



## New Meters, Allocations & Expansion of Services Committee Agenda

March 10, 2023 at 9:30 a.m. at District Office

Please join my meeting from your computer, tablet or smartphone.

<https://meet.goto.com/434495869>

You can also dial in using your phone.

United States (Toll-Free): 1 866 899 4679

Access Code: 434-495-869

Right to be heard: Members of the public have a right to address the Board directly on any item of interest to the public that is within the subject matter jurisdiction of the Board, provided that no action shall be taken on any item not appearing on the agenda unless the action is otherwise authorized by subdivision (b) of Section 54954.2.

Please Note: If you have comments on a specific agenda item(s), please fill out a comment card and return it to the Board Secretary. The Board President will call on you for your comments at the appropriate time, either before or during the Board's consideration of that item.

***If you require special accommodations for attendance at or participation in this meeting, please notify our office 24 hours in advance at (805) 646-2114***

***(Govt. Code Section 94594.1 and 94594.2 (a))***

**A. Call To Order**

**B. Public Comments**

**C. Discussion Items:**

- a. Consider modification of the MWAC for the Artesian 203 E El Roblar (commercial account) – (Ward/Martinez) - Attachment
- b. Will-Serve Letter Requests – Attachments
  - i. 142 Felix
  - ii. 166 N Encinal
  - iii. 260 N Alvarado
  - iv. 1186 S Rice

**D. Adjourn**



## **Modification of Artesian MWAC**

Meiners Oaks Water District implemented the new water allocation program in December 2021. It was discovered that the new Artesian (Memory Care) Assisted Living facility at 203 E El Roblar had finally opened. Aside from determining the appropriate allocation, at that time, the Monthly Water Availability Charge (MWAC) was set at 64, as there are 64. The Artesian has individual bedrooms, each with a private bathroom, within 4 buildings. In addition, the facility has shared common areas for dining, activities, and laundry services. The Artesian is classified as Commercial, in alignment with the other assisted living facility in the District. However, the other assisted living facility only has one MWAC per building, but with shared bedrooms. The Area Housing Authority, a residential account, has an MWAC x 34 full apartments.

### **Fiscal Impact:**

Account	Classification	Current MWAC	Proposed MWAC
Artesian	Commercial	$\$36 \times 64 = \$2,304/\text{mo}$	$\$36 \times 4 = \$144/\text{mo}$
Glen Oak 1	Commercial	$\$36 \times 1 = \$36$	No Change
Glen Oak 2	Commercial	$\$36 \times 1 = \$36$	No Change
Area Housing Authority	Residential	$\$36 \times 34 = \$1,224$	No Change

### **Recommended Action:**

Approve the modification of the Artesian MWAC from 64 to 4 dwelling units.



Will-Serve/Proof of Service/Meter Request Form

A "Will-Serve" letter may be issued upon the District's completion of an analysis determining that all conditions of approval are met.

Required Attachments:

- 1. Drawing/sketch of project (with dimensions)
  - 2. Tax Assessors parcel map that includes the subject property.
  - 3. Subdivision map covering the location of the project.\*
  - 4. Documentation of existing permitted dwellings on the property.
- \* Clearly indicate all APNs and legal lots involved in the project. Ensure any markups to county documents do not obscure the underlying information.

Applicant Information:

Account Number: 03- -03

Name: C

Company:

Mailing Address: 142 Felix Dr, Ojai, CA 93023

Phone Number:

Email Address: @hotmail.com

Project Information:

New Meter Requested: ☐ Yes ☒ No

Assessor's Parcel #(s): 0170090095

Service Address: 142 Felix Dr

City, State, Zip code: Ojai, CA 93023

Planning Dept Case #: ZC23-0005

# of Existing Dwellings: 1 Date Dwellings Permitted: 1951

Type of Construction:

☒ New Construction ☐ Tenant Improvement ☐ ADU ☐ Other

Type of Use:

☒ Single Family Res ☐ Multi-Family Res (# of dwellings ) ☐ Other

Project Dimensions (Sqft): 461

Continued on Next Page



Will-Serve/Proof of Service/Meter Request Form

Detailed Project Description:

CONSTRUCTION OF A 461 S.F. ADDITION TO AN  
EXISTING 1102 S.F. SINGLE FAMILY SINGLE STORY  
RESIDENCE.

THE ADDITION WILL ALLOW FOR A NEW BEDROOM  
AND BATHROOM.

Please allow a minimum of 60 days to evaluate and process Will-Serve letter and new meter requests.  
The time frame will depend on receipt of satisfactory information from the applicant and schedule  
of pertinent District Committees and Board of Directors meetings.

☒ I acknowledge that MOWD will bill a \$100 Administrative Fee for processing this request.

Applicant Signature

[Redacted Signature]

Date

2/7/23



## **Review of Application for Will Serve Letter**

**New 461 sf addition to an existing 1,102 sf SFR, addition to include 1 bedroom and 1 bathroom for Property with Existing Meter at 142 Felix.**

### ***Proposal***

The proposed project consists of adding a new 461 sf addition to existing SFR, with one bedroom and one bathroom.

Applicant provided a detailed site plan, showing the location of the proposed structure.

### ***Screening Step 1: Is the proposed building site on a legal lot? YES***

Applicant provided a copy of a tax assessor parcel map and a subdivision map that indicate a single 0.34-acre parcel. APN: 017-0-090-095

### ***Screening Step 2. Will the current allocation support an ADU? YES***

Allocation Details:

- Allocation Case Identifier: AA-0710
- Allocation Category: 5/8" RES meter, 1 Parcel
- Parcel Size: 0.34 acre
- Current Base Fixed Allocation: 120 HCF/yr
- Current Base Variable Allocation: 168 HCF/yr
- Fixed Base Allocation Needed to Support "Tiny Home" ADU: 60 HCF/yr
- Deduction from Variable Allocation needed to Support "Tiny Home" ADU through drought stages: 70 HCF/yr

If the ADU are provided the customary fixed dwelling allocations, the new allocation for this property would be as follows:

- New Base Fixed Allocation: **180 HCF/yr**
- New Base Variable Allocation: **98 HCF/yr**

### ***Recommendation***

If a will serve letter is to be supplied, but must clearly state:

- Letter applies only to the proposed "Tiny Home" ADU as described in the applicant-provided preliminary site plan with the file date 2-7-2023.
- There will be no increase in the total (fixed plus variable) water allocation assigned to the meter Will Serve Letter will expire after 1 year.



# Parcel Report

## Parcel Information

APN	017009009
APN Suffix	5
Document Date	20210920
Document Number	202109200
Tract Number	
Map Number	
Situs Number	142
Situs Direction	
Situs Street	FELIX
Situs Suffix	DR
Acreage	0.3400



## Cities

### City Boundary

No

## Election Precincts

### Election Precinct

Number:

MEINERS OAKS NO. 1-021

*WARNING: The information contained herein was created by the Ventura County Geographic Information System (GIS), which is designed and operated solely for the convenience of the County and related contract entities. The County does not warrant the accuracy of this information, and no decision involving a risk of economic loss or physical injury should be made in reliance thereon.*



# Parcel Report

## Political Districts

### Assembly Districts

Name:

Ordinal: 38th

### Senatorial Districts

No

Ordinal: 21st

### Congressional Districts

No

Ordinal: 24th

### Supervisory Districts

Name: Matt Laverie

Ordinal: 1st

## School Districts

### Elementary School Districts

Name: OJAI UNIFIED

### Secondary School Districts

Name: OJAI UNIFIED

## Land Use

### County SOAR

No

### 2020 County Designated Places

Name: Meiners Oaks CDP

### General Plan

Description: Very Low Density Residential

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# Parcel Report

## Overlay Zones

Name: Temporary Rental Units  
Name: Ojai Valley Dark Sky

## Zone Designation

Zoning: Various  
Zoning: Various

## Hazards

### Earthquake Fault Hazard Zones

No

### Liquefaction

No

### Military Operations Areas

No

### Tsunami Inundation

No

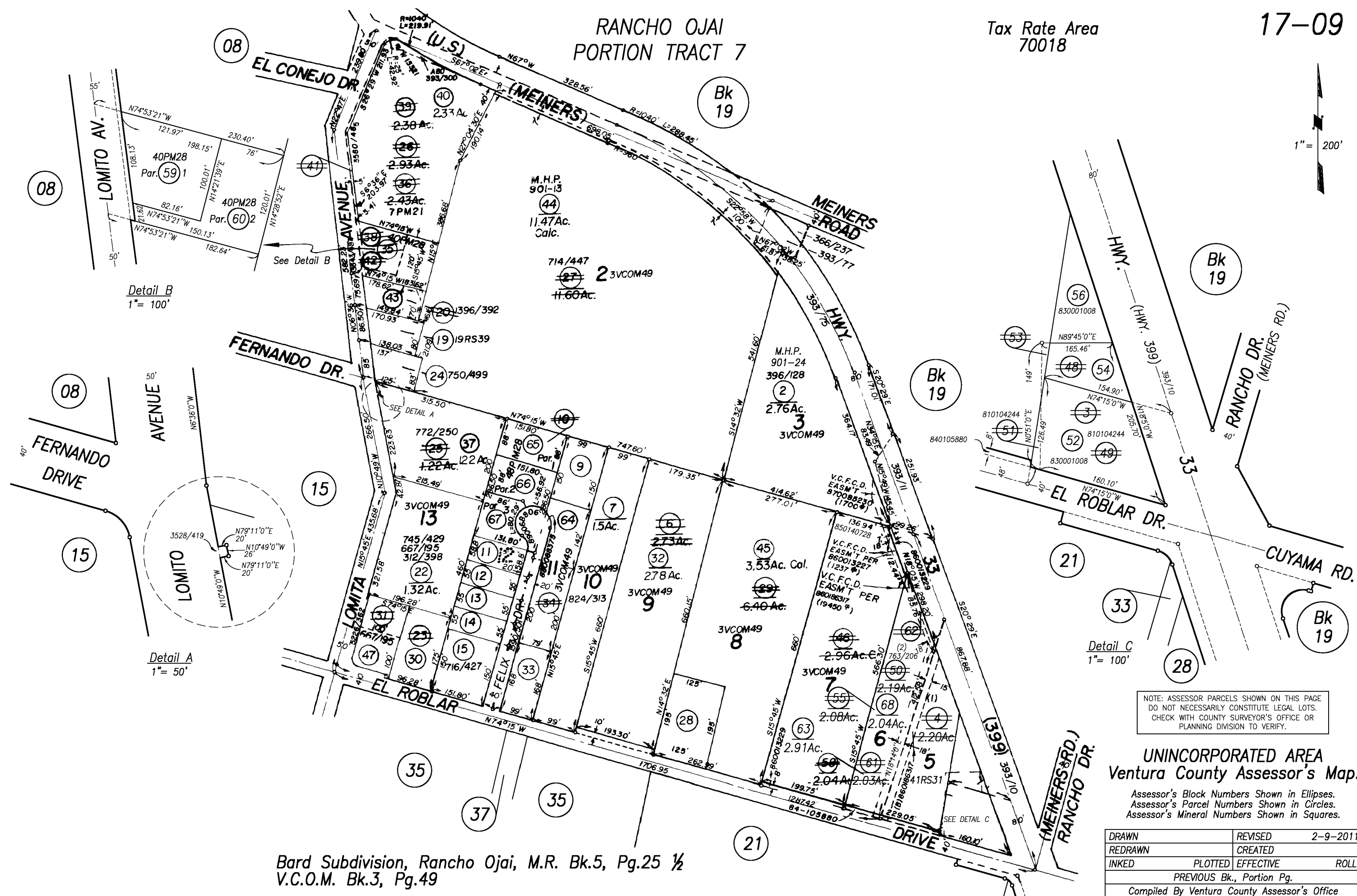
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# RANCHO OJAI PORTION TRACT 7

Tax Rate Area  
70018

17-09

1" = 200'



Bard Subdivision, Rancho Ojai, M.R. Bk.5, Pg.25 1/2  
V.C.O.M. Bk.3, Pg.49





# County of Ventura Planning Division

800 S. Victoria Avenue, Ventura, Ca. 93009-1740 • (805) 654-2488 • [vcrma.org/divisions/planning](http://vcrma.org/divisions/planning)

## Construction/Demolition ZC23-0005

Assessor's Parcel No.: 0170090095

Date Issued: 01/23/2023  
Date Expires: 7/23/2023  
Fee: \$626.00  
Issued By: A Sanchez

### All Associated APNs:

#### Property Owner:

[REDACTED]

#### Applicant:

[REDACTED]

#### Mailing Address:

142 FELIX DR  
OJAI, CA 93023

#### Mailing Address:

P. O. Box [REDACTED]  
Ojai, CA 93024

#### Telephone:

#### Telephone:

[REDACTED]

### ZONING CLEARANCE TYPE: Construction/Demolition

Site Address: 142 FELIX, OJAI 93023

Parent Case No.:

Lot Area Sq Ft: 14850

Legal Lot Status:

Lot Area Acres: 0.34

Map & Lot No:

**PROJECT DESCRIPTION:** Zoning Clearance to authorize the construction of a 461 s.f. addition to an existing 1102 s.f. single family single story residence. The proposed addition will be constructed along the east elevation of existing residence. The proposed addition will have a side setback of 16'-3", and a front setback of 31'. The height of the proposed addition will be 14' - 3.5", measured from grade to roof pitch. The addition will allow for a new bedroom and bathroom. Lighting to conform to Section 8109-4.7 Dark Sky Overlay.,

### APPLICABLE ZONING:

Zoning RE-10,000 sq ft/TRU/DKS

Area Plan: Ojai Valley

General Plan: Very Low Density Residential

Zoning: RE-10,000 sq ft/TRU/DKS

Area Plan Designation: Urban Residential 2-4 DU/AC

### Split Zoning:

Zoning: N/A

Area Plan Designation: N/A

General Plan: N/A

### BUILDING COVERAGE ALLOWANCE:

#### Maximum Building Coverage:

<u>Building Coverage</u>	<u>Existing</u>	<u>Proposed</u>	<u>Combined</u>
Prin. Structure(s) sf.	1102	461	1563
Accessory Structure(s) sf.	532	0	532
Total sf.	1634	461	2095
% of Bldg. Coverage	11.03	3.11	14.15

SQUARE FOOTAGE:

Building Coverage	Existing	Proposed	Combined
Principal Dwelling	1102	461	1563
Accessory Structure DU	532	0	532
Accessory 2nd DU	0	0	0
Principal Structure AG	0	0	0
Accessory Structure AG	0	0	0
Other Principal Structure	0	0	0
Other Accessory Structure	0	0	0

Does the cumulative GFA of any of the structures exceed the maximum ministerial allowance?

DEVELOPMENT STANDARDS

**Structure No. 1**      Existing Principal existing residence  
**Category:**      8105-4-Dwellings  
**Sub Category:**      Dwelling: Single Family  
**Specific Use:**      N/A  
**Max Height:**  
**Structure 50 Years and Older:**  
**CHB Review Required:**

**Structure No. 2**      Existing Accessory existing garage  
**Category:**      8105-4-Dwellings  
**Sub Category:**      Dwelling, Accessory Structures To  
**Specific Use:**      Building For Human Habitation  
**Max Height:**  
**Structure 50 Years and Older:**  
**CHB Review Required:**

**Structure No. 3**      Proposed Principal proposed addition to existing SFR  
**Category:**      8105-4-Dwellings  
**Sub Category:**      Dwelling: Single Family  
**Specific Use:**      N/A  
**Max Height:**      15  
**Structure 50 Years and Older:**  
**CHB Review Required:**

BELOW ARE SETBACK EXCEPTIONS THAT MAY APPLY

Allowed Intrusion into Setback

Stairway & balcony, open & unenclosed	2' 5' front, 4' rear
Porches & Landings, uncovered/unenclosed, at or below 1st floor:	6' front, 3' rear and side
Chimneys/fireplaces, masonry:	2' into all setbacks; keep min. 3' side setback
Architectural Features (e.g. eaves, cornices, canopies, etc.):	2.5' front, 2' side, 4' rear; keep min 2' side/rear setback

Are There Setback Exceptions?

Setback Exceptions:

Required Setbacks Between:

Habitable Structures:	10'
Habitable & Non-habitable Structures:	6'
Non-habitable Structures:	6'
Setbacks Between:	

ATTACHMENT(S):

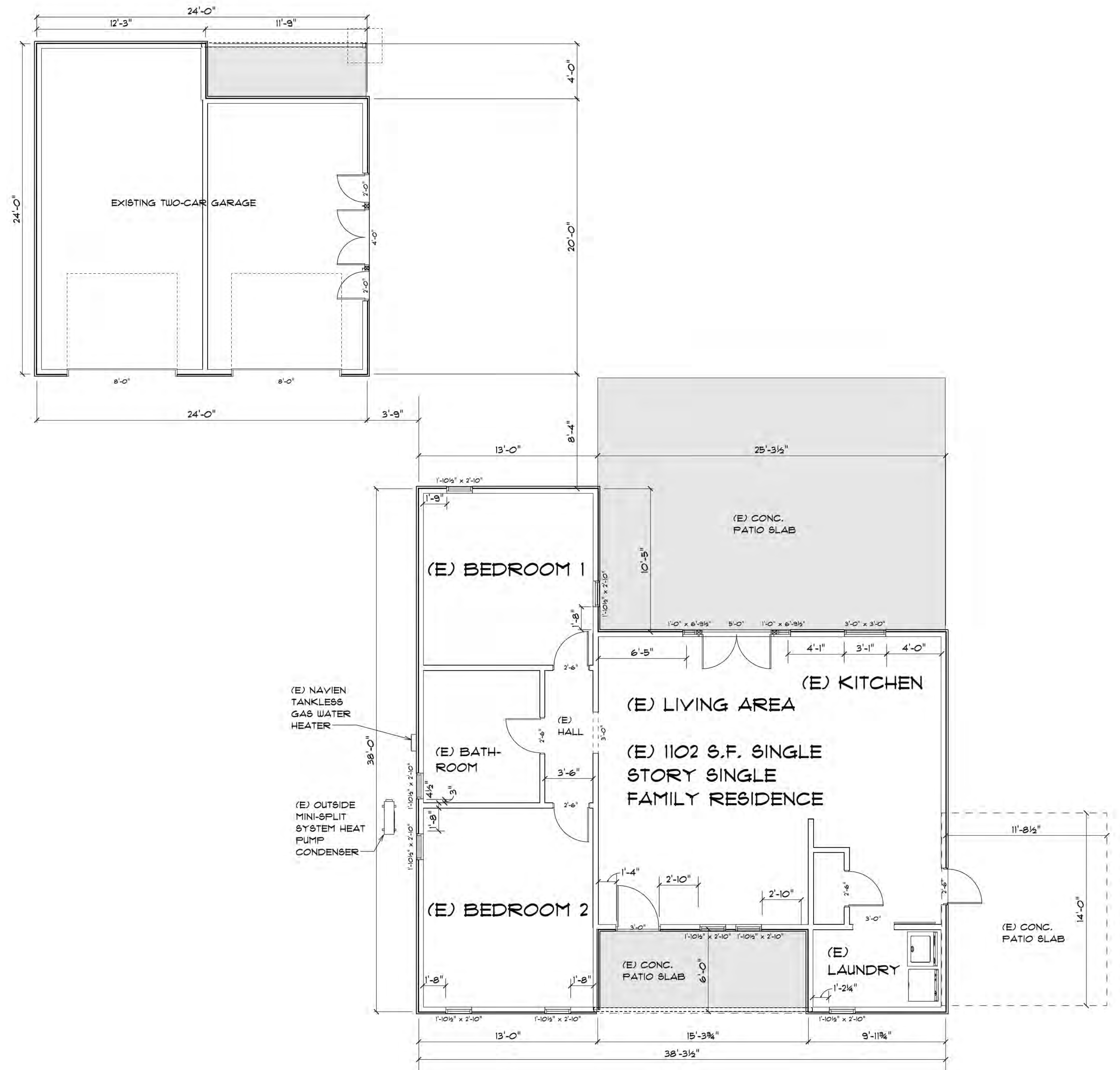
Y	Plot/Site Plan	Y	Floor Plans
N	Ordinance Standards	N	Permit Conditions
N	Compliance Agreement	Y	Elevations
N	Declaration	N	Removal Notice and Caveats
N	Cross Sections	N	Arborist Report
N	HOA Approval	N	Affidavit
OTHER:			

**NOTES:**

1. This Zoning Clearance will be nullified pursuant to Sec. 8111-2.6 of the Non-Coastal Zoning Ordinance and Sec. 8181-5.3 of the Coastal Zoning Ordinance if the information provided by the applicant was not full, true and correct; it was issued erroneously; or it does not comply with the terms and conditions of the permit originally granting the use.
2. Zoning Clearances for which a Building Permit is required are valid for 180 days following issuance of the Zoning Clearance during which time a complete Building Permit application must be submitted to the Ventura County Building and Safety Division. If a Building Permit application is not submitted within 180 days of issuance of the Zoning Clearance, the Zoning Clearance expires. Zoning Clearances shall expire 360 days from submittal of the Building Permit application even if the Building Permit application is renewed. Once a Building Permit is issued, construction must commence in accordance with the required timeline set forth in the Ventura County Building Code. This Zoning Clearance expires if the related Building Permit expires, is withdrawn, is terminated, is renewed, and/or there is a design change.
3. Zoning Clearances for which a Building Permit is not required are valid for 180 days following issuance of the Zoning Clearance. If the authorized development has not received all other required County entitlements and licenses and/or development activities have not commenced on or before the 180th day, the Zoning Clearance expires. If the development has received all other required County entitlements and licenses and development activities have commenced on or before the 180th day, the Zoning Clearance shall remain valid so long as the development remains consistent with the Zoning Ordinance or the conditions of a previously issued entitlement.
4. An applicant may apply for an extension of the 180-day Zoning Clearance expiration date provided that the request for an extension is submitted in writing no later than 30 days prior to the expiration date of the Zoning Clearance and the required fees are paid. A one-time extension may be granted by the Planning Division for a period of up to 180 days provided that (a) there are no material changes to the project or its constituent structures or development, (b) the project is consistent with all applicable General Plan policies, entitlements, and development standards of the Zoning Ordinance in effect at the time the extension is sought, and (c) the project remains subject to the Zoning Clearance permitting requirement, as opposed to a newly enacted discretionary permitting requirement.
5. The property owner is responsible for identifying all property lines and ensuring that all local and state requirements are complied with.
6. Authorizations and approvals by other County Departments that exceed the allowable limits noted herein do not excuse the property owner from complying with the provisions of this Zoning Clearance. (The stricter provisions apply).
7. The proposed project will not result in the removal of more than 50% of the roof or floor area of a non-conforming structure.
8. Property owners shall submit a Verification of Employment Declaration for Zoning Clearances authorizing Farmworker/Animal Caretaker Dwelling Units by May 15th of each year and any applicable fees demonstrating to the Planning Director's satisfaction that the farmworker/animal caretaker meets the Zoning Ordinances' applicable employment criteria.
9. If the property subject of this Zoning Clearance is within the boundary of a Homeowner's Association or Property Owner's Association, additional review and approval of the project may be required by the HOA/POA's Conditions, Covenants & Restrictions (CC&R's). HOA/POA review and approval is the responsibility of the property owner.
10. If the proposed project is located within the Dark Sky Overlay Zone, all new outdoor lighting shall be installed to be consistent with standards outlined in Sec. 8109-4.7 of the Non-Coastal Zoning Ordinance.

**BY SIGNING BELOW I CERTIFY THE FOLLOWING:**

- I am the owner of the subject property or I am the authorized agent of the property owner and have his/her permission to obtain this Zoning Clearance. I have illustrated on the attached site plan all of the following applicable attributes: existing and proposed structures, Protected Trees (Oaks, Sycamores, and any 30+” diameter trees), marshes, wetlands, streams, rivers, landslides, edges and toes of slopes, abandoned or active oil wells, septic systems and leach fields. I have accurately illustrated all roads, public and private easements, and utilities on the attached site plan and accept responsibility for any encumbrances, restrictions, or agreements on the subject property.
- The information provided in this Zoning Clearance and attached site plans, floor plans, and elevations and landscape plans (if applicable) are full, true and correct.
- I have been informed that I am responsible for contacting the applicable HOA/POA to ensure compliance with the CC&R's.
- I have reviewed, read, and understand the terms, notes and conditions of this Zoning Clearance and as depicted in related attachments, and agree to abide by them and all other provisions of the Zoning Ordinance. I further understand that this Zoning Clearance can be nullified for cause as noted above.
- I agree to defend, indemnify and hold harmless the County of Ventura, including all of its boards, agencies, departments, officers, employees, agents and volunteers, against any and all claims, lawsuits (whether against property owner, County of Ventura or others), judgments, debts, demands and liability, including those arising from injuries or death of persons and for damages to property, arising directly or indirectly out of the obligations of this Zoning Clearance or undertaken or out of operations conducted or subsidized in whole or in part by property owner, save and except claims or litigations arising through the sole negligence or wrongdoing and/or sole willful misconduct of County of Ventura.



AS BUILT FLOOR PLAN  
SCALE: 1/4" = 1'-0"

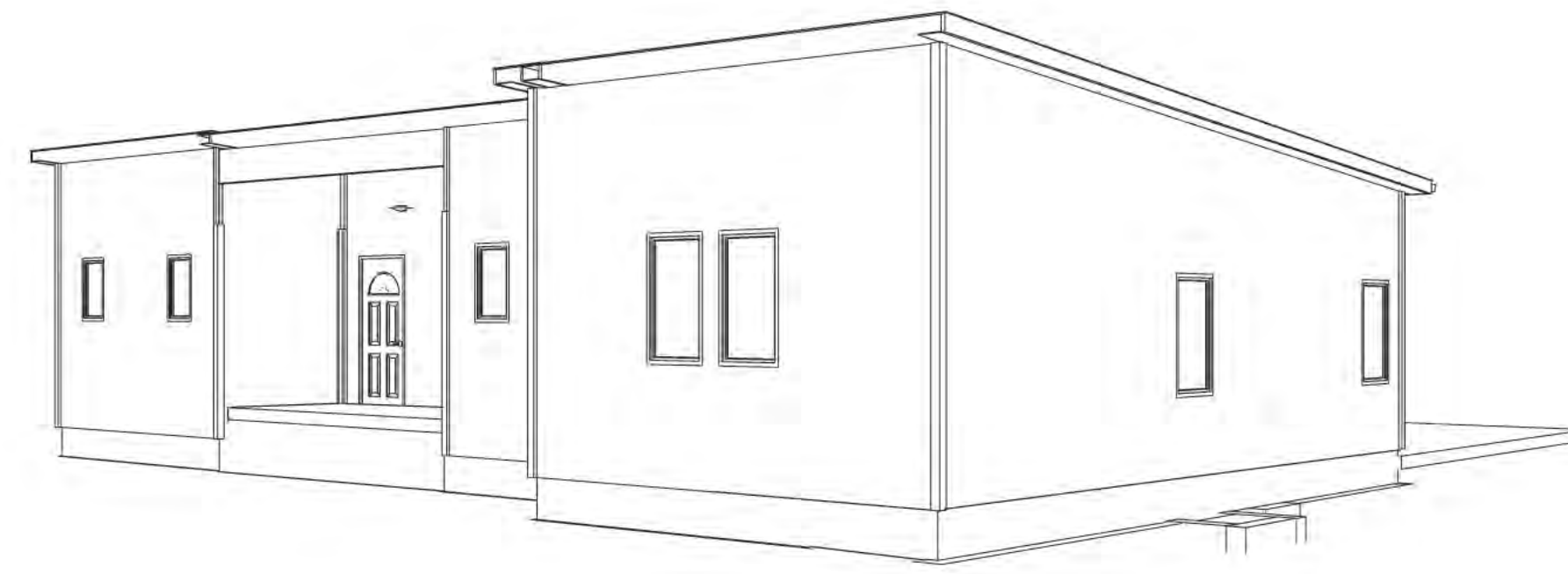
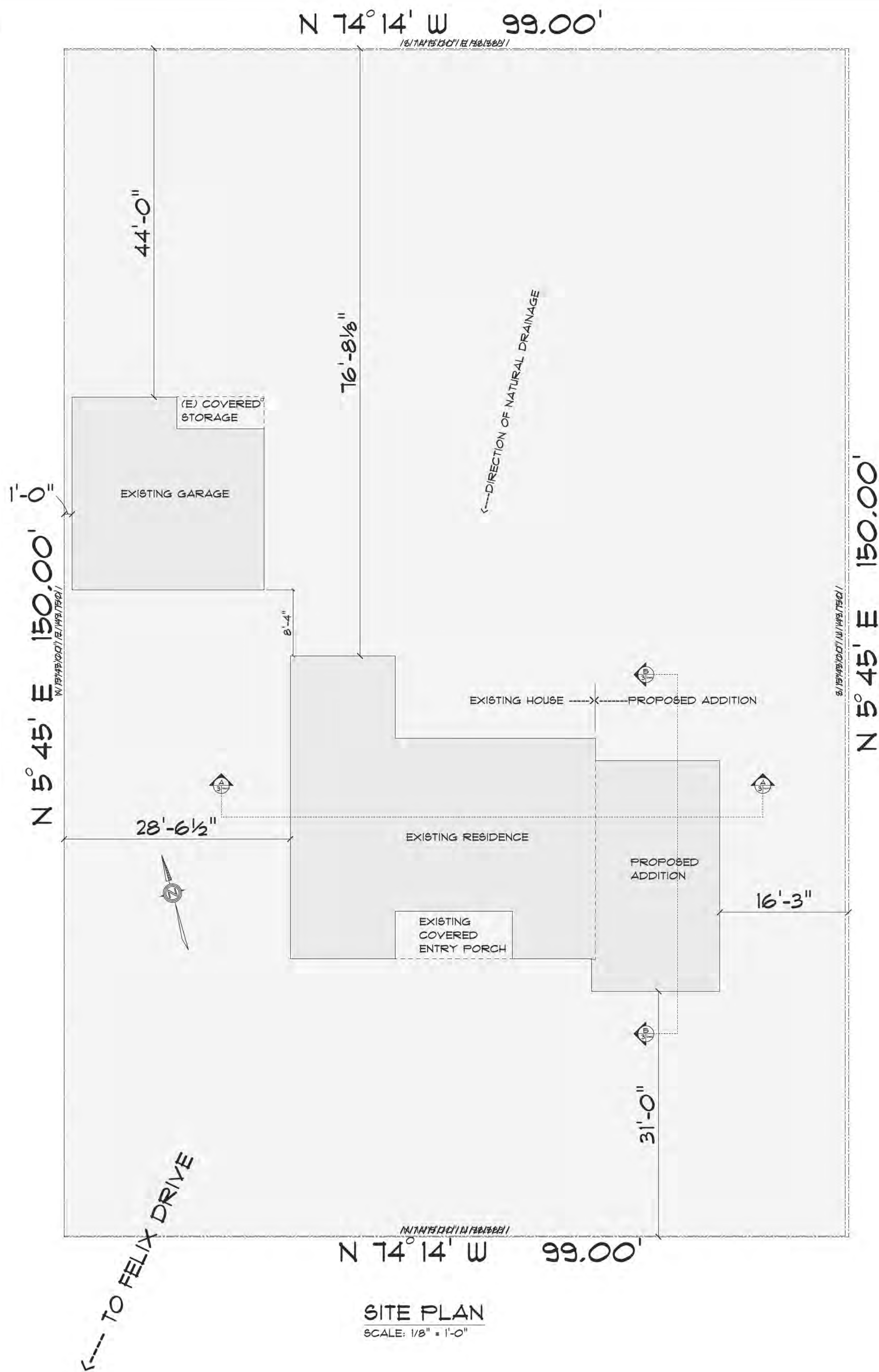


JON DIEGES, ARCHITECT

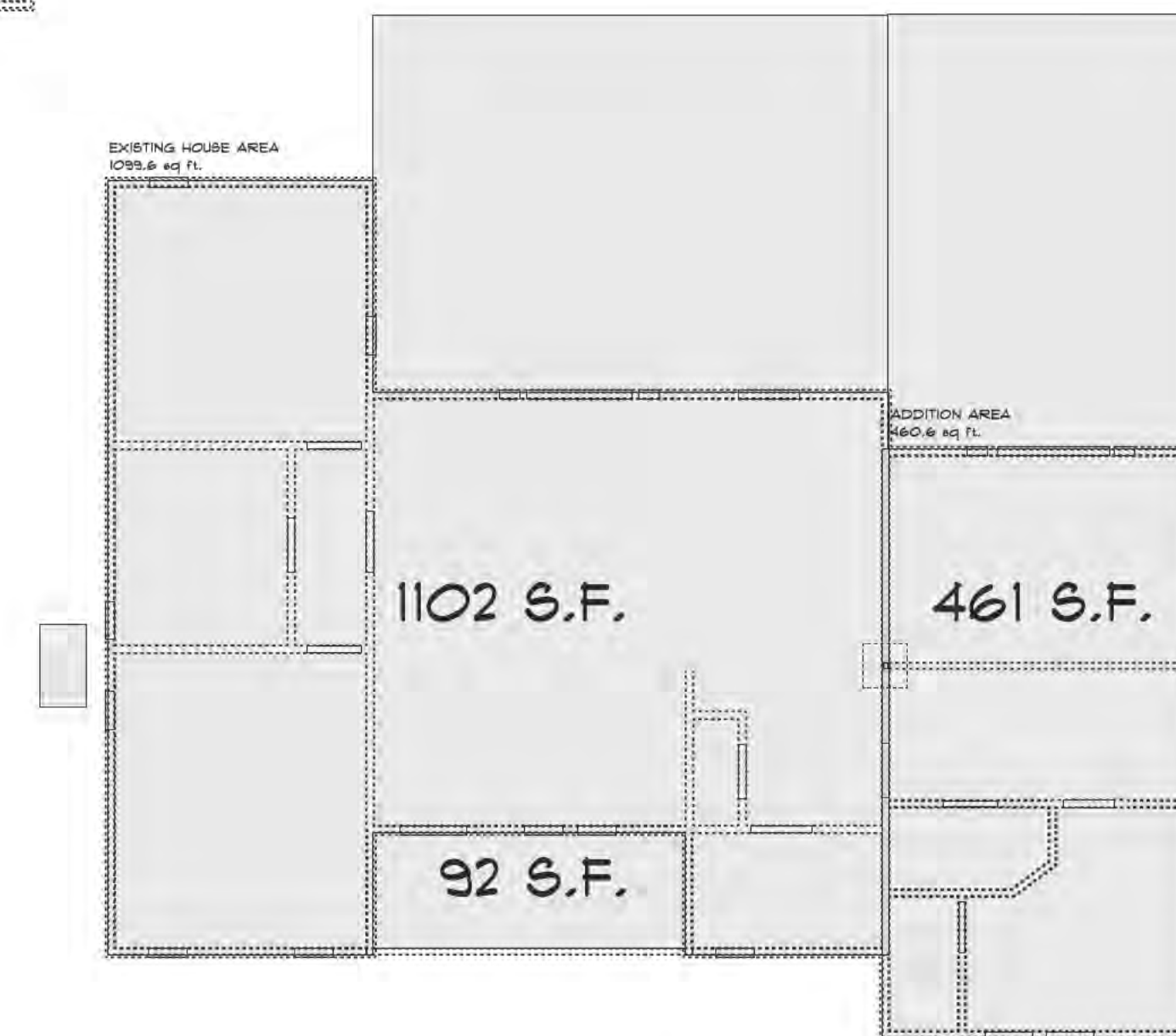
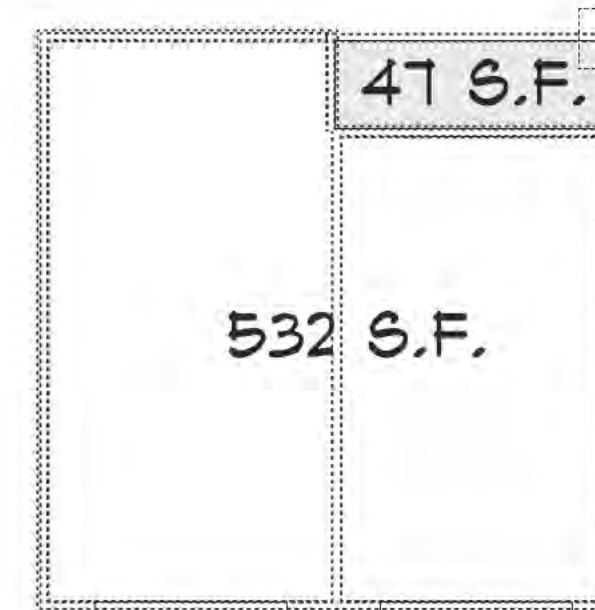
CALCULATIONS AND DRAWING BY JON DIEGES  
USING 2021 AUTOCAD 2022 COMPUTER DRAFTING  
DATE: Friday, February 3, 2023

PAGE:  
2/18  
AS BUILT PLAN





3D LOOKING NORTHWEST



AREA ANALYSIS

SCALE: 1/8" = 1'-0"

## SCOPE CODES & SITE DATA

CONSTRUCT AN 461 S.F. ADDITION TO AN EXISTING 1102 S.F. HOUSE FOR A COMPLETED TOTAL OF 1563 S.F. IN ACCORDANCE WITH THE 2022 CALIFORNIA BUILDING, ELECTRICAL, MECHANICAL, PLUMBING, ENERGY AND GREEN BUILDING CODES AND THE 2022 VENTURA COUNTY BUILDING CODE

## DRAWING SCHEDULE

Site Plan Index & Scope	1
AS BUILT PLAN	2
AS BUILT FOUNDATION	3
ADDITION PLAN	4
ELEVATIONS	5
OPENING SCHEDULE	6
FOUNDATION PLAN	7
FLOOR FRAMING PLAN	8
WALL FRAMING PLAN	9

## DRAWING SCHEDULE

SHEAR WALL ELEVATIONS	10
ROOF FRAMING PLAN	11
ELECTRICAL PLAN	12
TITLE 24 CF1R FORMS PG A	13
TITLE 24 CF1R FORMS PG B	14
MANDATORY MEASURES & SW1	15
GREEN BUILDING PG A	16
GREEN BUILDING PG B	17
NAILING SCHEDULE	18



JON DIEGES, ARCHITECT

93023 (Job#11-1-2021) christopher\_odonnell@hotmail.com

CALCULATIONS AND DRAWING BY JON DIEGES

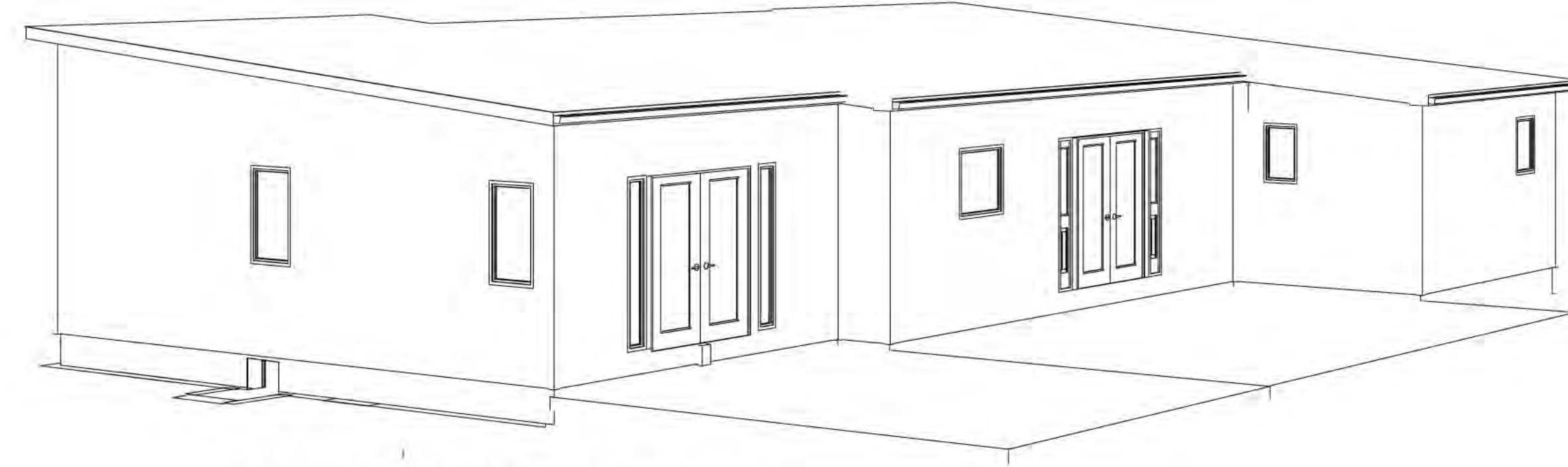
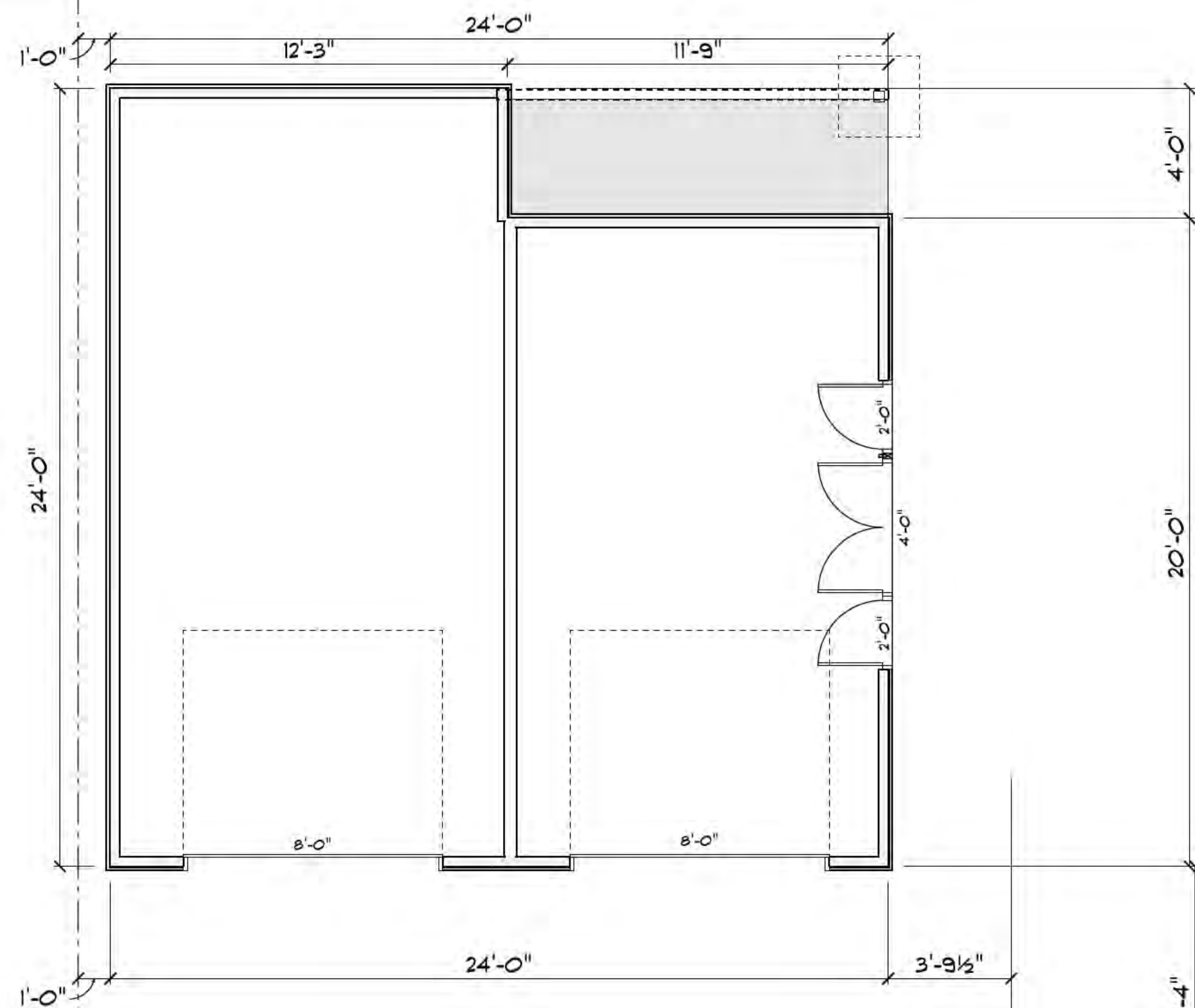
USING **SOFTPLAN** 2022 COMPUTER DRAFTING

