAILED PER SHEAR WALL SCHEDULE AT SHEAR WALLS, AND AT A MINIMUM OF 8d AT 6 INCHES O.C. ALL OTHER EDGES.
- FOR PRESSURE TREATED LUMBER USE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.

**GPM ENGINEERS**  
3340 WALNUT AVE., SUITE 292  
FREMONT, CA 94538-2215  
TEL. (650) 331-7264 FAX (650) 472-9004  
MGENTY@GPMENGINEERS.COM  
CIVIL STRUCTURAL PLANNING DEVELOPMENT

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DRAWING HISTORY	DATE
REVISION	

**PROJECT**

**AT**

13685 SYCAMORE AVE.,  
SAN MARTIN, CA



2-18-2022

**GENERAL NOTES**

Drawn by: Drawing Number

EH

Checked by: S-1

MG

Project Number 22-225 SHEET 1 OF 10

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DRAWING HISTORY	DATE

**PROJECT**  
**MAIN RESIDENCE**  
**AT**  
 13685 SYCAMORE AVE.,  
 SAN MARTIN, CA



2-18-2022

**FOUNDATION AND FRAMING PLAN**

Drawn by: EH  
 Checked by: MG  
 Project Number: 22-225  
 Drawing Number: S2  
 SHEET 2 OF 10

**NEW FOUNDATION NOTES:**

- SPREAD FOOTINGS SHALL BE 16" WIDE UNLESS OTHERWISE NOTED ON PLAN
- FOOTINGS SHALL BE 24" BELOW ADJACENT GRADE (MINIMUM).
- ALL HOLD-DOWNS ANCHORS SHALL BE TIED IN PLACE PRIOR TO CALLING FOR A FOUNDATION INSPECTION.
- ALL WOOD IN CONTACT W/ CONCRETE OR EXPOSED WOOD SHALL BE P.T. USE ONLY HOT DIPPED GALVANIZED CONNECTORS, BOLTS AND FASTENERS.
- DBL FLR JOISTS AT PARTITIONS PARALLEL TO JOISTS AND 2X BK LGT AT WALLS PERPENDICULAR TO JOISTS
- FLOOR SHEATHING: 3/4" CDX T&G PLYWOOD  
 BOUNDARY = 10d @ 6" O.C.  
 NAILING: FIELD = 10d @ 10" O.C.  
 (STAGGER PANEL JOINTS, GLUE AND NAIL)  
 (USE 16d NAILING IF 1 1/8" PLY'D IS USED)

**FOOTING SCHEDULE**

FOOTING	DIMENSIONS (MINIMUM)			REBARS
	LENGTH	WIDTH	THICKNESS MIN. *	
F1.50	1'-6"	1'-6"	SEE DET.	2-#4 EA WAY BOTTOM
F2.00	2'-0"	2'-0"	SEE DET.	3-#4 EA WAY
F2.50	2'-6"	2'-6"	SEE DET.	3-#4 EA WAY
F3.00	3'-0"	3'-0"	SEE DET.	3-#4 EA WAY
F3.50	3'-6"	3'-6"	SEE DET.	4-#4 EA WAY
F4.00	4'-0"	4'-0"	SEE DET.	4-#4 EA WAY

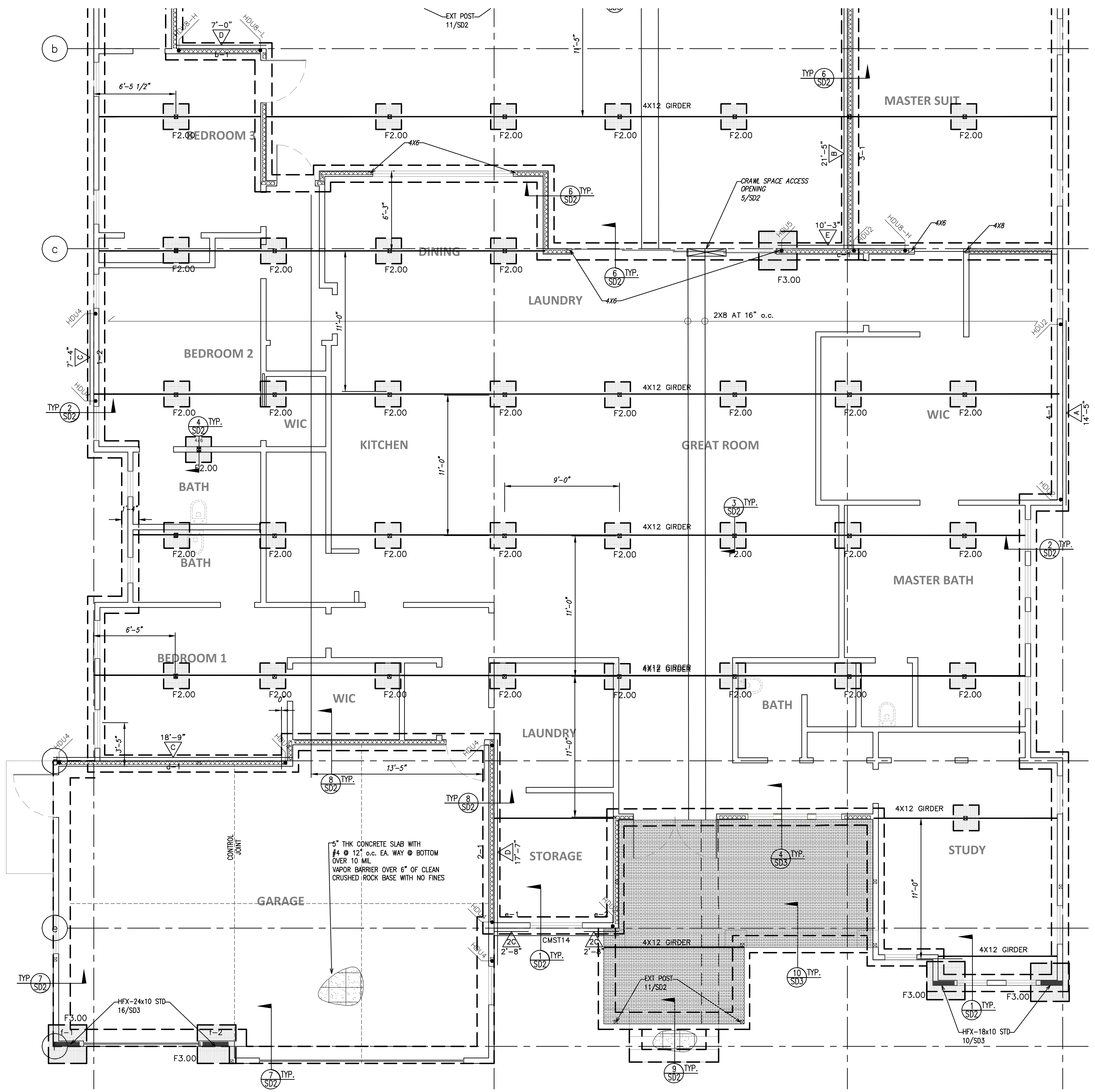
\* DEEPEN FOOTING AS REQUIRED AT HOLD-DOWN BOLTS

**WALL FRAMING NOTES**

- SEE SCHEDULE ON SHEET S1 FOR STUD SIZES AND SPACING BASED ON WALL HEIGHT AND LOCATION UNLESS OTHERWISE SHOWN ON PLAN
- USE BALLOON FRAMED WALLS AT:  
 A- VAULTED CEILINGS  
 B- BESIDE STAIR OPENINGS  
 C- BESIDE FLOOR OPENINGS ABUTTING EXTERIOR WALLS  
 D- WHEN CALLED ON PLANS
- SPLICE TOP PLATES BETWEEN NEW AND EXISTING TOP PLATES (WHERE OCCURS), AT CUTS FOR PLUMBING PIPES, AND LOCATIONS WHERE TOP PLATES ARE INTERRUPTED BY DROPPED BEAMS OR CONTINUOUS POSTS.

**FLOOD NOTES**

- BASE FLOOR ELEVATION IS 293.00 (SEE FLOOD CERTIFICATE). FINISH FLOOR SHALL BE MINIMUM 294.00
- ALL CONSTRUCTION BELOW 293.00 SHALL BE PT WOOD WITH HOT DIPPED GALVANIZED HARDWARE AND POSITIVE CONNECTION TO FOUNDATION
- PROVIDE FLOOD VENTS AS NEEDED PER FEMA REQUIREMENTS



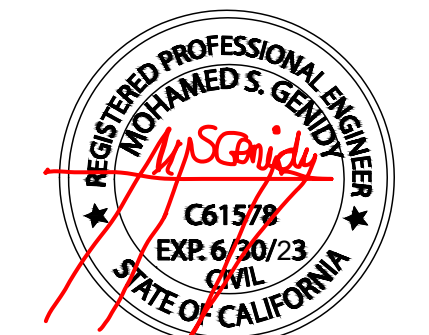
**A FOUNDATION PLAN**  
 SCALE: 1/4" = 1'-0"

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REVISION HISTORY	DATE

**PROJECT**  
**MAIN RESIDENCE**  
**AT**

13685 SYCAMORE AVE.,  
 SAN MARTIN, CA



2-18-2022

**FOUNDATION AND FRAMING PLAN**

**NEW FOUNDATION NOTES:**

- SPREAD FOOTINGS SHALL BE 12" WIDE UNLESS OTHERWISE NOTED ON PLAN
- FOOTINGS SHALL BE 18" BELOW ADJACENT GRADE (MINIMUM).
- ALL HOLD-DOWNS ANCHORS SHALL BE TIED IN PLACE PRIOR TO CALLING FOR A FOUNDATION INSPECTION.
- ALL WOOD IN CONTACT W/ CONCRETE OR EXPOSED WOOD SHALL BE P.T. USE ONLY HOT DIPPED GALVANIZED CONNECTORS, BOLTS AND FASTENERS.
- DBL FLR JOISTS AT PARTITIONS PARALLEL TO JOISTS AND 2X BLKG AT WALLS PERPENDICULAR TO JOISTS
- FLOOR SHEATHING: 3/4" CDX T&G PLYWOOD  
 NAILING: BOUNDARY = 10d @ 6" O.C.  
 FIELD = 10d @ 10" O.C.  
 (STAGGER PANEL JOINTS, GLUE AND NAIL)  
 (USE 16d NAILING IF 1 1/8" PLY'D IS USED)

**FOOTING SCHEDULE**

FOOTING	DIMENSIONS (MINIMUM)			REBARS
	LENGTH	WIDTH	THICKNESS MIN. *	
F1.50	1'-6"	1'-6"	SEE DET.	2-#4 EA WAY
F2.00	2'-0"	2'-0"	SEE DET.	3-#4 EA WAY
F2.50	2'-6"	2'-6"	SEE DET.	3-#4 EA WAY
F3.00	3'-0"	3'-0"	SEE DET.	3-#4 EA WAY
F3.50	3'-6"	3'-6"	SEE DET.	4-#4 EA WAY
F4.00	4'-0"	4'-0"	SEE DET.	4-#4 EA WAY

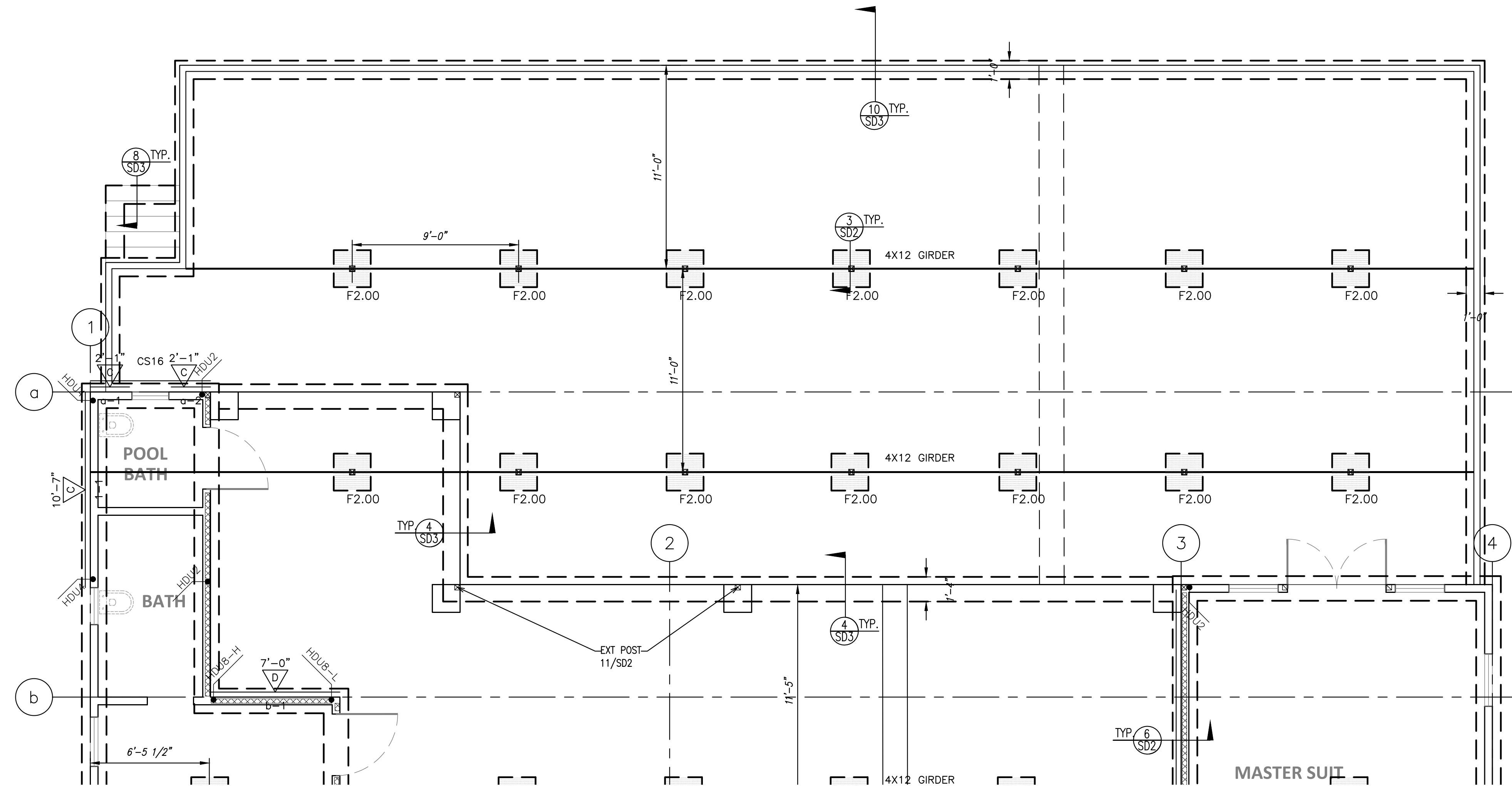
\* DEEPEN FOOTING AS REQUIRED AT HOLD-DOWN BOLTS

**WALL FRAMING NOTES**

- SEE SCHEDULE ON SHEET S1 FOR STUD SIZES AND SPACING BASED ON WALL HEIGHT AND LOCATION UNLESS OTHERWISE SHOWN ON PLAN
- USE BALLOON FRAMED WALLS AT:  
 A- VAULTED CEILINGS  
 B- BESIDE STAIR OPENINGS  
 C- BESIDE FLOOR OPENINGS ABUTTING EXTERIOR WALLS  
 D- WHEN CALLED ON PLANS
- SPLICE TOP PLATES BETWEEN NEW AND EXISTING TOP PLATES (WHERE OCCURS), AT CUTS FOR PLUMBING PIPES, AND LOCATIONS WHERE TOP PLATES ARE INTERRUPTED BY DROPPED BEAMS OR CONTINUOUS POSTS.

**FLOOD NOTES**

- BASE FLOOR ELEVATION IS 293.00 (SEE FLOOD CERTIFICATE). FINISH FLOOR SHALL BE MINIMUM 294.00
- ALL CONSTRUCTION BELOW 293.00 SHALL BE PT WOOD WITH HOT DIPPED GALVANIZED HARDWARE AND POSITIVE CONNECTION TO FOUNDATION
- PROVIDE FLOOD VENTS AS NEEDED PER FEMA REQUIREMENTS



**A FOUNDATION PLAN**  
 SCALE: 1/4" = 1'-0"

Drawn by: EH Drawing Number:

Checked by: MG

Project Number: 22-225

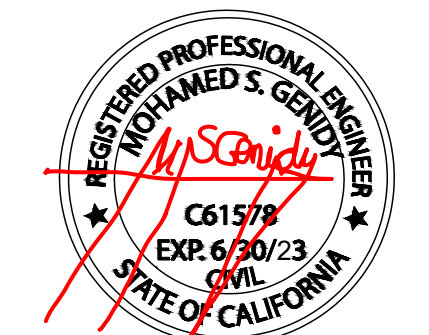
SHEET 3 OF 10

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DRAWING HISTORY	DATE

**PROJECT**  
**MAIN RESIDENCE**  
**AT**

13685 SYCAMORE AVE.,  
 SAN MARTIN, CA



2-18-2022

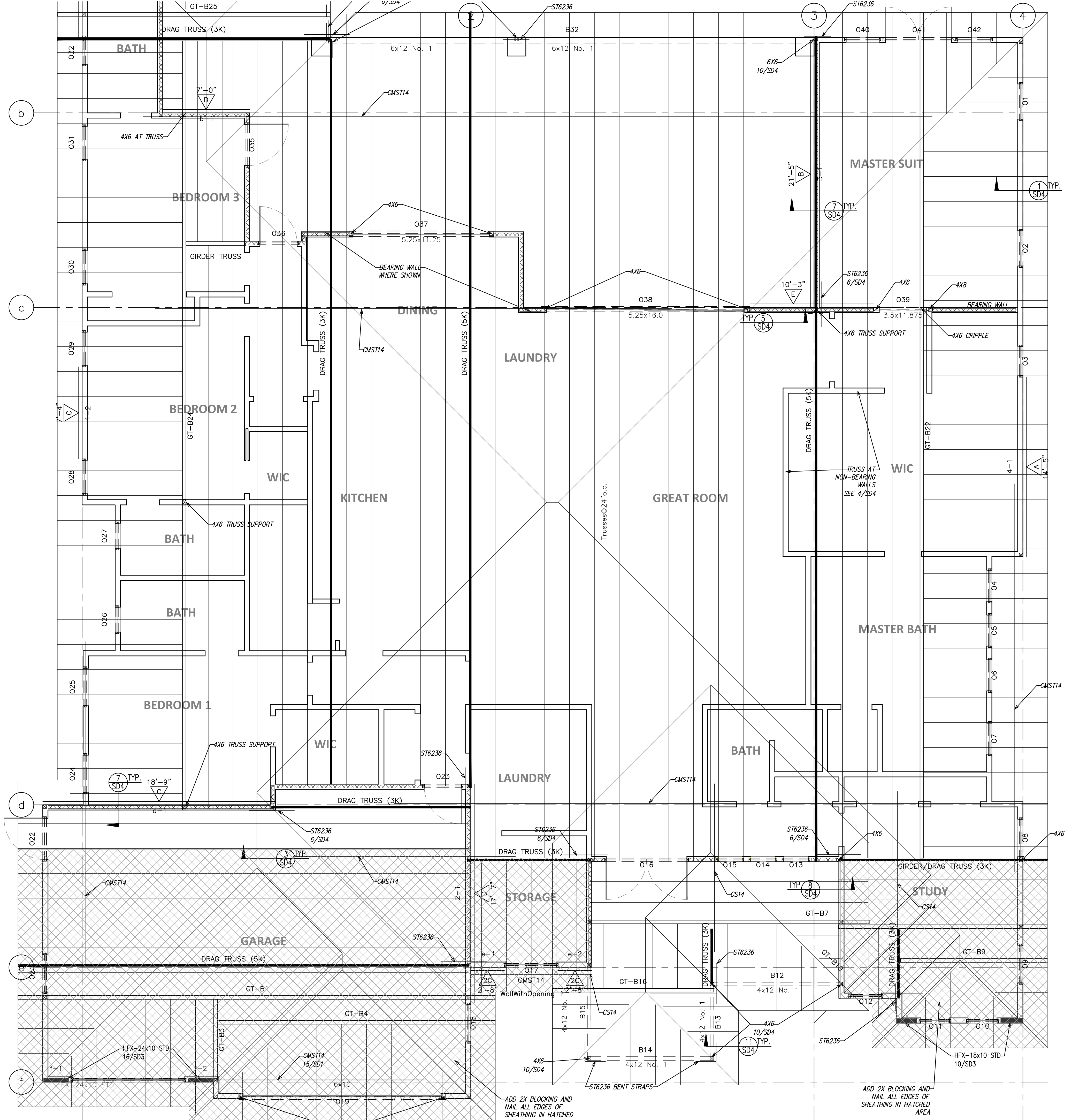
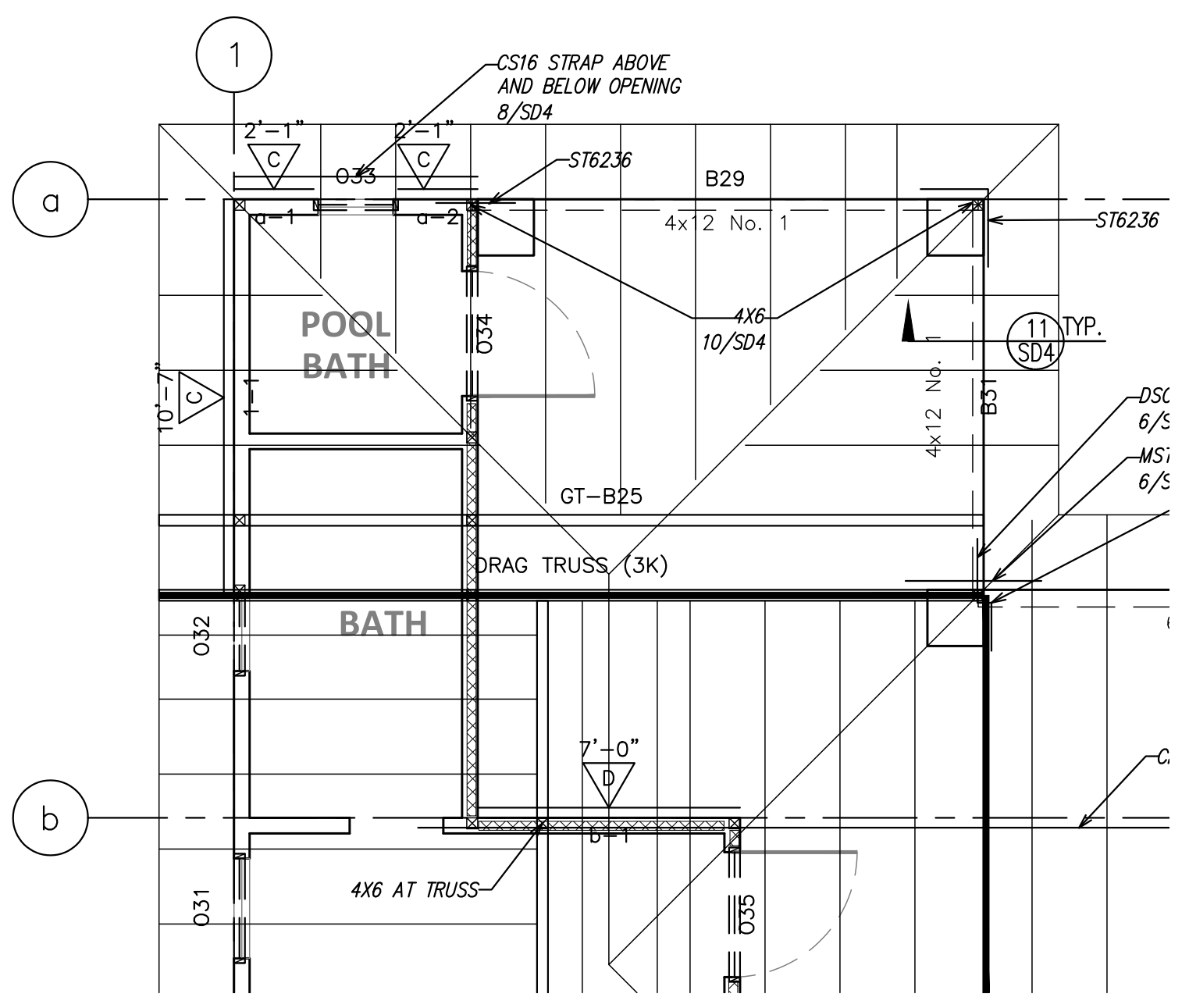
**FRAMING PLAN**

Drawn by: EH Drawing Number:

Checked by: MG

Project Number: 22-225

SHEET 3 OF 10



**ROOF FRAMING NOTES**

- ROOF SHEATHING: 1/2" CDX PLYWOOD  
 NAILING: BOUNDARY = 8d @ 6" O/C.  
 FIELD = 8d @ 12" O/C.  
 PANEL INDEX: 24/0
- ALL HEADERS SHALL BE 4 x 12 (OR 6x10) UNLESS OTHERWISE NOTED. ALL POSTS SHALL BE 4x4 (OR 4x6) U.O.N.
- USE ST6236 STRAP AT ALL BEAM TO TOP PLATE CONNECTION WHERE THE TOP PLATE IS DISCONTINUOUS.
- ALL BEAMS RESTING ON THE TOP PLATE SHALL BE ATTACHED TO THE TOP PLATE WITH ONE A35 FRAMING CLIP EACH SIDE.
- TRUSSES SHALL BE SPACED AT 24" O.C. TRUSS CALCULATIONS, FRAMING PLANS, AND SHOP DRAWINGS SHALL BE PREPARED BY THE MANUFACTURER AND SUBMITTED TO THE ENGINEER OF RECORD AND THE BUILDING DEPARTMENT FOR REVIEW BEFORE FABRICATION.
- INSTALL DOUBLE STUDS OR 4X POST AT ALL GIRDER TRUSSES U.O.N. ON PLANS
- POSTS SUPPORTING BEAMS, ROOF GIRDERS AND SHEAR WALL HOLDINGS TO BE EXTENDED DOWN TO THE FOUNDATIONS OR SUPPORTED BY FLOOR BEAMS.
- FOR TRUSSES WITH SPANS EXCEEDING 40FT:
  - ALIGN WALL STUDS AT EACH TRUSS SUPPORT POINT OFF USE DOUBLE 3X WALL TOP PLATES
  - PROVIDE BOTTOM CHORD CAMBER TO ACCOUNT FOR TOTAL LOAD DEFLECTION

