

MEMORANDUM

Planning Department



Date: November 16, 2023
To: Zoning Administrator
From: Randy Baez, Associate Planner

Subject: **NEW DETACHED ACCESSORY DWELLING UNIT (P-MS23-0123)** – A Minor Site Development (MSD) Permit to develop a 1,083 square-foot, two-story, detached Accessory Dwelling Unit (ADU) up to 21 feet, 7 inches in height, within the rear yard of an existing 1,856 square-foot single-family dwelling on an 0.2-acre site in the R1-6 Single-Family Residential Zoning District located at 2387 Mattos Drive. Zoning Administrator approval is required for ADU'S over 1,000 square feet in size and over 20 feet in height. The project is categorically exempt from environmental review under the California Environmental Quality Act (CEQA) pursuant to CEQA Guidelines Section 15303 (Construction or Conversion of Small Structures).

Location: 2387 Mattos Dr. (APN: 8839031)

Zoning/GP: Single-Family Residential (R1-6) / Low Density Residential (LDR)

Application:

On June 12, 2023, Jake Dacy (on behalf of the property owner) submitted a Minor Site Development (MSD) Permit application to develop a two-story, 1,083 square-foot detached Accessory Dwelling Unit (ADU) within the rear yard of the 0.2-acre site. No improvements are proposed for the existing 1,856 square-foot single-family home at this time.

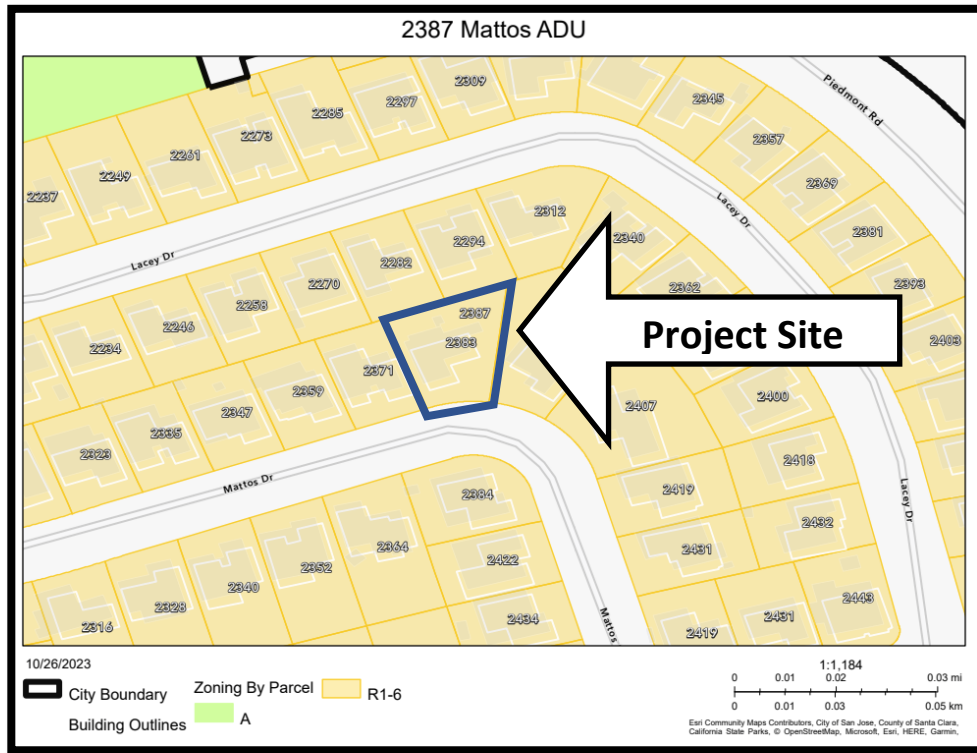
The proposed ADU will feature an 84 square-foot porch, 672 square feet of living space on the first floor and 327 square feet of living space on the second floor. Per Milpitas Municipal Code (MMC) Table XI-10-57.03(C)(2)(c), ADUs over 1,000 square feet in size and over 20 feet in height are subject to approval from the Zoning Administrator through an MSD Permit.

Due to Building & Safety requirements, the proposed ADU was given the address of 2387 Mattos Drive, while the address for the main dwelling is 2383 Mattos Drive.

The Project site is surrounded by residential uses to the north, south, east, and west, as demonstrated in Map 1: Project Zoning and Map 2: Aerial View.



Map 1: Project Zoning



Map 2: Aerial View



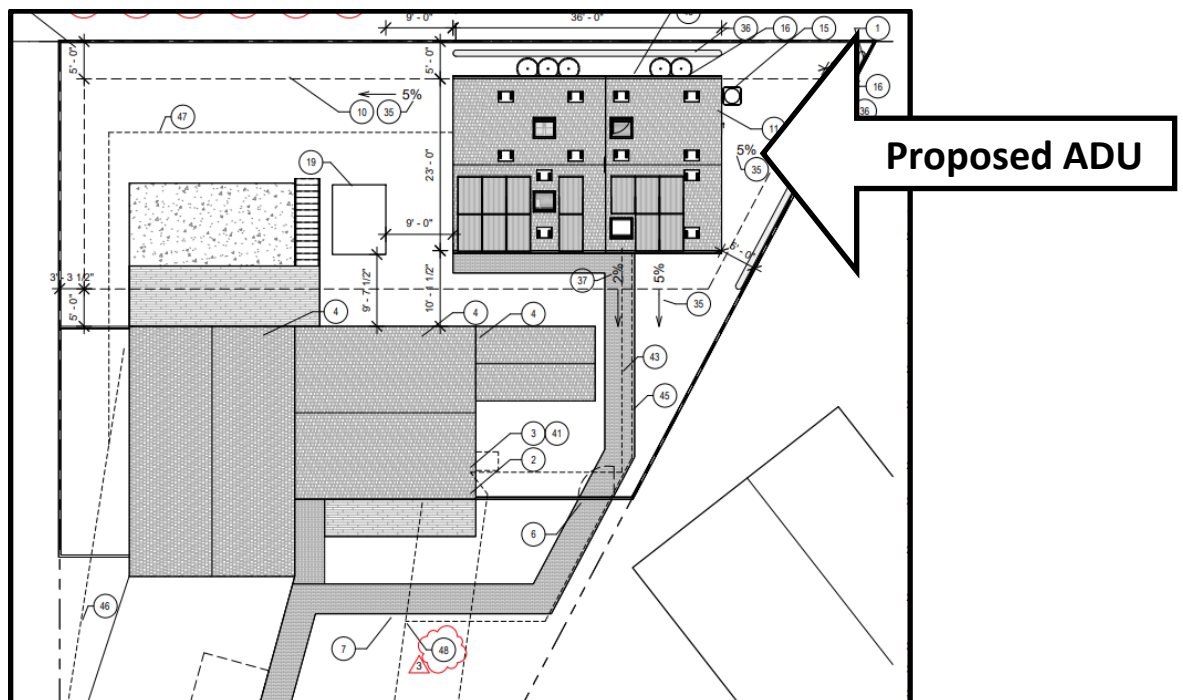
Table 1: Surrounding Zoning and Land Uses

	General Plan	Zone	Uses
Subject Site	Low Density Residential (LDR)	Single Family Residential (R1-6)	Single-Family Residential
North	Low Density Residential (LDR)	Single Family Residential (R1-6)	Single-Family Residential
South	Low Density Residential (LDR)	Single Family Residential (R1-6)	Single-Family Residential
East	Low Density Residential (LDR)	Single Family Residential (R1-6)	Single-Family Residential
West	Low Density Residential (LDR)	Single Family Residential (R1-6)	Single-Family Residential

Project Details

The 1,083 square-foot detached Accessory Dwelling Unit (ADU) is proposed in the northeast corner of the property. The ADU will feature a first floor of 672 square feet and 327 square feet on the second floor. No parking spaces would be required for the ADU, and no changes are proposed for the main dwelling. *Figure 1: Site Plan* shows the location of the proposed enclosure.

Figure 1: Site Plan



Analysis

The project site is in the Single Family Residential (R1-6) Zoning District and complies with most of the development standards of MMC Sec. XI-10-13.08 (ADU Regulations) as shown in *Table 2*. Detached ADUs with two bedrooms can be up to 1,000 square feet in size and 20 feet in height with limited review. The proposed ADU is 1,083 square feet and over 21 feet, 6 inches in height, which requires Zoning Administrator review per MMC Sec. XI-10-13.08-I.

Table 2: Detached ADU Development Standards

Standards	Required/Maximum	Proposed	Complies
Front Setback	20 feet	Approximately 90 feet	Yes
Side Yard Setback	4 feet	5 feet	Yes
Rear Yard Setback	4 feet	5 feet	Yes
Setback to Other Structures	6 feet	10 feet, 1.5 inches	Yes
Building Height	16 feet, up to 20 feet*	21 feet, 6.5 inches	No**
Building Size	1,000	1,068	No**
*	Building height allowed up to 18 feet if located within one-half mile walking distance of a major transit stop or a high-quality transit corridor; and allowed up to 20 feet if needed to accommodate a roof pitch on the ADU to match existing dwelling		
**	Requires Zoning Administrator approval		

Colors and Materials

The proposed ADU will feature a gray plaster exterior and asphalt shingle roof to match the existing single-family dwelling. The existing single-family dwelling, along with others within the vicinity, are currently two-story structures, which is consistent with the proposed detached two-story ADU. In order to preserve the privacy of the property and neighboring properties, frosted glass windows will be installed on the second story. *Figures 2 and 3* show the proposed floor plan, and *Figures 4 and 5* show the proposed elevations.

Figure 2: 1st Floor Plan

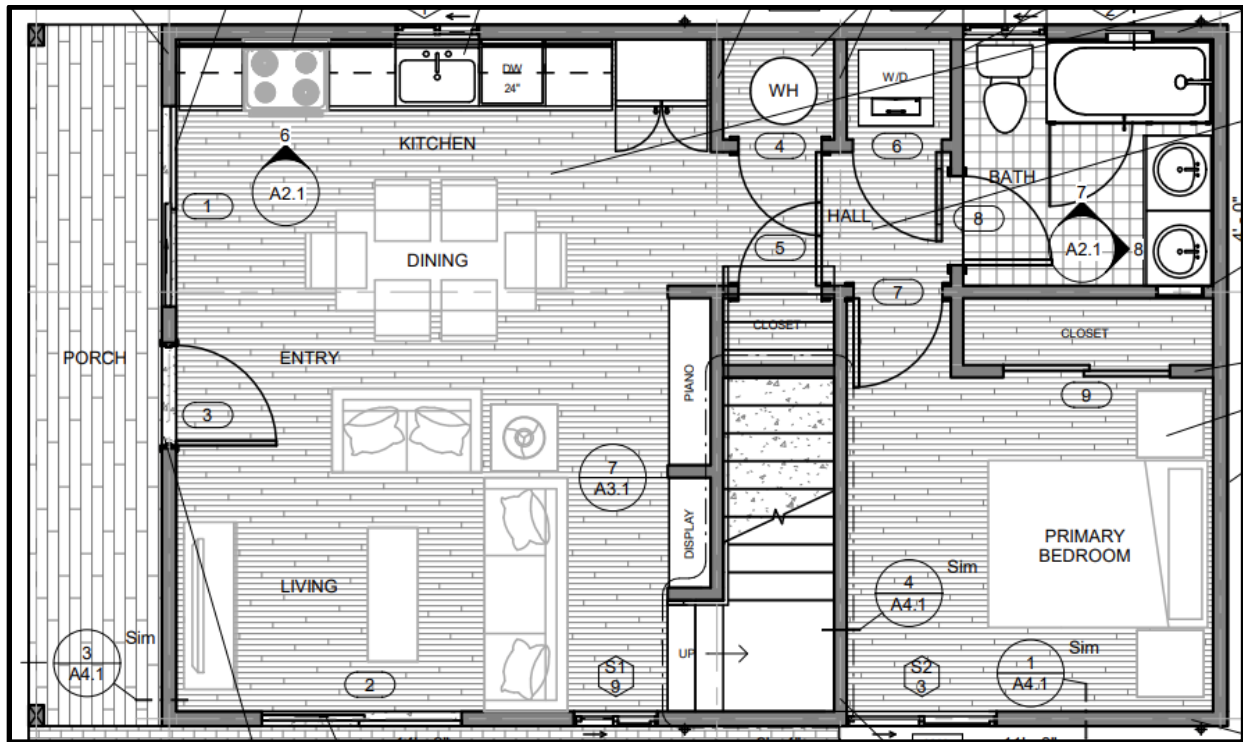


Figure 3: 2nd Floor Elevation

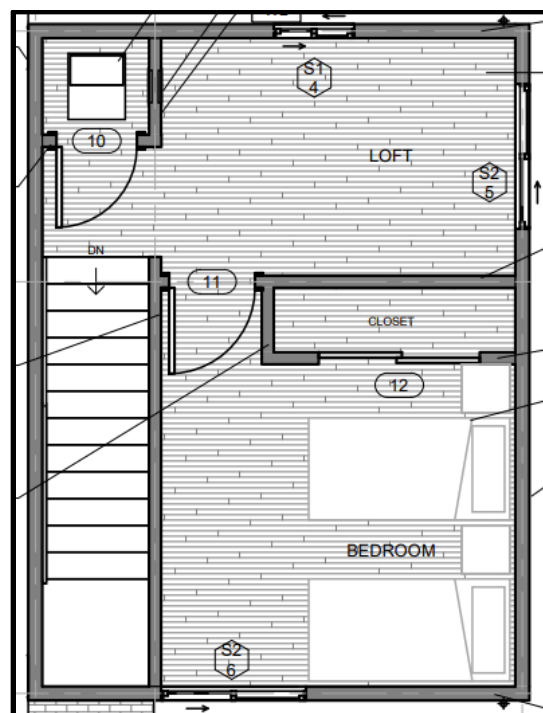
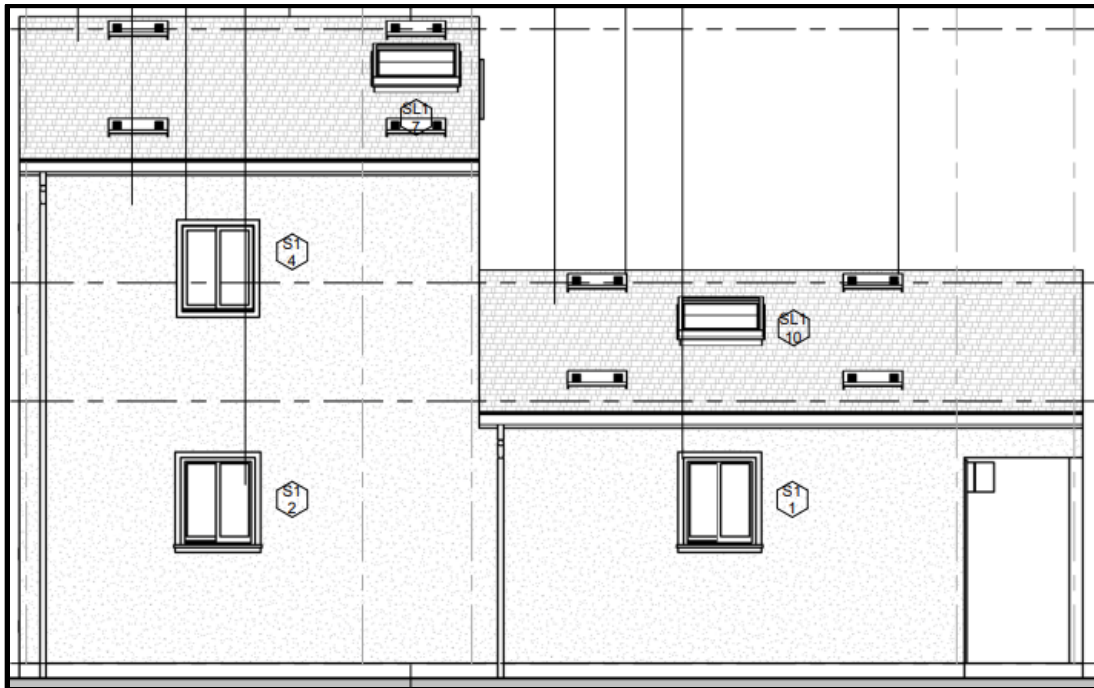


Figure 4: Front Elevation



Figure 5: Rear Elevation



Parking

Due to the project being located within one-half mile walking distance of public transit, no additional parking is required for the ADU. No other alterations are proposed for the main dwelling at this time. The property currently has a two-car garage and a driveway that can safely accommodate two vehicles for a total of 4 parking spaces. The site will remain compliant with MMC Sec. XI-10-53 (parking standards).

Landscaping

The applicant proposes to install vertical screening evergreen landscaping between the ADU and the two nearest residences to the north and east. This new landscaping will help provide additional privacy by creating a landscaped buffer between the residences. No trees need to be removed to develop this project.

Zoning Conformance

As proposed, the project and associated use are consistent with the purpose and intent of the Single Family Residential (R1-6) zoning district, which is intended to *“stabilize and protect the residential characteristics of the District and to promote and encourage a suitable environment for family life. The R1 District is intended for the suburban family home and the services appurtenant thereto,”* per MMC Sec. XI-10-4.01.

Findings for Approval:

In accordance with Section XI-10-57.03(G) of the Milpitas Municipal Code, the Zoning Administrator may consider and approve a Minor Site Development if the required findings can be made. Findings shall identify the rationale behind the decision to take a certain action and are analyzed below:

1. *The development recognizes and respects the nature of the neighborhood and site, development patterns, materials used, and the expectations of those who will see and use the building;*

The project is minimally visible to vehicles and pedestrians from the public right-of-way. The ADU has a proposed building height of 21 feet, 6.5 inches below the maximum height allowed within the R1-6 Zoning District. The two-story ADU is designed to be consistent with the main dwelling and other nearby residential structures. The ADU will be painted a gray-colored finish to match the existing main dwelling.

2. *The development assures that modifications satisfy functional requirements, and are screened with appropriate compatible materials; and*

The proposed two-story ADU was designed to have the majority of the square footage on the ground floor in order to maximize space and functionality. The ADU will complement the character of the neighborhood as its building materials will match the existing dwelling. Furthermore, the project would not require additional parking spaces, so the subject site would still meet and exceed minimum parking requirements.

3. *The development assures that the modifications will not interfere with the privacy, quiet enjoyment or view of the surrounding properties.*

The proposed two-story (ADU) is located within the rear yard of the site, but will be surrounded by vertical screening evergreen landscaping in order to provide a buffer between nearby residences. In addition, the Project will provide frosted windows on the second floor of the structure to not interfere with the privacy of the surrounding properties.

California Environmental Quality Act (CEQA):

The project is categorically exempt from further environmental review under the California Environmental Quality Act (CEQA) pursuant to CEQA Guidelines Section 15303 (Construction or Conversion of Small Structures). As proposed, the project is less than 10,000 square feet, located within an area where all public services and facilities are available to allow for maximum development permissible in the General Plan and in an area that is not environmentally sensitive.

Recommendation:

STAFF RECOMMENDS THAT the Zoning Administrator approve P-MS23-0123 to allow the development of a 1,083 square-foot Accessory Dwelling Unit (ADU) within the rear yard of an existing 1,856 square-foot residential building on an 0.2-acre site in the R1-6 Single Family Residential Zoning District located at 2387 and 2383 Mattos Dr., subject to the findings outlined in this report and the attached Conditions of Approval.

Attachments:

- A. Conditions of Approval*
- B. Project Plans*

CONDITIONS OF APPROVAL:

1. General Compliance. The applicant, including all successors in interest (collectively "Permittee") shall comply with each and every condition set forth in this Permit. This **Minor Site Development Permit No. MS23-0123** ("Permit") shall have no force or effect and no building permit shall be issued unless and until all things required by the below-enumerated precedent conditions have been performed or caused to be performed. **(P)**
2. Effective Date. Unless there is a timely appeal filed in accordance with the Milpitas Zoning Code, the date of approval of this Permit is the date on which the decision-making body approved this Permit. **(P)**
3. Acceptance of Permit. Should Permittee fail to file a timely appeal within twelve (12) calendar days of the date of approval of this Permit, inaction by Permittee shall be deemed to constitute each of the following: **(P)**
 - i. Acceptance of this Permit by Permittee; and
 - ii. Agreement by the Permittee to be bound by, comply with, and to do all things required of or by Permittee pursuant to all of the terms, obligations, and conditions of this Permit.
4. Permit Expiration. Pursuant to Section XI-10-64-06 of the Milpitas Zoning Code, this Permit shall become null and void if the activity permitted by this Permit is not commenced within two (2) years from the date of approval, or for a project submitted with a tentative map, within the time limits of the approved tentative map. Pursuant to Section XI-10-64.06(B) of the Milpitas Zoning Code, an activity permitted by this Permit shall be deemed to have commenced when the project: **(P)**
 - i. Completes a foundation associated with the project; or
 - ii. Dedicates any land or easement as required from the zoning action; or
 - iii. Complies with all legal requirements necessary to commence the use, or obtains an occupancy permit, whichever is sooner.
5. Time Extension. Pursuant to Section XI-10-64.07 of the Milpitas Zoning Code, unless otherwise provided by State law, Permittee shall have the right to request a one-time extension of the Permit if the request is made in writing to the Planning Department prior to the expiration date of the approval. **(P)**
6. Notice. Pursuant to California Government Code Section 66020, any protest filed in court relating to the imposition of fees, dedication, reservations, or other exactions to be imposed on the development project shall be filed within ninety (90) days after the date of the approval of this Permit. This provision serves as notice from the local agency to the Permittee that the ninety (90) day period in which the applicant may file a protest has begun under California Government Code Section 66020(d)(1). **(CA)**

7. Cost and Approval. Permittee shall fully complete and satisfy each and every condition set forth in this Permit and any other condition applicable to the project to the sole satisfaction of the City. Additionally, Permittee shall be solely responsible and liable for the cost to satisfy each and every condition. Permittee shall pay all required fees and charges to the City at the rate in effect at time of building permit issuance, or, the rate in effect when the fees and charges are due and paid in full to the City. There is no vesting of any fees or charges with the approval of this Permit. **(P)**
8. Conditions. Each and every condition set forth in this Exhibit shall apply to the project and continue to apply to the project so long as the Permittee is operating the project under the permits and approvals in this Permit. **(P)**
9. Compliance with Laws. The construction, use, and all related activity authorized under this Permit shall comply with all applicable local, state, and federal laws, rules, regulations, guidelines, requirements, and policies. **(CA/P)**
10. Previous Approvals. Permittee shall abide and continue to comply with all previous City approvals, permits, or requirements relating to the subject property, unless explicitly superseded or revised by this Permit. **(P)**
11. Indemnification. To the fullest extent permitted by law, Permittee shall indemnify, defend with counsel of the City's choosing, and hold harmless City, its City Council, its boards and commissions, officials, officers, employees, and agents from and against any and all claims, demands, obligations, damages, actions, causes of action, suits, losses, judgments, fines, penalties, liabilities, costs and expenses (including without limitation, attorney's fees, disbursements and court costs) of every kind and nature whatsoever which may arise from or in any manner relate (directly or indirectly) to (i) City's approval of the project, including but not limited to, the approval of the discretionary permits, maps under the Subdivision Map Act, and/or the City's related determinations or actions under the California Environmental Quality Act, and (ii) Permittee's construction, operation, use, or related activity under this Permit. This indemnification shall include, but not be limited to, damages awarded against the City, if any, costs of suit, attorneys' fees, and other expenses incurred in connection with such claim, action, causes of action, suit or proceeding whether incurred by applicant, City, and/or the parties initiating or bringing such proceeding. Permittee shall indemnify the City for all of City's costs, attorneys' fees, and damages which City incurs in enforcing the indemnification provisions set forth in this condition. Permittee shall pay to the City upon demand or, as applicable, to counsel of City's choosing, any amount owed pursuant to the indemnification requirements prescribed in this condition. **(CA)**
12. Written Response to Conditions. The Permittee shall provide a written response to the Conditions of Approval indicating how each condition has been addressed with the building permit application submittal. **(ALL)**
13. Revocation, Suspension, Modification. This Permit may be suspended, revoked, or modified in accordance with Section XI-10-63.06 of the Milpitas Zoning Code. **(P)**

14. Severability. If any term, provision, or condition of this Permit is held to be illegal or unenforceable by the Court, such term, provision, or condition shall be severed and shall be inoperative, and the remainder of this Permit shall remain operative, binding, and fully enforceable. **(CA)**
15. Permittee shall develop the approved project in conformance with the approved plans (date stamped November 16, 2023), approved by the Zoning Administrator in accordance with these Conditions of Approval. **(P)**
- Any deviation from the approved site plan, elevations, materials, colors, landscape plan, or other approved submittal shall require that, prior to the issuance of building permits, the Permittee shall submit modified plans and any other applicable materials as required by the City for review and obtain the approval of the Planning Director or Designee. If the Planning Director or designee determines that the deviation is significant, the owner or designee shall be required to apply for review and obtain approval of the Zoning Administrator or City Council, as applicable, in accordance with the Milpitas Zoning Code. **(P)**
16. Fire Department. The permittee shall comply with the requirements of the Fire Department and the California Fire Code, as may be amended by the City of Milpitas. Changes to the site plan and/or internal circulation shall be reviewed and approved by the Fire Department. **(F)**
17. Building Department. The permittee shall comply with the requirements of the Building, Safety and Housing Department. Building construction plans must be submitted for review and approval before construction is to commence. All applicable California Code of Regulations Title 24 and Milpitas Municipal Code requirements at the time of building permit application must be met in advance of any building permit approvals or related construction. **(B)**
18. Land Development Department. The project/development shall comply with the requirements of the Engineering Division. Changes to the site plan shall be reviewed and approved by the Engineering Division. **(LD)**

(P) = Planning

(PO) = Police

(F) = Fire Prevention

(B) = Building

(LD) = Land Development

(CA) = City Attorney

Jay Lee, AICP
Planning Director

Date: _____

PROJECT LOCATION

2383 MATTOS DRIVE, MILPITAS, CA 95035

APN

08839031

ZONING DISTRICT:

R1-6

LOT AREA:

8,712 SQUARE FEET

YEAR BUILT:

1970

GROSS FLOOR AREA:

PROPOSED ADU PORCH: 84.0 GSF
PROPOSED ADU FIRST FLOOR : 672.0 GSF
PROPOSED ADU 2ND FLOOR : 326.8 GSF
PROPOSED ADU TOTAL: 1,082.8 GSF

EXISTING BUILDING: 1,856.0 GSF
PROPOSED ADU : 1,082.8 GSF
PROPOSED TOTAL: 2,938.8 GSF

BED/BATH:

EXISTING BUILDING: 4/2.5
PROPOSED ADU: 2/1

STORIES:

EXISTING BUILDING: 2
PROPOSED ADU: 2

OCCUPANCY GROUP:

EXISTING BUILDING: R3
PROPOSED ADU: R3

CONSTRUCTION TYPE:

EXISTING BUILDING: VB
PROPOSED ADU: VB

SPRINKLERED

EXISTING BUILDING: NO
PROPOSED ADU: NO

SETBACK REQUIREMENTS:

LIMITED DETACHED ADU ON SINGLE FAMILY LOT:

REQUIRED ADU SIDE YARD SETBACK: 4'
PROPOSED ADU SIDE YARD SETBACK: 4'

REQUIRED ADU REAR YARD SETBACK: 4'
PROPOSED ADU REAR YARD SETBACK: 4'

REQUIRED ADU SETBACK FROM PRIMARY DWELLING UNIT: 6'
PROPOSED ADU SETBACK FROM PRIMARY DWELLING UNIT: 6'

FIRE RATED WALL AND OPENING ARE REQUIRED ON EITHER THE EXISTING HOUSE WALL OR ON THE ADU WALL IF THE SEPARATION DISTANCE BETWEEN THE TWO STRUCTURES IS LESS THAN 10'

HEIGHT REQUIREMENTS:

PERMITTED 2-STORY DETACHED ADU:

PERMITTED ADU HEIGHT ABOVE GRADE: 28' - 0"
PROPOSED ADU HEIGHT ABOVE GRADE: 21' - 6 1/2"

ADU PARKING REQUIREMENT AND EXEMPTIONS:

PARKING EXEMPTIONS FOR AN ADU (MUNICIPAL CODE XI-10-13.08 (H): NO PARKING IS REQUIRED FOR AN ADU THAT MEETS ANY OF THE FOLLOWING CRITERIA.
1. THE ADU IS LOCATED WITHIN 0.5 MILES OF A PUBLIC BUS STOP OR RAIL STATION (SEE WWW.VTA.ORG), AND THE PATH OF TRAVEL IS PUBLICLY ACCESSIBLE.

DISTANCE FROM PROPOSED ADU TO SOUTH TEMPLE DRIVE AND EDEL DRIVE BUS STOP: .45 MILES (VTA LINE 246)

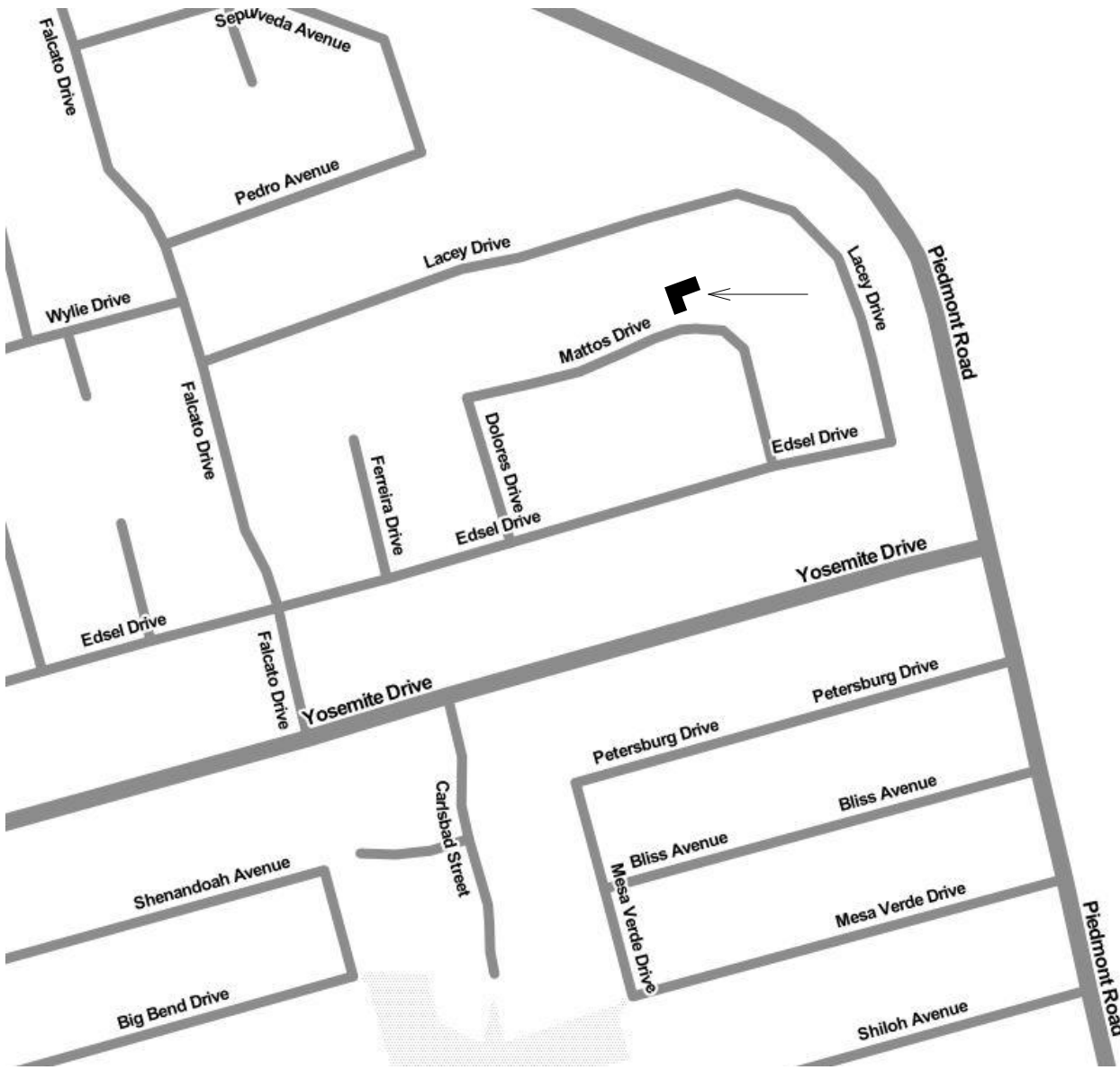


PROJECT DESCRIPTION

THE PROJECT CONSISTS OF A NEW DETACHED 1,082 SQFT ADU IN THE REAR YARD OF THE PROPERTY AND DEMOLITION OF (2) SHEDS IN THE REAR.

NO NEW GAS METER WILL BE INSTALLED UNDER THIS PERMIT.

PROJECT DESCRIPTION 4



VICINITY MAP 3

2023 MILPITAS MUNICIPAL CODE
2022 CALIFORNIA RESIDENTIAL CODE & BULLETINS (CRC)
2022 CALIFORNIA ELECTRICAL CODE & BULLETINS (CEC)
2022 CALIFORNIA MECHANICAL CODE & BULLETINS (CMC)
2022 CALIFORNIA PLUMBING CODE & BULLETINS (CPC)
2022 CALIFORNIA ENERGY CODE & BULLETINS (CEC)
2022 CALIFORNIA FIRE CODE & BULLETINS (CFC)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE & BULLETINS (CALGREEN)

APPLICABLE CODES 2

PROJECT INFORMATION	A0.0
GENERAL INFORMATION	A0.1
BLUEPRINT FOR A CLEAN BAY	A0.2
CALGREEN MANDATORY MEASURES	A0.3
T24 REPORT	A0.4
T24 REPORT	A0.5
RESIDENTIAL MEASURES SUMMARY	A0.6
SITE PLAN	A1.0
FLOOR PLANS / LIGHTING / ELEC / DOORS / WINDOWS	A2.1
ELEVATIONS / SECTIONS	A3.1
DETAILS	A4.1
SKYLIGHT DETAILS	A4.2
TITLE SHEET	S1.0
FOUNDATION PLAN	S2.0
SECOND FLOOR FRAMING PLAN	S2.1
ROOF FRAMING PLAN	S2.2
FOUNDATION DETAILS	S3.0
FOUNDATION AND STAIR DETAILS	S3.1
SHEAR WALL DETAILS	S4.0
SHEAR WALL AND ROOF FRAMING DETAILS	S4.1

THE FOLLOWING ARE FEATURES THAT MUST BE INSTALLED AS CONDITION FOR MEETING THE MODELED ENERGY PERFORMANCE FOR THIS COMPUTER ANALYSIS:

- INSULATION BELOW ROOF DECK
- NEEA HEAT PUMP WATER HEATER BRAND (RHEEM), MODEL NAME (PROPH50 T2 RH375-15) OR EQUIVALENT TO BE INSTALLED AS SPECIFIED ON THE T-24 ENERGY COMPLIANCE FORMS.