DATE: Friday, February 3, 2023

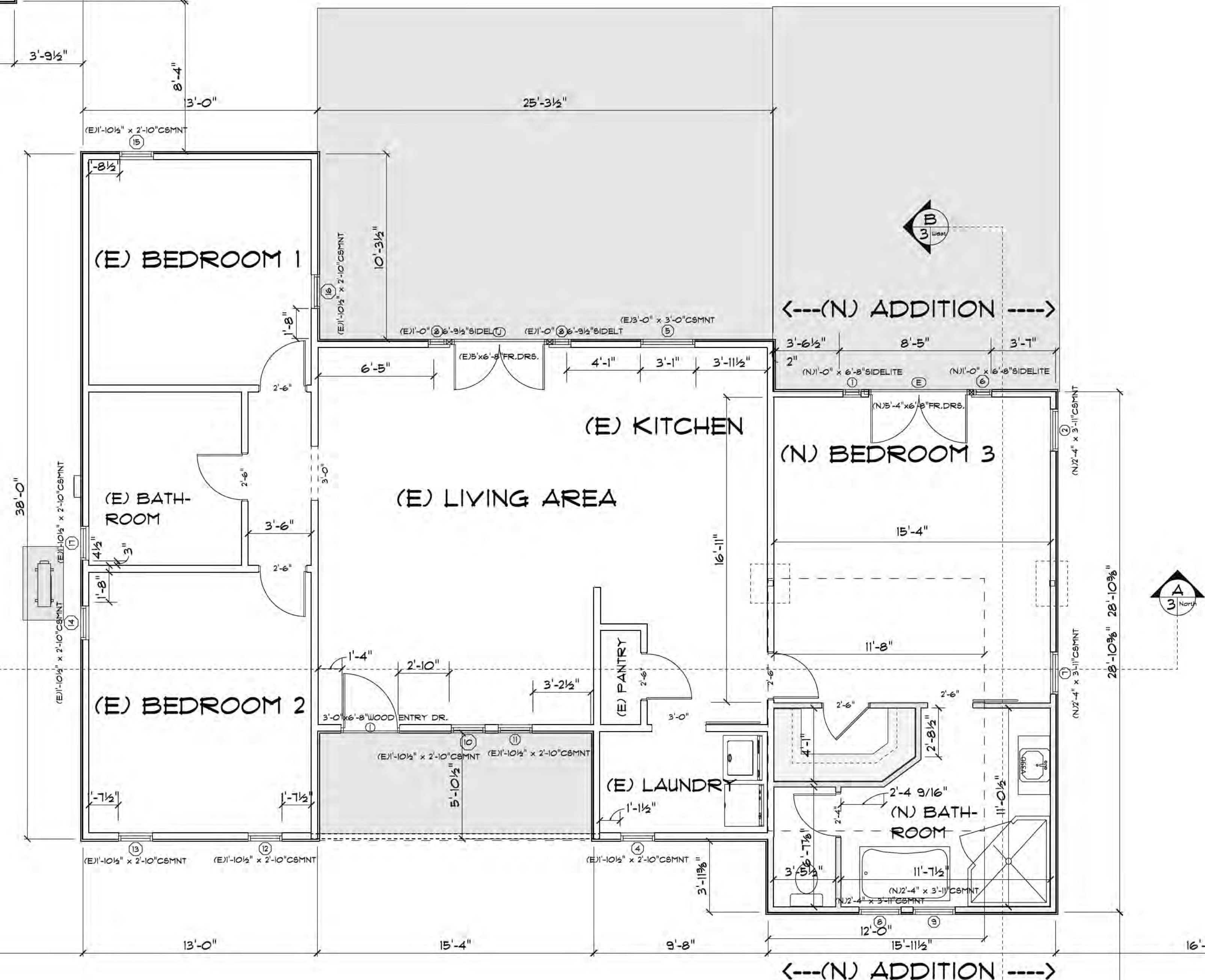
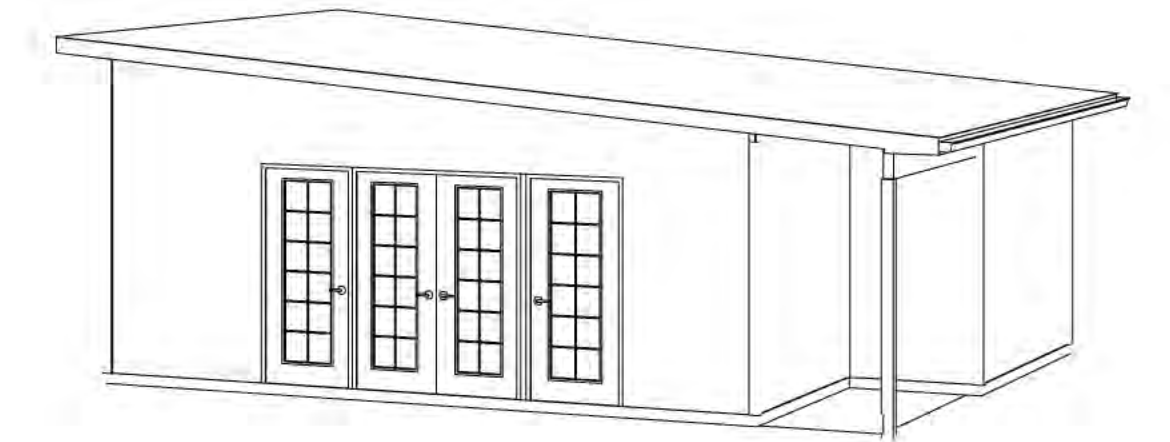
PAGE: 1/18

Site Plan Index & Scope





3D LOOKING SOUTHWEST  
SCALE: 0.1500" = 1'-0"



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



**JON DIEGES, ARCHITECT**

[Redacted Signature]

CALCULATIONS AND DRAWING BY JON DIEGES  
USING **SOTIPAN** 2022 COMPUTER DRAFTING  
DATE: Friday, February 3, 2023

PAGE: **4/18**  
ADDITION PLAN

LICENSED ARCHITECT  
JON DIEGES  
C-10466  
RENEWAL DATE





## Will-Serve/Proof of Service/Meter Request Form

A "Will-Serve" letter may be issued upon the District's completion of an analysis determining that all conditions of approval are met.

### Required Attachments:

1. Drawing/sketch of project (with dimensions)
  2. Tax Assessors parcel map that includes the subject property.
  3. Subdivision map covering the location of the project.\*
  4. Documentation of existing permitted dwellings on the property.
- \* Clearly indicate all APNs and legal lots involved in the project. Ensure any markups to county documents do not obscure the underlying information.

### Applicant Information:

Account Number:	02- [REDACTED] -05
Name:	J. [REDACTED]
Company:	[REDACTED]
Mailing Address:	166 N. Encinal Ave Ojai, CA 93023
Phone Number:	[REDACTED]
Email Address:	[REDACTED]@gmail.com

### Project Information:

New Meter Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Assessor's Parcel #(s):	017-0-144-090
Service Address:	166 N. Encinal Ave
City, State, Zip code:	Ojai, CA 93023
Planning Dept Case #:	[REDACTED]
# of Existing Dwellings:	2 - 2018, 2022
Date Dwellings Permitted:	[REDACTED]
Type of Construction:	<input type="checkbox"/> New Construction <input checked="" type="checkbox"/> Tenant Improvement <input checked="" type="checkbox"/> ADU <input type="checkbox"/> Other
Type of Use:	<input type="checkbox"/> Single Family Res <input checked="" type="checkbox"/> Multi-Family Res (# of dwellings _____) <input type="checkbox"/> Other
Project Dimensions (Sqft):	458

Continued on Next Page



## Will-Serve/Proof of Service/Meter Request Form

### Detailed Project Description:

Greetings. I am seeking a Will Serve letter from MOWD. I am in the process of converting an e

*Please allow a minimum of 60 days to evaluate and process Will-Serve letter and new meter requests.  
The time frame will depend on receipt of satisfactory information from the applicant and schedule  
of pertinent District Committees and Board of Directors meetings.*

☒ **I acknowledge that MOWD will bill a \$100 Administrative Fee for processing this request.**

**Applicant Signature**

**Date**

## **Review of Application for Will Serve Letter**

**Conversion of a 458 sf workshop into an ADU with existing plumbing for toilet, sink and washer, only adding 3x3 shower for Property with Existing Meter at 166 N Encinal.**

### ***Proposal***

The proposed project consists of converting a 458-sf workshop with existing toilet, sink and washer to an ADU, adding a 3x3 shower. Property was issued a Will-Serve letter in 2017.

Applicant provided a detailed site plan, showing the location of the proposed structure.

### ***Screening Step 1: Is the proposed building site on a legal lot? YES***

Applicant provided a copy of a tax assessor parcel map and a subdivision map that indicate a single 0.17-acre parcel. APN: 017-0-144-09

### ***Screening Step 2. Will the current allocation support an ADU? YES***

Allocation Details:

- Allocation Case Identifier: AA-0386
- Allocation Category: 5/8" RES meter, 1 Parcel
- Parcel Size: 0.17 acre
- Current Base Fixed Allocation: 120 HCF/yr
- Current Base Variable Allocation: 133 HCF/yr
- Fixed Base Allocation Needed to Support "Tiny Home" ADU: 60 HCF/yr
- Deduction from Variable Allocation needed to Support "Tiny Home" ADU through drought stages: 70 HCF/yr

If the ADU are provided the customary fixed dwelling allocations, the new allocation for this property would be as follows:

- New Base Fixed Allocation: **180 HCF/yr**
- New Base Variable Allocation: **63 HCF/yr**

### ***Recommendation***

If a will serve letter is to be supplied, but must clearly state:

- Letter applies only to the proposed "Tiny Home" ADU as described in the applicant-provided preliminary site plan with the file date 2-14-2023.
- There will be no increase in the total (fixed plus variable) water allocation assigned to the meter Will Serve Letter will expire after 1 year.



I am requesting a "Will Serve" letter from MOWD. Ventura County is requiring this letter before they grant final approval for my newly constructed (90% completed), previously permitted (March 2023) 458 sq. ft Workshop.

In order to have a separate electrical meter service to this building, VC B/S will only approve this if the Workshop is converted to an ADU. The VC Planning Department approved this ADU conversion on Jan 5, 2023. However, the ADU conversion requires the addition of a 3'x3' shower. The Workshop is already plumbed for a toilet, washroom sink, washer, and utility sink.

To do this conversion, VC B/S is requiring a completely new building permit. I need to submit a new complete set of plans showing this shower addition. As part of this new permit process, they require a "Will Serve" letter from MOWD.

The currently permitted Workshop is connected to our water meter/line. We are not applying for a new water meter, increased water allocation, or increasing the size of our current water meter.



November 9, 2017,

RE: Will Serve Letter for the existing 5/8" x 3/4" water service

APN: 017-0-144-090

Address: 166 N. Encinal

Ojai, Ca 93023

Dear Customer,

Meiners Oaks Water District organized under Chapter 592 of the Acts of the Fortieth Session of the California Legislature and Amendments and California Water Code Section 30500.1 for the purpose of storing, distribution and selling water.

Property of land is comprised of approximately .17 acres bearing the Assessor's Parcel No.017-0-144-090.

Property owner on .17 acres of land is currently served by Meiners Oaks Water District to provide water for domestic purposes only. This service is provided by a one (5/8" x 3/4") meter with a maximum flow of **30** gallons per minute (GPM).

It is also Meiners Oaks Water understanding that there is no further need to increase flow to meet any further domestic or agriculture uses or Ventura County Fire protection District requirements for any proposed or existing building.

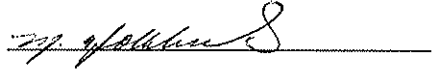
Any additional water needed above .44 acre feet of water/year of water to serve said property must be purchased from Meiners Oaks Water District and Casitas Municipal Water District according to their Rates and Regulations and water service Policies.

Plumbing devices shall include a maximum **1.2** gallon per flush toilets, **2.5** gpm shower heads and aerators on all faucets inside the structure.

By this letter Meiners Oaks Water certifies that the subject parcel is within the service area of Meiners Oaks Water District. Said certification is subject to all applicable terms and conditions contained within Meiners Oaks Water Districts' Rates and Regulations for water service and/or Meiners Oaks Water Districts water service policy for water service as amended from time to time.

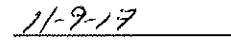
Any construction shall include water efficient plumbing devices as specified by Meiners Oaks Water District. Owner is to provide Meiners Oaks Water with the type of plumbing fixtures, description of

landscaping and total estimated annual requirements and certify that it is under aforementioned allocation.

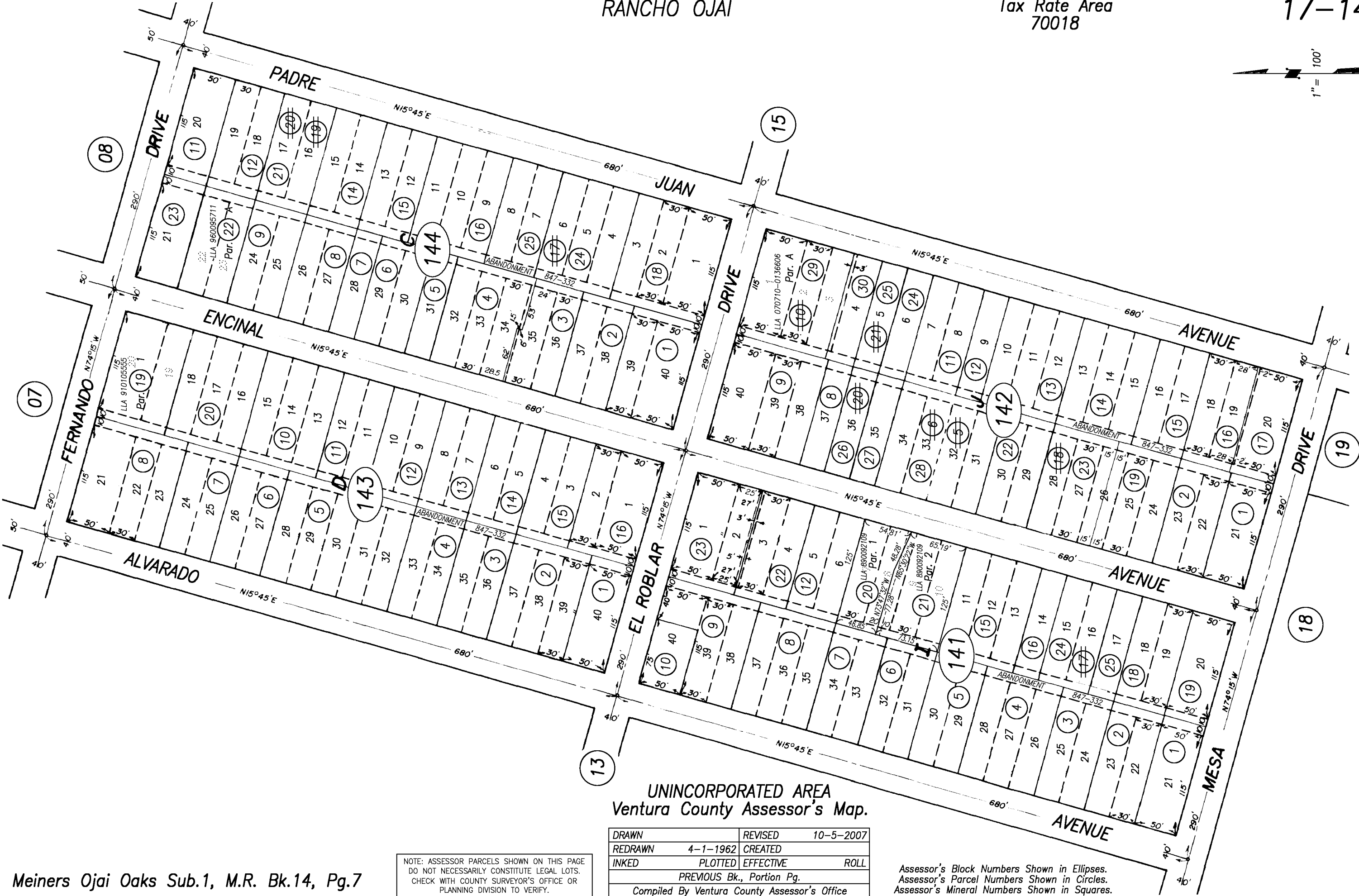
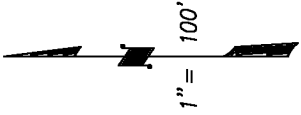


Mike Hollebrands, General Manager

Meiners Oaks Water District



Date





Accessory Dwelling Unit  
166 N. Encinal Ave  
Ojai, CA 93023

Revisions		
No.	Description	Date
1	Plan check corrections	2-8-22

APN:  
017-0-144-090



TITLE SHEET  
C21-001401

PROPOSED CONSTRUCTION

DRAWN  
LR and MK  
CHECKED  
DATE  
01/05/2023  
SCALE  
AS NOTED  
JOB NO.  
SHEET  
1

GENERAL NOTES

PROJECT DATA

SHEET INDEX

UTILITY COMPANIES

- THE CONTRACTOR SHALL VERIFY ON SITE ALL DIMENSIONS PRIOR TO STARTING WORK. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO PROCEEDING.
- UNLESS OTHERWISE NOTED OR SHOWN, ALL PHASES OF WORK ARE TO CONFORM TO THE MINIMUM STANDARDS OF THE UNIFORM BUILDING CODE (LATEST GOVERNING EDITION), LOCAL BUILDING CODES AND THOSE ASTM SPECIFICATIONS UPON WHICH THE STANDARDS ARE BASED. WHERE CONFLICTS BETWEEN BUILDING CODES AND SPECIFICATIONS OCCUR, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
- ALL ASTM DESIGNATIONS REFERRED TO ON THESE DRAWINGS SHALL BE THE LATEST ADOPTED OR REVISED SPECIFICATIONS.
- ALL DIMENSIONS TO TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS.
- NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, UNLESS OTHERWISE NOTED OR SHOWN. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK TO COMPLETION OF THE PROJECT, AS INDICATED IN THE CONTRACT DOCUMENTS, AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS AND PROCEDURES.
- DETAILS: CONDITIONS NOT SPECIFICALLY DETAILED SHALL BE CONSTRUCTED THE SAME AS SIMILAR CONDITIONS DETAILED AND/OR INDICATED ON THE PLANS.
- NAILING: NAILING NOT SHOWN ON THE PLANS SHALL BE IN ACCORDANCE OF GOVERNING BUILDING CODES. (SEE NAILING SCHEDULE.)
- PROVIDE ALL TEMPORARY BRACING, SHORING AND GUYING TO AVOID EXCESSIVE STRESSES ON STRUCTURAL ELEMENTS, AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING ERECTION.
- CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARANCE AND EARTHWORK OPERATIONS OR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNTAINS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- DO NOT CUT OR TRIM ANY TREES ON THE PROPERTY UNLESS OTHERWISE NOTED OR DIRECTED BY DESIGNER AND OWNER. AVOID FILLING OR CUTTING AROUND EXISTING TREES TO REMAIN. PROTECT THESE TREES WITH BARRIERS DURING CONSTRUCTION.
- CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED ROOF. LOAD SHALL NOT EXCEED DESIGN LIVE LOAD FOR EACH PARTICULAR LEVEL.
- CONTRACTOR SHALL PROTECT THE ADJOINING PROPERTY DURING EXCAVATION. PROTECTION SHALL BE SUCH THAT ANY EARTH OF THE ADJOINING PROPERTY WILL NOT CAVE-IN OR SETTLE.
- THE CONTRACTOR SHALL NOTIFY THE "OWNER" OF ANY CONDITION REQUIRING MODIFICATION OR CHANGE, BEFORE PROCEEDING WITH WORK.
- ALL CONSTRUCTION TO PROVIDE A WATERPROOF, WEATHER TIGHT STRUCTURE. CONTRACTOR SHALL SEAL AND CAULK AS NECESSARY TO ACHIEVE THIS REQUIREMENT.
- ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN ENGINEER REGISTERED IN THE STATE OF CALIFORNIA.
- CONTRACTOR SHALL VERIFY IN THE FIELD ALL EXISTING CONDITIONS SHOWN ON THE DRAWINGS PRIOR TO COMMENCEMENT OF WORK.
- SHEET METAL & FLASHING: PROVIDE AND INSTALL SHEET METAL AND OR COPPER FLASHING AS DETAILED AND REQUIRED TO INSURE WATERTIGHT ASSEMBLY. ALL PIECES SHALL BE FABRICATED IN MAXIMUM PRACTICAL LENGTHS. FREE OF WARPS, BUCKLES AND DENTS AND OTHER DEFECTS. (U.B.C. 1402.2 FLASHING & COUNTERFLASHING: 1508.4 VALLEY FLASHING & 1509, OTHER FLASHING.)
- NO POTABLE WATER MAY BE USED FOR COMPACTION OR DUST CONTROL PURPOSES IN CONSTRUCTION ACTIVITIES WHERE THERE IS A REASONABLE AVAILABLE SOURCE OF RECLAIMED WATER OR OTHER SUB POTABLE WATER APPROVED BY THE VENTURA COUNTY HEALTH DEPARTMENT & APPROPRIATE FOR SUCH USE. ORD 3522, SECTION 6(K).
- ALL HOSES USED FOR ANY CONSTRUCTION ACTIVITIES SHALL BE EQUIPPED WITH A SHUT OFF NOZZLE. WHEN AN AUTOMATIC SHUT OFF CAN NOT BE PURCHASED OR OTHERWISE OBTAINED FOR THE SIZE & TYPE OF HOSE IN USE, THE NOZZLE SHALL BE AN AUTOMATIC SHUT OFF NOZZLE. ORD 3522, 6(K).
- COPPER WATER LINES SHALL BE TYPE "L". MIN. SHOWERS AND TUB-SHOWER COMBINATIONS SHALL BE PROVIDED WITH INDIVIDUAL CONTROL VALVES OF THE PRESSURE BALANCE OR THERMOSTATIC MIXING TYPE. PLUMBING FIXTURES AND PLUMBING FITTING SHALL MEET THE FOLLOWING STANDARDS:  
A. WATER CLOSET = 1.8 GPM MAX.  
B. SHOWERHEAD = 2.8 GALLONS PER FLUSH MAX.  
C. LAVATORY FAUCETS = 1.2 GPM MAX.  
D. SINK FAUCETS = 1.8 GPM MAX. TITLE 24, VCBC, UPC
- FIRE BLOCK STUD WALLS (8" TO 10" INTERVALS HORIZ. & VERT.) ENCLOSED AND CONCEALED SPACES, AND AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS, ATTIC AND CHIMNEY CHASE, STAIR STRINGERS, AND SIMILAR PLACES AT CEILING AND FLOOR LEVELS (708.2.1 UBC)
- SAFETY: THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SAFETY ON THE JOB SITE AND ADHERE TO ALL FEDERAL, STATE, LOCAL, AND O.S.H.A. REGULATIONS.
- AFTER COMMENCEMENT OF WORK, ANY FAULTS IN CONSTRUCTION DUE IN PART TO ERRORS IN THE CONSTRUCTION DOCUMENTS, SHALL BE CORRECTED BY CONTRACTOR OR SUBCONTRACTOR.
- ALL HANDRAILS SHALL BE CONTINUOUS THE FULL LENGTH OF THE STAIRS. HANDGRIP PORTION OF ALL HANDRAILS SHALL NOT BE LESS THAN 1-1/4" NOT MORE THAN 2" IN CROSS SECTIONAL DIMENSION, OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE.
- PROVIDE EMERGENCY EXIT DOOR OR WINDOW FROM BASEMENT AND/OR SLEEPING ROOMS. NET CLEAR WINDOW OPENING AREA SHALL NOT BE LESS THAN 5.7 SQ. FEET (821 SQ. INCHES). MIN. NET WINDOW OPENING HEIGHT DIMENSION: 24" CLEAR; MIN. NET WIDTH DIMENSION, 20" CLEAR. FINISH SILL HEIGHT MAX. 44" ABOVE FLOOR.
- IN ACCORDANCE WITH PERTINENT ITEMS OF THESE NOTES AND THOSE ITEMS SO INDICATED ON THE DRAWINGS "CAREFULLY" DEMOLISH AND REMOVE FROM THE JOB SITE THOSE ITEMS SCHEDULED TO BE SO DEMOLISHED AND REMOVED.
- USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND THE METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK.
- SURFACE CONDITIONS: EXAMINE THE AREAS AND CONDITIONS UNDER WHICH WORK WILL BE PERFORMED. CORRECT CONDITIONS DETRIMENTAL TO TIMELY & PROPER COMPLETION OF THE WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED.
- DEMOLITION: BY CAREFUL STUDY OF THE DRAWINGS, DETERMINE THE LOCATION AND EXTENT OF SELECTIVE DEMOLITION TO BE PERFORMED.
- SEE GRADING PLAN FOR EXACT LOCATION OF THE NEW RESIDENCE. SEE GRADING PLAN FOR PAD ELEVATION.  
SOILS REPORT NO.: N/A  
SOILS REPORT UPDATE NO.: N/A  
GRADING PERMIT NO.: N/A  
VOLUME OF GRADING-EXCAVATION AND FILL: +/-50 C.Y.  
EXPANSION INDEX: N/A  
BEARING CAPACITY: 2500 PSF
- UNLESS INDICATED OTHERWISE, ALL PORTIONS OF THIS PROJECT SHALL BE SUBJECT TO THE REQUIREMENTS OF THE FOLLOWING:  
2019 CALIFORNIA BUILDING CODE  
2019 CALIFORNIA PLUMBING CODE  
2019 CALIFORNIA MECHANICAL CODE  
C.C.R. (CAL. CODE OF REG.) TITLE 19 AND 24  
2019 AMERICANS WITH DISABILITIES ACT  
2019 CALIFORNIA ELECTRICAL CODE  
ALL OTHER APPLICABLE CODES, REGULATIONS AND ORDINANCES

**SCOPE OF WORK:**  
Conversion of existing 458 sq. ft. workshop to an accessory dwelling unit (ADU)

**ZONING DATA:**

APN 0170144090  
Lot Size 7,500 SF  
Zoning R-1  
High Fire Zone No  
Fire Sprinklers Yes  
Type of Construction V-B  
Number of Stories 1  
Number of Bedrooms 0  
Number of Bathrooms 1/2  
Setbacks: Front- 20,' rear 6', sides 5'  
Occupancy Group R-3  
Soils Report None- see below  
Expansion Index 91-130

HFH = NO  
Sprinklers = YES  
E.I. = 91-130

**Notes:**

- Waiver of soils report allowed per approved "Foundation and Soils Investigation Request" by Ventura County Building and Safety Office

**BUILDING DATA:**

Conditioned Area: 458 SF

**PROJECT DIRECTORY:**

Owner: Jacob and Keri Setnicka  
166 N. Encinal Ave  
Ojai, CA 93023

**Structural Design:**

Laima Reeder  
Oxnard, CA 93035  
805 985-1700

**ARCHITECTURAL**

- Title Sheet
- Site Plan
- Proposed Floor Plan, Elevations/Sections
- Roof Plan, Electrical Plan

**STRUCTURAL**

- SO.1 Structural Notes
- SO.2 Typical Details
- S-1 Foundation Plan
- S-2 Framing Plan

**GAS** Southern California Gas  
PO BOX 1626  
MONTEREY PARK CA 91754-8626

**ELECTRIC** Southern California Edison Co  
10060 Telegraph Road  
Ventura, CA 93003

**TELECOM** Pacific Telephone Co.  
2459 Palma Drive  
Ventura, CA 93003

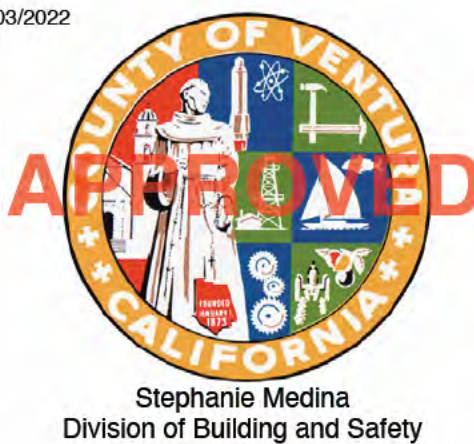
**SEWER** OVSD  
1072 Tico Road  
Ojai, CA 93023

**WATER** Meiners Oaks Water  
202 W. El Roblar Dr.  
Ojai, CA 93023

ADDITIONAL NOTES

The discharge of pollutants to any storm drainage system is prohibited per the Ventura Countywide Municipal Storm Water NPDES Permit No. CAS 5004002. No solid waste, petroleum byproducts, soil particulate, construction waste materials, or wastewater generated on the construction site or by construction activities shall be placed, conveyed, or discharged into the street, gutter, or storm drain system.

03/03/2022



This set of plans and specifications MUST be kept on the job at all times and it is unlawful to make any changes or alterations on site without written permission from the Building Inspection Dept., County of Ventura. The stamping of this plan and specifications SHALL NOT be held to permit or to be an approval of the violation of any provisions of any County Ordinance of State Law.

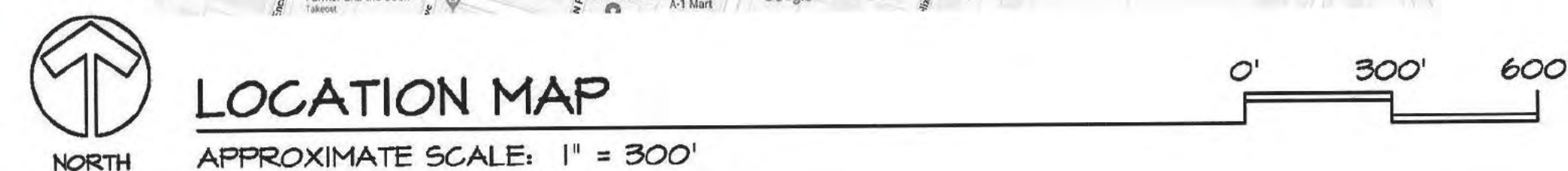
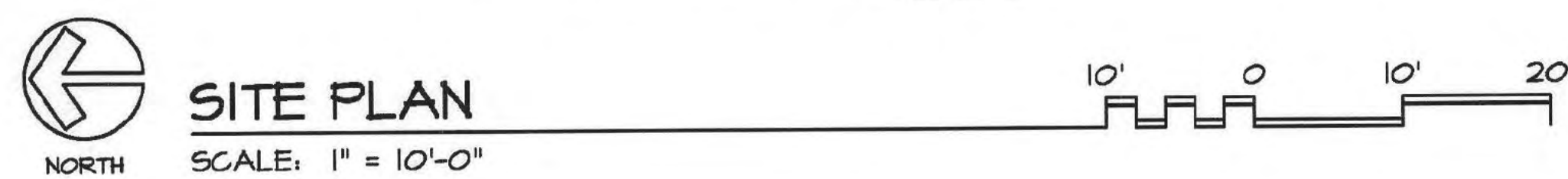


LOCATION MAP

APPROXIMATE SCALE: 1" = 300'

0' 300' 600'



[illegible]

APN:  
017-0-144-090



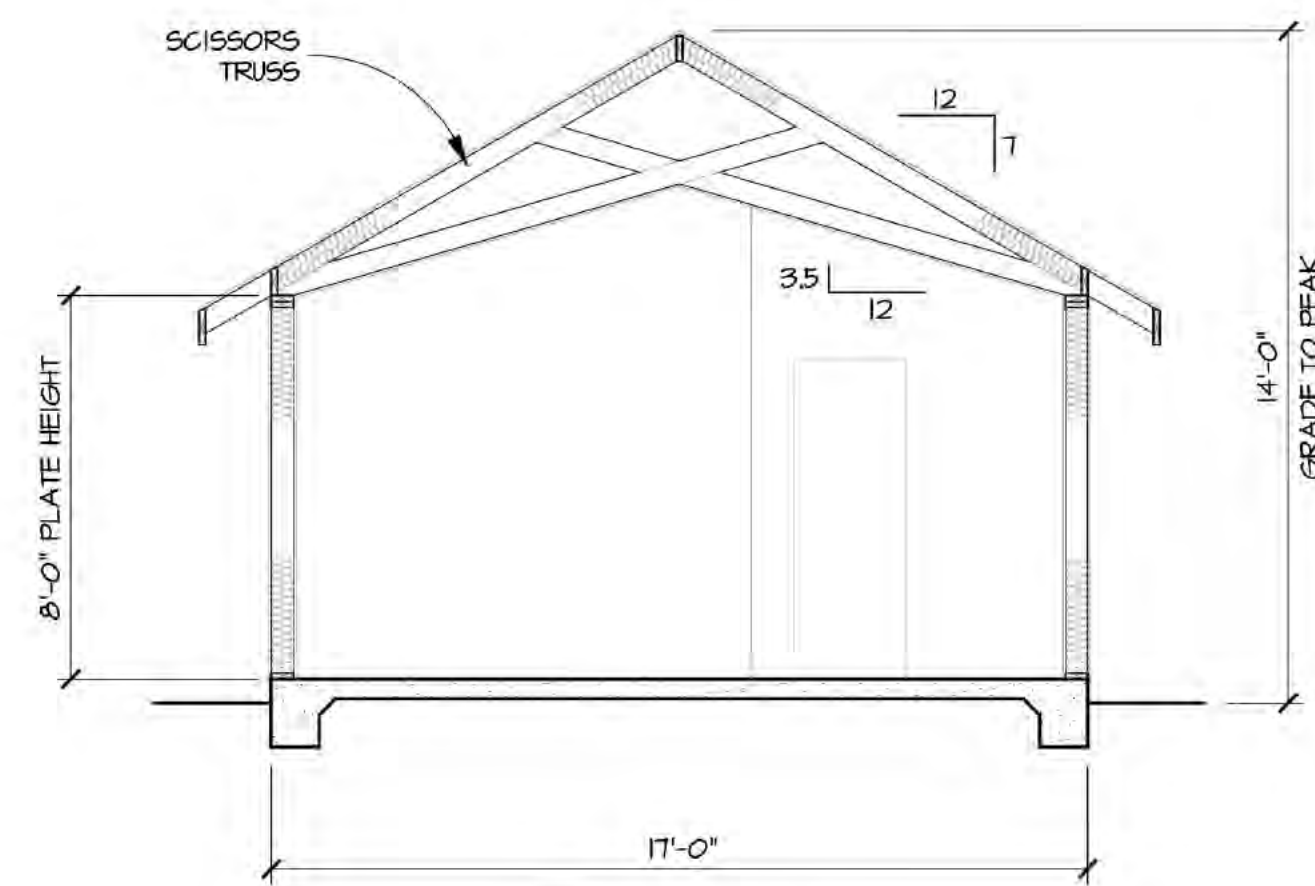
## SITE PLAN

C21-001401

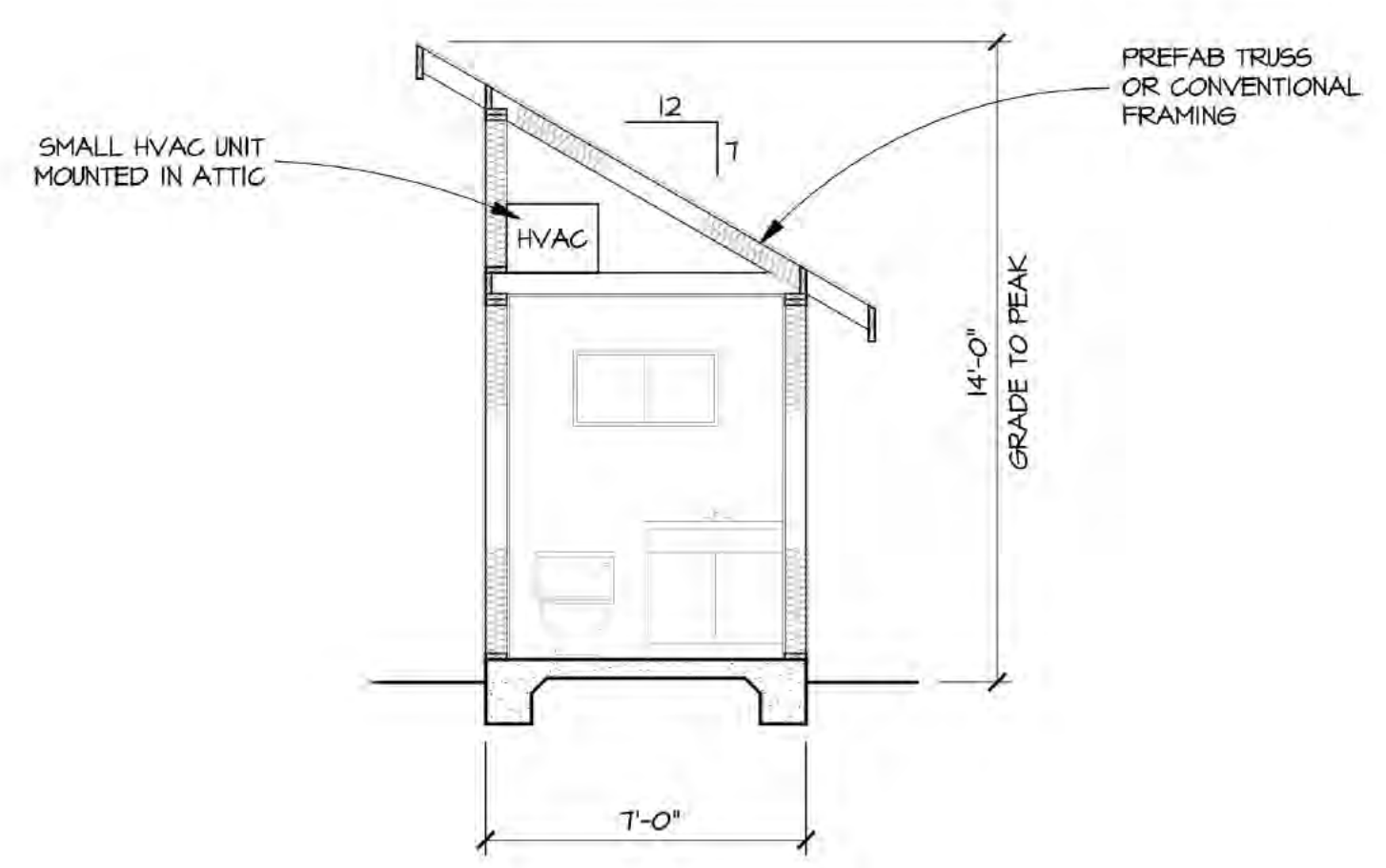
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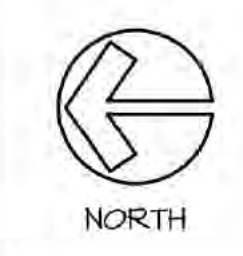
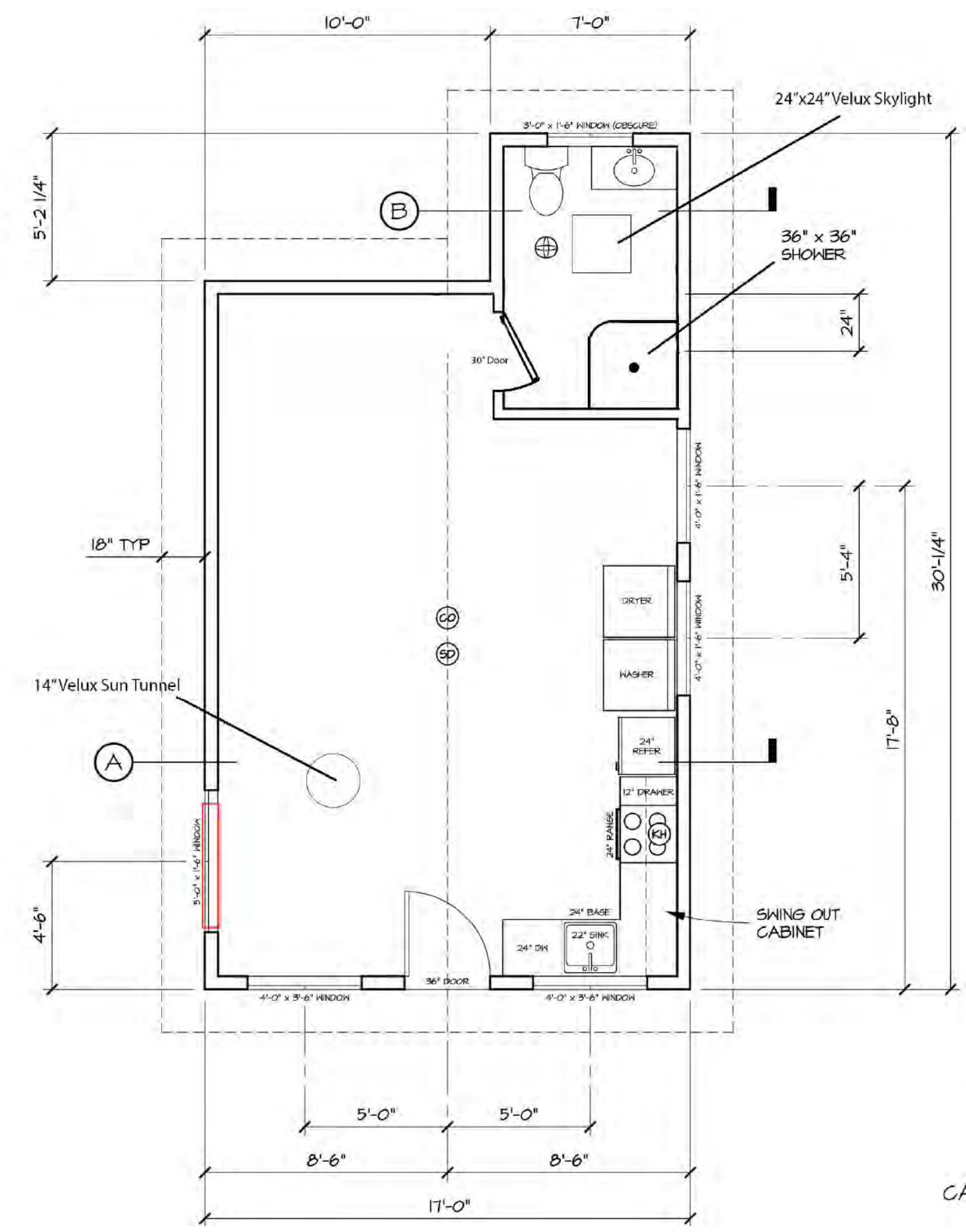
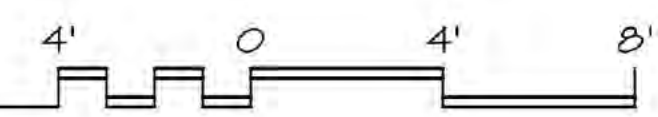
(A) LOOKING EAST