**PREMANUFACTURED TRUSS LOADS**

TOP CHORD	
DL	16 PSF
LL	20 PSF
BOTTOM CHORD	
DL	6 PSF
LL*	10 PSF (NON-ATTIC)
LL	20 PSF (ATTIC)

**OTHER LOAD**  
 + USE ACTUAL EQUIPMENT LOADS WHERE APPLICABLE  
 + UNLESS OTHERWISE NOTED, USE ASCE7-16 MINIMUM LIVE LOADS  
 + UNLESS OTHERWISE NOTED, USE ACTUAL MATERIALS LOADS

\* NOT CONCURRENT W/ TOP CHORD LIVE LOAD

**DRAG TRUSSES**  
 DRAG/TIE TRUSSES SHALL BE DESIGNED FOR AXIAL LOAD OF 3000 UNLESS OTHERWISE NOTED

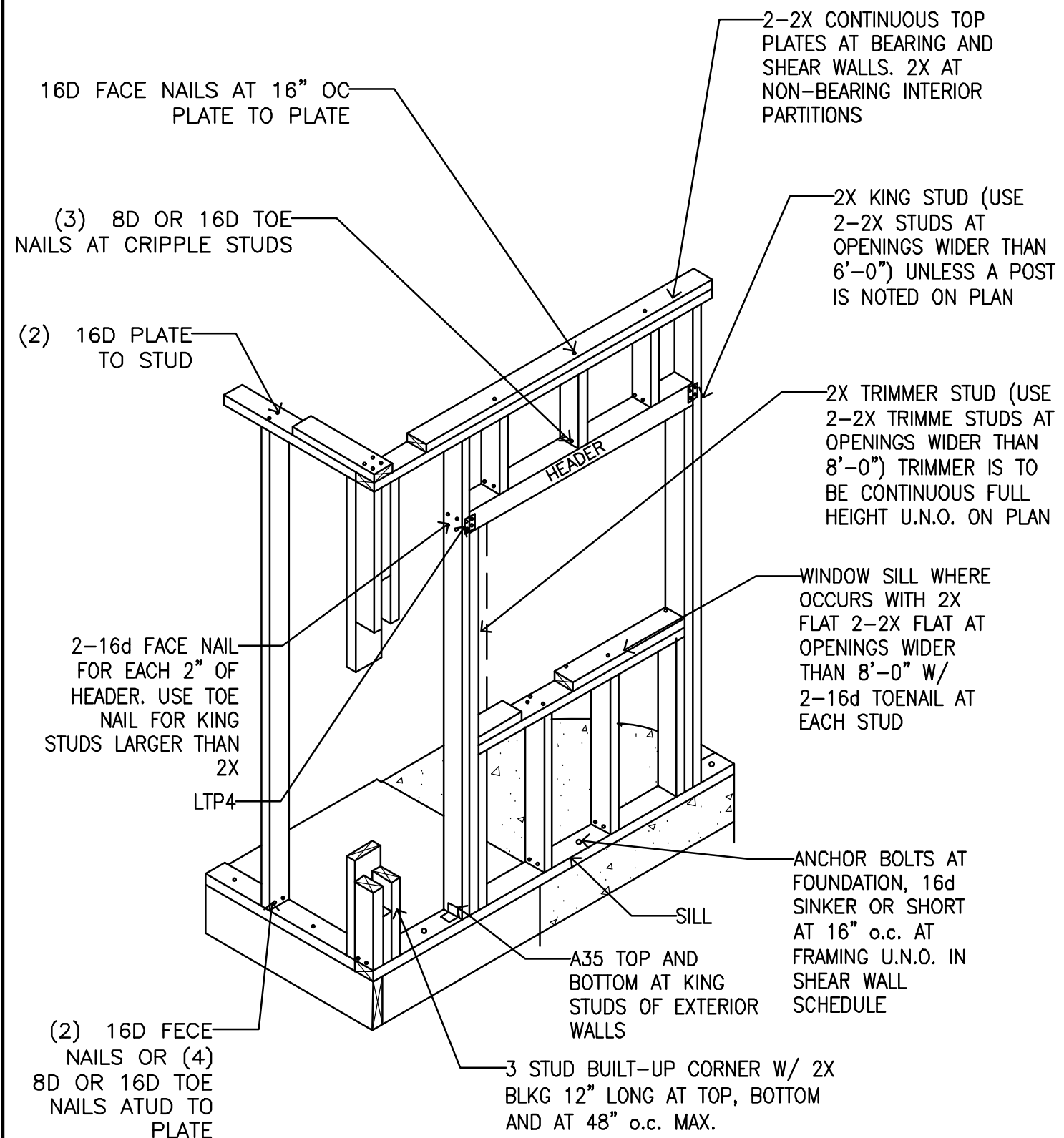
**TRUSS HANGER DESIGN**  
 TRUSS LAYOUT SHALL INCLUDE TRUSS TO TRUSS AND TRUSS TO BEAM HANGER SCHEDULE

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

ADD 2X BLOCKING AND NAIL ALL EDGES OF SHEATHING IN HATCHED AREA

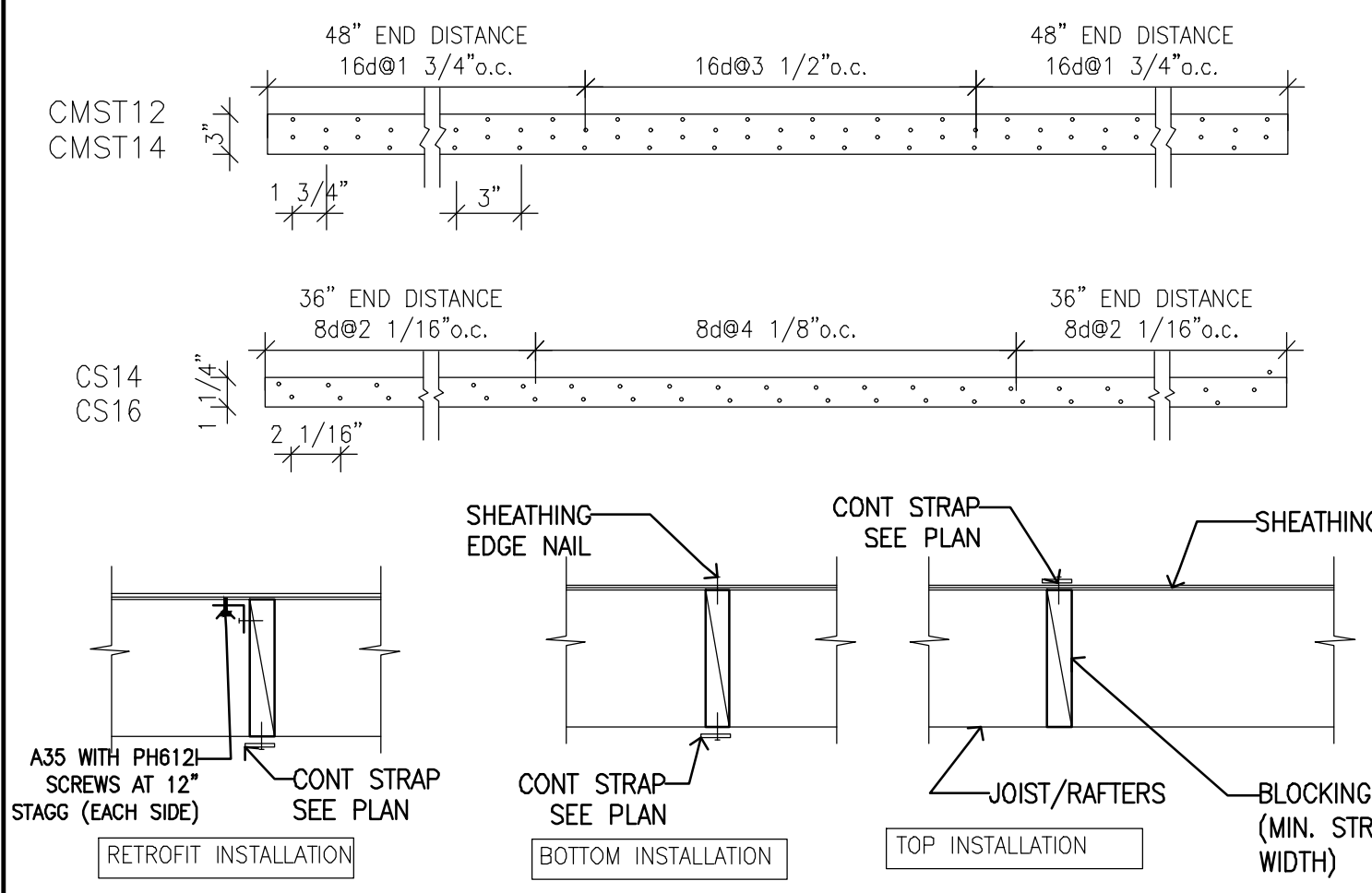
ADD 2X BLOCKING AND NAIL ALL EDGES OF SHEATHING IN HATCHED AREA

NOTE: WHERE NOT SPECIFICALLY  
1. WHERE NOT SPECIFICALLY DETAILED OR NOTED  
ELSEWHERE AND OTHERWISE, THE STRUCTURE SHALL  
BE FRAMED AS SHOWN HERE.  
2. 16d NAILS SHALL BE SINKER, SHORT OR COMMON,  
8d NAILS SHALL BE COMMON.  
3. SPLIT TRIMMERS MAY NOT BE USED.



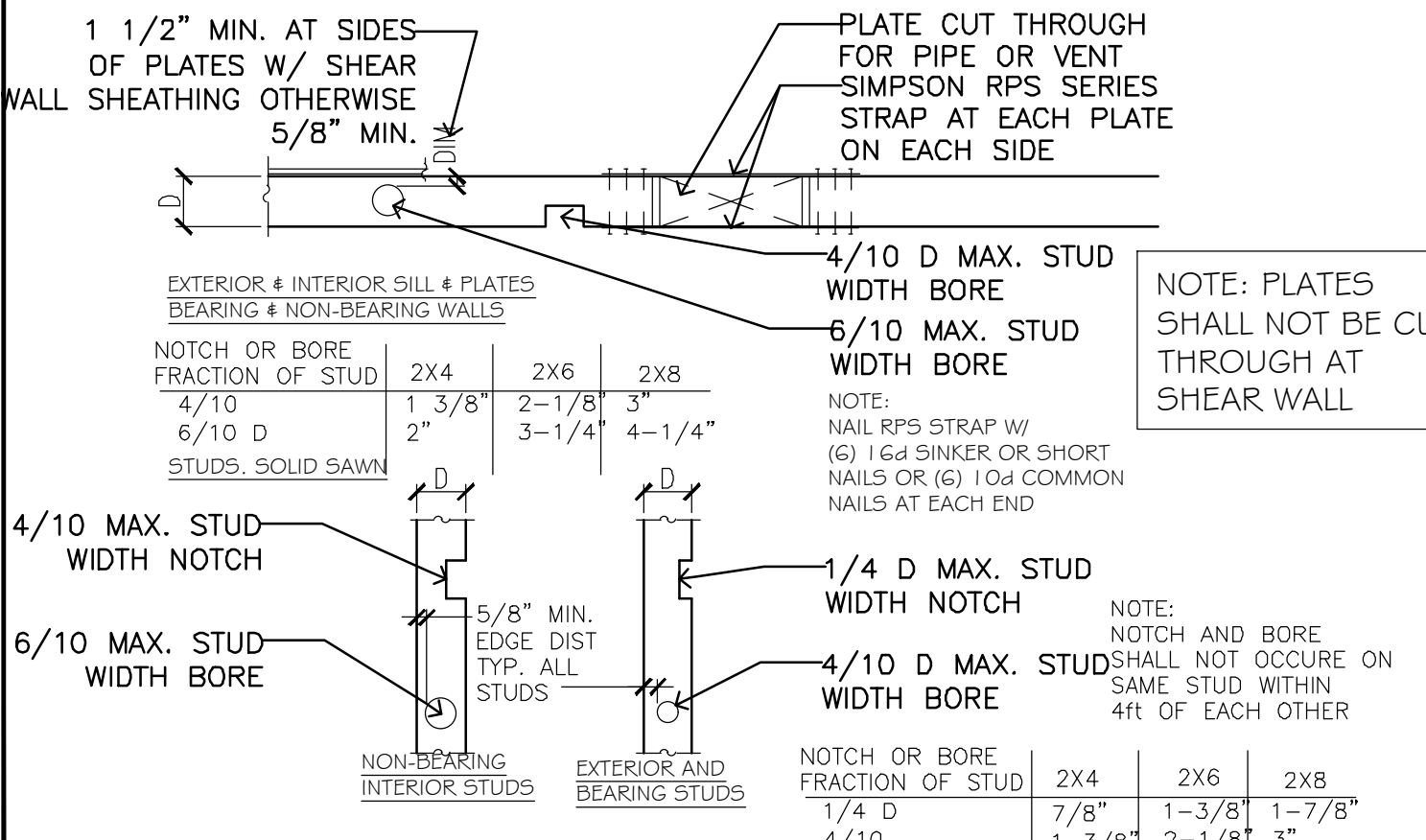
**TYPICAL WALL FRAMING**  
N.T.S.

14



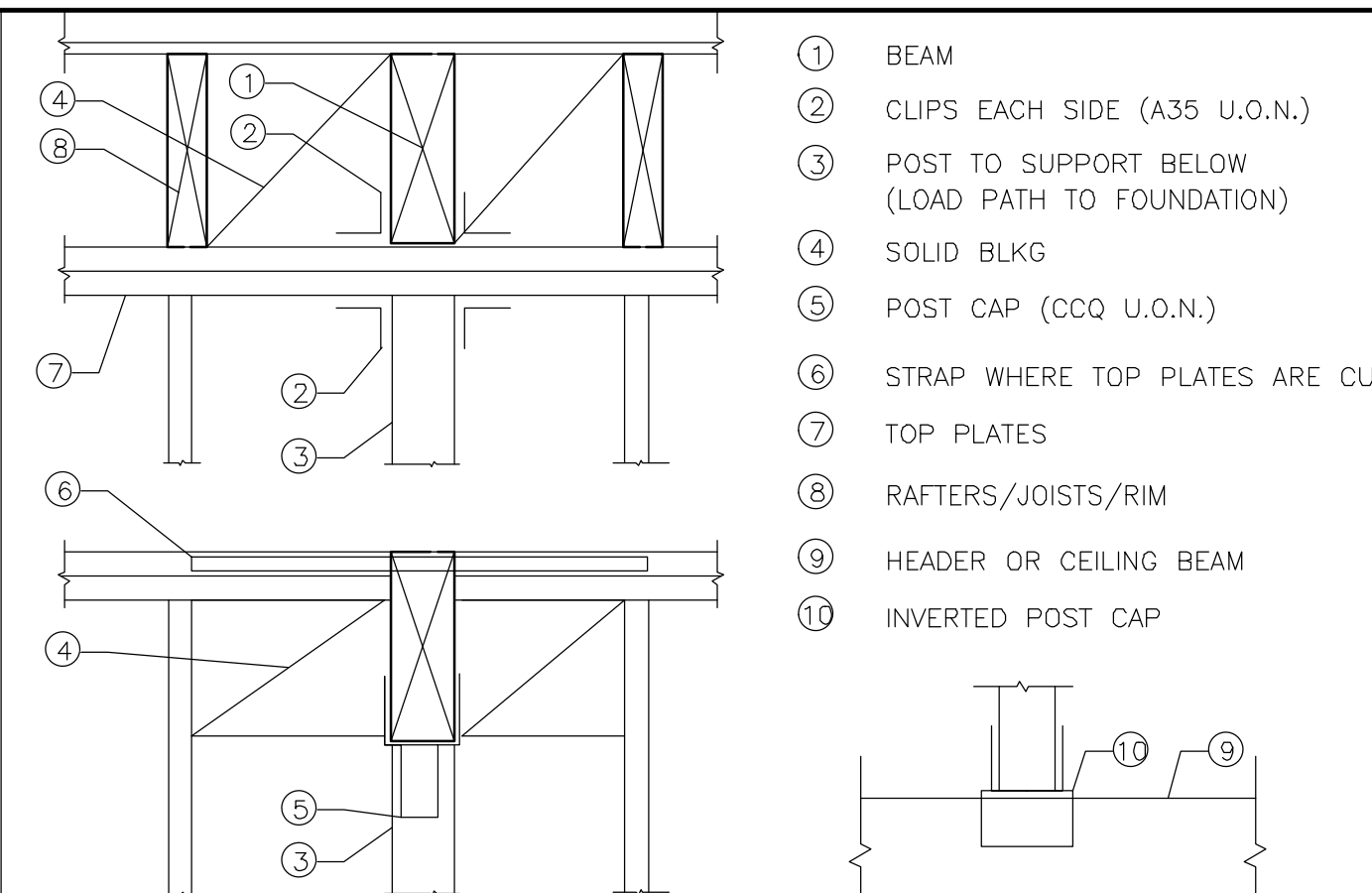
**DRAG TIE STRAP**  
N.T.S.

15



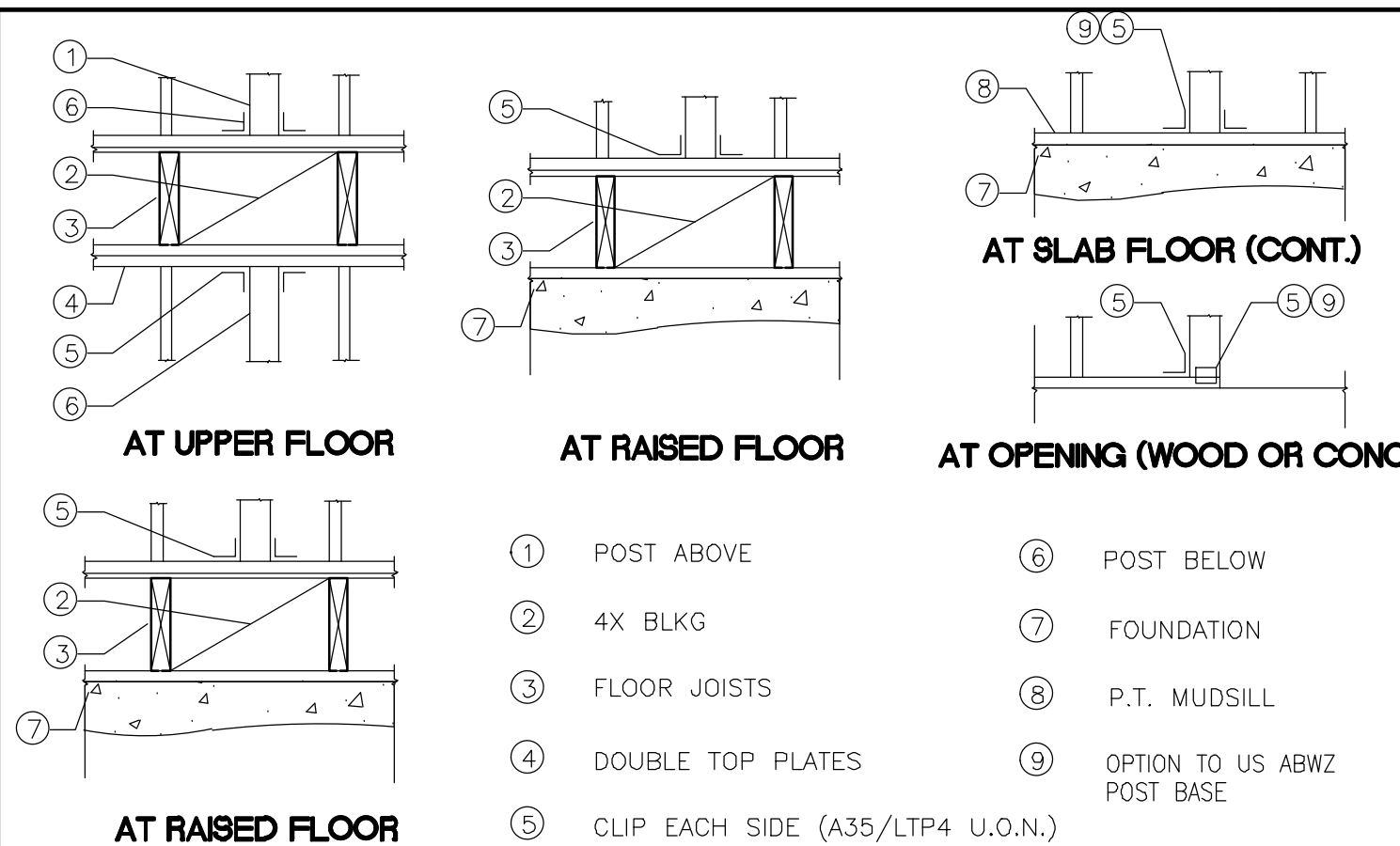
**STUD CUTS**  
N.T.S.

16



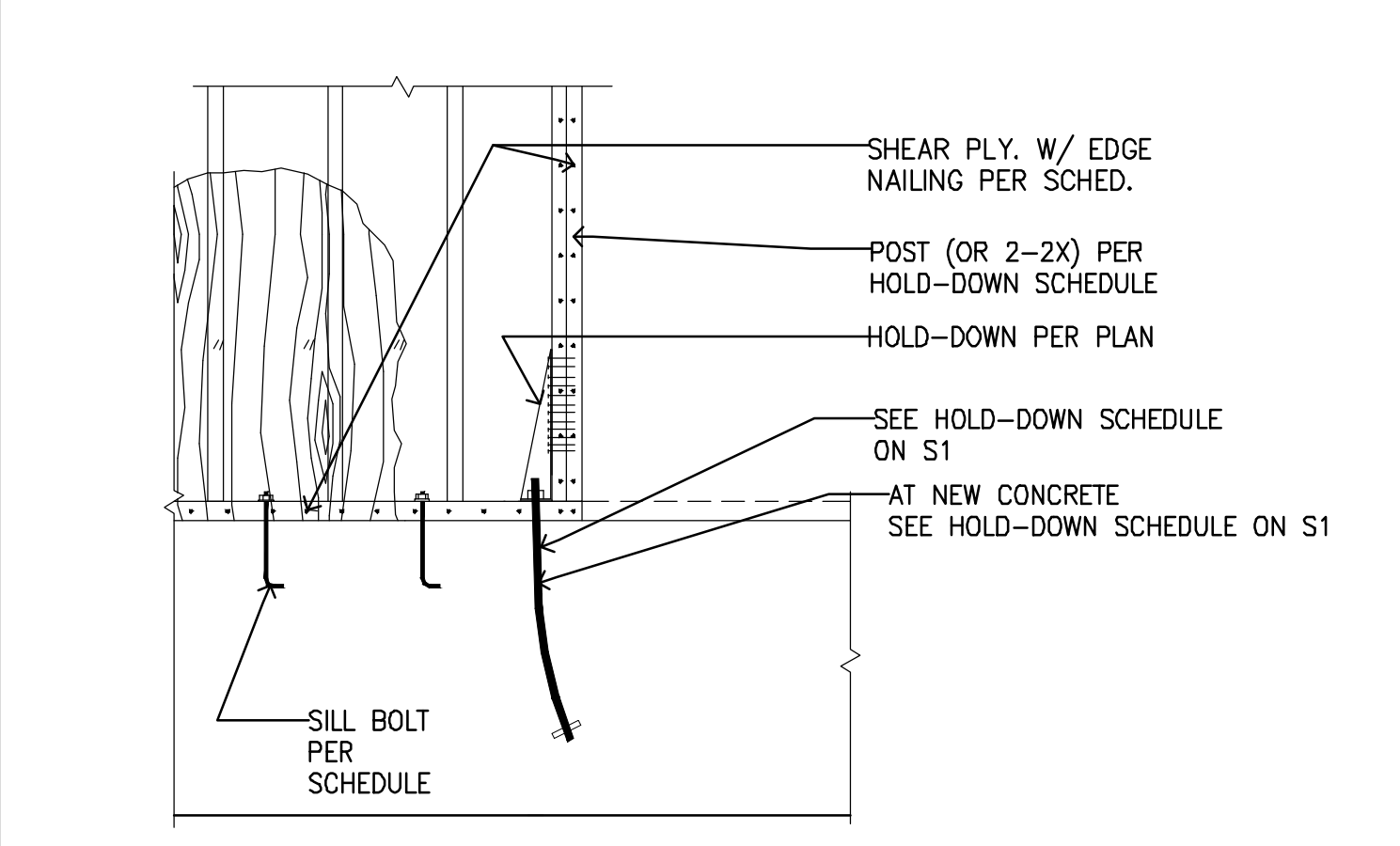
**BEAM SUPPORT AT WALL POST / HDR**  
N.T.S.