REQUIRED SPECIAL FEATURES 8

THE FOLLOWING IS A SUMMARY OF THE FEATURES THAT MUST BE FIELD-VERIFIED BY A CERTIFIED HERS RATER AS A CONDITION FOR MEETING THE MODELED ENERGY PERFORMANCE FOR THIS COMPUTER ANALYSIS. ADDITIONAL DETAIL IS PROVIDED IN THE BUILDNG TABLES BELOW. REGISTERED CF2RS AND CF3RS ARE REQUIRED TO BE COMPLETED IN THE HERS REGISTRY:

- QUALITY INSULATION INSTALLATION (QII)
- INDOOR AIR QUALITY VENTILATION
- MINIMUM AIRFLOW
- VERIFIED SEER/SEER2
- VERIFIED REFRIGERANT CHARGE
- FAN EFFICACY WATTS/CFM
- VERIFIED HSPF
- VERIFIED HEAT PUMP RATED HEATING CAPACITY
- DUCT LEAKAGE TESTING

HERS FEATURE SUMMARY 7

THE FOLLOWING ITEMS SHALL BE SUBMITTED AS DEFERRED SUBMITTALS:

- SOLAP PANEL SUBMITTAL

NOTE: MINIMUM 2.04 KW PV SYSTEM (AS PER T-24 ENERGY COMPLIANCE FORM) WILL BE SUBMITTED UNDER SEPARATE PERMIT.

NOTE: THE PHOTOVOLTAIC PLANS SHALL BE SUBMITTED AND APPROVED PRIOR TO THE ROUGH ELECTRICAL INSPECTION. THIS PERMIT WILL NOT BE FINALIZED UNTIL THE PHTOVOLTAIC PERMIT IS FINALIZED.

DEFERRED SUBMITTALS 6

BUILDING INFORMATION 5

SHEET INDEX 1

DESIGN EVEREST
CONSULTING ENGINEERS
365 FLOWER LANE
MOUNTAIN VIEW, CA 94043
PHONE: (888) 311-3015 FAX: (650) 695-1801

2387 MATTOS DRIVE
ADU BUILDING PERMIT

REV	DATE	REMARKS
0	02.14.2023	BUILDING PERMIT
1	05.13.2023	REVISION 1
2	07.24.2023	REVISION 2
3	10.04.2023	REVISION 3

LICENSED ARCHITECT
NATHAN CONRAD
C36505
5-31-2025
STATE OF CALIFORNIA

SIGN
DATE:

DATE:

SCALE:

DRAWN BY: NC

CKD BY: NC

PROJECT#: 202212048

A0.0
PROJECT
INFORMATION

APPLIANCES											
1.	GENERALLY, THIS EQUIPMENT IS DELIVERED FACTORY DIRECT, MOUNTING & CONNECTIONS NOT INCLUDED. GENERAL CONTRACTOR SHALL MOUNT AND MAKE UP ALL REQUIRED CONNECTIONS TO MAKE THE EQUIPMENT FUNCTION PROPERLY.	19.	ANY UNCERTAINTY AND/OR DISCREPANCY CONCERNING PRODUCT/MATERIAL TYPE SHALL BE VERIFIED W/ THE ARCHITECT.	20.	DEFINITIONS USED IN THE DRAWINGS: SIMILAR: COMPARABLE CHARACTERISTICS FOR THE CONDITION NOTED. DIFFERENCES CAN BE INFERRED FROM OTHER INFORMATION INDICATED. VERIFY DIMENSIONS AND ORIENTATIONS W/ ARCH IN FIELD PRIOR TO CONSTRUCTION. AS REQUIRED: AS REQUIRED BY REGULATORY REQUIREMENTS, BY REFERENCED STANDARDS, BY EXISTING CONDITIONS, BY GENERALLY ACCEPTED CONSTRUCTION PRACTICES, OR BY THE CONTRACT DOCUMENTS. TYPICAL: IDENTICAL FOR ALL SUCH CONDITIONS, UNLESS OTHERWISE NOTED. CONTRACTOR: THE GENERAL CONTRACTOR OR ANY SUBCONTRACTORS HIRED INDIVIDUALLY OR INDEPENDENTLY BY THE OWNER. ALL REFERENCES TO 'EXISTING' ARE REFERRING TO EXISTING CONDITIONS.	4.	ALL REMAINING WALLS AND CEILINGS TO HAVE EGGSHELL FINISH, U.O.N.	7.	FINISH LEVEL OF CARPET AND HARD SURFACE MUST BE FLUSH. FLOORING CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR DETERMINING CORRECT INSTALLATION OF MATERIAL TO MEET THIS OBJECTIVE.	A.	G.C. SHALL PROVIDE SAFETY GLAZING IN ALL LOCATIONS REQUIRED BY CBC SEC. 2406 AND AS REQUIRED BY CHAPTER 7.
CARPET		20.	PROVIDE ACCESS PANELS AS REQUIRED. COORDINATE LOCATIONS, SIZES, AND DETAILS FOR ACCESS PANELS AND SUBMIT FOR ARCHITECT'S APPROVAL.	21.	JOINT SEALERS SHALL BE REQUIRED AT THE INTERSECTION OF ALL DISSIMILAR MATERIALS IN INTERIOR AND EXTERIOR CONDITIONS.	9.	ALL TRIM, CASING, AND BASE TO HAVE SEMI-GLOSS FINISH, U.O.N.	8.	A GROUT RELEASE IS RECOMMENDED TO PREVENT FINELY POWDERED PIGMENTS FROM LODGING IN THE PORES OF THE TILE SURFACE.	B.	GC SHALL INCLUDE IN BID ALL LIGHT FIXTURES, WIRING, AND ASSOCIATED SYSTEMS FOUND IN ELECTRICAL, ARCHITECTURAL, AND ALL OTHER DRAWINGS AND SPEC, INCLUSIVE, TYP.
1.	ALL MATERIAL SHOULD BE ORDERED AT LEAST TEN WEEKS PRIOR TO INSTALLATION TO ENSURE TIMELY DELIVERY.	22.	ARCHITECTURAL, MECHANICAL, AND ELECTRICAL PENETRATIONS OF THE BUILDING ENVELOPE INCLUDING EXTERIOR WINDOWS, GRILLES, HVAC DUCTWORK, AND CONDUIT AS REQUIRED THROUGH THE EXTERIOR WALLS, ROOF DECKS, VERTICAL ROOF AND MANSARD WALLS SHALL REQUIRE MECHANICAL FLASHING IN ADDITION TO APPROPRIATE EXTERIOR SEALANTS TO PROVIDE ENSURE WATERTIGHT CONDITIONS AT THESE LOCATIONS.	24.	SPLASHBLOCKS TO BE PLACED UNDER RAINWATER LEADERS, TYP., INCLUDING AT COURTYARD PLANTERS.	11.	ALL COLORS MUST BE SUBMITTED TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.	9.	ALUMINUM FINISH SCHLUTER - PROFILE SCHIENE OR RENO TK - TO BE USED AS TRANSITIONS BETWEEN TILE AND CARPET.	C.	GC SHALL INCLUDE COORDINATION OF LIGHT FIXTURES, MECHANICAL DUCTWORK, AND REGISTERS INALL CEILINGS. TYP. MINOR VARIATIONS IN LOCATIONS OF ALL ABOVE SYSTEMS SHALL BE INCLUDED IN THE BID.
2.	VERIFY ALL LEAD TIMES FOR ALL MATERIALS TO ENSURE TIMELY INSTALLATION.	25.	ALL PIPING, CONDUITS, AND DUCTWORK SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED OTHERWISE.	26.	IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE, FURNISH AND INSTALL ALL FRAMING, BACKING AND DEADWOOD REQUIREMENTS FOR EQUIPMENT AND MATERIALS INSTALLED IN THE BUILDING.	12.	ALL GRILLES SHOULD BE PAINTED TO MATCH SURROUNDING SURFACE COLOR.	10.	THE MINIMUM SIZE SCHLUTER NECESSARY TO CREATE A FLUSH TRANSITION SHOULD BE USED TO MAKE AS INCONSPICUOUS AS POSSIBLE.	D.	ALL LIGHTS TO BE LED LIGHTS.
3.	CARPET INSTALLER TO PROVIDE SEAMING PLAN TO DESIGNER AND CLIENT FOR APPROVAL PRIOR TO ORDERING CARPET. DO NOT CROSS SEAM OR SUBSTITUTE MANUFACTURERS.	26.	IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE, FURNISH AND INSTALL ALL FRAMING, BACKING AND DEADWOOD REQUIREMENTS FOR EQUIPMENT AND MATERIALS INSTALLED IN THE BUILDING.	27.	CONTRACTOR SHALL PROVIDE ALL NECESSARY BACKING AND/OR BLOCKING FOR ALL ORNAMENTAL LIGHT FIXTURES, EQUIPMENT, FIXED DECORATIVE ELEMENTS, AND WINDOW TREATMENTS WHERE APPLICABLE.	13.	REFER TO MECHANICAL, ELECTRICAL, AND FIRE PROTECTION DRAWINGS AND SPECIFICATIONS FOR THE DESIGN OF THESE SYSTEMS, SWITCHES, OUTLETS, FIXTURES, DUCTS, ETC.	12.	INSTALL TILE IN A PATTERN AND DIRECTION AS SHOWN IN DRAWINGS.	E.	VERIFY & UPGRADE ELECTRICAL OUTLETS TO AFCI, TYP.
4.	ALL SEAMS SHALL BE SECURED ACCORDING TO MANUFACTURERS RECOMMENDATIONS.	28.	PROVIDE AND COORDINATE LOCATION AND TYPE OF BLOCKING / BACKING IN PARTITIONS BEHIND ALL WALL MOUNTED ITEMS. REVIEW ALL BLOCKING W/ ARCHITECT IN FIELD PRIOR TO COVERING W/ OTHER MATERIAL.	29.	ALL CHANGES IN FLOOR MATERIAL OCCUR AT THE CENTERLINE OF DOOR OR FRAMED OPENING UNLESS OTHERWISE INDICATED ON THE DRAWINGS.	3.	VERIFY FUTURE QUANTITIES PRIOR TO ORDERING.	13.	INSTALL FLOOR TILE INTO RECESS AND UNDER EQUIPMENT WHERE APPLICABLE.		
5.	SEAM SEALER MUST BE USED ON CARPET.	29.	ALL CHANGES IN FLOOR MATERIAL OCCUR AT THE CENTERLINE OF DOOR OR FRAMED OPENING UNLESS OTHERWISE INDICATED ON THE DRAWINGS.			4.	NO SUBSTITUTIONS MAY BE MADE FOR SPECIFIED LIGHT FIXTURES WITHOUT WRITTEN APPROVAL FROM ARCHITECT AND CLIENT.	14.	MINIMIZE THE NUMBER OF SMALL CUT TILES WHENEVER POSSIBLE.		
6.	CARPET, WHEN INSTALLED, MUST BE COMPLETELY PROTECTED WITH POLY-TAC.					5.	ALL CEILING ELEMENTS SHOULD BE ORDERED 12 WEEKS PRIOR TO INSTALLATION TO ENSURE TIMELY DELIVERY.	15.	REFER TO MFG. RECOMMENDATIONS FOR GROUT JOINT SIZES. THE MINIMUM SIZE JOINT SHALL APPLY.		
7.	INSTALL CARPET FLAT, LEVEL, AND SECURE USING DIRECT GLUE DOWN METHOD AND MANUFACTURERS RECOMMENDED GUIDELINES.					6.	LIGHT SWITCHES SHOULD CONFORM TO ALL APPLICABLE CODE REQUIREMENTS.				
8.	ALL FLOOR OUTLETS OR SIMILAR DEVICES SHALL BE INSTALLED FOLLOWING CARPET INSTALLATION. INSTALLER TO COORDINATE CUTTING OF CARPET FOR FLOOR OUTLETS WITH ELECTRICAL CONTRACTOR.					7.	LIGHT SWITCHES SHOWN ADJACENT TO ONE ANOTHER SHALL BE GANGED WITH SINGLE DECORATIVE STAINLESS STEEL PLATES.				
9.	DO NOT BEGIN INSTALLATION UNTIL PAINTING AND FINISH WORK ARE COMPLETE.					8.	ELECTRICIAN SHALL DETERMINE WHETHER ELECTRONIC OR MAGNETIC DIMMERS ARE REQUIRED FOR LOW VOLTAGE LIGHT FIXTURES.				
CONTRACTOR / CONSTRUCTION						9.	CONTRACTOR IS RESPONSIBLE FOR ADDITIONAL OUTLETS REQUIRED BY CODE.				
1.	INSTALL ALL WORK PLUMB, LEVEL, SQUARE, TRUE, AND IN PROPER ALIGNMENT.					10.	CONTRACTOR TO DETERMINE EQUIPMENT REQUIRING SOLE DEDICATION OF A CIRCUIT.				
2.	GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL BONDS, CASH DEPOSITS, ETC. THAT THE CITY OR JURSDICTION WILL REQUIRE TO FACILITATE CONSTRUCTION OF THE PROJECT.					11.	VERIFY THE LOCATION OF REMOTE POWER PANELS, DISCONNECT SWITCHES, SPECIAL PANELS, THERMOSTATS, ALARMS, OR ANY DEVICE EXPOSED TO VIEW WILL NOT CONFLICT WITH ART OR CABINETRY AS SHOWN IN THESE DRAWINGS. CONTACT T+C ARCHITECTURE AND INTERIOR DESIGN IMMEDIATELY IF DISCREPANCIES ARISE.				
3.	CONTRACTOR SHALL OBTAIN ALL PERMITS AND INSPECTIONS AND WILL COMPLY WITH ALL APPLICABLE CODES, LAWS, ORDINANCES, RULES, AND REGULATIONS OF ALL PUBLIC AUTHORITIES (FEDERAL, STATE, OR LOCAL) GOVERNING THE WORK. THE MOST STRINGENT SHALL APPLY.					12.	ALL OUTLETS TO HAVE WHITE FINISH.				
4.	THE GENERAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL OTHER PERMITS REQUIRED BY LAW FOR THE EXECUTION OF THIS WORK UNLESS NOTED OTHERWISE. THE BASIC BUILDING PERMIT WILL BE OBTAINED AND PAID FOR BY THE OWNER. ALL TRADE PERMITS, IF REQUIRED BY JURISDICTION AUTHORITIES, AND FEES SHALL BE PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL ALSO OBTAIN AND PAY CERTIFICATES, INSPECTIONS, AND OTHER LEGAL FEES REQUIRED, BOTH PERMANENT AND TEMPORARY, INCLUDING PLUMBING, ELECTRICAL, AND HIGHWAY PERMITS UNLESS OTHERWISE SPECIFICALLY PROVIDED.					13.	OWNER TO VERIFY ELECTRICAL OUTLET LOCATIONS.				
5.	PRIOR TO BIDDING, THE GENERAL CONTRACTOR AND ALL SUB- CONTRACTORS SHALL VISIT THE SITE AND BECOME ACQUAINTED WITH ALL CONDITIONS RELATING TO THE CONSTRUCTION AND COMPLETION OF THE PROJECT AND THE EMPLOYMENT OF LABOR THEREON. BIDDERS AND THEIR SUB- CONTRACTORS SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT.					14.	ALL OUTLETS TO BE AT STANDARD HEIGHT, U.O.N.				
6.	EACH SUBCONTRACTOR MUST BE A SPECIALIST IN THEIR FIELD. EACH SUBCONTRACTOR SHALL, PRIOR TO THE SUBMISSION OF HIS/HER BID OR PERFORMANCE OF WORK, NOTIFY THE GENERAL CONTRACTOR OF ANY WORK CALLED OUT IN THE DRAWINGS IN HIS/HER TRADE THAT CANNOT BE FULLY GUARANTEED OR CONSTRUCTED ACCORDING TO THE ARCHITECT'S DESIGN INTENT.					SITE					
7.	THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS FOR BUILDING AND SITE PRIOR TO PROCEEDING WITH THE WORK.					1.	ANY SURVEY MONUMENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE PRESERVED OR RESET BY A REGISTERED CIVIL ENGINEER OR A LICENSED LAND SURVEYOR.				
8.	GENERAL CONTRACTOR TO OBTAIN CONTACT INFORMATION FOR THE FOLLOWING UTILITIES: WATER, SEWER, GAS, PHONE, POWER, CATV.					2.	HAZARDOUS MATERIALS: IN THE EVENT THAT HAZARDOUS MATERIALS ARE ENCOUNTERED IN THE PREMISES DURING THE EXECUTION OF THE WORK, NOTIFY THE OWNER IMMEDIATELY AND DO NOT PROCEED UNTIL DIRECTED. FOLLOW ALL CAL OSHA REQUIREMENTS.				
9.	PRIOR TO CONSTRUCTION, CONTRACTORS SHALL VERIFY SIZES, ARRANGEMENTS, AND CLEARANCES OF FIXTURES, EQUIPMENT, AND APPLIANCES SPECIFIED BY ARCHITECT, BY OTHERS, OR N.I.C.					3.	THE GENERAL CONTRACTOR SHALL REFER TO THE SOILS REPORT PROVIDED AND FOLLOW THE RECOMMENDED MEASURES CONTAINED THEREIN. THE GENERAL CONTRACTOR SHALL CONTACT THE SOILS ENGINEER AND REQUEST AN ON SITE REVIEW AND APPROVAL OF THE EXCAVATION AND OTHER WORK ELABORATED IN THE SOILS REPORT, INCLUDING INSPECTION OF THE FOUNDATION DRAINAGE SYSTEM, SLAB VAPOR BARRIER, AND VERTICAL WALL WATERPROOFING.				
10.	CONTRACTOR SHALL VERIFY QUANTITY, SIZE, AND LOCATION OF ALL ITEMS AFFECTING WORK, INCLUDING, BUT NOT LIMITED TO PLUMBING FIXTURES, ELECTRICAL, RECEPTACLES, LIFE SAFETY EQUIPMENT, DUCTWORK, APPLIANCES, AND EQUIPMENT BEING PROVIDED BY OTHERS. T+C ARCHITECTURE AND INTERIOR DESIGN IS TO BE NOTIFIED OF ANY ITEMS IN CONFLICT PRIOR TO CONSTRUCTION.					4.	GENERAL CONTRACTOR TO PROVIDE ALL REQUIRED SURVEYS.				
11.	CONTRACTOR SHALL COMPLY WITH APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND REGULATIONS REGARDING SAFETY OR PERSONS, PROPERTY, AND ENVIRONMENTAL PROTECTION.					5.	OFF SITE PARKING FOR SITE WORKERS IS GENERAL CONTRACTOR'S RESPONSIBILITY.				
12.	ALL FINISHES SHALL MEET OR EXCEED REQUIREMENTS OF LOCAL CODES.					6.	GENERAL CONTRACTOR IS RESPONSIBLE FOR SITE SURVEYING AND LAYOUT. OWNER TO PROVIDE ONE (1) BENCHMARK FOR GENERAL CONTRACTOR USE.				
13.	GENERAL CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL PURCHASES FOR THE ENTIRE PROJECT, U.O.N.					7.	COORDINATE ALL WORK AS REQUIRED BY THE CONTRACT DOCUMENTS WITH THE OWNER, INCLUDING TEMPORARY STORAGE, LOADING, KEYING SYSTEMS, ETC., AND PROVIDE NECESSARY BARRICADES, SIGNS, BARRIERS, AND PROTECTION.				
14.	VERIFY ALL MANUFACTURERS LEAD TIMES AT BID STAGE AND PURCHASE ALL MATERIALS ACCORDINGLY. SUBSTITUTIONS MAY NOT BE MADE WITHOUT WRITTEN CONSENT FROM T+C ARCHITECTURE AND INTERIOR DESIGN AND CLIENT.					8.	GENERAL CONTRACTOR TO PROVIDE TRAFFIC CONTROL & OFF-SITE PARKING DURING CONSTRUCTION.				
15.	PRIOR TO PURCHASE OR INSTALLATION OF ANY FINISH, SUBMIT (3) SAMPLES TO ARCHITECT FOR REVIEW. ALLOW TIME FOR SUBMITTAL REVIEW AND RESUBMITTALS IF REQUIRED.					9.	ANY WASTE AND REFUSE CAUSED BY THE CONTRACTOR SHALL BE REMOVED FROM THE PREMISES AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL REGULATIONS.				
16.	UNLESS QUALIFIED, NO PRODUCT SUBSTITUTIONS OR 'OR EQUAL' PRODUCTS, EQUIPMENT OR MATERIALS SHALL BE ALLOWED.					10.	GENERAL CONTRACTOR WILL BE RESPONSIBLE TO PROVIDE WATER, SEWER, POWER AND TELEPHONE CONNECTIONS FOR THE CONSTRUCTION TRAILER.				
17.	T+C ARCHITECTURE AND INTERIOR DESIGN IS NOT RESPONSIBLE FOR ANY RESELECTS REQUIRED DUE TO MATERIALS NOT BEING PURCHASED PRIOR TO MANUFACTURERS GIVEN LEAD TIMES. CONTRACTORS WILL BE RESPONSIBLE TO RESELECT MATERIAL AND SUBMIT TO T+C ARCHITECTURE AND INTERIOR DESIGN FOR APPROVAL WITHOUT IMPACTING THE SCHEDULE.					11.	GENERAL CONTRACTOR SHALL RESEARCH AND VERIFY ALL TRASH, DEBRIS & RECYCLING REQUIREMENTS (INCLUDING TRASH SERVICE DURING CONSTRUCTION) FOR THE CITY IN WHICH THIS WORK WILL BE PERFORMED AND SHALL INCLUDE SUCH COSTS IN THIS PROPOSAL.				
18.	FLAME CERTIFICATES ARE TO BE OBTAINED FOR ALL FINISH MATERIALS IN DUPLICATE BY CONTRACTOR. SUBMIT (1) ONE COPY OF EACH TO T+C ARCHITECTURE AND INTERIOR DESIGN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO THE COMMENCEMENT OF WORK AND/OR ORDERING OF MATERIALS. ANY VARIANCES WHICH MAY AFFECT THE WORK ARE TO BE REPORTED TO THE ARCHITECT FOR RESOLUTION BEFORE PROCEEDING.					STONE / TILE					
						1.	ALL MATERIALS SHOULD BE ORDERED AT LEAST TEN WEEKS PRIOR TO INSTALLATION TO ENSURE TIMELY DELIVERY.				
						2.	VERIFY LEAD TIMES FOR ALL MATERIALS TO ENSURE TIMELY INSTALLATION.				
						3.	ALL STEPS NECESSARY TO CREATE AN EXTREMELY FLUSH FLOOR ARE TO BE TAKEN BY CONTRACTOR. NO THRESHOLD SHOULD BE GREATER THAN 1/4".				
						4.	MITER CORNERS, TYP.				
						5.	AFTER FLOORS ARE CLEANED AND SEALED, THEY MUST BE PROTECTED PRIOR TO FURNITURE INSTALLATION.				
						6.	STONE AND GROUT TO BE SEALED WITH MIRACLE SEALANTS 511 POROUS PLUS.				
						WALLS					
						1.	ALL WALLS TO HAVE AT LEAST A LEVEL 4 SMOOTH FINISH, U.N.O.				
						2.	ALL OUTSIDE EDGES TO HAVE A SQUARE PROFILE CORNER BEAD, U.O.N.				
						3.	SEE SHEETS A10.0'S FOR DESCRIPTIONS OF WALL OR FLOOR/CEILING ASSEMBLY DETAILS.				
						WALL / WINDOW COVERING					
						1.	ALL WALLCOVERING PRIMERS, ADHESIVES, SEALERS, SIZING, AND INSTALLATION METHODS SHALL BE PER WALLCOVERING MANUFACTURERS RECOMMENDATIONS.				
						2.	WALLCOVERING TO BE INSTALLED SECURE AND FLAT, WITHOUT WRINKLES, GAPS, OR OVERLAPS. SEAMS SHALL BE TIGHT AND SECURE. CLEAN WALLCOVERING TO BE FREE OF DIRT AND GLUE.				
						3.	WALL COVERING SEAMS SHOULD BE NO CLOSER THAN SIX INCHES FROM THE OUTSIDE CORNERS AND FIVE INCHES FROM THE INSIDE CORNERS. HORIZONTAL SEAMS ARE NOT ACCEPTABLE. U.O.N.				
						4.	ALL SEAMS SHALL BE VERTICAL AND PLUMB, WITH PATTERN MATCHED TO THE GREATEST DEGREE POSSIBLE WHERE PATTERN OCCURS.				
						5.	WHERE WALLCOVERING OCCURS, WALL TO RECEIVE LEVEL 5 FINISH.				
						6.	PROVIDE WINDOW BLINDS FOR ALL WINDOWS AND DOORS.				
						WOOD / FINISH CABINETRY					
						1.	ALL STAINED WOOD TO HAVE SATIN MATTE FINISH - DO NOT USE LACQUER, U.O.N.				
						2.	TYPES OF ARCHITECTURAL WOODWORK SHALL INCLUDE THE FOLLOWING: INTERIOR STANDING AND RUNNING TRIMS, RAILS, BASE, DOOR CASING, DOOR FRAMES, CHAIR RAILS, DOORS, WOOD CABINETS, BUILT-IN DESKS, WOOD COUNTER APRONS, WOOD BULKHEADS, FLUSH WOOD PANELING, AND RAISED WOOD / APPLIED WOOD PANELING.				
						3.	FULL LENGTH CONTINUOUS BOARDS SHALL BE USED WHENEVER APPLICABLE OR SPECIFICALLY NOTED.				
						4.	ALL JOINTS SHALL BE TIGHT AND TRUE AND SECURELY FASTENED. CORNERS SHALL BE NEATLY MITERED, BUTTED, OR COPED WITH NAILS SET AND SURFACES FREE OF TOOL MARKS.				
						5.	ALL NAILING SHALL BE DONE WITH FINISH NAILS WHERE PAINT OR STAIN IS TO COVER.				
						6.	ALL WOOD GRAIN IS TO BE LAID IN THE DIRECTIONS INDICATED ON ELEVATIONS AND DETAILS. CONTACT T+C ARCHITECTURE AND INTERIOR DESIGN WITH ANY CONFLICTS OR DISCREPANCIES.				
						7.	STAIN SUBMITTAL MUST BE REPRESENTATIVE OF ALL POSSIBLE COLOR VARIANCES OR MATERIAL APPROVED COLOR VARIATIONS WILL DETERMINE COMPLIANCE WITH THE SPECIFIED MATERIAL. INSTALLATION OF MATERIAL THAT DEVIATES FROM THE APPROVED SAMPLES WILL BE REQUIRED TO BE REMOVED AND REPLACE BY CONTRACTOR.				
						8.	CONTRACTOR TO SUPPLY SHOP DRAWINGS FOR ALL MILLWORK.				
						EQUIPMENT / APPLIANCES					
						1.	KITCHEN APPLIANCES INSTALLED AND PURCHASED BY CONTRACTOR.				
						2.	REFER TO MFR. SPECS. FOR REQUIREMENTS FOR ALL APPLIANCES.				
						3.	ALL AV EQUIPMENT TO BE SELECTED AND PROVIDED BY OTHERS.				
						4.	ALL WIRING / CABLING REQUIRED FOR ANY AND/OR COMPUTER EQUIPMENT TO BE DETERMINED BY QUALIFIED CONSULTANT. LOCATIONS SHOWN ON THESE DRAWINGS ARE FOR DESIGN DIRECTION ONLY.				
						FIRE PROTECTION					
						1.	FIRE PROTECTION (INCLUDING SPRINKLERS) ARE DESIGN/BUILD FOR THE ENTIRE PROJECT AND SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES. FIRE SPRINKLERS SHALL CONFORM TO NFPA 13 (INCLUSIVE OF ATTIC SPACES). FIRE SPRINKLER SYSTEM DESIGN SHALL BE DRAWN BY OTHERS AND SUBMITTED FIRST TO THE ARCH AND THEN TO THE FIRE DEPT. FOR APPROVAL PRIOR TO INSTALLATION. GO TO PROVIDE A COMPLETE AND FUNCTIONAL FIRE SPRINKLER SYSTEM, WITH APPROVALS FROM ALL AUTHORITIES HAVING JURISDICTION ON THE PROJECT, INCLUDING DESIGN AND INSTALLATION. ANY INFORMATION INCLUDED IN THE PLANS IS FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE DESIGN/BUILD CONTRACTOR TO BE WELL VERSED IN THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION AND THE CITY IN WHICH THE SYSTEM WILL BE INSTALLED. IT IS THE SOLE RESPONSIBILITY OF THE DESIGNER TO PROVIDE AND INSTALL AN APPROVED SYSTEM MEETING THE REQUIREMENTS OF THE LOCAL CODES, OFFICIALS AND THE OWNER.				

Fresh Concrete and Mortar Application

Who should use this information?

- Masons and Bricklayers
- Sidewalk Construction Crews
- Patio Construction Workers
- Construction Inspectors
- General Contractors
- Home Builders
- Developers
- Concrete Delivery/Pumping Workers



Storm Drain Pollution from Fresh Concrete and Mortar Applications

Fresh concrete and cement-related mortars that wash into lakes, streams, or estuaries are toxic to fish and the aquatic environment. Disposing of these materials to the storm drains or creeks can block storm drains, causes serious problems, and is prohibited by law.

Doing the Job Right General Business Practices

- ❑ Wash out concrete mixers only in designated wash-out areas in your yard, away from storm drains and waterways, where the water will flow into a temporary waste pit in a dirt area. Let water percolate through soil and dispose of settled, hardened concrete as garbage. Whenever possible, recycle washout by pumping back into mixers for reuse.
- ❑ Wash out chutes onto dirt areas at site that do not flow to streets or drains.
- ❑ Always store both dry and wet materials under cover, protected from rainfall and runoff and away from storm drains or waterways. Protect dry materials from wind.
- ❑ Secure bags of cement after they are open. Be sure to keep wind-blown cement powder away from streets, gutters, storm drains, rainfall, and runoff.
- ❑ Do not use diesel fuel as a lubricant on concrete forms, tools, or trailers.

During Construction

- ❑ Don't mix up more fresh concrete or cement than you will use in a two-hour period.
- ❑ Set up and operate small mixers on tarps or heavy plastic drop cloths.
- ❑ When cleaning up after driveway or sidewalk construction, wash fines onto dirt areas, not down the driveway or into the street or storm drain.
- ❑ Protect applications of fresh concrete and mortar from rainfall and runoff until the material has dried.
- ❑ Wash down exposed aggregate concrete only when the wash water can (1) flow onto a dirt area; (2) drain onto a bermed surface from which it can be pumped and disposed of properly; or (3) be vacuumed from a catchment created by blocking a storm drain inlet. If necessary, divert runoff with temporary berms. Make sure runoff does not reach gutters or storm drains.
- ❑ When breaking up pavement, be sure to pick up all the pieces and dispose of properly. Recycle large chunks of broken concrete at a local recycling facility.
- ❑ Never bury waste material. Dispose of small amounts of excess dry concrete, grout, and mortar in the trash.
- ❑ Never dispose of washout into the street, storm drains, drainage ditches, or streams.

Heavy Equipment Operation

Who should use this information?

- Vehicle and Equipment Operators
- Site Supervisors
- General Contractors
- Home Builders
- Developers



Stormwater Pollution from Heavy Equipment on Construction Sites

Poorly maintained vehicles and heavy equipment that leak fuel, oil, antifreeze or other fluids on the construction site are common sources of storm drain pollution. Prevent spills and leaks by isolating equipment from runoff channels, and by watching for leaks and other maintenance problems. Remove construction equipment from the site as soon as possible.

Doing the Job Right Site Planning and Preventive Vehicle Maintenance

- ❑ Designate one area of the construction site, well away from streams or storm drain inlets, for auto and equipment parking, refueling, and routine vehicle and equipment maintenance. Contain the area with berms, sand bags, or other barriers.
- ❑ Maintain all vehicles and heavy equipment. Inspect frequently for and repair leaks.
- ❑ Perform major maintenance, repair jobs, and vehicle and equipment washing off site where cleanup is easier.
- ❑ If you must drain and replace motor oil, radiator coolant, or other fluids on site, use drip pans or drop cloths to catch drips and spills. Collect all spent fluids, store in separate containers. Recycle them wherever possible, otherwise, dispose of them as hazardous wastes.
- ❑ Do not use diesel oil to lubricate equipment parts, or clean equipment. Use only water for any onsite cleaning.
- ❑ Cover exposed fifth wheel hitches and other oily or greasy equipment during rain events.
- ❑ Use as little water as possible for dust control. Ensure water used doesn't leave silt or discharge to storm drains.

Spill Cleanup

- ❑ Clean up spills immediately when they happen.
- ❑ Never hose down "dirty" pavement or impermeable surfaces where fluids have spilled. Use dry cleanup methods (absorbent materials, cat litter, and/or rags) whenever possible and properly dispose of absorbent materials.
- ❑ Sweep up spilled dry materials immediately. Never attempt to "wash them away" with water, or bury them.
- ❑ Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
- ❑ Report significant spills to the appropriate local spill response agencies immediately. In Milpitas, dial 911 if hazardous materials might enter the storm drain.