(B) LOOKING EAST

### SECTIONS

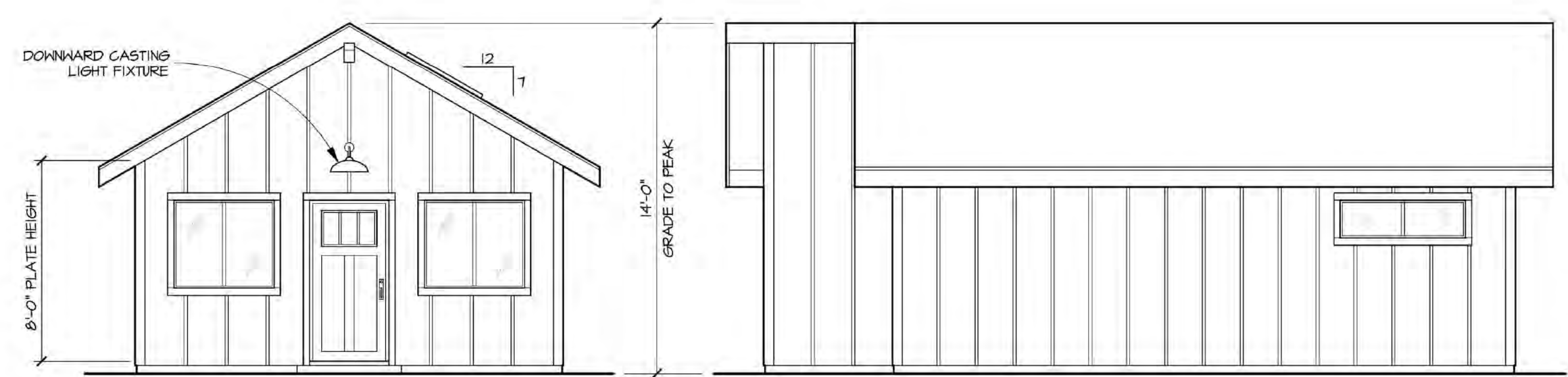
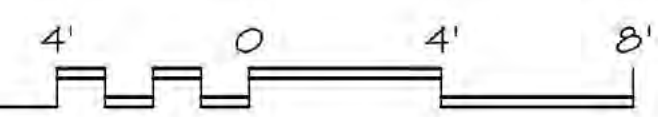
SCALE: 1/4" = 1'-0"



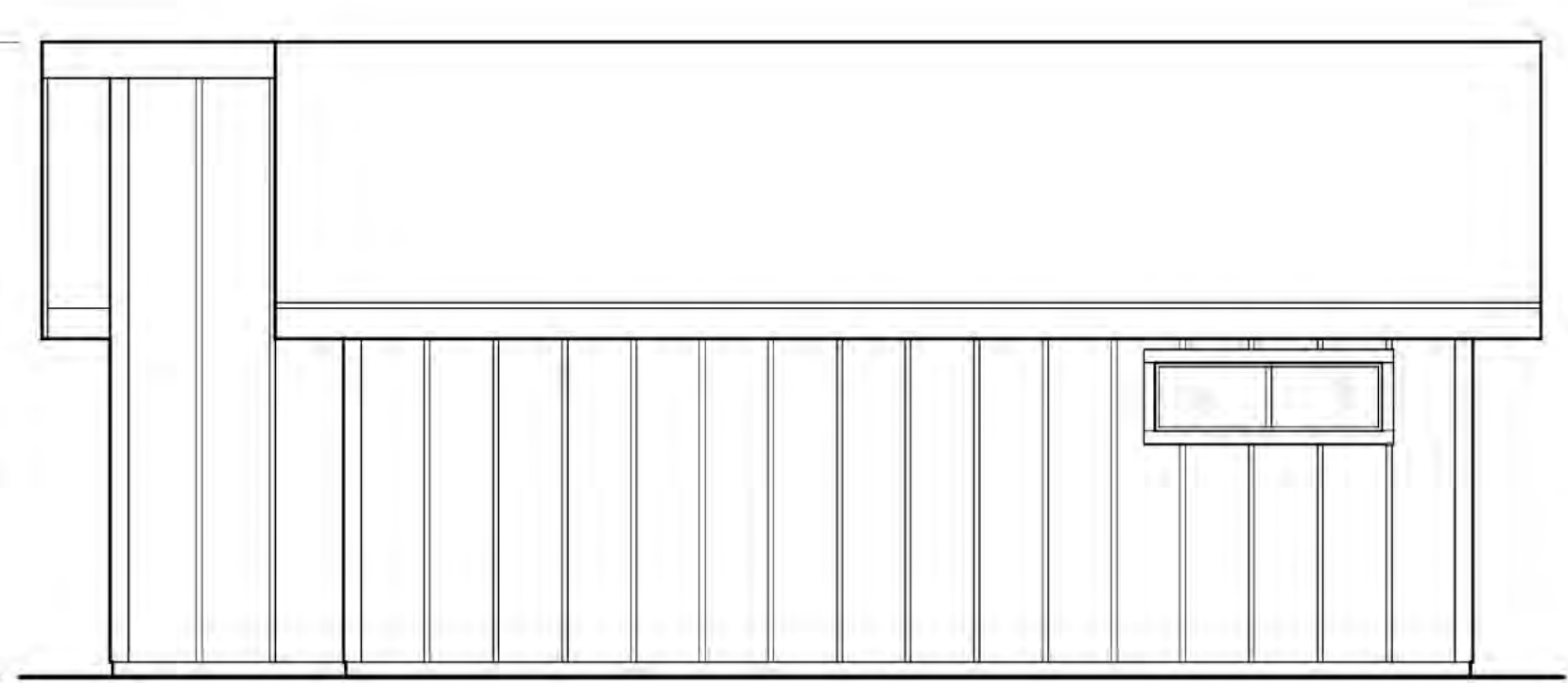
### FLOOR PLAN

NOTE: ALL WALL DIMENSIONS TO FACE OF STUD

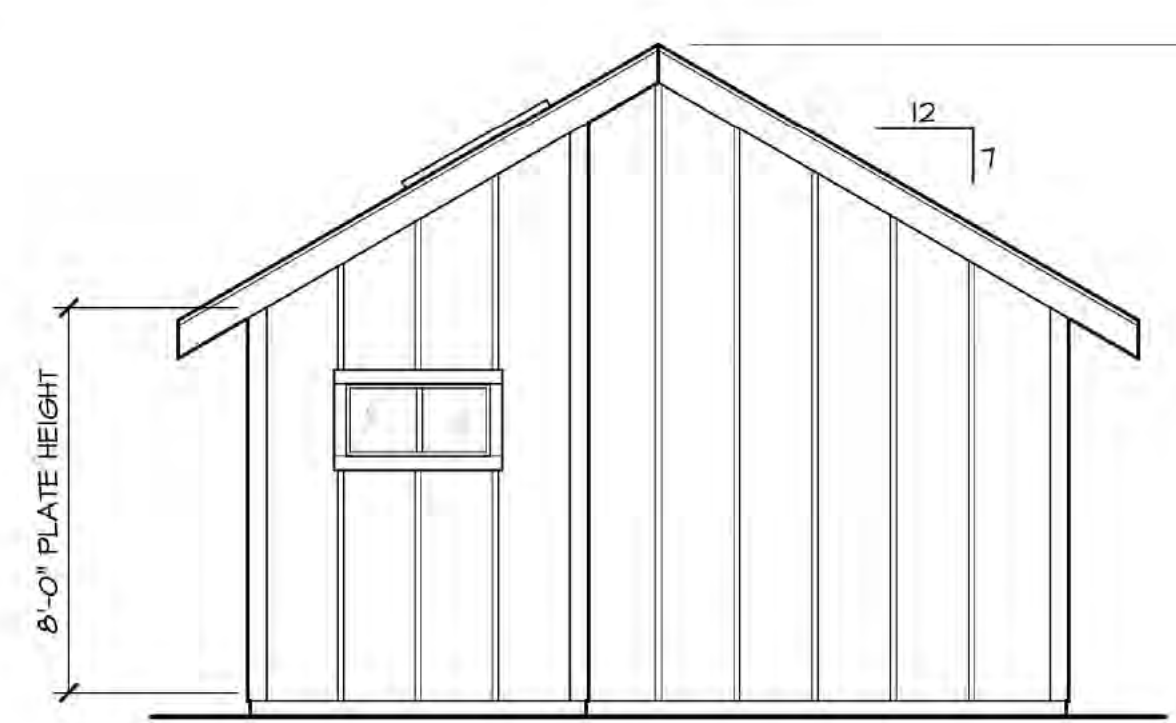
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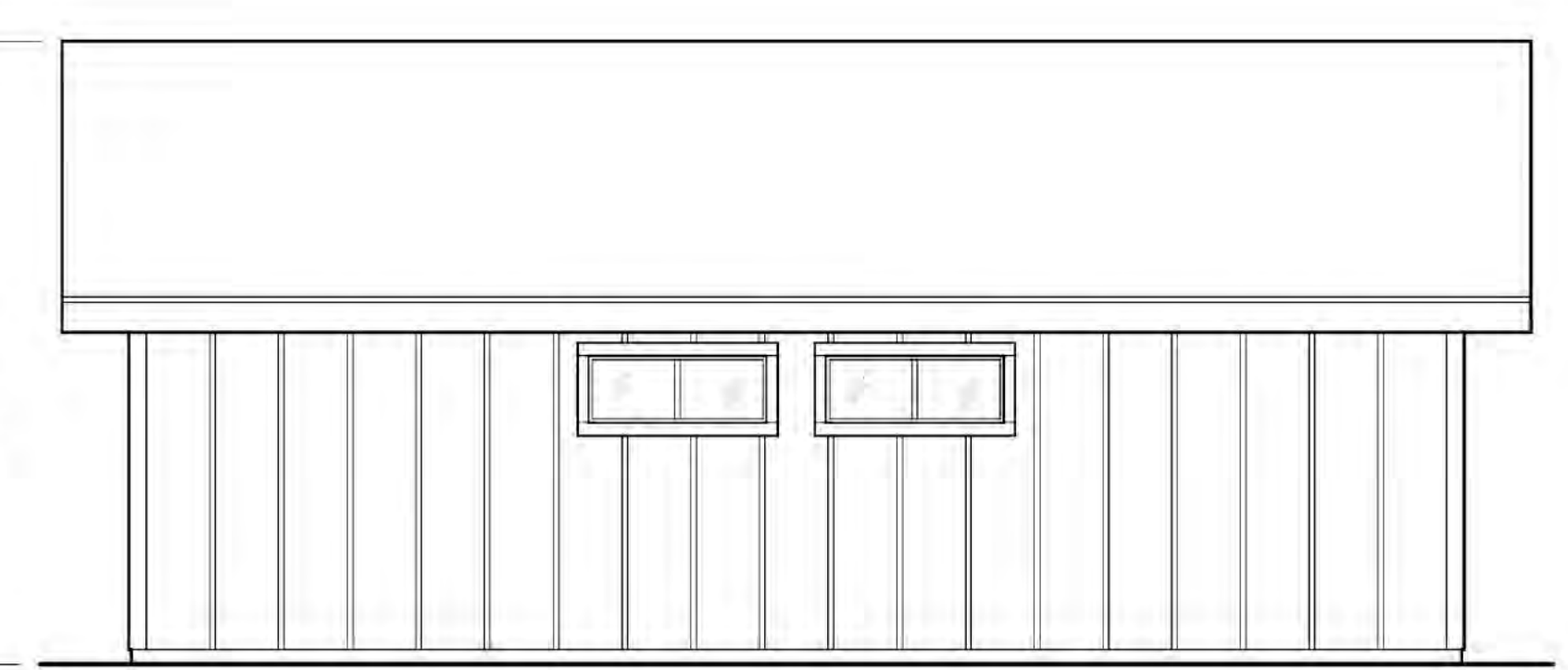
WEST ELEVATION  
LOOKING EAST



NORTH ELEVATION  
LOOKING SOUTH



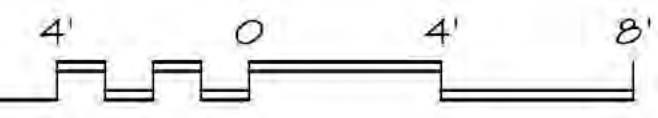
EAST ELEVATION  
LOOKING WEST



SOUTH ELEVATION  
LOOKING NORTH

### ELEVATIONS

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



Revisions		
No.	Description	Date

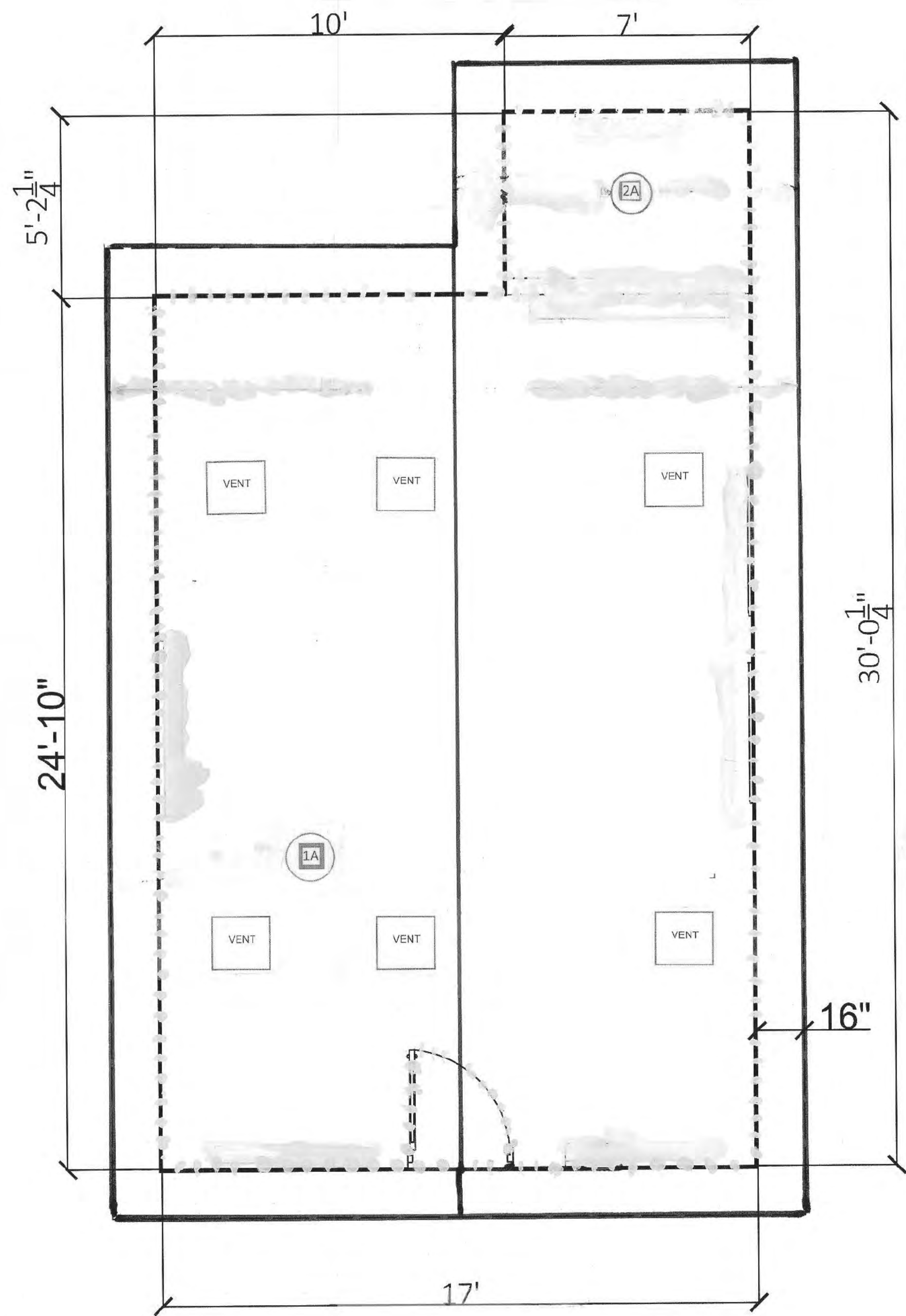
APN:  
017-0-144-090

FLOOR PLANS  
ELEVATIONS  
SECTIONS

PROPOSED CONSTRUCTION

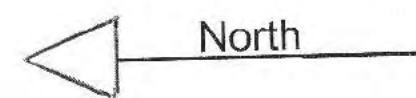
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DATE
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JOB NO. -
SHEET 3





Roof Plan

Scale: 3/8" = 1'-0"

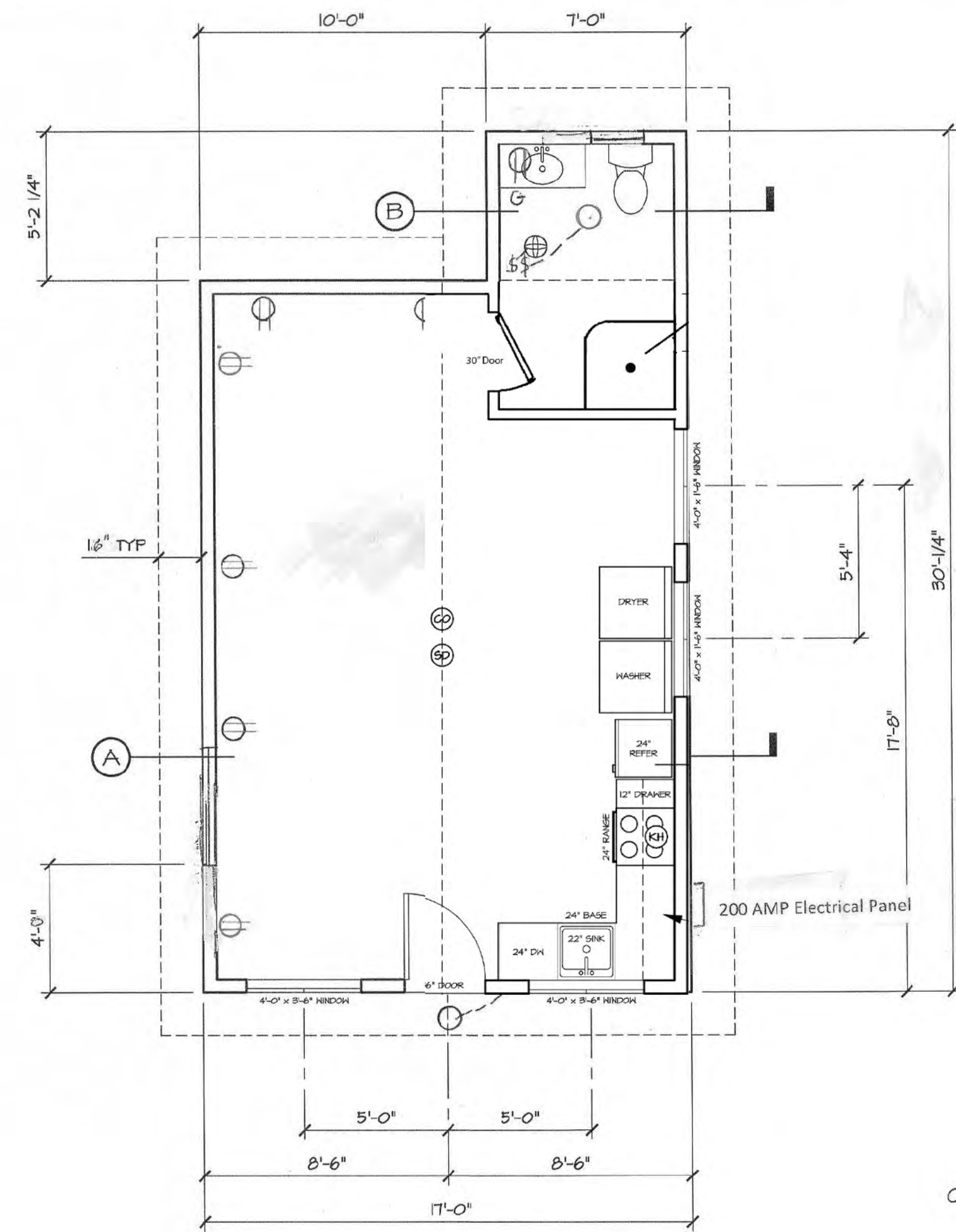


- GENERAL NOTES**
1. New Class A shingle roof
  2. O'Hagen Standard Roof Vents
  3. Gutters and downspouts provided

- Ventilation**
1. Mandatory minimum attic ventilation area is 1/300 of the area of the space ventilated for all enclosed rafter spaces. Class I or II vapor retarder is installed on the warm-in-winter side of the ceiling. At least 50% of the required ventilation must be a minimum of three feet above the eave.
  2. Provide cross ventilation for each space between rafter openings and have a minimum opening of 1/16" and max 1/4". Minimum of 1" air space shall be provide between the insulation and the roof sheathing.

LIGHT TUBE SCHEDULE

Mark	Size	
1A	14" Dia.	Velux Sun Tube
2A	10" Dia.	Velux Sun Tube



- ELECTRICAL GENERAL NOTES**
1. All receptacle to be A.F.I. unless specified as G.F.I.
  2. Provide bonding grounding electrode conductor per CEC Table 310.15.
  3. This plan is not for construction; it is for design purposes only. This is a preliminary layout.
  4. All 120v, 15 and 20 amp supplying outlets will be protected by a listed arc-fault circuit interrupter. Lighting circuits in bathroom will be arc fault protected as well.
  5. Outlets adjacent to sink to be G.F.I. protected
  6. Outlets will be tamper resistant.

- Duplex Outlet
- GFI Outlet
- Single Pole Switch
- Double Pole Switch
- Triple Pole Switch
- SMOKE DETECTOR
- CARBON MONOXIDE ALARM
- BATHROOM FAN



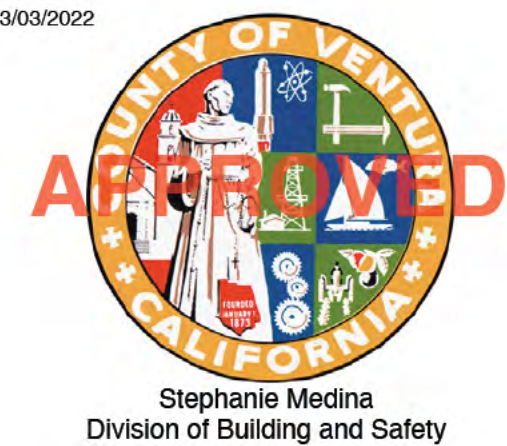
**ELECTRICAL PLAN** NOTE: ALL WALL DIMENSIONS TO FACE OF STUD

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



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03/03/2022



Revisions		
No.	Description	Date

APN:  
017-0-144-090



Roof Plan  
ELECTRICAL PLAN  
C21-001401

PROPOSED CONSTRUCTION



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JOB NO.

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4



ELEMENT/CONNECTI ON	FASTENER	LOCATION
1. Blocking between ceiling joists, rafters or trusses to top plate or other framing below	<b>ROOF</b> 3 - 8d common (2 1/2" x 0.131") 3-10d box (3"x0.128") 3 - 3" x 0.131" nails 3 - 3" 14 gage staples, 7/16" crown	Toenail each end
	Blocking between rafters or truss not at the wall top plate, to rafter or truss	toenail each end
	2-16d common (2 1/2" x 0.131") 2 - 3" x 0.131" nails 2 - 3" 14 gage staples	end nail
2. Ceiling joists to top plate	16d common (3 1/2"x0.162") @6" o.c. 3-3"x0.131" nails @ 6" o.c. 3-3" 14 gage staples @ 6" o.c.	Face nail
3. Ceiling joist not attached to parallel rafter, laps over partitions (no thrust) (Table and Section 2308.7.3.1)	3-8d common 3-10d box 4-3"x0.131" nails 3-3" 14 gage staples, 7/16" crown	Toenail each joist
4. Ceiling joists attached to parallel rafter (heel joint) (Table and Section 2308.7.3.1)	3-16d common 4-10d box 4-3"x0.131" nails 3-3" 14 gage staples, 7/16" crown	Face nail
5. Collar tie to rafter	3-10d common 4-10d box 4-3"x0.131" nails 4-3" 14 gage staples, 7/16" crown	Face nail
6. Rafter or roof truss to top plate (Table and section 2308.7.5)	3-10d common 3-16d box 4-10d box 4-3"x0.131" nails 4-3" 14 gage staples, 7/16" crown	Toenail <sup>(1)</sup>
7. Roof rafters to ridge valley or hip rafters; or roof rafter to 2" ridge beam	2-16d common 3-10d box 3-3"x0.131" nails 3-3" 14 gage staples, 7/16" crown	End nail
8. Stud to Stud (not at braced wall panels)	<b>WALL</b> 1-6d common 3"x0.131" nails 3" 14 gage staples, 7/16" crown	24" o.e. face nail
	1-16d box 3"x0.131" nails 3" 14 gage staples, 7/16" crown	16" o.e. face nail
	1-16d box 3"x0.131" nails 3" 14 gage staples, 7/16" crown	16" o.e. face nail
9. Stud to stud and abutting studs at intersecting wall corners (at braced wall panels)	1-16d common 1-16d box 3"x0.131" nails 3" 14 gage staples, 7/16" crown	16" o.e. face nail
10. Built-up header	1-16d common 1-16d box 3"x0.131" nails 3" 14 gage staples, 7/16" crown	16" o.e. face nail
11. Continuous header to stud	4-8d common 4-10d box 3"x0.131" nails 3" 14 gage staples, 7/16" crown	Toenail
12. Top plate to top plate	1-16d common 1-10d box 3"x0.131" nails 3" 14 gage staples, 7/16" crown	16" o.e. face nail
13. Top plate to top plate, at end joints	8-16d common 12-10d box 12-3"x0.131" nails 12-3" 14 gage staples, 7/16" crown	Each side of end joint, face nail (min 24" lap splice length each side of end joint)
14. Bottom plate to joist, rim joist, band joist or blocking (not at braced wall panels)	1-16d common 1-16d box 3"x0.131" nails 3" 14 gage staples, 7/16" crown	16" o.e. face nail
15. Bottom plate to joist, rim joist, band joist or blocking at braced wall panels	1-16d common 3-16d box 4-3"x0.131" nails 4-3" 14 gage staples, 7/16" crown	16" o.e. face nail
16. Stud to top or bottom plate	4-8d common 4-10d box 4-3"x0.131" nails 4-3" 14 gage staples, 7/16" crown	Toenail
	2-16d common 3-10d box 3-3"x0.131" nails 3-3" 14 gage staples, 7/16" crown	End nail

ELEMENT/CONNECTI ON	FASTENER	LOCATION
17. Top or bottom plate to stud	2-16d common 3-10d box 3-3"x0.131" nails 3-3" 14 gage staples, 7/16" crown	End nail
18. Top plates, laps at corners and intersections	2-16d common 2-10d box 3-3"x0.131" nails 3-3" 14 gage staples, 7/16" crown	Face nail
19. 1" brace to each stud and plate	2-8d common 2-10d box 2-3"x0.131" nails 2-3" 14 gage staples, 7/16" crown	Face nail
20. 1"x6" sheathing to each bearing	2-8d common 2-10d box 3-8d common 3-10d box	Face nail
21. 1"x8" and wider sheathing to each bearing	2-8d common 2-10d box 3-10d box	Face nail
22. Joist to sill, top plate, or girder	<b>FLOOR</b> 3-8d common 3-10d box 3-3"x0.131" nails 3-3" 14 gage staples, 7/16" crown	Toenail
	8d common 10d box 3"x0.131" nails 3" 14 gage staples, 7/16" crown	6" o.e., toenail
	2-8d common 2-10d box 2-16d common	Face nail
23. Rim joist, band joist, or blocking to top plate, sill or other framing below	2-8d common 2-10d box 2-16d common	Face nail
24. 1"x6" subfloor or less to each joist	2-8d common 2-10d box 2-16d common	Face nail
25. 2" subfloor to joist or girder	2-16d common	Face nail
26. 2" plank	2-16d common 2-10d common	Each bearing, face nail
27. Built up girders and beams, 2" lumber layers	2-16d common 2-10d box 2-3"x0.131" nails 2-3" 14 gage staples, 7/16" crown	32" o.e. face nail at top and bottom staggered on opposite sides
28. Ledger strip supporting joists or rafters	10d box 3"x0.131" nails 3" 14 gage staples, 7/16" crown	24" o.e. face nail at top and bottom staggered on opposite sides
29. Joist to band joist or rim joist	And 2-20d common 2-10d box 2-3"x0.131" nails 2-3" 14 gage staples, 7/16" crown	Ends and at each splice, face nail
30. Bridging or blocking to joist, rafter or truss	2-16d common 2-10d box 2-3"x0.131" nails 2-3" 14 gage staples, 7/16" crown	Each joist or rafter, face nail
<b>WOOD STRUCTURAL PANS, SUB FLOOR, ROOF AND INTERIOR WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING <sup>(5)</sup></b>		
31. 3/8"-1/2"	6d common or deformed (2"x0.113") (subfloor and wall) 8d box or deformed (roof) 2-3"x0.113" nail (subfloor and wall) 1 1/2" 16 gage staple, 7/16" crown 2-3"x0.113" nail (roof) 1 1/2" 16 gage staple, 7/16" crown (roof)	6" edge 12" intermediate supports 4" edge 8" intermediate supports 3" edge 6" intermediate supports
32. 19/32" - 3/4"	8d common 6d deformed 2-3"x0.113" nail 2" 16" gage staple, 7/16" crown	6" edge 12" intermediate supports 4" edge 8" intermediate supports
33. 7/8" - 1/4"	10d common 8d deformed	6" edge 12" intermediate supports
<b>OTHER EXTERIOR WALL SHEATHING</b>		
34. 1/2" fiberboard sheathing <sup>(1)</sup>	1 1/2" galvanized roof nail 1 1/2" 16 gage staple with 7/16" or 1" crown	3" edge 6" intermediate supports
35. 23/32" fiberboard sheathing <sup>(1)</sup>	1 1/2" galvanized roof nail 1 1/2" 16 gage staple with 7/16" or 1" crown	3" edge 6" intermediate supports
<b>WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING</b>		
36. 1/2" and less	8d common 8d deformed	6" edge 12" intermediate supports
37. 7/8"-1"	8d common 8d deformed	6" edge 12" intermediate supports
38. 1 1/8"-1 1/2"	10d common 8d deformed	6" edge 12" intermediate supports
<b>PANEL SIDING TO FRAMING</b>		
39. 1/2" or less	6d corrosion-resistant siding 6d corrosion-resistant casing	6" edge 12" intermediate supports
40. 5/8"	8d corrosion-resistant siding 8d corrosion-resistant casing	6" edge 12" intermediate supports
<b>INTERIOR PANELING</b>		
41. 1/2"	4d casing 4d finish	6" edge 12" intermediate supports
42. 3/8"	6d casing 6d finish	6" edge 12" intermediate supports

For SE: 1 inch = 25.4 mm.  
a. Nails spaced at 6 inches at intermediate supports where spans are 48" or more. For nailing of wood structural panel and particleboard diaphragms and shear walls, refer to Section 2305. Nails for wall sheathing are permitted to be common, box or casing.  
b. Spacing shall be 6 inches on center on the edges and 12 inches on center at intermediate supports for nonstructural applications. Panel supports at 16 inches (20 inches if strength axis in the long direction of the panel, unless otherwise marked).  
c. Where a rafter is fastened to an adjacent parallel ceiling joist in accordance with this schedule and the ceiling joist is fastened to the top plate in accordance with this schedule, the number of toenails in the rafters shall be permitted to be reduced by one nail.  
\*\* See Table 2304.10.1 for more information

FASTENERS USED IN PRESSURE TREATED LUMBER MUST BE APPROVED FOR USE WITH THE SPECIFIC TYPE OF PRESSURE TREATED LUMBER IN PLACE.

#### NOTES TO THE GENERAL CONTRACTOR/OWNER.

- THE STRUCTURAL OBSERVATIONS ARE ADVISORY ONLY AND DO NOT BIND THE DEPARTMENT OR CERTIFY THAT THE WORK WILL PASS THE APPROPRIATE DEPARTMENT INSPECTION(S).
- STRUCTURAL OBSERVATION DOES NOT CERTIFY, GUARANTEE OR ENSURE CONFORMANCE WITH THE APPROVED PLANS. IT DOES NOT PROVIDE THE QUALITY ASSURANCE OF CONTINUOUS INSPECTION. IT DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR PROGRESS, CALLED OR CONTINUOUS INSPECTIONS BY THE BUILDING INSPECTOR OR DEPUTY INSPECTOR. HOWEVER, STRUCTURAL OBSERVATION DOES PROVIDE ADDITIONAL REVIEW OF THE FIELD CONSTRUCTION TO SUBSTANTIALLY INCREASE THE LIKELIHOOD THAT THE STRUCTURAL SYSTEM WILL BE IN GENERAL CONFORMANCE WITH THE APPROVED
- GENERAL NOTES
- ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE DRAWINGS AND SPECIFICATIONS AS WELL AS CBC 2019 AND ALL APPLICABLE CODES.
- 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.
- 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.
- ALL DETAILS DESIGNATED AS STANDARD OR TYPICAL SHALL OCCUR IN ADDITION TO ANY OTHER SPECIFIC DETAIL CALLED OUT.
- 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.
- AFTER COMMENCEMENT OF WORK, ANY DELAYS, PROBLEMS OR FAULTS IN CONSTRUCTION DUE IN FULL OR PART TO ERRORS OR OMISSIONS IN THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE PERSON RESPONSIBLE FOR PREPARING THE CONSTRUCTION DOCUMENTS. THE LIABILITY FOR ERRORS AND OMISSIONS IN THE CONSTRUCTION DOCUMENTS SHALL NOT EXCEED ANY FEES PAID TO THE PERSON RESPONSIBLE FOR PREPARING THE CONSTRUCTION DOCUMENTS.

#### MANUFACTURED LUMBER

- TJI & TJI: ALL PLYWOOD WEB AND OPEN WEB JOISTS SPECIFIED ARE MANUFACTURED BY THE WEYERHAUSER CORP., ICC-ES ESR #1387, #1153.
- MICROLLAM LVL: ALL MICROLLAMS SPECIFIED ARE MANUFACTURED BY THE WEYERHAUSER CORPORATION, ICC-ES ESR #1387.
- PARALLAM PSL: ALL PARALLAMS SPECIFIED ARE MANUFACTURED BY THE TRUS JOIST MACMILLAN CORPORATION, ICC-ES ESR #1387.
- TIMBERSTRAND LSL: ALL TIMBERSTRAND MEMBERS SPECIFIED ARE MANUFACTURED BY THE TRUS JOIST MACMILLAN CORPORATION, ICC-ES ESR #1387.
- 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.
- TJI & TJI CROSS BRIDGING AND/OR BRACING SHALL BE PROVIDED AND DETAILED AS REQUIRED TO ADEQUATELY BRACE ALL JOISTS. BRIDGING SHOULD BE INSTALLED AS ERECTION PROCEEDS, AND TEMPORARY BRACING INSTALLED TO MAINTAIN ALIGNMENT AND PREVENT LATERAL MOVEMENT.
- TJI & TJI TEMPORARILY REMOVING WEB MEMBERS AND DRILLING OR CUTTING CHORDS ARE NOT PERMITTED.
- SHEATHING SHALL BE SECURELY FASTENED TO THE TOP CHORD. THE NAILING PATTERN SHALL BE STAGGERED TO AVOID SPLITTING AND TO ASSURE NAILING INTO EACH CHORD MEMBER.
- COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATION AND WEIGHT OF MECHANICAL UNITS AND DESIGN MEMBERS ACCORDINGLY.

#### Structural Design Criteria-166 N. Encinal Ave.

CBC 2019, ASCE 7-16

Allowable Soil Bearing Pressure=1500 psf per County of Ventura Soils Waiver

Roof Live Load = 20 psf

Dead Load = 12 psf

#### Wind Design

Ultimate Wind Design Speed= 93 mph, Nominal Wind Design Speed= 85 mph  
Risk Category II

Wind Exposure = C

Design Wind Pressure Coefficient

Windward Walls = 13.8 psf	
Leeward Walls = 9.7 psf	
Windward Roof = 9.7 psf	
Leeward Roof = 11.04 psf	

Internal Pressure Coefficient= GCpi=+0.18,-0.18

#### Seismic Design

Equivalent Lateral Force Procedure

Seismic Importance Factor I = 1.0

Risk Category = II

Seismic parameters per USGS website

Site Class = D default

Seismic Design Category = D

Sms = 2.24 g Sm1= g Ss=1.867 g S1= .707 g Sds=1.494 g Sd1=.822 g

Fa = 1.2 Fv= null

Basic shear force resisting system- light frame shear panels R=6.5

Cs=Sds/(R/I)= .230 W

#### FRAMING LUMBER

- ALL STRUCTURAL LUMBER SHALL BE DOUGLAS FIR OF THE FOLLOWING GRADES, CONFORMING TO STANDARD GRADING RULES FOR WEST COAST LUMBER, NO. 16, UNLESS NOTED OTHERWISE:  
RAFTERS, JOISTS, PLATES NO. 2  
2x BEAMS, STRINGERS, AND HEADERS NO. 2  
4x,6x AND 8x BEAMS, STRINGERS, AND HEADERS NO. 1  
POSTS AND TIMBERS NO. 1  
STUDS CONSTRUCTION GRADE  
BLOCKING, AND STRIPPING CONSTRUCTION GRADE.
- 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 1-09. EACH SHEET OF PLYWOOD SHALL BE IDENTIFIED BY A REGISTERED STAMP OR BRAND OF THE DOUGLAS FIR PLYWOOD ASSOCIATION.
- ALL WOOD BEARING ON CONCRETE SHALL BE BORATE PRESSURE TREATED DOUGLAS FIR.
- 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.
- PROVIDE 2x SLOD BLOCKING BETWEEN JOISTS AND RAFTERS AT ALL SUPPORTS. BLOCKING SHALL BE ONE PIECE AND BE THE FULL DEPTH OF THE JOIST OR RAFTER.
- CROSS BRIDGING SHALL BE PROVIDED AT 8'-0" ON CENTER MAXIMUM FOR ALL JOISTS AND RAFTERS MORE THAN 8" DEEP.
- PROVIDE DOUBLE JOISTS UNDER PARTITIONS WHICH ARE PARALLEL TO THE JOISTS.
- PROVIDE SOLID, FULL BLOCKING UNDER PARTITIONS WHICH ARE PERPENDICULAR TO THE JOISTS.
- 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.
- ALL NAILS SHALL BE COMMON, BOX OR SINKER. NAILING SHALL BE PER SPECIFIED IN CALIFORNIA BUILDING CODE.
- BOLT HOLES IN WOOD SHALL BE 1/32" TO 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER. ALL BOLTS SHALL HAVE STANDARD CUT WASHER UNDER HEAD AND NUT UNLESS NOTED OTHERWISE.
- ALL BOLTS SHALL BE TIGHTENED PRIOR TO THE APPLICATION OF SHEATHING, PLASTER, ETC.
- STRUCTURAL MEMBERS SHALL NOT BE CUT FOR PIPES, ETC. UNLESS SPECIFICALLY DETAILED.
- WOOD STUDS MAY BE NOTCHED TO A DEPTH OF 25% OF THE WIDTH MAXIMUM, EXCEPT INTERIOR NONBEARING STUDS WHICH MAY BE 40% OF THE WIDTH MAXIMUM. STUDS MAY BE BORED OR NOTCHED TO 40% OF THE WIDTH MAXIMUM, EXCEPT INTERIOR NONBEARING STUDS AND DOUBLED BEARING STUDS (PROVIDED NO MORE THAN TWO 25% 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.

#### CONCRETE

- 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%.
- ULTIMATE COMPRESSIVE STRENGTHS AT 28 DAYS SHALL BE:  
2500 PSI CONTINUOUS FTGS  
2500 PSI SLAB ON GRADE  
2500 PSI RETAINING WALLS  
2500 PSI PAD FOOTINGS  
3000 PSI GRADE BEAMS
- CEMENT SHALL CONFORM TO ASTM C150, TYPE II.
- PLACEMENT OF CONCRETE SHALL CONFORM WITH THE REQUIREMENTS OF ACI 301.
- 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.
- KEYED CONSTRUCTION JOINTS SHALL BE USED IN ALL CASES. ALL LAITCHES SHALL BE REMOVED. ALL VERTICAL JOINTS SHALL BE THOROUGHLY WETTED AND SLUSHED WITH A COAT OF NEAT CEMENT IMMEDIATELY BEFORE PLACING NEW CONCRETE.
- 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.
- 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 1-1/2" 2"  
#6 BARS AND LARGER  
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH SOIL:  
SLABS, WALLS AND JOISTS:  
#11 BARS AND SMALLER 3/4" 1-1/2"  
#14 BARS AND LARGER  
BEAMS AND COLUMNS 1-1/2"
- PIPES OTHER THAN ELECTRICAL CONDUITS SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED.
- 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.