9



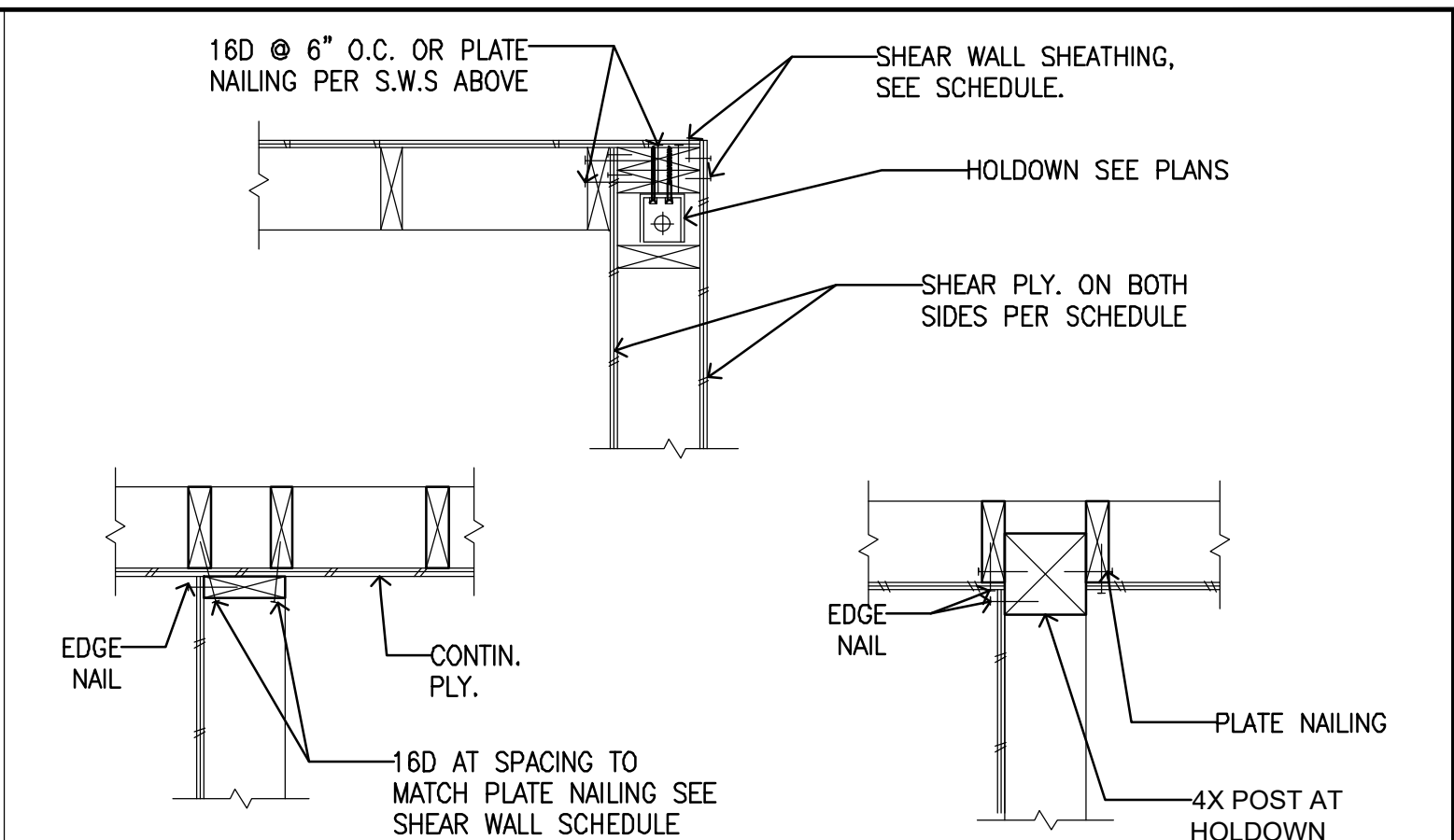
**WALL POST SUPPORT AT BASE**  
N.T.S.

5



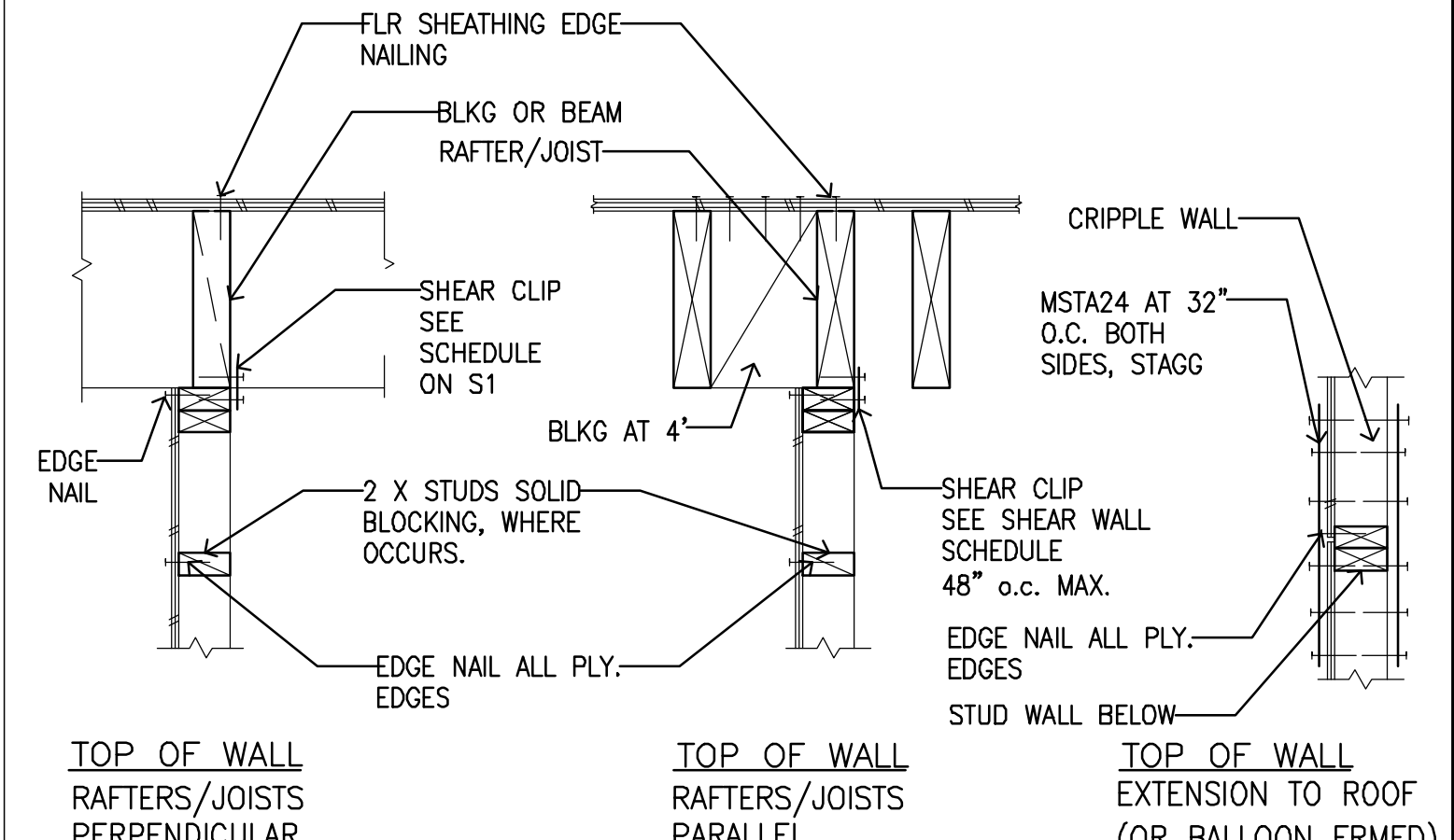
**HOLDOWN AT FOUNDATION**  
N.T.S.

6



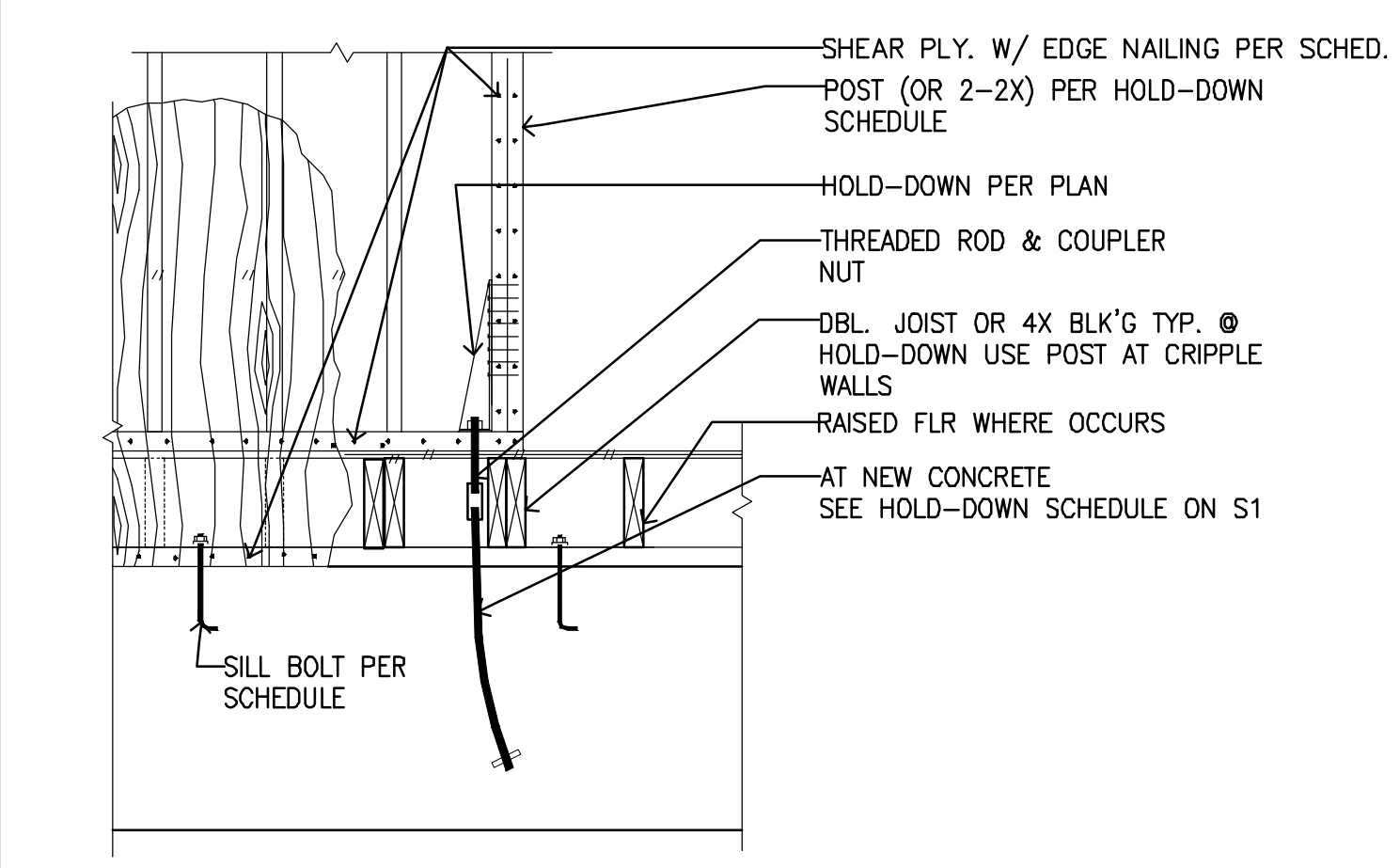
**SHEAR WALL CORNER DETAIL**  
N.T.S.

1



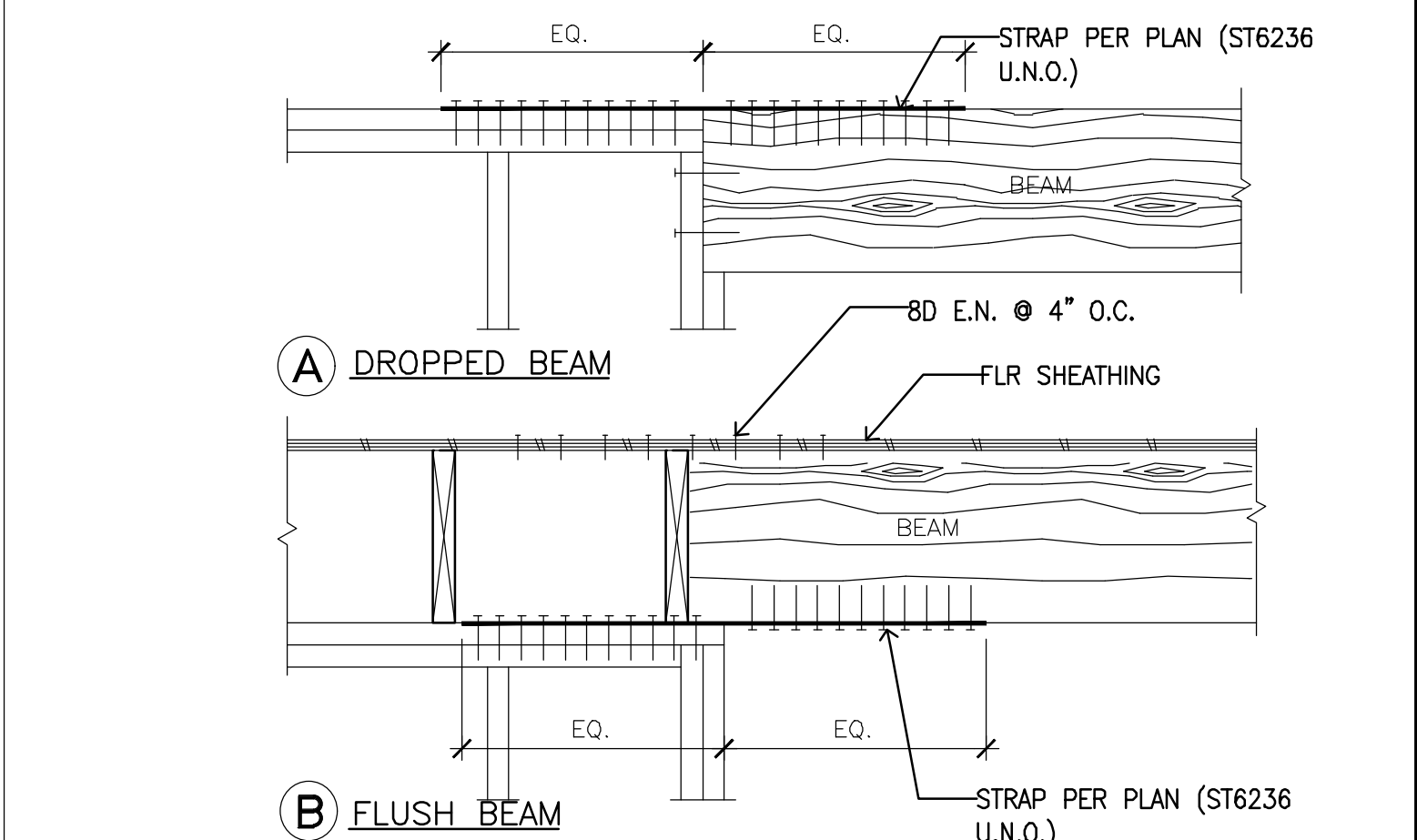
**INTERIOR SHEAR WALLS AT FLOOR/ROOF**  
N.T.S.

2



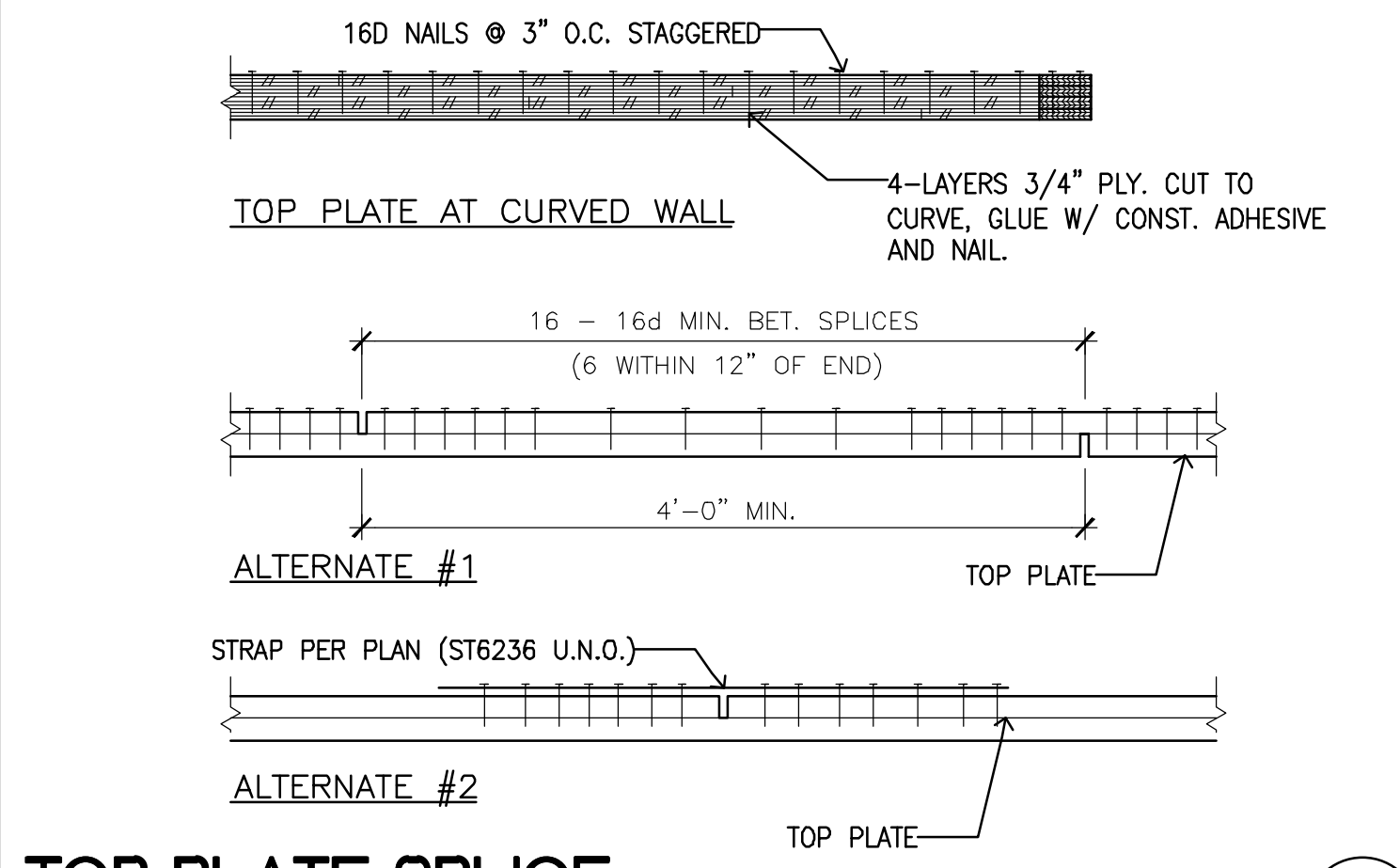
**HOLDOWN AT FOUNDATION**  
N.T.S.

7



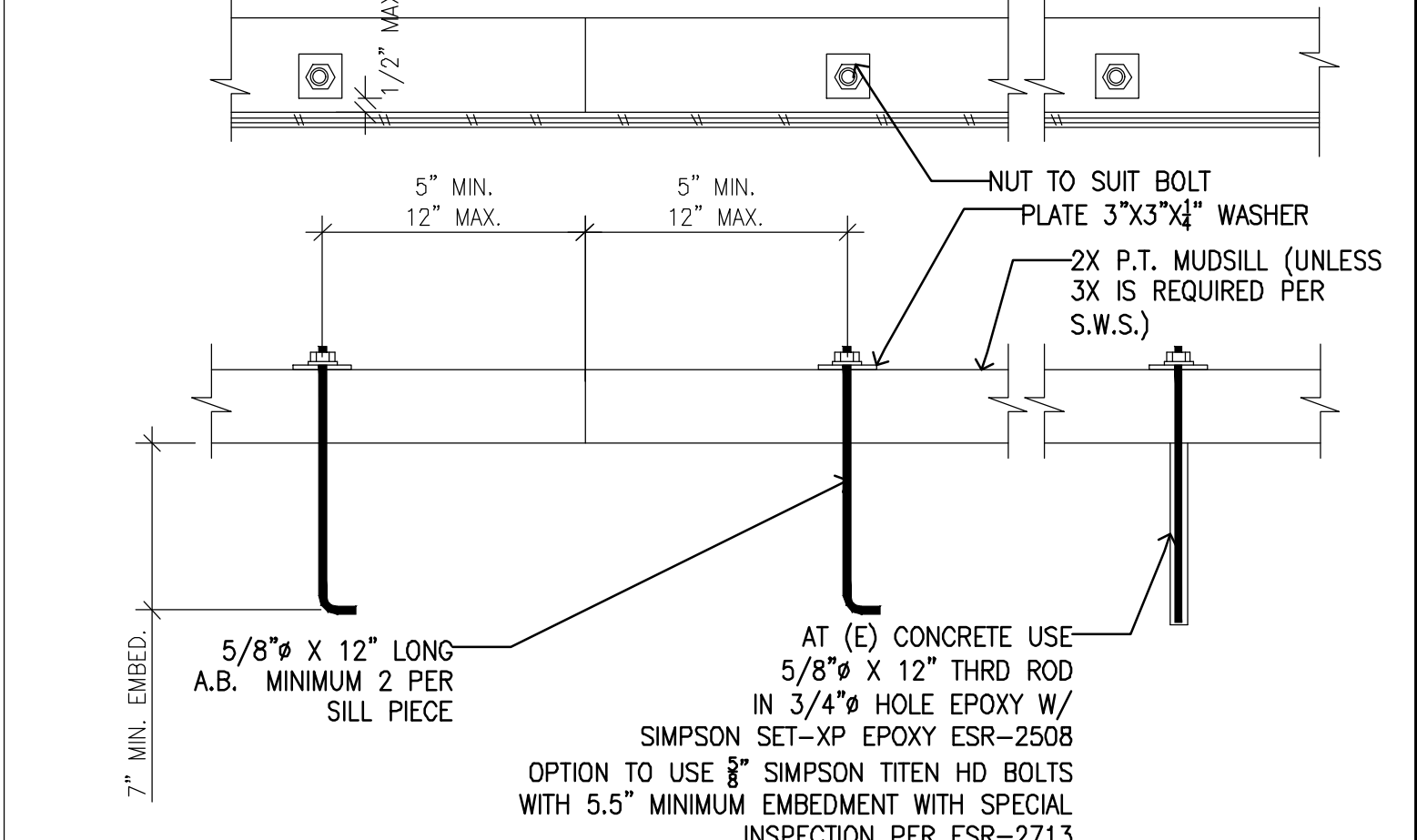
**BEAM AT SHEAR WALL**  
N.T.S.

3



**TOP PLATE SPLICE**  
N.T.S.

8



**ANCHOR BOLTS & SILL PLATE**  
N.T.S.

4

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REVISION HISTORY	DATE

**PROJECT**

AT

13685 SYCAMORE AVE.,  
SAN MARTIN, CA



2-18-2022

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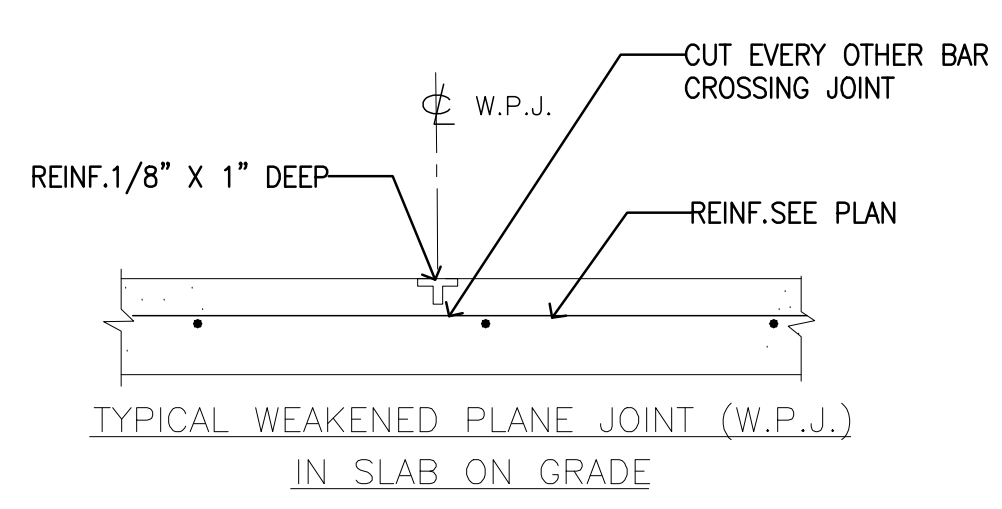
**PROJECT**  
  
**AT**  
  
 13685 SYCAMORE AVE.,  
 SAN MARTIN, CA



2-18-2022

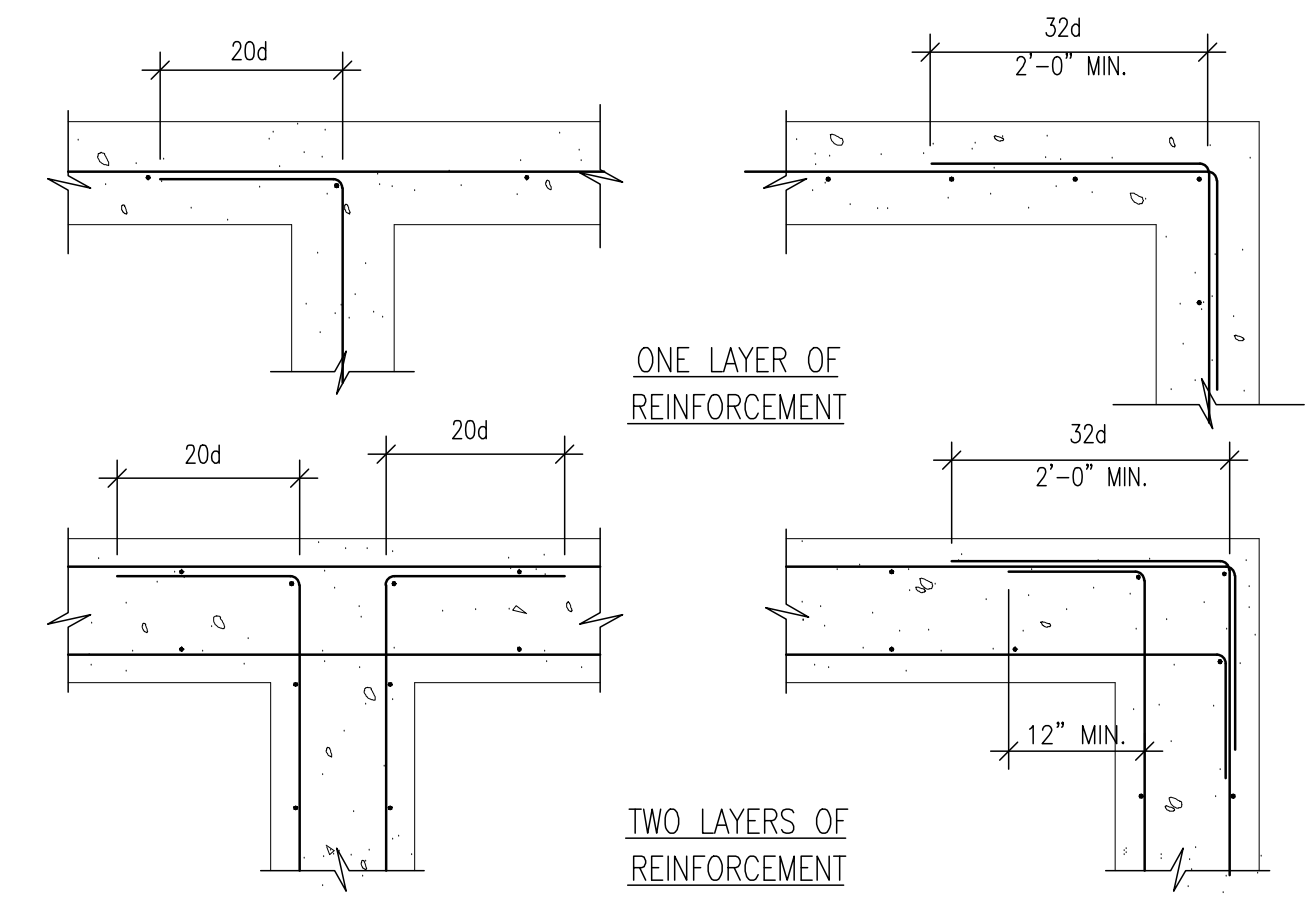
**STRUCTURAL DETAILS**

Drawn by: EH Drawing Number: **SD2**  
 Checked by: MG  
 Project Number: 22-225 SHEET 8 OF 10