Earth-Moving and Dewatering Activities

Who should use this information?



- Bulldozer, Back Hoe, and Grading Machine Operators
- Dump Truck Drivers
- Site Supervisors
- General Contractors
- Home Builders
- Developers

Storm Drain Pollution from Earth-Moving Activities

Soil excavation and grading operations loosen large amounts of soil that can flow or blow into storm drains when handled improperly. Sediments in runoff can clog storm drains, smother aquatic life, and destroy habitats in creeks and the Bay. Effective erosion control practices reduce the amount of runoff crossing a site and slow the flow with check dams or roughened ground surfaces.

Contaminated groundwater is a common problem in the Santa Clara Valley. Depending on soil types and site history, groundwater pumped from construction sites may be contaminated with toxics (such as oil or solvents) or laden with sediments. Any of these pollutants can harm wildlife in creeks or the Bay, or interfere with wastewater treatment plant operation. Discharging sediment-laden water from a dewatering site into any of the state without treatment is prohibited.

Doing the Job Right General Business Practices

- ❑ Schedule excavation and grading work during dry weather.
- ❑ Perform major equipment repairs away from the job site.
- ❑ When refueling or vehicle/equipment maintenance must be done on site, designate a location away from storm drains.
- ❑ Do not use diesel oil to lubricate equipment parts, or clean equipment.

Practices During Construction

- ❑ Remove existing vegetation only when absolutely necessary. Plant temporary vegetation for erosion control on slopes or where construction is not immediately planned.
- ❑ Protect down-slope drainage courses, streams, and storm drains with wattles, or temporary drainage swales. Use check dams or ditches to divert runoff around excavations. Refer to the Regional Water Quality Control Board's Erosion and Sediment Control

Field Manual for proper erosion and sediment control measures, and California Stormwater Quality Association Stormwater Best Management Practice Handbook (construction, 2003).

- ❑ Cover stockpiles and excavated soil with secured tarps or plastic sheeting.

Dewatering Operations

Check for Toxic Pollutants

- ❑ Check for odors, discoloration, or an oily sheen on groundwater.
- ❑ Call your local wastewater treatment agency and ask whether the groundwater must be tested.
- ❑ If contamination is suspected, have the water tested by a certified laboratory.
- ❑ Depending on the test results, you may be allowed to discharge pumped groundwater to the storm drain (if no sediments present) or sanitary sewer. OR, you may be required to collect and haul pumped groundwater offsite for treatment and disposal at an appropriate treatment facility.

Detecting Contaminated Soil or Groundwater

Contaminated groundwater is a common problem in the Santa Clara Valley. It is essential that all contractors and subcontractors involved know what to look for in detecting contaminated soil or groundwater, and testing ponded groundwater before pumping. Watch for any of these conditions:

1. Unusual soil conditions, discoloration or odor.
2. Abandoned underground tanks.
3. Abandoned wells.
4. Buried barrels, debris or trash.

If any of these are found follow the procedures below.

Roadwork and Paving

Who should use this information?

- Road Crews
- Driveway/Sidewalk/Parking Lot Construction Crews
- Seal Coat Contractors
- Operators of Grading Equipment, Paving Machines, Dump Trucks, Concrete Mixers
- Construction Inspectors
- General Contractors
- Developers
- Home Builders



Storm Drain Pollution from Roadwork

Road paving, surfacing, and pavement removal happen right in the street, where there are numerous opportunities for asphalt, saw-cut slurry, or excavated material to illegally enter storm drains. Extra planning is required to store and dispose of materials properly and guard against pollution of storm drains, creeks, and the Bay.

Doing the Job Right General Business Practices

- ❑ Develop and implement erosion/sediment control plans for roadway embankments.
- ❑ Schedule excavation and grading work during dry weather.
- ❑ Check for and repair leaking equipment.
- ❑ Perform major equipment repairs at designated areas in your maintenance yard, where cleanup is easier. Avoid performing equipment repairs at construction sites.
- ❑ When refueling or when vehicle/equipment maintenance must be done on site, designate a location away from storm drains and creeks.
- ❑ Do not use diesel oil to lubricate equipment parts or clean equipment.
- ❑ Recycle used oil, concrete, broken asphalt, etc. whenever possible, or dispose of properly.

During Construction

- ❑ Avoid paving and seal coating in wet weather, or when rain is forecast, to prevent fresh materials from contacting stormwater runoff.
- ❑ Cover and seal catch basins and manholes when applying seal coat, slurry seal, fog seal, or similar materials.
- ❑ Protect drainage ways by using earth dikes, sand bags, or other controls to divert or trap and filter runoff.
- ❑ Never wash excess material from exposed aggregate concrete or similar treatments into a street or storm drain. Collect and recycle, or dispose to dirt area.
- ❑ Cover stockpiles (asphalt, sand, etc.) and other construction materials with plastic tarps. Protect from rainfall and prevent runoff with temporary roofs or plastic sheets and berms.
- ❑ Park paving machines over drip pans or absorbent material (cloth, rags, etc.) to catch drips when not in use.
- ❑ Clean up all spills and leaks using "dry" methods (with absorbent materials and/or rags). Dig up, remove, and properly dispose of contaminated soil.

- ❑ Collect and recycle or appropriately dispose of excess abrasive gravel or sand.
- ❑ Avoid over-application by water trucks for dust control.

Asphalt/Concrete Removal

- ❑ Avoid creating excess dust when breaking asphalt or concrete.
- ❑ After breaking up old pavement, be sure to remove all chunks and pieces. Make sure broken pavement does not come in contact with rainfall or runoff.
- ❑ When making saw cuts, use as little water as possible. Shovel or vacuum saw-cut slurry and remove from the site. Cover or protect storm drain inlets during saw cutting. Sweep up, and properly dispose of, all residues.
- ❑ Sweep, never hose down streets to clean up tracked dirt. Use a street sweeper or vacuum truck. Do not dump vacuumed liquor in storm drains.

Paint Removal

- ❑ Paint chips and dust from non-hazardous dry stripping and sand blasting may be swept up or collected in plastic drop cloths and disposed of as trash.
- ❑ Chemical paint stripping residue and chips and dust from marine paints or paints containing lead, mercury or tributyl tin must be disposed of as hazardous wastes. Lead based paint removal requires a state-certified contractor.
- ❑ When stripping or cleaning building exteriors with high-pressure water, block storm drains. Direct wash water onto a dirt area to find out if you can collect (mop or vacuum) building cleaning water and dispose to the sanitary sewer. Sampling of the water may be required to assist the wastewater treatment authority in making its decision.

- ❑ If there is loose paint on the building, or if the paint tests positive for lead, block storm drains. Check with the wastewater treatment plant to determine whether you may discharge water to the sanitary sewer, or if you must send it offsite for disposal as hazardous waste.

Painting Cleanup

- ❑ Never clean brushes or rinse paint containers into a street, gutter, storm drain, French drain, or stream.
- ❑ For water-based paints, paint out brushes to the extent possible, and rinse into a drain that goes to the sanitary sewer.

sewer. Never pour paint down a storm drain. Dispose of excess liquids and residue as hazardous waste.

- ❑ For oil-based paints, paint out brushes to the extent possible and clean with thinner or solvent in a proper container. Filter and reuse thinners and solvents. Dispose of excess liquids and residue as hazardous waste.
- ❑ When thoroughly dry, empty paint cans, used brushes, rags, and drop cloths may be disposed of as garbage in a sanitary landfill. Leave lids open and cans so the refuse collector can see that they are empty. Empty, dry paint cans also may be recycled as metal.
- ❑ Dispose of empty aerosol paint cans as hazardous waste or at household hazardous waste collection events.

Recycle/Reuse Leftover Paints Whenever Possible

- ❑ Donate excess water-based (latex) paint for reuse.
- ❑ Reuse leftover oil-based paint. Dispose of non-recyclable thinners, sludge and unwanted paint as hazardous waste.
- ❑ Unopened cans of paint may be able to be returned to the paint vendor. Check with the vendor regarding its "buy-back" policy.



BLUEPRINT FOR A CLEAN BAY

Best Management Practices for the Construction Industry

Remember: The property owner and the contractor share ultimate responsibility for the activities that occur on a construction site. You may be held responsible for any environmental damage caused by your subcontractors or employees.

Preventing Pollution: It's Up to Us

In the Santa Clara Valley, storm drains transport water directly to local creeks and San Francisco Bay without treatment. Stormwater pollution is a serious problem for wildlife dependent on our creeks and bays and for the people who live near polluted streams or baylands. Common sources of this pollution include spilled oil, fuel, and fluids from vehicles and heavy equipment; construction debris; sediment created by erosion; landscaping runoff containing pesticides or weed killers; and materials such as used motor oil, antifreeze, and paint products that people pour or spill into a street or storm drain.



Santa Clara Valley Urban Runoff Pollution Prevention Program

Thirteen valley municipalities have joined together with Santa Clara County and the Santa Clara Valley Water District to educate local residents and businesses and fight stormwater pollution. This "Blueprint" summarizes "Best Management Practices" (BMPs) for stormwater pollution prevention.

General Construction and Site Supervision

Who should use this information?

- General Contractors
- Site Supervisors
- Inspectors
- Home Builders
- Developers
- Homeowners



Storm Drain Pollution from Construction Activities

Construction sites are common sources of storm water pollution. Materials and wastes that blow or wash into a storm drain, gutter, or street have a direct impact on local creeks and the Bay.

As a contractor, or site supervisor, owner or operator of a site, you may be responsible for any environmental damage caused by your subcontractors or employees.

Doing the Job Right General Principles

- ❑ Keep an orderly site and ensure good housekeeping practices are used.
- ❑ Maintain equipment properly.
- ❑ Cover materials when they are not in use.
- ❑ Keep materials away from streets, storm drains and drainage channels.
- ❑ Ensure dust control water doesn't leave site or discharge to storm drains.

Advance Planning To Prevent Pollution

- ❑ Schedule excavation and grading activities for dry weather periods. To reduce soil erosion, plant temporary vegetation or place other erosion controls before rain begins. Use the Erosion and Sediment Control Field Manual, available from the Regional Water Quality Control Board San Francisco Bay Region, as a reference.
- ❑ Control the amount of runoff crossing your site (especially during excavation) by using berms or temporary or permanent drainage ditches to divert water flow around the site. Reduce stormwater runoff velocities by constructing temporary check dams or berms where appropriate.
- ❑ Train your employees and subcontractors. Make these brochures available to everyone who works on the construction site. Inform subcontractors about the stormwater requirements and their own responsibilities.

Landscaping, Gardening, and Pool Maintenance

Who should use this information?

- Landscapers
- Gardeners
- Swimming Pool/Spa Service and Repair Workers
- General Contractors
- Home Builders
- Developers
- Homeowners

Storm Drain Pollution from Landscaping and Swimming Pool Maintenance

Many landscaping activities expose soils and increase the likelihood that earth and garden chemicals will run off into the storm drains during irrigation or when it rains. Swimming pool water containing chlorine and copper-based algicides should never be discharged to storm drains. These chemicals are toxic to aquatic life.

Doing the Job Right General Business Practices

- ❑ Protect stockpiles (e.g. asphalt, sand, or soil) and landscaping materials from wind and rain by storing them under tarps or secured plastic sheeting.
- ❑ Store pesticides, fertilizers, and other chemicals indoors or in a shed or storage cabinet.
- ❑ Schedule grading and excavation projects during dry weather.
- ❑ Use temporary check dams or ditches to divert runoff away from storm drains.
- ❑ Protect storm drains with sandbags or other sediment controls.
- ❑ Revegetation is an excellent form of erosion control for any site. Replant as soon as possible with temporary vegetation such as grass seed.
- ❑ Dispose of unused pesticides as hazardous waste.

Landscaping/Garden Maintenance

- ❑ Consider using Integrated Pest Management Techniques. Use pesticides sparingly, according to instructions on the label. Rinse empty containers, and use rinsewater as product. Dispose of rinsed, empty containers in the trash.
- ❑ Dispose of unused pesticides as hazardous waste.

- ❑ Collect lawn and garden clippings, pruning waste, and tree trimmings. Chip if necessary, and compost if possible.
- ❑ Do not blow or rake leaves, etc. into the street, or place yard waste in gutters or on dirt shoulders. Sweep up any leaves, litter or residue in gutters or on street.

Pool/Fountain/Spa Maintenance

- ❑ Drain pools or spas
- ❑ When it's time to drain a pool, spa, or fountain, please be sure to call your local wastewater treatment plant before you start for further guidance on flow rate restrictions, backflow prevention, and handling special cleaning waste (such as acid wash). Discharge flows should be kept to the low levels typically possible through a garden hose. Higher flow rates may be prohibited by local ordinance.
- ❑ Never discharge pool or spa water to a street or storm drain; discharge to a sanitary sewer
- ❑ If possible, when emptying a pool or spa, let chlorine dissipate for a few days and then recycle/reuse water by draining it gradually onto a landscaped area. OR

- ❑ San Jose/Santa Clara Water Pollution Control Plant (408) 945-5300. You may be able to discharge to the sanitary sewer by running the hose to a utility sink or sewer pipe clean-out.
- ❑ Do not use copper-based algicides. Control algae with chlorine or other alternatives, such as sodium bromide.

Filter Cleaning

- ❑ Never clean a filter in the street or near a storm drain. Rinse cartridge and diatomaceous earth filters onto a dirt area, and spade filter residue into soil. Dispose of spent diatomaceous earth in the garbage.
- ❑ If there is no suitable dirt call San Jose/Santa Clara Water Pollution Control Plant (408) 945-5300 for instructions on discharging filter backwash or rinse water to the sanitary sewer.

Spill Response Agencies:

1. Dial 911
2. Santa Clara County Environmental Health Services (408) 299-6930
3. Governor's Office of Emergency Services Warning Center (800) 852-7550 (24 hours).

Local Pollution Control Agencies

- Santa Clara County Office of Toxics and Solid Waste Management (408) 441-1195
- Santa Clara Valley Water District (408) 265-2600
- San Jose/Santa Clara Water Pollution Control Plant (408) 945-5300
- Serving Milpitas, Cupertino, Los Gatos, Milpitas, Monte Sereno, San Jose, Santa Clara and Saratoga

Small Business Hazardous Waste Disposal Program

Santa Clara County businesses that generate less than 27 gallons or 220 pounds of hazardous waste per month are eligible to use Santa Clara County's Small Business Hazardous Waste Disposal Program. Call (408) 299-7300 for a quote, more information or guidance on disposal.

PROJECT ADDRESS:

PROJECT NAME:

BLUEPRINT FOR A CLEAN BAY

BUILDING & SAFETY DEPARTMENT

SHEET

CB-1

DESIGN EVEREST
CONSULTING ENGINEERS
365 FLOWER LANE
MOUNTAIN VIEW, CA 94043
PHONE: (888) 311-3015 FAX: (650) 695-1801

2387 MATTOS DRIVE
ADU BUILDING PERMIT

REV	DATE	REMARKS
0	02-14-2023	BUILDING PERMIT
1	05-13-2023	REVISION 1
2	07-24-2023	REVISION 2
3	10-04-2023	REVISION 3



SIGN
DATE:
DATE:
SCALE:
DRAWN BY: Author
CKD BY: Checker
PROJECT#: 202212048

A0.2
BLUEPRINT FOR A
CLEAN BAY

BUILDING ENVELOPE - HERS VERIFICATION									
01	02		03		04		05		
Quality Insulation Installation (QI)	High R-value Spray Foam Insulation		Building Envelope Air Leakage		CFM50		CFM50		
Required	Not Required		N/A		n/a		n/a		
WATER HEATING SYSTEMS									
01	02	03	04	05	06	07	08	09	
Name	System Type	Distribution Type	Water Heater Name	Number of Units	Solar Heating System	Compact Distribution	HERS Verification	Water Heater Name (#)	
DHW Sys 1	Domestic Hot Water (DHW)	Standard	DHW Heater 1	1	n/a	None	n/a	DHW Heater 1 (1)	
WATER HEATERS - NEEA HEAT PUMP									
01	02	03	04	05	06	07	08		
Name	# of Units	Tank Vol. (gal)	NEEA Heat Pump Brand	NEEA Heat Pump Model	Tank location	Duct Inlet Air Source	Duct Outlet Air Source		
DHW Heater 1	1	50	Rheem	PROPH50 T2 RH37515 (50 gal, JAL3)	Tank/Zone	1st Floor Zone	1st Floor Zone		
WATER HEATING - HERS VERIFICATION									
01	02	03	04	05	06	07			
Name	Pipe Insulation	Parallel Piping	Compact Distribution	Compact Distribution Type	Recirculation Control	Shower Drain Water Heat Recovery			
DHW Sys 1 - 1/1	Not Required	Not Required	Not Required	None	Not Required	Not Required			

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
I, I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Raffi Dar	Documentation Author Signature: <i>Raffi Dar</i>
Company: Precise Green Consulting Inc.	Signature Date: 10/02/2023
Address: 3633 Urquidez Ave	CEA/HERS Certification Identification (if applicable):
City/State/Zip: Glendale, CA 91208	Phone: 818-291-3919
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
I certify the following under penalty of perjury, under the laws of the State of California: 1. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance. 2. I certify that the energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 3. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.	
Responsible Designer Name: Nathan Conrad	Responsible Designer Signature: <i>Nathan Conrad</i>
Company: T+C Architecture and Interior Design	Date Signed: 10/04/2023
Address: 243 Ashley Cir	License:
City/State/Zip: Danville, CA 94526	Phone: 9252120993

SPACE CONDITIONING SYSTEMS												
01	02	03	04		05		06		07		08	09
Name	System Type	Heating Unit Name	Heating Equipment Count	Cooling Unit Name	Cooling Equipment Count	Fan Name	Distribution Name	Required Thermostat Type				
New HVAC1	Heat pump heating-cooling	Heat Pump System 1	1	Heat Pump System 1	1	HVAC Fan 1	Air Distribution System 1	Setback				
HVAC - HEAT PUMPS												
01	02	03	04	05	06	07	08	09	10	11	12	13
Name	System Type	Number of Units	Heating			Cooling			Zonally Controlled	Compressor Type	HERS Verification	
			Efficiency Type	HSPF / HSPF 2 / COP	Cap 47	Cap 17	Efficiency Type	SEER / SEER 2				EER / EER / CEER
Heat Pump System 1	Central split HP	1	HSPF	9.5	36000	24000	EER/SEER	16	12	Not Zonal	Single Speed	Heat Pump System 1-hers-htpump
HVAC HEAT PUMPS - HERS VERIFICATION												
01	02	03	04	05		06		07		08	09	
Name	Verified Airflow	Airflow Target	Verified EER/EER2	Verified SEER/SEER2	Verified Refrigerant Charge	Verified HSPF/HSPF 2	Verified Heating Cap 47	Verified Heating Cap 17		Yes	Yes	
Heat Pump System 1-hers-htpump	Required	350	Not Required	Required	Yes	Yes	Yes	Yes		Yes	Yes	
HVAC - DISTRIBUTION SYSTEMS												
01	02	03	04	05	06	07	08	09	10		11	12
Name	Type	Design Type	Duct Ins. R-value		Duct Location		Surface Area		Bypass Duct	Duct Leakage	HERS Verification	
			Supply	Return	Supply	Return	Supply	Return				
Air Distribution System 1	Unconditioned attic	Non-Verified	R-6	R-6	Attic	Attic	n/a	n/a	No Bypass Duct	Sealed and Tested	Air Distribution System 1-hers-dist	

HVAC DISTRIBUTION - HERS VERIFICATION								
01	02	03	04	05	06	07	08	09
Name	Duct Leakage Verification	Duct Leakage Target (%)	Verified Duct Location	Verified Duct Design	Buried Ducts	Deeply Buried Ducts	Low-leakage Air Handler	Low Leakage Ducts Entirely in Conditioned Space
Air Distribution System 1-hers-dist	Yes	5.0	Not Required	Not Required	Not Required	Credit not taken	Not Required	No
HVAC - FAN SYSTEMS								
01	02	03	04					
Name	Type	Fan Power (Watts/CFM)	Name					
HVAC Fan 1	HVAC Fan	0.45	HVAC Fan 1-hers-fan					
HVAC FAN SYSTEMS - HERS VERIFICATION								
01	02	03						
Name	Verified Fan Watt Draw	Required Fan Efficacy (Watts/CFM)						
HVAC Fan 1-hers-fan	Required	0.45						
INDOOR AIR QUALITY (IAQ) FANS								
01	02	03	04	05	06	07	08	09
Dwelling Unit	Airflow (CFM)	Fan Efficacy (W/CFM)	IAQ Fan Type	Includes Heat/Energy Recovery?	IAQ Recovery Effectiveness - SRE	Includes Fault Indicator Display?	HERS Verification	Status
Sfam IAQVentRpt	51	0.35	Exhaust	No	n/a / n/a	No	Yes	

DESIGN EVEREST
CONSULTING ENGINEERS
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2387 MATTOS DRIVE
ADU BUILDING PERMIT

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LICENSED ARCHITECT
NATHAN CONRAD
C36505
5-31-2025
STATE OF CALIFORNIA

SIGN
DATE:

DATE:

SCALE:

DRAWN BY: Author

CKD BY: Checker

PROJECT#: 202212048

A0.5
T24 REPORT

RESIDENTIAL MEASURES SUMMARY										RMS-1	
Project Name 2383 Mattos Drive - ADU			Building Type ☒ Single Family ☐ Multi Family			☐ Addition Alone ☐ Existing+ Addition/Alteration			Date 7/21/2023		
Project Address 2383 Mattos Drive Milpitas			California Energy Climate Zone CA Climate Zone 04			Total Cond. Floor Area 999		Addition n/a		# of Units 1	
INSULATION			Area								
Construction Type			Cavity		Area (ft²)	Special Features			Status		
Wall	Wood Framed		R 15		1,468	Addn-R-5.0			New		
Door	Opaque Door		R-5		20				New		
Slab	Unheated Slab-on-Grade		- no insulation		672	Perim = 0'			New		
Roof	Wood Framed Attic		R 30		640	Addn-R-15.0			New		
Demising	Wood Framed Attic		- no insulation		327				New		
Demising	Wood Framed w/o Crawl Space		- no insulation		327				New		
FENESTRATION			Total Area: 183		Glazing Percentage: 18.3%		New/Altered Average U-Factor: 0.33				
Orientation	Area (ft²)	U-Fac	SHGC	Overhang	Sidefins	Exterior Shades			Status		
Left (NW)	22.5	0.300	0.23	none	none	N/A			New		
Right (SE)	74.5	0.300	0.23	none	none	N/A			New		
Front (SW)	40.0	0.300	0.23	none	none	N/A			New		
Skylight	32.0	0.470	0.25	none	none	N/A			New		
Rear (NE)	13.5	0.300	0.23	none	none	N/A			New		
HVAC SYSTEMS											
Qty. Heating		Min. Eff		Cooling		Min. Eff		Thermostat		Status	
1	Electric Heat Pump	9.50 HSPF		Split Heat Pump		16.0 SEER		Setback		New	
HVAC DISTRIBUTION											
Location		Heating		Cooling		Duct Location		Duct R-Value		Status	
New HVAC		Ducted		Ducted		Attic		6.0		New	
WATER HEATING											
Qty. Type		Gallons		Min. Eff		Distribution				Status	
1	Heat Pump	50		3.50		Standard				New	
Energy Pro 9.1 by EnergySoft User Number: 42008 ID: 230142 Page 15 of 22											

2022 Single-Family Residential Mandatory Requirements Summary	
§ 502.04(1)G	Scrow based luminaires. Scrow based luminaires must contain lamps that comply with Reference Joint Appendix JA-1 *
§ 502.04(1)H	Light Sources in Enclosed or Enclosed Luminaires. Lamps and other separable light sources that are not compliant with the JAB elevated temperature requirements, including incandescent lamps, must not be installed in enclosed or recessed luminaires.
§ 502.04(1)I	Light Sources in Drawers, Cabinets, and Linen Closets. Light sources installed in drawers, cabinet or linen closets are not required to comply with Table 150.0-A or be controlled by vacancy sensors provided that they are rated to consume no more than 5 watts of power, emit no more than 100 lumens, and are equipped with controls that automatically turn the lighting off when the drawer, cabinet or linen closet is closed.
§ 502.04(2)A	Interior Switches and Controls. All forward phase cut dimmers used with LED light sources must comply with NEMA SSLT 7A.
§ 502.04(2)B	Interior Switches and Controls: Exhaust fans must be controlled separately from lighting systems.
§ 502.04(2)C	Accessible Controls. Lighting must have readily accessible wall mounted controls that allow the lighting to be manually turned on and off.
§ 502.04(2)D	Multiple Controls. Controls must not bypass a driver, occupant sensor, or vacancy sensor function if the dimmer or sensor is installed in compliance with § 502.04(1).
§ 502.04(2)E	Mandatory Requirements. Lighting controls must comply with the applicable requirements of § 110.9
§ 502.04(2)F	Energy Management Control Systems. An energy management control system (EMCS) may be used to comply with dimming, occupancy, and control requirements if it provides the functionality of the specified control per § 110.9 and the physical controls specified in § 502.04(2)G.
§ 502.04(2)G	Automatic Shutoff Controls. In bathrooms, garages, laundry rooms, utility rooms and walk-in closets, at least one installed luminaire must be controlled by an occupancy or vacancy sensor providing automatic off-functionality. Lighting inside drawers and cabinets with opaque fronts or doors must have controls that turn the light off when the drawer or door is closed.
§ 502.04(2)H	Dimmers. Lighting in habitable spaces (e.g., living rooms, dining rooms, kitchens, and bedrooms) must have readily accessible wall-mounted dimming controls that allow the lighting to be manually adjusted up and down. Forward phase cut dimmer controlling LED light sources in these spaces must comply with NEMA SSLT 7A.
§ 502.04(2)I	Independent controls. Integrated lighting of exhaust fans shall be controlled independently from the fans. Lighting under cabinets or in garages is not required to be controlled independently from the exhaust fan.
§ 502.04(3)A	Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently mounted to a residential building or other buildings on the same lot, must have a manual on/off switch and either a photocell and motion sensor or automatic time switch control or an astronomical time clock. An energy management control system that provides the specified control functionality and meets the applicable requirements may be used to meet these requirements.
§ 502.04(3)B	Internally Illuminated address signs. Internally illuminated address signs must either comply with § 140.8 or consume no more than 5 watts of power.
§ 502.04(4)	Minimum Requirements for Eight or More Vehicles. Lighting for residential parking garages for eight or more vehicles must comply with the applicable requirements for nonresidential garages in §§ 110.9, 130.0, 130.1, 140.3, 140.6, and 141.0.

Solar Readiness:	
	Single-Family Residences. Single-family residences located in subdivisions with 10 or more single-family residences and where the application for a new subdivision is subject to the residential rules shall be deemed to comply and approved by the enforcement agency, which do not have a photovoltaic system installed, must comply with the requirements of § 110.10(b)(9).
	Minimum Solar Zone Area. The solar zone must have a minimum total area as described below. The solar zone must comply with the following pathway, provided that the solar zone meets the minimum area and the solar zone is not subject to the installation of any requirements applicable by local jurisdiction. The solar zone total area must be comprised of areas that have no dimension less than 5 feet and are not less than 90 square feet for each building with roof areas less than or equal to 10,000 square feet or less than 160 square feet with a roof area greater than 10,000 square feet. For buildings with roof areas greater than 160 square feet, the solar zone must be located on the roof or overhang of the building and have a total area less than 250 square feet.
§ 110.10(b)(1A)	
§ 110.10(c)(2)	Acidmuth. All sections of the solar zone located on steep-sloped roofs must have an acimuth between 90-300° of the north.
§ 110.10(c)(3A)	Shading. The solar zone must not contain any obstructions, including but not limited to: vents, chimneys, architectural features, and roof-mounted equipment.
§ 110.10(c)(3B)	Shading. Any obstruction located on the roof or any part of the building that projects above a solar zone must be located at least twice the vertical distance of the height difference between the highest point of the obstruction and the horizontal projection of the nearest part of the solar zone, measured in the vertical plane.
§ 110.10(c)(4)	Structural Design Loads on Construction Documents. For areas of the roof designated as a solar zone, the structural design loads for roof dead and live loads shall be in accordance with the applicable code.
§ 110.10(d)	Interconnection Pathways. The construction documents must indicate a location reserved for inverters and metering equipment and a pathway reserved for routing of conductors from the solar zone to the point of interconnection with the electrical service, and for single-family residential applications, a location reserved for routing of conductors to the metering equipment.
§ 110.10(d)(1)	Documentation. A copy of the construction documents or a comparable document indicating the information from § 110.10(b)(9) shall be provided to the occupant.
§ 110.10(d)(1)	Main Electrical Service Panel. The main electrical service panel must have a minimum branch rating of 200 amps.
§ 110.10(c)(2)	Future Solar Ready. The solar zone must be reserved for future solar use. The solar zone shall not be permanently marked as "For Future Solar Electric."
	Electric and Energy Storage Ready:

2022 Single-Family Residential Mandatory Requirements Summary

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

Building Envelope:	
§ 100.6(a)	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 ASTM E283, ASTM E290, or AIAA/AIAA/ASCE, 1911-2-24-44-2011.*
§ 100.6(a)	Labeling. Fenestration products and exterior doors have a label meeting the requirements of § 100.11(a).
§ 100.6(b)	Field fabricated exterior doors and fenestration products must use U-factors and solar heat gain coefficient (SHGC) values from Tables 100.6-1A, 100.6-1B, or A4.6 for exterior doors. They must be installed under all weather stripping.
§ 100.6(c)	Leakage. All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be sealed with caulking or weatherstripping.
§ 100.6(a)	Insulation Certification by Manufacturers. Insulation must be certified by the Department of Consumer Affairs, Bureau of Household Goods and Services (BHGS).
§ 100.6(a)	Insulation Requirements for Heated SB Floors. Heated sb floors must be insulated per the requirements of § 100.6(f).
§ 100.6(a)	Insulation for Solid Slab-on-Grade and Thermal Emittance. The thermal emittance and solar reflectance values of the roofing material must meet the requirements of § 100.6(b) and be labeled per § 100.113 when the installation of a roof reflector is specified on the CFR.
§ 100.6(a)	Radiant Barrier. When required, radiant barriers must have an emittance of 05 or less and be certified to the Department of Consumer Affairs.
§ 100.6(a)	Roof Deck, Ceiling and Rafter Roof Insulation. Roof decks in newly constructed attics in climate zones 4 and 6 and one-a-weighted average U-factor not exceeding Uo 184. Ceiling and rafter roofs in minimum R22 insulation in wood-frame ceiling; or area-weighted average U-factor must not exceed Uo 184. Rafter roof alterations minimum R-19 or area-weighted average U-factor of 0.054 or less. Allow access to prevent air leakage. Insulation must be installed in direct contact with a roof or ceiling which is sealed to limit infiltration and exfiltration, as specified in § 100.6, including but not limited to placing insulation either above or below the roof deck or on top of a drilled ceiling.
§ 100.6(a)	Attic Filtration. Use of attic filtration must meet the manufacturer's required design and be labeled R-value.
§ 100.6(a)	Wall Insulation. Minimum R-13 insulation in 2x4 wood framing wall or have a U-factor of 0.02 or less; or R-20 in 2x6-inch wood framing or have a U-factor of 0.021 or less. Oppaque non-framed assemblies must have an overall assembly U-factor not exceeding 0.02. Masonry walls must meet Tables 150.1-A or 1-B.
§ 100.6(d)	Raised-Roof Insulation. Minimum R-19 insulation in raised wood framed roof or 0.037 maximum U-factor.*
§ 100.6(a)	SB Edge Insulation. SB edge insulation must meet all of the following: have a water absorption rate, for the insulation material alone (not including the substrate), no greater than 0.2 percent, have a minimum compressive strength of 100 psi, be protected from physical damage and UV-light deterioration, and when installed as part of a heated slab floor, meet the requirements of § 100.6(i).
§ 100.6(a)	Vapor Retarder. In climate zones 1 through 16, the air floor of unvented crawl space must be covered with a Class I or Class II vapor retarder. This requirement also applies to controlled vented crawl space for buildings complying with the exception to § 100.6(d).
§ 100.6(a)	Vapor Retarder. In climate zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of all insulation in all exterior walls, vented attics, and unvented attics with air-permeable insulation.
§ 100.6(a)	Insulation/Enclosure. Insulation, including slatting, separating conditioned space from unconditioned space and outdoors must have minimum U-factor of .45; or area-weighted average U-factor must not exceed 0.45.

Fluorescent, Decorative Gas Appliances, and Gas Log:	
§ 110.5(e)	Pilot Light. Continuously burning pilot lights are not allowed for indoor and outdoor freestaps.
§ 150.0(e)(1)	Closable Doors. Masonry or factory-built freestaps must have a closable metal or glass door covering the entire opening of the freestap.
§ 150.0(e)(2)	Combustion Intake. Masonry or factory-built freestaps must have a combustion outside air intake, which is at least six square inches in area and is equipped with a readily accessible, operable, and tightly-fitting damper or combustion-air-control device.
§ 150.0(e)(3)	Flue Damper. Masonry or factory-built freestaps must have a flue damper with a readily accessible control device.
Space Conditioning, Water Heating, and Ventilation System:	
§ 110.0.8, 110.3	Certification. Heating, ventilation, and air conditioning (HVAC) equipment, water heaters, showheats, faucets, and all other regulated appliances must be certified by the manufacturer to the California Energy Efficiency Act.
§ 110.2(a)	HVAC Efficiency. Equipment must meet the applicable efficiency requirements in Table 110.2.2 through Table 110.2.N.
§ 110.2(b)	Controls for Heat Pumps with Supplementary Electric Resistance Heaters. Heat pumps with supplementary electric resistance heaters must have controls that prevent the electric resistance heater from operating when the heat pump is on, and in which the cut-on temperature for compression heating is higher than the cut-on temperature for supplementary heating, and the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating.
§ 110.2(c)	Thermostats. All heating or cooling systems not controlled by a central energy management control system (EMCS) must have a setback thermostat.
§ 110.3(c)(3)	Insulation. Unfired service water heater storage tanks and solar water heating backup tanks must have adequate insulation, or tank surface heat loss rating.
§ 110.3(c)(6)	Isolation Valves. Instantaneous water heaters with an input rating greater than 6.8 Btu per hour (2 kW) must have isolation valves with hose bibbs or other fittings on both cold and hot water lines to allow for flushing the water heater when the valves are closed.