#### FOUNDATION NOTES

- SOILS REPORT NOT REQUIRED. FOUNDATION DESIGN BASED ON CBC 2019, TABLE 1806.2 PRESUMPTIVE LOAD BEARING VALUES
- ALLOWABLE SOIL BEARING PRESSURE = 1500 psf
- 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, THE A-B-C SLOT CUT PROCEDURES ARE TO BE USED.
- MINIMUM SLAB ON GRADE CONSTRUCTION UNLESS NOTED OTHERWISE ON THE PLANS SHALL BE 4 INCH CONCRETE REINFORCED WITH #4 @ 18" O.C. OVER 2 INCHES OF SAND OVER 10 MIL VISQUEEN MOISTURE BARRIER OVER 4 INCH THICK CALTRANS CLASS 2 BASE LAYER OVER COMPACTED SUBGRADE.

#### MASONRY AND STONE VENEERS

- THIS SECTION APPLIES TO VENEERS OF 5" THICKNESS MAXIMUM ACCORDING TO CBC 2019, CHAPTER 14.
- WHERE ANCHORED VENEER IS APPLIED MORE THAN 25 FEET ABOVE ADJACENT GROUND, IT SHALL BE SUPPORTED BY NONCOMBUSTIBLE, CORROSIVE-RESISTANT, STRUCTURAL FRAMING HAVING HORIZONTAL SUPPORTS SPACED A MAXIMUM OF 12 FEET O.C. VERTICALLY.
- NONCOMBUSTIBLE, NONCORROSIVE LINTELS AND NONCOMBUSTIBLE SUPPORTS SHALL BE PROVIDED OVER ALL OPENINGS WHERE THE VENEER IS NOT SET SPANNING.
- MASONRY SHALL BE ANCHORED DIRECTLY TO STRUCTURAL MASONRY, CONCRETE, OR STUDS ACCORDING TO THE FOLLOWING:  
A. ANCHOR TIES SHALL BE CORROSIVE RESISTANT 22 GA. X 1" WIDE STEEL STRAPS SPACED TO SUPPORT NOT MORE THAN 2 SQUARE FEET OF WALL WITH A MAXIMUM HORIZONTAL SPACING OF 16".  
B. ANCHOR TIES SHALL BE ATTACHED TO NO. 9 GAUGE WIRE HORIZONTAL JOINT REINFORCING.  
C. WOOD STUDS SHALL BE SPACED AT 16" MAXIMUM AND 2 LAYERS OF APPROVED PAPER SHALL FIRST BE APPLIED OVER THE SHEATHING OR WIRES BETWEEN STUDS. MORTAR SHALL BE SLUSHED INTO THE 1" SPACE BETWEEN FACING AND PAPER.

#### CONCRETE ANCHORS

- ALL EPOXY ANCHORS SPECIFIED ON THE PLANS SHALL BE BY ONE OF THE FOLLOWING MANUFACTURERS AND SHOULD BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS:  
SIMPSON STRONG-TIE "SET XP EPOXY" ADHESIVE ANCHOR
- CONTINUOUS SPECIAL INSPECTION BY A REGISTERED DEPUTY INSPECTOR ARE REQUIRED FOR ALL EPOXY ANCHOR INSTALLATIONS.
- POST INSTALLED MECHANICAL ANCHORS SHALL BE SIMPSON TITEN HD, ICC-ER-ES # 2713

#### REINFORCING STEEL

- ALL REINFORCING STEEL, DOWELS, AND TIES SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE. #3 BARS SHALL BE ASTM A615, GRADE 40.
- 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.
- ALL REINFORCING STEEL IN MASONRY SHALL BE LAPPED 40 BAR DIAMETERS OR TWO (2) FEET MINIMUM, UNLESS NOTED OTHERWISE.

#### STRUCTURAL STEEL

- HSS COLUMNS AND BEAMS - ASTM A500 GRADE B
- W BEAMS - ASTM A992 GRADE 50
- PLATES, ANGLE - ASTM A36
- BOLTS - ASTM A307
- ALL STEEL TO HAVE RUST INHIBITIVE PRIMER
- ALL WELDING TO COMPLY WITH AWS SPECIFICATIONS. WELDS MUST BE DONE IN A SHOP OF A LICENSED FABRICATOR.
- CONTINUOUS DEPUTY INSPECTION IS REQUIRED FOR ALL FIELD WELDS.

03/03/2022



Stephanie Medina  
Division of Building and Safety

This set of plans and specifications MUST be kept on the job at all times and it is unlawful to make any changes or alterations to these plans without written permission from the Building Inspection Dept., County of Ventura. The signing of this plan and specifications SHALL NOT be held to permit or to be an approval of the violation of any provisions of any County Ordinance or State Law.

Revisions		
No.	Description	Date

Laima B. Reeder, P.E.  
Structural Design and Consulting  
Civil Engineer, CE #59400  
805-985-1700 reader.lbr@gmail.com



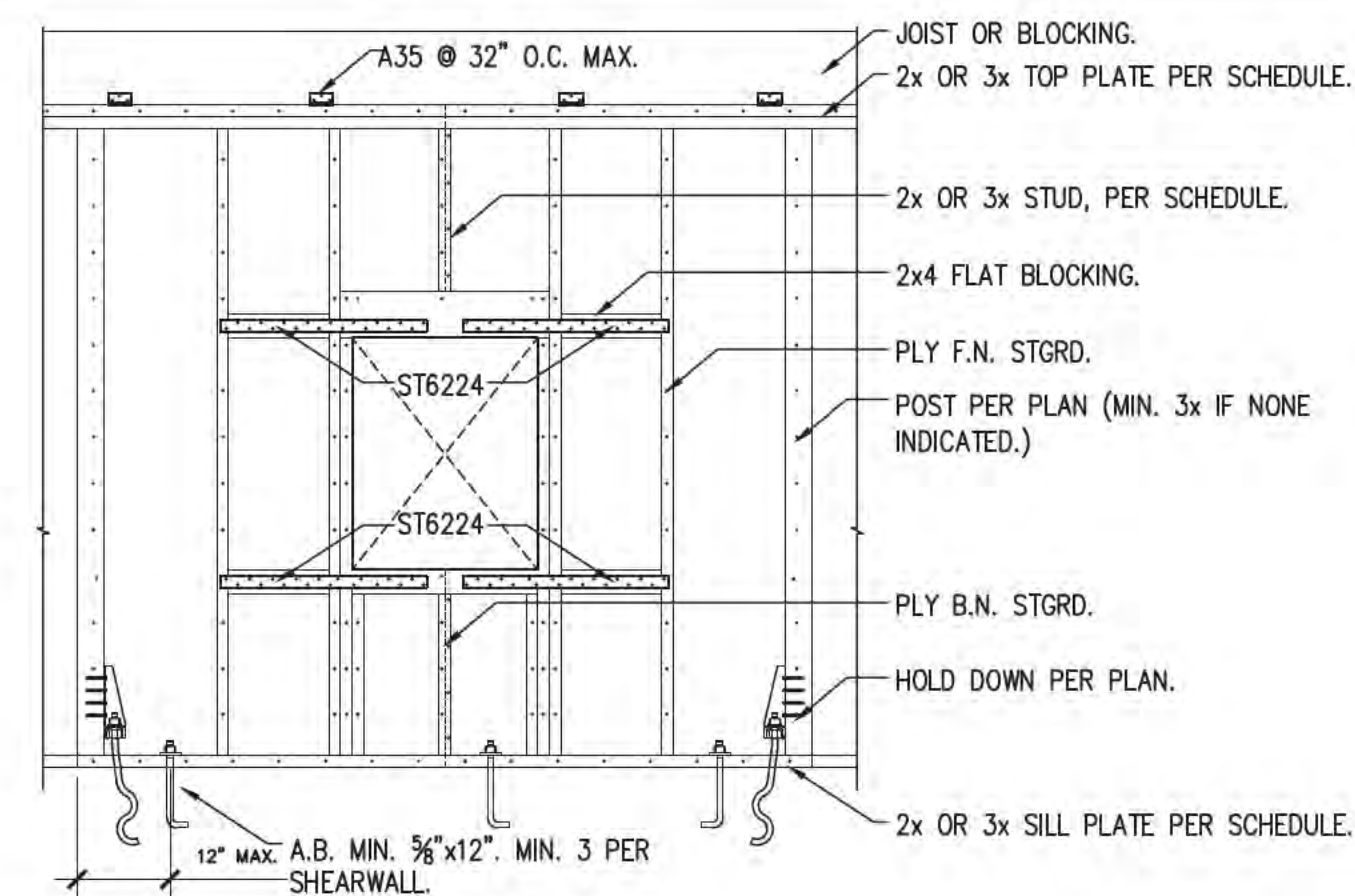
STANDARD  
STRUCTURAL  
DETAILS

PROPOSED CONSTRUCTION

DRAWN CMS
CHECKED
DATE 11-04-2021
SCALE AS NOTED
JOB NO. 21-19-20
SHEET

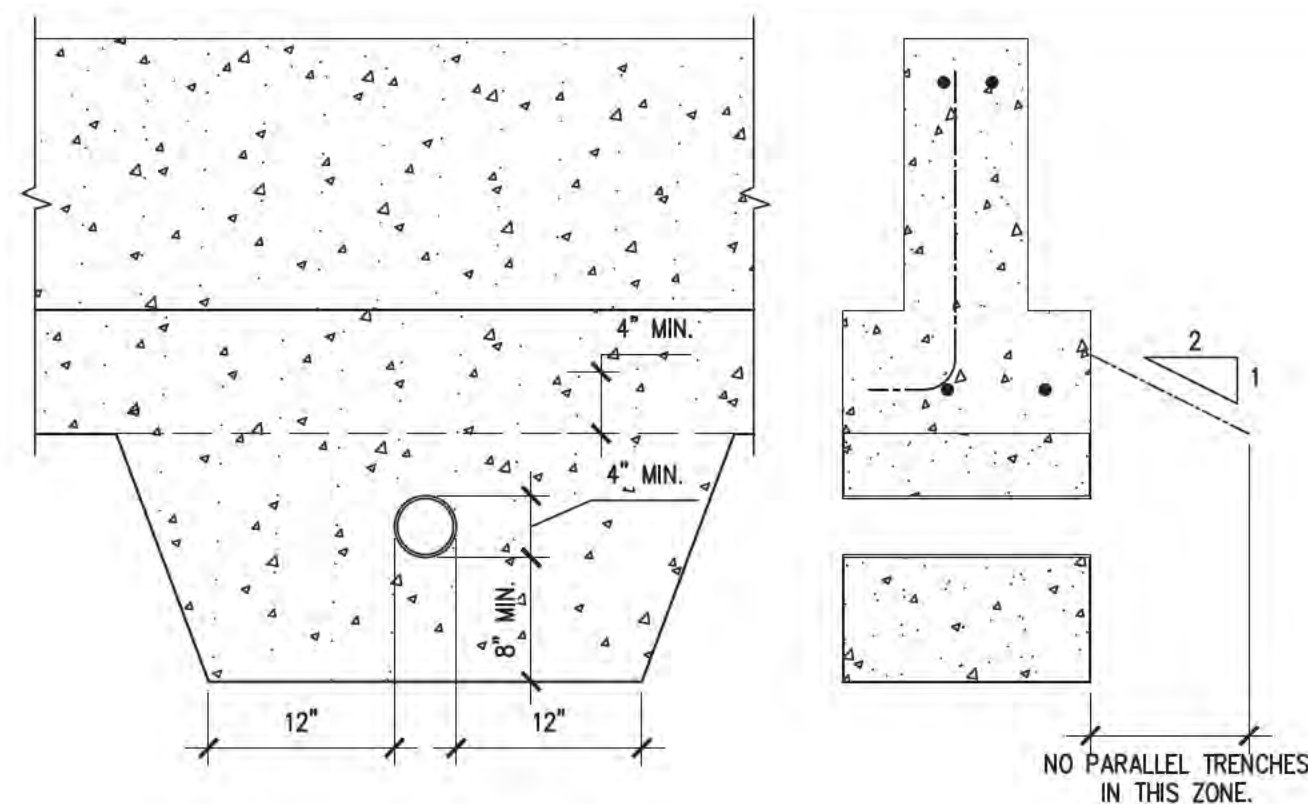
S0.1





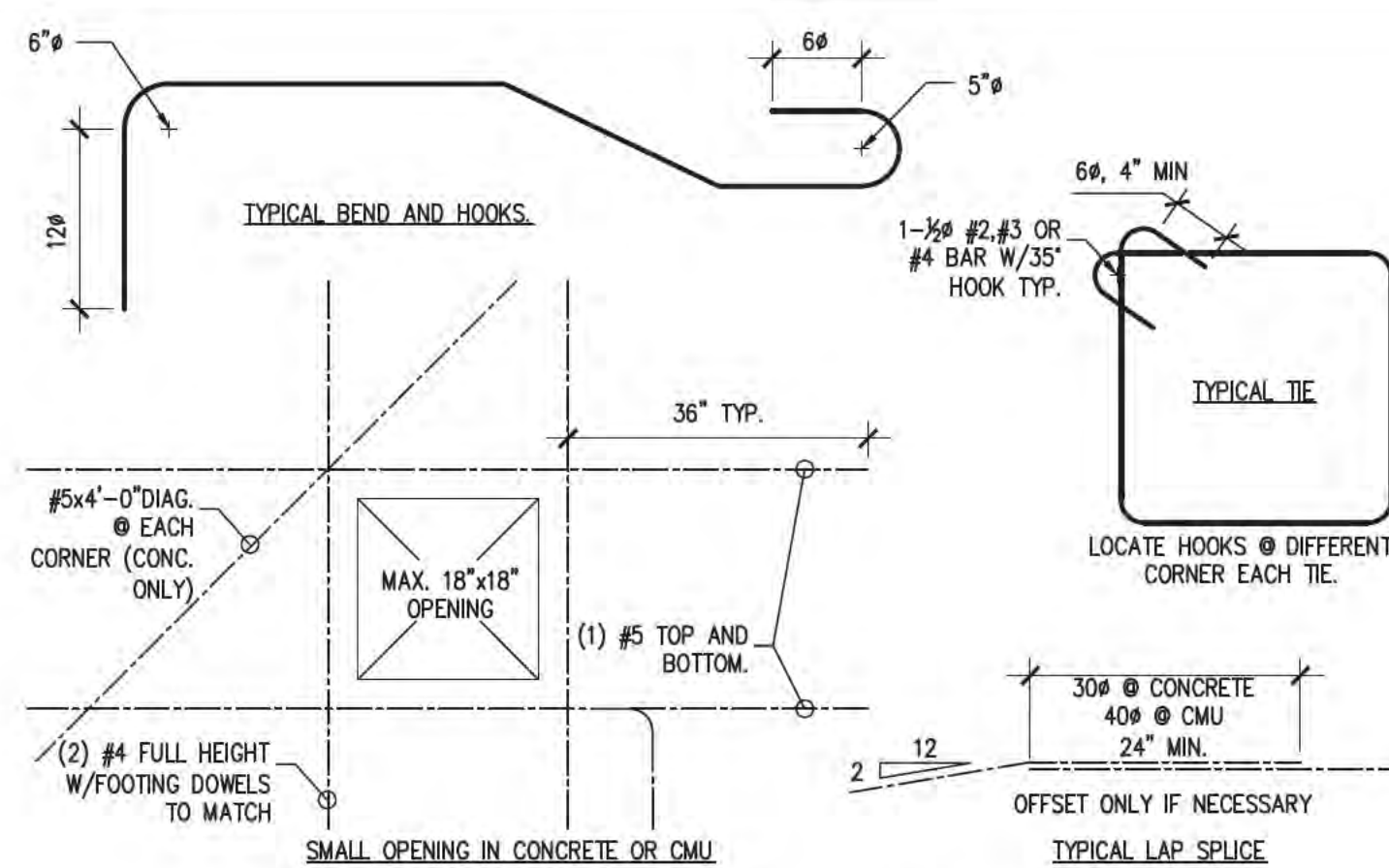
13 TYPICAL SHEARWALL

1/2"=1'-0"



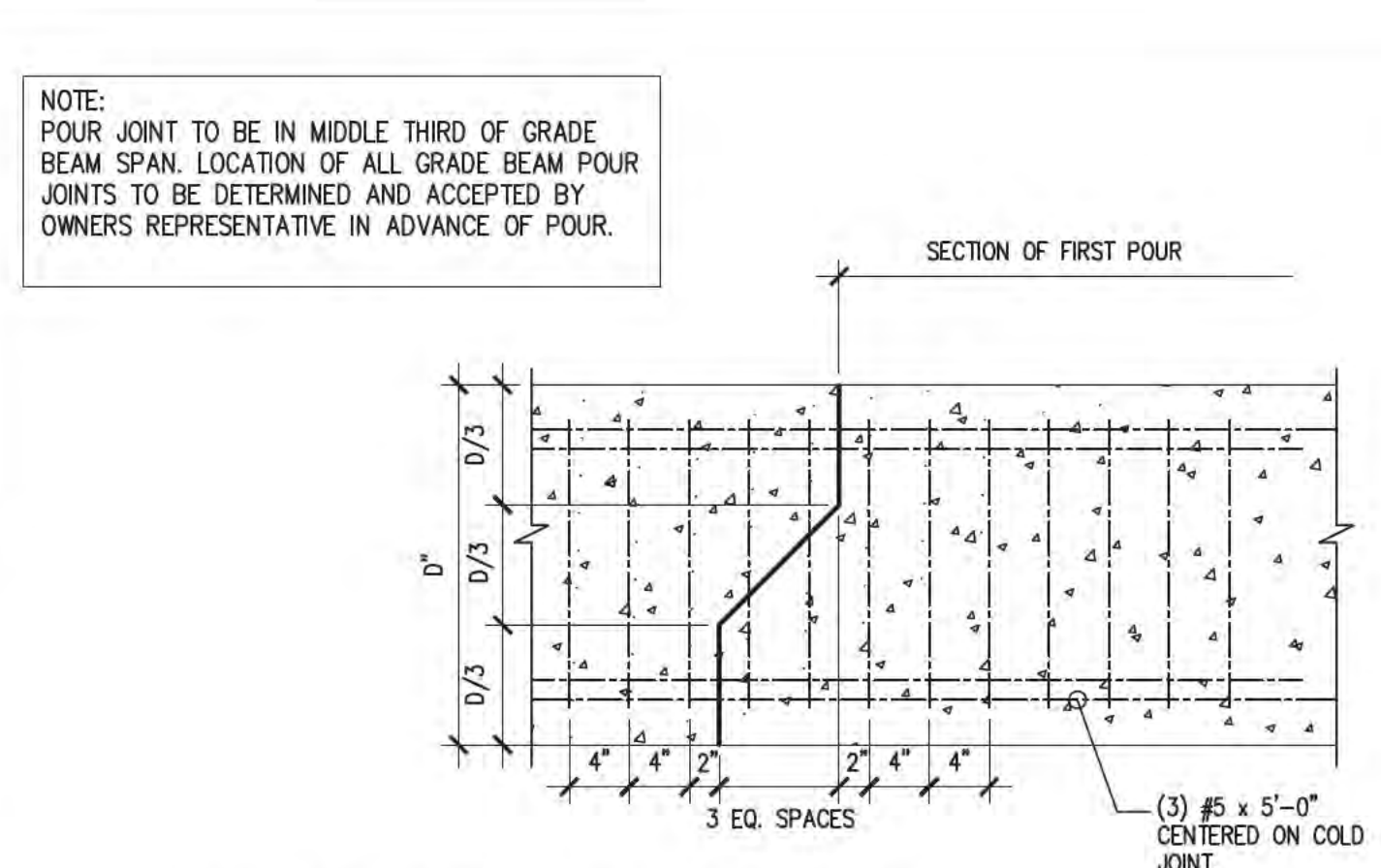
9 PIPE TRENCH AT FOOTING

1"=1'-0"



5 REINF. BENDS, LAPS & SPLICES

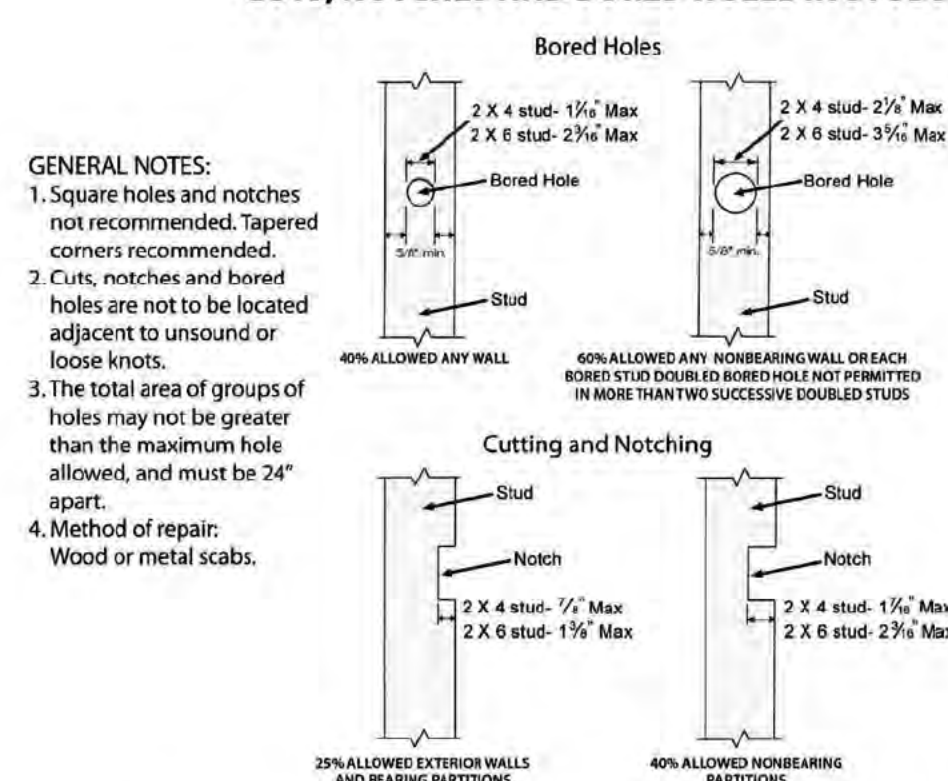
1"=1'-0"



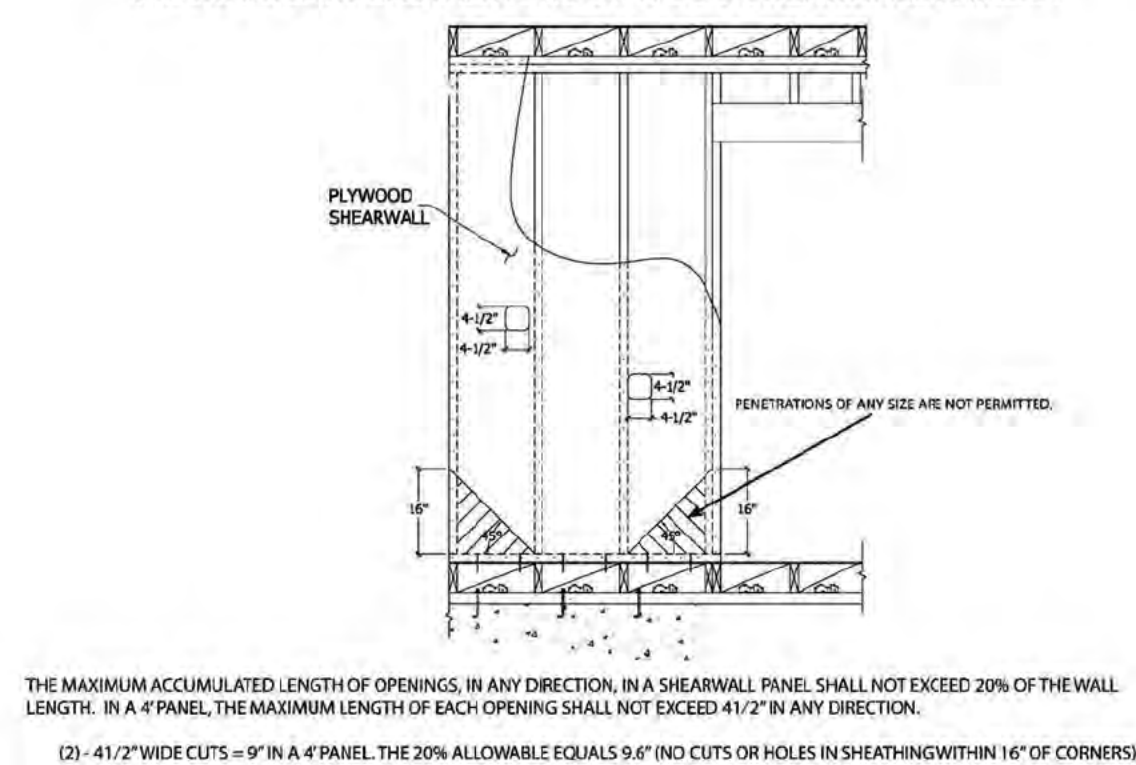
1 GRADE BEAM POUR JOINT

1"=1'-0"

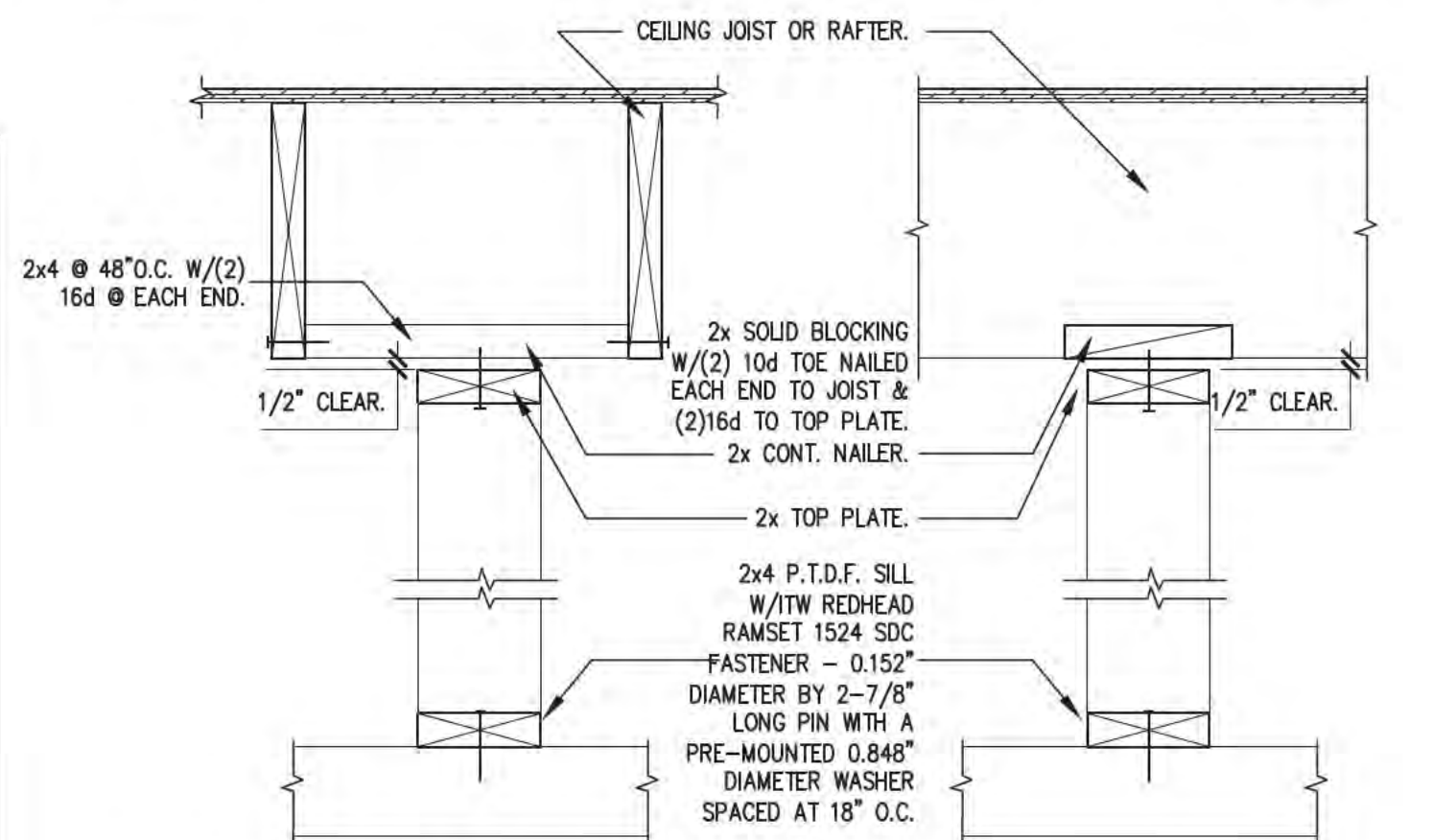
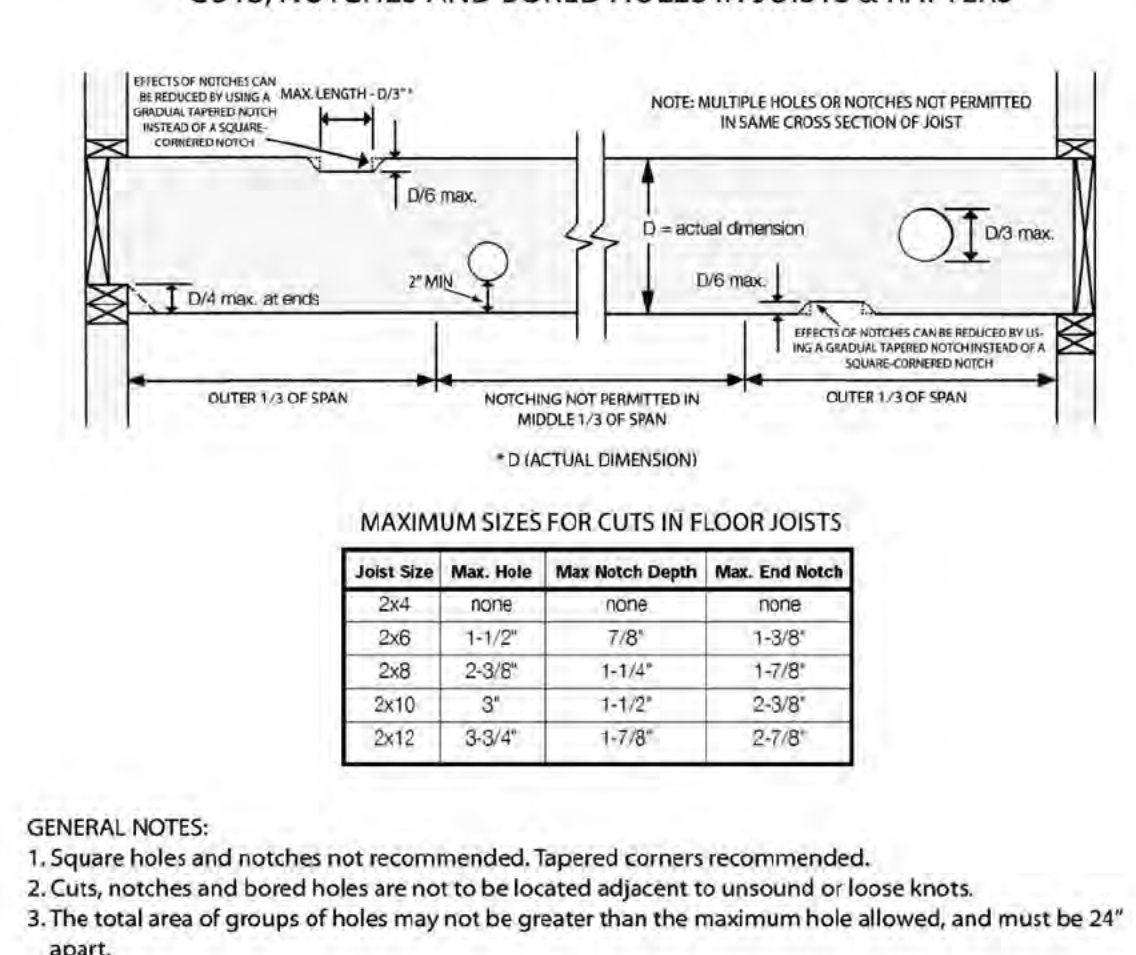
### CUTS, NOTCHES AND BORED HOLES IN STUDS



### MECHANICAL PENETRATIONS OF WOOD SHEARWALL PANELS:

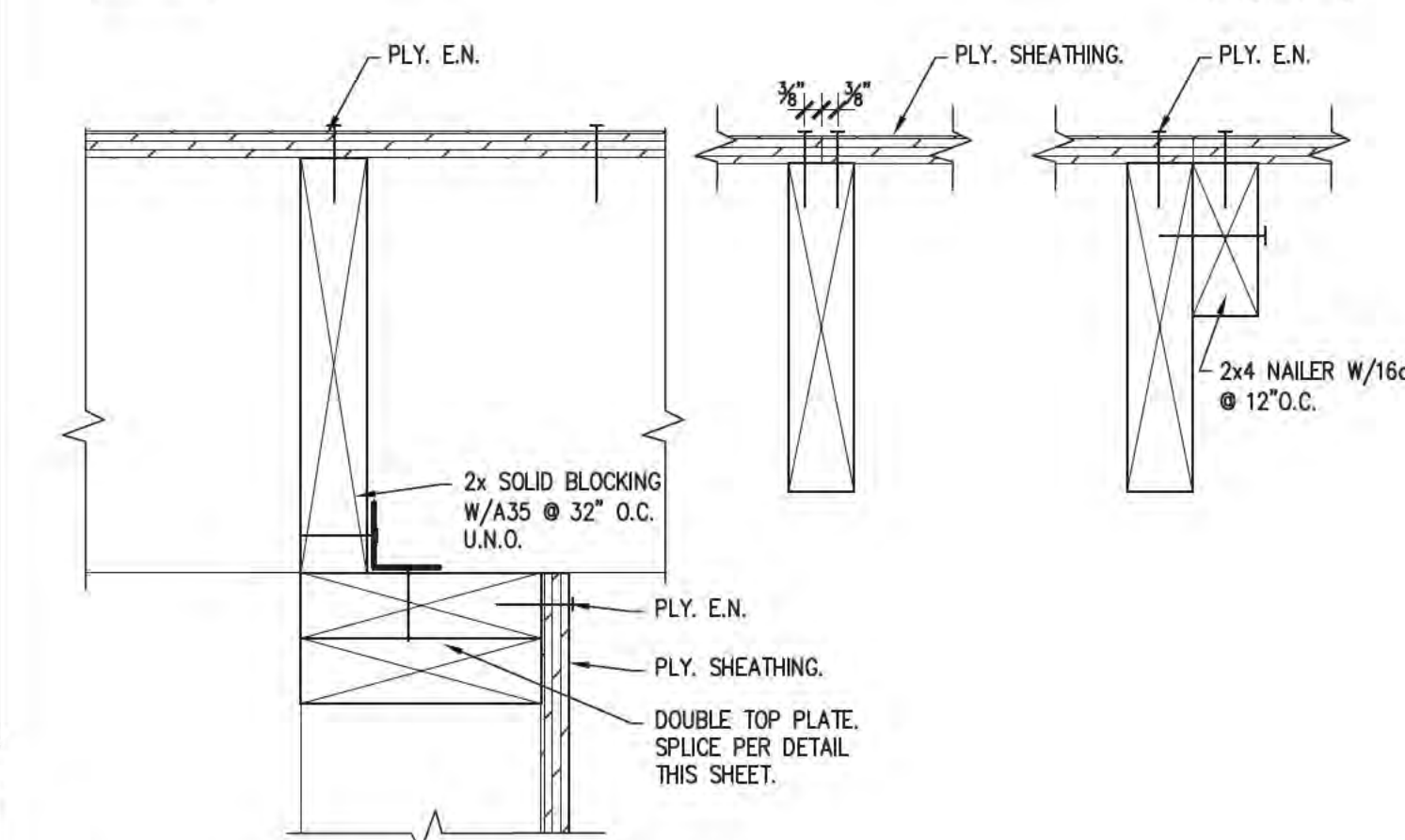


### CUTS, NOTCHES AND BORED HOLES IN JOISTS & RAFTERS



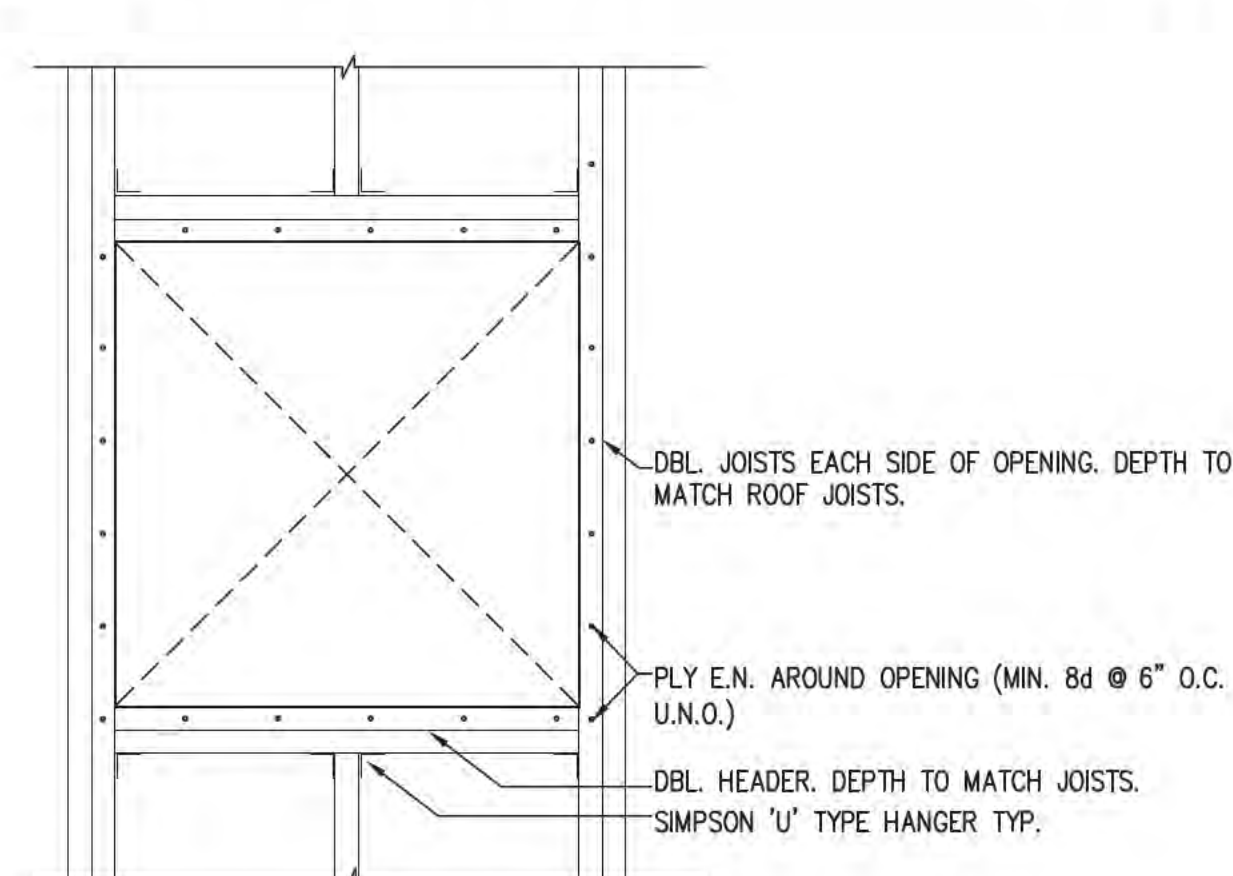
10 NON-BEARING PARTITION

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



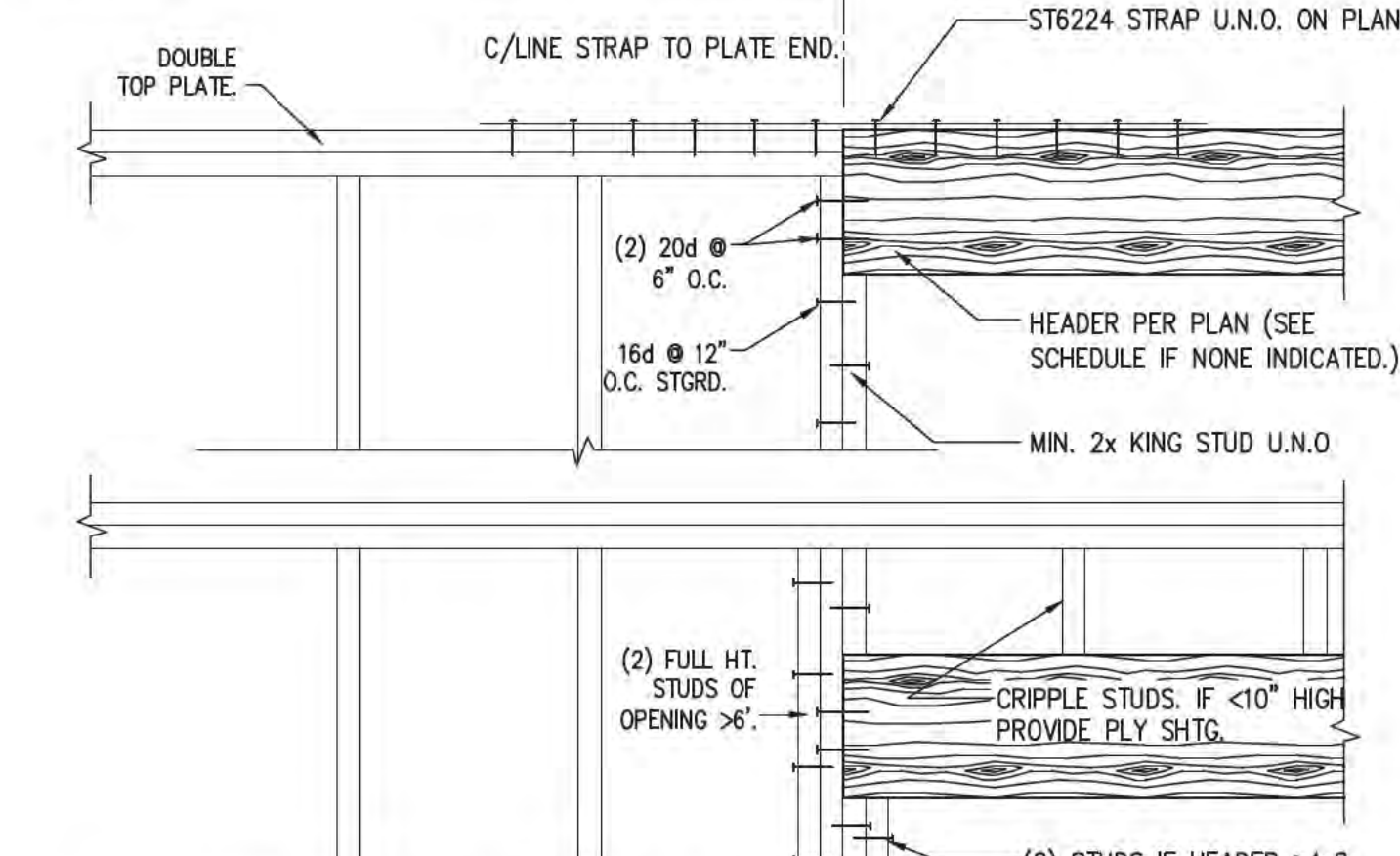
11 SHEAR TRANSFER

3"=1'-0"