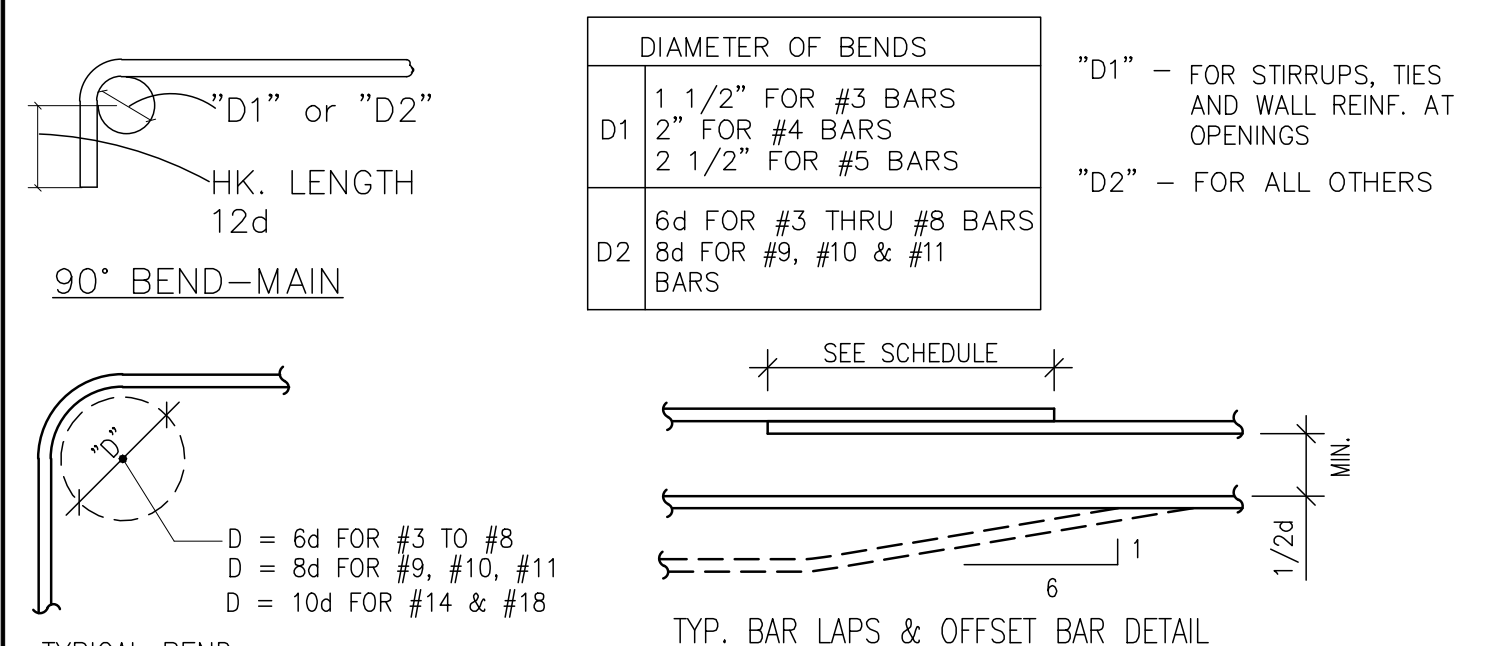
**JOINTS IN CONCRETE**

13  
N.T.S.



**TYPICAL LAP SPLICES - CONC.**

14  
N.T.S.

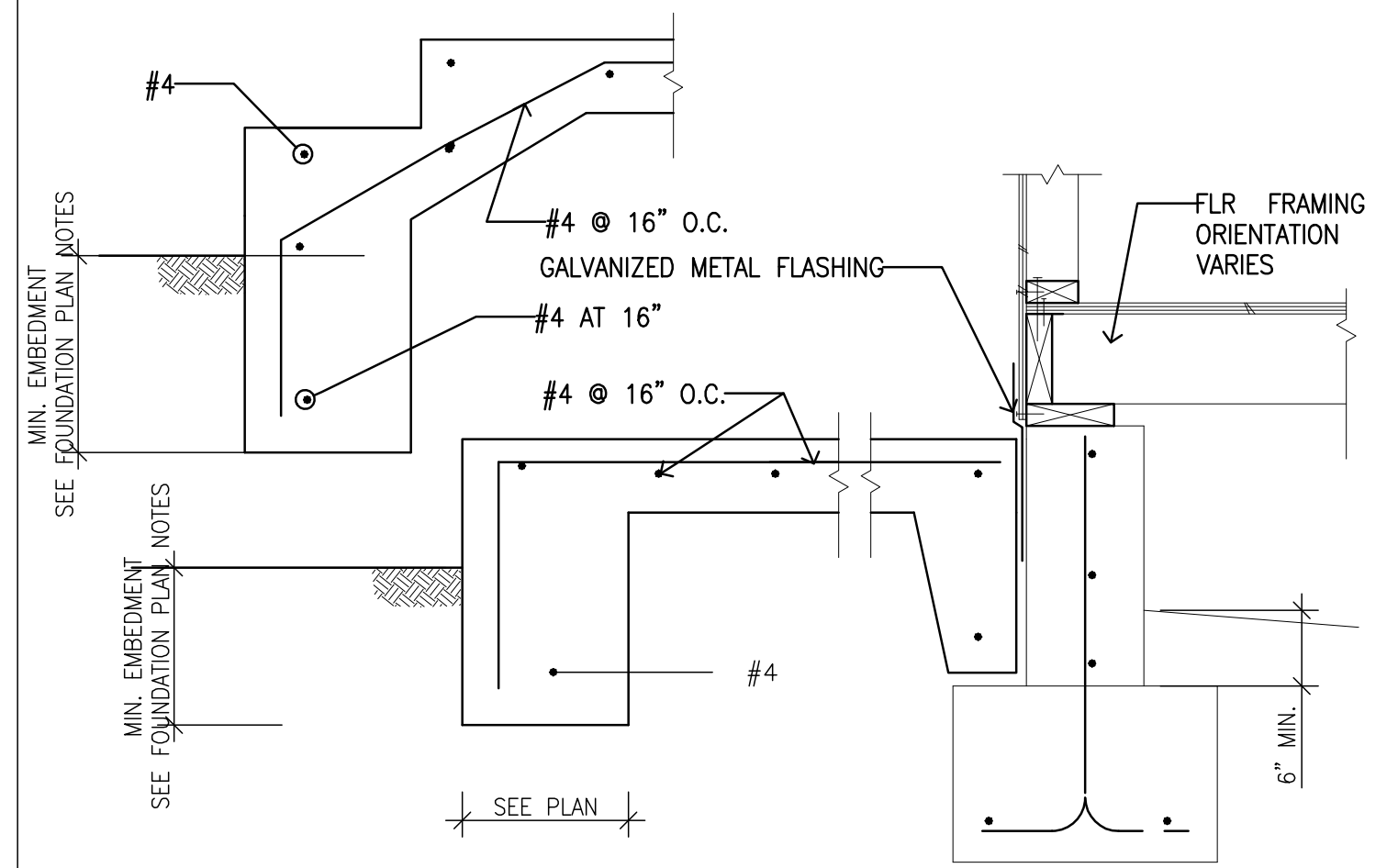


CONCRETE STRENGTH	CLASS OF LAP SPLICE	F'c = 2500 & 3000 PSI				F'c = 4000 PSI			
		CLASS "A"	CLASS "B"	CLASS "A"	CLASS "B"	CLASS "A"	CLASS "B"	CLASS "A"	CLASS "B"
#3	BAR CASE SIZE	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#4	1'-10"	1'-5"	2'-4"	1'-10"	1'-7"	1'-3"	2'-0"	1'-7"	1'-7"
#5	2'-5"	1'-10"	3'-1"	2'-5"	2'-1"	1'-7"	2'-8"	2'-1"	2'-1"
#6	3'-0"	2'-4"	3'-11"	3'-0"	2'-7"	2'-0"	3'-4"	2'-7"	2'-7"
#7	3'-7"	2'-9"	4'-8"	3'-7"	3'-1"	2'-5"	4'-0"	3'-1"	3'-1"
#8	5'-3"	4'-0"	6'-9"	5'-2"	4'-8"	3'-6"	5'-11"	4'-6"	4'-6"
#9	6'-0"	4'-7"	7'-9"	5'-11"	5'-2"	4'-0"	6'-9"	5'-2"	5'-2"
#9	6'-9"	5'-2"	8'-9"	6'-9"	5'-10"	4'-6"	7'-7"	5'-10"	5'-10"

- NOTES:**
- UNLESS INDICATED OTHERWISE, USE THE CLASS "B" LAP SPLICE LENGTHS, MULTIPLIED BY THE APPLICABLE FACTOR(S) LISTED BELOW.
  - WHERE CLEAR SPACE BETWEEN BARS LAP SPliced AT ANY SECTION IS LESS THAN 2 BAR DIAMETERS, OR WHERE THE BAR COVER IS LESS THAN OR EQUAL TO THE BAR DIAMETER, INCREASE THE LAP LENGTH BY 50%.
  - A CLASS "A" SPLICE MAY BE USED ONLY WHERE NOTED ON THE DRAWINGS.
  - WHERE LIGHTWEIGHT AGGREGATE CONCRETE IS USED, INCREASE LAP SPLICE LENGTH BY 30%.
  - TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
  - SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS SHALL BE STAGGERED.
  - SPLICES IN WALLS CONTAINING TWO CURTAINS OF REINFORCEMENT SHALL NOT OCCUR IN THE SAME LOCATION.
  - IN SHOTCRETE WALLS SPLICES IN REINFORCING BARS SHALL BE BY THE NON-CONTACT LAP SPLICE METHOD WITH AT LEAST 2 INCHES CLEARANCE BETWEEN BARS. THE BUILDING OFFICIAL MAY PERMIT THE USE OF CONTACT LAP SPLICES WHEN NECESSARY FOR THE SUPPORT OF THE REINFORCING PROVIDED IT CAN BE DEMONSTRATED BY MEANS OF PRE-CONSTRUCTION TESTING, THAT ADEQUATE ENCASEMENT OF THE BARS AT THE SPLICE CAN BE ACHIEVED, AND PROVIDED THAT THE SPLICES ARE PLACED SO THAT A LINE THROUGH THE CENTER OF THE TWO SPLICED BARS IS PERPENDICULAR TO THE SURFACE OF THE SHOTCRETE WORK.