	2022 Single-Family Residential Mandatory Requirements Summary
§ 50.0(i)	Energy Storage System (ESS) Ready. All single-family residential must meet all of the following: Either ESS-ready interconnection equipment with backed-up capacity of 50 kVA or more, or four or more ESS supplied branch circuits, <u>or</u> a dedicated raceway from the main service to a subpanel that supplies the branch circuit(s) at 150 volts, and the branch circuit must be identified and have a service colloccated at a single panelboard location to be supplied by the ESS; with one circuit supplying the refrigerator, one lighting circuit near the primary entry, and one circuit supplying a sleeping room receptacle outlet, main panelboard must have a minimum busbar rating of 225 amps; sufficient space must be reserved to allow future installation of a system isolation equipment/transfer switch with 3% of the main panelboard, with raceway(s) between the main panelboard and the switch location to allow the connection of backup power source. Heat Pump Space Heater Ready. Systems using gas or propane furnaces to serve individual dwelling units must include: A dedicated 240V branch circuit wiring installed within 3' of the furnace with circuit conductors rated at least 50 amps with the blank covered identified as "240V ready"; and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For 240V 240V." Electric Cooktop Ready. Systems using gas or propane cooktop; To serve individual dwelling units must include: A dedicated ungrounded 240V branch circuit wiring installed within 3' of the cooktop with circuit conductors rated at least 50 amps with the blank covered identified as "240V ready"; and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For 240V 240V." Electric Clothes Dryer Ready. Clothes dryer locations with gas or propane plumbing to serve individual dwelling units must include: A dedicated ungrounded 240V branch circuit wiring installed within 3' of the dryer location with circuit conductors rated at least 30 amps with the blank covered identified as "240V ready"; and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For 240V 240V."

*Exceptions may apply.

2022 Single-Family Residential Mandatory Requirements Summary

\$ 105	Pilot Lights. Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces; household cooking appliances (except appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu per hour); and pool and spa heaters.
\$ 150 (b)(1)	Building Cooling and Heating Loads. Heating and/or cooling loads are calculated in accordance with the ASHRAE Handbook, Equipment Volume, Applications Volume, and Fundamentals Volume; the SMACNA Residential Central System Installation Manual; or the ACCA Manual. Using design conditions specified in § 150 (d)(2).
\$ 150 (d)(3A)	Cleanances. Air conditioners and heat pump outdoor condensing units must have a clearance of at least five feet from the outlet of any dryer.
\$ 150 (d)(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 (d)(1)	Water-Side Solder-Welding System Piping, and Space Conditioning System Line Insulation. All domestic hot water piping must be installed as specified in § 802 (1) of the California Plumbing Code.
\$ 150 (d)(2)	Insulation Protection. Piping insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind as required by § 812 (3B). Insulation exposed to weather must be water resistant and protected from UV light (no adhesive tapes), insulation covering chilled water piping and refrigerant suction piping located outside must be conditioned space must include, or be protected by, a Class I or Class II vapor retarder. Piping insulation rated below grade must be installed in a waterproof and non-absorbable casing or sleeve.
\$ 150 (d)(1)	Gas or Propane Water Heating Systems. Systems using gas or propane water heaters to serve individual dwelling units must designate a space at least 25 x 25 x 7' suitable for the future installation of a heat pump water heater, and meet electrical and plumbing requirements, based on the distance between its designated space and the water heater location, and a condensate drain no more than 2' higher than the base of the water heater.
\$ 150 (d)(3)	Water-Side Testing. All water-side testing, including pressure and vacuum testing, systems and collectors must be certified and rated by the Solar Rating and Certification Corporation (SRCC), the International Association of Plumbing and Mechanical Officials, Research and Testing (IAPMO R&T), or by a listing agency that is approved by the executive director.

Ducts and Fans:	
\$ 110.0 (m) 6	Ducts. Insulation installed on an existing space-conditioning duct must comply with §64.0 of the California Mechanical Code (CMC). If the contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets these requirements. CMC Compliance. All air-distribution systems ducts and plenums must comply with CMC §§61.0 (Ducts) and ANSI/ASHRAE 62.2-2006 HVAC Section 6.2. Contract for the purpose of supply of ductwork shall be for a minimum of 12 inches of supply ductwork, 18 inches of return ductwork, R-6.0 or higher, ducts located entirely in conditioned space as confirmed through field verification and diagnostic testing. Ratings must be equal to or higher insulation. Connections of metal ducts and inner core of flexible ducts must be mechanically fastened. Openings must be sealed with mastic, tape, or other duct sealant that meets the applicable UL requirements, its service shall not be less than UL-723. The combination of mastic and other mastic tape must be used to seal openings greater than 1/2", if mastic tape is used. Building cavities, air handler support structures, and plenums designed or constructed with materials other than sealed sheet metal, duct board or flexible duct must not be used to convey conditioned air. Building cavities and support platforms may contain ducts; ducts installed in these spaces must not be compressed. Factory-Fabricated Duct Systems. Factory-fabricated duct systems must comply with applicable requirements for duct construction, connections, and closures; joints and seams of duct systems and their components must not be sealed with cloth based non-adhesive duct tapes unless such tapes are used in combination with mastic and draw bands. Field-Fabricated Duct Systems. Field-fabricated duct systems must comply with applicable requirements for pressure-sensitive tapes, mastic, sealants, and other components specified for use for construction. Backdraft Damper. Fan systems that exchange air between the conditioned space and outdoors must have backdraft or automatic dampers. Gravily Ventilated Systems. Gravity ventilating systems serving conditioned space must have either automatic or readily accessible, manually operated dampers in all openings to the outside, except condenser coil and outdoor air openings and elevator shaft vents. Protection of Insulation. Insulation must be protected from damage due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather must be suitable for outdoor service (e.g., protected by aluminum, sheet metal, painted canvas, or plastic coating). Outdoor fan enclosure insulation must be protected as above or painted with a water resistant and solar radiation-resistant coating. Porous Inner Core Flex Duct. Porous inner cores of flex ducts must have a non-porous layer or air barrier between the inner core and outer vapor barrier.
\$ 150.0 (m) 10	Duct System Sealing and Leakage Test. When space conditioning systems use forced air duct systems to supply conditioned air to an occupiable space, the ducts must be sealed and duct leakage tested, as confirmed through field verification and diagnostic testing, in accordance with International Mechanical Code (IMC) Section 604.2.2. Air Filtration. Space conditioning systems with ducts exceeding 10 feet and the supply side of ventilation systems must have MERV 13 or equivalent filters. Filters for space conditioning systems must have a two inch depth or can be one inch if sized per ASHRAE 160.0-A. Clean-air filter pressure drop and labeling must meet the requirements in §150.0 (m) 12. Filters must be accessible for regular service. Filter rings or gaskets must use gaskets, sealing, or other means to close gaps around the filtered filters to prevent air from bypassing filter. *

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2022 Single-Family Residential Mandatory Requirements Summary

§ 150.0(m)13. **Space Conditioning System Airflow Rate and Fan Efficacy:** Space conditioning systems that use ducts to supply cooling must have a hole for the placement of a static pressure probe, or a permanently installed static pressure probe in the supply plenum. Airflow must be ≥ 350 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≥ 0.45 watts per CFM for gas furnace air handlers and ≥ 0.99 watts per CFM for all others. Small duct high velocity systems must provide an airflow ≥ 250 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.62 watts per CFM. Field verification testing is required in accordance with Reference Residential Appendix RA3.3. *

Ventilation and Indoor Air Quality:

§ 50.00(a) **Requirements for Ventilation and Indoor Air Quality.** All dwelling units must meet the requirements of ASHRAE Standard 62, Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 50.00(a) 1.

§ 50.00(a) 1B **Central Fan Integrated (CFI) Ventilation Systems.** Continuous operation of CFI air handlers is not allowed to provide the whole-house mechanical ventilation. A motorized damper(s) in the outside air intake duct on the ventilation duct that prevents air from the space conditioning duct system when the damper(s) is closed uncontrolled per § 50.00(a) 1B(4). CFV ventilation systems must have controls that track outdoor air ventilation run time, and either open or close the motorized damper(s) for compliance with § 50.00(a) 1C.

§ 50.00(a) 1C **Whole-Dwelling Unit Mechanical Ventilation for Single-Family Detached and Townhouses.** Single-family detached dwelling units, and attached dwelling units with a change of air for more than one dwelling unit, occupant spaces, public garages, or commercial spaces must have mechanical ventilation airflow specified in § 50.00(a) 1C(3).

§ 50.00(a) 1G **Local Mechanical Exhaust.** Kitchens and bathrooms must have local mechanical exhaust; nonrescued kitchens must have demand-controlled exhaust system meeting requirements of § 150.00(a) 1G. Enclosed kitchens and bathrooms can use demand-controlled or continuous exhaust meeting § 150.00(a) 1G(4). Airflow must be measured by the installer per § 150.00(a) 1G, and rated for sound per § 150.00(a) 1G(5).

§ 50.00(a) 1H **Airflow Measurement and Sound Ratings of Whole-Dwelling Unit Ventilation Systems.** The airflow required per § 50.00(a) 1C must be measured by using a flow hood, flow grid, or other airflow measuring device at the fan's inlet or outlet terminals/registers per Reference Residential Appendix RA37. Whole-dwelling unit ventilation systems must be rated for sound per ASHRAE 62-2 of at least no less than the minimum airflow required by § 150.00(a) 1G.

§ 50.00(a) 2 **Verification and Diagnostic Testing.** Whole-dwelling Unit ventilation airflow, vented range hood and sound rating, and HVI and ERV fan efficiency must be verified in accordance with Reference Residential Appendix RA37. Vented range hood ratings must be verified per Reference Residential Appendix RA37 4.3 to confirm if it is rated by HVI or AHAM to comply with the airflow rates and sound requirements per § 150.00(a) 1G.

Pool and Spa Systems and Equipment:

§ 110.4(b)(1)	Certification by Manufacturers. Any pool or spa heating system or equipment must be certified to have all of the following compliance with the Efficiency and Energy Star requirements: (1) The heating system or equipment must be designed to be installed in the heater without adjusting the thermal sealing, a permanent weatherproof plate or cap with operating instructions, and must not use electric resistance heating.
§ 110.4(b)(2)	Heating. Any pool or spa heating system or equipment must be installed with at least 36 inches of space between the filter and the heater, or dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating.
§ 110.4(b)(2)	Covers. Outdoor pools or spas that have a heat pump or gas heater must have a cover.
§ 110.4(b)(3)	Directional Lights and Time Schedules for Pools. Pools must have directional lights that adequately mix the pool water, and a time schedule that will allow all pumps to be set or operated during the day, during the night, or during periods of demand periods.
§ 110.5	Pilot Light. Natural gas pool and spa heaters must not have a continuously burning pilot light.
§ 110.5	Pool Systems and Equipment Installation. Residential pool systems or equipment must meet the specified requirements for pump sizing, flow rate, ratings, filters, and vents.
§ 110.50(d)	
Lighting:	
§ 110.9	Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable requirements of § 110.9.
§ 110.50(a)(1)	Luminaire Efficacy. All installed luminaires must meet the requirements in Table 150 D.O.A., except lighting integral to exhaust fans, kitchen range hoods, built-in mirrors, and garage door openers, navigation lighting less than 5 watts, and lighting related to drawers, cabinets, and linen closets with an efficacy of 100 lumens per watt.
§ 110.50(a)(1)	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix A4.6.
§ 110.50(a)(1)	Recessed Downlight Luminaires in Ceilings. Luminaires recessed into ceilings must not contain screw based sockets, must be air-tight, and must be sealed with a gasket or caulk. California Electrical Code § 410.18 must also be met.
§ 110.50(a)(1)	Light Sources in Enclosures. Recessed luminaires, luminaires and other acceptable light sources that are not compliant with the A4.6 listed temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 110.50(a)(1)	Blank Electrical Boxes. The number of electrical boxes that are more than five feet above the finished floor and do not contain a luminaire or other lighting equipment must not exceed the number of electrical boxes. These boxes must be served by a dimmer, voltage sensor control, low voltage wiring, or fan speed control.
§ 110.50(a)(1)	Lighting Integral to Exhaust Fans. Lighting integral to exhaust fans [except when installed by the manufacturer in kitchen exhaust fans] must meet the applicable requirements of § 110.50(a)(1).

16/2:

DESIGN EVEREST CONSULTING ENGINEERS 365 FLOWER LANE MOUNTAIN VIEW, CA 94043 PHONE: (888) 311-3015 FAX: (650) 695-1801	2387 MATTOS DRIVE	
	ADU BUILDING PERMIT	
	REMARKS	
	REV	DATE
	0	02.14.2023 BUILDING PERMIT
	1	05.13.2023 REVISION 1
	2	07.24.2023 REVISION 2
	3	10.04.2023 REVISION 3
 SIGN DATE: DATE: SCALE: DRAWN BY: Author CKD BY: Checker PROJECT#: 202212048		
A0.6 RESIDENTIAL MEASURES SUMMARY		

RESIDENTIAL MEASURES SUMMARY

SITE PLAN SHEET NOTES

- 35 GRADING TO MOVE SURFACE WATER AWAY FROM BUILDING AND ADJACENT PROPERTIES AND TOWARD PUBLIC RIGHT OF WAY
- 36 WHERE LOT LINES PROHIBIT 6" OF FALL THEN DRAIN OR SWALES SHALL BE CONSTRUCTED.
- 37 IMPERVIOUS SURFACES WITHIN 10 FEET OF THE FOUNDATION SHALL BE SLOPED NOT LESS THAN 2% AWAY FROM THE BUILDING PER CRC R401.3.

- 38 ADDRESS NUMBERS FOR BOTH MAIN HOUSE AS WELL AS ADU SHALL BE ILLUMINATED (EXTERNAL OR INTERNAL) AND PLACED AT THE FRONT OF THE STRUCTURE FACING THE STREET, AS PER FIRE CODE.
- 39 ADDRESS NUMBERS SHALL BE MINIMUM 4" HIGH WITH 1/2" STROKE.
- 40 THE ICC REPORT FOR THE NEW SKYLIGHTS SHALL BE VERIFIED IN THE FIELD FOR INSPECTION.
- 41 EXISTING 200 AMP MAIN ELECTRICAL SERVICE PANEL LOCATION
- 42 EXISTING TRANSFORMER LOCATION

- 43 UNDERGROUND ELECTRICAL SERVICE
- 44 EXISTING 4" ABS SEWER LATERAL
- 45 PROPOSED SEWER CONNECTION TO EXISTING MAIN
- 46 EXISTING 1" COPPER WATER LINE
- 47 PROPOSED 1" COPPER CONNECTION FROM ADU TO EXISTING WATER LINE
- 48 PROPOSED CLEANOUT LOCATION NEW SANITARY SEWER FOR ADU IS CONNECTED TO EXISTING 4" ABS SEWER LATERAL

SHEET NOTES

- PROPERTY LINE
- GAS METER LOCATION: EXISTING: NO NEW GAS METER
- NEW 200 AMP ELECTRICAL PANEL FOR ADU NEXT TO EXISTING 200 AMP MAIN PANEL FOR PRIMARY DWELLING UNIT. THERE SHALL BE A MIN. 30" WIDE X 36" DEEP CLEAR WORKING SPACE IN FRONT OF THE PANEL AS PER CEC 110.26
- EXISTING STRUCTURE: NO CHANGE
- REQUIRED OFF-STREET PARKING SPACE: 9' X 19'
- PROPOSED GATE TO REAR YARD: GATE SHALL BE MIN. 48" IN WIDTH AND SHALL REMAIN UNLOCKED (LATCH IS OK)
- PROPOSED MIN. 48" WIDE PAVED WALKWAY FROM THE FRONT OF THE PROPERTY (OR PUBLIC SIDEWALK) TO THE ENTRANCE DOOR OF THE ADU
- EXISTING SHED: TO BE REMOVED
- EXISTING PLAY STRUCTURE: TO BE REMOVED
- ADU SETBACK REQUIREMENTS
- PROPOSED ADU
- PROPOSED STACKED WASHER / DRYER: EXHAUST DUCT TERMINATION SHALL BE 3 FEET FROM OPENINGS INTO THE BUILDING PER CMC 502.2.
- PROPOSED WATER HEATER: NEEA HEAT PUMP MODEL: RHEEM PROPH50 T2 RH375-15. WATER HEATERS SHALL BE ANCHORED OR STRAPPED, STRAPS SHALL BE AT POINTS WITHIN THE UPPER ONE-THIRD AND LOWER ONE-THIRD OF THE VERTICAL DIMENSIONS. THE LOWER STRAP MUST BE HELD A MINIMUM OF 4 INCHES ABOVE THE CONTROLS PER CPC 507.2.
- PROPOSED ELECTRIC STOVE W/ MICROHOOD: EXHAUST DUCT TERMINATION SHALL BE 3 FEET FROM OPENINGS INTO THE BUILDING PER CMC 502.2. AND SHALL COMPLY WITH THE REQUIREMENT UNDER CENC TABLE 150.0-G
- PROPOSED DUCTED HEAT PUMP HVAC WITH A MINIMUM HEATING VALUE OF 9.5 HSPF2 AND A COOLING VALUE OF 16 SEER / 12 EER: DUCTS TO BE IN ATTIC SPACE. THE OUTDOOR UNIT MUST BE INSTALLED A MINIMUM 3 FEET FROM THE PROPERTY LINE. PROVIDE A MINIMUM 3" SLAB UNDERNEATH CONDENSER AND ATTACH UNIT TO THE SLAB. OUTDOOR CONDENSING UNITS SHALL HAVE A CLEARANCE OF AT LEAST 5 FEET FROM THE OUTLET OF ANY DRYER VENT (CENC 150.0(H)3A) A READILY ACCESSIBLE APPROVED DISCONNECT MUST BE INSTALLED ON THE ELECTRIC SUPPLY ADJACENT TO AND IN SIGHT FROM THE EQUIPMENT (CMC 303.8.5) (CEC 440.14). A CLEAR WORKING SPACE 30" WIDE X 36" DEEP MUST BE PROVIDED IN FRONT OF THE DISCONNECT (CEC 110.26(A)). A 15- OR 20-AMP RECEPTACLE OUTLET MUST BE INSTALLED AT AN ACCESSIBLE LOCATION FOR THE SERVICING OF THE HEATING AND AIR CONDITIONING EQUIPMENT. THE RECEPTACLE SHALL BE LOCATED ON THE SAME LEVEL AND WITHIN 25 FEET OF THE EQUIPMENT. THE RECEPTACLE OUTLET SHALL NOT BE CONNECTED ON THE LOAD SIDE OF THE DISCONNECT SWITCH. (CMC 301.4) (CEC 210.63) RECEPTACLES LOCATED OUTDOORS SHALL BE GFCI (CEC 210.8).
- PROPOSED VERTICAL SCREENING EVERGREEN LANDSCAPING
- PROPOSED GARBAGE DISPOSAL W/ BUTTON
- POSSIBLE SOLAR PV ARRAY LOCATION
- EXISTING PERGOLA: NO CHANGE
- STEP HEIGHT AT ENTRY DOOR TO BE 4". MAX STEP HEIGHT IS 7-3/4" BELOW THE TOP OF THRESHOLD AS PER CRC 311.3.1 EXCEPTION.
- GLAZING IN FIXED AND OPERABLE PANELS OF SLIDING DOORS SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION, IT SHALL BE OF TEMPERED GLASS PER CRC R308.4.1.
- WINDOW IS LESS THAN 60" MEASURED HORIZONTALLY FROM BATHTUB SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION AND BE TEMPERED GLASS PER CRC R308.4.5 EXCEPTION.
- WIDTH OF THE HALLWAY TO THE PRIMARY BEDROOM SHALL NOT BE LESS THAN 36" PER CRC R311.6.
- ATTIC ACCESS FOR ADU AS PER CRC R807.1. ROUGH-FRAMED OPENING SHALL BE NOT LESS THAN 22 INCHES BY 30 INCHES AND LOCATED IN A CEILING WHERE MINIMUM UNOBSTRUCTED HEAD ROOM IN THE ATTIC SPACE IS 30 INCHES.
- ALL THE RECEPTACLES IN EXTERIOR SHALL BE GFCI, WEATHERPROOF (WP) AND WEATHER-RESISTANT (WR) PER CEC 210.8 AND 406.9.
- EXTERIOR LIGHTING SHALL BE CONTROLLED BY A PHOTOCELL AND A MOTION SENSOR OR AN AUTOMATIC TIME SWITCH CONTROL, OR CONTROLLED BY AN ASTRONOMICAL TIME CLOCK CONTROL PER CENC 150.0(K)3.
- LUMINAIRE SHALL BE CONTROLLED BY AN OCCUPANT OR VACANCY SENSOR PROVIDING AUTOMATIC-OFF FUNCTIONALITY PER CENC 150.0 (K) 2E. AND SHALL BE A HIGH-EFFICACY LIGHT FIXTURE PER CENC 150.0(K)5.
- EXHAUST FAN MUST BE CONTROLLED BY HUMIDITY CONTROL PER CGBC 4.506.1(2). PROVIDE MIN. OF 50 CFM WITH MAX. RATING OF 3.0 SONES PER CMC TABLE 403.7 & CRC 303.3.
- PROPOSED O'HAGIN ROOF VENT PROVIDING MIN 72 SQ. IN. NET VENTILATION
- 36" MIN REQUIRED PV PATHWAY
- VENTILATION SYSTEM THAT SERVES AS IAQ WITH 52 CFM MIN. EXHAUST RATE
- THE MANUAL SWITCH OF THE VENTILATION SYSTEM PROVIDED FOR IAQ REQUIRED PER T-24 SHALL HAVE A LABEL "THIS SWITCH CONTROLS THE INDOOR AIR QUALITY VENTILATION FOR THE HOME. LEAVE IT ON UNLESS THE OUTDOOR AIR QUALITY IS VERY POOR" PER CENC 150.0(O)1.1.
- IAQ VENTILATION SYSTEM EXHAUST VENT
- SUPPLY REGISTER AND RETURN GRILL LOCATIONS FOR HVAC SYSTEM

EXTERIOR MATERIAL NOTES

NOTE: NOT ALL NOTES ARE USED ON EVERY SHEET

- | | |
|-----------------------------------|----------------------|
| A PLASTER: MATCH PRIMARY DWELLING | D VINYL WINDOWS |
| B ASPHALT SHINGLE ROOFING | C SLIDING GLASS DOOR |
| | E ENTRY DOOR |

CEILING LEGEND

- | | |
|---|---------------------------------------|
| C1 SEE 5/A4.1 FOR CEILING/FLOOR DETAIL | C2 SEE 6/A4.1 FOR CEILING/ROOF DETAIL |
| CO2 + SMOKE DETECTOR | SUPPLY REGISTER |
| UNDERCABINET STRIP LIGHT | 4" RECESSED LED |
| OUTDOOR SCENCE | VANITY SCENCE |
| 4" EXHAUST FAN: DUCT TERMINATION SHALL BE 3 FEET FROM OPENINGS INTO THE BUILDING PER CMC 502.2. | |

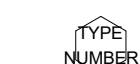
WALL LEGEND

- | | | |
|----------|---------------|---------------|
| NEW WALL | W1 SEE 3/A4.1 | W2 SEE 4/A4.1 |
|----------|---------------|---------------|

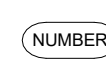
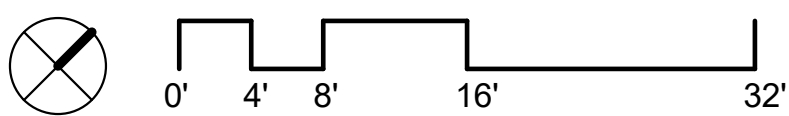
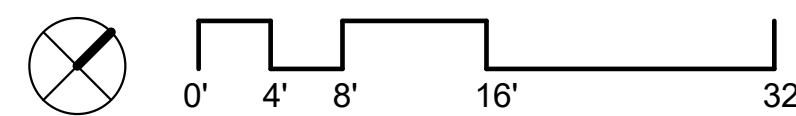
FLOOR LEGEND

- | | |
|---------|--------------------|
| PAVING | LUXURY VINYL PLANK |
| DECKING | TILE FLOORING |

WINDOW LEGEND



DOOR LEGEND

SITE PLAN_EXISTING 1
3/32" = 1'-0"SITE PLAN_PROPOSED 2
3/32" = 1'-0"

REMARKS

REV	DATE	REMARKS
0	02-13-2023	BUILDING PERMIT
1	05-13-2023	REVISION 1
2	07-24-2023	REVISION 2
3	10-04-2023	REVISION 3



SIGN

DATE:

DATE:

SCALE:

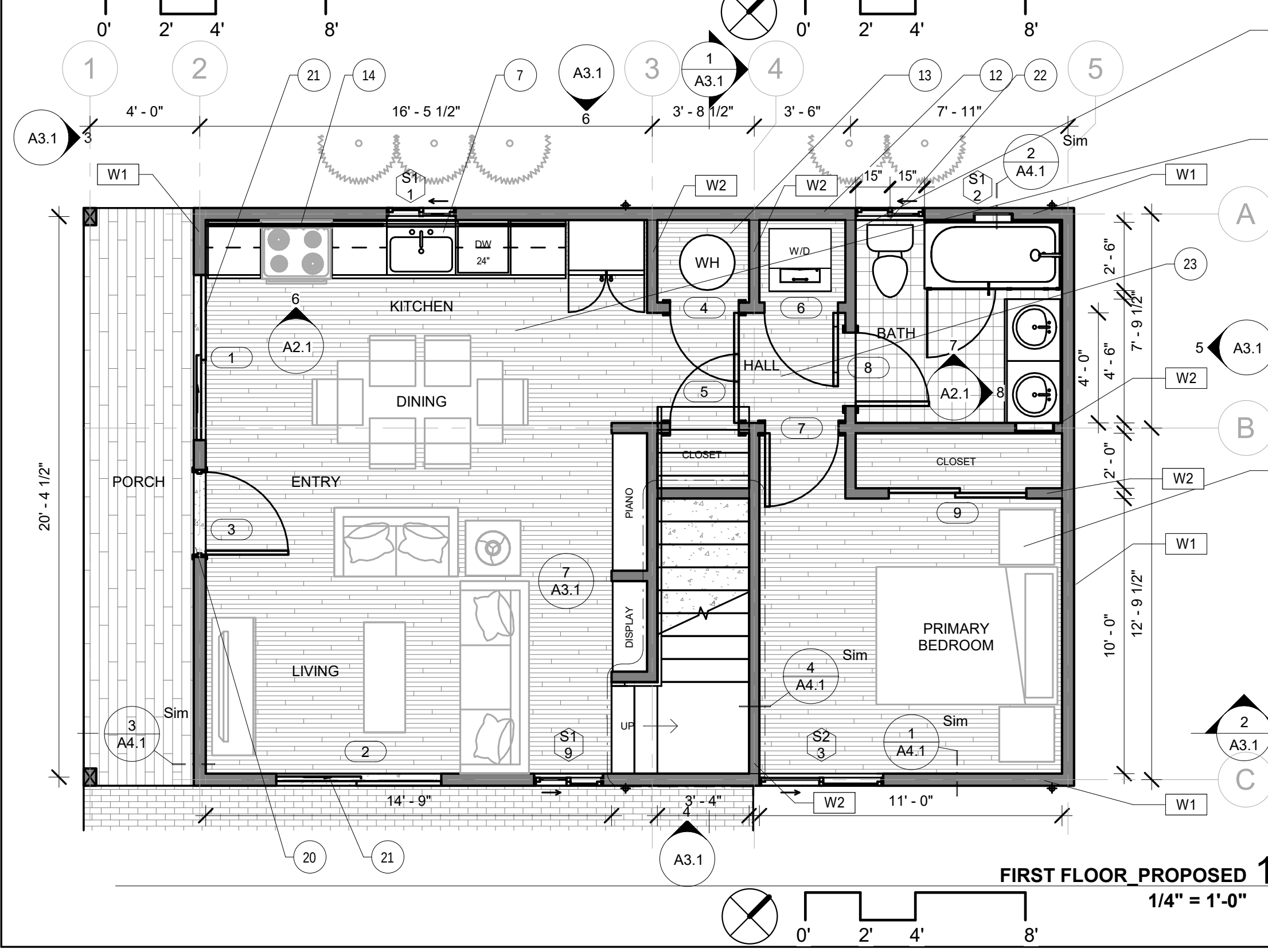
DRAWN BY: NC

CKD BY: NC

PROJECT#: 202212048

A1.0

SITE PLAN



DOOR SCHEDULE						
MARK	ROOM	TYPE	WIDTH	HEIGHT	EXTERIOR	TEMPERED GLASS
1	DINING	SG	6' - 0"	6' - 8"	Y	Y
2	LIVING	SG	6' - 0"	6' - 8"	Y	Y
3	ENTRY	D	3' - 0"	6' - 8"	Y	
4	WATER HEATER	P	2' - 6"	6' - 8"		
5	CLOSET	P	2' - 6"	6' - 8"		
6	WASHER / DRYER	p	2' - 8"	6' - 8"		
7	PRIMARY BEDROOM	P	2' - 8"	6' - 8"		
8	BATH	P	2' - 8"	6' - 8"		
9	CLOSET	S	5' - 0"	6' - 8"		
10	FURNACE	P	2' - 6"	6' - 8"		
11	BEDROOM	P	2' - 8"	6' - 8"		
12	CLOSET	S	5' - 0"	6' - 8"		

DUTCH

D

PANEL

P

SLIDING

S

SLIDING GLASS

SG

SLIDER

S1

S2

S2

DOOR LEGEND ?

OPENING OF NOT LESS THAN 100 SQUARE INCHES AT WASHER/DRYER CLOSET

WHERE A CLOSET IS DESIGNED FOR THE INSTALLATION OF A CLOTHES DRYER, AN OPENING OF NOT LESS THAN 100 SQUARE INCHES FOR MAKEUP AIR SHALL BE PROVIDED IN THE DOOR AS PER CMC 504.4.1.

ELECTRICAL AND LIGHTING NOTES

A. AFCI PROTECTION IS REQUIRED IN HALLWAYS, LIVING ROOMS,

LOFT: 81 SOFT
GLAZING AREA REQUIREMENT CBC 2022 SEC 1204.2
REQUIRED (6%)
PROVIDED (4 + 5)
OPENABLE AREA REQUIREMENT CBC 2022 SEC 1202.5.1
REQUIRED (4%)
PROVIDED (4 + 5)

6.5 SQFT
21.0 SQFT

3.3 SQFT
10.0 SQFT

B. GFCI OUTLETS SHALL NOT MORE THAN 12" FROM THE TOP OF COUNTER.

C. ALL LIGHTING TO BE HIGH EFFICACY. CENC 150.0(K)(1)(A).

D. FIXTURES INSTALLED IN WET OR DAMP LOCATIONS SHALL BE MARKED, "SUITABLE FOR WET LOCATIONS" PER CEC SECTION

DINING ROOMS, CLOSETS, LAUNDRY AREAS, OR SIMILAR ROOMS OR AREAS. CEC 210.12(A).