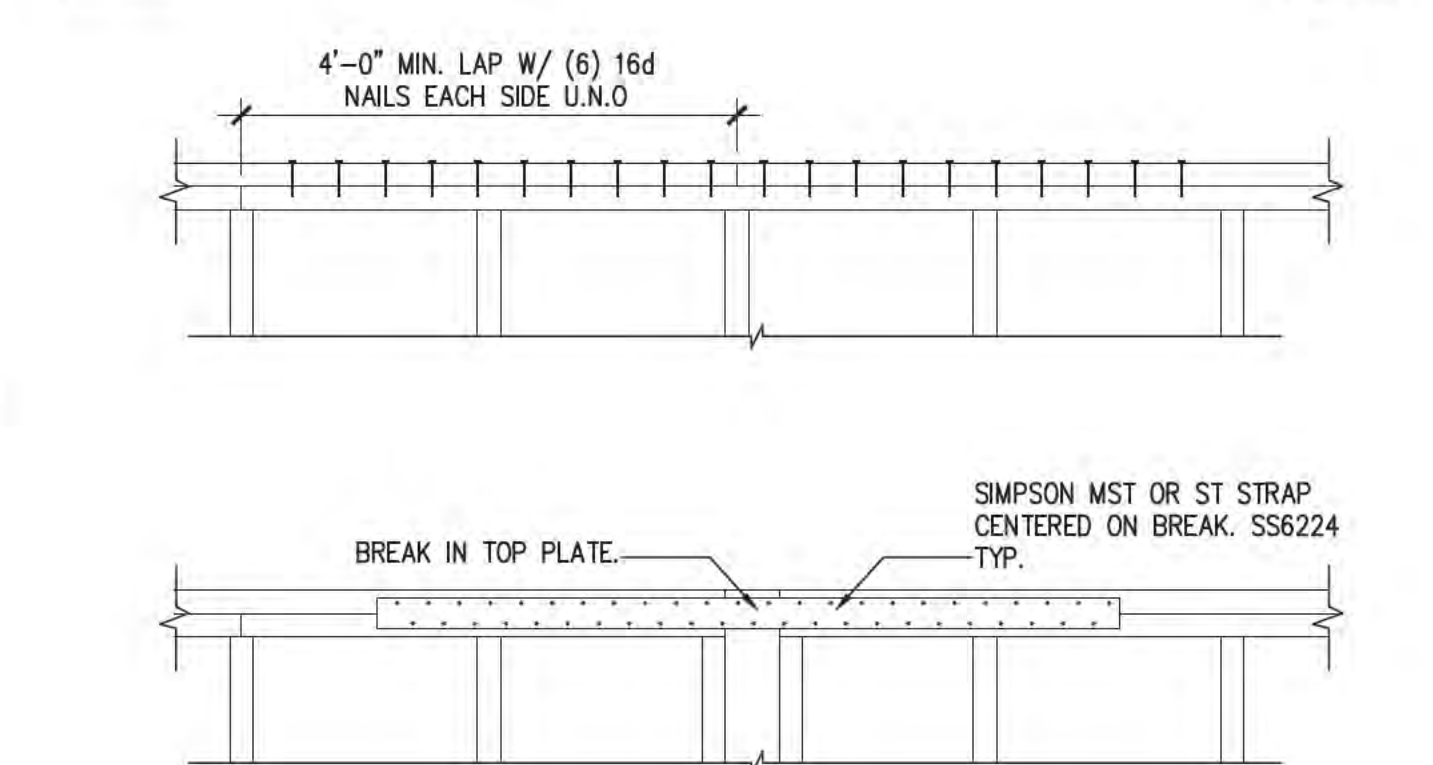
12 TYP. OPENING IN FRAMING

1"=1'-0"



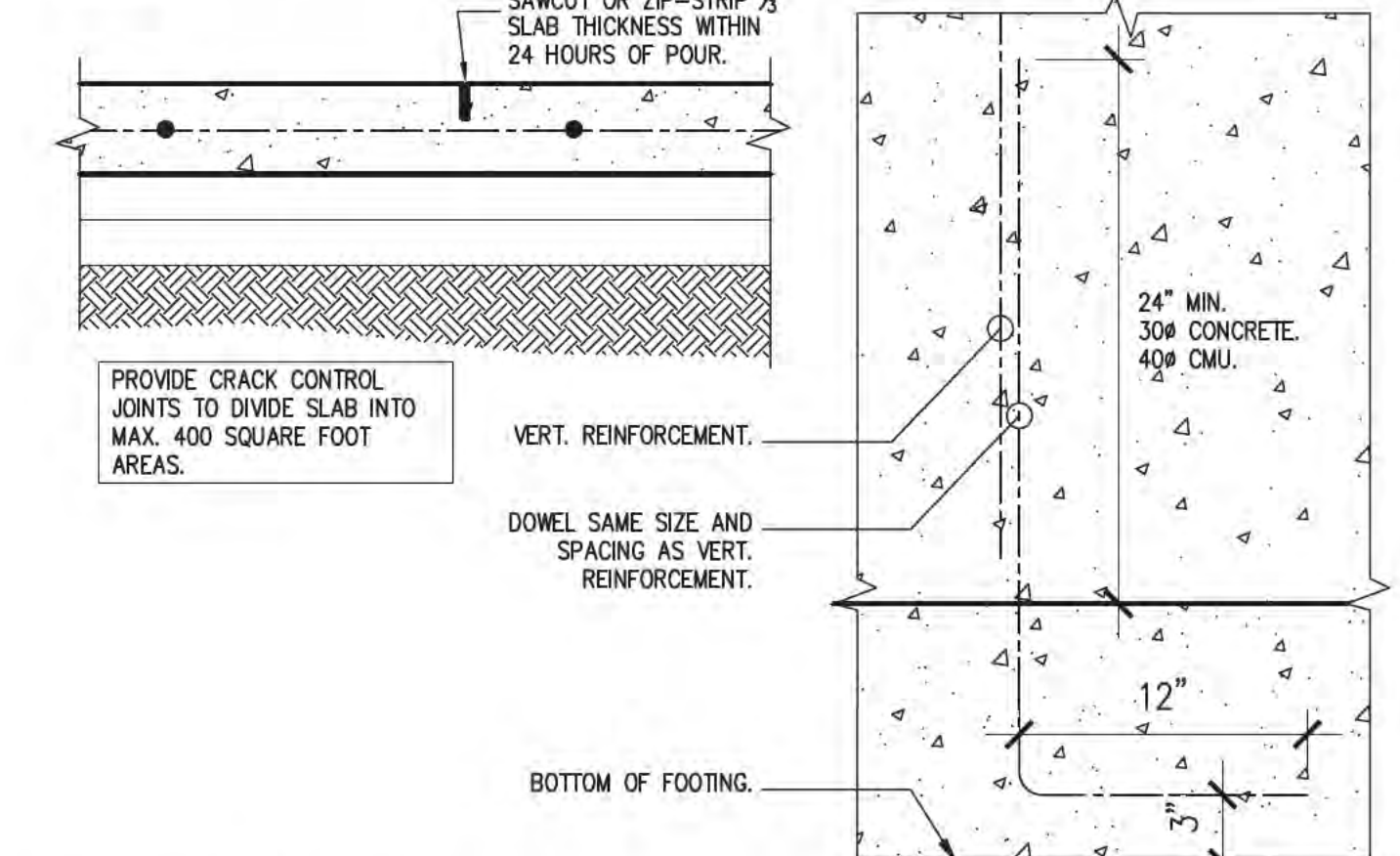
6 HEADER END DETAIL

1"=1'-0"



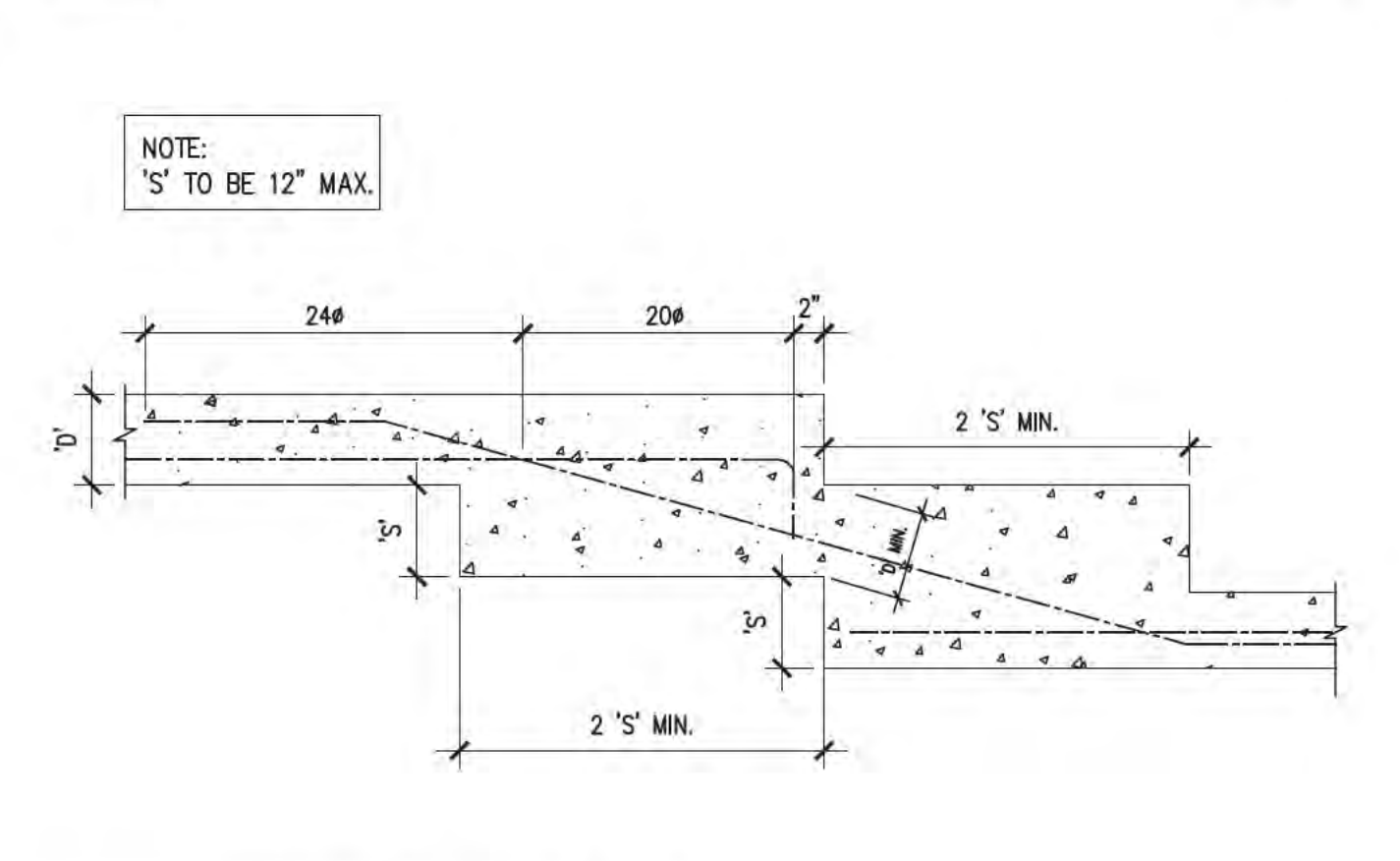
7 TOP PLATE SPLICE

1"=1'-0"



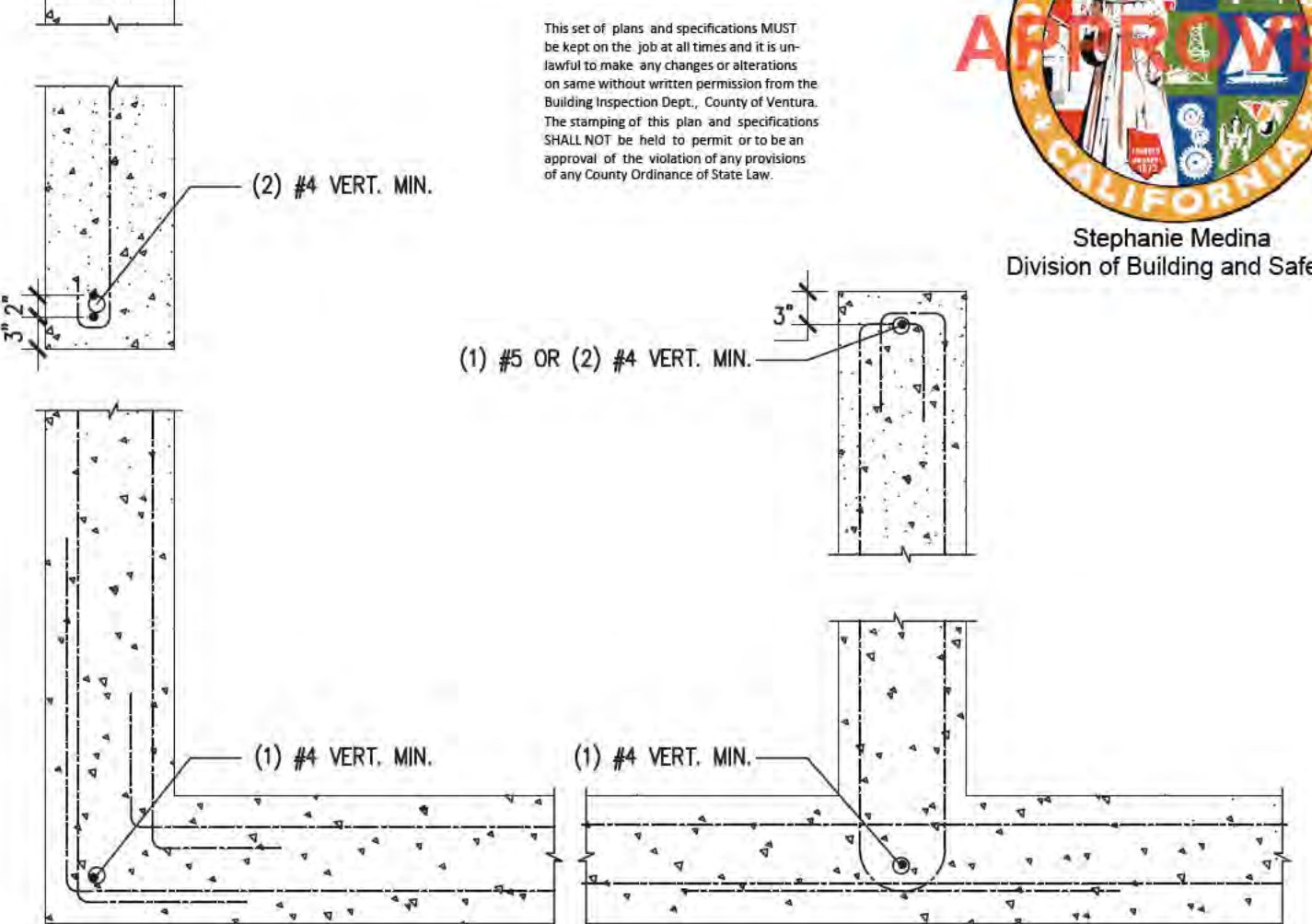
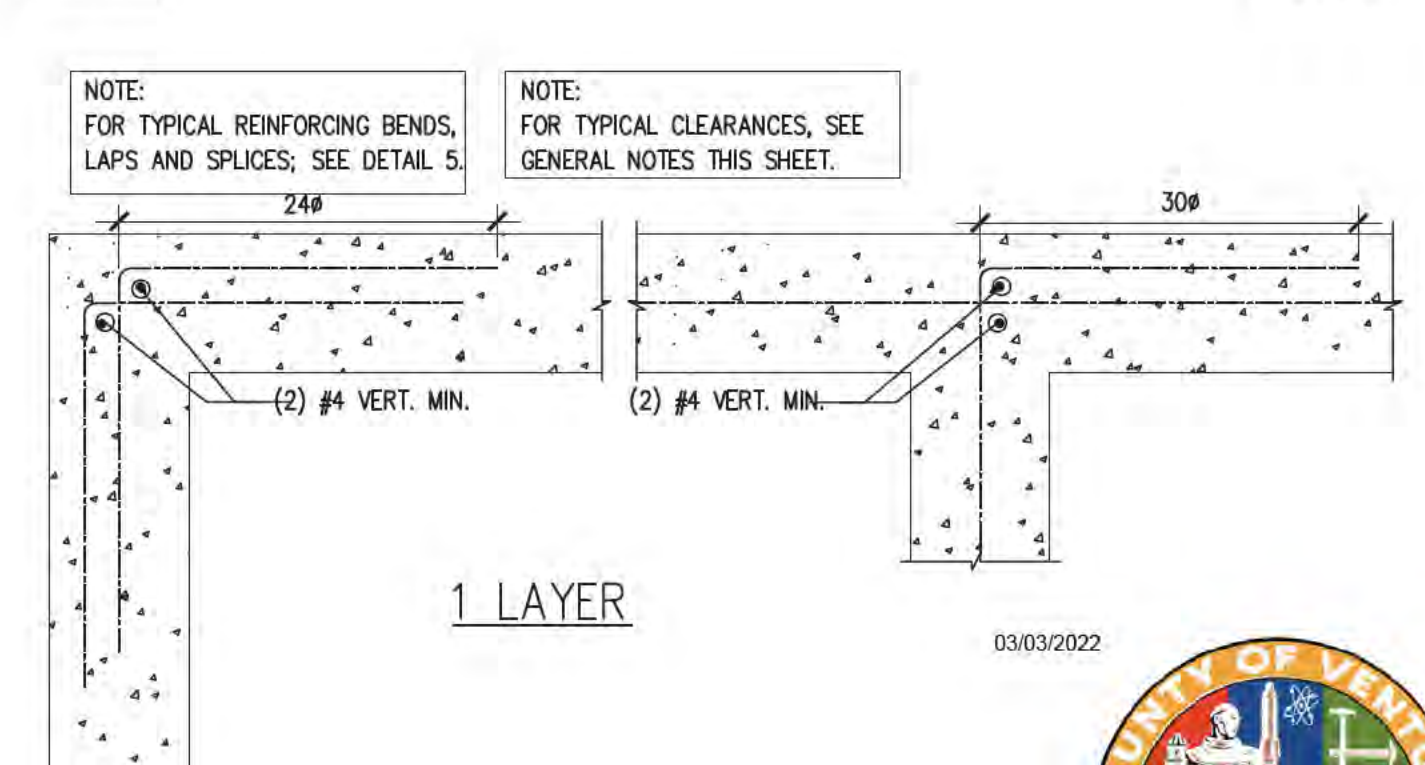
8 FOOTING DOWEL & CRACK CTL

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



2 STEPPED FOOTING

1"=1'-0"



2 LAYERS

4 REINFORCEMENT @ CORNERS

3/4"=1'-0"

Revisions		
No.	Description	Date

Laura B. Reader, P.E.  
 Structural Design and Consulting  
 Civil Engineer, C.E. #59400  
 805-985-1700  
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STANDARD  
 STRUCTURAL  
 DETAILS

PROPOSED CONSTRUCTION



DRAWN CMS	CHECKED
DATE 11-04-2021	SCALE AS NOTED
JOB NO. 21-18-20	SHEET

S0.2

C21-001401



Shearwall Schedule

Sym	Sheathing and Nailing	Sill Anchorage	A35	Remarks
6	15/32" Struc 1 Ply (32/16) With 10d @ 6,6,12 v allow = 340 plf	5/8" dia. A.B. @ 32" o.c.	16" o.c.	
WSV	Simpson strongwall WSW 12 x 8 v allow = 1030#	(2)7/8" dia. Std. all-thrd	16" o.c.	Install per ICC-ES ESR 2652

Plywood per PS 1-09 or OSB per PS 2-10. Nails to be 3/8" from edge of ply panel.  
All plywood to be APA rated 5-ply. Use full panels wherever possible.  
No ply panels less than 24" width allowed.  
8d common nails- .131" x 2 1/2"  
10d common nails- .148" x 2 3/8"

Structural Design Criteria-166 N. Encinal Ave.

CBC 2019, ASCE 7-16  
Allowable Soil Bearing Pressure=1500 psf per County of Ventura Soils Waiver

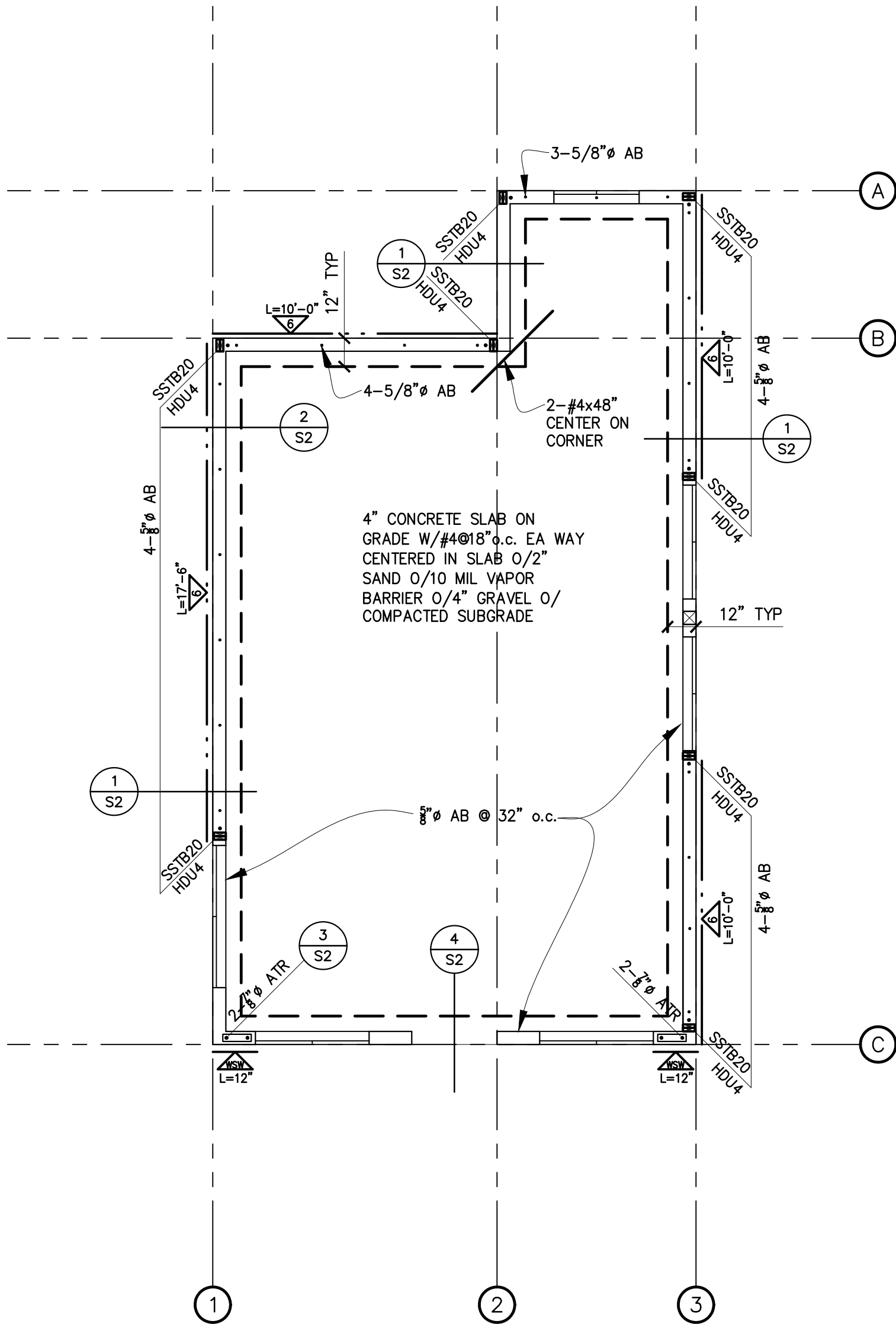
Roof Live Load = 20 psf                      Dead Load = 12 psf

Wind Design

Ultimate Wind Design Speed= 93 mph, Nominal Wind Design Speed= 85 mph  
Risk Category II  
Wind Exposure = C  
Design Wind Pressure Coefficient                      Windward Walls = 13.8 psf  
Leeward Walls = 9.7 psf  
Windward Roof = 9.7 psf  
Leeward Roof = 11.04 psf  
Internal Pressure Coefficient= GCpi=+0.18, -0.18

Seismic Design

Equivalent Lateral Force Procedure  
Seismic Importance Factor I = 1.0  
Risk Category = II  
Seismic parameters per USGS website  
Site Class = D default  
Seismic Design Category = D  
Sms= 2.24 g Sm1= g Ss=1.867 g S1=.707 g Sds=1.494 g Sd1=.822 g  
Fa = 1.2 Fv= null  
Basic shear force resisting system- light frame shear panels R=6.5  
Cs=Sds/(R/I)= .230 W

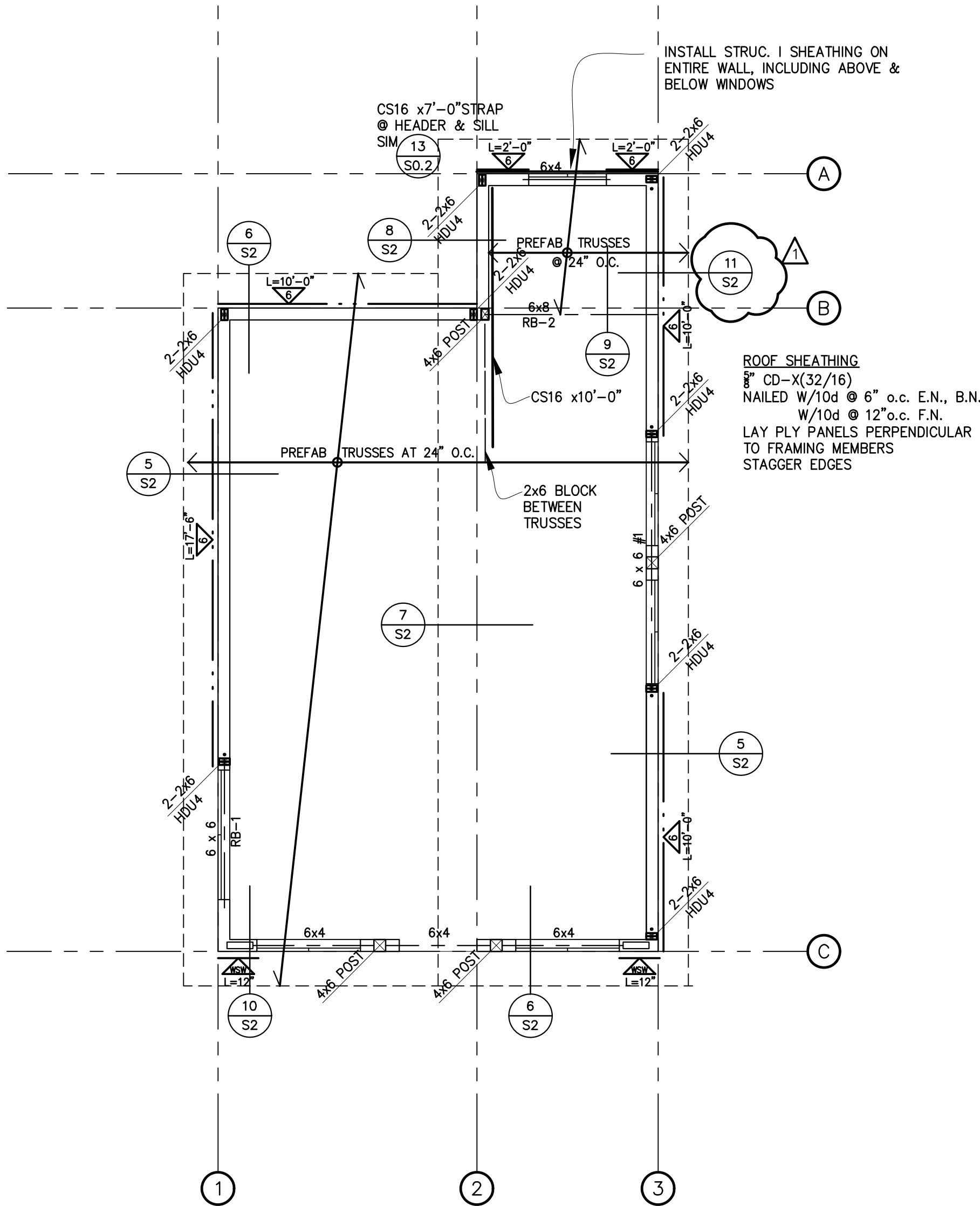


FOUNDATION PLAN

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

FOUNDATION NOTES:

- PREPARE SITE PER APPROVED "FOUNDATION AND SOILS INVESTIGATION WAIVER REQUEST" FROM VENTURA COUNTY.
  - PROPOSED FLOOR AREA DOES NOT EXCEED 1000 sf
  - PROPOSED CONSTRUCTION IS ON AN EXISTING NATURAL, LEVEL LOT WITH NO FILL
- ALL HOLDOWN ANCHORS TO BE SET IN PLACE BY TEMPLATE PRIOR TO FOUNDATION INSPECTION..



ROOF FRAMING PLAN

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

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03/03/2022



Stephanie Medina  
Division of Building and Safety

Revisions		
No.	Description	Date
1	PLAN CHECK	2.8.22

Laina B. Reeder, P.E.  
Structural Design and Consulting  
Civil Engineer, C.E. #99400  
805 985 1700 reeder.lb@gmail.com



FOUNDATION PLAN  
C21-001401

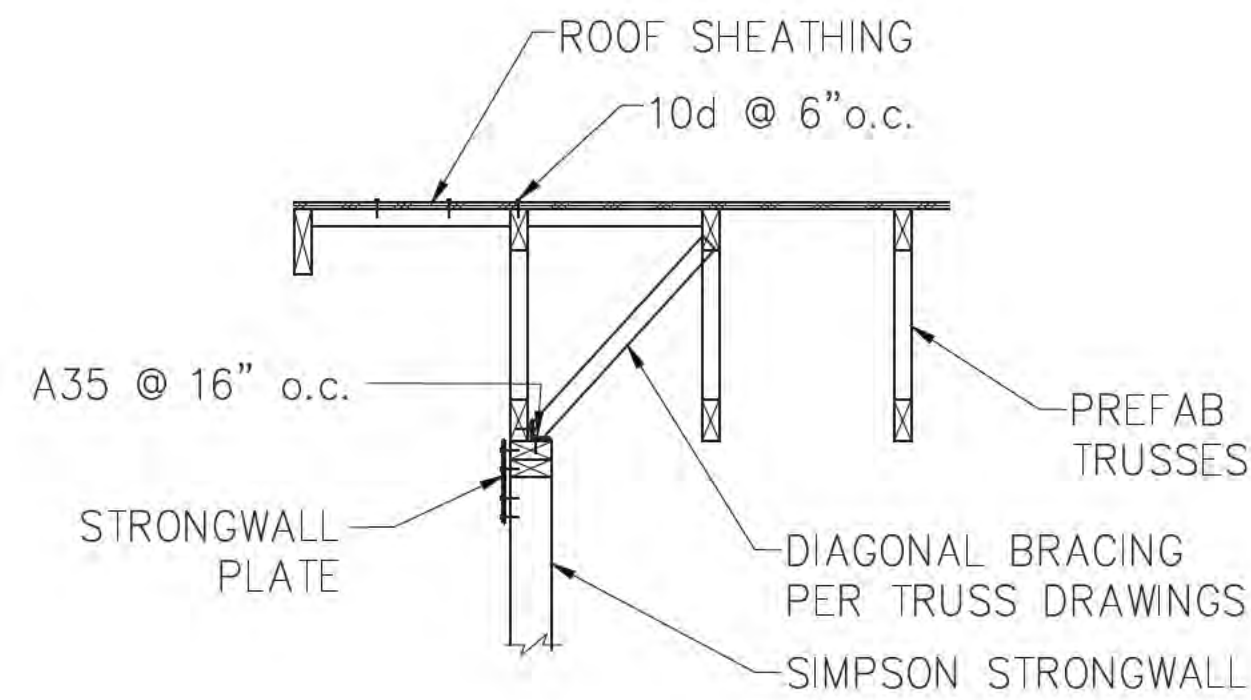
PROPOSED CONSTRUCTION

DRAWN  
LMM  
CHECKED

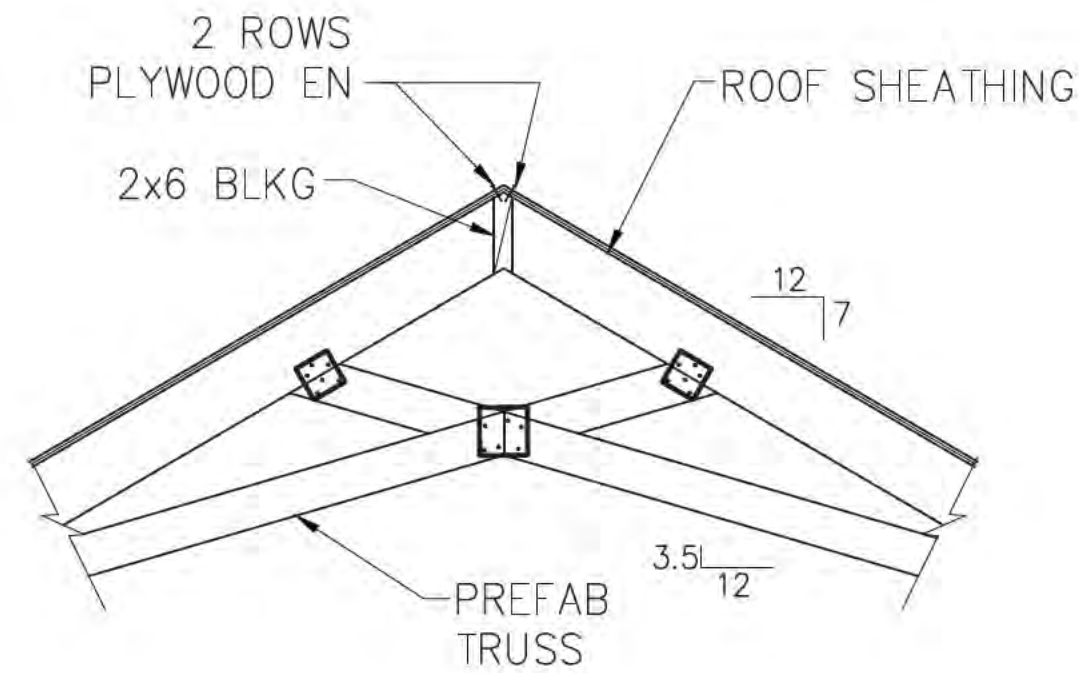
DATE  
11-04-2021  
SCALE  
AS NOTED  
JOB NO.  
21-10-20  
SHEET

S1

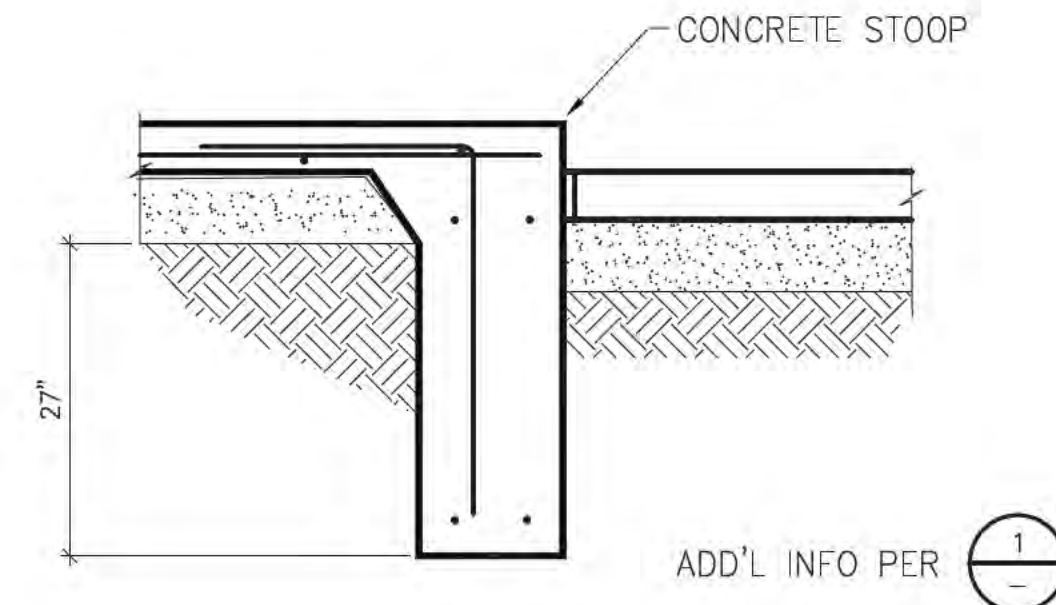




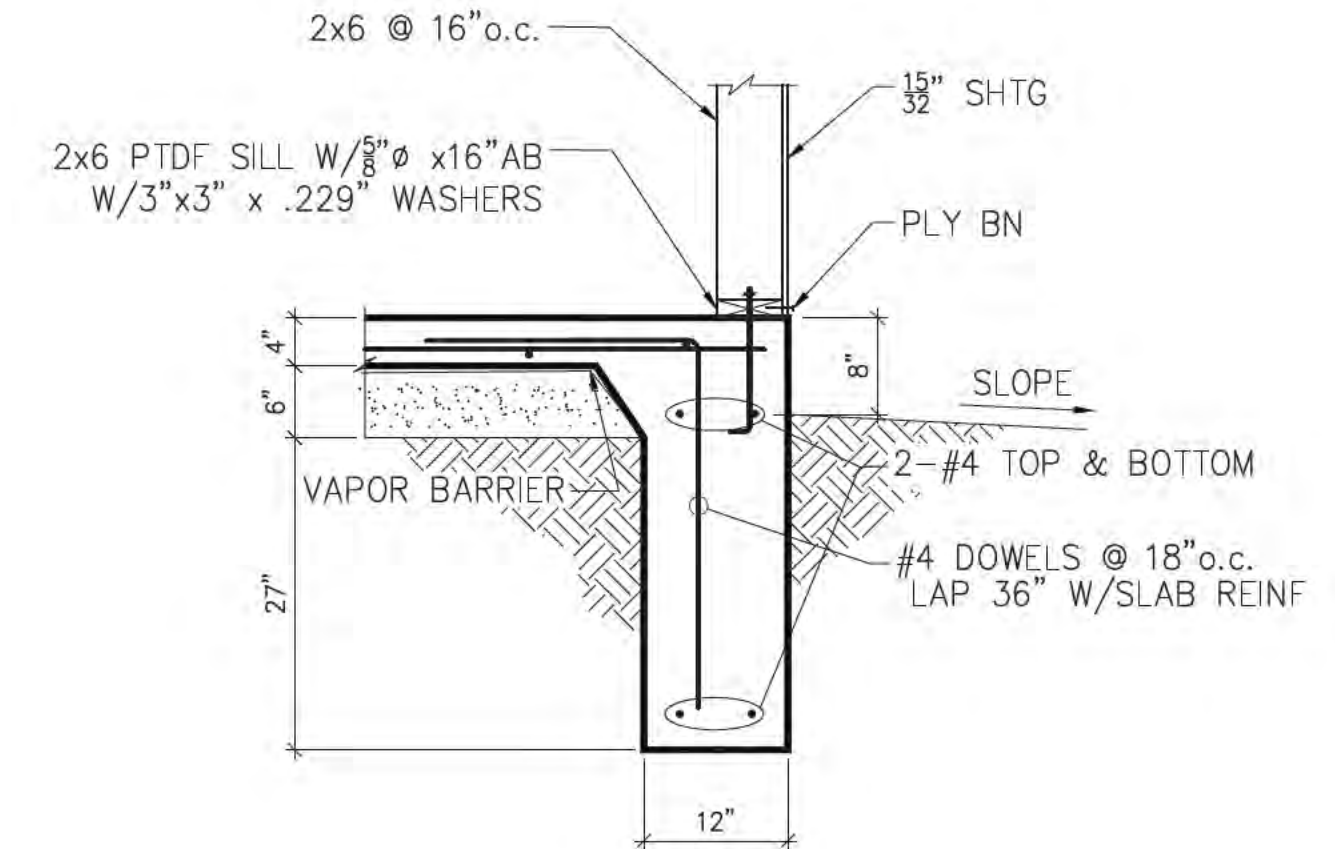
10 STRONGWALL  
3/4"=1'-0"