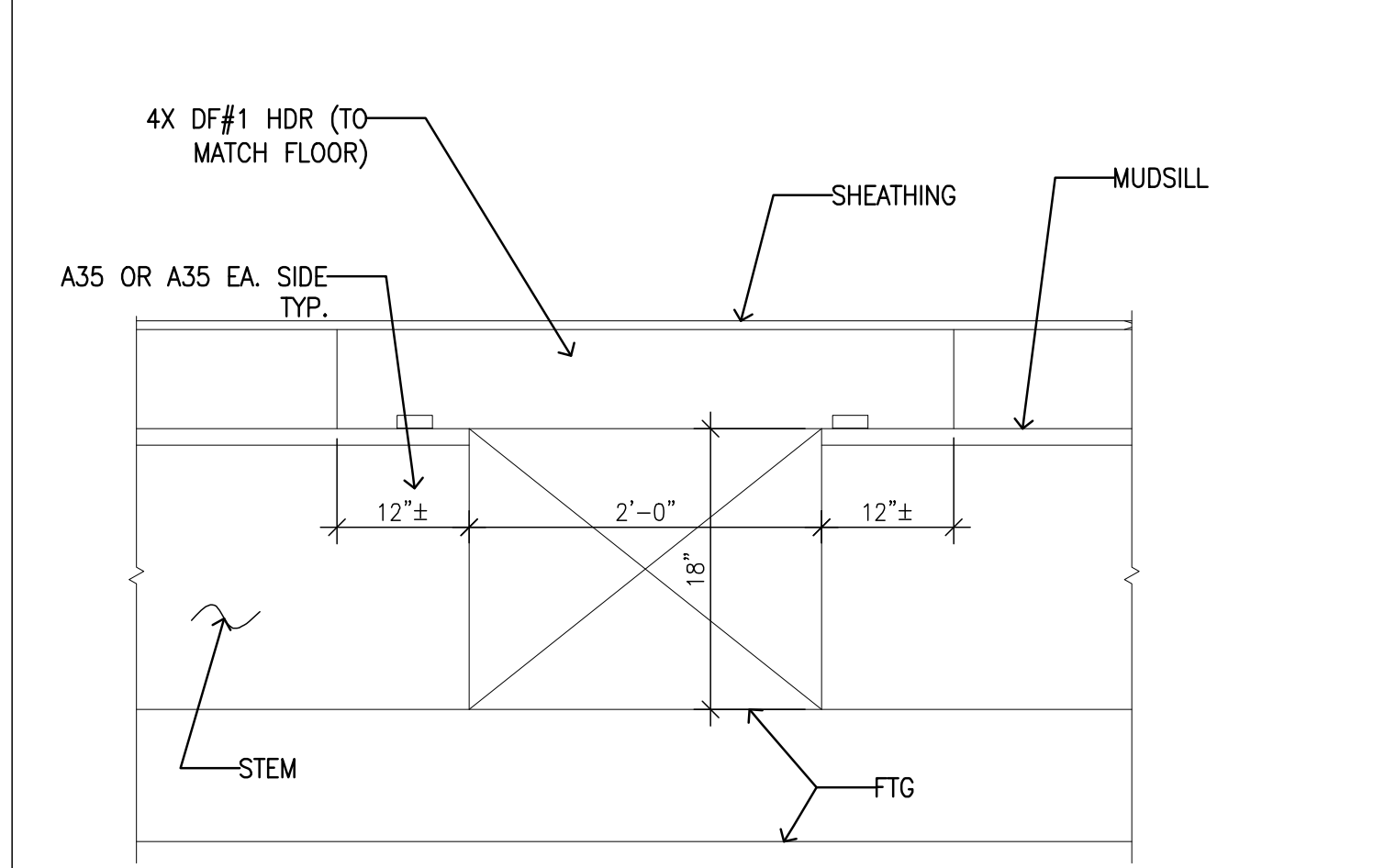
**REBAR OFFSET AND LAP SPLICE**

16  
N.T.S.



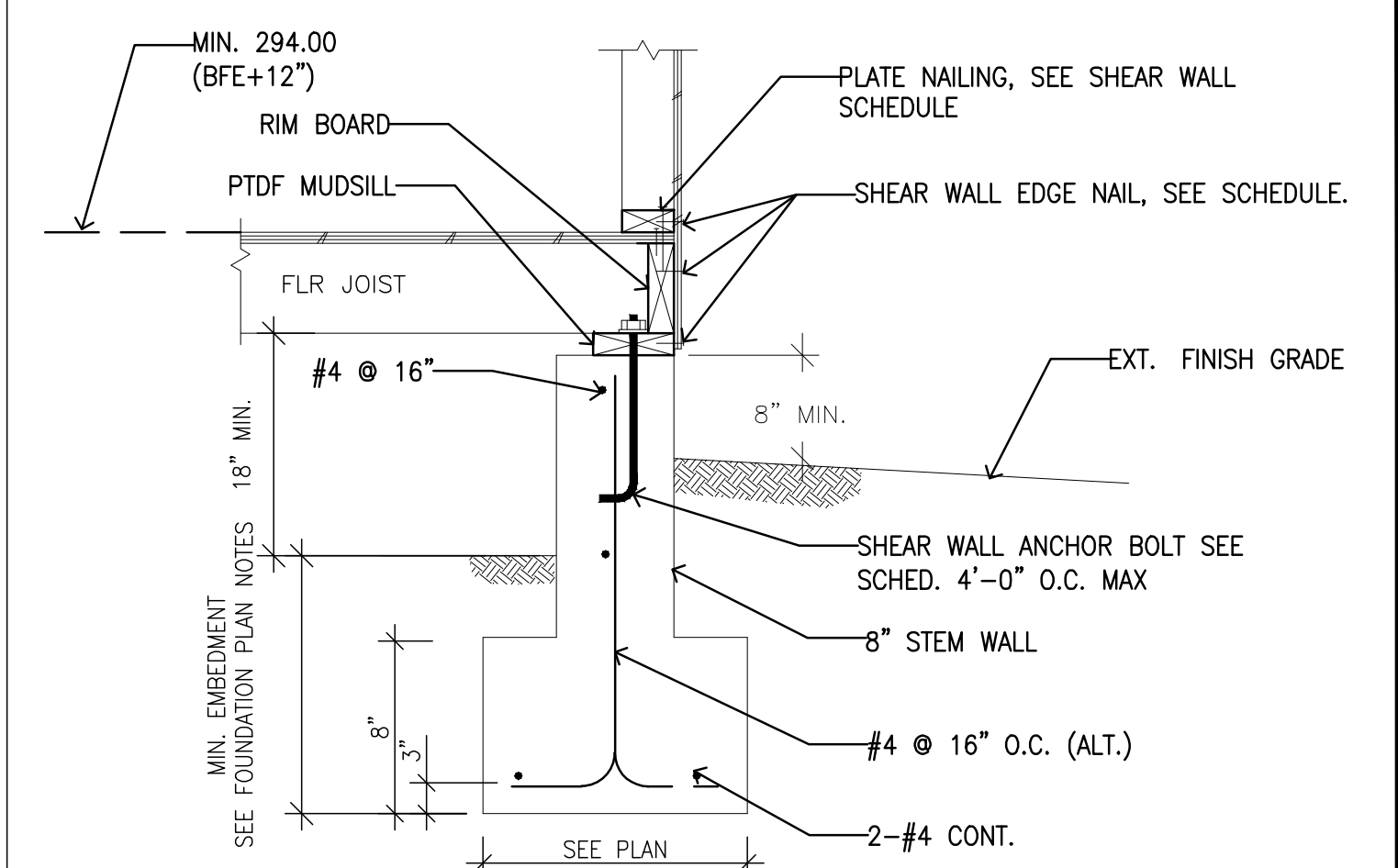
**EXTERIOR STEPS + FOOTING + ENTRY**

9  
N.T.S.



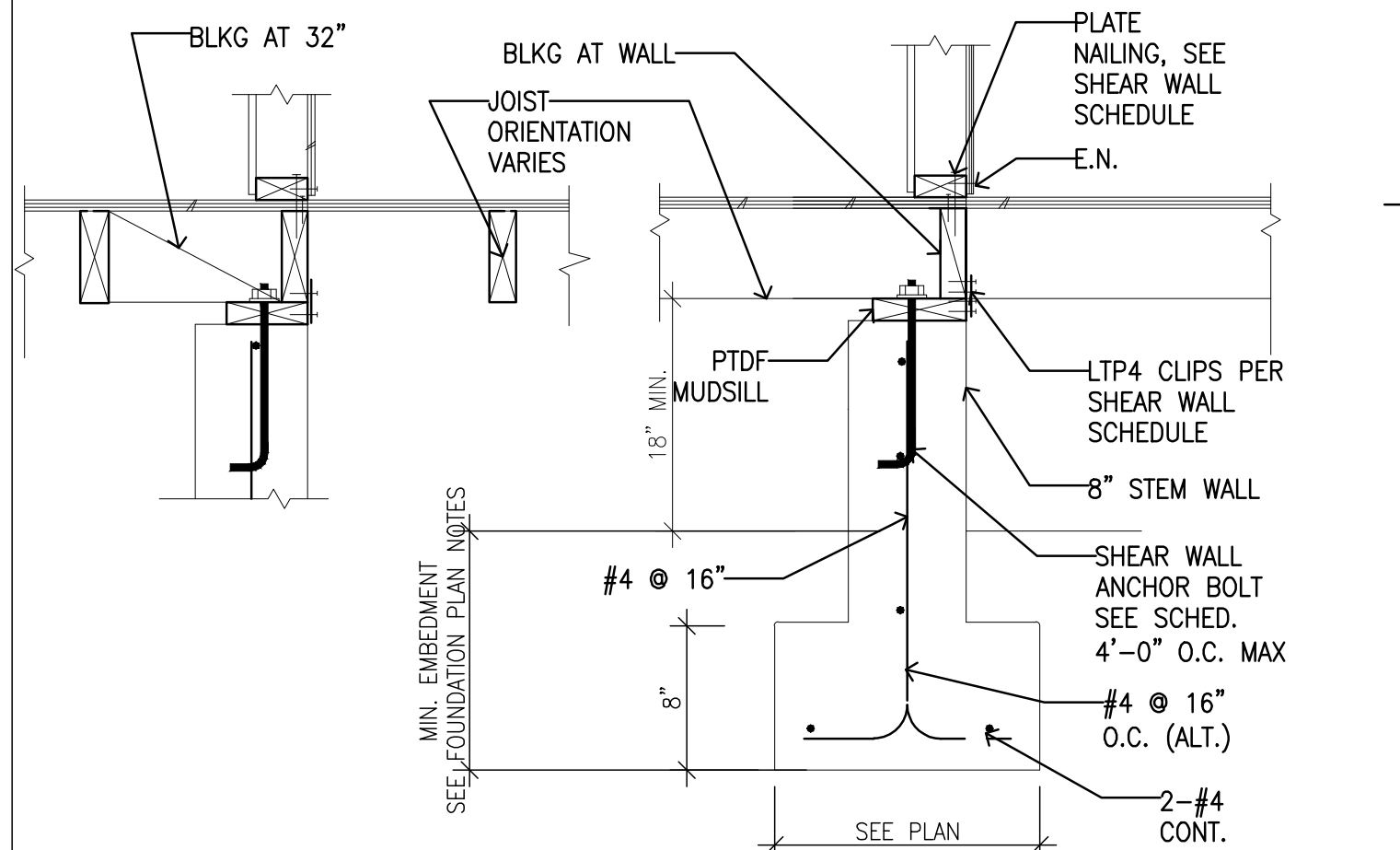
**ACCESS OPENING IN STEM WALL**

5  
N.T.S.



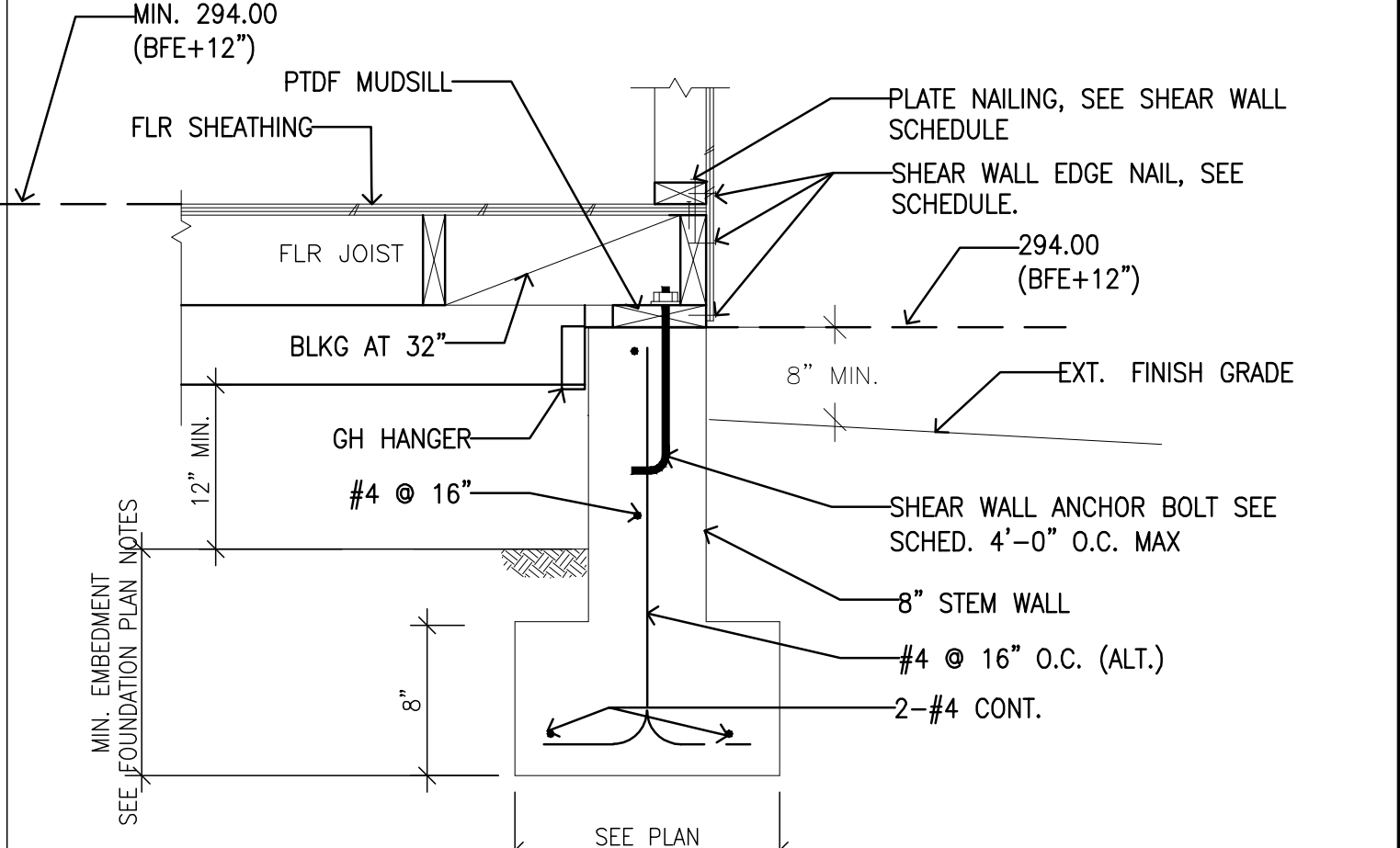
**FLOOR AT FOOTING**

1  
N.T.S.



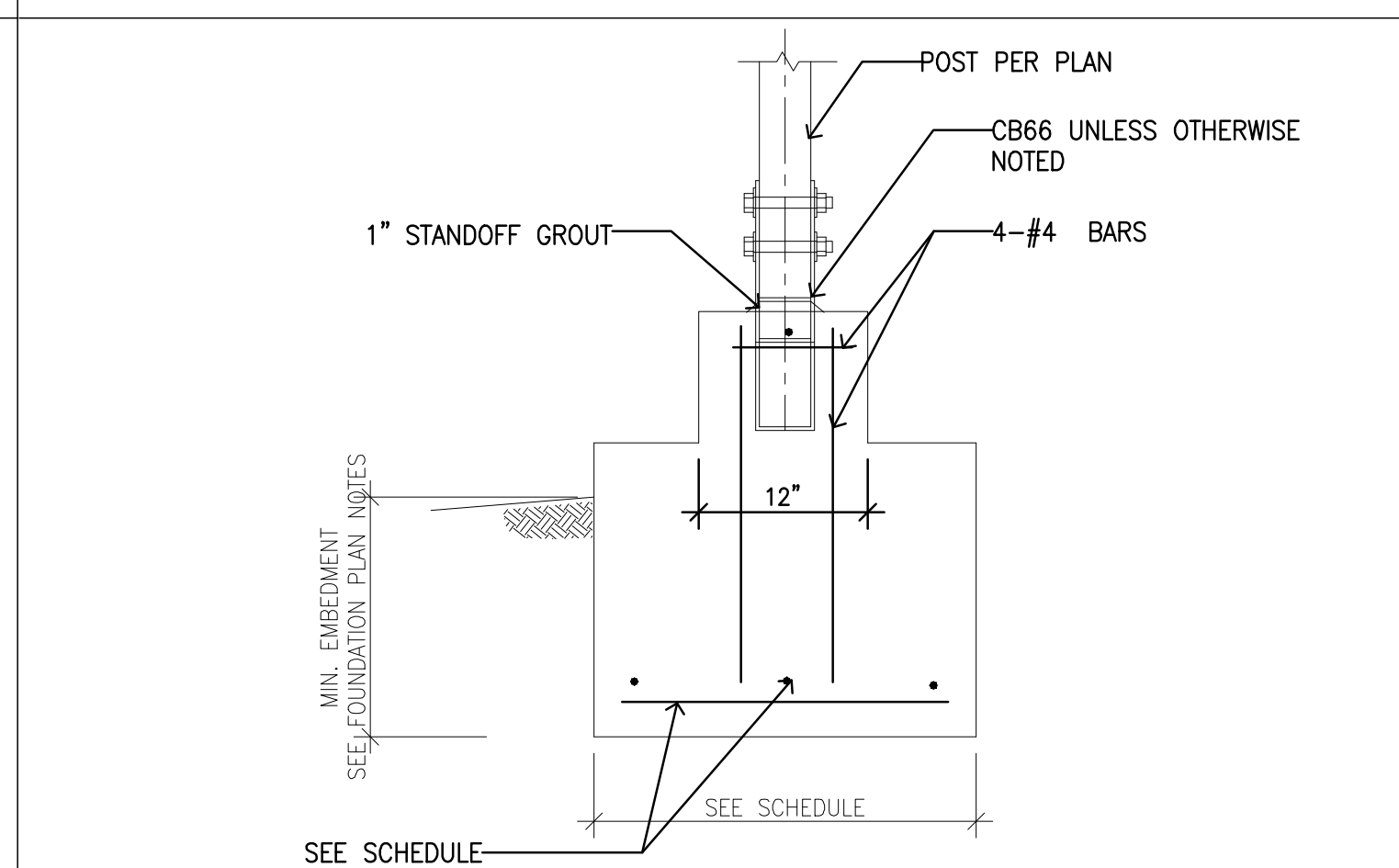
**INTERIOR SHEAR WALL + FLOOR**

6  
N.T.S.



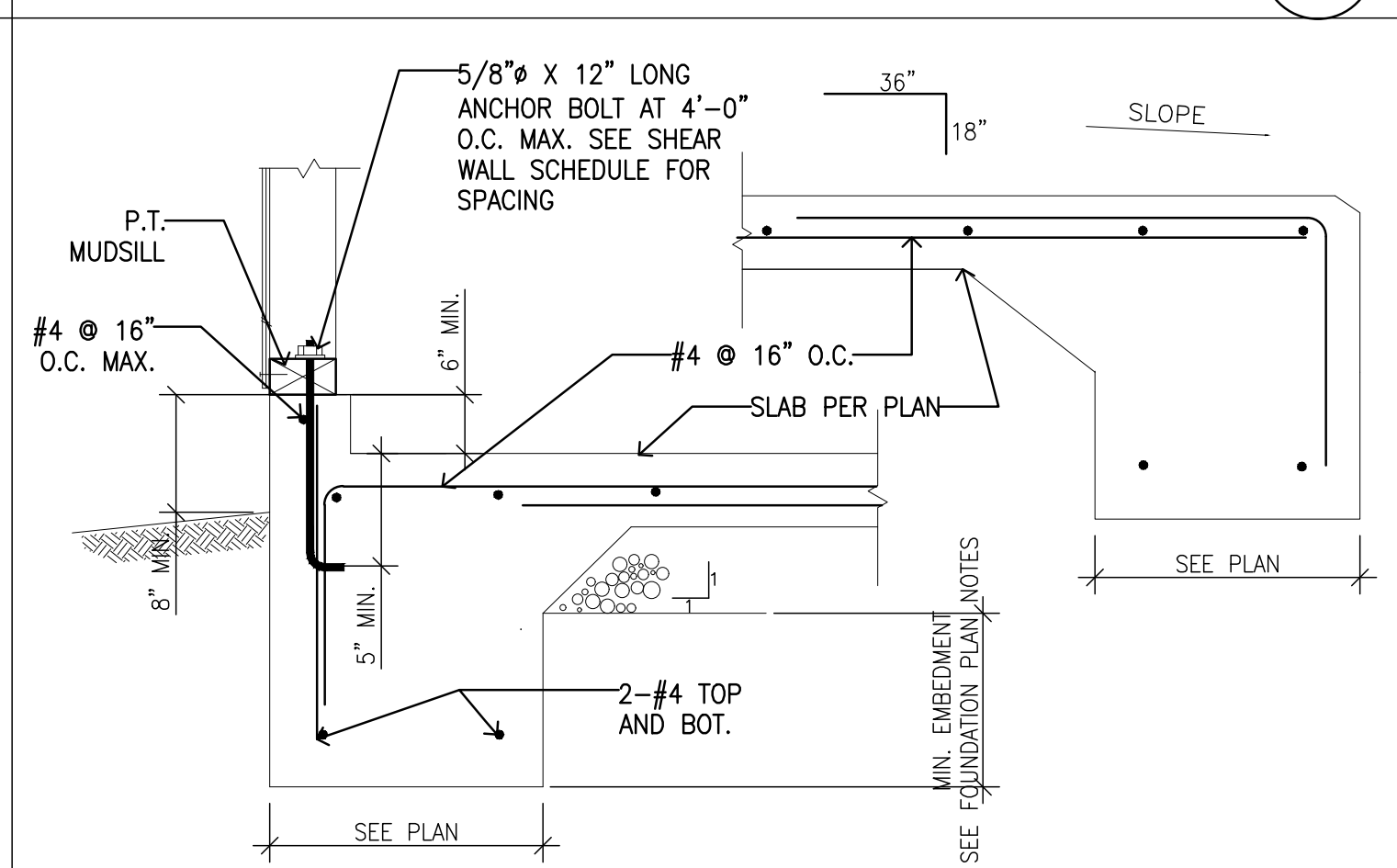
**FLOOR AT FOOTING**

2  
N.T.S.



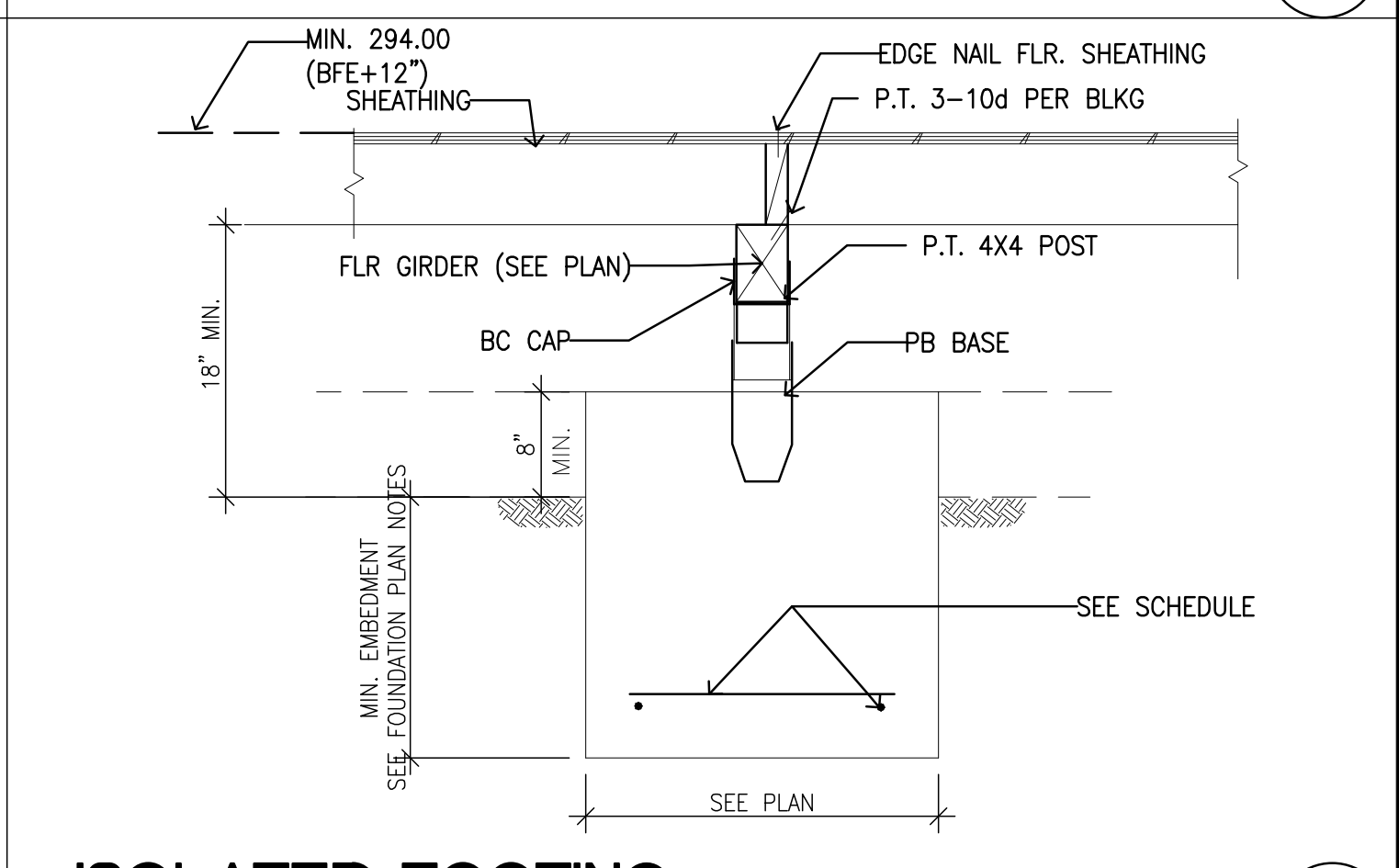
**EXTERIOR POST FTG**

11  
N.T.S.



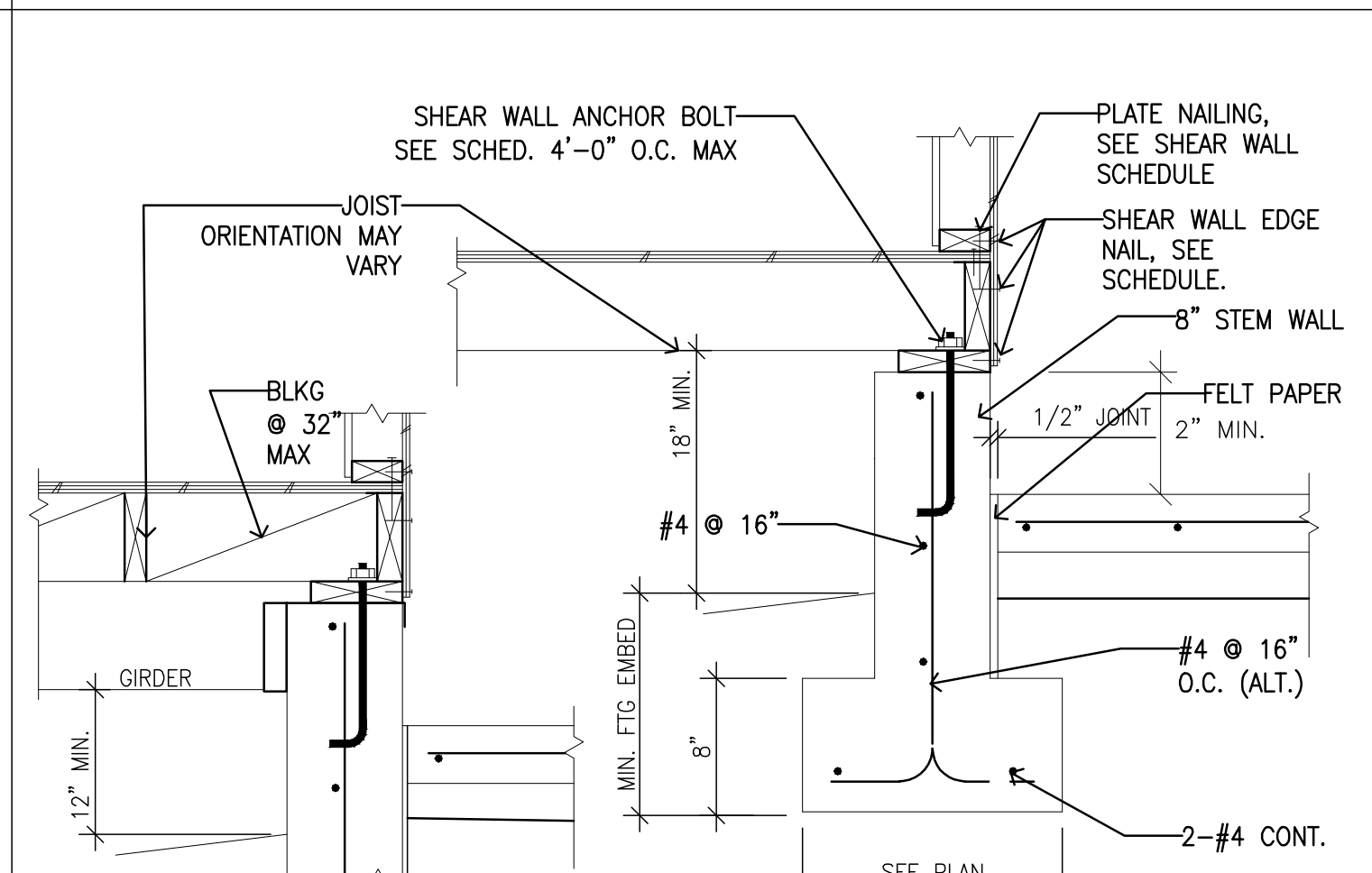
**FTG + GARAGE**

7  
N.T.S.



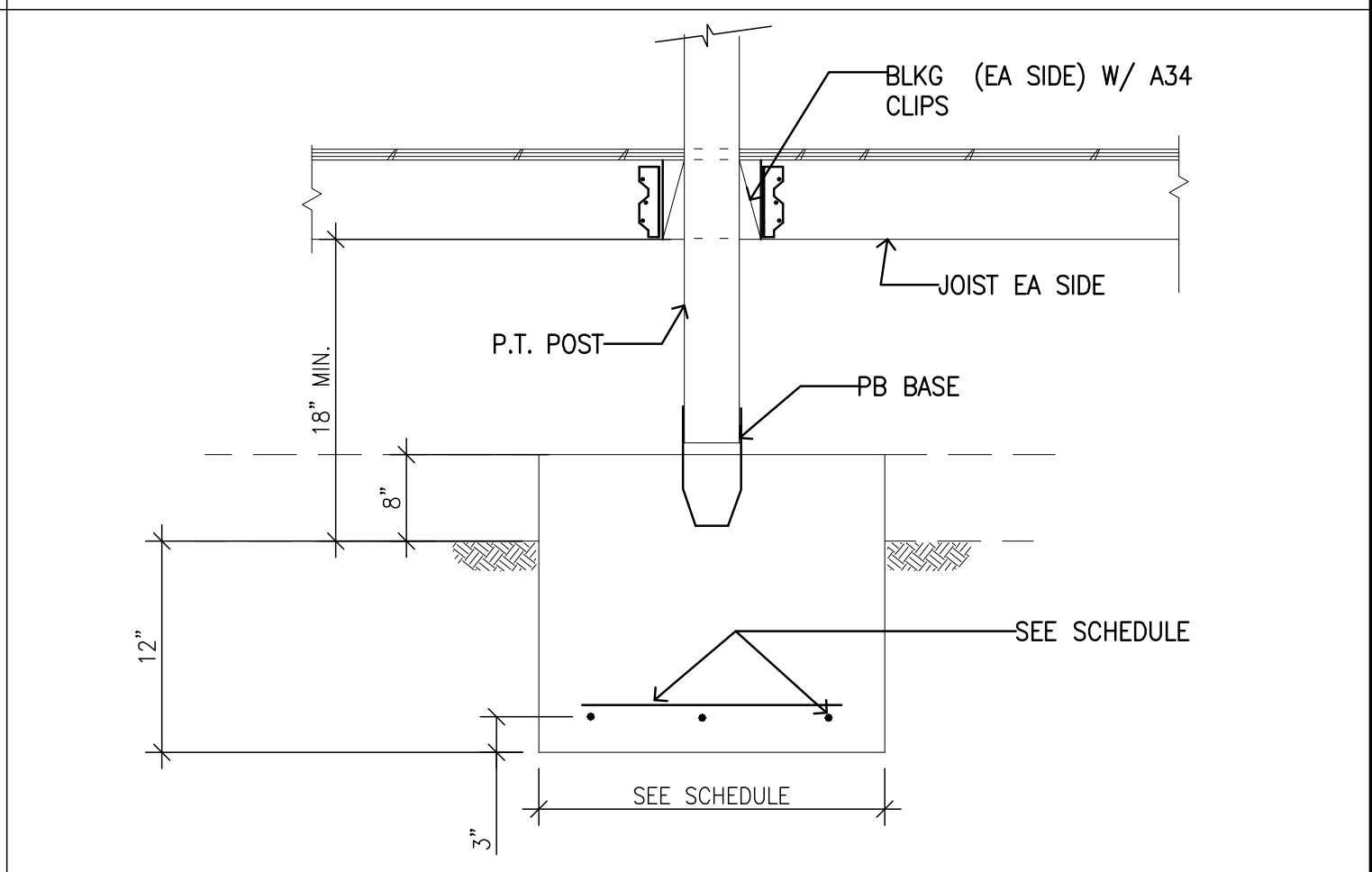
**ISOLATED FOOTING**

3  
N.T.S.



**FLOOR AT FOOTING**

8  
N.T.S.



**INTERIOR POST FOOTING**

4  
N.T.S.



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DRAWING HISTORY	DATE

**PROJECT**

AT

13685 SYCAMORE AVE.,  
 SAN MARTIN, CA



2-18-2022

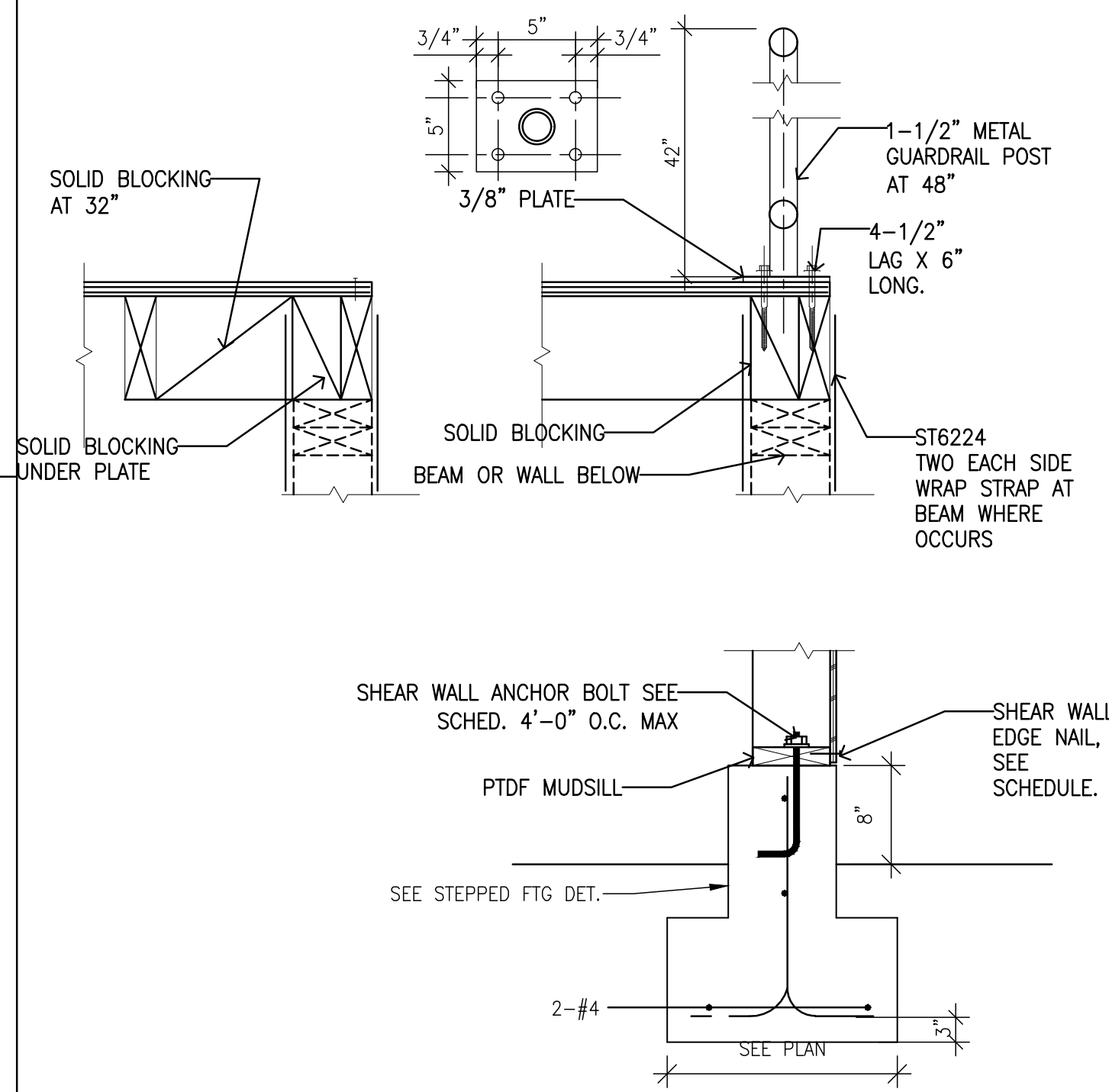
**STRUCTURAL DETAILS**

Drawn by: EH Drawing Number:

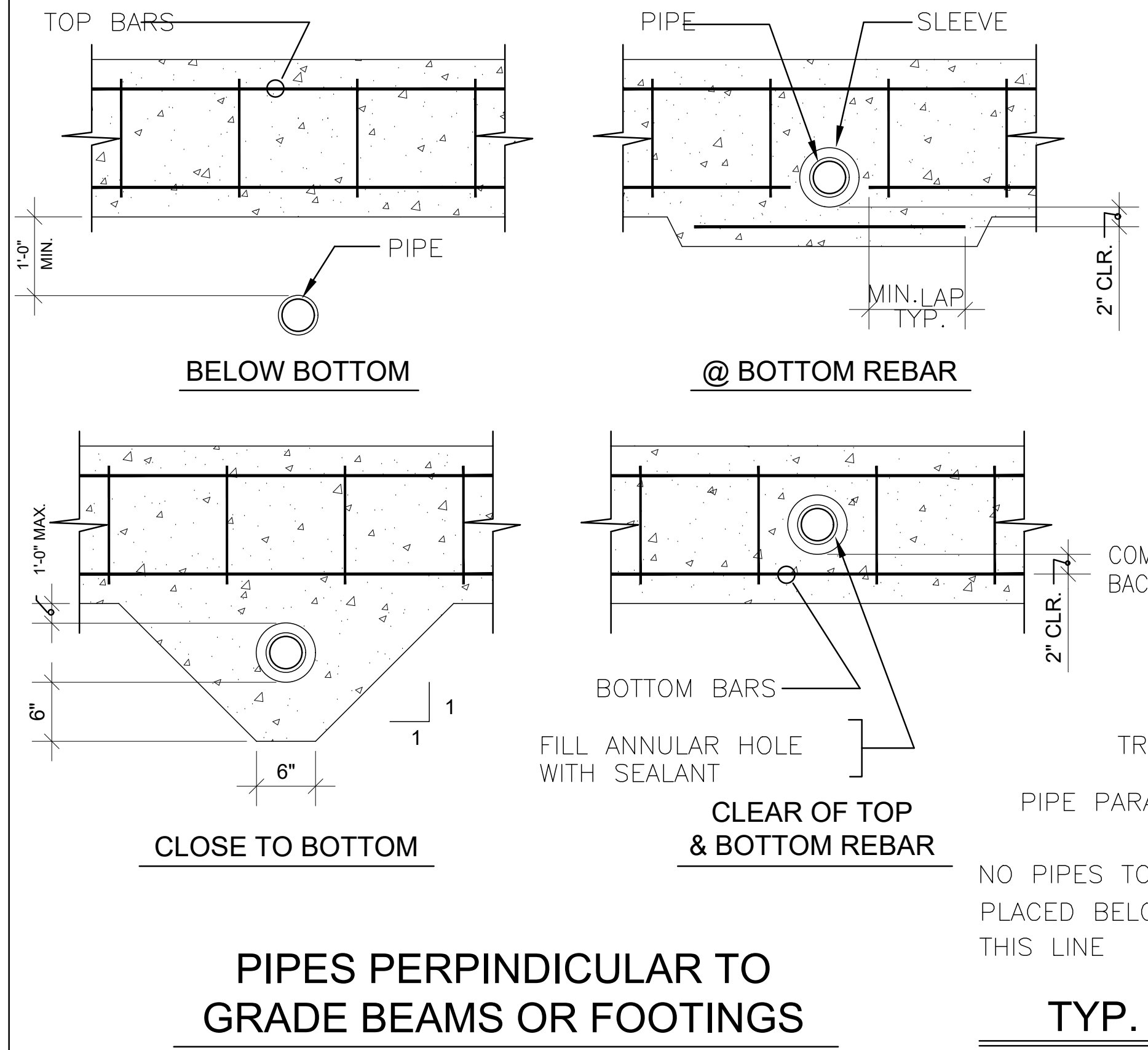
Checked by: **SD3**

Project Number: MG

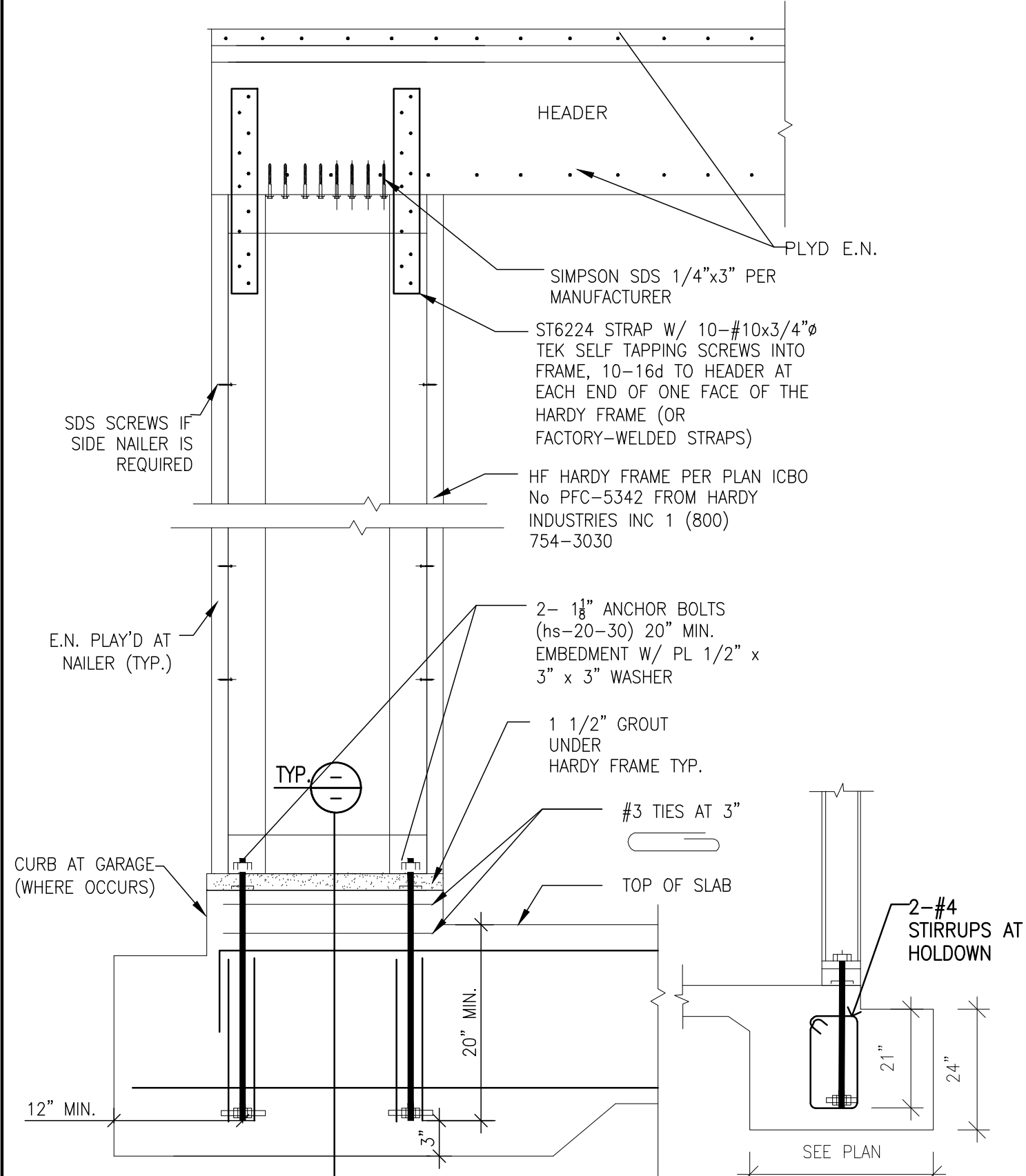
22-225 SHEET 9 OF 10



**DECK AND GUARDRAIL**  
 N.T.S. 10

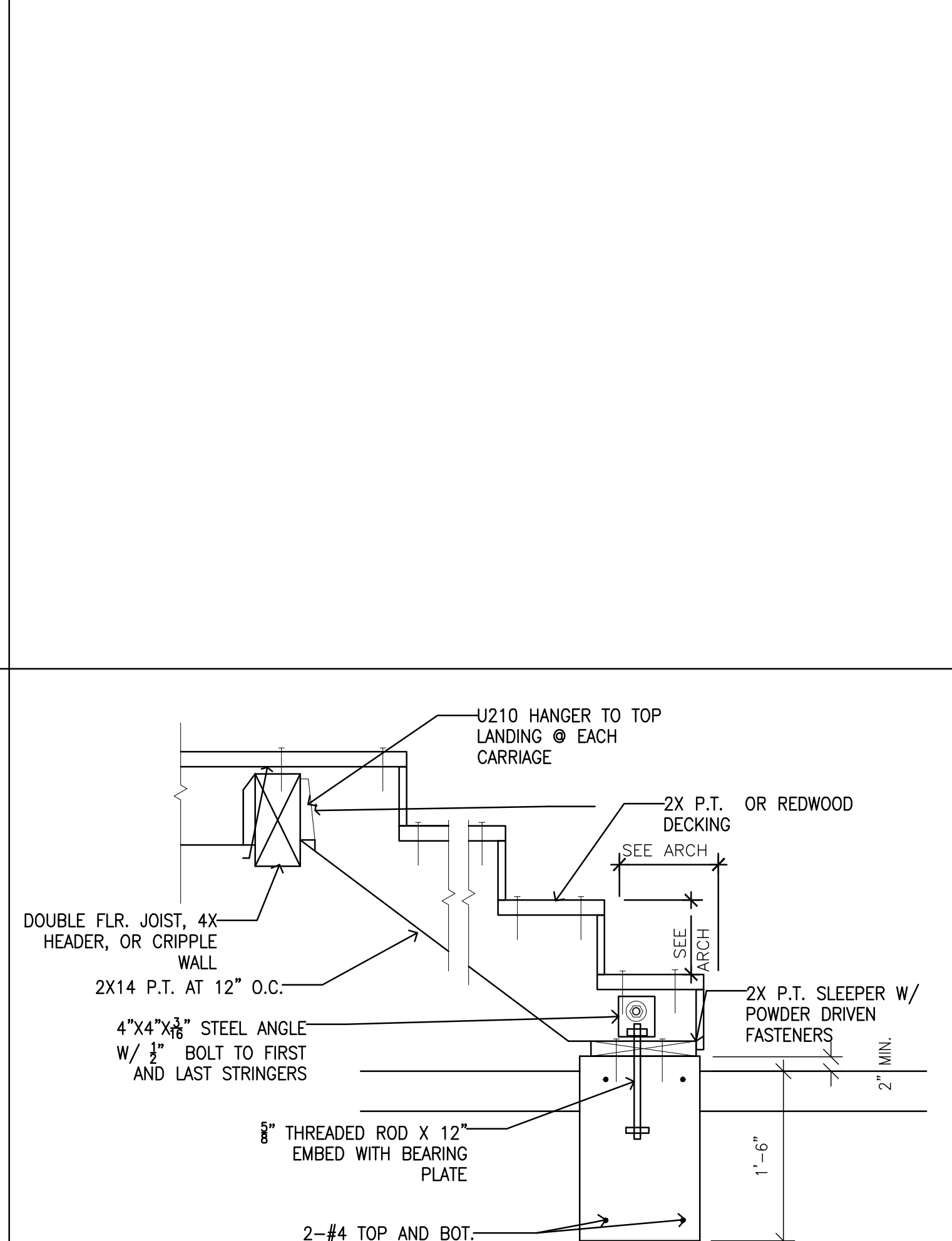


**PIPES PERPENDICULAR TO GRADE BEAMS OR FOOTINGS**  
 N.T.S. 2

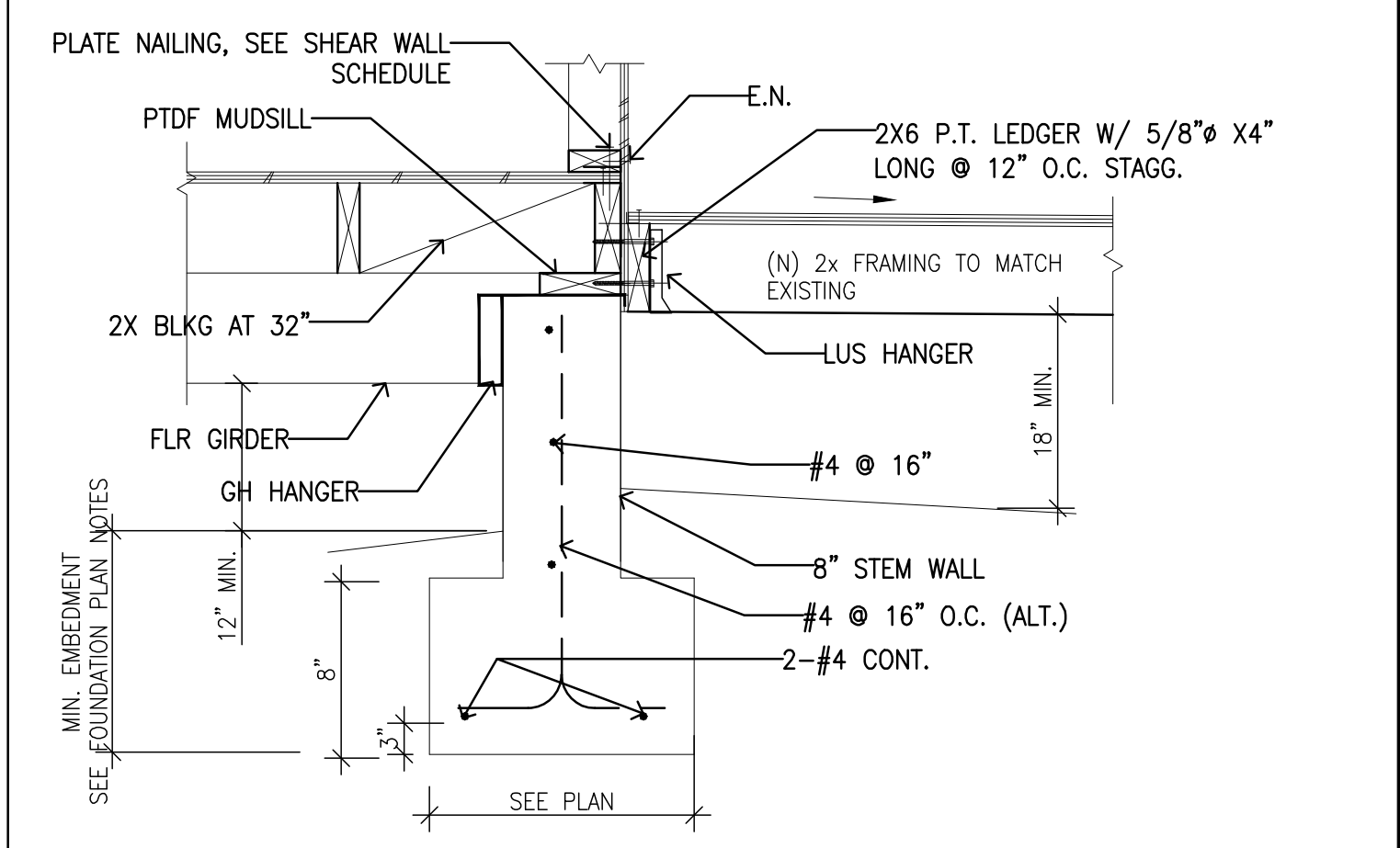


VERIFY HEIGHT OF HARDY FRAME AND OPENING CLEARANCE BEFORE ORDERING. REPORT TO ENGINEER IF DIFFERENT HEIGHT IS REQUIRED. DEEPEN FOOTING AS REQUIRED TO INSTALL HOLDDOWNS WITH 3" MIN. COVER. USE THICKER GROUT LAYER IF REQUIRED FOR HEIGHT ADJUSTMENT (NOT TO EXCEED 4" IN TOTAL THICKNESS)

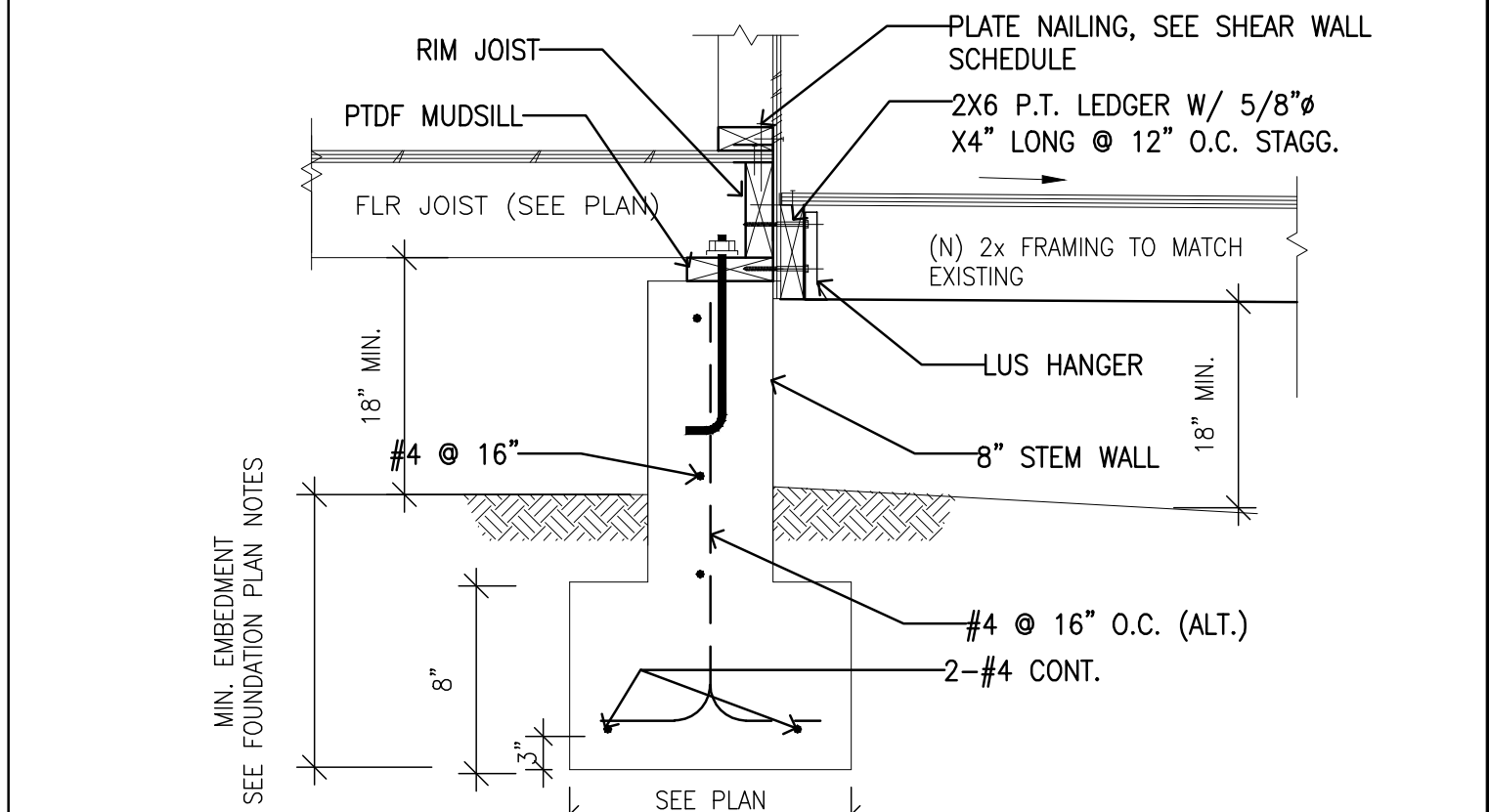
**HARDY FRAME DETAIL**  
 N.T.S. 16



**EXTERIOR STAIR FRAMING**  
 N.T.S. 8



**DECK AT FLOOR**  
 N.T.S. 3



**DECK AT FLOOR**  
 N.T.S. 4

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REVISION HISTORY	DATE

**PROJECT**

AT

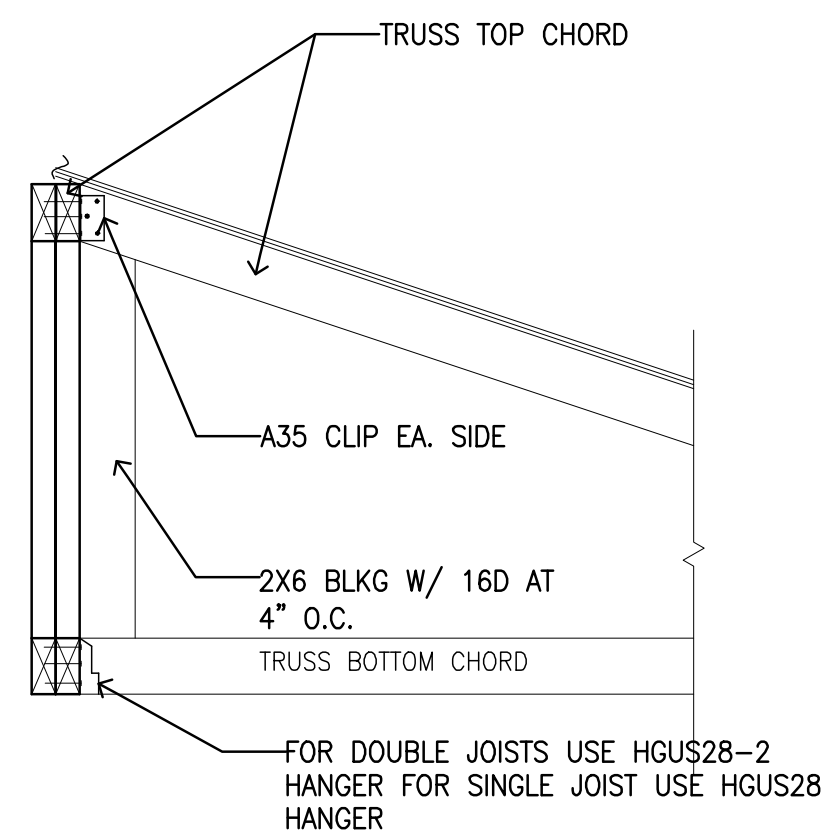
13685 SYCAMORE AVE.,  
 SAN MARTIN, CA



2-18-2022

**STRUCTURAL  
 DETAILS**

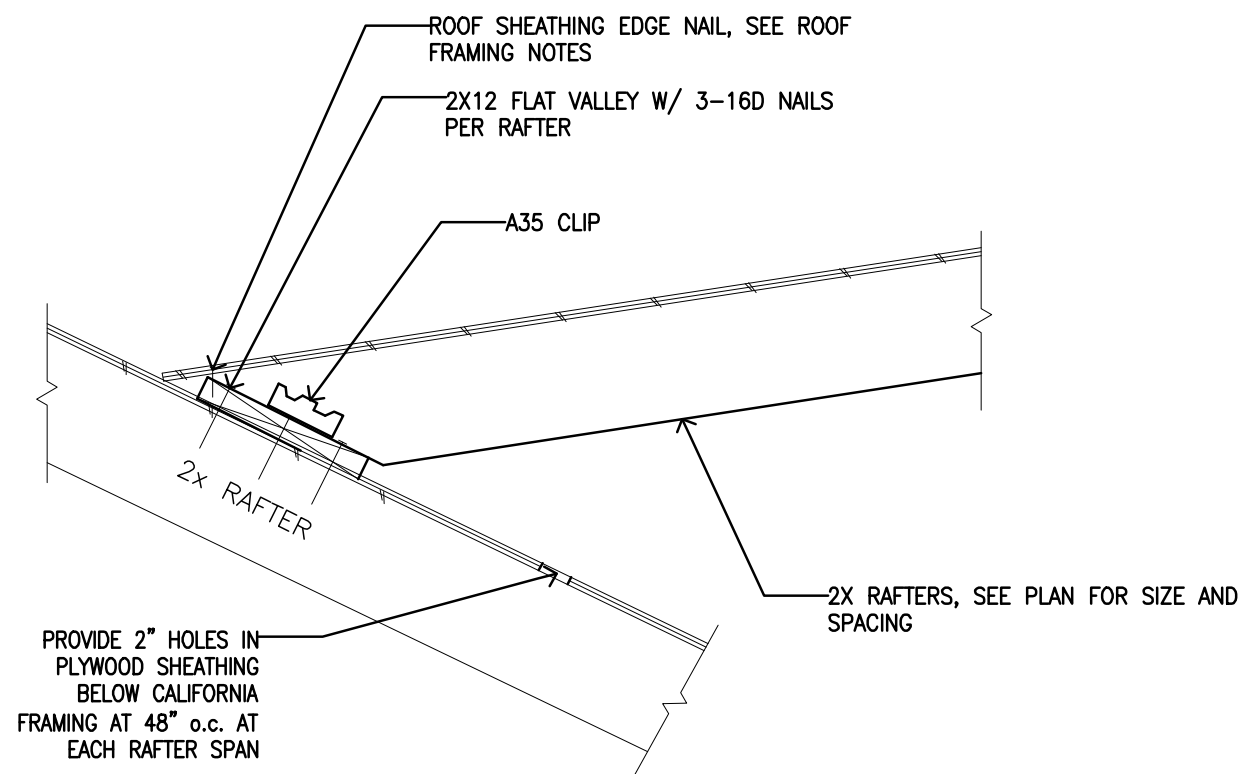
Drawn by: EH Drawing Number: **SD4**  
 Checked by: MG  
 Project Number: 22-225 SHEET 10 OF 10



**GIRDER TO GIRDER CONN.**

N.T.S.

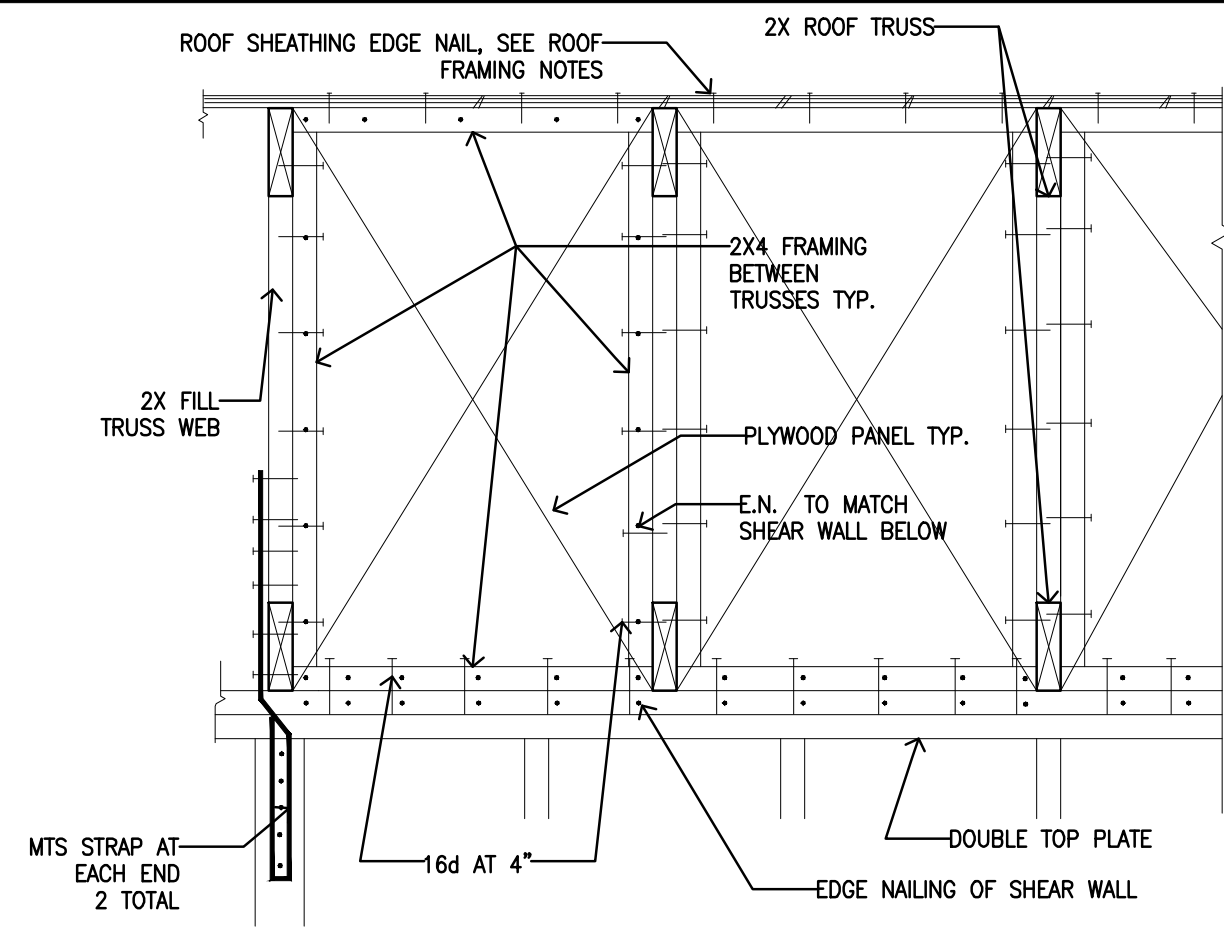
13



**CALIFORNIA FRAMING**

N.T.S.