208/230V
CEILING HEIGHT
8' - 0"

F. 200 AMP SUB ELECTRICAL PANEL. UFER GEC IS REQUIRED, AND A

BEDROOM: 117 SF		MAIN BONDING JUMPER SHALL NOT BE INSTALLED IN THE SUBPANEL.	
<u>GLAZING AREA REQUIREMENT CBC 2022 SEC 1204.2</u>			
REQUIRED (8%)	9.4 SQFT		
PROVIDED (5)	13.5 SQFT		
<u>OPENABLE AREA REQUIREMENT CBC 2022 SEC 1202.5.1</u>			
REQUIRED (4%)	4.7 SQFT		
PROVIDED (5)	6.5 SQFT		
<u>EMERGENCY ESCAPE AND RESCUE CBC 2022 SEC 1031.3</u>			
MIN NET CLEAR OPENING	5.7 SQFT		
		MECHANICAL NOTES	
		G. INDOOR AIR HANDLER BRAND (LENNOX), MODEL NAME (CBA27UHE) OR EQUIVALENT TO BE INSTALLED AS SPECIFIED ON THE T-24 ENERGY COMPLIANCE FORMS. SEE 11/A4.1 FOR CUT	

PROVIDED (5)	6.5 SQ FT	SHEET.	Diagram showing a ceiling-mounted outdoor heat pump unit. The unit is rectangular with a circular access panel on top. Dimensions include: MIN NET CLEAR OPENING HEIGHT (24 IN), PROVIDED NET CLEAR OPENING HEIGHT (36 IN), MIN NET CLEAR OPENING WIDTH (20 IN), PROVIDED NET CLEAR OPENING WIDTH (26 IN), MAXIMUM HEIGHT FROM FLOOR (44 IN), and PROVIDED (36 IN). A label 'H. OUTDOOR HEAT PUMP BRAND (LENNOX), MODEL NAME (ML16MP1) OR EQUIVALENT TO BE INSTALLED AS SPECIFIED ON THE T-24 ENERGY COMPLIANCE FORMS. SEE 12/A4.1 FOR CUT SHEET.' points to the unit. A dimension 'CEILING HEIGHT 8' - 0"' is shown from the ceiling to the top of the unit.
MIN NET CLEAR OPENING HEIGHT	24 IN		
PROVIDED NET CLEAR OPENING HEIGHT (5)	36 IN		
MIN NET CLEAR OPENING WIDTH	20 IN		
PROVIDED NET CLEAR OPENING WIDTH (5)	26 IN		
MAXIMUM HEIGHT FROM FLOOR	44 IN		
PROVIDED (5)	36 IN		

WINDOW SILL HEIGHT (5)	3" - 0"	I KITCHEN RANGE HOOD TO HAVE MINIMUM 130 CFM TO COMPLY WITH THE REQUIREMENT UNDER CENC TABLE 150.0-G. J CLOTHES DRYER EXHAUST DUCTS SHALL TERMINATE TO THE OUTSIDE OF THE BUILDING AS PER SECTION 502.2.1 AND SHALL BE EQUIPPED WITH A BACKDRAFT DAMPER. K WHERE A CLOSET IS DESIGNED FOR THE INSTALLATION OF A CLOTHES DRYER, AN OPENING OF NOT LESS THAN 100 SQUARE	
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2 X 8 REINFORCEMENT ALONG WALL ADJACENT TO WATER CLOSET FOR GRAB BAR PER CRC 327.1.1.1

KITCHEN / DINING / LIVING: 306 SQFT
GLAZING AREA REQUIREMENT CBC 2022 SEC 1204.2
REQUIRED (8%) 24.5 SQFT
PROVIDED (1 + 9 + 1(DOOR) + 2(DOOR)) 95.0 SQFT
OPENABLE AREA REQUIREMENT CBC 2022 SEC 1202.5.1
REQUIRED (4%) 12.3 SQFT
PROVIDED (1 + 9 + 1(DOOR) + 2(DOOR)) 45.9 SQFT

BEDROOM: 117 SF
GLAZING AREA REQUIREMENT CBC 2022 SEC 1204.2
REQUIRED (8%)
PROVIDED (3)

9.4 SQFT
 13.5 SQFT

<u>OPENABLE AREA REQUIREMENT CBC 2022 SEC 1202.5.1</u>	
REQUIRED (4%)	4.7 SQFT
PROVIDED (3)	6.5 SQFT
<u>EMERGENCY ESCAPE AND RESCUE CBC 2022 SEC 1031.3</u>	
MIN NET CLEAR OPENING HEIGHT	5.7 SQFT
PROVIDED (3)	6.5 SQFT

MIN NET CLEAR OPENING HEIGHT
24 IN
PROVIDED NET CLEAR OPENING HEIGHT (3)
36 IN
MIN NET CLEAR OPENING WIDTH
20 IN
PROVIDED NET CLEAR OPENING WIDTH (3)
26 IN
MAXIMUM HEIGHT FROM FLOOR
44 IN
PROVIDED (3)
36 IN
WINDOW SILL HEIGHT
(5)
3' - 0"

CEILING HEIGHT
8' - 0"

CEILING HEIGHT
8' - 0"

C2

34

FIRST FLOOR LIGHTING AND ELECTRICAL

SHEET NOTES

1. PROPERTY LINE
2. GAS METER LOCATION: EXISTING: NO NEW GAS METER
3. NEW 200 AMP ELECTRICAL PANEL FOR ADU NEXT TO EXISTING 200 AMP MAIN PANEL FOR PRIMARY DWELLING UNIT. THERE SHALL BE A MIN. 30" WIDE X 36" DEEP CLEAR WORKING SPACE IN FRONT OF THE PANEL AS PER CEC 110.26
4. EXISTING STRUCTURE: NO CHANGE
5. REQUIRED OFF-STREET PARKING SPACE: 9' X 19'
6. PROPOSED GATE TO REAR YARD: GATE SHALL BE MIN. 48" IN WIDTH AND SHALL REMAIN UNLOCKED (LATCH IS OK)
7. PROPOSED MIN. 48" WIDE PAVED WALKWAY FROM THE FRONT OF THE PROPERTY (OR PUBLIC SIDEWALK) TO THE ENTRANCE DOOR OF THE ADU
8. EXISTING SHED: TO BE REMOVED
9. EXISTING PLAY STRUCTURE: TO BE REMOVED
10. ADU SETBACK REQUIREMENTS
11. PROPOSED ADU
12. PROPOSED STACKED WASHER / DRYER: EXHAUST DUCT TERMINATION SHALL BE 3 FEET FROM OPENINGS INTO THE BUILDING PER CMC 502.2
13. PROPOSED WATER HEATER: NEEA HEAT PUMP MODEL: RHEEM PROPH50 T2 RH375-15. WATER HEATERS SHALL BE ANCHORED OR STRAPPED. STRAPS SHALL BE AT POINTS WITHIN THE UPPER ONE-THIRD AND LOWER ONE-THIRD OF THE VERTICAL DIMENSIONS. THE LOWER STRAP MUST BE HELD A MINIMUM OF 4 INCHES ABOVE THE CONTROLS PER CPC 507.2
14. PROPOSED ELECTRIC STOVE W/ MICROHOOD: EXHAUST DUCT TERMINATION SHALL BE 3 FEET FROM OPENINGS INTO THE BUILDING PER CMC 502.2. AND SHALL COMPLY WITH THE REQUIREMENT UNDER CENC TABLE 150.0-G
15. PROPOSED DUCTED HEAT PUMP HVAC WITH A MINIMUM HEATING VALUE OF 9.5 HPSP2 AND A COOLING VALUE OF 16 SEER / 12 EER: DUCTS TO BE IN ATTIC SPACE. THE OUTDOOR UNIT MUST BE INSTALLED A MINIMUM 3 FEET FROM THE PROPERTY LINE. PROVIDE A MINIMUM 3" SLAB UNDERNEATH CONDENSATE AND ATTACH UNIT TO THE SLAB. OUTDOOR CONDENSING UNITS SHALL HAVE A CLEARANCE OF AT LEAST 5 FEET FROM THE OUTLET OF ANY DRYER VENT (CENC 150.0(H)3A) A READILY ACCESSIBLE APPROVED DISCONNECT MUST BE INSTALLED ON THE ELECTRIC SUPPLY ADJACENT TO AND IN SIGHT FROM THE EQUIPMENT (CMC 303.8.5) (CEC 440.14). A CLEAR WORKING SPACE 30" WIDE X 36" DEEP MUST BE PROVIDED IN FRONT OF THE DISCONNECT (CEC 110.26(A) 15- OR 20-AMP RECEPTACLE OUTLET MUST BE INSTALLED AT AN ACCESSIBLE LOCATION FOR THE SERVICING OF THE HEATING AND AIR CONDITIONING EQUIPMENT. THE RECEPTACLE SHALL BE LOCATED ON THE SAME LEVEL AND WITHIN 25 FEET OF THE EQUIPMENT. THE RECEPTACLE OUTLET SHALL NOT BE CONNECTED ON THE LOAD SIDE OF THE DISCONNECT SWITCH. (CMC 301.4) (CEC 210.63) RECEPTACLES LOCATED OUTDOORS SHALL BE GFCI (CEC 210.8).
16. PROPOSED VERTICAL SCREENING EVERGREEN LANDSCAPING
17. PROPOSED GARBAGE DISPOSAL W/ BUTTON
18. POSSIBLE SOLAR PV ARRAY LOCATION
19. EXISTING PERGOLA: NO CHANGE
20. STEP HEIGHT AT ENTRY DOOR TO BE 4". MAX STEP HEIGHT IS 7-3/4" BELOW THE TOP OF THRESHOLD AS PER CRC 311.3.1 EXCEPTION.
21. GLAZING IN FIXED AND OPERABLE PANELS OF SLIDING DOORS SHALL BE CONSIDERED TO BE HAZARDOUS LOCATION. IT SHALL BE OF TEMPERED GLASS PER CRC R308.4.1.
22. WINDOW IS LESS THAN 60" MEASURED HORIZONTALLY FROM BATHTUB SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION AND BE TEMPERED GLASS PER CRC R308.4.5 EXCEPTION.
23. WIDTH OF THE HALLWAY TO THE PRIMARY BEDROOM SHALL NOT BE LESS THAN 36" PER CRC R311.6.
24. ATTIC ACCESS FOR ADU AS PER CRC R807.1. ROUGH-FRAMED OPENING SHALL BE NOT LESS THAN 22 INCHES BY 30 INCHES AND LOCATED IN A CEILING WHERE MINIMUM UNOBSTRUCTED HEAD ROOM IN THE ATTIC SPACE IS 30 INCHES.
25. ALL THE RECEPTACLES IN EXTERIOR SHALL BE GFCI, WEATHERPROOF (WP) AND WEATHER-RESISTANT (WR) PER CEC 210.8 AND 406.9.
26. EXTERIOR LIGHTING SHALL BE CONTROLLED BY A PHOTOCELL AND A MOTION SENSOR OR AN AUTOMATIC TIME SWITCH CONTROL OR CONTROLLED BY AN ASTRONOMICAL TIME CLOCK CONTROL PER CENC 150.0(K)3.
27. LUMINAIRE SHALL BE CONTROLLED BY AN OCCUPANT OR VACANCY SENSOR PROVIDING AUTOMATIC-OFF FUNCTIONALITY PER CENC 150.0 (K) 2E. AND SHALL BE A HIGH-EFFICACY LIGHT FIXTURE PER CENC 150.0(K)5.
28. EXHAUST FAN MUST BE CONTROLLED BY HUMIDITY CONTROL PER CGBC 4.506.1(2). PROVIDE MIN. OF 50 CFM WITH MAX. RATING OF 3.0 SONES PER CM TABLE 403.7 & CRC 303.3.
29. PROPOSED O'HAGIN ROOF VENT PROVIDING MIN 72 SQ. IN. NET VENTILATION
30. 36" MIN REQUIRED PV PATHWAY
31. VENTILATION SYSTEM THAT SERVES AS IAQ WITH 52 CFM MIN. EXHAUST RATE
32. THE MANUAL SWITCH OF THE VENTILATION SYSTEM PROVIDED FOR IAQ REQUIRED PER T-24 SHALL HAVE A LABEL "THIS SWITCH CONTROLS THE INDOOR AIR QUALITY VENTILATION FOR THE HOME. LEAVE IT ON UNLESS THE OUTDOOR AIR QUALITY IS VERY POOR" PER CENC 150.0(O)1.1.
33. IAQ VENTILATION SYSTEM EXHAUST VENT
34. SUPPLY REGISTER AND RETURN GRILL LOCATIONS FOR HVAC SYSTEM

EXTERIOR MATERIAL NOTES

NOTE: NOT ALL NOTES ARE USED ON EVERY SHEET

A. PLASTER: MATCH PRIMARY DWELLING	C. VINYL WINDOWS
B. ASPHALT SHINGLE ROOFING	D. SLIDING GLASS DOOR

CEILING LEGEND

C1 SEE S/A4.1 FOR CEILING/FLOOR DETAIL	C2 SEE S/A4.1 FOR CEILING/ROOF DETAIL
CO2 + SMOKE DETECTOR	SUPPLY REGISTER
UNDERCABINET STRIP LIGHT	4" RECESSED LED
OUTDOOR SCENCE	VANITY SCENCE
O 4" EXHAUST FAN: DUCT TERMINATION SHALL BE 3 FEET FROM OPENINGS INTO THE BUILDING PER CMC 502.2.	

WALL LEGEND

NEW WALL	W1 SEE S/A4.1
	W2 SEE S/A4.1

FLOOR LEGEND

PAVING	LUXURY VINYL PLANK
DECKING	TILE FLOORING

WINDOW LEGEND

2
A3.1
C

C1

FLOOR PLAN 1/4" = 1'-0"

WALL LEGEND

NEW WALL	W1 SEE S/A4.1
	W2 SEE S/A4.1

FLOOR LEGEND

PAVING	LUXURY VINYL PLANK
DECKING	TILE FLOORING

WINDOW LEGEND

2
A3.1
C

C1

A3.1

ELEVATIONS /
SECTIONS

HEAT PUMP SPEC¹²

R-5 FOAM INSULATION CUT SHEET 13

ELECTRICAL RECEPTACLE OUTLETS, SWITCHES, AND CONTROLS INTENDED TO BE USED BY OCCUPANTS SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE OUTLET BOX AND NOT LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE OUTLET BOX ABOVE THE FINISH FLOOR AS PER CRC R327.1.2. _____

INDOOR AIR HANDLER SPEC¹¹

OHAGIN VENT CUT SHEET10

MOUNTING HEIGHTS 9

RWL COLLECTOR DETAIL 8
3" = 1'-0"

SHOWER (TUB SIMILAR) INSTALLATION SEQUENCE **7**
1 1/2" = 1'-0"

SEALING —
3/4" CDT GRX PLYWOOD, GLUENAILED (P.L. = 48/24) 10d NAILS @ 6"/16", S.S.D.

JOISTS —
2" X 12" WOOD FRAMING AT 16" O.C., S.S.D.

RESILIENT CHANNELS —
FORMED FROM MIN 25 MSG GALV STEEL SPACED MAX 24 IN. OC PERPENDICULAR TO JOISTS. ADDITIONAL RESILIENT CHANNELS USED AT BUTT JOINTS AND EXTEND MINIMUM 1 JOIST CAVITY AT EACH EDGE OF THE GYPSUM BOARD.

FRAMING MEMBERS* —
A RESILIENT SOUND ISOLATION ACCESSORY SHALL BE USED AT EACH ATTACHMENT POINT OF THE RESILIENT CHANNEL AND SPACED MAX 16 IN. O.C. CHANNEL ENDS BUTTED AND CENTERED UNDER THE JOISTS AND ATTACHED TO THE JOISTS WITH ONE ACCESSORY AT EACH END. ADDITIONAL ACCESSORIES USED TO HOLD RESILIENT CHANNELS THAT SUPPORT THE GYPSUM BOARD END JOINTS. THE ACCESSORY ENVELOPES THE MOUNTING EDGE OF THE RESILIENT CHANNEL. THE ACCESSORY AND RESILIENT CHANNEL ARE FASTENED TO THE JOISTS WITH THE SCREWS SUPPLIED WITH THE ACCESSORY AND PER THE ACCESSORY MANUFACTURER'S INSTALLATION INSTRUCTIONS. (PRODUCT SHALL BEAR THE UL CERTIFICATION MARK) (ACOUSTIC PROPERTIES L L C — TYPES RC-1 BOOST, RC BOOST DELUXE C-D.)

GYPSUM BOARD* —
NOM 1/2 IN. THICK, 48 IN. WIDE GYPSUM BOARD. GYPSUM BOARD INSTALLED WITH LONG DIMENSION PERPENDICULAR TO RESILIENT CHANNELS AND SIDE EDGES LOCATED BETWEEN JOISTS. SECURED WITH 1-1/8 IN. LONG BULGE HEAD, HIGH-LOW THREAD STEEL SCREWS SPACED MAX 12 IN. OC. END JOINTS OF GYPSUM BOARD SIMILARLY FASTENED TO ADDITIONAL RESILIENT CHANNELS POSITIONED AT END JOINT LOCATIONS. SCREWS SHALL BE SPACED 2 IN. FROM END JOINTS AND 1 IN. FROM SIDE JOINTS. ADJACENT END JOINTS STAGGERED MIN 72 IN. (PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — TYPE PG-13.)

FINISHING SYSTEM —
PAPER TAPE EMBEDDED IN JOINT COMPOUND OVER JOINTS AND COVERED WITH 2 LAYERS OF COMPOUND WITH EDGES FEATHERED OUT. GYPSUM BOARD SCREW HEADS COVERED WITH 2 LAYERS OF COMPOUND.

CAULKING AND SEALANTS —
A BEAD OF ACOUSTICAL SEALANT APPLIED AROUND THE PARTITION PERIMETER FOR SOUND CONTROL.

* INDICATES SUCH PRODUCTS SHALL BEAR THE UL CERTIFICATION MARK

TUB SURROUND DETAIL AT FLANGE 2
3" = 1'-0"

1 1/2" = 1'-0"

WALL ASSEMBLY, SEE PLAN FOR TYPE

EXTERIOR FINISH O/ 2 LAYERS
GRADE 'D' 60 PAPER O/ TYVEK BLDG WRAP, SEE ELEVATIONS

WEEP SCREED @ STUCCO:
SHALL BE PLACED NOT LESS THAN 4 INCHES ABOVE THE EARTH OR 2 INCHES ABOVE PAVED AREAS AS PER CRC R703.7.2.1.

SLAB PER STRUCT.

BELOW GRADE WATERPROOFING SYSTEM

CONTINUOUS DRAIN MAT

4" DIA. PERF PIPE TYP. AT BUILDING PERIMETER AND ALL SUBGRADE VERT CONC SURFACES

WRAP DRAIN MAT AROUND PERF PIPE, TYP.

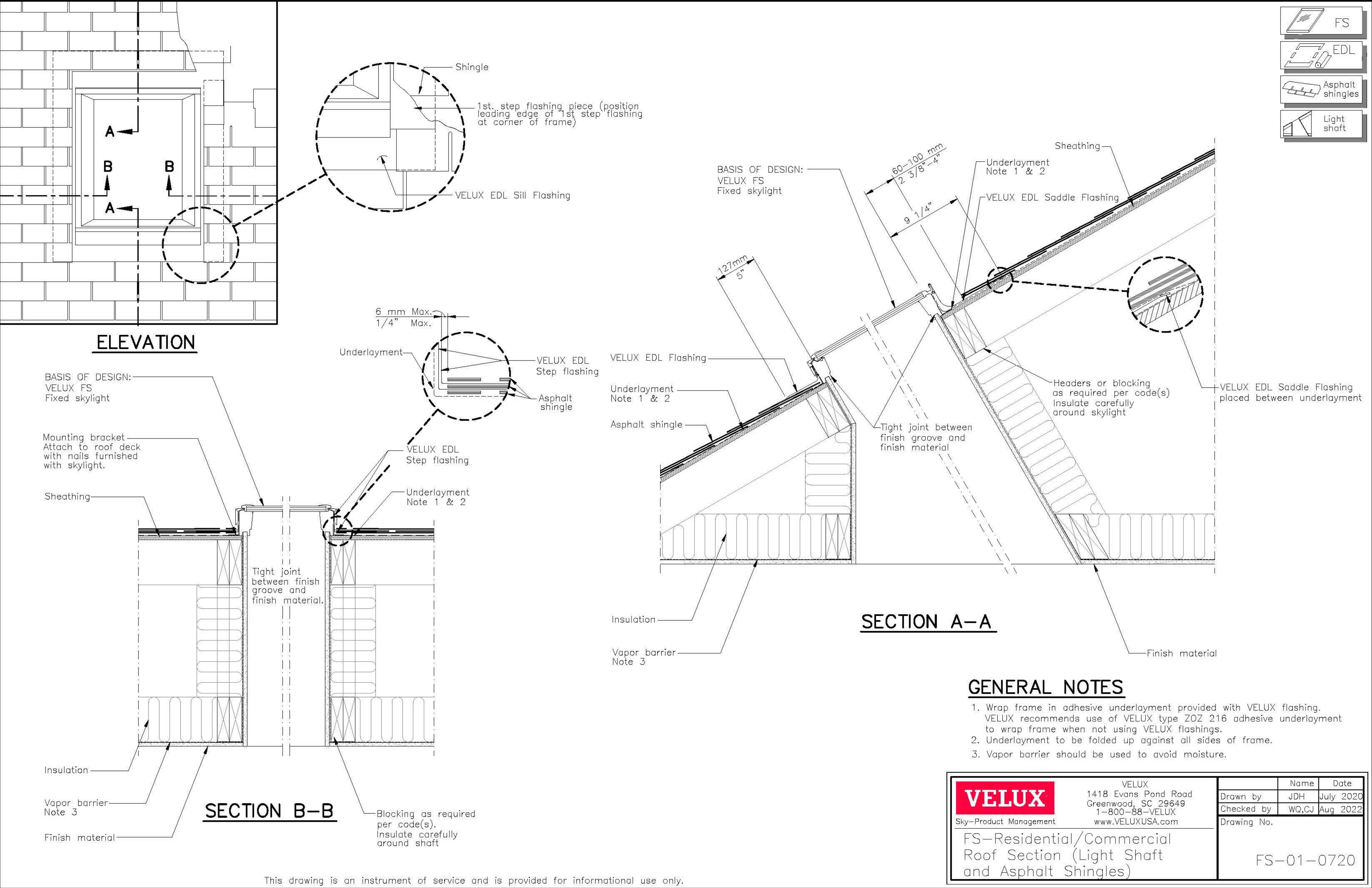
20-MIL REINFORCED VAPOR BARRIER, TYP.

2% SLOPE, MIN →

TYPICAL FOOTING/FOUNDATION DRAINAGE

1 1/2" = 1'-0"

A4.1



REV	DATE	REMARKS
0	10/13/2023	BUILDING PERMIT
1	05/13/2023	REVISION 1
2	07/24/2023	REVISION 2
3	10/04/2023	REVISION 3



SIGN	Name	Date
DATE:	JDH	July 2020
DATE:	WQ,CJ	Aug 2022
SCALE:	Drawing No.	
DRAWN BY:	Author	
CKD BY:	Checker	
PROJECT#:	202212048	

GENERAL NOTES

1. Wrap frame in adhesive underlayment provided with VELUX flashing. VELUX recommends use of VELUX type ZOZ 216 adhesive underlayment to wrap frame when not using VELUX flashings.
2. Underlayment to be folded up against all sides of frame.
3. Vapor barrier should be used to avoid moisture.

VELUX Sky-Product Management	VELUX 1418 Evans Pond Road Greenwood, SC 29649 1-800-88-VELUX www.VELUXUSA.com	Drawn by JDH	Name WQ,CJ	Date July 2020
FS-Residential/Commercial Roof Section (Light Shaft and Asphalt Shingles)		Drawing No. FS-01-0720		

This drawing is an instrument of service and is provided for informational use only.

GENERAL NOTES

- 1

ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE DRAWINGS AND SPECIFICATIONS.
- 2

DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING, BRACING AND GUYS IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY PROVISIONS. ANY DEVIATION MUST BE APPROVED PRIOR TO ERECTION.
- 3

DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED SUBJECT TO REVIEW BY THE ARCHITECT.
- 4

ALL DETAILS DESIGNATED AS STANDARD OR TYPICAL SHALL OCCUR IN ADDITION TO ANY OTHER SPECIFIC DETAIL CALLED OUT.
- 5

ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE ARCHITECT SO THAT THE PROPER REVISIONS MAY BE MADE. MODIFICATION OF DETAILS OF CONSTRUCTION SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.
- 6

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, & SITE CONDITIONS PRIOR TO THE START OF CONSTRUCTION. ALL DIMENSIONS SHALL COME FROM ARCHITECTURAL DRAWINGS, DO NOT SCALE DRAWINGS

STATEMENT OF SPECIAL INSPECTION

SPECIAL INSPECTION IS REQUIRED PER THE 2021 IBC/2022 CBC, SECTION 1704, FOR THE FOLLOWING:

- 1

PERIODIC INSPECTION IS REQUIRED FOR THE FOLLOWING:
A. NAILING, BOLTING AND ANCHORING OF PLYWOOD SHEAR WALL TYPES B, C, AND D PER THE SHEAR WALL SCHEDULE.
- 2

STRUCTURAL TESTING IS REQUIRED FOR THE FOLLOWING:
A. REINFORCING STEEL: CERTIFIED MILL TESTS SHALL BE PROVIDED FOR EACH SHIPMENT. WHERE WELDING IS SPECIFIED, A CHEMICAL TEST SHALL BE PERFORMED TO DETERMINE WELDABILITY.
- 3

EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF THE MAIN WIND OR SEISMIC FORCE RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A WIND OR SEISMIC RESISTING COMPONENT LISTED ABOVE, SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT SHALL CONTAIN THE FOLLOWING:
(1) ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.
(2) ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
(3) PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS.
(4) IDENTIFICATION AND QUALIFICATION OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.
- 4

ALL SPECIAL INSPECTORS SHALL BE HIRED DIRECTLY BY THE PROJECT OWNER AND SHALL BE LICENSED TO PERFORM THE APPLICABLE INSPECTIONS.
- 5

ALL INSPECTION REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL WITHIN 30 DAYS OF THE DATE OF THE INSPECTION.

FOUNDATIONS

- 1

SINCE NO FOUNDATION REPORT EXISTS, THE FOUNDATION DESIGN IS BASED ON THE FOLLOWING CRITERIA:

BEARING PRESSURE1500 PSF

18" INTO NAT. SOIL

PASSIVE PRESSURE100 PCF

MAX. 1000 PSF

FRICITION COEFF0.25
- IF ADVERSE SOIL CONDITIONS ARE ENCOUNTERED, A SOILS INVESTIGATION REPORT WILL BE REQUIRED.
- 2

VERTICAL EXCAVATIONS IN SOIL SHALL BE LIMITED TO 5 FEET. VERTICAL CUTS IN EXCESS OF 5 FT SHALL BE CUT BACK AT 1:1 SLOPE. WHERE IT IS IMPOSSIBLE TO SLOPE AT 1:1, A SOILS REPORT WILL BE REQUIRED TO SPECIFY A SLOT CUT OR SHORING PROCEDURE.
- 3

MINIMUM SLAB ON GRADE CONSTRUCTION UNLESS NOTED OTHERWISE ON THE PLANS SHALL BE 4 INCH CONCRETE REINFORCED WITH #4 at 16"o.c. OVER 15 mil VISQUEEN, CONFORMING TO ASTM E 1745 OVER 4 INCHES BASE OF 1/2" MIN. CLEAN AGGREGATE. THE BUILDING FLOOR SLAB SHALL BE SUPPORTED ON COMPACTED GRADE, BEDROCK, OR APPROVED SOIL.
- 4

IF TRENCHES OR EXCAVATIONS OF 5' OR MORE IN WHICH A PERSON MUST DESCEND, ARE REQUIRED, A PERMIT MUST BE OBTAINED FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO THE ISSUANCE OF A BUILDING OR GRADING PERMIT.

FRAMING LUMBER

- 1

ALL STRUCTURAL LUMBER SHALL BE DOUGLAS FIR OF THE FOLLOWING GRADES, CONFORMING TO STANDARD GRADING RULES FOR WEST COAST LUMBER, NO. 16, WITH A MAXIMUM MOISTURE CONTENT OF 19% UNLESS NOTED OTHERWISE:

RAFTERS, JOISTS, PLATESNO. 2

2x AND 4x BEAMS, STRINGERS, AND HEADERSNO. 2

6x AND 8x BEAMS, STRINGERS, AND HEADERSNO. 1

POSTS AND TIMBERSNO. 1

STUDSCONST. GRADE

BLOCKING, AND STRIPPINGSTUD GRADE.
- 2

PLYWOOD FOR ROOF SHEATHING SHALL BE CDX, UNLESS NOTED OTHERWISE. USE EXTERIOR TYPE, MINIMUM C-C GRADE, WHERE PLYWOOD IS EXPOSED TO WEATHER. PLYWOOD FOR FLOOR SHEATHING SHALL BE CDX, UNLESS NOTED OTHERWISE. ALL PLYWOOD SHALL CONFORM TO U.S. PRODUCT STANDARD PS 1-95. EACH SHEET OF PLYWOOD SHALL BE IDENTIFIED BY A REGISTERED STAMP OR BRAND OF THE DOUGLAS FIR PLYWOOD ASSOCIATION.
- 3

ALL WOOD BEARING ON CONCRETE SHALL BE PRESSURE TREATED DOUGLAS FIR.
- 4

STUDS OVER 10 FEET IN HEIGHT OR SUPPORTING 2 FLOORS AND A ROOF MUST BE 2x6"s AT 16" o.c. UNLESS NOTED OTHERWISE. FOR STUDS GREATER THAN 16 FEET, SEE PLAN. STUDS IN CRIPPLE WALLS LESS THAN 4 FEET IN HEIGHT MAY MATCH THE STUDS ABOVE.
- 5

PROVIDE 2x SOLID BLOCKING BETWEEN JOISTS AND RAFTERS AT ALL SUPPORTS. BLOCKING SHALL BE ONE PIECE AND BE THE FULL DEPTH OF THE JOIST OR RAFTER.
- 6

PROVIDE JOISTS UNDER PARTITIONS WHICH ARE PARALLEL TO THE JOISTS, PROVIDE SOLID, FULL BLOCKING UNDER PARTITIONS WHICH ARE PERPENDICULAR TO THE JOISTS.
- 7

TOP PLATE OF ALL STUD WALLS SHALL BE TWO PIECES THE SAME SIZE AS THE STUDS. SPLICES ARE TO LAP 4'-0" MINIMUM AND BE NAILED WITH 12 16d NAILS MINIMUM EACH SIDE OF JOINT.
- 8

ALL NAILS SHALL BE COMMON, BOX OR SINKER. NAILING SHALL BE PER CHAPTER 23 OF THE 2021 IBC/2022 CBC. PLEASE SEE 8/S-4.0
- 9

BOLT HOLES IN WOOD SHALL BE 1/32" TO 1/16" LARGER THE NOMINAL BOLT DIAMETER. ALL BOLTS SHALL HAVE STANDARD CUT WASHER UNDER HEAD AND NUT UNLESS NOTED OTHERWISE.
- 10

ALL BOLTS SHALL BE RETIGHTENED PRIOR TO THE APPLICATION OF SHEATHING, PLASTER, ETC.
- 11

STRUCTURAL MEMBERS SHALL NOT BE CUT FOR PIPES, ETC. UNLESS SPECIFICALLY DETAILED.
- 12

WOOD STUDS MAY BE NOTCHED TO A DEPTH OF 25% OF THE WIDTH MAXIMUM, EXCEPT INTERIOR NONBEARING STUDS WHICH MAY BE NOTCHED TO 40% OF THE WIDTH MAXIMUM. STUDS MAY BE BORED TO 40% OF THE WIDTH MAXIMUM, EXCEPT INTERIOR NONBEARING STUDS AND DOUBLED BEARING STUDS (PROVIDED NO MORE THAN TWO SUCCESSIVE DOUBLED STUDS ARE BORED) WHICH MAY BE BORED TO 60% OF THE WIDTH MAXIMUM. BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF A STUD AS A CUT OR NOTCH. IN NO CASE SHALL THE EDGE OF A BORED HOLE BE NEARER THAN 5/8" TO THE EDGE OF THE STUD.
- 13

PROVIDE FIRE STOPS AT ALL INTERSECTIONS OF STUD WALLS AT FLOOR, CEILING, AND ROOF. FIRE STOPS SHALL BE 2x NOMINAL THICKNESS OF WOOD AND SHALL BE THE FULL WIDTH OF THE ENCLOSED SPACE. PLACE FIRE STOPS AT A MAXIMUM SPACING OF 8'-0" IN EACH DIRECTION AND AT THE SAME LINES AS THE FIRE STOPS IN ADJACENT WALLS.
- 14

NAILS OR OTHER FASTENERS CONNECTING TO P.T. LUMBER MUST BE HOT DIPPED ZINC COATED GALVANIZED STEEL OR STAINLESS STEEL

MANUFACTURER LUMBER

- 1

TJI ALL PLYWOOD WEB JOISTS SPECIFIED ARE MANUFACTURED BY WEYERHAEUSER. LARR #25538, ICC-ESR #1153.
- 2

TJL ALL OPEN WEB JOISTS SPECIFIED ARE MANUFACTURED BY WEYERHAEUSER. LARR #22614, ICC-ESR #1774.
- 3

MICROLLAM LVL ALL MICROLLAMS SPECIFIED ARE MANUFACTURED BY WEYERHAEUSER. LARR #25202, ICC-ESR #1387.
- 4

PARALLAM PSL ALL PARALLAMS SPECIFIED ARE MANUFACTURED BY WEYERHAEUSER. LARR #25202, ICC-ESR #1387.
- 5

TIMBERSTRAND LSL ALL TIMBERSTRAND MEMBERS SPECIFIED ARE MANUFACTURED BY WEYERHAEUSER. LARR #25202, ICC-ESR #1387.
- 6

ALTERNATE MANUFACTURERS MAY BE USED SUBJECT TO THE APPROVAL OF THE ARCHITECT AND THE ENGINEER. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY INFORMATION TO THE ARCHITECT AND ENGINEER FOR APPROVAL.

LOAD CRITERIA

(DL: dead load; LL: live load)

ROOF	DL: 20 psf	LL: 20 psf
FLOOR	DL: 15 psf	LL: 40 psf

CONCRETE

- 1

ALL CONCRETE, UNLESS NOTED OTHERWISE, SHALL BE REGULAR WEIGHT, HARD ROCK TYPE (150 PCF). AGGREGATES SHALL CONFORM TO ASTM C33 WITH PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN 0.05%.
- 2

ULTIMATE COMPRESSIVE STRENGTHS AT 28 DAYS SHALL BE:

SLAB ON GRADE2500 PSI

CONTINUOUS FTGS2500 PSI

PAD FOOTINGS2500 PSI

RETAINING WALLS2500 PSI

GRADE BEAMS3000 PSI

CAISSONS/PILES3000 PSI
- 3

CEMENT SHALL CONFORM TO ASTM C150, TYPE II.
- 4

PLACEMENT OF CONCRETE SHALL CONFORM WITH THE REQUIREMENTS OF ACI 301.
- 5

CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF (5) FIVE DAYS AFTER PLACEMENT. ALTERNATE METHODS WILL BE APPROVED IF SATISFACTORY PERFORMANCE CAN BE ASSURED.
- 6

KEYED CONSTRUCTION JOINTS SHALL BE USED IN ALL CASES. ALL LAITANCE SHALL BE REMOVED. ALL VERTICAL JOINTS SHALL BE THOROUGHLY WETTED AND SLUSHED WITH A COAT OF NEAT CEMENT IMMEDIATELY BEFORE PLACING NEW CONCRETE.
- 7

ALL CONCRETE WITH A DESIGNATED STRENGTH GREATER THAN 2500 PSI SHALL REQUIRE CONTINUOUS INSPECTION BY AN INSPECTOR APPROVED BY THE BUILDING DEPARTMENT AND THE ARCHITECT.
- 8

MINIMUM CONCRETE COVERAGE OF REINFORCING STEEL SHALL BE AS FOLLOWS:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO SOIL ... 3"

CONCRETE EXPOSED TO SOIL OR WEATHER:

#5 BARS, W31 OR D31 WIRES, AND SMALLER 1½"

#6 BARS AND LARGER 2"

CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH SOIL: SLABS, WALLS AND JOISTS:

#11 BARS AND SMALLER 3/4"

#14 BARS AND LARGER 1½"

BEAMS AND COLUMNS 1½"
- 9

PIPES OTHER THAN ELECTRICAL CONDUITS SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED.
- 10

BEFORE NEW CONCRETE IS DEPOSITED ON OR AGAINST CONCRETE WHICH IS SET, THE SURFACE OF THE SET CONCRETE SHALL BE ROUGHENED SUFFICIENTLY TO EXPOSE THE AGGREGATE APPROXIMATELY 1/4" AND CLEANED. USE EPOXY WHERE REQUIRED.
- 11

EXPANSION BOLTS SHALL BE HILTI "KWIK TZ" BOLTS; LARR #25701, ICC-ESR #1917.
- 12

NON-SHRINK GROUT/DRYPACK MUST BE 6,000 PSI MIN. WITH CURRENT ICBO RESEARCH REPORT.