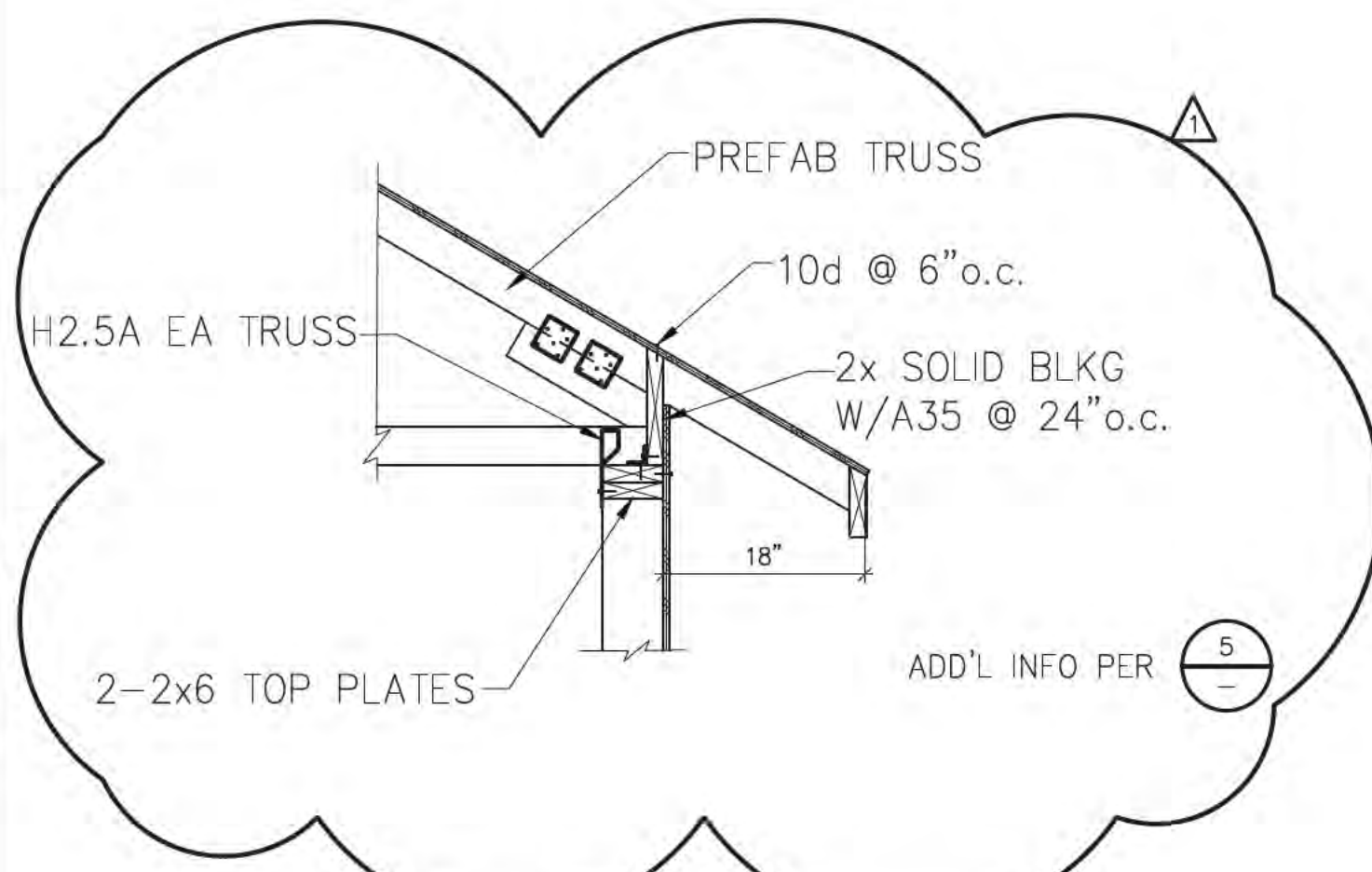
7 RIDGE BOARD  
3/4"=1'-0"



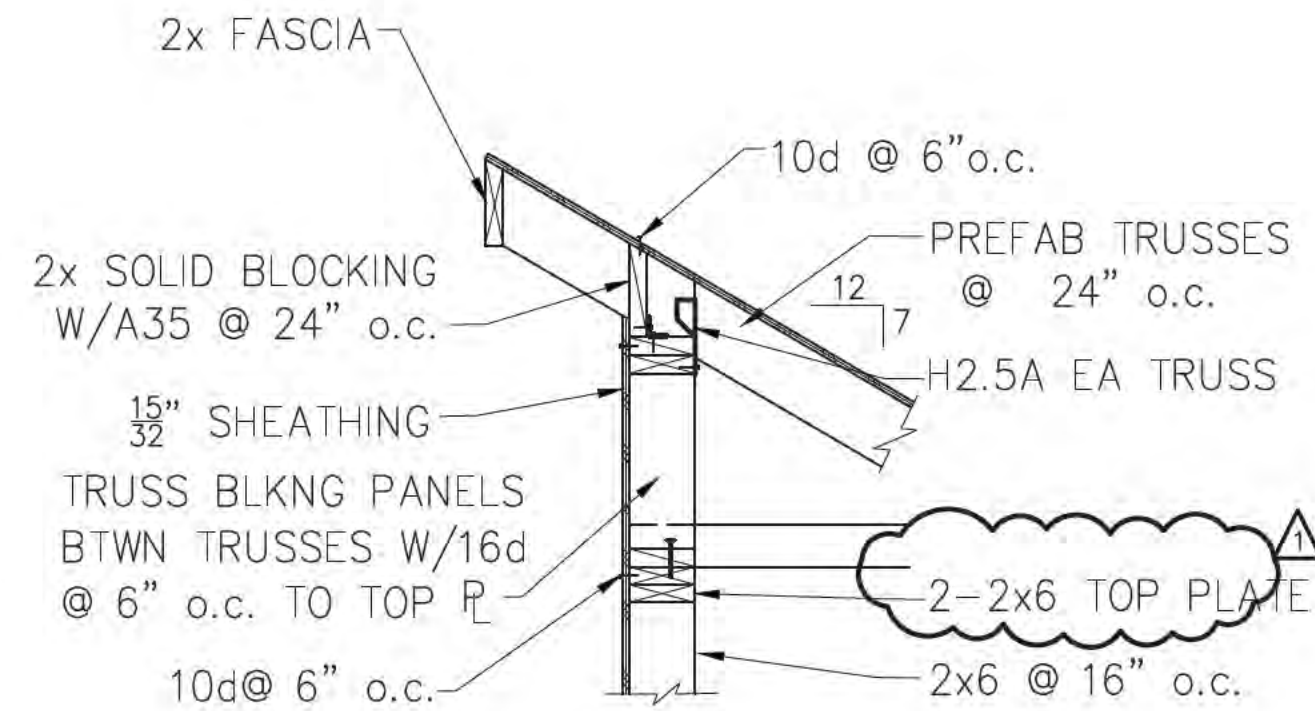
4 EXTERIOR FOOTING  
3/4"=1'-0"



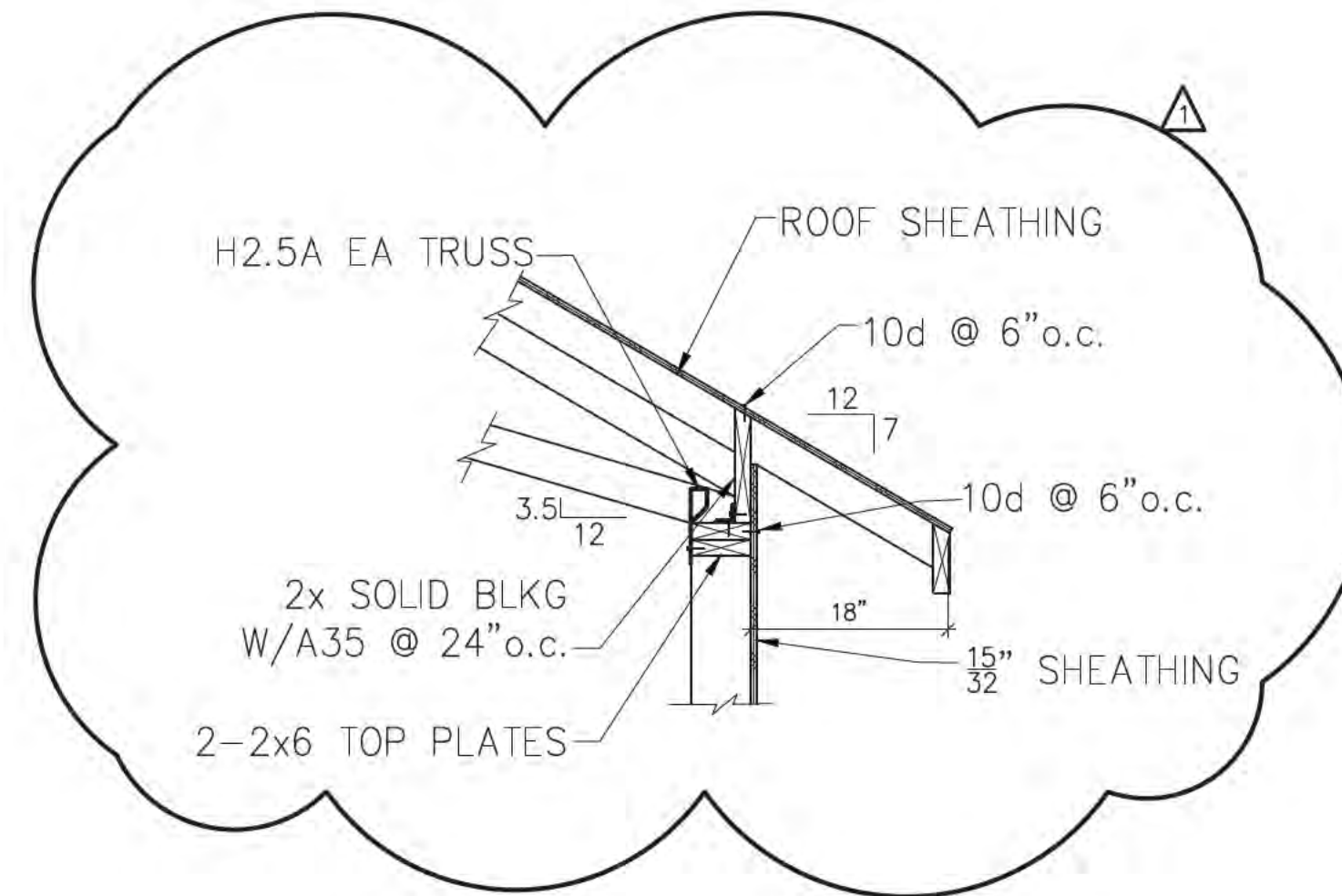
1 EXTERIOR FOOTING  
3/4"=1'-0"



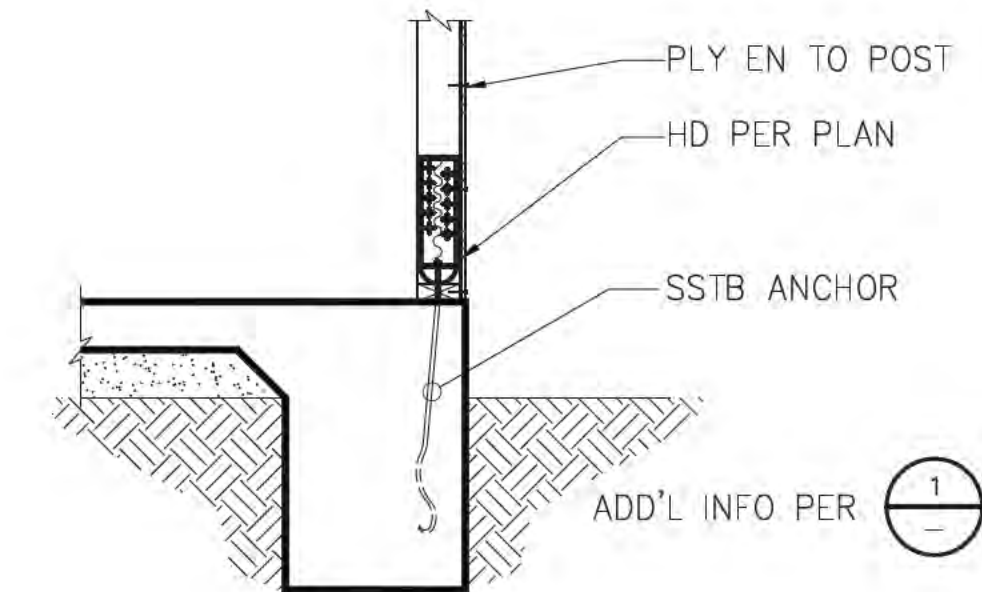
5 EAVE AT SCISSORS TRUSS  
3/4"=1'-0"



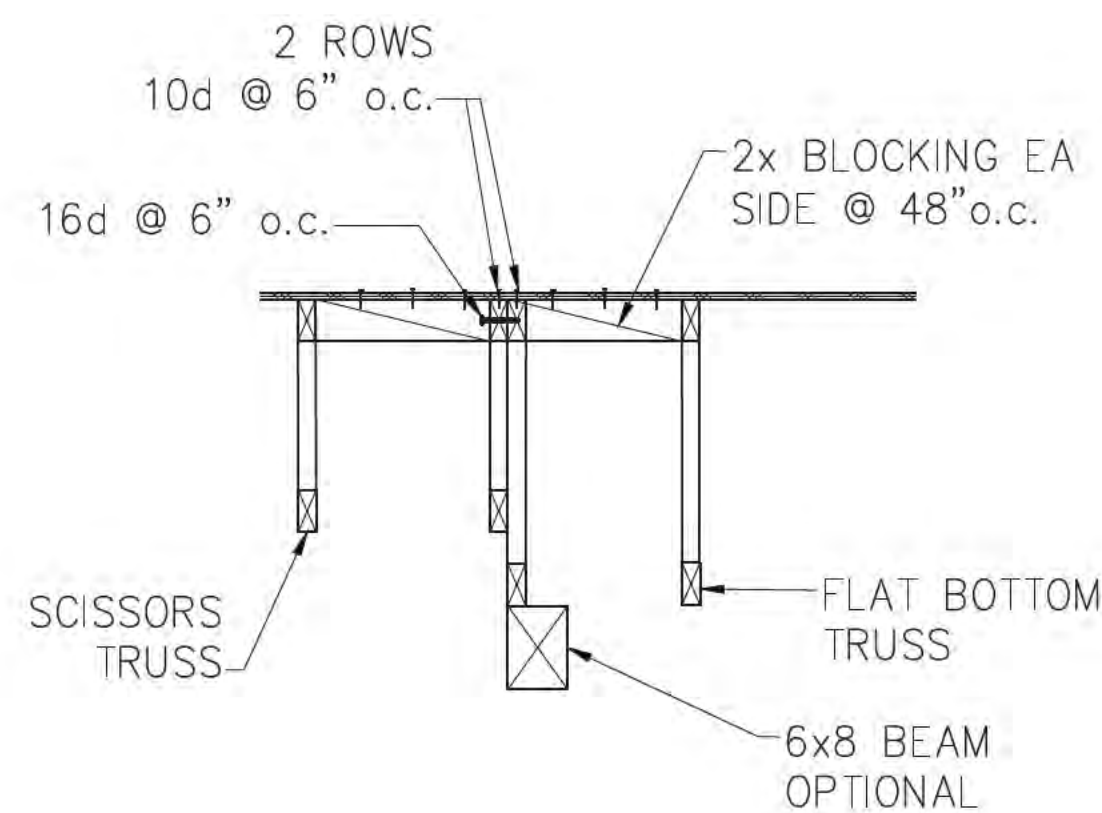
8 EAVE AT HIGH SIDE  
3/4"=1'-0"



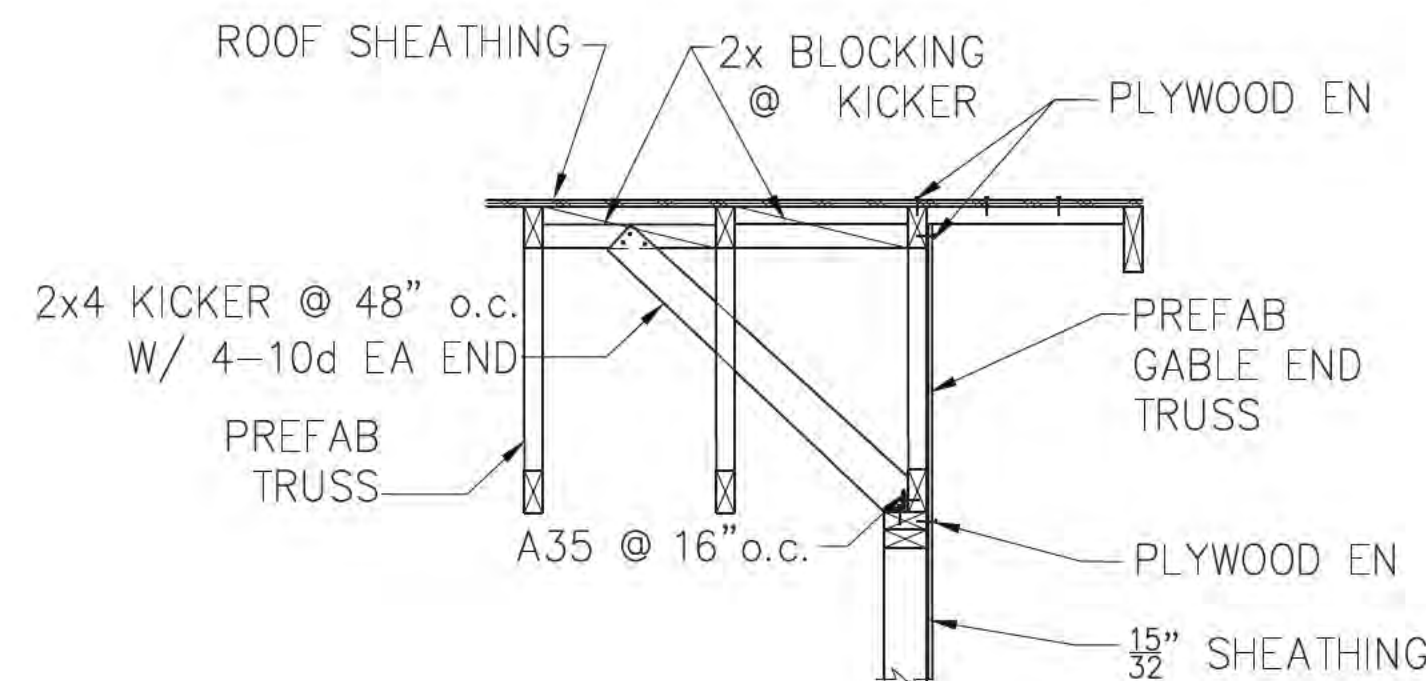
5 EAVE AT SCISSORS TRUSS  
3/4"=1'-0"



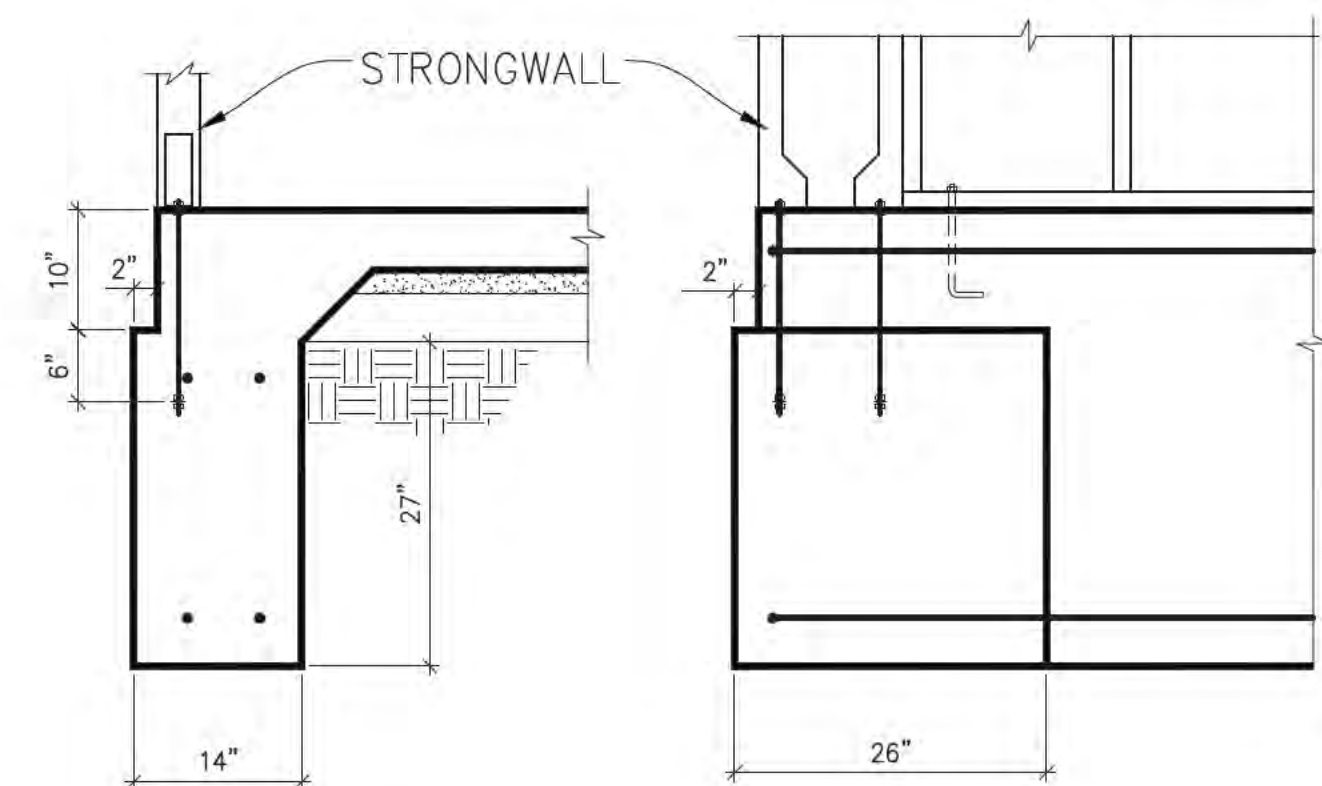
2 HOLDOWN  
3/4"=1'-0"



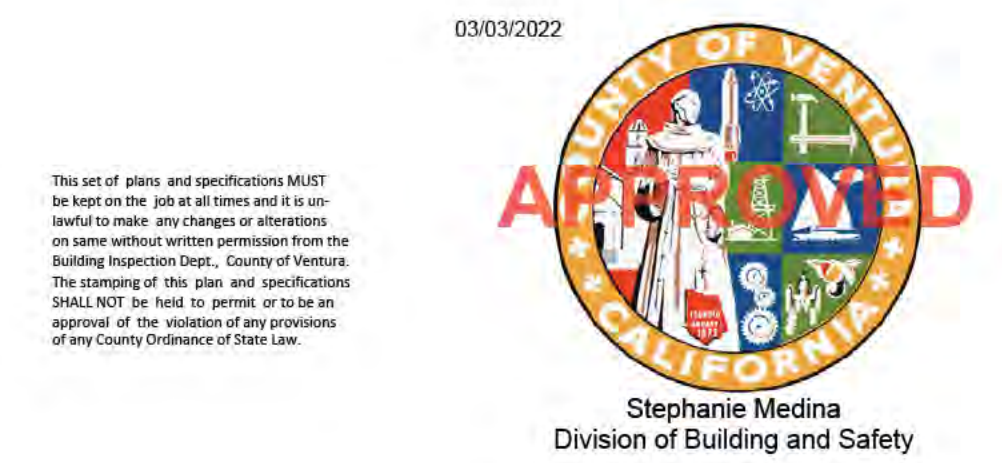
9 ROOF TRANSITION  
3/4"=1'-0"



6 TYPICAL RAKE  
3/4"=1'-0"

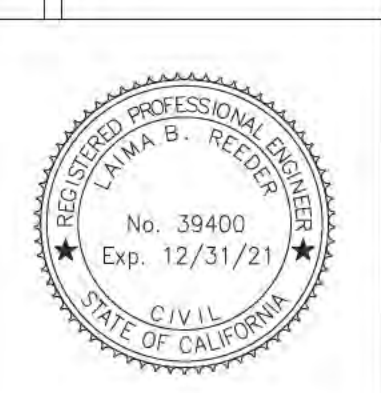


3 STRONGWALL FOUNDATION  
3/4"=1'-0"



Revisions		
No.	Description	Date
1	PLAN CHECK	2.8.22

Laina B. Reader, P.E.,  
Structural Design and Consulting  
Civil Engineer, C.E. #99400  
805-985-1700 readerlb@gmail.com



STRUCTURAL  
DETAILS  
C21-001401

PROPOSED CONSTRUCTION

DRAWN  
LMM  
CHECKED  
DATE  
11-04-2021  
SCALE  
AS NOTED  
JOB NO.  
21-10-20  
SHEET

S2



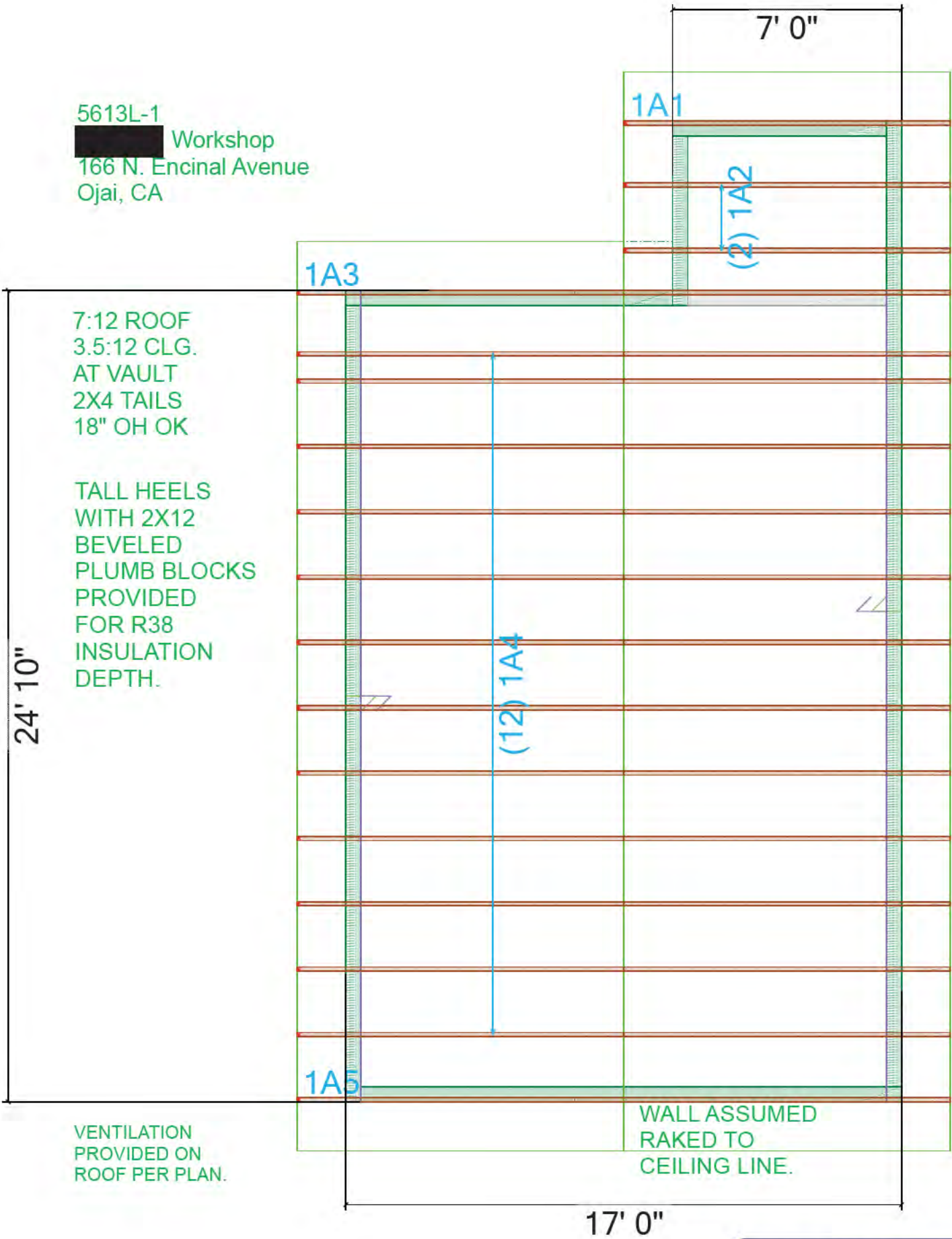
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Stephanie Medina  
Division of Building and Safety

C21-001401

5613L-1  
[redacted] Workshop  
166 N. Encinal Avenue  
Ojai, CA



**REVIEWED**  
By Laima Reeder at 3:12 pm, Feb 18, 2022



CERTIFICATE OF COMPLIANCE  
Project Name: New Accessory Structure Unit  
Calculation Description: Title 24 Analysis

Calculation Date/Time: 2021-12-08T13:16:58-08:00  
Input File Name: 21112401\_Acces\_R01.rbd19x

CF1R-PRF-01E  
(Page 1 of 8)

GENERAL INFORMATION					
01	Project Name		New Accessory Structure Unit		
02	Run Title		Title 24 Analysis		
03	Project Location		166 North Encinal Avenue		
04	City		05	Standards Version	
06	Zip code		07	Software Version	
08	Climate Zone		09	Front Orientation (deg/ Cardinal)	
10	Building Type		11	Number of Dwelling Units	
12	Project Scope		13	Number of Bedrooms	
14	Addition Cond. Floor Area (ft <sup>2</sup> )		15	Number of Stories	
16	Existing Cond. Floor Area (ft <sup>2</sup> )		17	Fenestration Average U-factor	
18	Total Cond. Floor Area (ft <sup>2</sup> )		19	Glazing Percentage (%)	
20	ADU Bedroom Count		21	ADU Conditioned Floor Area	
22	Is Natural Gas Available?				

Addition Alone Project Analysis Parameters					
01	02	03	04	05	06
Existing Area (excl. new addition) (ft2)	Addition Area (excl. existing) (ft2)	Total Area (ft2)	Existing Bedrooms	Addition Bedrooms	Total Bedrooms
1815	458	2273	4	0	4

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

Registration Number: 421-P010175709A-000-000-0000000-0000  
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CA Building Energy Efficiency Standards - 2019 Residential Compliance  
Report Version: 2019.1.300  
Schema Version: rev 20200901

Registration Date/Time: 12/08/2021 14:11

HERS Provider: CHEERS

Report Generated: 2021-12-08 13:17:14

CERTIFICATE OF COMPLIANCE  
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(Page 4 of 8)

FENESTRATION / GLAZING													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft <sup>2</sup> )	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
Window 4 sghg	Window	West Frame Wall	Front	282			1	14	0.3	NFRC	0.45	NFRC	Bug Screen
Window 5 sghg	Window	West Frame Wall	Front	282			1	14	0.3	NFRC	0.45	NFRC	Bug Screen
Door A swg	Window	West Frame Wall	Front	282			1	20	0.3	NFRC	0.45	NFRC	Bug Screen

SLAB FLOORS							
01	02	03	04	05	06	07	08
Name	Zone	Area (ft <sup>2</sup> )	Perimeter (ft)	Edge Insul. R-value and Depth	Edge Insul. R-value and Depth	Carpeted Fraction	Heated
Slab-on-Grade	New	458	94	none	0	80%	No

OPAQUE SURFACE CONSTRUCTIONS							
01	02	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
R-21 Wall	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O. C.	R-21	None / None	0.069	Inside Finish: Gypsum Board Cavity / Frame: R-21 / 2x6 Exterior Finish: 3 Coat Stucco
R-30 Roof Cathedral	Cathedral Ceilings	Wood Framed Ceiling	2x10 @ 16 in. O. C.	R-30	None / None	0.037	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: R-30 / 2x10 Inside Finish: Gypsum Board

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(Page 2 of 8)

ENERGY USE SUMMARY				
Energy Use (kTDV/ft <sup>2</sup> -yr)	Standard Design	Proposed Design	Compliance Margin	Percent Improvement
Space Heating	82.65	82.61	0.04	0
Space Cooling	4.49	7.11	-2.62	-58.4
IAQ Ventilation	0	0	0	
Water Heating	45.07	40.65	4.42	9.8
Self Utilization/Flexibility Credit	n/a	0	0	n/a
Compliance Energy Total	132.21	130.37	1.84	1.4

**REQUIRED SPECIAL FEATURES**  
The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.  
• Variable capacity heat pump compliance option (verification details from VCHP Staff report, Appendix B, and RA3)

**HERS FEATURE SUMMARY**  
The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry  
Building-Level Verifications:  
• Quality insulation installation (QII)  
Cooling System Verifications:  
• Verified Refrigerant Charge  
• Airflow in habitable rooms (SC3.1.4.1.7)  
Heating System Verifications:  
• Verified heat pump rated heating capacity  
• Wall-mounted thermostat in zones greater than 150 ft<sup>2</sup> (SC3.4.5)  
• Ductless indoor units located entirely in conditioned space (SC3.1.4.1.8)  
HVAC Distribution System Verifications:  
• --None--  
Domestic Hot Water System Verifications:  
• --None--

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(Page 5 of 8)

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

WATER HEATING SYSTEMS						
01	02	03	04	05	06	07
Name	System Type	Distribution Type	Water Heater Name (#)	Solar Heating System	Compact Distribution	HERS Verification
DHW Sys 1	Domestic Hot Water (DHW)	Standard Distribution System	DHW Heater 1 (1)	n/a	None	n/a

WATER HEATERS													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Heating Element Type	Tank Type	# of Units	Tank Vol. (gal)	Energy Factor or Efficiency	Input Rating or Pilot	Tank Insulation R-value (Int/Ext)	Standby Loss or Recovery Eff	1st Hr. Rating or Flow Rate	NEEA Heat Pump Brand or Model	Tank Location or Ambient Condition	Status	Verified Existing Condition
DHW Heater 1	Gas	Consumer Instantaneous	1	0	0.93 UEF	<= 200 kBTU/hr	0	n/a	n/a	n/a	n/a	New	n/a

WATER HEATING - HERS VERIFICATION							
01	02	03	04	05	06	07	08
Name	Pipe Insulation	Parallel Piping	Compact Distribution	Compact Distribution Type	Recirculation Control	Central DHW Distribution	Shower Drain Water Heat Recovery
DHW Sys 1 - 1/1	Not Required	Not Required	Not Required	None	Not Required	Not Required	Not Required

Registration Number: 421-P010175709A-000-000-0000000-0000  
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(Page 3 of 8)

ZONE INFORMATION						
01	02	03	04	05	06	07
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft <sup>2</sup> )	Avg. Ceiling Height	Water Heating System 1	Water Heating System 2
New	Conditioned	Heating/Cooling1	458	10.5	DHW Sys 1	N/A

OPAQUE SURFACES								
01	02	03	04	05	06	07	08	09
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft <sup>2</sup> )	Window and Door Area (ft2)	Tilt (deg)	Wall Exceptions
North Frame Wall	New	R-21 Wall	12	Left	260.8	6	90	none
East Frame Wall	New	R-21 Wall	102	Back	177.6	6	90	none
South Frame Wall	New	R-21 Wall	192	Right	240.2	12	90	none
West Frame Wall	New	R-21 Wall	282	Front	177.6	48	90	none

OPAQUE SURFACES - CATHEDRAL CEILINGS										
01	02	03	04	05	06	07	08	09	10	11
Name	Zone	Construction	Azimuth	Orientation	Area (ft <sup>2</sup> )	Skylight Area (ft <sup>2</sup> )	Roof Rise (x in 12)	Roof Reflectance	Roof Emittance	Cool Roof
R-30 Roof Cathe.	New	R-30 Roof Cathedral	0	n/a	481	0	7	0.1	0.85	No

FENESTRATION / GLAZING													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft <sup>2</sup> )	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
Window 6 slid	Window	North Frame Wall	Left	12			1	6	0.3	NFRC	0.45	NFRC	Bug Screen
Window 1 sghg	Window	East Frame Wall	Back	102			1	6	0.3	NFRC	0.45	NFRC	Bug Screen
Window 2 slid	Window	South Frame Wall	Right	192			1	6	0.3	NFRC	0.45	NFRC	Bug Screen
Window 3 slid	Window	South Frame Wall	Right	192			1	6	0.3	NFRC	0.45	NFRC	Bug Screen

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(Page 6 of 8)

SPACE CONDITIONING SYSTEMS													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	System Type	Heating Unit Name	Cooling Unit Name	Fan Name	Distribution Name	Required Thermostat Type	Status	Verified Existing Condition	Heating Equipment Count	Cooling Equipment Count			
Heating/Cooling1	Heat pump heating cooling	Heat Pump System 1	Heat Pump System 1	n/a	n/a	Setback	New	NA	1	1			

HVAC - HEAT PUMPS										
01	02	03	04	05	06	07	08	09	10	11
Name	System Type	Number of Units	HSPP/COP	Cap 47	Cap 17	SEER	EER/CEER	Zonally Controlled	Compressor Type	HERS Verification
Heat Pump System 1	VCHP-ductless	1	8.2	17000	12750	14	11.7	Not Zonal	Single Speed	Heat Pump System 1-herh-htpump

HVAC HEAT PUMPS - HERS VERIFICATION								
01	02	03	04	05	06	07	08	09
Name	Verified Airflow	Airflow Target	Verified EER	Verified SEER	Verified Refrigerant Charge	Verified HSPF	Verified Heating Cap 47	Verified Heating Cap 17
Heat Pump System 1-herh-htpump	Not Required	0	Not Required	Not Required	Yes	No	Yes	Yes

VARIABLE CAPACITY HEAT PUMP COMPLIANCE OPTION - HERS VERIFICATION									
01	02	03	04	05	06	07	08	09	10
Name	Certified Low-Static VCHP System	Airflow to Habitable Rooms	Ductless Units in Conditioned Space	Wall Mount Thermostat	Air Filter Sizing & Pressure Drop Rating	Low Leakage Ducts in Conditioned Space	Minimum Airflow per RA3.3 and SC3.3.3.4.1	Certified non-continuous Fan	Indoor Fan not Running Continuously
Heat Pump System 1	Not required	Required	Required	Required	Not required	Not required	Not required	Not required	Not required

**PROJECT NOTES**

Registration Number: 421-P010175709A-000-000-0000000-0000  
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CERTIFICATE OF COMPLIANCE

Project Name: New Accessory Structure Unit

Calculation Description: Title 24 Analysis

Attached Heating & Cooling load summary is submitted as part of the calculations required by the current regulations. DO NOT USE FOR ACTUAL HEATING & AC DESIGN.

Calculation Date/Time: 2021-12-08T13:16:58-08:00

Input File Name: 21112401\_Acces\_R01.rbd19x

CF1R-PRF-01E

(Page 7 of 8)

CERTIFICATE OF COMPLIANCE

Project Name: New Accessory Structure Unit

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Calculation Date/Time: 2021-12-08T13:16:58-08:00

Input File Name: 21112401\_Acces\_R01.rbd19x

CF1R-PRF-01E

(Page 8 of 8)

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:

Company:

Solargy, Inc.

Address:

22028 Ventura Blvd Suite 207

City/State/Zip:

Woodland Hills, CA 91364

Documentation Author Signature:

Marcos Rendon

Signature Date:

12/08/2021

CEA/HERS Certification Identification (If applicable):

Phone:

818-347-6096

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury under the laws of the State of California:

- 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.
- 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.
- 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:

Company:

Address:

166 North Encinal Avenue

City/State/Zip:

Ojai, CA 93023

Responsible Designer Signature:

Date Signed:

12/08/2021

License:

Phone:

Digitally signed by ConSol Home Energy Efficiency Rating System Services, Inc. (CHEERS). This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.

Registration Number: 421-P010175709A-000-000-0000000-0000

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Report Generated: 2021-12-08 13:17:14

RESIDENTIAL MEASURES SUMMARY

RMS-1

Project Name	Building Type	<input checked="" type="checkbox"/> Single Family	<input checked="" type="checkbox"/> Addition Alone	Date	12/8/2021
New Accessory Structure Unit	<input type="checkbox"/> Multi Family	<input type="checkbox"/> Existing+ Addition/Alteration			
Project Address	California Energy Climate Zone	Total Cond. Floor Area	Addition	# of Units	
166 North Encinal Avenue Ojai	CA Climate Zone 16	458	458	1	

INSULATION	Construction	Type	Cavity	Area (ft²)	Special Features	Status
Roof	Wood Framed Rafter	R 30		481		New
Wall	Wood Framed	R 21		784		New
Slab	Unheated Slab-on-Grade	- no insulation		458	Perim = 94	New

FENESTRATION	Orientation	Area(ft²)	Total Area	U-Fac	SHGC	Overhang	Sidefins	Exterior Shades	New/Altered Average U-Factor	Status
Left (N)	6.0	0.300	0.45	none	none	N/A			0.30	New
Rear (E)	6.0	0.300	0.45	none	none	N/A				New
Right (S)	12.0	0.300	0.45	none	none	N/A				New
Front (W)	28.0	0.300	0.45	none	none	N/A				New
Front (W)	20.0	0.300	0.45	none	none	N/A				New

HVAC SYSTEMS

Qty.	Heating	Min. Eff	Cooling	Min. Eff	Thermostat	Status
1	Split Heat Pump	8.20 HSPF	Split Heat Pump	14.0 SEER	Setback	New

HVAC DISTRIBUTION

Location	Heating	Cooling	Duct Location	Duct R-Value	Status
Heating/Cooling	Ductless / with Fan	Ductless	n/a	n/a	New

WATER HEATING

Qty.	Type	Gallons	Min. Eff	Distribution	Status
1	Small Instantaneous Gas	0	0.93	Standard	New

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TITLE 24 ENERGY ANALYSIS

C21-001401

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SCALE

JOB NO.

SHEET

T24-2

OF 2 SHEETS

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General Notes

1. Compliance information The builder shall leave in the building, copies of the completed, signed and submitted compliance documents for the building owner at occupancy. For low-rise residential buildings, such information shall, at a minimum, include copies of all Certificate of Compliance, Certificate of Installation, and Certificate of Verification documentation submitted. . [10-103(b)1]

2. Operating information. The builder shall provide the building owner at occupancy, operating information for all applicable features, materials, components, and mechanical devices installed in the building. Operating information shall include instructions on how to operate the features, materials, components, and mechanical devices correctly and efficiently. The instructions shall be consistent with specifications set forth by the Executive Director. For residential buildings, such information shall be contained in a folder or manual which provides all Certificate of Compliance, Certificate of Installation, and Certificate of Verification documentations. This operating information shall be in paper or electronic format. [10-103(b)2]

3. Maintenance information. The builder shall provide to the building owner at occupancy, maintenance information for all features, materials, components, and manufactured devices that require routine maintenance for efficient operation. Required routine maintenance actions shall be clearly stated and incorporated on a readily accessible label. The label may be limited to identifying, by title and/or publication number, the operation and maintenance manual for that particular model and type of feature, material, component or manufactured device. [10-103(b)3]

4. Ventilation information. The builder shall provide to the building owner at occupancy, a description of the quantities of outdoor air that the ventilation system(s) are designed to provide to the building's conditioned space, and instructions for proper operation and maintenance of the ventilation system. [10-103(b)4]

5. All systems, equipment, appliances and building components shall comply with the applicable manufacturing, construction, and installation provisions of Sections 110.0 through 110.11 for newly constructed buildings.