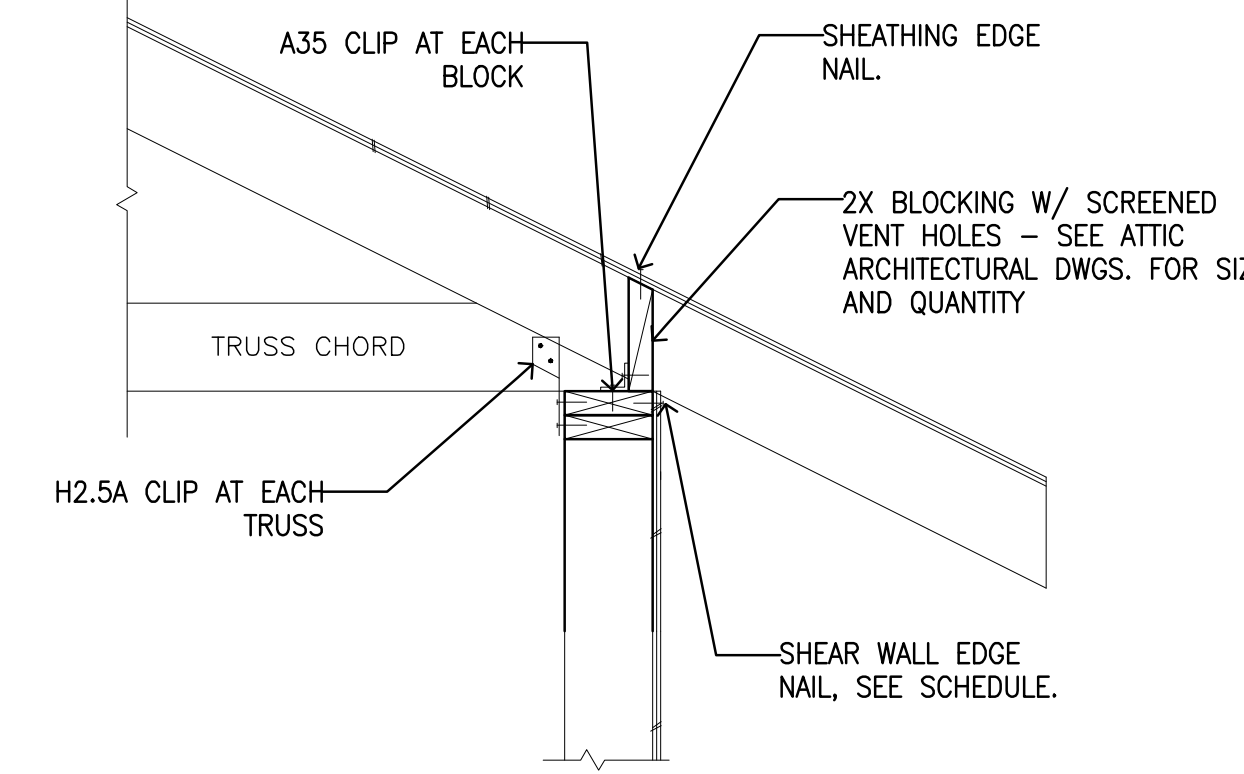
9



**INT. SHEAR WALL AT ROOF**

N.T.S.

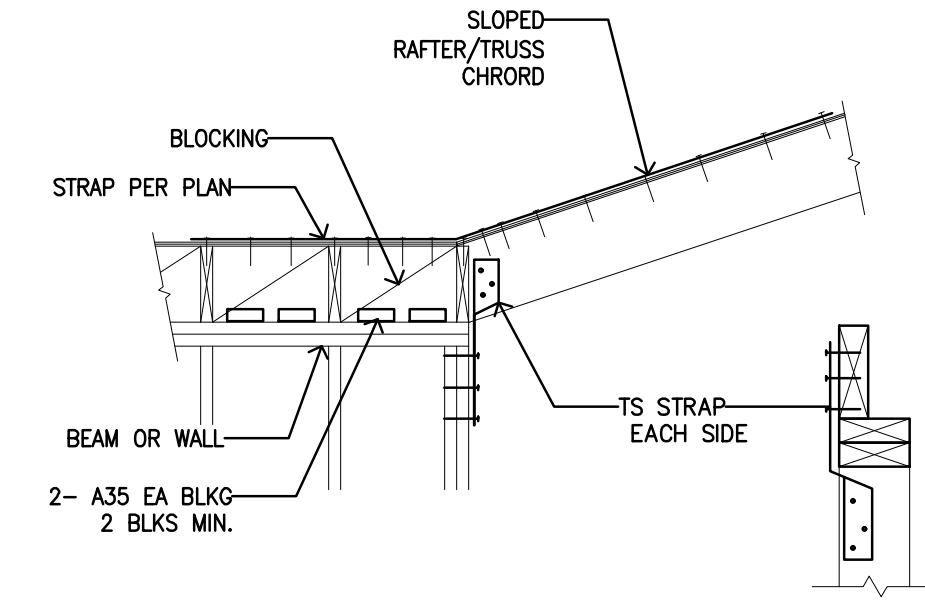
5



**TRUSS AT EAVE**

N.T.S.

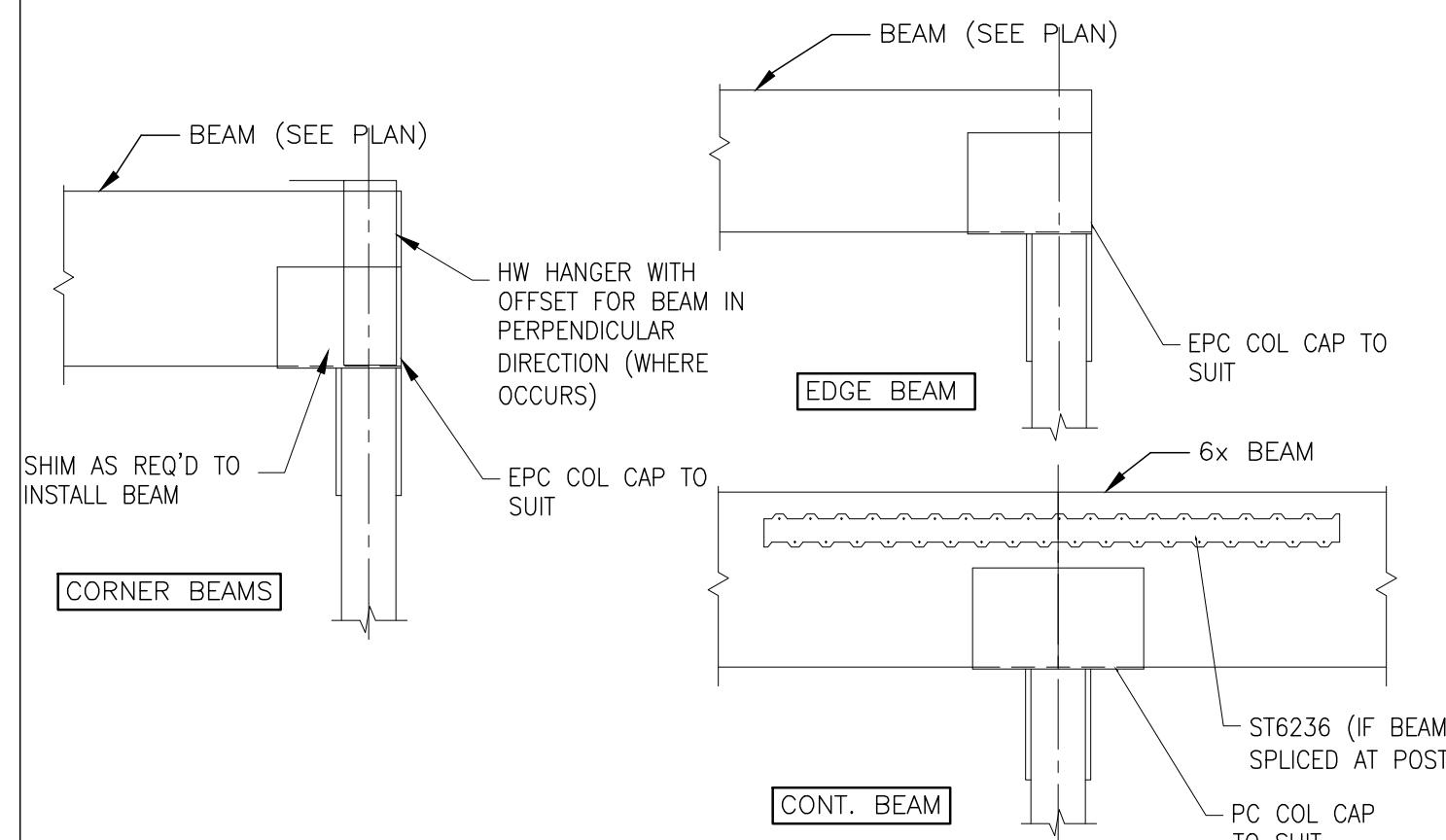
1



**DRAG STRAP**

N.T.S.

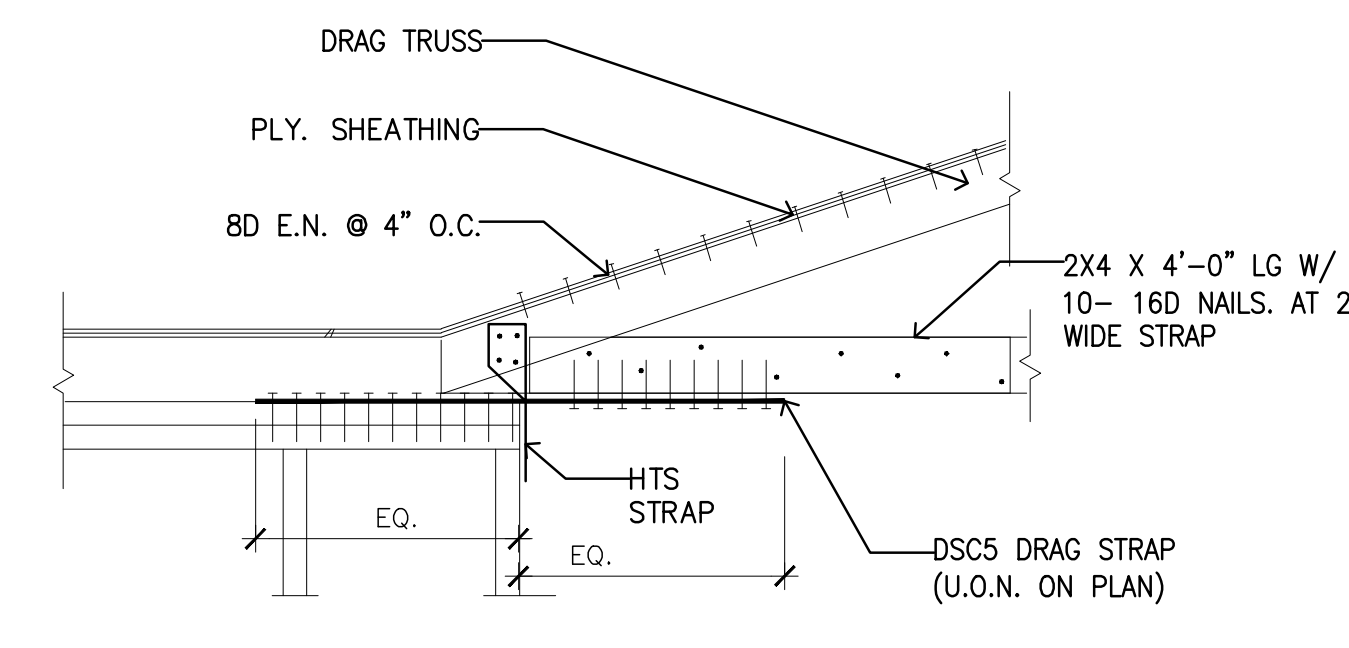
14



**BEAM @ POST (DIFFERENT CONDITIONS)**

N.T.S.

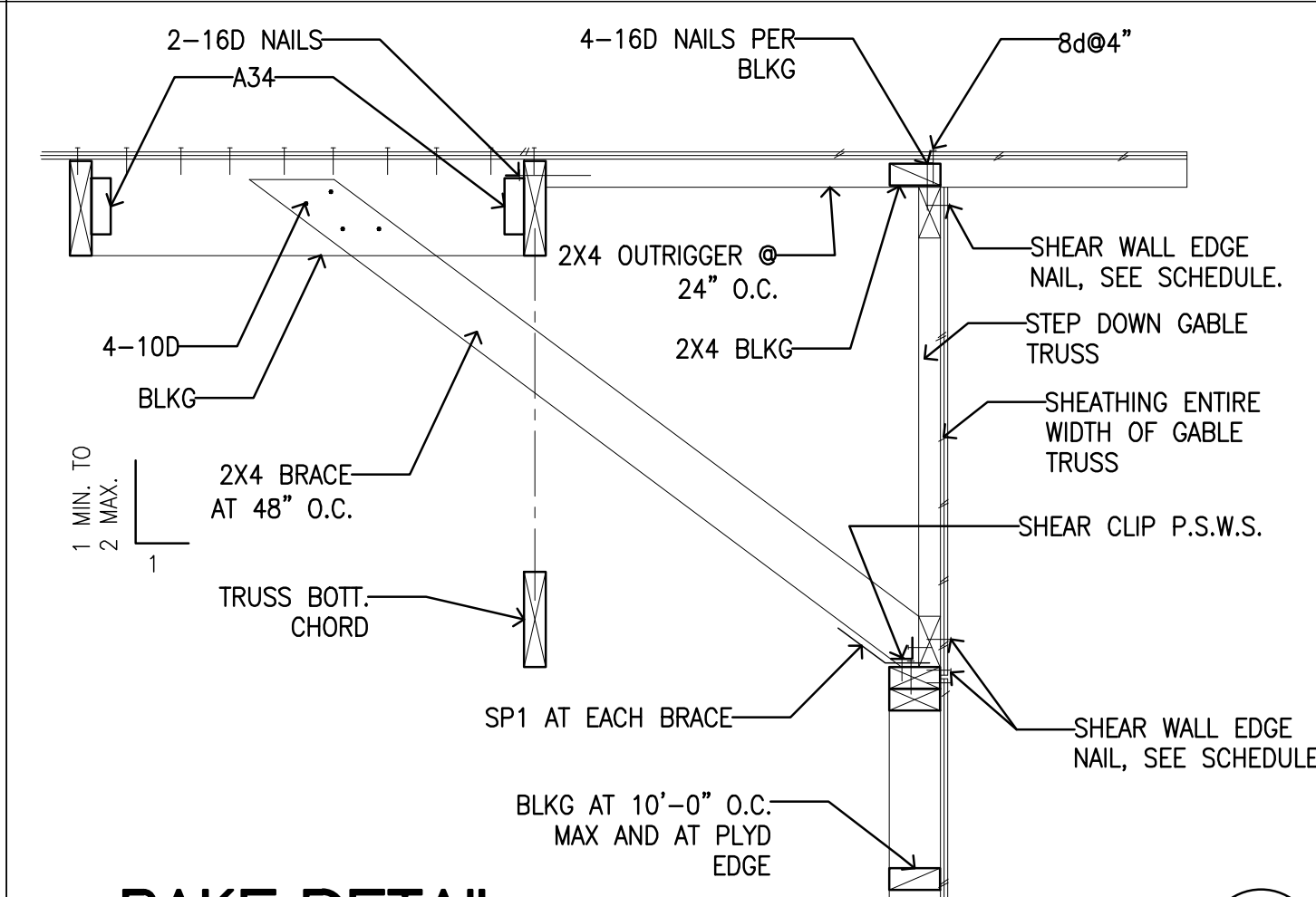
10



**DRAG TRUSS DETAIL**

N.T.S.

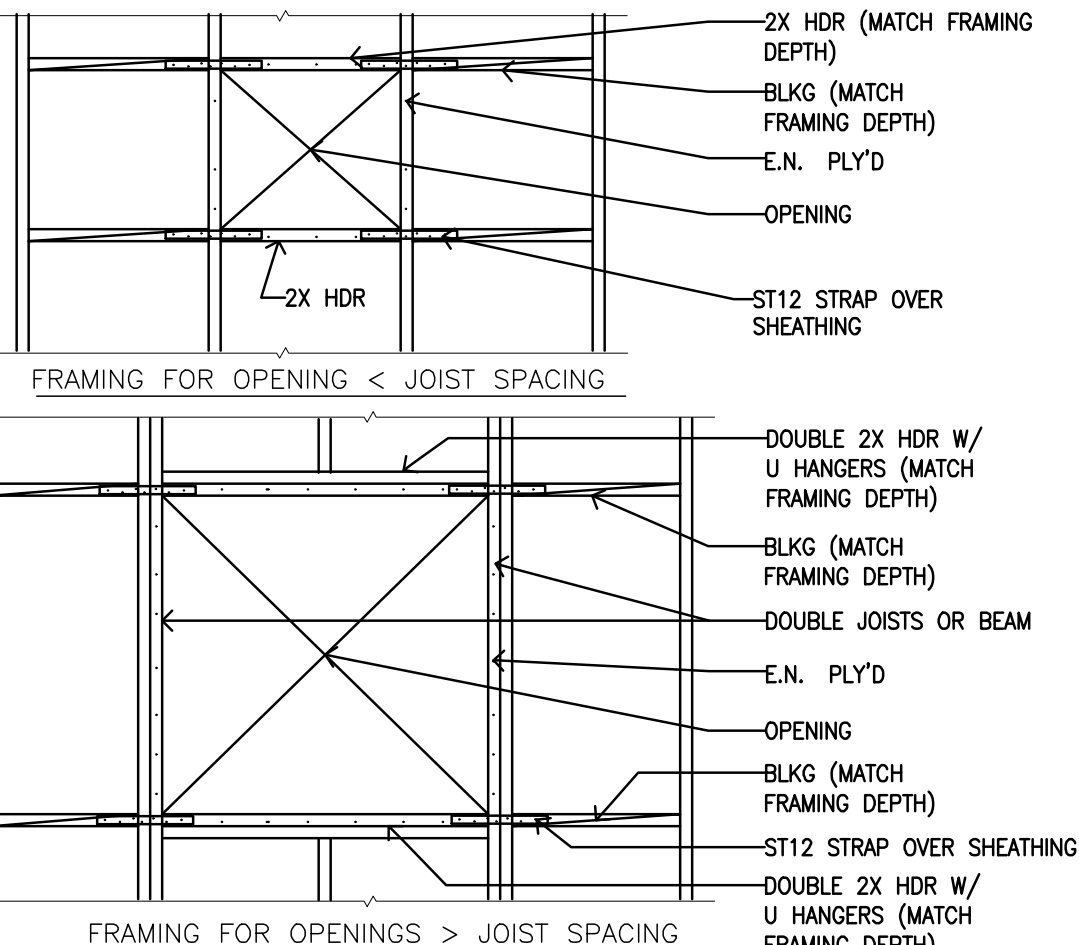
6



**RAKE DETAIL**

N.T.S.

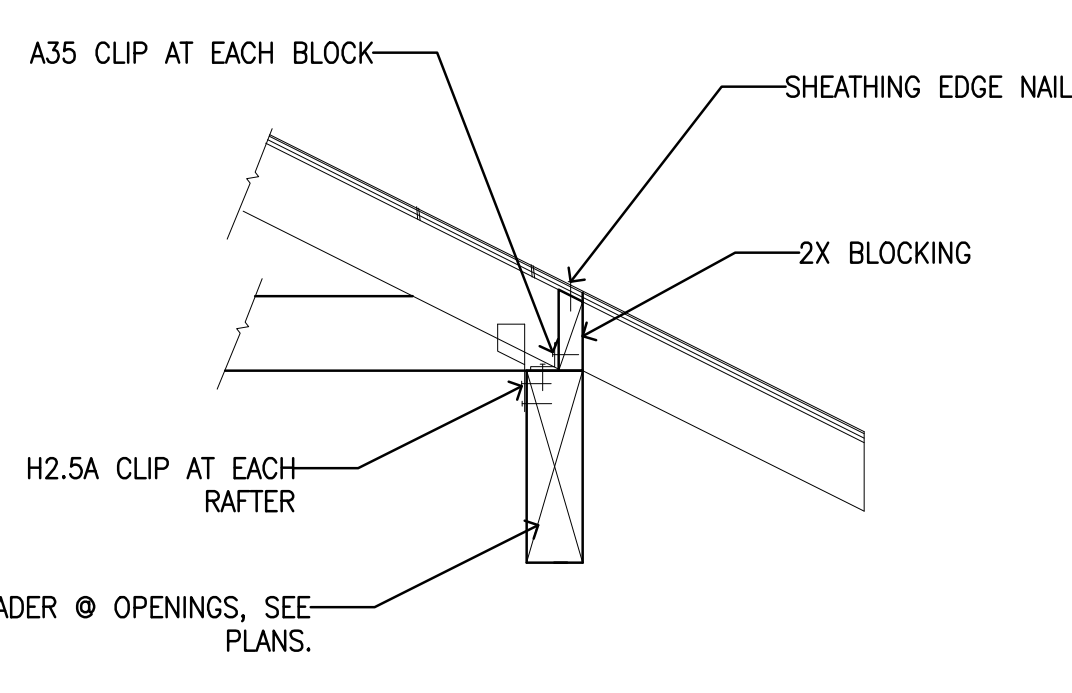
2



**OPENING IN FRAMING**

N.T.S.

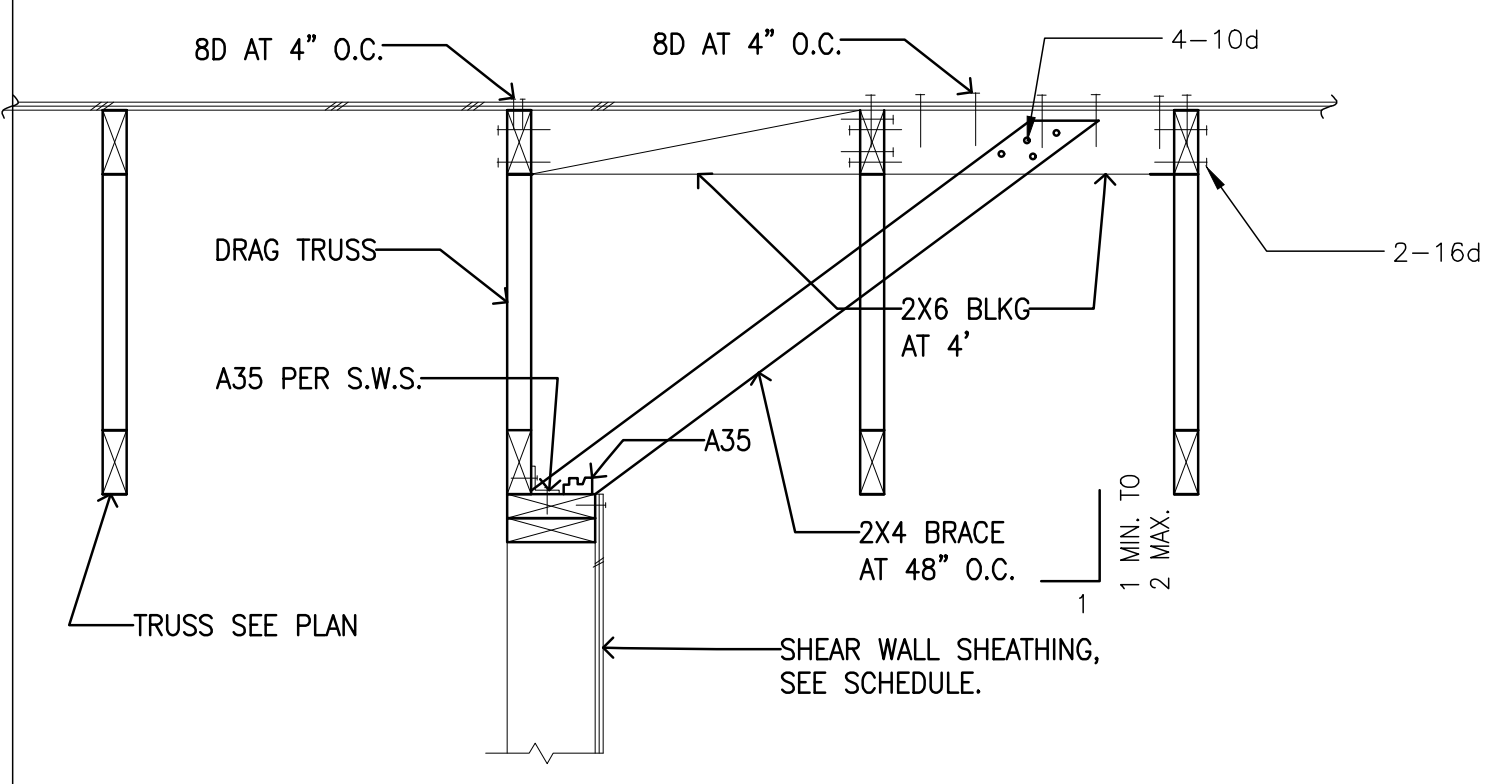
15



**EAVE DET.**

N.T.S.