REINFORCING STEEL

- 1

ALL REINFORCING STEEL, DOWELS, AND TIES SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE. #3 BARS SHALL BE ASTM A615, GRADE 40.
- 2

ALL REINFORCING STEEL SHALL BE LAPPED AS INDICATED ON THE DRAWINGS. WHERE LAPS AND/OR SPLICE LOCATIONS ARE NOT SPECIFICALLY INDICATED, VERIFY WITH THE ENGINEER IF A SPLICE CAN BE PROVIDED. ALL REINFORCING STEEL SHALL BE LAPPED WITH A CLASS "B" LAP UNLESS NOTED OTHERWISE. ALL SPLICE LOCATIONS SHALL BE SHOWN ON SHOP DRAWINGS AND APPROVED PRIOR TO FABRICATION.
- 3

WELDED WIRE FABRIC SHALL CONFORM TO ASTM A82 AND A185.
- 4

ALL REINFORCING STEEL IN MASONRY SHALL BE LAPPED 48 BAR DIAMETERS OR TWO (2) FEET MINIMUM, UNLESS NOTED OTHERWISE.

EPOXY ANCHORS

- 1

ALL EPOXY ANCHORS SPECIFIED ON THE PLANS SHALL BE BY ONE OF THE FOLLOWING MANUFACTURER'S AND SHOULD BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS:

A SIMPSON STRONG-TIE "SET-XP" STRUCTURAL EPOXY-TIE ANCHORING ADHESIVE LARR# 25744, ICC-ESR# 2508

B HILTI "HIT-HY 150 MAX-SD" EPOXY ADHESIVE LARR# 25881, ICC-ESR# 3013
- 2

CONTINUOUS SPECIAL INSPECTION BY A REGISTERED DEPUTY INSPECTOR IS REQUIRED FOR ALL EPOXY ANCHOR INSTALLATIONS.

EARTHQUAKE DESIGN DATA

IMPORTANCE FACTOR: 1.0
OCCUPANCY CATEGORY: II
SITE CLASS: D
SPECTRAL RESPONSE COEFFICIENTS
Ss: 2.660
S1: 1.010
Sds: 1.860
Sd1: 1.390
SEISMIC DESIGN CATEGORY (SDC): E
SEISMIC FORCE RESISTING SYSTEM: PLYWOOD SHEAR WALLS
SEISMIC RESPONSE COEFFICIENT (Cs): 0.286
RESPONSE MODIFICATION FACTOR (R): 6.5
REDUNDANCY FACTOR: 1.3

WIND DESIGN

BASIC WIND SPEED: 95 mph
WIND IMPORTANCE FACTOR: 1.0
WIND EXPOSURE: B
INTERNAL PRESSURE COEFF.: ±0.18
BUILDING DESIGN PRESSURE: 16.7 psf
COMPONENT & CLADDING DESIGN PRESSURE: 25.3 psf

DESIGN EVEREST

CONSULTING ENGINEERS

365 FLOWER LANE

MOUNTAIN VIEW, CA 94043

PHONE: (888) 311-3015 FAX: (650) 695-1801

GENERAL NOTES

MATTOS

2383 MATTOS DRIVE

MILPITAS, CALIFORNIA

REV	DATE	DESCRIPTION
1		
2		
3		
4		
5		

REGISTERED PROFESSIONAL ENGINEER

SESSIE LANDERS

Exp. 09-30-24

C 83060

CIVIL

STATE OF CALIFORNIA

SIGN DATE: 08-24-2023

DATE: AS NOTED

SCALE: AS NOTED

DRAWN BY: JL

CKD BY: JL

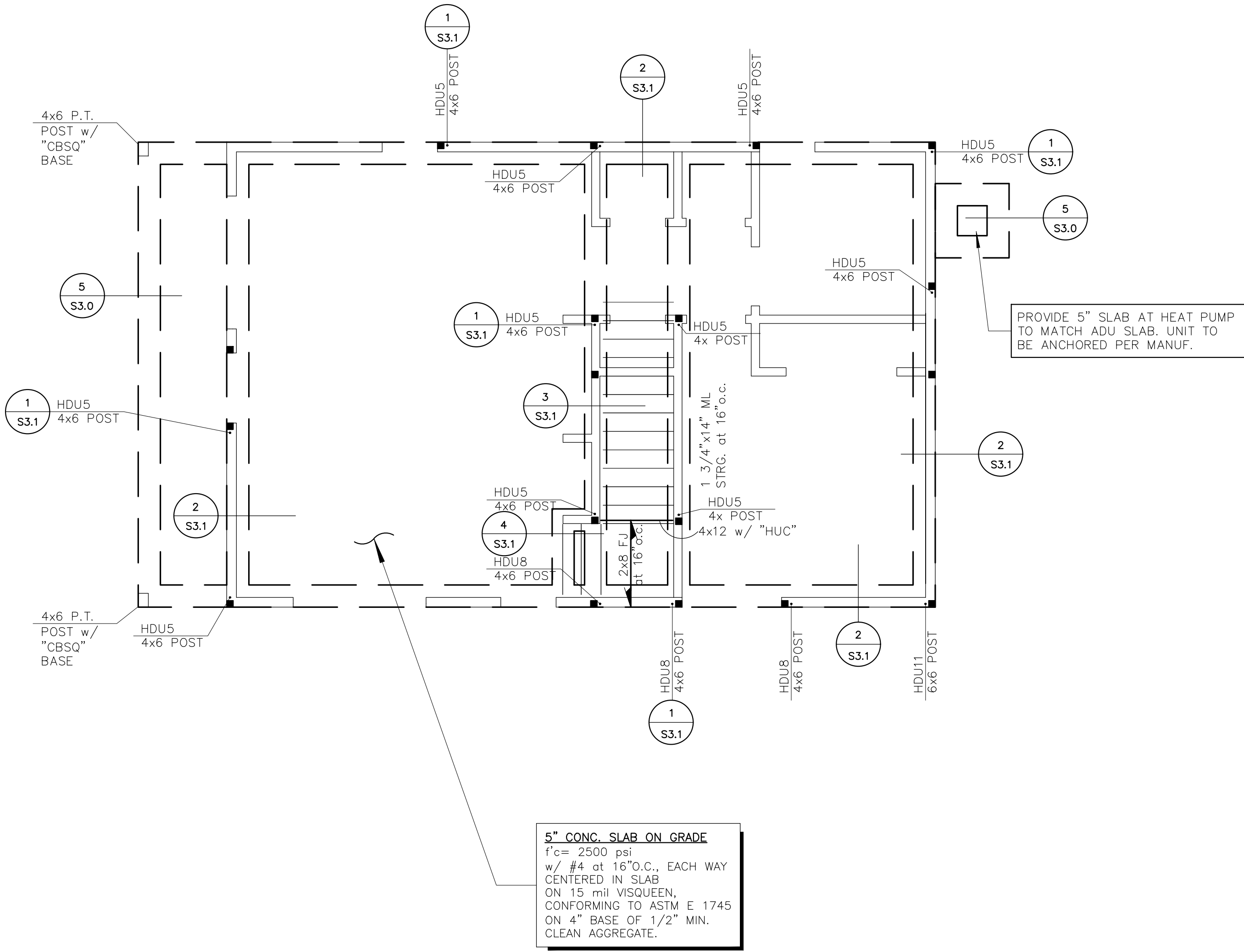
PROJECT #: 202212048

S-1.0

GENERAL FOUNDATION NOTES

- SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, SLAB DEPRESSIONS, CURBS AND ELEVATIONS.
- BOLT HOLES FOR HOLDOWN CONNECTIONS TO WOOD POSTS SHALL BE DRILLED ONLY 1/16" LARGER THAN THE REQUIRED BOLT SIZE. INSPECTOR TO VERIFY. NUTS SHALL BE TORQUED AS REQUIRED BY THE MANUFACTURER OR 1/2" TURN PAST FINGER TIGHTNESS WHERE NOT OTHERWISE SPECIFIED.
- PROVIDE APPROVED PLATE WASHERS PER THE PLATE WASHER SCHEDULE.
- HOLDOWNS SHALL BE RE-TIGHTENED JUST PRIOR TO COVERING THE WALL FRAMING.

PLATE WASHER SCHEDULE ¹ SILL PLATE ANCHOR BOLTS AND HOLDOWN CONNECTOR BOLTS		
BOLT SIZE	PLATE SIZE T x W x L	REMARKS
1/2" Ø	1/4" x 3" x 3"	
5/8" Ø	1/4" x 3" x 3"	
3/4" Ø	5/16" x 3" x 3"	
7/8" Ø	5/16" x 3" x 3"	
1" Ø	3/8" x 3-1/2" x 3-1/2"	
NOTES: 1. APPROVED PLATE WASHERS, INSTEAD OF CUT WASHERS, SHALL BE PROVIDED FOR ALL PLYWOOD SHEAR WALL SILL PLATE ANCHOR BOLTS AND FOR ALL HOLDOWN CONNECTOR BOLTS AT SHEAR WALL WOOD FLANGES.		



ALL NEW EXTERIOR WALLS SHALL BE SHEATHED WITH TYPE  PLYWOOD, MINIMUM, UNLESS NOTED OTHERWISE

COMMON NAILS ARE REQUIRED FOR ALL FLOOR SHEATHING, ROOF SHEATHING, AND SHEAR WALL NAILING

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

REV	DATE	DESCRIPTION
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-



SIGN DATE: 08-24-2023
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CKD BY: JL
PROJECT #: 202212048

GENERAL FRAMING NOTES

- 1  : INDICATES SHEAR WALL w/ MIN. WALL LENGTH. SEE SCHEDULE ON SHEET S-4.0
- 2  : INDICATES SHEAR WALL w/ 3x FRAMING REQUIRED w/ MIN. WALL LENGTH. SEE SCHEDULE ON SHEET S-4.0
- 3 FT : INDICATES FLOOR TIE, VERTICAL, ACROSS FLOOR BELOW. CONNECT TO 4x POST MIN.ABOVE & BELOW FLOOR, U.N.O.
- 4 ■ : INDICATES POST, 4x MIN., U.N.O.
- 5 □ : INDICATES (E) POST TO REMAIN, 4x MIN., U.N.O.
- 6 ALL FLUSH FRAMED MEMBERS SHALL BE SUPPORTED IN SIMPSON SERIES HANGERS: UNLESS NOTED OTHERWISE
- "LUS" or "U" FOR 2x TO WOOD BEAM
"LUS-2" FOR DBL 2x TO WOOD/PSL BEAM
"HUSTF" FOR 4x, 6x TO WOOD/PSL BEAM
"JB" FOR 2x TO STEEL BEAM/NAILER
"WNP-2" FOR DBL 2x TO STEEL BEAM/NAILER
"B" FOR 4x, 6x TO STEEL BEAM/NAILER
"IUS" FOR TJI TO WOOD/PSL BEAM
"HHUS" FOR PSL BEAM TO WOOD/PSL BEAM
"ITS" FOR TJI TO STEEL BEAM/NAILER
"HWU" U.N.O. ON PLAN FOR PSL BEAM TO STEEL BEAM/NAILER
- 7 BOLT HOLES FOR HOLDOWN CONNECTIONS TO WOOD POSTS SHALL BE DRILLED ONLY 1/16" LARGER THAN THE REQUIRED BOLT SIZE. INSPECTOR TO VERIFY. BOLTS SHALL BE TORQUED AS REQUIRED BY THE MANUFACTURER.
- 8 SINGLE TRIMMERS REQ'D UNDER HEADERS 4x8, 6x8 AND SMALLER DOUBLE TRIMMERS REQ'D UNDER HEADERS 4x10, 6x10 AND GREATER UNLESS NOTED OTHERWISE ON PLANS.
- 9 ALL BEAMS DESIGNATED AS "DRAG STRUTS" SHALL HAVE PLYWOOD BOUNDARY NAILING.
- 10 PROVIDE WEB STIFFENERS AT ALL BEARING SUPPORTS AND HANGERS FOR ALL TJI MEMBERS.
- 11 ROOF NAILING MUST BE INSPECTED BY BUILDING DEPARTMENT INSPECTORS PRIOR TO COVERING.

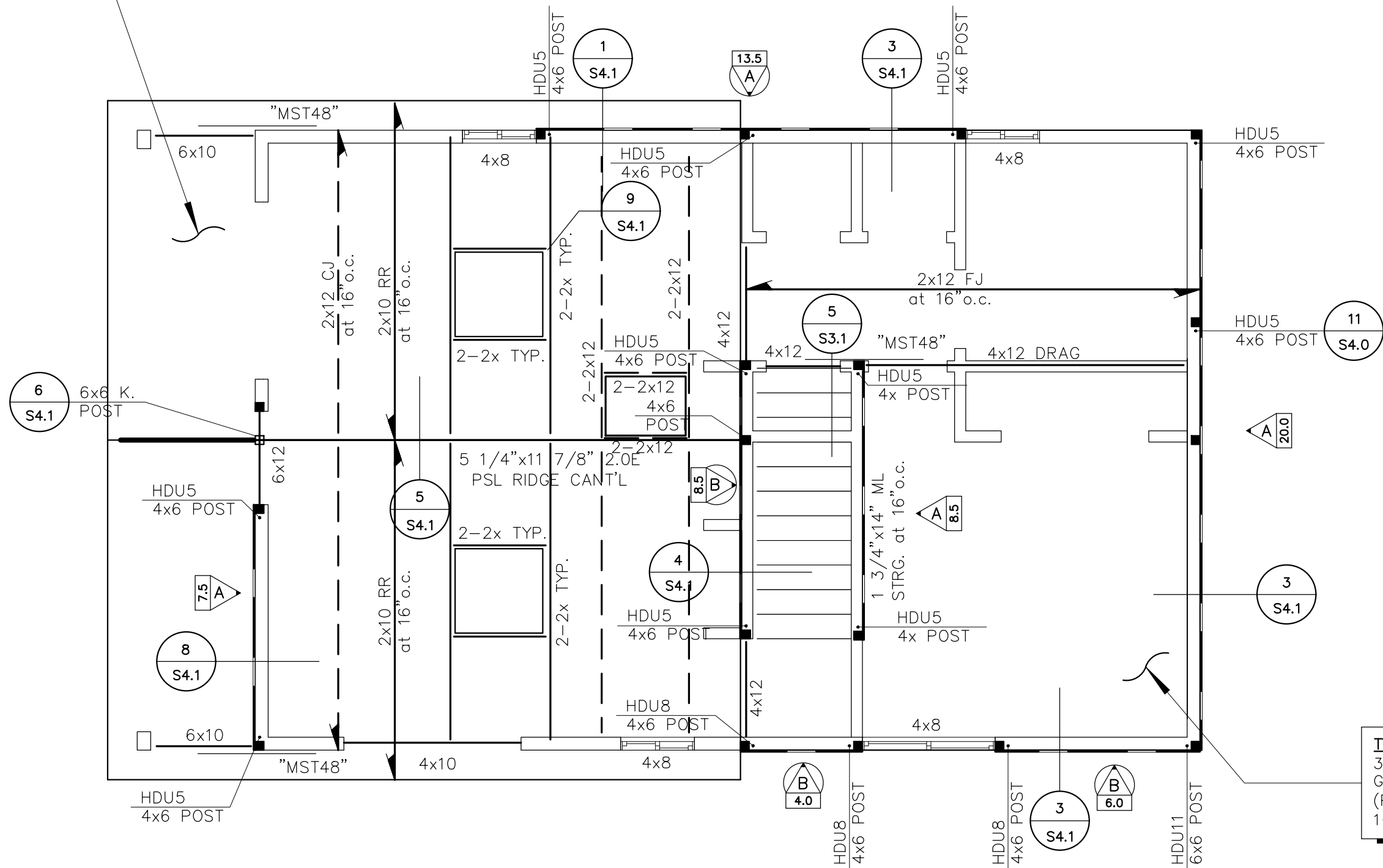
CEILING JOIST SCHEDULE		
MAX. SPAN	JOIST SIZE	REMARKS
6 FEET	2x4 at 16"o.c.	
10 FEET	2x6 at 16"o.c.	
14 FEET	2x8 at 16"o.c.	
18 FEET	2x10 at 16"o.c.	
22 FEET	2x12 at 16"o.c.	

NOTES:
1. ALL FLUSH FRAMED MEMBERS SHALL BE SUPPORTED IN SIMPSON "LUS" OR "U" SERIES HANGERS.
2. DL: 10psf ; LL: 20psf

ALL NEW EXTERIOR WALLS SHALL BE SHEATHED WITH TYPE  PLYWOOD, MINIMUM, UNLESS NOTED OTHERWISE

COMMON NAILS ARE REQUIRED FOR ALL FLOOR SHEATHING, ROOF SHEATHING, AND SHEAR WALL NAILING

TYPICAL ROOF SHEATHING
5/8" CDX PLYWOOD,
UNBLOCKED (P.I. = 32/16)
10d NAILS at 6/6/12
ROOF DIAPHRAGM NAILING
TO BE INSPECTED BY CITY
INSPECTOR PRIOR TO
COVERING.



TYPICAL FLOOR SHEATHING
3/4" CDX T&G PLYWOOD,
GLUENAILLED
(P.I. = 48/24)
10d NAILS at 6/6/10

SECOND FLOOR FRAMING PLAN

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



GENERAL FRAMING NOTES

- 1



: INDICATES SHEAR WALL w/ MIN. WALL LENGTH. SEE SCHEDULE ON SHEET S-4.0
- 2



: INDICATES SHEAR WALL w/ 3x FRAMING REQUIRED w/ MIN. WALL LENGTH. SEE SCHEDULE ON SHEET S-4.0
- 3

FT

: INDICATES FLOOR TIE, VERTICAL, ACROSS FLOOR BELOW. CONNECT TO 4x POST MIN.ABOVE & BELOW FLOOR, U.N.O.
- 4



: INDICATES POST, 4x MIN., U.N.O.
- 5



: INDICATES (E) POST TO REMAIN, 4x MIN., U.N.O.
- 6

ALL FLUSH FRAMED MEMBERS SHALL BE SUPPORTED IN SIMPSON SERIES HANGERS: UNLESS NOTED OTHERWISE
- "LUS" or "U" FOR 2x TO WOOD BEAM
"LUS-2" FOR DBL 2x TO WOOD/PSL BEAM
"HUSTF" FOR 4x, 6x TO WOOD/PSL BEAM
"JB" FOR 2x TO STEEL BEAM/NAILER
"WNP-2" FOR DBL 2x TO STEEL BEAM/NAILER
"B" FOR 4x, 6x TO STEEL BEAM/NAILER
"IUS" FOR TJI TO WOOD/PSL BEAM
"HHUS" FOR PSL BEAM TO WOOD/PSL BEAM
"ITS" FOR TJI TO STEEL BEAM/NAILER
"HWU" U.N.O. ON PLAN FOR PSL BEAM TO STEEL BEAM/NAILER
- 7

BOLT HOLES FOR HOLDDOWN CONNECTIONS TO WOOD POSTS SHALL BE DRILLED ONLY 1/16" LARGER THAN THE REQUIRED BOLT SIZE. INSPECTOR TO VERIFY. BOLTS SHALL BE TORQUED AS REQUIRED BY THE MANUFACTURER.
- 8

SINGLE TRIMMERS REQ'D UNDER HEADERS 4x8, 6x8 AND SMALLER
DOUBLE TRIMMERS REQ'D UNDER HEADERS 4x10, 6x10 AND GREATER
UNLESS NOTED OTHERWISE ON PLANS.
- 9

ALL BEAMS DESIGNATED AS "DRAG STRUTS" SHALL HAVE PLYWOOD BOUNDARY NAILING.
- 10

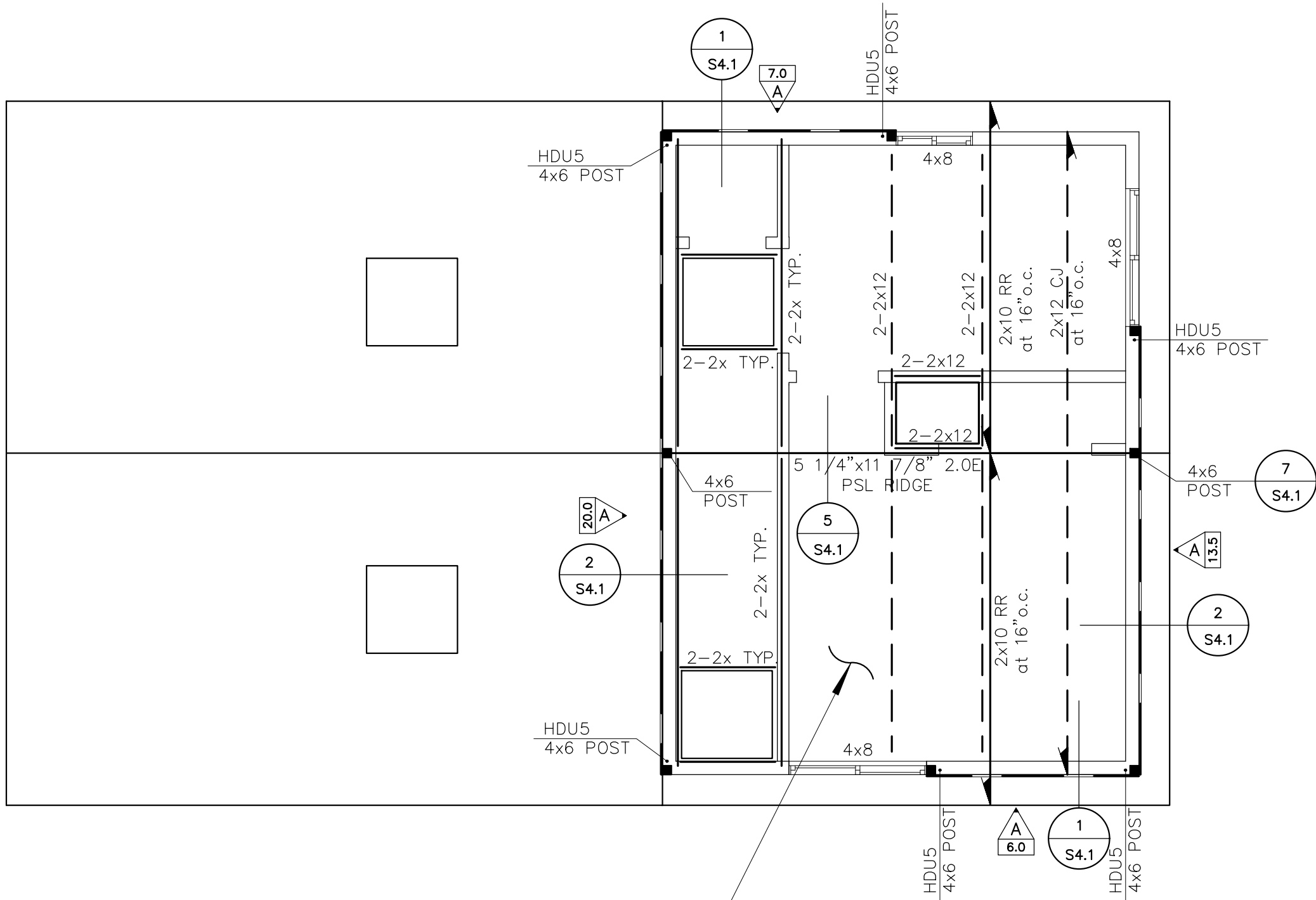
PROVIDE WEB STIFFENERS AT ALL BEARING SUPPORTS AND HANGERS FOR ALL TJI MEMBERS.
- 11

ROOF NAILING MUST BE INSPECTED BY BUILDING DEPARTMENT INSPECTORS PRIOR TO COVERING.

CEILING JOIST SCHEDULE		
MAX. SPAN	JOIST SIZE	REMARKS
6 FEET	2x4 at 16"o.c.	
10 FEET	2x6 at 16"o.c.	
14 FEET	2x8 at 16"o.c.	
18 FEET	2x10 at 16"o.c.	
22 FEET	2x12 at 16"o.c.	
NOTES: 1. ALL FLUSH FRAMED MEMBERS SHALL BE SUPPORTED IN SIMPSON "LUS" OR "U" SERIES HANGERS. 2. DL: 10psf ; LL: 20psf		

ALL NEW EXTERIOR WALLS SHALL BE SHEATHED WITH TYPE  PLYWOOD, MINIMUM, UNLESS NOTED OTHERWISE

COMMON NAILS ARE REQUIRED FOR ALL FLOOR SHEATHING, ROOF SHEATHING, AND SHEAR WALL NAILING



TYPICAL ROOF SHEATHING
5/8" CDX PLYWOOD,
UNBLOCKED (P.I. = 32/16)
10d NAILS at 6/6/12
ROOF DIAPHRAGM NAILING
TO BE INSPECTED BY CITY
INSPECTOR PRIOR TO
COVERING.

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

ROOF FRAMING PLAN

MATTOS
2383 MATTOS DRIVE
MILPITAS, CALIFORNIA

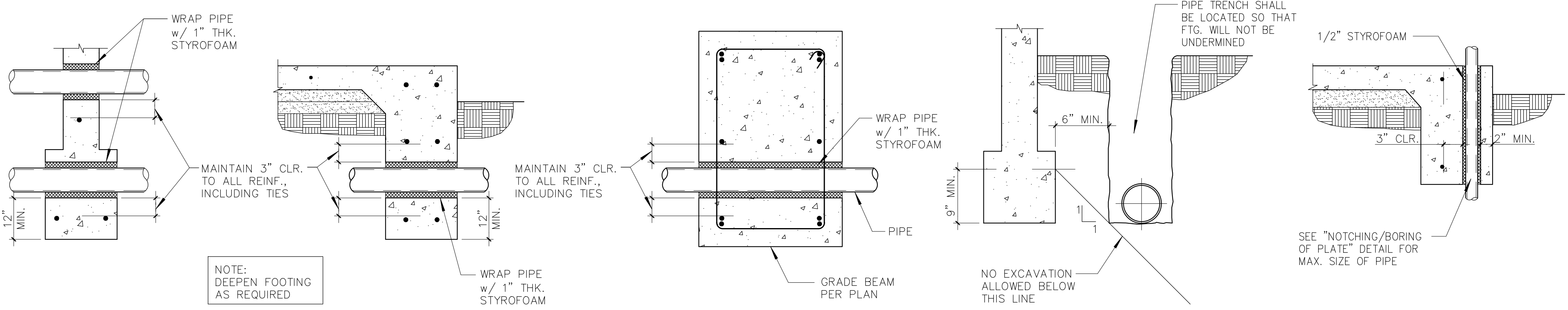
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SIGN DATE: 08-24-2023
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DRAWN BY: JL
CKD BY: JL
PROJECT #: 202212048

S-2.2

LAP LENGTH SCHEDULE								
BAR SIZE	UNCOATED				EPOXY COATED			
	3,000 psi (IN.)		4,000 psi (IN.)		3,000 psi (IN.)		4,000 psi (IN.)	
	TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER
#4	37	30	32	25	48	45	42	38
#5	47	36	40	31	62	54	53	47
#6	56	43	48	37	74	64	63	56
#7	81	63	70	54	107	94	92	81
#8	93	72	80	62	122	107	105	93
#9	105	81	91	70	138	121	120	105
#10	118	91	102	79	155	136	134	118
#11	131	101	113	87	172	151	148	131
CLASS "B" (FORMERLY CLASS "C")								
AT STRUCTURAL SLABS: TOP BARS: LAP AT MIDSPAN, U.N.O. BOTTOM BARS: LAP AT SUPPORTS, U.N.O.								

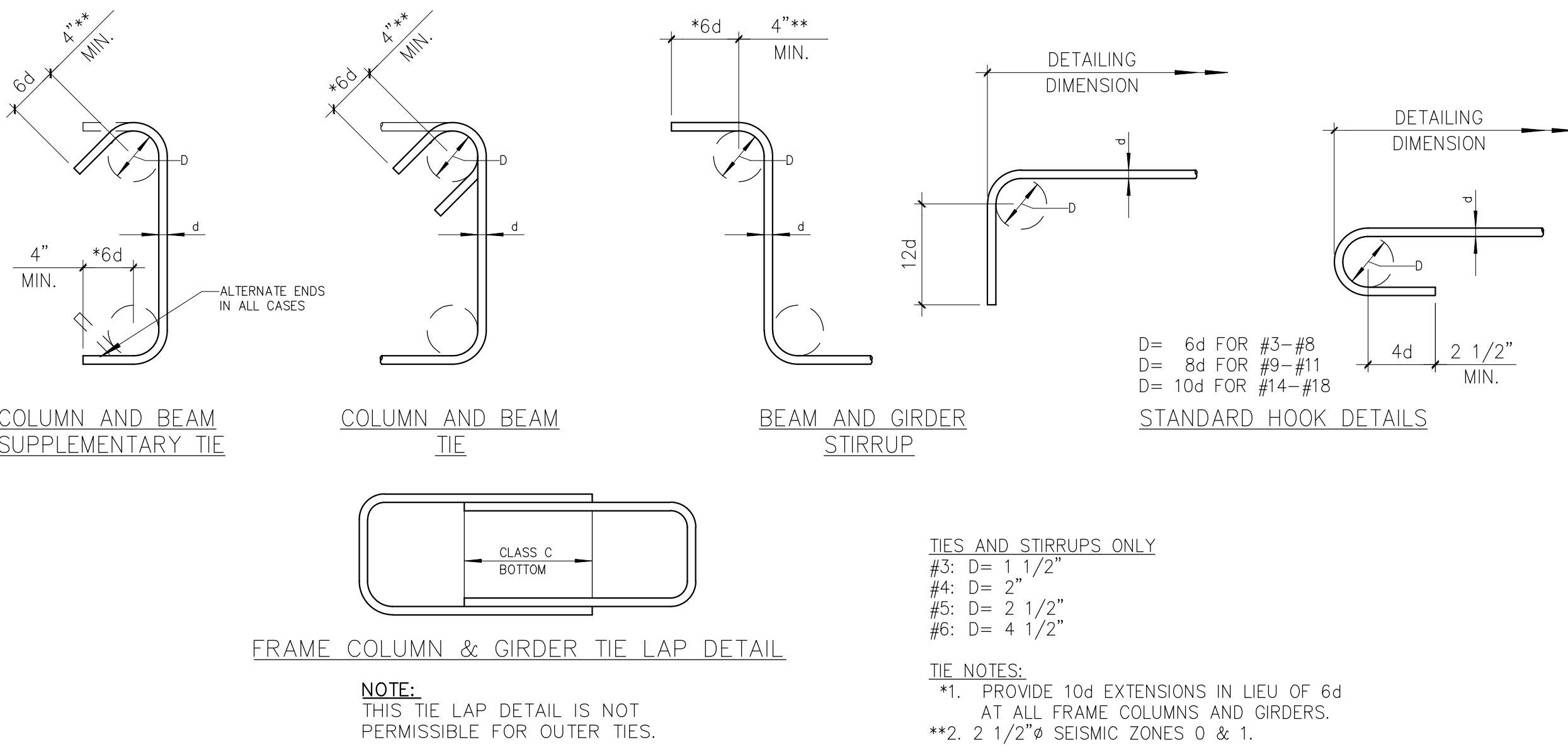
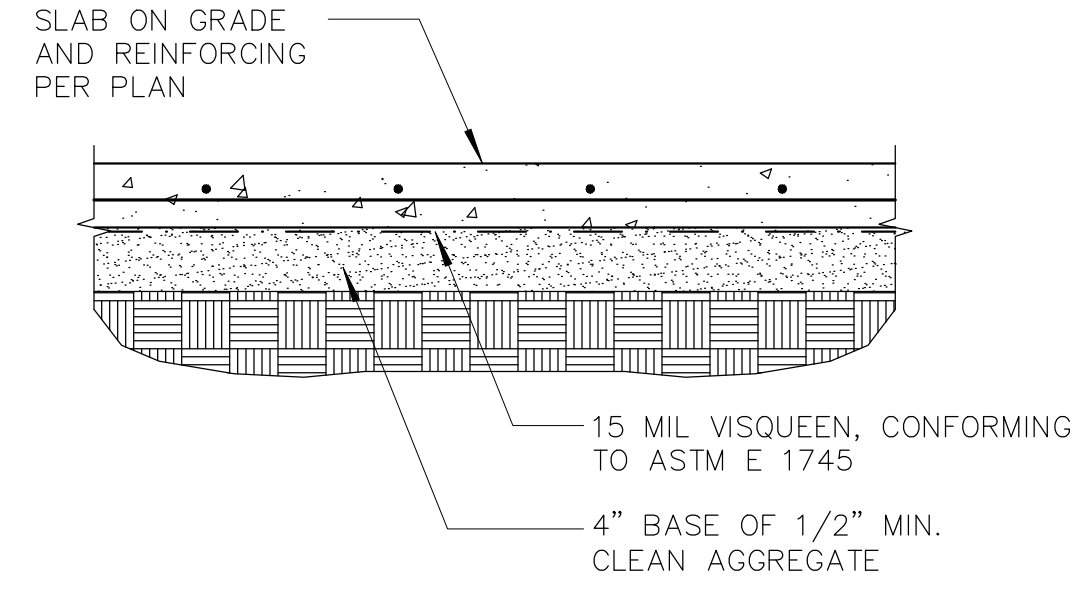
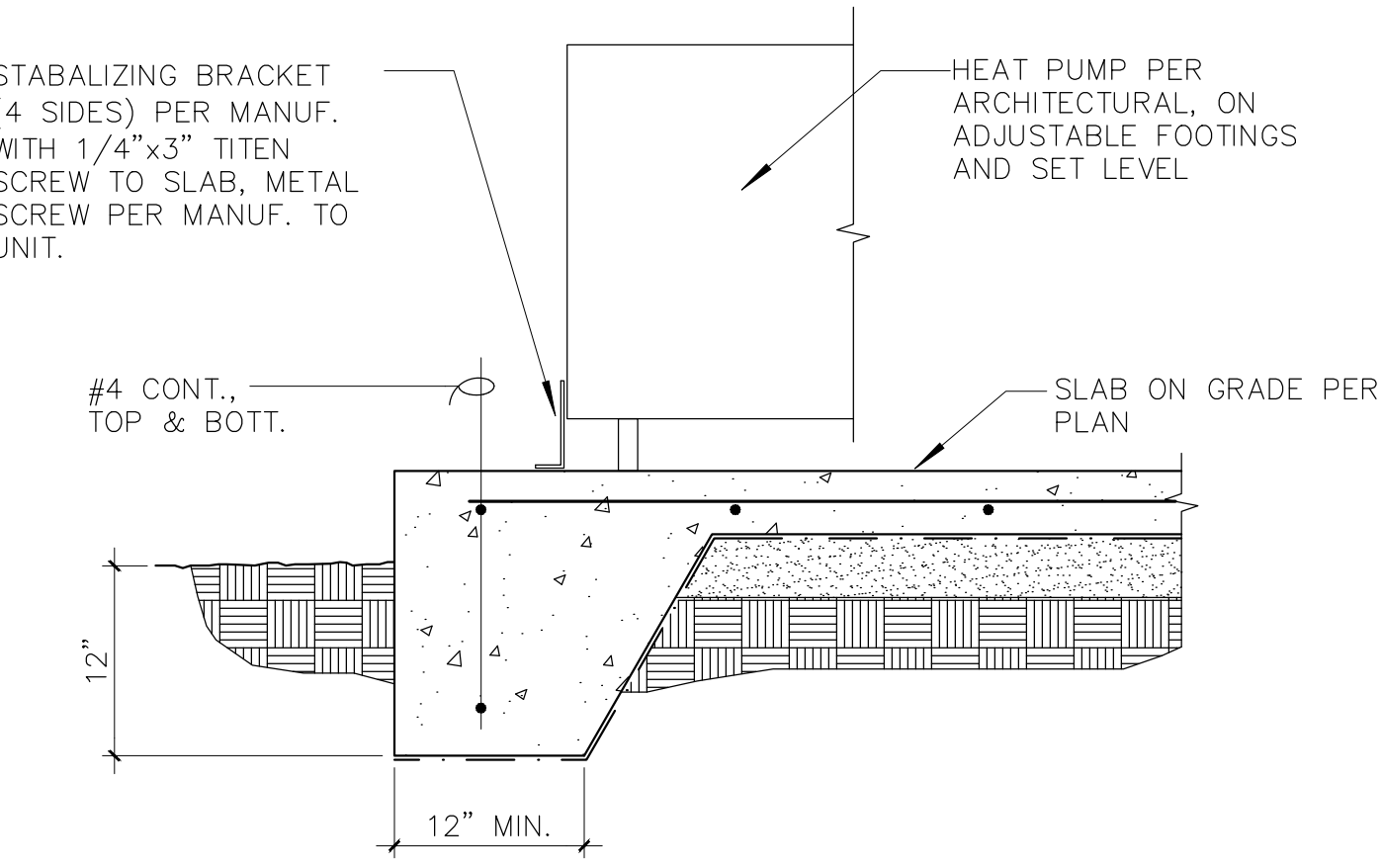