6. Any appliance regulated by the Appliance Efficiency Regulations, Title 20 California Code of Regulations, Section 1601 et seq., may be installed only if the appliance fully complies with Section 1608(a) of those regulations. [110.1(a)]

7. Service water-heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use as listed in Table 3, Chapter 50 of the ASHRAE Handbook, HVAC Applications Volume. [110.3(a)1]

8. On systems that have a total capacity greater than 167,000 Btu/hr, outlets that require higher than service water temperatures as listed in the ASHRAE Handbook, Applications Volume, shall have separate remote heaters, heat exchangers, or boosters to supply the outlet with the higher temperature. [110.3(c)1]

9. Service hot water systems with circulating pumps or with electrical heat trace systems shall be capable of automatically turning off the system. [110.3(c)2]

10. Controls for service water-heating systems shall limit the outlet temperature at public lavatories to 110°F. [110.3(c)3]

11. Unfired service water-heater storage tanks and backup tanks for solar water-heating systems shall have:

- a. External insulation with an installed R-value of at least R-12, or
- b. Internal and external insulation with a combined R-value of at least R-16, or
- c. The heat loss of the tank surface based on an 80°F water-air temperature difference shall be less than 6.5 Btu/hr per square foot. [110.3(c)4]

12. For Nonresidential, high-rise residential, and hotel/motel buildings, space conditioning systems shall meet the efficiency standards specified Section 120.2.

13. Continuously burning pilot light shall be prohibited for the following natural gas system or equipment listed below: [110.5]

- a. Fan-type central furnaces
- b. Household cooking appliances, except for household cooking appliances without an electrical supply voltage connection and in which each pilot consumes less than 150 Btu/hr
- c. Pool heaters
- d. Spa heaters

14. Any pool or spa heating system or equipment shall: [110.4]

- a. A thermal efficiency that complies with the Appliance Efficiency Regulations
- b. Have a readily accessible on-off switch, mounted on the outside of the heater that allows shutting off the heater without adjusting the thermostat setting.
- c. Not utilize electric resistance heating.
- d. Have a cover for outdoor pools or spas that have a heat pump or gas heater.
- e. Have a permanent, easily readable, and weatherproof instruction card that gives instructions for the energy efficient operation of the pool or spa heater and for the proper care of pool or spa water when a cover is used.
- f. Have at least 36 inches of pipe installed between the filter and heater or dedicated suction and return lines, or built-in or built-up connections shall be installed to allow for the future addition of solar heating equipment.
- g. Have directional inlets for the pool or spa that adequately mix the pool water.
- h. A time switch or similar control mechanism shall be installed as part of a pool water circulation control system that will allow all pumps to be set or programmed to run only during the off-peak electric demand period and for the minimum time necessary to maintain the water in the condition required by applicable public health standards.

15. Manufactured fenestration products & exterior doors shall have air infiltration rates not exceeding 0.3 cmf/t2 of window area, 0.3 cmf/t2 of residential door area, 0.3 cmf/t2 of nonresidential single door area, & 1.0 cmf/t2 of nonres double door area. [110.6(a)1]

16. Fenestration products shall be rated in accordance with NFRC 100 for U-factor, NFRC 200 for SHGC, and VT or use the applicable default value. Fenestration products shall have a temporary label for manufactured fenestration products or a label certificate when the Component Modeling Approach is used and for site-built fenestration meeting the requirements of Section 10-111(a)1. [110.6(a)2, 110.6(a)3, 110.6(a)4, 110.6(a)5]

17. Field-fabricated fenestration products and exterior doors, other than unframed glass doors and fire doors, shall be caulked between the fenestration products or exterior door and the building, & shall be weatherstripped. [110.6(b)]

18. Joints, penetrations & openings in building envelope may be potential sources of air leakage shall be caulked, gasketed, weather stripped or otherwise sealed to limit infiltration & exfiltration. [110.7]

19. Insulation shall be certified by Department of Consumer Affairs, Bureau of Home Furnishing and Thermal Insulation that the insulation conductive thermal performance is approved pursuant to the California Code of Regulations, Title 24, Part 12, Chapter 12-13, Article 3, "Standards for Insulating Material." [110.8(a)]

20. Urea formaldehyde foam insulation may only be used in exterior side walls, & requires a four-mil-thick plastic polyethylene vapor barrier between the urea formaldehyde foam insulation & the interior space in all applications. [110.8(b)]

21. Insulating material shall be installed in compliance with the flame spread rating and smoke density requirements of the CBC. [110.8(c)]

22. Insulation installed on an existing space conditioning duct, it shall comply with Section 604.0 of the CMC. [110.8(d)3]

23. External insulation installed on an existing unfired water storage tank or on an existing back-up tank for a solar water-heating system, it shall have an R-value of at least R-12, or the heat loss of the tank surface based on an 80 EF water-air temperature difference shall be less than 6.5 Btu per hour per square foot. . [110.8(d)2] E.

Residential Notes:

- 1. A masonry or factory-built fireplace shall have the following: [150.0(e)1]
  - a. Closeable metal or glass doors covering the entire opening of the firebox;
  - b. A combustion air intake to draw air from the outside of the building directly into the firebox, which is at least six square inches in area and is equipped with a readily accessible, operable, and tight-fitting damper or combustion-air control device (Exception: An outside combustion-air intake is not required if the fireplace will be installed over concrete slab flooring and the fireplace will not be located on an exterior wall.); and
  - c. A flue damper with a readily accessible control. [150.0 (e)C]

2. Heating or cooling systems shall be equipped with a setback thermostat that meet the requirements of Section 110.2(c). [150.0(i)]

- 3. Gas or propane water heaters shall have: [150.0(n)]
  - a. A 120V electrical receptacle that is within 3 feet from the water heater.
  - b. A Category III or IV vent, or a Type B vent with straight pipe.
  - c. Condensate drain that is no more than 2 inches higher than the base.
  - d. A gas supply line with a capacity of at least 200,000 Btu/hr

4. All pumps and pump motors installed shall be listed in the Commission's directory of certified equipment and shall comply with the Appliance Efficiency Regulations. [150.0(p)1,A]

5. The minimum installed weight per square foot of any loose-fill insulation shall conform with the insulation manufacturer's labeled R-value. [150.0 (b)]

6. The minimum depth of concrete-slab floor perimeter insulation shall be 16 inches or the depth of the footing of the building, whichever is less. [150.1(c)(1)(D)]

7. The crawl space shall be covered with a vapor retarder over the entire floor. [150.1(c)1,D]

- 8. Insulations are required for: [150.0(j)2,A]
  - a. All hot water pipes from the heating source to the kitchen fixtures.
  - b. All piping with a nominal diameter of 3/4 inch or larger.
  - c. The first 5 feet (1.5 meters) of hot and cold water pipes from the storage tank.
  - d. All piping associated with a domestic hot water recirculation system.
  - e. Piping from the heating source to storage tank or between tanks.
  - f. Piping buried below grade.

- 9. Insulation shall be provided for water heaters as follows:
  - a. Unfired hot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, shall be externally wrapped with insulation having an installed thermal resistance of R-12 or greater or have internal insulation of at least R-16 and a label on the exterior of the tank showing the insulation R-value. [150.0 (j)1]

- 10. Lighting [150.0(k)]
  - a. Installed luminaires shall be classified as high-efficacy in accordance with TABLE 150.0-A.
  - b. Exhaust fans shall be switched separately from lighting systems.
  - c. Luminaries shall be switched with readily accessible controls that permit the luminaires to be manually switched ON and OFF.
  - d. Lighting installed in attached and detached garages, laundry rooms, and utility rooms, at least one luminaire in each of these spaces shall be controlled by vacancy sensors.
  - e. Dimmers or vacancy sensors shall control all luminaires required to have light sources compliant with Reference Joint Appendix JA8.

- EXCEPTION 1: Luminaires in closets less than 70 square feet.
- EXCEPTION 2: Luminaires in hallways.
- f. A. In a low-rise multifamily residential building where the total interior common area in a single building equals 20 percent or less of the floor area, permanently installed lighting for the interior common areas in that building shall be high efficacy luminaires or controlled by an occupant sensor.
- g. In a low-rise multifamily residential building where the total interior common area in a single building equals more than 20 percent of the floor area, permanently installed lighting in that building shall:
  - i) Comply with the applicable requirements in Sections 110.9, 130.0, 130.1, 140.6 and 141.0; and
  - ii) Lighting installed in corridors and stairwells shall be controlled by occupant sensors that reduce the lighting power in each space by at least 50 percent. The occupant sensors shall be capable of turning the light fully On and Off from all designed paths of ingress and egress.



2019 Low-Rise Residential Mandatory Measures Summary

**NOTE:** Low-rise residential buildings subject to the Energy Standards must comply with all applicable mandatory measures, regardless of the compliance approach used. Review the respective section for more information. \*Exceptions may apply. (01/2020)

Building Envelope Measures:	
§ 110.6(a)1:	<b>Air Leakage.</b> Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 CFM per square foot or less when tested per NFRC-400, ASTM E283 or AIAA/WDMA/CA 1011.5.2/A440-2011.*
§ 110.6(a)5:	<b>Labeling.</b> Fenestration products and exterior doors must have a label meeting the requirements of 10-111(a).
§ 110.6(b):	<b>Field fabricated exterior doors and fenestration products</b> must use U-factors and solar heat gain coefficient (SHGC) values from Tables 110.6.A, 110.6.B, or JA4 for exterior doors. They must be caulked and/or weather-stripped.*
§ 110.7:	<b>Air Leakage.</b> All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be caulked, gasketed, or weather stripped
§ 110.8(a):	<b>Insulation Certification by Manufacturers.</b> Insulation must be certified by the Department of Consumer Affairs, Bureau of Household Goods and Services (BHGS).
§ 110.8(g):	<b>Insulation Requirements for Heated Slab Floors.</b> Heated slab floors must be insulated per the requirements of § 110.8(g).
§ 110.8(h):	<b>Roofing Products Solar Reflectance and Thermal Emittance.</b> The thermal emittance and aged solar reflectance values of the roofing material must meet the requirements of § 110.8(h) and be labeled per §10-113 when the installation of a cool roof is specified on the CFR.
§ 110.8(i):	<b>Radiant Barrier.</b> When required, radiant barriers must have an emittance of 0.05 or less and be certified to the Department of Consumer Affairs.
§ 150.0(a):	<b>Ceiling and Rafter Roof Insulation.</b> Minimum R-22 insulation in wood-frame ceiling; or the weighted average U-factor must not exceed 0.043. Minimum R-19 or weighted average U-factor of 0.054 or less in a rafter roof alteration. Attic access doors must have permanently attached insulation using adhesive or mechanical fasteners. The attic access must be gasketed to prevent air leakage. Insulation must be installed in direct contact with a continuous roof or ceiling which is sealed to limit infiltration and exfiltration as specified in § 110.7, including but not limited to placing insulation either above or below the roof deck or on top of a drawll ceiling.
§ 150.0(b):	<b>Loose-fill Insulation.</b> Loose fill insulation must meet the manufacturer's required density for the labeled R-value.
§ 150.0(c):	<b>Wall Insulation.</b> Minimum R-13 insulation in 2x4 inch wood framing wall or have a U-factor of 0.102 or less, or R-20 in 2x6 inch wood framing or have a U-factor of 0.071 or less. Cripple non-framed assemblies must have an overall assembly U-factor not exceeding 0.102. Masonry walls must meet Tables 150.1-A or B.*
§ 150.0(d):	<b>Raised-floor Insulation.</b> Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor.*
§ 150.0(f):	<b>Slab Edge Insulation.</b> Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material alone without facings, no greater than 0.3 percent, have a water vapor permeance no greater than 0.2 perm per inch; be protected from physical damage and UV light deterioration; and, when installed as part of a heated slab floor, meet the requirements of § 110.8(g).
§ 150.0(g)1:	<b>Vapor Retarder.</b> In climate zones 1 through 16, the earth floor of unvented crawl space must be covered with a Class I or Class II vapor retarder. This requirement also applies to controlled ventilation crawl space for buildings complying with the exception to § 150.0(d).
§ 150.0(g)2:	<b>Vapor Retarder.</b> In climate zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of all insulation in all exterior walls, vented attics, and unvented attics with air-permeable insulation.
§ 150.0(i):	<b>Fenestration Products.</b> Fenestration, including skylights, separating conditioned space from unconditioned space or outdoors must have a maximum U-factor of 0.58, or the weighted average U-factor of all fenestration must not exceed 0.58.*
Fireplaces, Decorative Gas Appliances, and Gas Log Measures:	
§ 110.5(e):	<b>Pilot Light.</b> Continuously burning pilot lights are not allowed for indoor and outdoor fireplaces.
§ 150.0(e)1:	<b>Closable Doors.</b> Masonry or factory-built fireplaces must have a closable metal or glass door covering the entire opening of the firebox.
§ 150.0(e)2:	<b>Combustion Intake.</b> Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square inches in area and is equipped with a readily accessible, operable, and tight-fitting damper or combustion-air control device.*
§ 150.0(e)3:	<b>Flue Damper.</b> Masonry or factory-built fireplaces must have a flue damper with a readily accessible control.*
Space Conditioning, Water Heating, and Plumbing System Measures:	
§ 110.0-§ 110.3:	<b>Certification.</b> Heating, ventilation and air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other regulated appliances must be certified by the manufacturer to the California Energy Commission.
§ 110.2(a):	<b>HVAC Efficiency.</b> Equipment must meet the applicable efficiency requirements in Table 110.2.A through Table 110.2.K.*
§ 110.2(b):	<b>Controls for Heat Pumps with Supplementary Electric Resistance Heaters.</b> Heat pumps with supplementary electric resistance heaters must have controls that prevent supplementary heater operation when the heating load can be met by the heat pump alone, and in which the cut-on temperature for compression heating is higher than the cut-on temperature for supplementary heating, and the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating.*
§ 110.2(c):	<b>Thermostats.</b> All heating or cooling systems not controlled by a central energy management control system (EMCS) must have a setback thermostat.*
§ 110.3(c)4:	<b>Water Heating Recirculation Loops Serving Multiple Dwelling Units.</b> Water heating recirculation loops serving multiple dwelling units must meet the air release valve, backflow prevention, pump priming, pump isolation valve, and recirculation loop connection requirements of § 110.3(c)4.
§ 110.3(c)6:	<b>Isolation Valves.</b> Instantaneous water heaters with an input rating greater than 6.8 kBtu per hour (2 kW) must have isolation valves with hose bibbs or other fittings on both cold and hot water lines to allow for flushing the water heater when the valves are closed.
§ 110.5:	<b>Pilot Lights.</b> Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces; household cooking appliances (except appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu per hour ); and pool and spa heaters.*
§ 150.0(h)1:	<b>Building Cooling and Heating Loads.</b> Heating and/or cooling loads are calculated in accordance with the ASHRAE Handbook, Equipment and Systems Volume, and Fundamentals Volume, the SMACNA Residential Comfort System Installation Standards Manual, or the ACCA Manual J using design conditions specified in § 150.0(h)2.



2019 Low-Rise Residential Mandatory Measures Summary

Requirements for Ventilation and Indoor Air Quality:	
§ 150.0(o)1:	<b>Requirements for Ventilation and Indoor Air Quality.</b> All dwelling units must meet the requirements of ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(o)1.
§ 150.0(o)1C:	<b>Single Family Detached Dwelling Units.</b> Single family detached dwelling units, and attached dwelling units not sharing ceilings or floors with other dwelling units, occupiable spaces, public garages, or commercial spaces must have mechanical ventilation airflow provided at rates determined by ASHRAE 62.2 Sections 4.1.1 and 4.1.2 and as specified in § 150.0(o)1C.
§ 150.0(o)1E:	<b>Multifamily Attached Dwelling Units.</b> Multifamily attached dwelling units must have mechanical ventilation airflow provided at rates in accordance with Equation 150.0-B and must be either a balanced system or continuous supply or continuous exhaust system. If a balanced system is not used, all units in the building must use the same system type and the dwelling-unit envelope leakage must be ≤ 0.3 CFM at 50 Pa (0.2 inch water) per square foot of dwelling unit envelope surface area and verified in accordance with Reference Residential Appendix RA3.8.
§ 150.0(o)1F:	<b>Multifamily Building Central Ventilation Systems.</b> Central ventilation systems that serve multiple dwelling units must be balanced to provide ventilation airflow for each dwelling unit served at a rate equal to or greater than the rate specified by Equation 150.0-B. All unit airflows must be within 20 percent of the unit with the lowest airflow rate as relates to the individual unit's minimum required airflow rate needed for compliance.
§ 150.0(o)1G:	<b>Kitchen Range Hoods.</b> Kitchen range hoods must be rated for sound in accordance with Section 7.2 of ASHRAE 62.2.
§ 150.0(o)2:	<b>Field Verification and Diagnostic Testing.</b> Dwelling unit ventilation airflow must be verified in accordance with Reference Residential Appendix RA3.7. A kitchen range hood must be verified in accordance with Reference Residential Appendix RA3.7.4.3 to confirm it is rated by IHLV to comply with the airflow rates and sound requirements as specified in Sections 5 and 7.2 of ASHRAE 62.2.
Pool and Spa Systems and Equipment Measures:	
§ 110.4(a):	<b>Certification by Manufacturers.</b> Any pool or spa heating system or equipment must be certified to have all of the following: a thermal efficiency that complies with the Appliance Efficiency Regulations, an on-off switch mounted outside of the heater that allows shutting off the heater without adjusting the thermostat setting; a permanent weatherproof plate or card with operating instructions; and must not use electric resistance heating.*
§ 110.4(b)1:	<b>Piping.</b> Any pool or spa heating system or equipment must be installed with at least 36 inches of pipe between the filter and the heater, or dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating.
§ 110.4(b)2:	<b>Covers.</b> Outdoor pools or spas that have a heat pump or gas heater must have a cover.
§ 110.4(b)3:	<b>Directional Inlets and Time Switches for Pools.</b> Pools must have directional inlets that adequately mix the pool water, and a time switch that will allow all pumps to be set or programmed to run only during off-peak electric demand periods.
§ 110.5:	<b>Pilot Light.</b> Natural gas pool and spa heaters must have a continuously burning pilot light.
§ 150.0(p):	<b>Pool Systems and Equipment Installation.</b> Residential pool systems or equipment must meet the specified requirements for pump sizing, flow rate, piping, filters, and valves.*
Lighting Measures:	
§ 110.9:	<b>Lighting Controls and Components.</b> All lighting control devices and systems, ballasts, and luminaires must meet the applicable requirements of § 110.9.*
§ 150.0(k)1A:	<b>Luminaire Efficacy.</b> All installed luminaires must meet the requirements in Table 150.0-A.
§ 150.0(k)1B:	<b>Blank Electrical Boxes.</b> The number of electrical boxes that are more than five feet above the finished floor and do not contain a luminaire or other device must be no greater than the number of bedrooms. These electrical boxes must be served by a dimmer, vacancy sensor control, or fan speed control.
§ 150.0(k)1C:	<b>Recessed Downlight Luminaires in Ceilings.</b> Luminaires recessed into ceilings must meet all of the requirements for: insulation contact (IC) rating; air leakage; sealant or maintenance; and light source as described in § 150.0(k)1C.
§ 150.0(k)1D:	<b>Electronic Ballasts for Fluorescent Lamps.</b> Ballasts for fluorescent lamps rated 13 watts or greater must be electronic and must have an output frequency no less than 20 kHz.
§ 150.0(k)1E:	<b>Night Lights, Step Lights, and Path Lights.</b> Night lights, step lights and path lights are not required to comply with Table 150.0-A or be controlled by vacancy sensors provided they are rated to consume no more than 5 watts of power and emit no more than 150 lumens.
§ 150.0(k)1F:	<b>Lighting Integral to Exhaust Fans.</b> Lighting integral to exhaust fans (except when installed by the manufacturer in kitchen exhaust hoods) must meet the applicable requirements of § 150.0(k)*.
§ 150.0(k)1G:	<b>Screw based luminaires.</b> Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8.*
§ 150.0(k)1H:	<b>Light Sources in Enclosed or Recessed Luminaires.</b> Lamps and other separable light sources that are not compliant with the JA8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(k)1I:	<b>Light Sources in Drawers, Cabinets, and Linen Closets.</b> Light sources internal to drawers, cabinetry or linen closets are not required to comply with Table 150.0-A or be controlled by vacancy sensors provided that they are rated to consume no more than 5 watts of power, emit no more than 150 lumens, and are equipped with controls that automatically turn the lighting off when the drawer, cabinet or linen closet is closed.
§ 150.0(k)2A:	<b>Interior Switches and Controls.</b> All forward phase out dimmers used with LED light sources must comply with NEMA SSL 7A.
§ 150.0(k)2B:	<b>Interior Switches and Controls.</b> Exhaust fans must be controlled separately from lighting systems.*
§ 150.0(k)2C:	<b>Interior Switches and Controls.</b> Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually turned On and Off.*
§ 150.0(k)2D:	<b>Interior Switches and Controls.</b> Controls and equipment must be installed in accordance with manufacturer's instructions.
§ 150.0(k)2E:	<b>Interior Switches and Controls.</b> Controls must not bypass a dimmer, occupant sensor, or vacancy sensor function if the control is installed to comply with § 150.0(k).
§ 150.0(k)2F:	<b>Interior Switches and Controls.</b> Lighting controls must comply with the applicable requirements of § 110.9.



2019 Low-Rise Residential Mandatory Measures Summary

§ 150.0(h)3A:	<b>Clearances.</b> Air conditioner and heat pump outdoor condensing units must have a clearance of at least five feet from the outlet of any dryer
§ 150.0(h)3B:	<b>Liquid Line Drier.</b> Air conditioners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the manufacturer's instructions.
§ 150.0(j)1:	<b>Storage Tank Insulation.</b> Unfired hot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must have a minimum of R-12 external insulation or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank.
§ 150.0(j)2A:	<b>Water Piping, Solar Water-heating System Piping, and Space Conditioning System Lin Insulation.</b> All domestic hot water piping must be insulated as specified in Section 609.11 of the California Plumbing Code. In addition, the following piping conditions must have a minimum insulation wall thickness of one inch or a minimum insulation R-value of 7.7: the first five feet of cold water pipes from the storage tank; all hot water piping with a nominal diameter equal to or greater than 3/4 inch and less than one inch; all hot water piping with a nominal diameter less than 3/4 inch that is associated with a domestic hot water recirculation system, from the heating source to storage tank or between tanks, buried below grade, and from the heating source to kitchen fixtures.*
§ 150.0(j)3:	<b>Insulation Protection.</b> Piping insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind as required by Section 120.3(b). Insulation exposed to weather must be water retardant and protected from UV light (no adhesive tapes). Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space must include, or be protected by, a Class I or Class II vapor retarder. Pipe insulation buried below grade must be installed in a waterproof and non-crushable casing or sleeve.
§ 150.0(n)1:	<b>Gas or Propane Water Heating Systems.</b> Systems using gas or propane water heaters to serve individual dwelling units must include all of the following: A dedicated 125 volt, 20 amp electrical receptacle connected to the electric panel with a 120/240 volt 3 conductor, 10 AWG copper branch circuit, within three feet of the water heater without obstruction. Both ends of the unused conductor must be labeled with the word "space" and be electrically isolated. Have a reserved single pole circuit breaker space in the electrical panel adjacent to the circuit breaker for the branch circuit and labeled with the words "Future 240V Use", a Category III or IV vent, or a Type B vent with straight pipe from the outside termination and the space where the water heater is installed; a condensate drain that is no more than two inches higher than the base of the water heater; and allows natural draining without pump assistance; and a gas supply line with a capacity of at least 200,000 Btu per hour
§ 150.0(n)2:	<b>Recirculating Loops.</b> Recirculating loops serving multiple dwelling units must meet the requirements of § 110.3(c)5.
§ 150.0(n)3:	<b>Solar Water-heating Systems.</b> Solar water-heating systems and collectors must be certified and rated by the Solar Rating and Certification Corporation (SRCC), the International Association of Plumbing and Mechanical Officials, Research and Testing (IAPMO R&T), or by a listing agency that is approved by the Executive Director.
Ducts and Fans Measures:	
§ 110.8(d)3:	<b>Ducts.</b> Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Code (CMC). If a contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets this requirement.
§ 150.0(m)1:	<b>CMC Compliance.</b> All air-distribution system ducts and plenums must meet the requirements of the CMC §§ 601.0, 602.0, 603.0, 604.0, 605.0 and ANSI/SMACNA-005-2006 HVAC Duct Construction Standards Metal and Flexible 3rd Edition. Portions of supply-air and return-air ducts and plenums must be insulated to a minimum installed level of R-6.0 or a minimum installed level of R-4.2 when ducts are entirely in conditioned space as confirmed through field verification and diagnostic testing (RA3.1.4.3.8). Portions of the duct system completely exposed and surrounded by directly conditioned space are not required to be insulated. Connections of metal ducts and inner core of flexible ducts must be mechanically fastened. Openings must be sealed with mastic tape, or other duct-closure system that meets the applicable requirements of UL 181, UL 181A, or UL 181B or aerosol sealant that meets the requirements of UL 723. If mastic or tape is used to seal openings greater than ¼ inch, the combination of mastic and either mesh or tape must be used. Building cavities, support platforms for air handlers, 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 cavities and support platforms must not be compressed to cause reductions in the cross-sectional area.*
§ 150.0(m)2:	<b>Factory-Fabricated Duct Systems.</b> Factory-fabricated duct systems must comply with applicable requirements for duct construction, connections, and closures, joints and seams of duct systems and their components must not be sealed with duct back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands.
§ 150.0(m)3:	<b>Field-Fabricated Duct Systems.</b> Field-fabricated duct systems must comply with applicable requirements for: pressure-sensitive tapes, mastics, sealants, and other requirements specified for duct construction.
§ 150.0(m)7:	<b>Backdraft Damper.</b> Fan systems that exchange air between the conditioned space and outdoors must have backdraft or automatic dampers.
§ 150.0(m)8:	<b>Gravity Ventilating Dampers.</b> Gravity ventilating systems serving conditioned space must have either automatic or readily accessible, manually operated dampers in all openings to the outside, except combustion inlet and outlet air openings and elevator shaft vents.
§ 150.0(m)9:	<b>Protection of Insulation.</b> Insulation must be protected from damage, sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather must be suitable for outdoor service. For example, protected by aluminum, sheet metal, painted canvas, or plastic cover. Cellular foam insulation must be protected as above or painted with a coating that is water retardant and provides shielding from solar radiation.
§ 150.0(m)10:	<b>Porous Inner Core Flex Duct.</b> Porous inner core flex ducts must have a non-porous liner between the inner core and outer vapor barrier.
§ 150.0(m)11:	<b>Duct System Sealing and Leakage Test.</b> When space conditioning systems use forced air duct systems to supply conditioned air to an occupiable space, the ducts must be sealed and duct leakage tested as confirmed through field verification and diagnostic testing, in accordance with § 150.0(m)11 and Reference Residential Appendix RA3.
§ 150.0(m)12:	<b>Air Filtration.</b> Space conditioning systems with ducts exceeding 10 feet and the supply side of ventilation systems must have MERV 13 or equivalent filters. Filters for space conditioning systems must have a two inch depth or can be one inch if sized per Equation 150.0-A. Pressure drops and labeling must meet the requirements in § 150.0(m)12. Filters must be accessible for regular service.*
§ 150.0(m)13:	<b>Space Conditioning System Airflow Rate and Fan Efficacy.</b> Space conditioning systems that use ducts to supply cooling must have a hole for the placement of a static pressure probe, or a permanently installed static pressure probe in the supply plenum. Airflow must be ≥ 350 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≥ 0.45 watts per CFM for gas furnace air handlers and ≤ 0.58 watts per CFM for other. Supply 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.*
Interior Switches and Controls.	
§ 150.0(k)2G:	<b>Interior Switches and Controls.</b> An energy management control system (EMCS) may be used to comply with control requirements if it: provides functionality of the specified control according to § 110.9, meets the Installation Certificate requirements of § 130.4, meets the EMCS requirements of § 130.0(e), and meets all other requirements in § 150.0(k)2.
§ 150.0(k)2H:	<b>Interior Switches and Controls.</b> A multisense programmable controller may be used to comply with dimmer requirements in § 150.0(k) if it provides the functionality of a dimmer according to § 110.9, and complies with all other applicable requirements in § 150.0(k)2.
§ 150.0(k)2I:	<b>Interior Switches and Controls.</b> In bathrooms, garages, laundry rooms, and utility rooms, at least one luminaire in each of these spaces must be controlled by an occupant sensor or an automatic off functionality. If an occupant sensor is installed, it must be initially configured to manual on operation using the manual control required under Section 150.0(k)2C.
§ 150.0(k)2J:	<b>Interior Switches and Controls.</b> Luminaires that are or contain light sources that meet Reference Joint Appendix JA8 requirements for dimming, and that are not controlled by occupancy or vacancy sensors, must have dimming controls.*
§ 150.0(k)2K:	<b>Interior Switches and Controls.</b> Under cabinet lighting must be controlled separately from ceiling-installed lighting systems.
§ 150.0(k)3A:	<b>Residential Outdoor Lighting.</b> For single-family residential buildings, outdoor lighting permanently mounted to a residential building, or to other buildings on the same lot, must meet the requirement in item § 150.0(k)3A (On and Off switch) and the requirements in either § 150.0(k)3Aa (photoelectric and either a motion sensor or automatic time switch control) or § 150.0(k)3Ai (astronomical time clock), or an EMCS.
§ 150.0(k)3B:	<b>Residential Outdoor Lighting.</b> For low-rise residential buildings with four or more dwelling units, outdoor lighting for private patios, entrances, balconies, and porches, and residential parking lots and carports with less than eight vehicles per site must comply with either § 150.0(k)3A or with the applicable requirements in Sections 110.9, 130.0, 130.2, 130.4, 140.7 and 141.0.
§ 150.0(k)3C:	<b>Residential Outdoor Lighting.</b> For low-rise residential buildings with four or more dwelling units, any outdoor lighting for residential parking lots or carports with a total of eight or more vehicles per site and any outdoor lighting not regulated by § 150.0(k)3B or § 150.0(k)3D must comply with the applicable requirements in Sections 110.9, 130.0, 130.2, 130.4, 140.7 and 141.0.
§ 150.0(k)4:	<b>Internally Illuminated address signs.</b> Internally illuminated address



Setnicka Workshop Accessory Building  
166 N. Encinal Ave  
Ojai, CA 93023

Revisions		
No.	Description	Date
1	Plan check corrections	2-8-22

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ON SITE ALL DIMENSIONS PRIOR TO STARTING WORK. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO PROCEEDING.
2. UNLESS OTHERWISE NOTED OR SHOWN, ALL PHASES OF WORK ARE TO CONFORM TO THE MINIMUM STANDARDS OF THE UNIFORM BUILDING CODE (LATEST GOVERNING EDITION), LOCAL BUILDING CODES AND THOSE ASTM SPECIFICATIONS UPON WHICH THE STANDARDS ARE BASED. WHERE CONFLICTS BETWEEN BUILDING CODES AND SPECIFICATIONS OCCUR, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
3. ALL ASTM DESIGNATIONS REFERRED TO ON THESE DRAWINGS SHALL BE THE LATEST ADOPTED OR REVISED SPECIFICATIONS.
4. ALL DIMENSIONS TO TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS.
5. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
6. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, UNLESS OTHERWISE NOTED OR SHOWN. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK TO COMPLETION OF THE PROJECT, AS INDICATED IN THE CONTRACT DOCUMENTS, AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS AND PROCEDURES.
7. DETAILS; CONDITIONS NOT SPECIFICALLY DETAILED SHALL BE CONSTRUCTED THE SAME AS SIMILAR CONDITIONS DETAILED AND/OR INDICATED ON THE PLANS.
8. NAILING; NAILING NOT SHOWN ON THE PLANS SHALL BE IN ACCORDANCE OF GOVERNING BUILDING CODES. (SEE NAILING SCHEDULE.)
9. PROVIDE ALL TEMPORARY BRACING, SHORING AND GUYING TO AVOID EXCESSIVE STRESSES ON STRUCTURAL ELEMENTS, AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING ERECTION.
10. CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARANCE AND EARTHWORK OPERATIONS OR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNTAINS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
11. DO NOT CUT OR TRIM ANY TREES ON THE PROPERTY UNLESS OTHERWISE NOTED OR DIRECTED BY DESIGNER AND OWNER. AVOID FILLING OR CUTTING AROUND EXISTING TREES TO REMAIN. PROTECT THESE TREES WITH BARRIERS DURING CONSTRUCTION.
12. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED ROOF. LOAD SHALL NOT EXCEED DESIGN LIVE LOAD FOR EACH PARTICULAR LEVEL.
13. CONTRACTOR SHALL PROTECT THE ADJOINING PROPERTY DURING EXCAVATION. PROTECTION SHALL BE SUCH THAT ANY EARTH OF THE ADJOINING PROPERTY WILL NOT CAVE-IN OR SETTLE.
14. THE CONTRACTOR SHALL NOTIFY THE "OWNER" OF ANY CONDITION REQUIRING MODIFICATION OR CHANGE, BEFORE PROCEEDING WITH WORK.
15. ALL CONSTRUCTION TO PROVIDE A WATERPROOF, WEATHER TIGHT STRUCTURE. CONTRACTOR SHALL SEAL AND CAULK AS NECESSARY TO ACHIEVE THIS REQUIREMENT.
16. ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN ENGINEER REGISTERED IN THE STATE OF CALIFORNIA.
17. CONTRACTOR SHALL VERIFY IN THE FIELD ALL EXISTING CONDITIONS SHOWN ON THE DRAWINGS PRIOR TO COMMENCEMENT OF WORK.
18. SHEET METAL & FLASHING: PROVIDE AND INSTALL SHEET METAL AND OR COPPER FLASHING AS DETAILED AND REQUIRED TO INSURE WATERTIGHT ASSEMBLY. ALL PIECES SHALL BE FABRICATED IN MAXIMUM PRACTICAL LENGTHS, FREE OF WARPS, BUCKLES AND DENTS AND OTHER DEFECTS. (U.B.C. 1402.2 FLASHING & COUNTERFLASHING: 1508.4 VALLEY FLASHING & 1509, OTHER FLASHING).
19. NO POTABLE WATER MAY BE USED FOR COMPACTION OR DUST CONTROL PURPOSES IN CONSTRUCTION ACTIVITIES WHERE THERE IS A REASONABLE AVAILABLE SOURCE OF RECLAIMED WATER OR OTHER SUB POTABLE WATER APPROVED BY THE VENTURA COUNTY HEALTH DEPARTMENT & APPROPRIATE FOR SUCH USE. ORD 3522, SECTION 6(K).
20. ALL HOSES USED FOR ANY CONSTRUCTION ACTIVITIES SHALL BE EQUIPPED WITH A SHUT OFF NOZZLE. WHEN AN AUTOMATIC SHUT OFF CAN NOT BE PURCHASED OR OTHERWISE OBTAINED FOR THE SIZE & TYPE OF HOSE IN USE, THE NOZZLE SHALL BE AN AUTOMATIC SHUT OFF NOZZLE. ORD 3522 6(K).
21. COPPER WATER LINES SHALL BE TYPE "L" MIN. SHOWERS AND TUB-SHOWER COMBINATIONS SHALL BE PROVIDED WITH INDIVIDUAL CONTROL VALVES OR PRESSURE BALANCE OR THERMOSTATIC MIXING TYPE. PLUMBING FIXTURES AND PLUMBING FITTING SHALL MEET THE FOLLOWING STANDARDS:  
A. WATER CLOSET = 1.28 GALLONS PER FLUSH MAX.  
B. SHOWERHEAD = 1.8 GPM MAX.  
C. LAVATORY FAUCETS = 1.2 GPM MAX.  
D. SINK FAUCETS = 1.5 GPM MAX. TITLE 24, VCBC, UPC
22. FIRE BLOCK STUD WALLS (8" 10" INTERVALS) HORIZONTAL & VERTICAL ENCLOSED AND CONCEALED SPACES, AND AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS, ATTIC AND CHIMNEY CHASE, STAIR STRINGERS, AND SIMILAR PLACES AT CEILING AND FLOOR LEVELS (708.2.1 UBC)
23. SAFETY: THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SAFETY ON THE JOB SITE AND ADHERE TO ALL FEDERAL, STATE, LOCAL, AND O.S.H.A. REGULATIONS.
24. AFTER COMMENCEMENT OF WORK, ANY FAULTS IN CONSTRUCTION DUE IN PART TO ERRORS IN THE CONSTRUCTION DOCUMENTS, SHALL BE CORRECTED BY CONTRACTOR OR SUBCONTRACTOR.
25. ALL HANDRAILS SHALL BE CONTINUOUS THE FULL LENGTH OF THE STAIRS. HANDGRIP PORTION OF ALL HANDRAILS SHALL NOT BE LESS THAN 1-1/4" NOT MORE THAN 2" IN CROSS SECTIONAL DIMENSION, OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE.
26. PROVIDE EMERGENCY EXIT DOOR OR WINDOW FROM BASEMENT AND/OR SLEEPING ROOMS. NET CLEAR WINDOW OPENING AREA SHALL NOT BE LESS THAN 5.7 SQ. FEET (521 SQ. INCHES). MIN. NET WINDOW OPENING HEIGHT DIMENSION, 24" CLEAR; MIN. NET WIDTH DIMENSION, 20" CLEAR. FINISH SILL HEIGHT MAX. 44" ABOVE FLOOR.
27. IN ACCORDANCE WITH PERTINENT ITEMS OF THESE NOTES AND THOSE ITEMS SO INDICATED ON THE DRAWINGS "CAREFULLY" DEMOLISH AND REMOVE FROM THE JOB SITE THOSE ITEMS SCHEDULED TO BE SO DEMOLISHED AND REMOVED
28. USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND THE METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK
29. SURFACE CONDITIONS: EXAMINE THE AREAS AND CONDITIONS UNDER WHICH WORK WILL BE PERFORMED. CORRECT CONDITIONS DETRIMENTAL TO TIMELY & PROPER COMPLETION OF THE WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED
30. DEMOLITION: BY CAREFUL STUDY OF THE DRAWINGS, DETERMINE THE LOCATION AND EXTENT OF SELECTIVE DEMOLITION TO BE PERFORMED
31. SEE GRADING PLAN FOR EXACT LOCATION OF THE NEW RESIDENCE. SEE GRADING PLAN FOR PAD ELEVATION.  
SOILS REPORT NO.: N/A  
SOILS REPORT UPDATE NO.: N/A  
GRADING PERMIT NO.: N/A  
VOLUME OF GRADING EXCAVATION AND FILL: ±50 C.Y.  
EXPANSION INDEX: N/A  
BEARING CAPACITY: 2500 PSF
32. UNLESS INDICATED OTHERWISE, ALL PORTIONS OF THIS PROJECT SHALL BE SUBJECT TO THE REQUIREMENTS OF THE FOLLOWING:  
2019 CALIFORNIA BUILDING CODE  
2019 CALIFORNIA PLUMBING CODE  
2019 CALIFORNIA MECHANICAL CODE  
C.C.R. (CA. CODE OF REG.) TITLE 19 AND 24  
2019 AMERICANS WITH DISABILITIES ACT  
2019 CALIFORNIA ELECTRICAL CODE  
ALL OTHER APPLICABLE CODES, REGULATIONS AND ORDINANCES

SCOPE OF WORK:  
new, detached 458 sq. ft. habitable single story workshop accessory building

ZONING DATA:  
APN 0170144090  
Lot Size 7,500 SF  
Zoning R-1  
High Fire Zone No  
Fire Sprinklers Yes  
Type of Construction V-B  
Number of Stories 1  
Number of Bedrooms 0  
Number of Bathrooms 1/2  
Setbacks: Front- 20', rear 6', sides 5'  
Occupancy Group R-3  
Soils Report None- see below  
Expansion Index 91-130

HFH = NO  
Sprinklers = YES  
E.I. = 91-130

Notes:  
1. Waiver of soils report allowed per approved "Foundation and Soils Investigation Request" by Ventura County Building and Safety Office

BUILDING DATA:  
Conditioned Area: 458 SF

PROJECT DIRECTORY:  
Owner: Jacob and Keri Setnicka  
166 N. Encinal Ave  
Ojai, CA 93023

Structural Design:  
Laima Reeder  
Oxnard, CA 93035  
805 985-1700

SHEET INDEX

- ARCHITECTURAL  
1 Title Sheet  
2 Site Plan  
3 Proposed Floor Plan, Elevations/Sections  
4 Roof Plan, Electrical Plan
- STRUCTURAL  
SO.1 Structural Notes  
SO.2 Typical Details  
S-1 Foundation Plan  
S-2 Framing Plan

UTILITY COMPANIES

GAS Southern California Gas  
PO BOX 1626  
MONTEREY PARK CA 91754-8626

ELECTRIC Southern California Edison Co  
10060 Telegraph Road  
Ventura, CA 93003

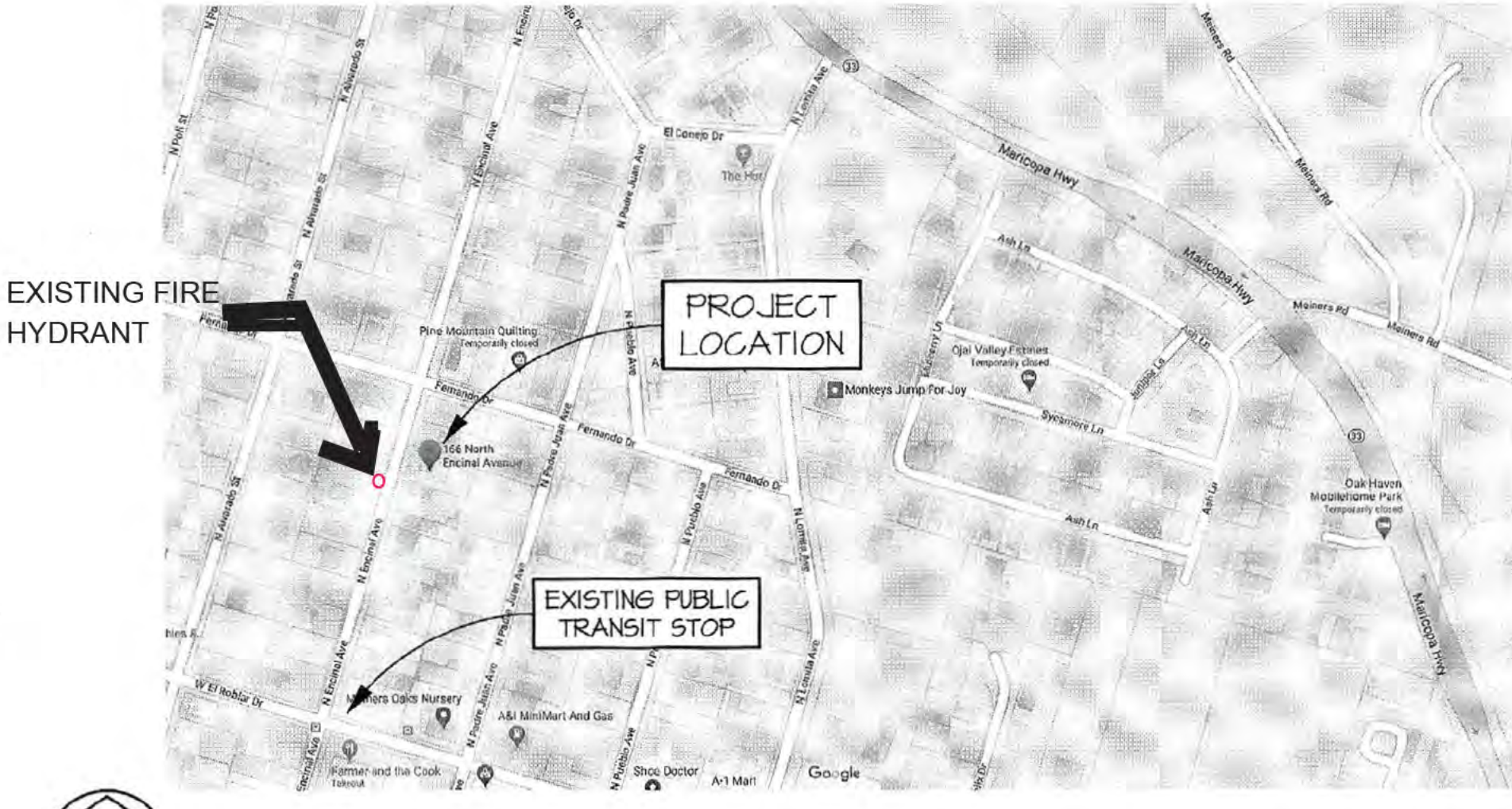
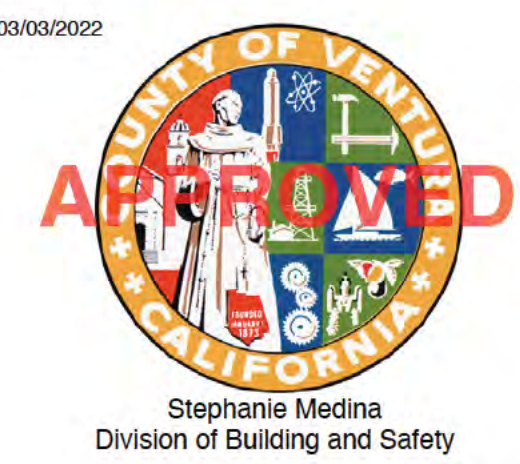
TELECOM Pacific Telephone Co.  
2459 Palma Drive  
Ventura, CA 93003

SEWER OVSD  
1072 Tico Road  
Ojai, CA 93023

WATER Meiners Oaks Water  
202 W. El Roblar Dr.  
Ojai, CA 93023

ADDITIONAL NOTES

The discharge of pollutants to any storm drainage system is prohibited per the Ventura Countywide Municipal Storm Water NPDES Permit No. CAS 5004002. No solid waste, petroleum byproducts, soil particulate, construction waste materials, or wastewater generated on the construction site or by construction activities shall be placed, conveyed, or discharged into the street, gutter, or storm drain system.