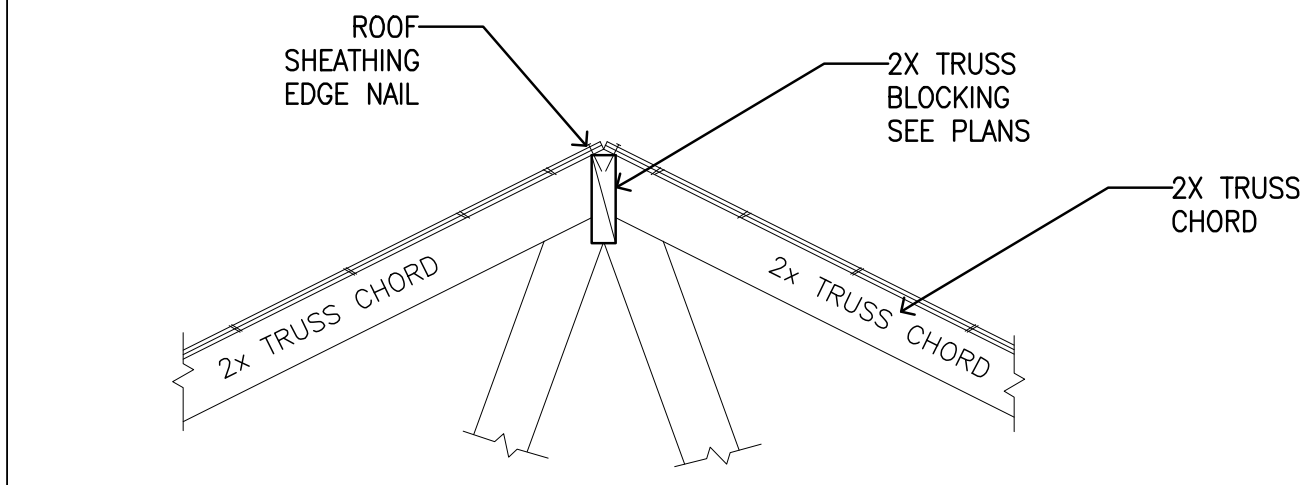
11



**INT. SHEAR WALL AT DRAG TRUSS**

N.T.S.

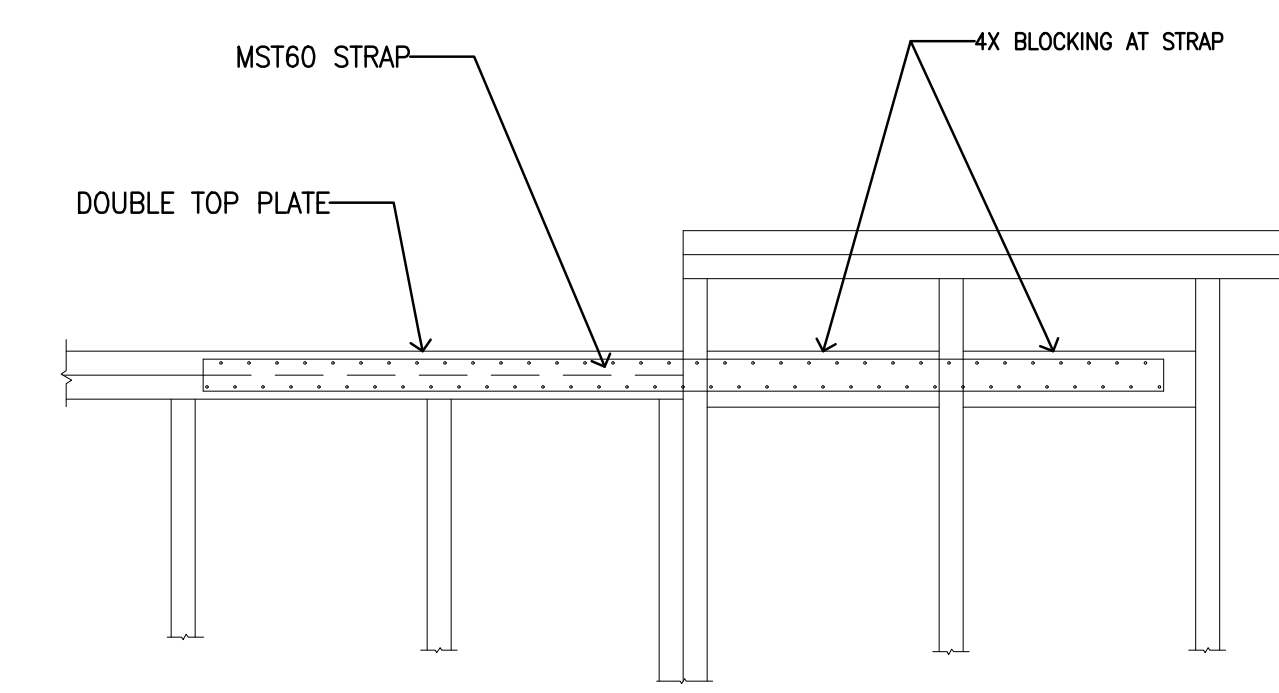
7



**TRUSS BLOCKING**

N.T.S.

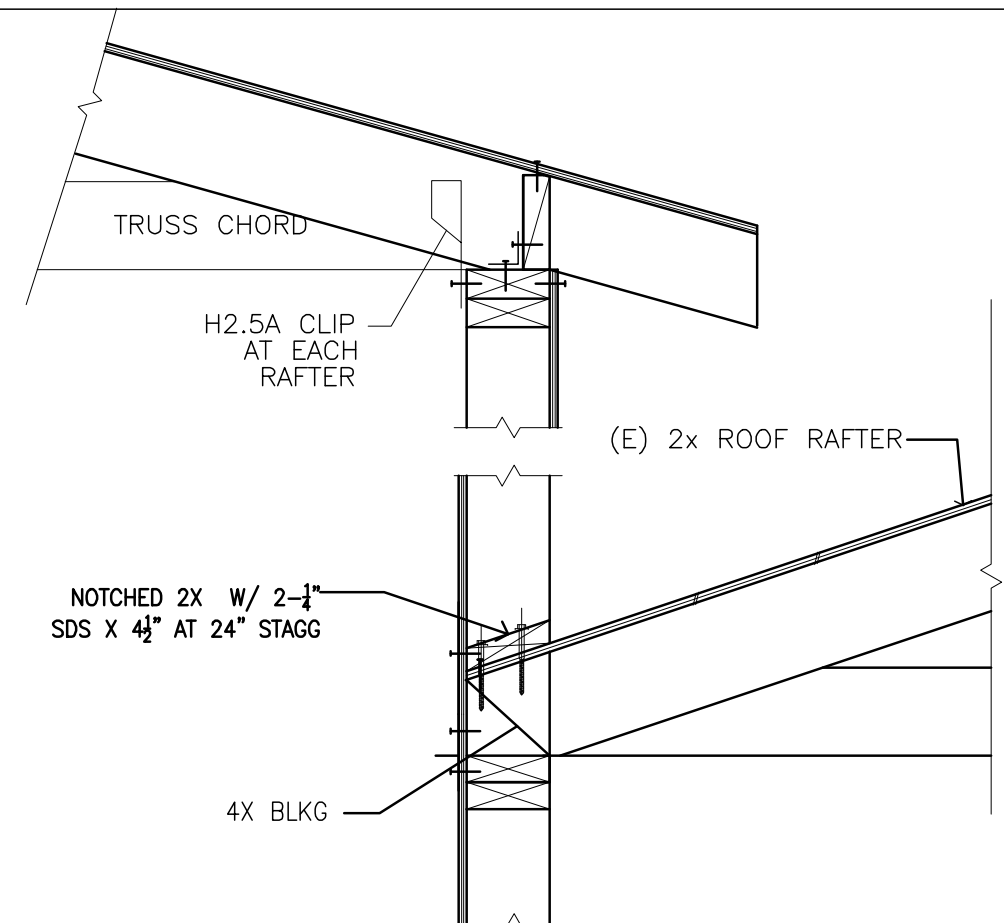
3



**WALL SPLICE AT STEP IN WALL**

N.T.S.

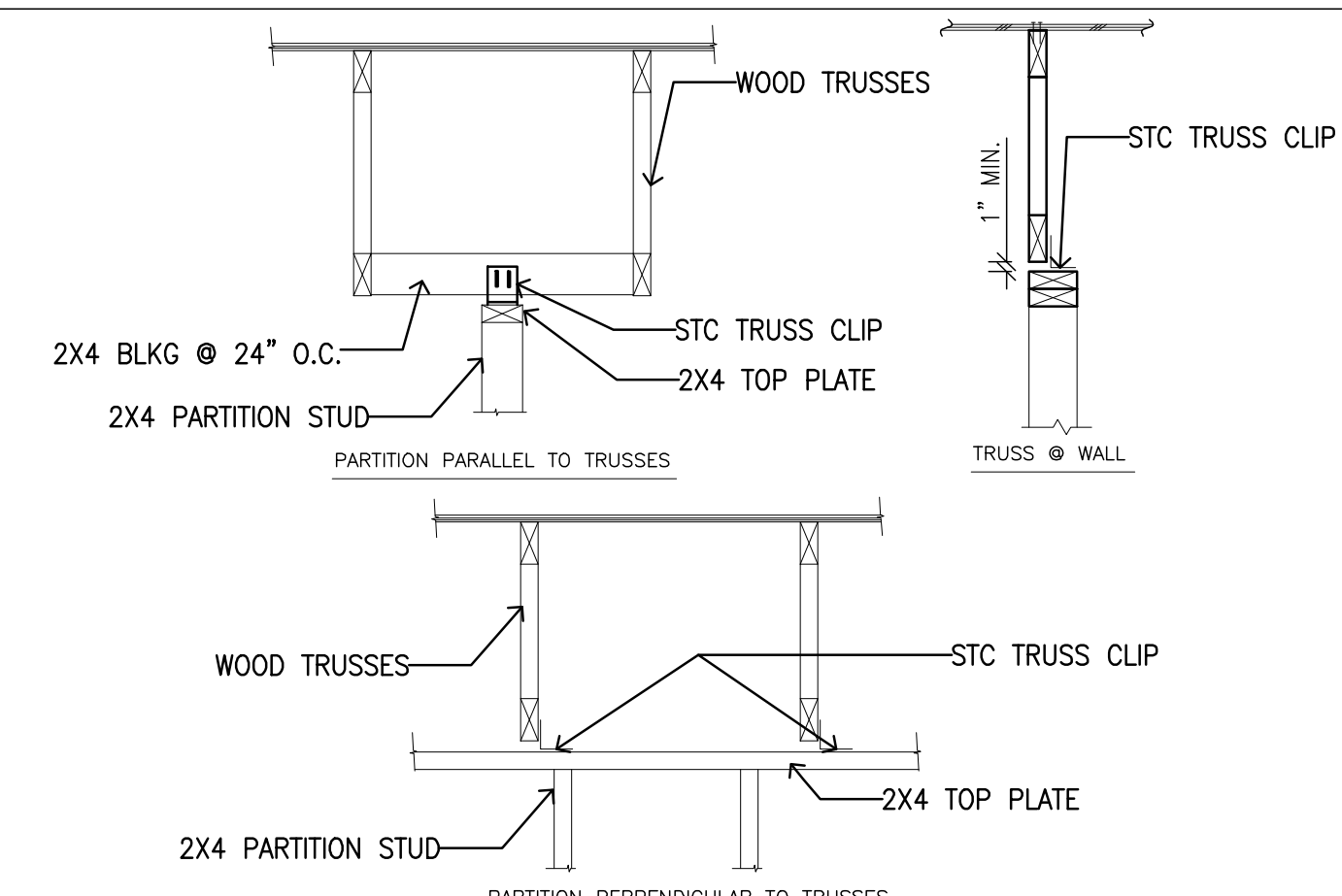
12



**ROOF STEP**

N.T.S.

8



**INTERIOR PARTITIONS @ TRUSSES**

N.T.S.

4

CERTIFICATE OF COMPLIANCE Project Name: Alvarado Residence Calculation Date/Time: 2022-02-09T10:15:30-08:00 Input File Name: Alvarado Residence (Sycamore Ave).rbd19x CF18-PRF-01E (Page 1 of 12)

GENERAL INFORMATION table with columns for Run Title, Project Location, City, Climate Zone, Building Type, Project Scope, Addition Cond. Floor Area, Existing Cond. Floor Area, Total Cond. Floor Area, ADU Bedroom Count, Is Natural Gas Available.

COMPLIANCE RESULTS table with columns for Building Complies with Computer Performance, This building incorporates features that require field testing and/or verification by a certified HERS Rater, This building incorporates one or more Special Features shown below.

Registration Number: 222-P010208431A-000-000-000000-0000 Registration Date/Time: 2022-02-09 11:38:18 HERS Provider: CalCERTS, Inc. CA Building Energy Efficiency Standards - 2019 Residential Compliance Report Version: 2019.2.000 Schema Version: rev 20200901

CERTIFICATE OF COMPLIANCE Project Name: Alvarado Residence Calculation Date/Time: 2022-02-09T10:15:30-08:00 Input File Name: Alvarado Residence (Sycamore Ave).rbd19x CF18-PRF-01E (Page 2 of 12)

ENERGY DESIGN RATINGS table with columns for Efficiency (EER), Total (EER), Efficiency (EER), Total (EER). Includes Energy Use Summary table.

REQUIRED PV SYSTEMS - SIMPLIFIED table with columns for DC System (kWdc), Exception, Module Type, Array Type, Power Electronics, CSI, Azimuth, Tilt, Input, Array Angle, Tilt, Inverter, Annual Solar Access.

Registration Number: 222-P010208431A-000-000-000000-0000 Registration Date/Time: 2022-02-09 11:38:18 HERS Provider: CalCERTS, Inc. CA Building Energy Efficiency Standards - 2019 Residential Compliance Report Version: 2019.2.000 Schema Version: rev 20200901

CERTIFICATE OF COMPLIANCE Project Name: Alvarado Residence Calculation Date/Time: 2022-02-09T10:15:30-08:00 Input File Name: Alvarado Residence (Sycamore Ave).rbd19x CF18-PRF-01E (Page 3 of 12)

REQUIRED SPECIAL FEATURES table with columns for Cooling, Insulation, Non-standard duct location. Includes HERS FEATURE SUMMARY table.

BUILDING - FEATURES INFORMATION table with columns for Project Name, Conditioned Floor Area, Number of Dwelling Units, Number of Bedrooms, Number of Zones, Number of Ventilation Cooling Systems, Number of Water Heating Systems.

Registration Number: 222-P010208431A-000-000-000000-0000 Registration Date/Time: 2022-02-09 11:38:18 HERS Provider: CalCERTS, Inc. CA Building Energy Efficiency Standards - 2019 Residential Compliance Report Version: 2019.2.000 Schema Version: rev 20200901

CERTIFICATE OF COMPLIANCE Project Name: Alvarado Residence Calculation Date/Time: 2022-02-09T10:15:30-08:00 Input File Name: Alvarado Residence (Sycamore Ave).rbd19x CF18-PRF-01E (Page 8 of 12)

OPAQUE SURFACES - CATHEDRAL CEILINGS table with columns for Name, Zone, Construction, Azimuth, Orientation, Area, Skylight Area, Roof Rise, Roof Reflectance, Radiant Barrier, Cool Roof.

ATTC table with columns for Name, Construction, Type, Roof Rise, Roof Reflectance, Roof Emittance, Cool Roof.

Registration Number: 222-P010208431A-000-000-000000-0000 Registration Date/Time: 2022-02-09 11:38:18 HERS Provider: CalCERTS, Inc. CA Building Energy Efficiency Standards - 2019 Residential Compliance Report Version: 2019.2.000 Schema Version: rev 20200901

CERTIFICATE OF COMPLIANCE Project Name: Alvarado Residence Calculation Date/Time: 2022-02-09T10:15:30-08:00 Input File Name: Alvarado Residence (Sycamore Ave).rbd19x CF18-PRF-01E (Page 5 of 12)

FENESTRATION / GLAZING table with columns for Name, Type, Surface, Orientation, Azimuth, Width, Height, Mult., Area, U-factor, SHGC, Source, Exterior Shading.

Registration Number: 222-P010208431A-000-000-000000-0000 Registration Date/Time: 2022-02-09 11:38:18 HERS Provider: CalCERTS, Inc. CA Building Energy Efficiency Standards - 2019 Residential Compliance Report Version: 2019.2.000 Schema Version: rev 20200901

CERTIFICATE OF COMPLIANCE Project Name: Alvarado Residence Calculation Date/Time: 2022-02-09T10:15:30-08:00 Input File Name: Alvarado Residence (Sycamore Ave).rbd19x CF18-PRF-01E (Page 6 of 12)

FENESTRATION / GLAZING table with columns for Name, Type, Surface, Orientation, Azimuth, Width, Height, Mult., Area, U-factor, SHGC, Source, Exterior Shading.

SLAB FLOORS table with columns for Name, Zone, Area, Perimeter, Edge Insul. R-value and Depth, Edge Insul. R-value and Depth, Carpeted Fraction, Heated.

Registration Number: 222-P010208431A-000-000-000000-0000 Registration Date/Time: 2022-02-09 11:38:18 HERS Provider: CalCERTS, Inc. CA Building Energy Efficiency Standards - 2019 Residential Compliance Report Version: 2019.2.000 Schema Version: rev 20200901

CERTIFICATE OF COMPLIANCE Project Name: Alvarado Residence Calculation Date/Time: 2022-02-09T10:15:30-08:00 Input File Name: Alvarado Residence (Sycamore Ave).rbd19x CF18-PRF-01E (Page 7 of 12)

OPAQUE SURFACE CONSTRUCTIONS table with columns for Construction Name, Surface Type, Construction Type, Framing, Total Cavity R-value, Interior / Exterior Continuity R-value, U-factor, Assembly Layers.

Registration Number: 222-P010208431A-000-000-000000-0000 Registration Date/Time: 2022-02-09 11:38:18 HERS Provider: CalCERTS, Inc. CA Building Energy Efficiency Standards - 2019 Residential Compliance Report Version: 2019.2.000 Schema Version: rev 20200901

CERTIFICATE OF COMPLIANCE Project Name: Alvarado Residence Calculation Date/Time: 2022-02-09T10:15:30-08:00 Input File Name: Alvarado Residence (Sycamore Ave).rbd19x CF18-PRF-01E (Page 8 of 12)

BUILDING ENVELOPE - HERS VERIFICATION table with columns for Quality Insulation Installation, High R-value Spray Foam Insulation, Building Envelope Air Leakage, CFM50.

WATER HEATING SYSTEMS table with columns for Name, System Type, Distribution Type, Water Heater Name, Solar Heating System, Compact Distribution, HERS Verification.

WATER HEATERS table with columns for Name, Heating Element Type, Tank Type, # of Units, Tank Vol., Energy Efficiency, Input Rating, Tank Insulation R-value, Standby Loss, 1st Hr. Rating, NEHA Heat Pump Brand or Model, Tank Location or Ambient Condition.

Registration Number: 222-P010208431A-000-000-000000-0000 Registration Date/Time: 2022-02-09 11:38:18 HERS Provider: CalCERTS, Inc. CA Building Energy Efficiency Standards - 2019 Residential Compliance Report Version: 2019.2.000 Schema Version: rev 20200901

CERTIFICATE OF COMPLIANCE Project Name: Alvarado Residence Calculation Date/Time: 2022-02-09T10:15:30-08:00 Input File Name: Alvarado Residence (Sycamore Ave).rbd19x CF18-PRF-01E (Page 9 of 12)

SPACE CONDITIONING SYSTEMS table with columns for Name, System Type, Heating Unit Name, Cooling Unit Name, Fan Name, Distribution Name, Required Thermostat, Status, Verified Existing Condition, Heating Equipment Count, Cooling Equipment Count.

HVAC - HEATING UNIT TYPES table with columns for Name, System Type, Number of Units, Heating Efficiency.

HVAC - COOLING UNIT TYPES table with columns for Name, System Type, Number of Units, Efficiency EER/SEER, Efficiency SEER, Zonally Controlled, Multi-speed Compressor, HERS Verification.

HVAC COOLING - HERS VERIFICATION table with columns for Name, Verified Airflow, Airflow Target, Verified EER, Verified SEER, Verified Refrigerant Charge.

HVAC FAN SYSTEMS table with columns for Name, Type, Fan Power, HERS Name.

Registration Number: 222-P010208431A-000-000-000000-0000 Registration Date/Time: 2022-02-09 11:38:18 HERS Provider: CalCERTS, Inc. CA Building Energy Efficiency Standards - 2019 Residential Compliance Report Version: 2019.2.000 Schema Version: rev 20200901

CERTIFICATE OF COMPLIANCE Project Name: Alvarado Residence Calculation Date/Time: 2022-02-09T10:15:30-08:00 Input File Name: Alvarado Residence (Sycamore Ave).rbd19x CF18-PRF-01E (Page 10 of 12)

HVAC - DISTRIBUTION SYSTEMS table with columns for Name, Type, Design Type, Supply, Return, Supply, Return, Supply, Return, Bypass, Duct Leakage, HERS Verification.

HVAC DISTRIBUTION - HERS VERIFICATION table with columns for Name, Duct Leakage Verification, Duct Leakage Target, Verified Duct Design, Verified Duct Design, Buried Ducts, Deeply Buried Ducts, Low-leakage Air Handler, Low-leakage Air Handler.

HVAC - FAN SYSTEMS table with columns for Name, Type, Fan Power, HERS Name.

HVAC FAN SYSTEMS - HERS VERIFICATION table with columns for Name, Verified Fan Watt Draw, Required Fan Efficiency.

HVAC FAN SYSTEMS table with columns for Name, Type, Fan Power, HERS Name.

Registration Number: 222-P010208431A-000-000-000000-0000 Registration Date/Time: 2022-02-09 11:38:18 HERS Provider: CalCERTS, Inc. CA Building Energy Efficiency Standards - 2019 Residential Compliance Report Version: 2019.2.000 Schema Version: rev 20200901

CERTIFICATE OF COMPLIANCE Project Name: Alvarado Residence Calculation Date/Time: 2022-02-09T10:15:30-08:00 Input File Name: Alvarado Residence (Sycamore Ave).rbd19x CF18-PRF-01E (Page 11 of 12)

IAQ (INDOOR AIR QUALITY) HANS table with columns for Dwelling Unit, IAQ CFM, IAQ Watts/CFM, IAQ Fan Type, IAQ Recovery Effectiveness - SEI, IAQ Recovery Effectiveness - AIRE, HERS Verification.

INDOOR AIR QUALITY table with columns for Name, System Type, Design Type, Supply, Return, Supply, Return, Supply, Return, Bypass, Duct Leakage, HERS Verification.

Registration Number: 222-P010208431A-000-000-000000-0000 Registration Date/Time: 2022-02-09 11:38:18 HERS Provider: CalCERTS, Inc. CA Building Energy Efficiency Standards - 2019 Residential Compliance Report Version: 2019.2.000 Schema Version: rev 20200901

CERTIFICATE OF COMPLIANCE Project Name: Alvarado Residence Calculation Date/Time: 2022-02-09T10:15:30-08:00 Input File Name: Alvarado Residence (Sycamore Ave).rbd19x CF18-PRF-01E (Page 12 of 12)

DECLARATION STATEMENT table with columns for Name, Signature Date, Address, City/State/Zip, License, HERS Name.

Registration Number: 222-P010208431A-000-000-000000-0000 Registration Date/Time: 2022-02-09 11:38:18 HERS Provider: CalCERTS, Inc. CA Building Energy Efficiency Standards - 2019 Residential Compliance Report Version: 2019.2.000 Schema Version: rev 20200901

RESIDENTIAL MEASURES SUMMARY RMS-1
Project Name: Alvarado Residence
Building Type: Single Family
Date: 2/9/2022
Project Address: 13685 Sycamore Ave San Martin
CA Climate Zone 04
Total Cond. Floor Area: 4,238
Addition: n/a
# of Units: 1

2019 Low-Rise Residential Mandatory Measures Summary
NOTE: Low-rise residential buildings subject to the Energy Standards must comply with all applicable mandatory measures, regardless of the compliance approach used. Review the respective section for more information. Exceptions may apply.
Building Envelope Measures:
§ 110.6(a)1: Air Leakage. Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 CFM per square foot or less when tested per NFRC-400, ASTM E283 or AAMA/VDMA/CSA 1011.5.2/440-2011.

2019 Low-Rise Residential Mandatory Measures Summary
§ 150.0(h)3A: Clearances. Air conditioner and heat pump outdoor condensing units must have a clearance of at least five feet from the outlet of any dryer.
§ 150.0(h)3B: Liquid Line Drier. Air conditioners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the manufacturer's instructions.
§ 150.0(j)1: Storage Tank Insulation. Unfired hot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must have a minimum of R-12 external insulation or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank.

2019 Low-Rise Residential Mandatory Measures Summary
Requirements for Ventilation and Indoor Air Quality:
§ 150.0(o)1: Requirements for Ventilation and Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(o).
§ 150.0(o)1C: Single Family Detached Dwelling Units. Single family detached dwelling units, and attached dwelling units not sharing ceilings or floors with other dwelling units, occupiable spaces, public garages, or commercial spaces must have mechanical ventilation airflow provided at rates determined by ASHRAE 62.2 Sections 4.1.1 and 4.1.2 and as specified in § 150.0(o)1C.

2019 Low-Rise Residential Mandatory Measures Summary
§ 150.0(k)2G: Interior Switches and Controls. An energy management control system (EMCS) may be used to comply with control requirements if it provides functionality of the specified control according to § 110.9; meets the Installation Certificate requirements of § 130.4; meets the EMCS requirements of § 130.0(a); and meets all other requirements in § 150.0(k)2.
§ 150.0(k)2H: Interior Switches and Controls. A multistage programmable controller may be used to comply with dimmer requirements in § 150.0(k)2 if it provides the functionality of § 110.9, and complies with all other applicable requirements in § 150.0(k)2.

ROOM LOAD SUMMARY
Project Name: Alvarado Residence
Date: 2/9/2022
System Name: HVAC System
Floor Area: 4,238
ROOM LOAD SUMMARY
Zone Name: Living Area
Room Name: 1st Floor
Mult.: 1
ROOM COOLING PEAK: CFM 1,514, Sensible 32,385, Latent 1,865
COIL COOLING PEAK: CFM 1,514, Sensible 32,385, Latent 1,865
COIL HTG. PEAK: CFM 971, Sensible 38,475

SHAH DESIGNS
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SAN JOSE, CA 95127
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SHAHDESIGN2015@gmail.com

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SINGLE FAMILY RESIDENCE
NO. 13685
STREET SYCAMORE AVE,
CITY SAN MARTIN, CA
ZIP CODE 95046

SHAH DESIGNS

DRAWN: AJ
CHECKED: BS
SCALE:
DATE: 16-12-2021

T2