LAP LENGTH SCHEDULE

2

PIPE THROUGH & ADJACENT TO FOOTING

1



SLAB EDGE DETAILS

5

GREEN BLDG CODE SLAB DETAIL

4

TYP. STD. HOOK & TIE DETAIL

3



DETAILS

MATTOS

2383 MATTOS DRIVE
MILPITAS, CALIFORNIA

DESCRIPTION

DATE

REV



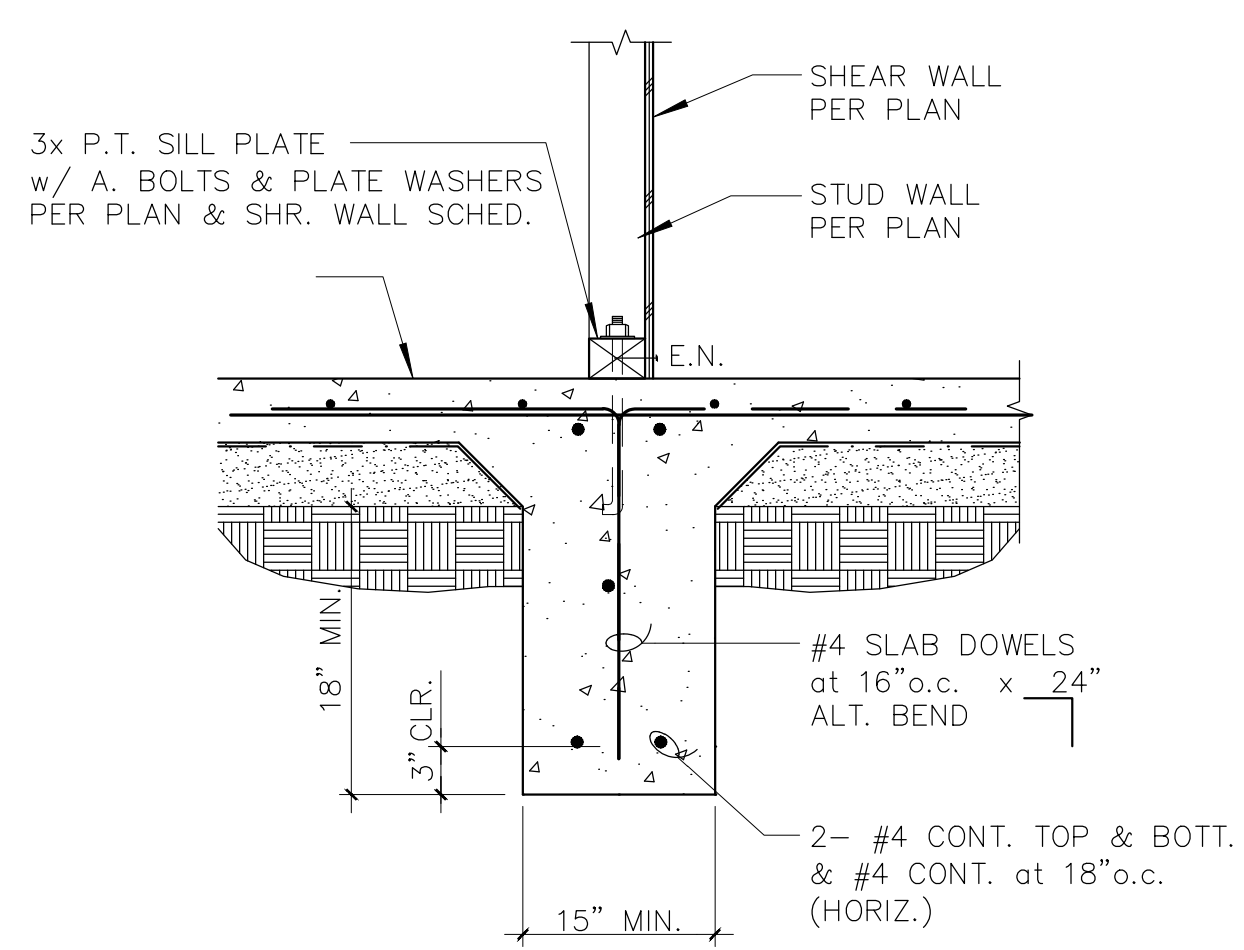
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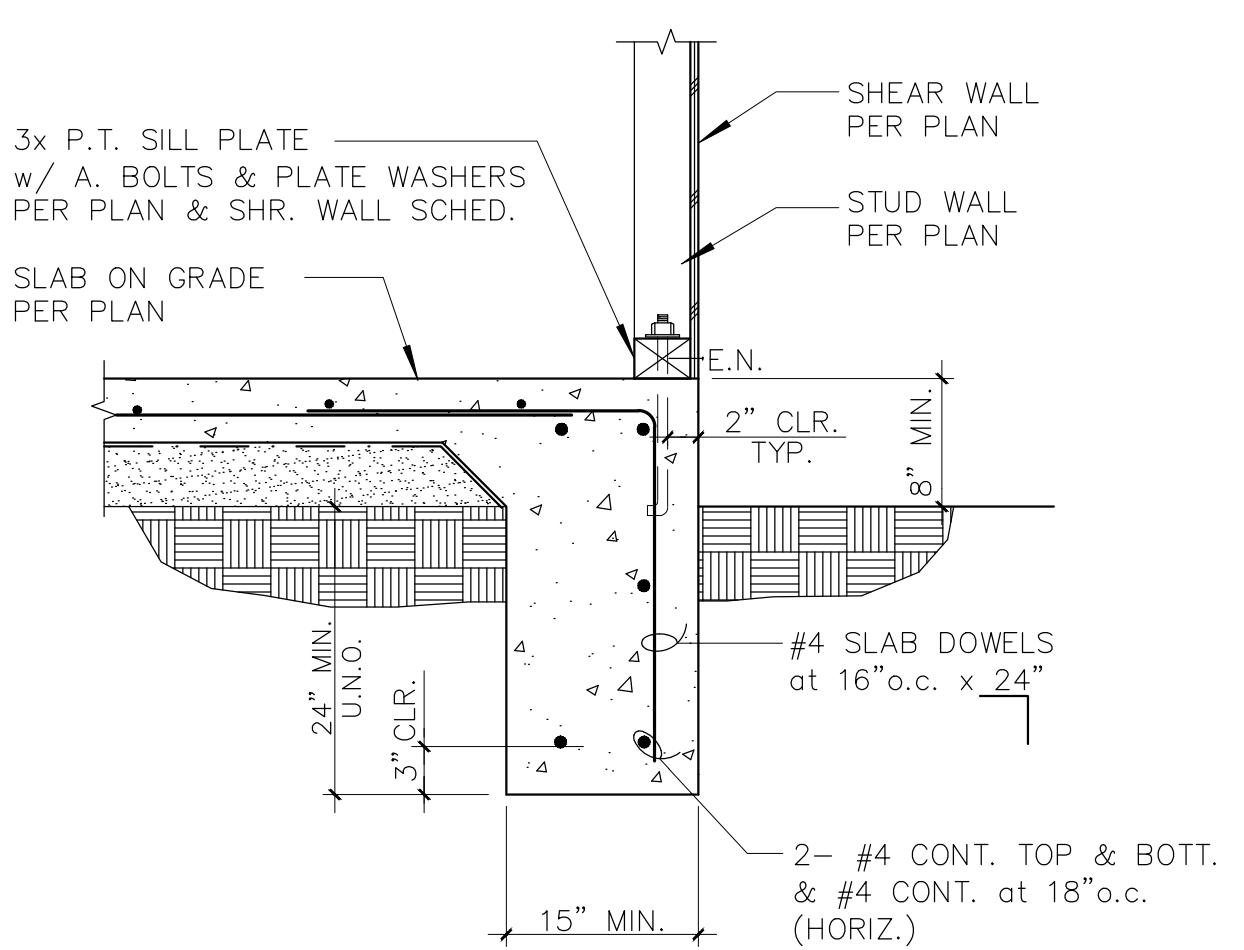
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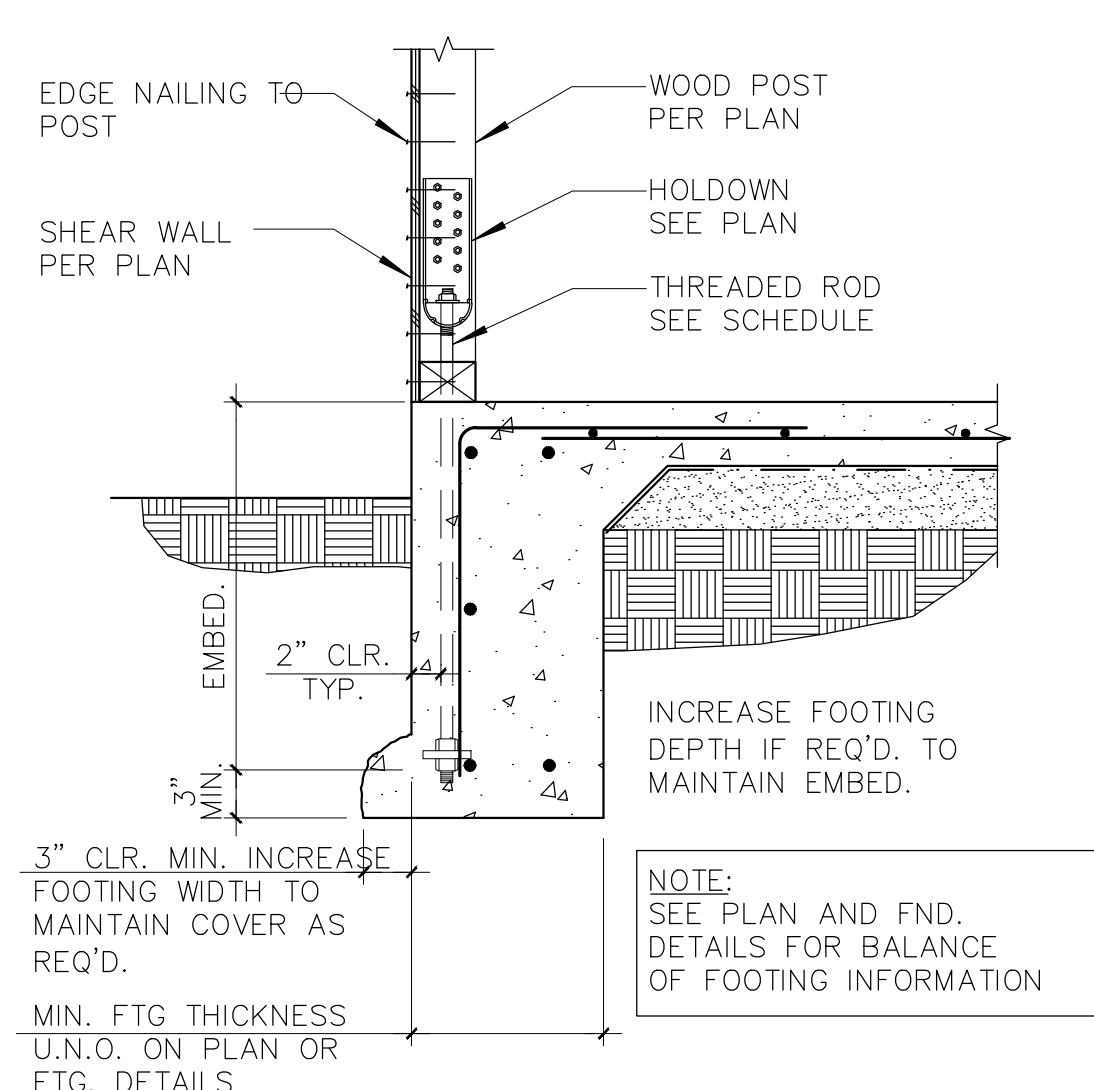
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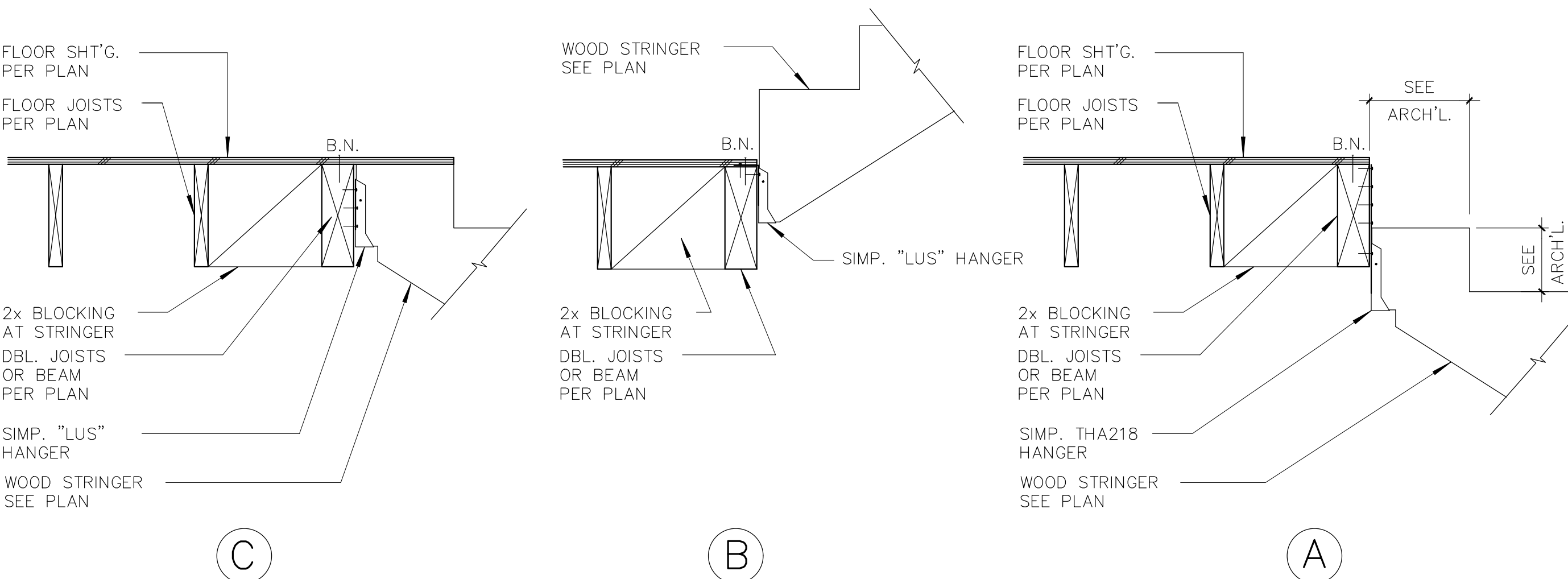
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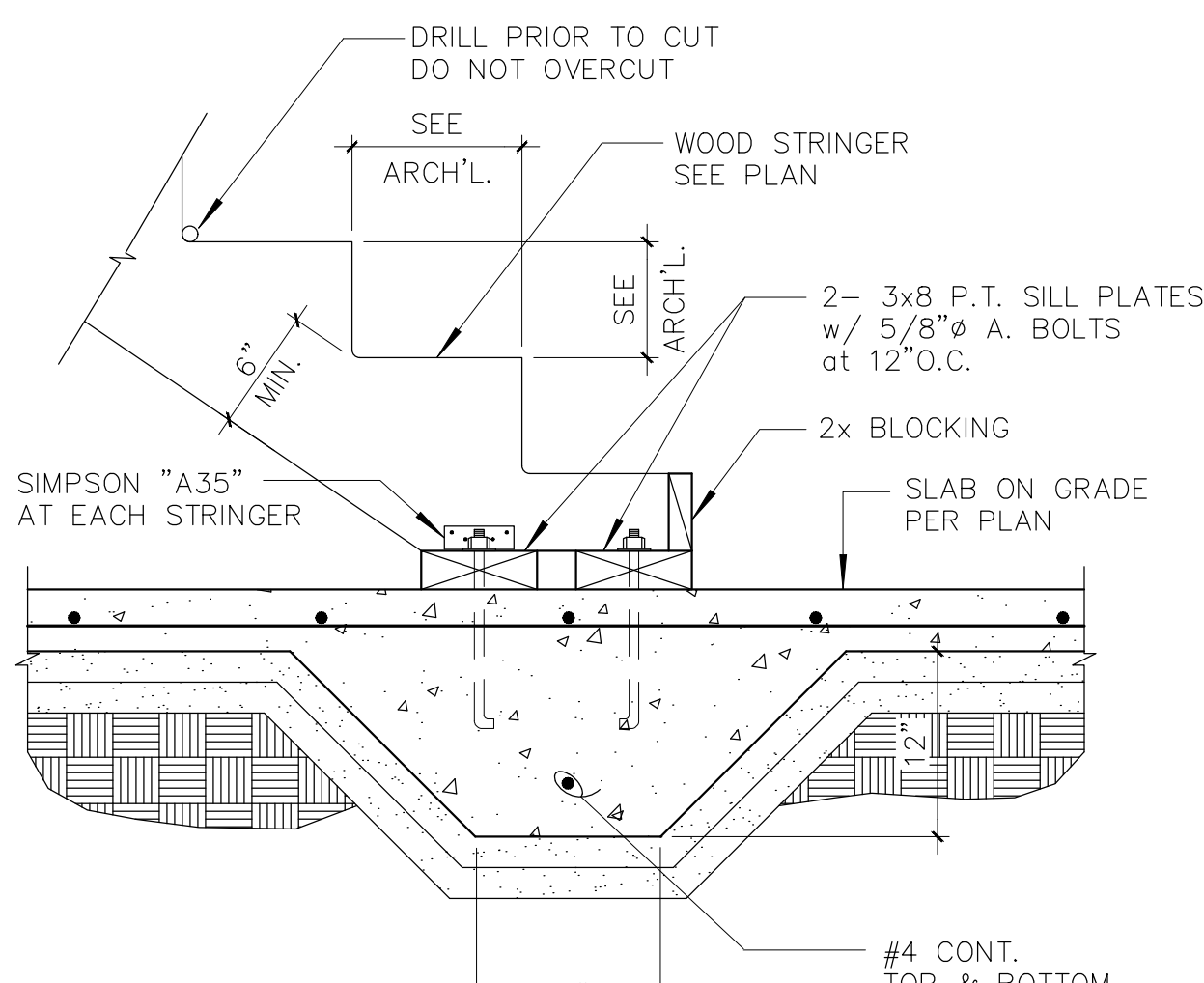
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	3
FOUNDATION DETAIL	

	2
FOUNDATION DETAIL	

 <table><tr><th colspan="5">HOLDOWN SCHEDULE</th></tr><tr><th>MODEL NO.</th><th>BOLT DIA.</th><th>WASHER</th><th>EMBED</th><th>MIN. FTG. THICKNESS</th></tr><tr><td>HDU2</td><td>5/8" Ø</td><td>2 1/2" SQ.</td><td>14"</td><td>12"</td></tr><tr><td>HDU4</td><td>5/8" Ø</td><td>2 1/2" SQ.</td><td>14"</td><td>12"</td></tr><tr><td>HDU5</td><td>5/8" Ø</td><td>2 1/2" SQ.</td><td>14"</td><td>12"</td></tr><tr><td>HDU8</td><td>7/8" Ø</td><td>3" SQ.</td><td>20"</td><td>15"</td></tr><tr><td>HDU11</td><td>1" Ø</td><td>3 1/2" SQ.</td><td>24"</td><td>18"</td></tr><tr><td>HDU14</td><td>1" Ø</td><td>3 1/2" SQ.</td><td>24"</td><td>18"</td></tr></table> NOTES: - SQUARE WASHERS SHALL BE 1/4" MIN. - SIMPSON STRONG TIE ICC-ER #2330, L.A.R.R. #25720 - ROD SHOULD BE ASTM A307 OR A36. - TIGHTEN ALL BOLTS PRIOR TO COVERING. - ALL HOLDOWN HARDWARE IS TO BE SECURE IN PLACE PRIOR TO FOUNDATION INSPECTION. - ALL SCREWS SHALL BE SIMPSON SDS 1/4"Ø x 2 1/2" LONG MIN. - SIMPSON "SSTB" OR "SB" ANCHOR BOLTS MAY NOT BE USED WITHOUT PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.	HOLDOWN SCHEDULE					MODEL NO.	BOLT DIA.	WASHER	EMBED	MIN. FTG. THICKNESS	HDU2	5/8" Ø	2 1/2" SQ.	14"	12"	HDU4	5/8" Ø	2 1/2" SQ.	14"	12"	HDU5	5/8" Ø	2 1/2" SQ.	14"	12"	HDU8	7/8" Ø	3" SQ.	20"	15"	HDU11	1" Ø	3 1/2" SQ.	24"	18"	HDU14	1" Ø	3 1/2" SQ.	24"	18"	1
HOLDOWN SCHEDULE																																									
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HOLDOWN ANCHOR DETAIL																																									

	6
STAIR STRINGER CONNECTIONS	

	4
STAIR STRINGER TO FOOTING	

	10
	9
	8
	7



DESIGN EVEREST

CONSULTING ENGINEERS

365 FLOWER LANE

MOUNTAIN VIEW, CA 94043

PHONE: (888) 311-3015 FAX: (650) 695-1801

DETAILS

MATTOS

2383 MATTOS DRIVE

MILPITAS, CALIFORNIA

REV	DATE	DESCRIPTION
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-



SIGN DATE: 08-24-2023

DATE: AS NOTED

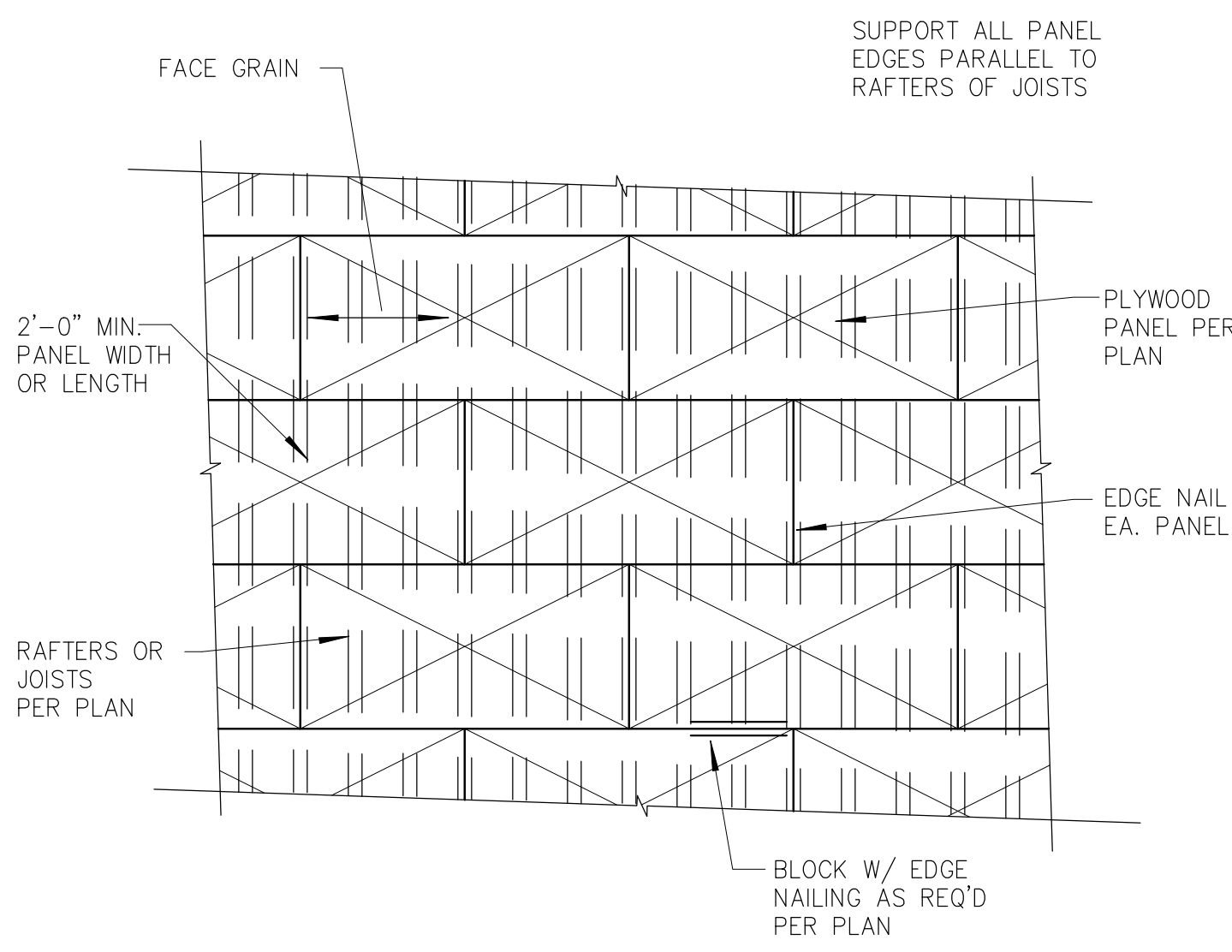
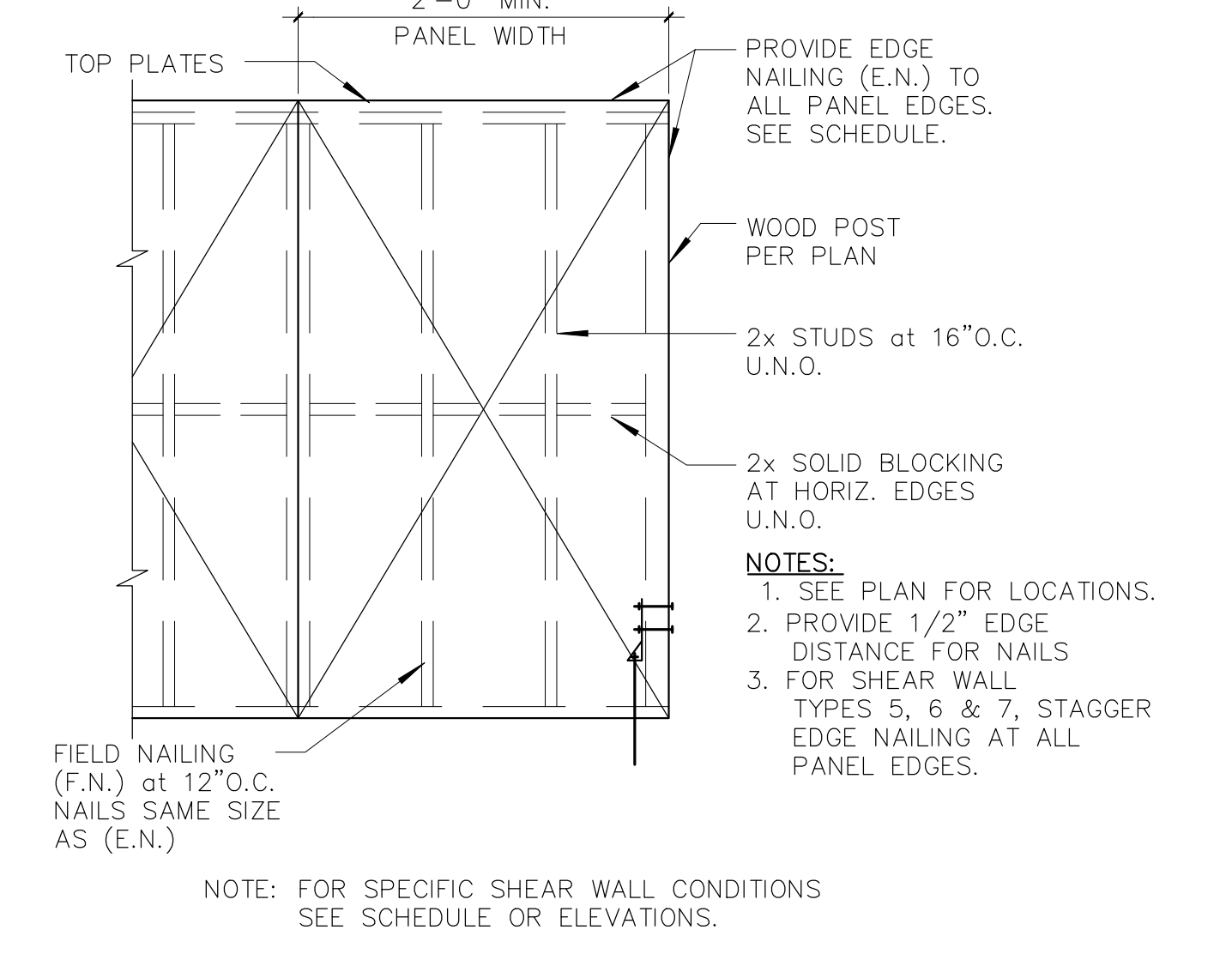
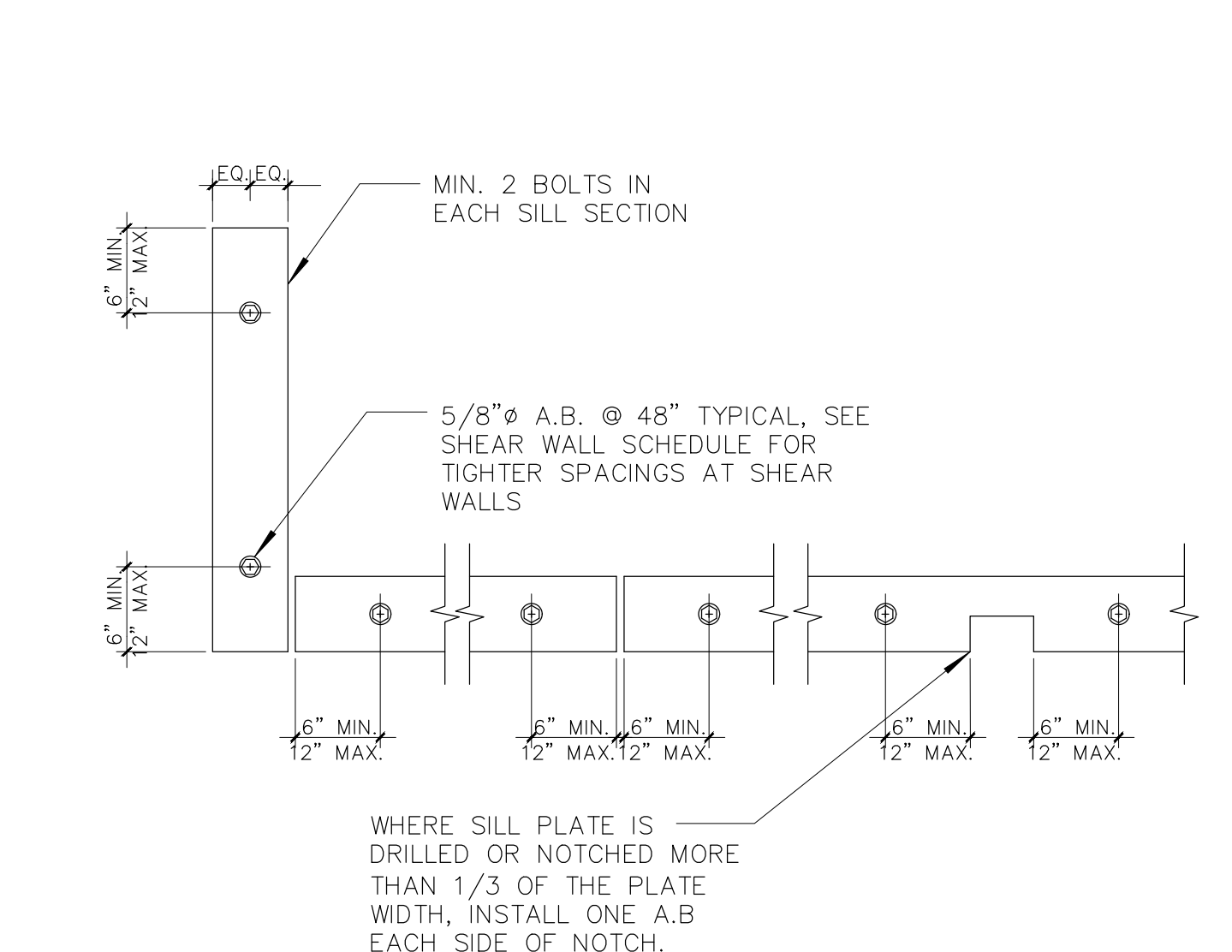
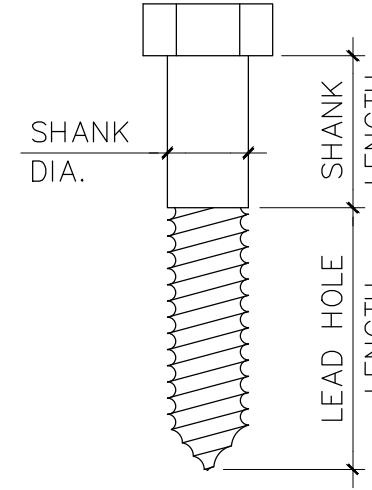
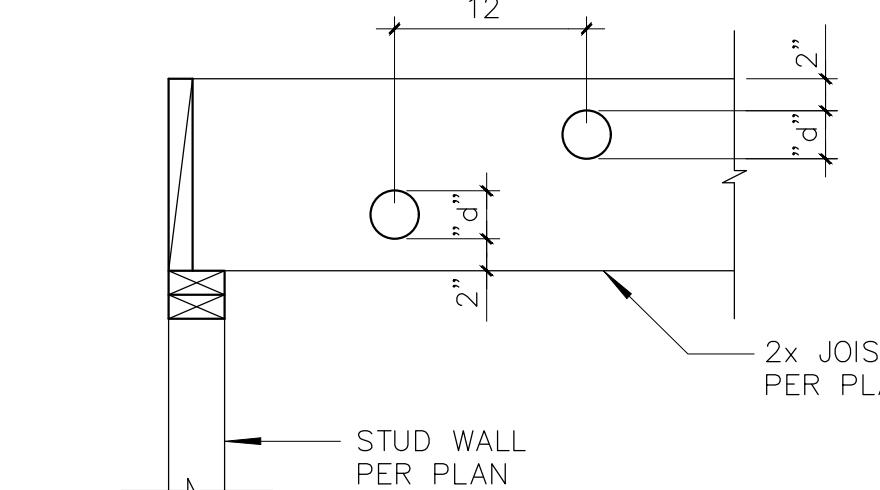
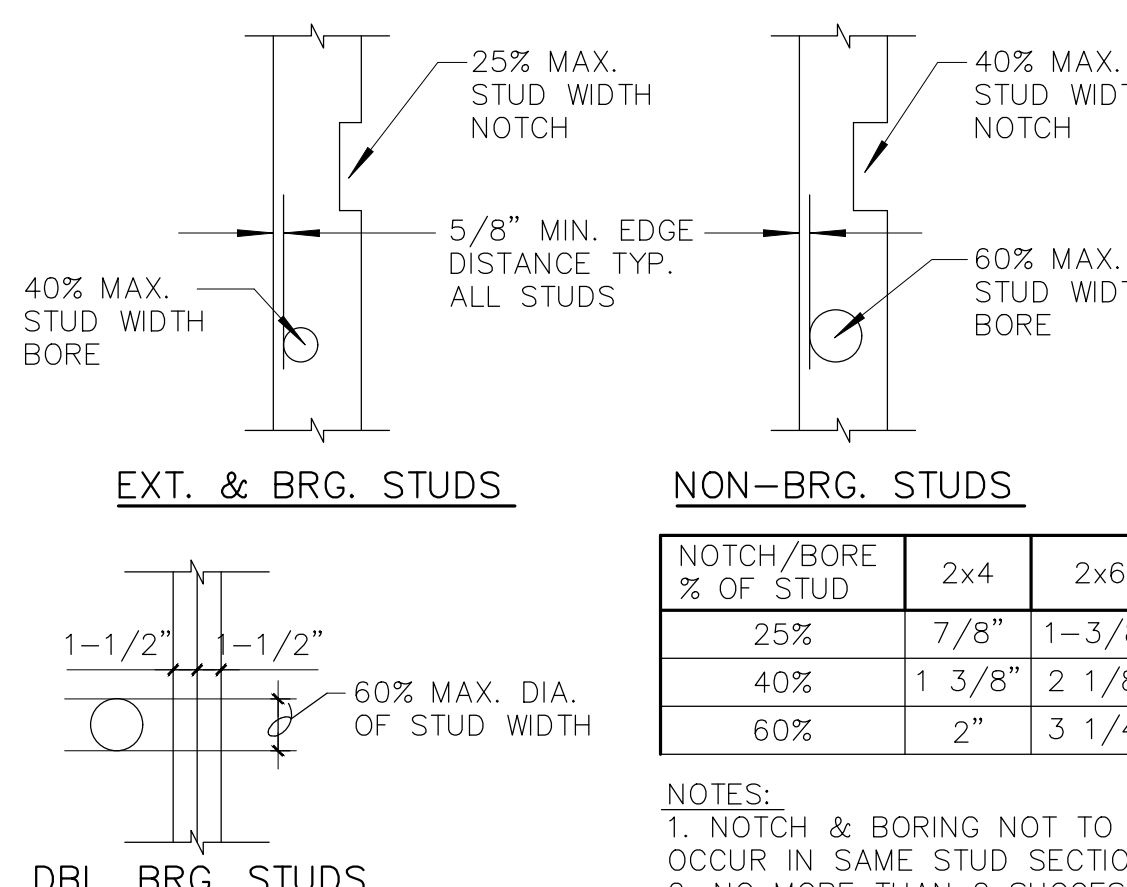
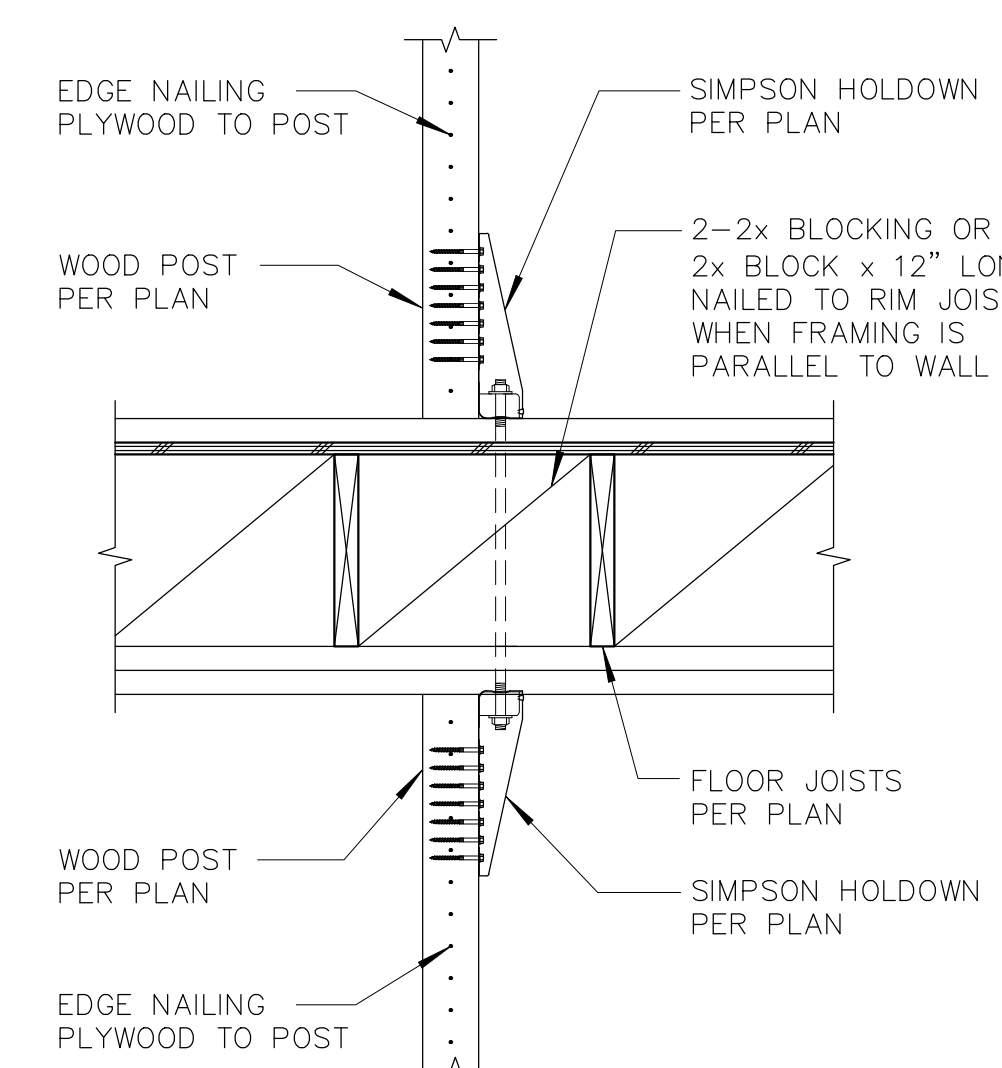
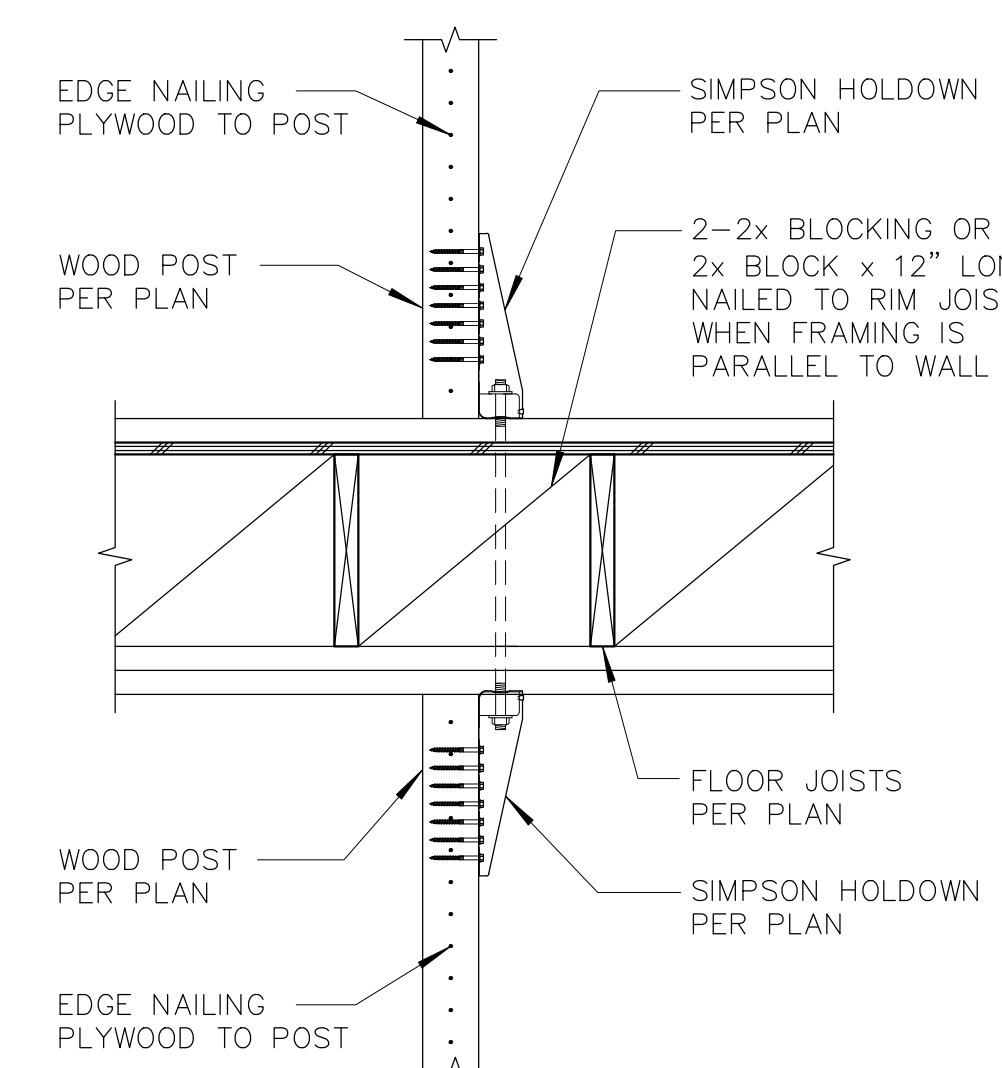
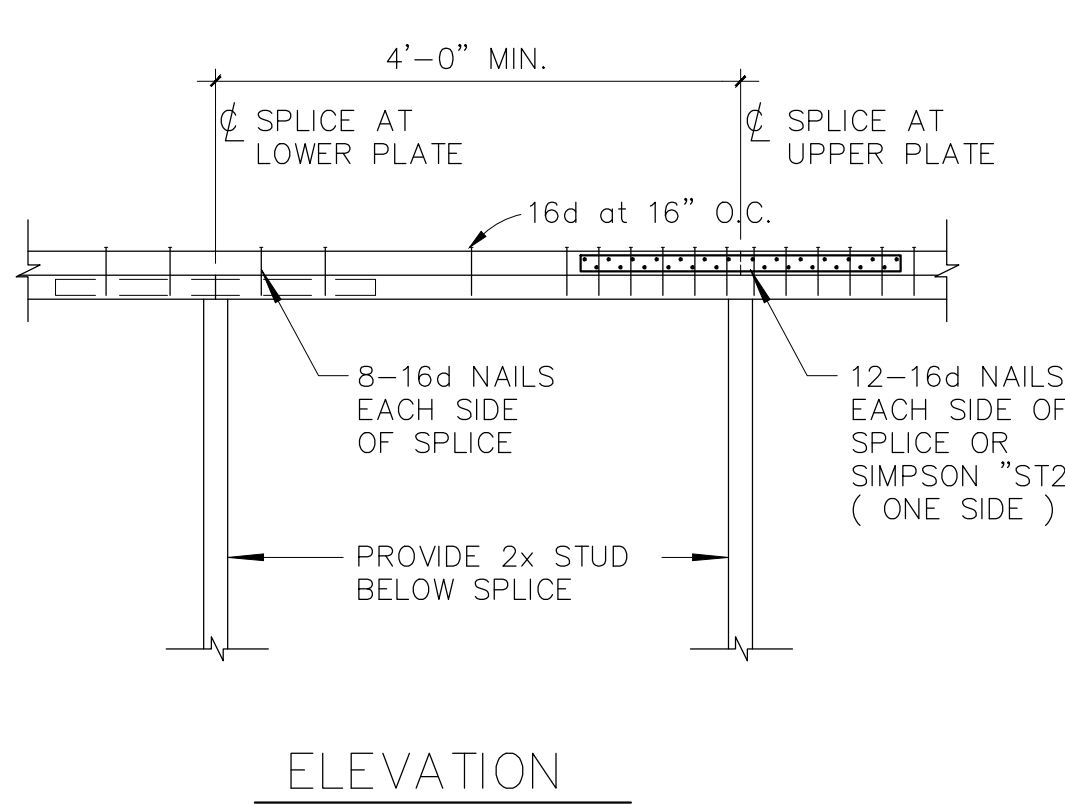
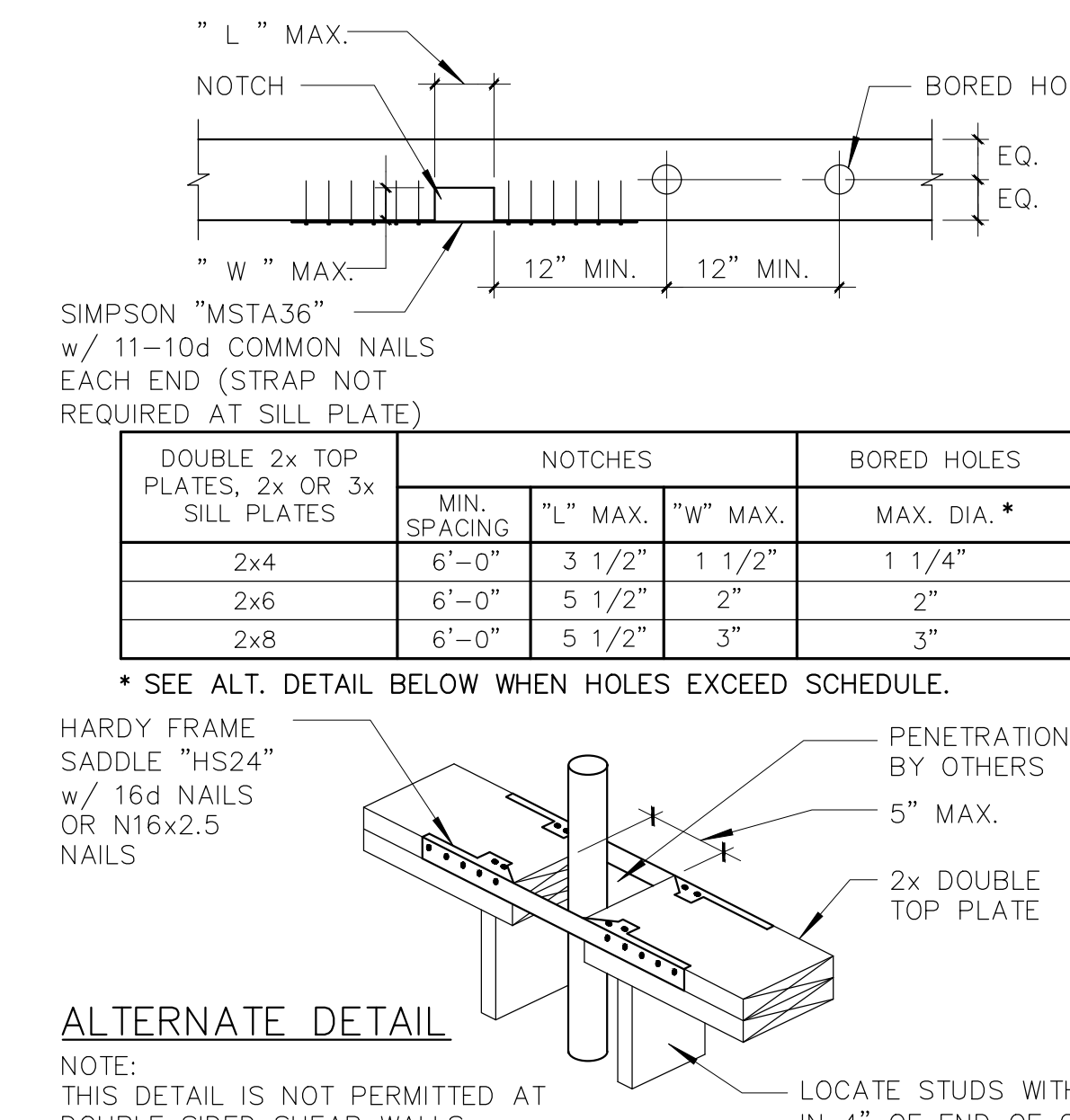
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DRAWN BY: JL

CKD BY: JL

PROJECT #: 202212048

S-3.1

						<table><tr><th colspan="10">SHEAR WALL SCHEDULE</th></tr><tr><th>SYMB.</th><th>DESCRIPTION</th><th>MATERIAL</th><th>3x4 FRMG</th><th>EDGE NAILING</th><th>BOLTS⁵ 5/8" Ø A.B.</th><th>SILL TRANSFER</th><th>LAG³</th><th>SDS⁴</th><th>A35⁵ SPCG. FROM RIM BLKG TO DBL TOP PLATE</th><th>VALUE</th><th></th></tr><tr><td>A</td><td>15/32" STRUCT. I PLYWOOD (ONE SIDE)</td><td>---</td><td>---</td><td>10d @ 6"</td><td>32"</td><td>4"</td><td>12"</td><td>12"</td><td>16"</td><td>340 pif</td><td></td></tr><tr><td>B</td><td>15/32" STRUCT. I PLYWOOD (ONE SIDE)</td><td>---</td><td>---</td><td>10d @ 4"</td><td>32"</td><td>---</td><td>10"</td><td>8"</td><td>16"</td><td>510 pif</td><td></td></tr><tr><td>C</td><td>15/32" STRUCT. I PLYWOOD (ONE SIDE)</td><td>---</td><td>---</td><td>10d @ 3"</td><td>24"</td><td>---</td><td>8"</td><td>6"</td><td>12"</td><td>655 pif</td><td></td></tr><tr><td>D</td><td>15/32" STRUCT. I PLYWOOD (ONE SIDE)</td><td>---</td><td>---</td><td>10d @ 2"</td><td>16"</td><td>---</td><td>6"</td><td>4"</td><td>8"</td><td>870 pif</td><td>SOLID RIM/BLKG. REQ'D.</td></tr><tr><td>BB</td><td>15/32" STRUCT. I PLYWOOD (TWO SIDES)</td><td>---</td><td>---</td><td>10d @ 4"</td><td>16"</td><td>---</td><td>5"</td><td>4"</td><td>8"</td><td>1020 pif</td><td>SOLID RIM/BLKG. REQ'D.</td></tr><tr><td>CC</td><td>15/32" STRUCT. I PLYWOOD (TWO SIDES)</td><td>---</td><td>---</td><td>10d @ 3"</td><td>12"</td><td>---</td><td>4"</td><td>3"</td><td>8" EACH SIDE</td><td>1310 pif</td><td>SOLID RIM/BLKG. REQ'D.</td></tr><tr><td>DD</td><td>15/32" STRUCT. I PLYWOOD (TWO SIDES)</td><td>---</td><td>---</td><td>10d @ 2"</td><td>8"</td><td>---</td><td>3"</td><td>2"</td><td>8" EACH SIDE</td><td>1740 pif</td><td>SOLID RIM/BLKG. REQ'D.</td></tr></table> FOOTNOTES⁶ - ALL NAILS SHALL BE COMMON NAILS. ALL PLYWOOD SHEAR WALL PANEL EDGES SHALL BE BLOCKED. ALL FIELD NAILING SHALL BE @ 12" o.c. - SIMPSON "LTP4" FRAMING ANCHOR MAY BE SUBSTITUTED FOR A35. 3/8" DIAMETER x 8" LONG FULL BODY DIAMETER LAG SCREWS SHALL BE USED. - SIMPSON 1/4" DIAMETER x 6" LONG "SDS" SCREWS. 16d COMMON NAILS SHALL BE USED THROUGH THE SILL PLATE. 3x FRAMING SHALL BE USED AT BOTTOM SILL PLATES AND AT ALL BLOCKING AND STUDS AT ADJACENT PANEL EDGES. - USE 4-PLY PLYWOOD (MINIMUM). - PLATE WASHER REQUIREMENTS: PROVIDE APPROVED PLATE WASHERS PER THE PLATE WASHER SCHEDULE ON THE FOUNDATION PLAN. - ANCHOR BOLTS REQUIREMENTS: ANCHOR BOLTS IN CONTACT WITH PRESSURE TREATED LUMBER TO BE HOT-DIPPED GALVANIZED. ANCHOR BOLTS SHALL BE EMBEDDED 9" MIN.	SHEAR WALL SCHEDULE										SYMB.	DESCRIPTION	MATERIAL	3x4 FRMG	EDGE NAILING	BOLTS ⁵ 5/8" Ø A.B.	SILL TRANSFER	LAG ³	SDS ⁴	A35 ⁵ SPCG. FROM RIM BLKG TO DBL TOP PLATE	VALUE		A	15/32" STRUCT. I PLYWOOD (ONE SIDE)	---	---	10d @ 6"	32"	4"	12"	12"	16"	340 pif		B	15/32" STRUCT. I PLYWOOD (ONE SIDE)	---	---	10d @ 4"	32"	---	10"	8"	16"	510 pif		C	15/32" STRUCT. I PLYWOOD (ONE SIDE)	---	---	10d @ 3"	24"	---	8"	6"	12"	655 pif		D	15/32" STRUCT. I PLYWOOD (ONE SIDE)	---	---	10d @ 2"	16"	---	6"	4"	8"	870 pif	SOLID RIM/BLKG. REQ'D.	BB	15/32" STRUCT. I PLYWOOD (TWO SIDES)	---	---	10d @ 4"	16"	---	5"	4"	8"	1020 pif	SOLID RIM/BLKG. REQ'D.	CC	15/32" STRUCT. I PLYWOOD (TWO SIDES)	---	---	10d @ 3"	12"	---	4"	3"	8" EACH SIDE	1310 pif	SOLID RIM/BLKG. REQ'D.	DD	15/32" STRUCT. I PLYWOOD (TWO SIDES)	---	---	10d @ 2"	8"	---	3"	2"	8" EACH SIDE	1740 pif	SOLID RIM/BLKG. REQ'D.									
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JOIST TO SILL OR GIRDER, TOENAIL	3-8d	BRIDGING TO JOIST, TOENAIL EACH END	2-8d	JOISTS TO BLOCKING, END NAIL	16d top & bott.	RIM JOIST TO JOISTS, END NAIL	16d top & bott.	FLOOR JOIST LAP @ BEARING, FACE NAIL	2-16d	SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16d @ 16" o.c.	STUD TO TOP PLATE, END NAIL	2-16d	STUD TO SOLE PLATE	4-8d, toenail or 2-16d, end nail	DOUBLE STUDS, FACE NAIL	16d @ 24" o.c.	DOUBLE TOP PLATES, FACE NAIL	16d @ 16" o.c.	DOUBLE TOP PLATES, LAP SPLICE, FACE NAIL	8-16d	DOUBLE TOP PLATES, INTERSECTIONS, FACE NAIL	2-16d	CEILING JOISTS TO PLATE, TOENAIL	3-8d	CEILING JOISTS, LAP OVER PARTITIONS, FACE NAIL	3-16d	CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	3-16d	RAFTER TO PLATE, TOENAIL	3-8d	RAFTER TO RIDGE	2-16d	BUILT-UP CORNER STUDS	16d @ 24" o.c.	POST TO PIER PAD, TOENAIL	3-16d	GIRDER TO POST, TOENAIL	3-16d	2x PLANKS, FACE NAIL @ BEARING	2-16d	1 x 6 SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL	2-8d	1 x 8 & WIDER SUBFLOOR TO EACH JOIST, FACE NAIL	3-8d	2 x SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL	2-16d	1 x BRACE TO EACH STUD AND PLATE, FACE NAIL	2-8d	1 x 8 SHEATHING OR LESS TO EACH BEARING, FACE NAIL	2-8d	1 x 10 & WIDER SHEATHING TO EACH BEARING, FACE NAIL	3-8d	BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL	3-8d	RIM JOIST TO TOP PLATE, TOENAIL	8d @ 6" o.c.	CONTINUOUS HEADER, TWO PIECES	16d @ 16" o.c. along each edge	CONTINUOUS HEADER TO STUD, TOENAIL	4-8d	BUILT-UP GIRDER AND BEAMS	20d @ 32" o.c. at top and bottom and staggered 2-20d at ends and at each splice	8	LAG SCREW ASSEMBLY^{1,2,3,4} <table><tr><th rowspan="2">SCREW DIAMETER (IN.)</th><th colspan="2">LEAD HOLE⁵ DIAMETER (IN.)</th></tr><tr><th>DOUG. FIR & SO. PINE</th><th>REDWOOD</th></tr><tr><td>1/4, 5/16, 3/8</td><td>NOT REQ.</td><td>NOT REQ.</td></tr><tr><td>7/16</td><td>5/16</td><td>1/4</td></tr><tr><td>1/2</td><td>3/8</td><td>5/16</td></tr><tr><td>5/8</td><td>7/16</td><td>3/8</td></tr><tr><td>3/4</td><td>1/2</td><td>7/16</td></tr><tr><td>7/8</td><td>5/8</td><td>1/2</td></tr><tr><td>1</td><td>3/4</td><td>5/8</td></tr></table> NOTES: - TABLE APPLIES FOR DOUGLAS FIR LARCH, SOUTHERN PINE WOODS, AND REDWOOD (PER NDS 2018 SEC. 11.1.4). - LAG SCREWS SHALL BE WRENCH TIGHTENED; HAMMERING OF LAG SCREWS IS NOT PERMITTED. - SOAP OR OTHER APPROVED LUBRICANTS SHALL BE USED ON THE THREADED PORTION OF THE LAG SCREW TO PREVENT DAMAGING THE SCREW AND FACILITATE INSERTION. - THE SHANK HOLE SHALL HAVE THE SAME DIAMETER AND DEPTH OF PENETRATION AS THE SHANK LENGTH AND DIAMETER. - THE LEAD HOLE SHALL HAVE THE SAME DEPTH AS THE THREADED PORTION OF THE LAG SCREW. 	SCREW DIAMETER (IN.)	LEAD HOLE ⁵ DIAMETER (IN.)		DOUG. FIR & SO. PINE	REDWOOD	1/4, 5/16, 3/8	NOT REQ.	NOT REQ.	7/16	5/16	1/4	1/2	3/8	5/16	5/8	7/16	3/8	3/4	1/2	7/16	7/8	5/8	1/2	1	3/4	5/8	7	 <table><tr><th>SIZE</th><th>"d" MAX.</th></tr><tr><td>2 x 6</td><td>1 3/4"</td></tr><tr><td>2 x 8</td><td>2 3/8"</td></tr><tr><td>2 x 10</td><td>3"</td></tr><tr><td>2 x 12</td><td>3 3/4"</td></tr><tr><td>2 x 14</td><td>4 3/8"</td></tr></table> NOTE: NOTCHING JOISTS IS NOT ACCEPTABLE WITHOUT STRUCTURAL ENGINEERS APPROVAL	SIZE	"d" MAX.	2 x 6	1 3/4"	2 x 8	2 3/8"	2 x 10	3"	2 x 12	3 3/4"	2 x 14	4 3/8"	6	 <table><tr><th>NOTCH/BORE % OF STUD</th><th>2x4</th><th>2x6</th></tr><tr><td>25%</td><td>7/8"</td><td>1-3/8"</td></tr><tr><td>40%</td><td>1 3/8"</td><td>2 1/8"</td></tr><tr><td>60%</td><td>2"</td><td>3 1/4"</td></tr></table> NOTES: - NOTCH & BORING NOT TO OCCUR IN SAME STUD SECTION. - NO MORE THAN 2 SUCCESSIVE DOUBLE STUDS MAY HAVE 60% MAX. BORED HOLES.	NOTCH/BORE % OF STUD	2x4	2x6	25%	7/8"	1-3/8"	40%	1 3/8"	2 1/8"	60%	2"	3 1/4"	5
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DESIGN EVEREST
CONSULTING ENGINEERS

365 FLOWER LANE
MOUNTAIN VIEW, CA 94043
PHONE: (888) 311-3015 FAX: (650) 695-1801

DETAILS

MATTOS

2383 MATTOS DRIVE
MILPITAS, CALIFORNIA

DESCRIPTION

DATE

REV

1

2

3

4

5

SIGN DATE: 08-24-2023

DATE: AS NOTED

SCALE: AS NOTED

DRAWN BY: JL

CKD BY: JL

PROJECT #: 202212048

S-4.0

NOTE: USE 3x FRAMING MEMBERS WHERE SHOWN, WHEN INDICATED ON PLANS & SHEAR WALL SCHEDULE	NOTE: USE 3x FRAMING MEMBERS WHERE SHOWN, WHEN INDICATED ON PLANS & SHEAR WALL SCHEDULE	NOTE: USE 3x FRAMING MEMBERS WHERE SHOWN, WHEN INDICATED ON PLANS & SHEAR WALL SCHEDULE	NOTE: USE 3x FRAMING MEMBERS WHERE SHOWN, WHEN INDICATED ON PLANS & SHEAR WALL SCHEDULE	SHEAR WALL CONNECTION	SHEAR WALL CONNECTION	SHEAR WALL CONNECTION	RAFTER CONNECTION AT WALL
NOTE: USE 3x FRAMING MEMBERS WHERE SHOWN, WHEN INDICATED ON PLANS & SHEAR WALL SCHEDULE				SHEAR WALL CONNECTION	POST CONNECTION	KING POST CONNECTION	RIDGE CONNECTION
							SKYLIGHT STRAPPING



DETAILS

MATTOS

2383 MATTOS DRIVE
MILPITAS, CALIFORNIA

DESCRIPTION

DATE

REV



SIGN DATE: 08-24-2023

DATE: AS NOTED

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