LOCATION MAP  
APPROXIMATE SCALE: 1" = 300'

APN: 017-0-144-090



TITLE SHEET  
C21-001401

PROPOSED CONSTRUCTION

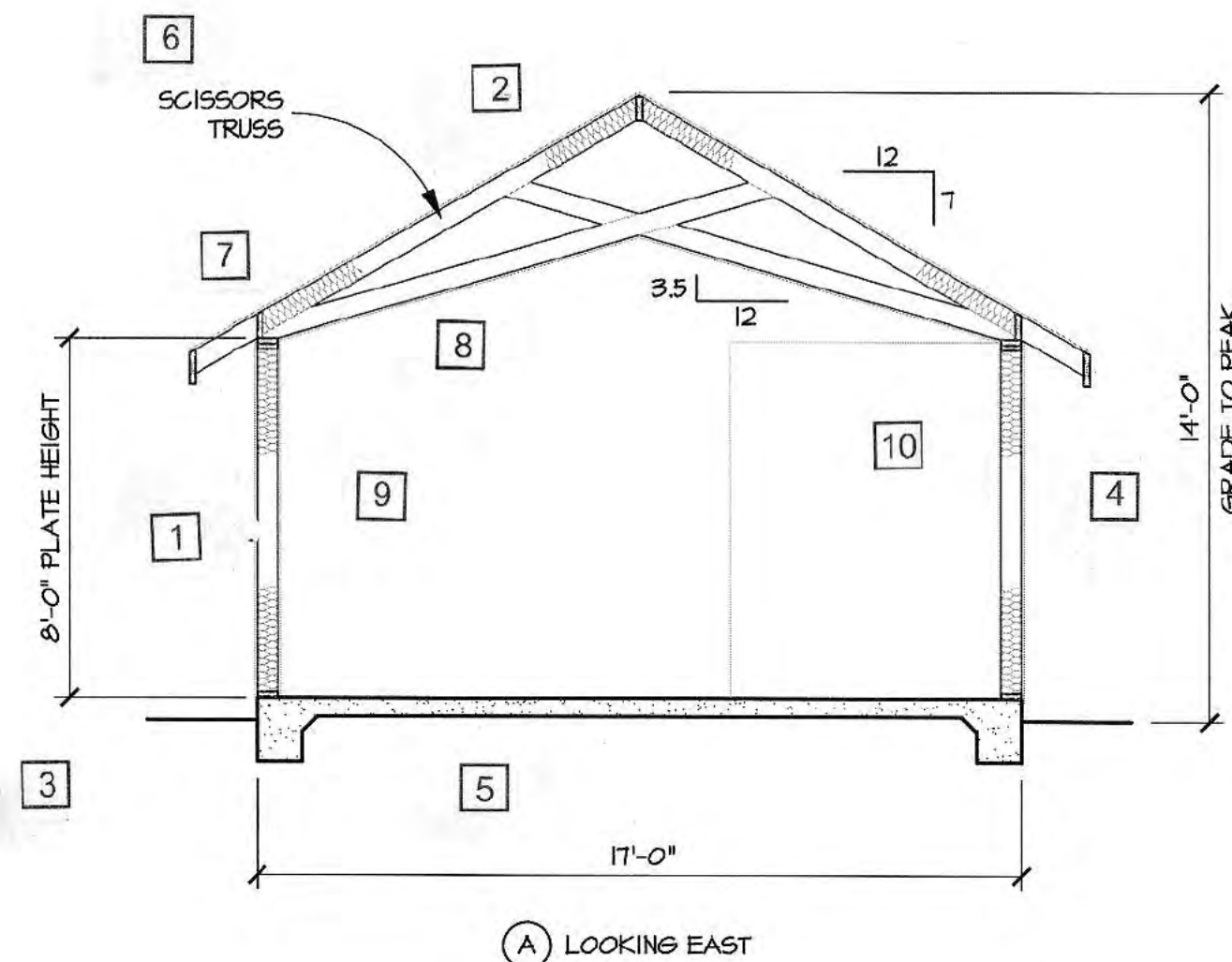
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CHECKED  
DATE Nov.-10, 2021  
SCALE AS NOTED  
JOB NO.  
SHEET

1

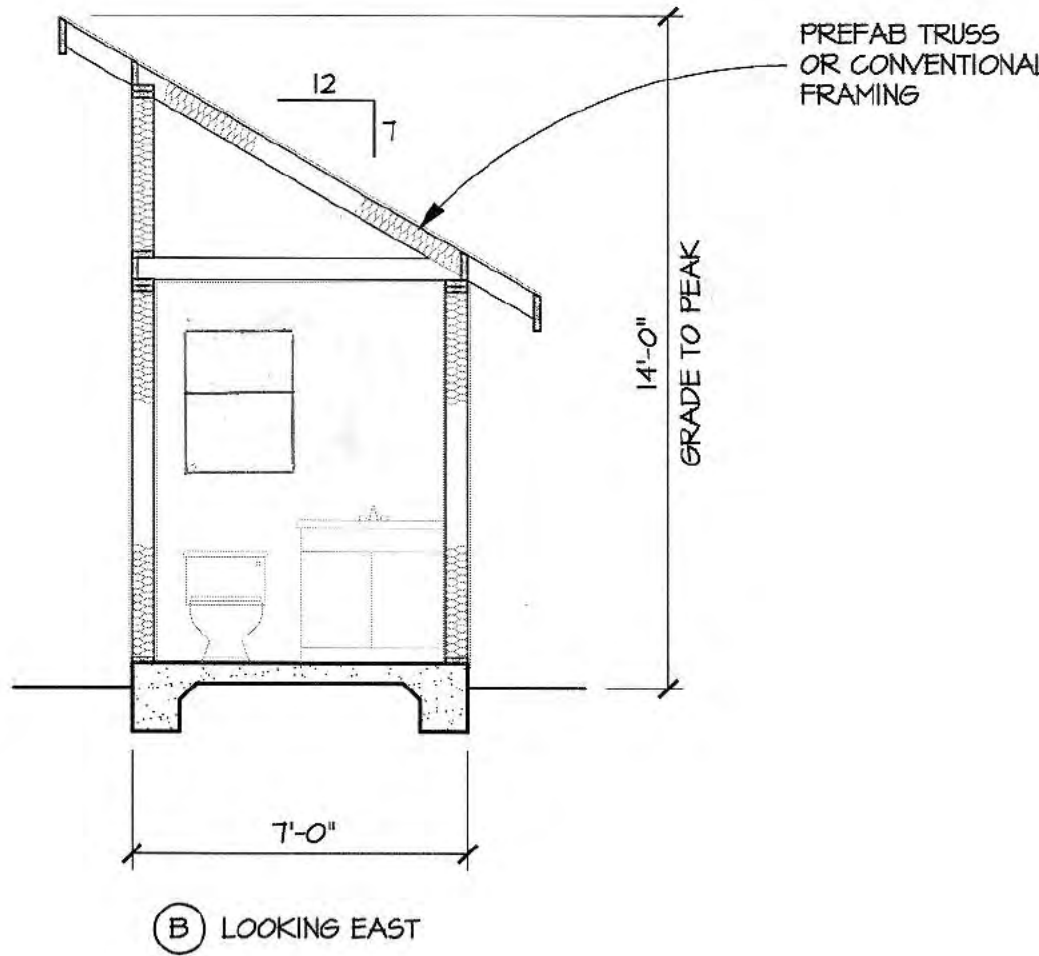


DRAWN <b>CMS</b>
CHECKED
DATE
SCALE
<b>AS NOTED</b>
JOB NO.
—
SHEET
<b>2</b>





(A) LOOKING EAST



(B) LOOKING EAST

SECTION KEY NOTES

1. Board and Batten siding exterior walls, horizontal siding in gable ends.
2. Class A Fire rated asphalt shingles
3. Grading to be sloped away from building
4. Wood trim around door and windows
5. Tile over concrete slab
6. Truss per structural drawings
7. Ceiling joists per structural drawings
8. Insulation- Ceiling: R-38 Batt; see Title 24
9. Insulation- Walls: R-21 Batt; see Title 24
10. 1/2" drywall on ceiling, wall; water resistant drywall in sink, bathroom as typical.

SECTIONS

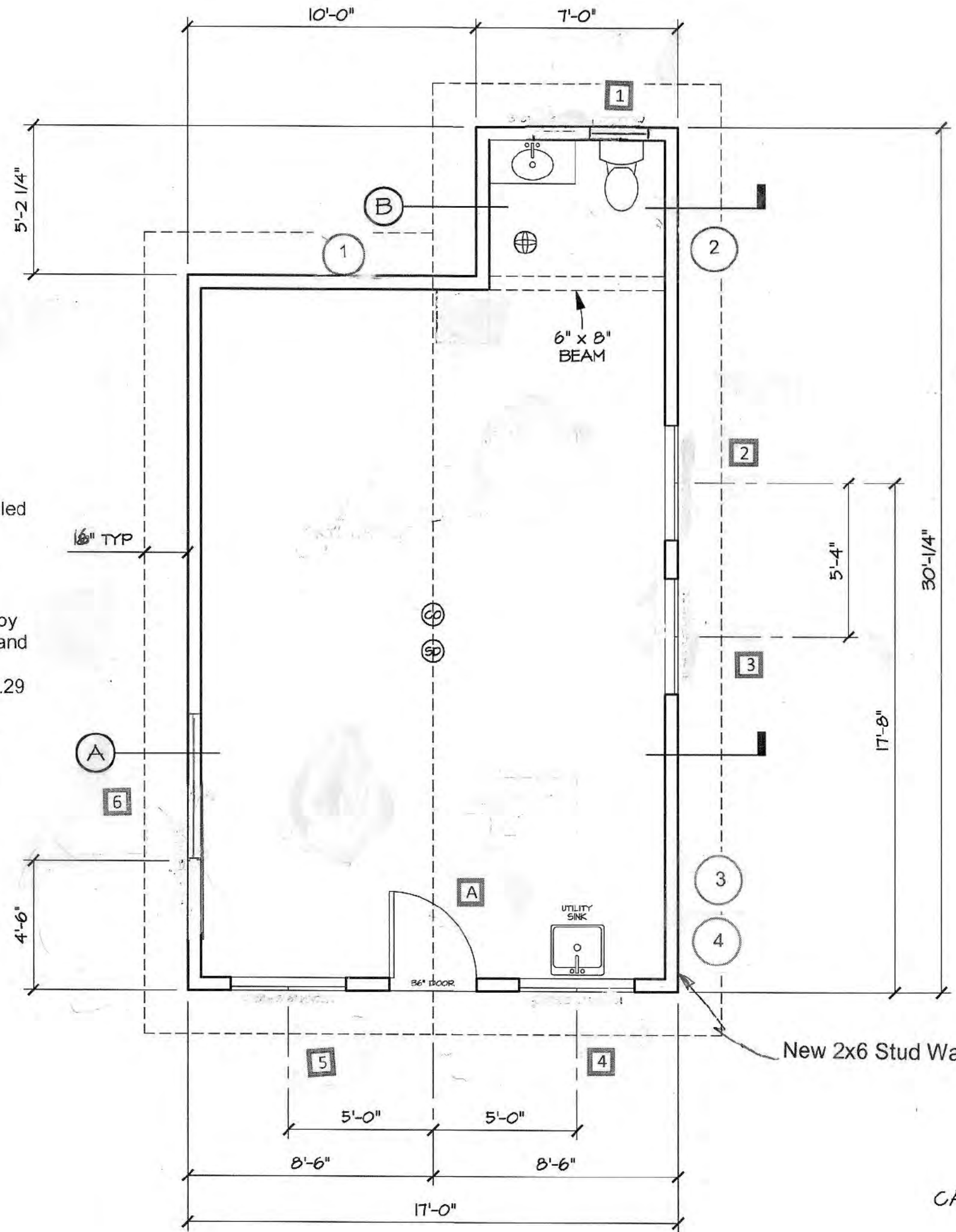
SCALE: 1/4" = 1'-0"



FLOOR PLAN

NOTE: ALL WALL DIMENSIONS TO FACE OF STUD

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



- 1 Mini Split Ductless A/C- Heat Pump
- 2 Tankless Water Heater
- 3 200 AMP Service Pane
- 4 New Gas Line and Shut Off

WINDOW SCHEDULE

Size	Style	Material
1 2'0" x 3'0"	single hung	Vinyl- Energy Star Rated
2 4'0" x 1'6"	slider	Vinyl- Energy Star Rated
3 4'0" x 1'x6"	slider	Vinyl- Energy Star Rated
4 4'0" x 3'6"	single hung	Vinyl- Energy Star Rated
5 4'0" x 3'6"	single hung	Vinyl- Energy Star Rated
6 4'0" x 1'x6"	slider	Vinyl- Energy Star Rated

DOOR SCHEDULE

Mark	Size	Material
A	3'0" x 6'8" x 1 3/8"	Fiberglass- Exterior

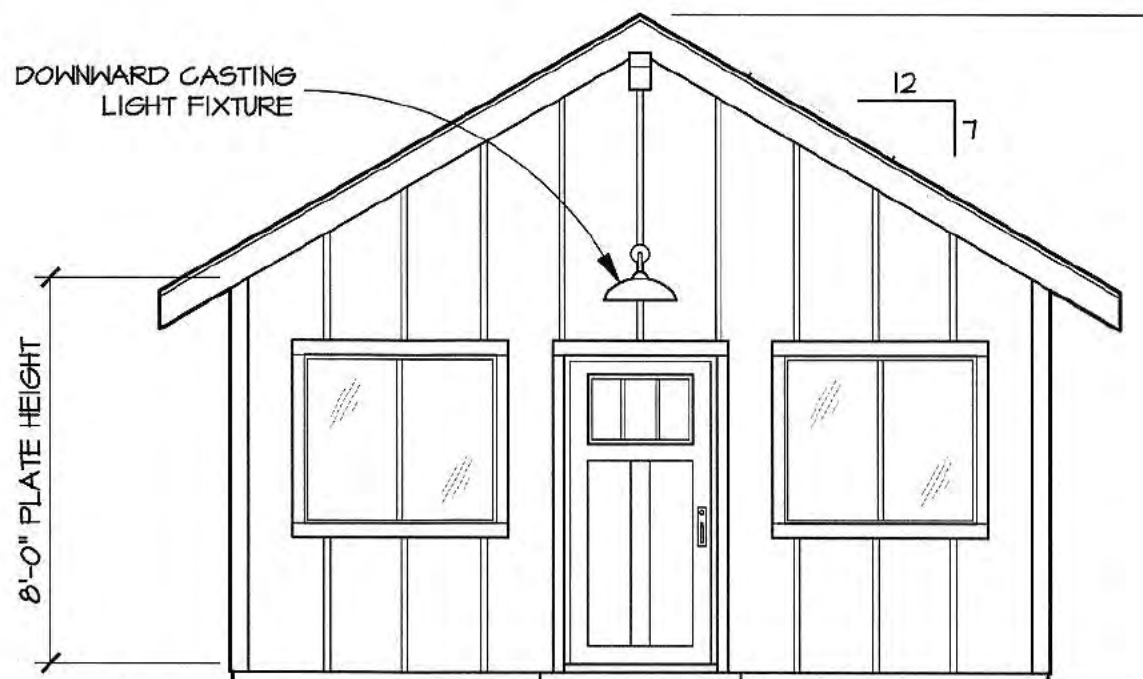
- SMOKE DETECTOR (SD)  
CARBON MONOXIDE ALARM (CO)  
BATHROOM FAN (BF)

New 2x6 Stud Wall Construction-Typical

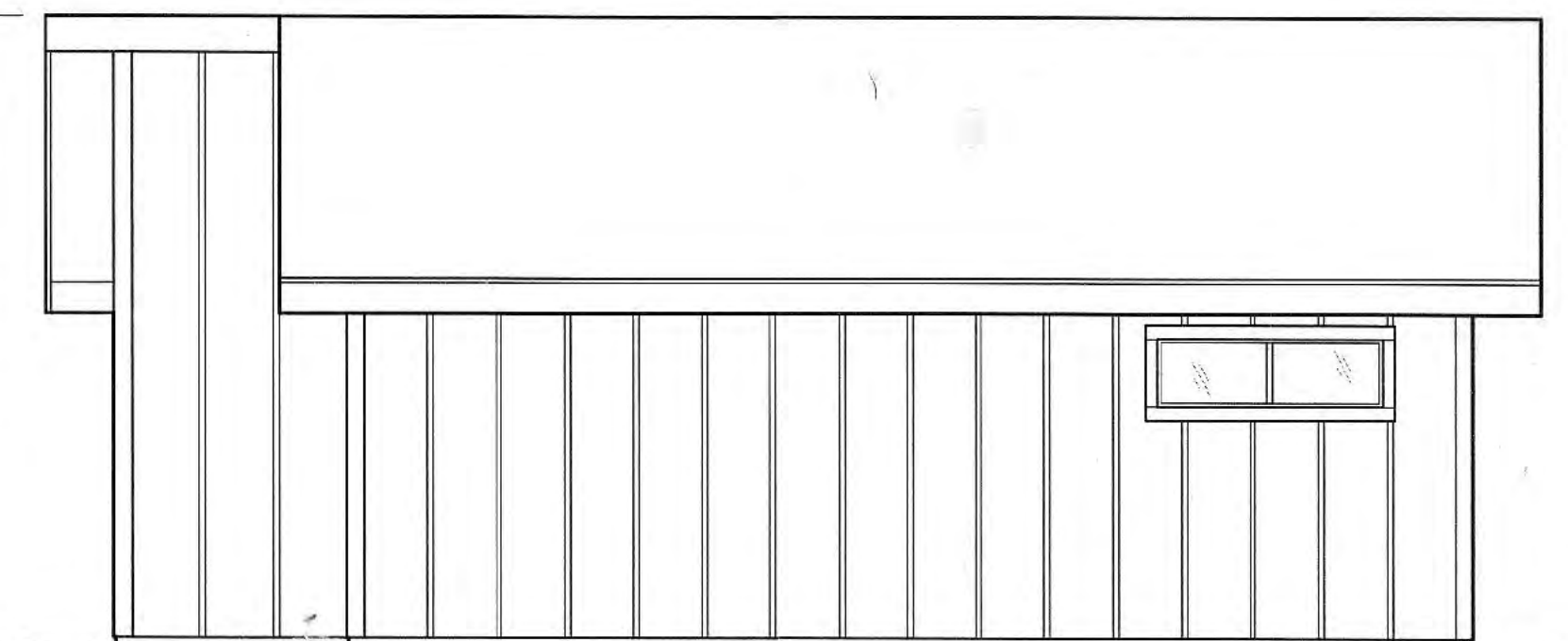


ELEVATION GENERAL NOTES

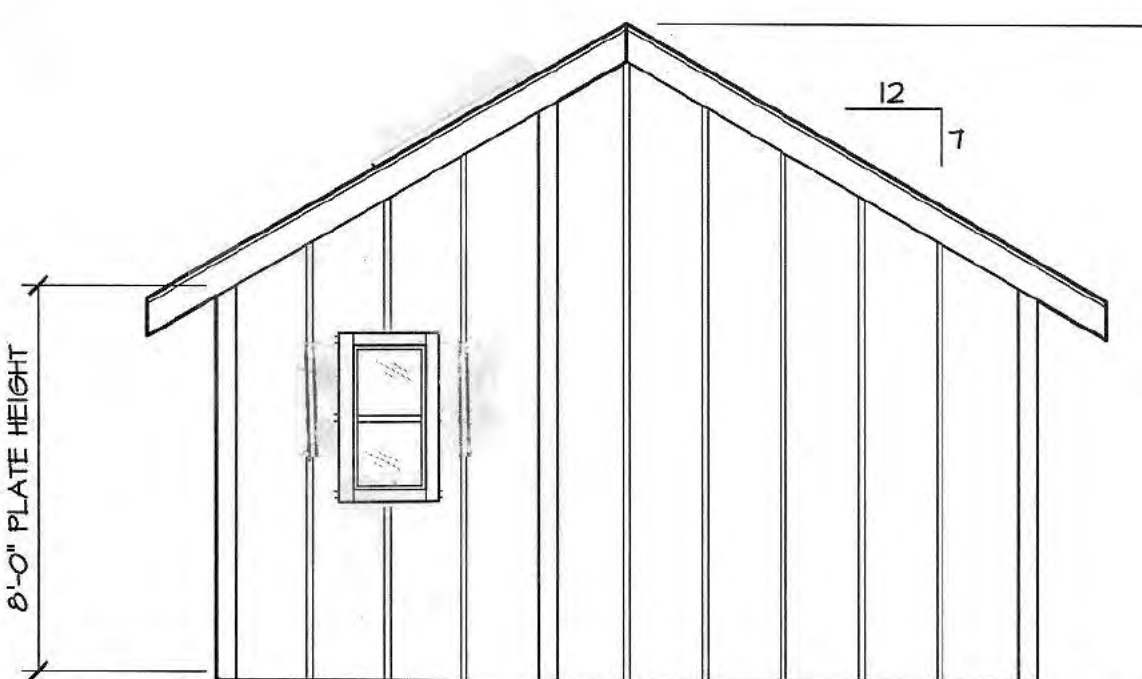
1. Board and Batten siding exterior walls, horizontal siding in gable ends
2. Class A Fire rated asphalt shingles
3. Grading to be sloped away from building
4. Wood trim around door and windows



WEST ELEVATION  
LOOKING EAST



NORTH ELEVATION  
LOOKING SOUTH



EAST ELEVATION  
LOOKING WEST



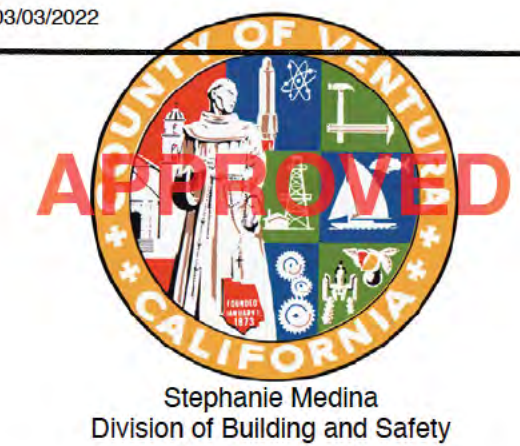
SOUTH ELEVATION  
LOOKING NORTH

ELEVATIONS

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



This set of plans and specifications MUST be kept on the job at all times and it is unlawful to make any changes or alterations on same without written permission from the Building Inspection Dept., County of Ventura. The stamping of this plan and specifications SHALL NOT be held to permit or to be an approval or the violation of any provisions of any County Ordinance of State Law.



Revisions		
No.	Description	Date

APN:  
017-0-144-090



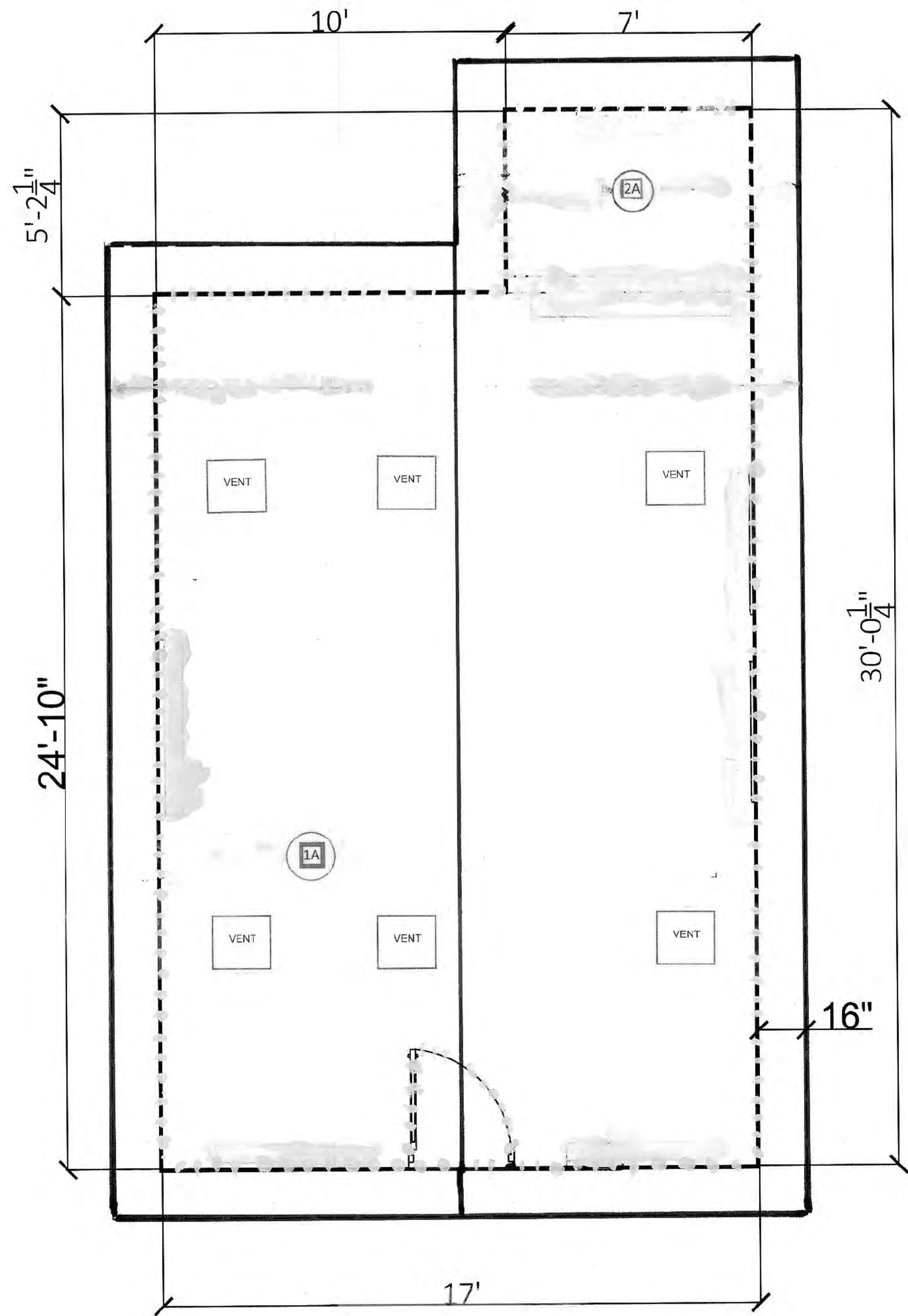
FLOOR PLANS  
ELEVATIONS  
SECTIONS  
C21-001401

PROPOSED CONSTRUCTION

DRAWN CMS
CHECKED
DATE
SCALE AS NOTED
JOB NO.
SHEET

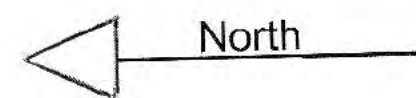
3





Roof Plan

Scale: 3/8" = 1'-0"

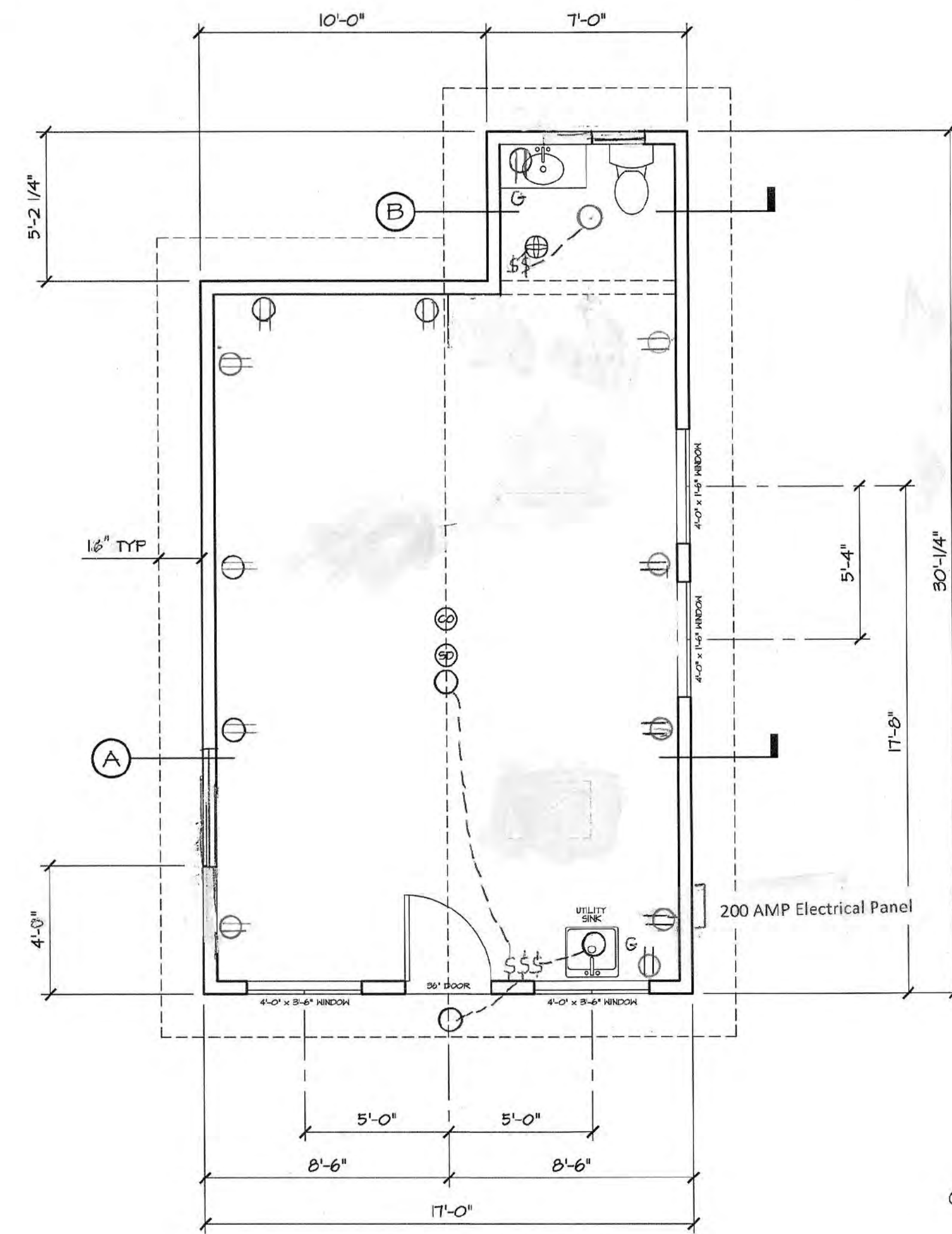


- GENERAL NOTES**
1. New Class A shingle roof
  2. O'Hagen Standard Roof Vents
  3. Gutters and downspouts provided

- Ventilation**
1. Mandatory minimum attic ventilation area is 1/300 of the area of the space ventilated for all enclosed rafter spaces. Class I or II vapor retarder is installed on the warm-in-winter side of the ceiling. At least 50% of the required ventilation must be a minimum of three feet above the eave.
  2. Provide cross ventilation for each space between rafter openings and have a minimum opening of 1/16" and max 1/4". Minimum of 1" air space shall be provide between the insulation and the roof sheathing.

LIGHT TUBE SCHEDULE

Mark	Size	
1A	14" Dia.	Velux Sun Tube
2A	10" Dia.	Velux Sun Tube



- ELECTRICAL GENERAL NOTES**
1. All receptacle to be A.F.I. unless specified as G.F.I.
  2. Provide bonding grounding electrode conductor per CEC Table 310.15.
  3. This plan is not for construction; it is for design purposes only. This is a preliminary layout.
  4. All 120v, 15 and 20 amp supplying outlets will be protected by a listed arc-fault circuit interrupter. Lighting circuits in bathroom will be arc fault protected as well.
  5. Outlets adjacent to sink to be G.F.I. protected
  6. Outlets will be tamper resistant.

- Duplex Outlet
- GFI Outlet
- Single Pole Switch
- Double Pole Switch
- Triple Pole Switch
- SMOKE DETECTOR
- CARBON MONOXIDE ALARM
- BATHROOM FAN



**ELECTRICAL PLAN** NOTE: ALL WALL DIMENSIONS TO FACE OF STUD

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



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03/03/2022



Revisions		
No.	Description	Date

APN:  
017-0-144-090



Roof Plan  
ELECTRICAL PLAN  
C21-001401

PROPOSED CONSTRUCTION

DRAWN
CHECKED
DATE
SCALE
AS NOTED
JOB NO.
SHEET



Setnicka Workshop Accessory Building  
166 N. Encinal Ave  
Ojai, CA 93023

Revisions		
No.	Description	Date
1	Plan check corrections	2-8-22

APN: 017-0-144-090



TITLE SHEET  
C21-001401

PROPOSED CONSTRUCTION

DRAWN LR and Mk  
CHECKED  
DATE Nov.-10, 2021  
SCALE AS NOTED  
JOB NO.  
SHEET  
1  
Page 40 of 82

GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY ON SITE ALL DIMENSIONS PRIOR TO STARTING WORK. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO PROCEEDING.
- UNLESS OTHERWISE NOTED OR SHOWN, ALL PHASES OF WORK ARE TO CONFORM TO THE MINIMUM STANDARDS OF THE UNIFORM BUILDING CODE (LATEST GOVERNING EDITION), LOCAL BUILDING CODES AND THOSE ASTM SPECIFICATIONS UPON WHICH THE STANDARDS ARE BASED. WHERE CONFLICTS BETWEEN BUILDING CODES AND SPECIFICATIONS OCCUR, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
- ALL ASTM DESIGNATIONS REFERRED TO ON THESE DRAWINGS SHALL BE THE LATEST ADOPTED OR REVISED SPECIFICATIONS.
- ALL DIMENSIONS TO TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS.
- NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, UNLESS OTHERWISE NOTED OR SHOWN. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK TO COMPLETION OF THE PROJECT, AS INDICATED IN THE CONTRACT DOCUMENTS, AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS AND PROCEDURES.
- DETAILS; CONDITIONS NOT SPECIFICALLY DETAILED SHALL BE CONSTRUCTED THE SAME AS SIMILAR CONDITIONS DETAILED AND/OR INDICATED ON THE PLANS.
- NAILING; NAILING NOT SHOWN ON THE PLANS SHALL BE IN ACCORDANCE OF GOVERNING BUILDING CODES. (SEE NAILING SCHEDULE.)
- PROVIDE ALL TEMPORARY BRACING, SHORING AND GUYING TO AVOID EXCESSIVE STRESSES ON STRUCTURAL ELEMENTS, AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING ERECTION.
- CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARANCE AND EARTHWORK OPERATIONS OR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS SEPTIC TANKS, CISTERNS, FOUNTAINS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- DO NOT CUT OR TRIM ANY TREES ON THE PROPERTY UNLESS OTHERWISE NOTED OR DIRECTED BY DESIGNER AND OWNER. AVOID FILLING OR CUTTING AROUND EXISTING TREES TO REMAIN. PROTECT THESE TREES WITH BARRIERS DURING CONSTRUCTION.
- CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED ROOF. LOAD SHALL NOT EXCEED DESIGN LIVE LOAD FOR EACH PARTICULAR LEVEL.
- CONTRACTOR SHALL PROTECT THE ADJOINING PROPERTY DURING EXCAVATION. PROTECTION SHALL BE SUCH THAT ANY EARTH OF THE ADJOINING PROPERTY WILL NOT CAVE-IN OR SETTLE.
- THE CONTRACTOR SHALL NOTIFY THE "OWNER" OF ANY CONDITION REQUIRING MODIFICATION OR CHANGE, BEFORE PROCEEDING WITH WORK.
- ALL CONSTRUCTION TO PROVIDE A WATERPROOF, WEATHER TIGHT STRUCTURE. CONTRACTOR SHALL SEAL AND CAULK AS NECESSARY TO ACHIEVE THIS REQUIREMENT.
- ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN ENGINEER REGISTERED IN THE STATE OF CALIFORNIA.
- CONTRACTOR SHALL VERIFY IN THE FIELD ALL EXISTING CONDITIONS SHOWN ON THE DRAWINGS PRIOR TO COMMENCEMENT OF WORK.
- SHEET METAL & FLASHING: PROVIDE AND INSTALL SHEET METAL AND OR COPPER FLASHING AS DETAILED AND REQUIRED TO INSURE WATERTIGHT ASSEMBLY. ALL PIECES SHALL BE FABRICATED IN MAXIMUM PRACTICAL LENGTHS, FREE OF WARPS, BUCKLES AND DENTS AND OTHER DEFECTS. (U.B.C. 1402.2 FLASHING & COUNTERFLASHING: 1508.4 VALLEY FLASHING & 1509, OTHER FLASHING).
- NO POTABLE WATER MAY BE USED FOR COMPACTION OR DUST CONTROL PURPOSES IN CONSTRUCTION ACTIVITIES WHERE THERE IS A REASONABLE AVAILABLE SOURCE OF RECLAIMED WATER OR OTHER SUB POTABLE WATER APPROVED BY THE VENTURA COUNTY HEALTH DEPARTMENT & APPROPRIATE FOR SUCH USE. ORD 3522, SECTION 6(K).
- ALL HOSES USED FOR ANY CONSTRUCTION ACTIVITIES SHALL BE EQUIPPED WITH A SHUT OFF NOZZLE. WHEN AN AUTOMATIC SHUT OFF CAN NOT BE PURCHASED OR OTHERWISE OBTAINED FOR THE SIZE & TYPE OF HOSE IN USE, THE NOZZLE SHALL BE AN AUTOMATIC SHUT OFF NOZZLE. ORD 3522 6(K).
- COPPER WATER LINES SHALL BE TYPE "L" MIN. SHOWERS AND TUB-SHOWER COMBINATIONS SHALL BE PROVIDED WITH INDIVIDUAL CONTROL VALVES OR THE PRESSURE BALANCE OR THERMOSTATIC MIXING TYPE. PLUMBING FIXTURES AND PLUMBING FITTING SHALL MEET THE FOLLOWING STANDARDS:  
A. WATER CLOSET = 1.28 GALLONS PER FLUSH MAX.  
B. SHOWERHEAD = 1.8 GPM MAX.  
C. LAVATORY FAUCETS = 1.2 GPM MAX.  
D. SINK FAUCETS = 1.5 GPM MAX. TITLE 24, V.C.B.C. UPC
- FIRE BLOCK STUD WALLS (8" 10" INTERVALS) HORIZONTAL & VERTICAL ENCLOSED AND CONCEALED SPACES, AND AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS, ATTIC AND CHIMNEY CHASE, STAIR STRINGERS, AND SIMILAR PLACES AT CEILING AND FLOOR LEVELS (708.2.1 UBC)
- SAFETY: THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SAFETY ON THE JOB SITE AND ADHERE TO ALL FEDERAL, STATE, LOCAL, AND O.S.H.A. REGULATIONS.
- AFTER COMMENCEMENT OF WORK, ANY FAULTS IN CONSTRUCTION DUE IN PART TO ERRORS IN THE CONSTRUCTION DOCUMENTS, SHALL BE CORRECTED BY CONTRACTOR OR SUBCONTRACTOR.
- ALL HANDRAILS SHALL BE CONTINUOUS THE FULL LENGTH OF THE STAIRS. HANDGRIP PORTION OF ALL HANDRAILS SHALL NOT BE LESS THAN 1-1/4" NOT MORE THAN 2" IN CROSS SECTIONAL DIMENSION, OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE.
- PROVIDE EMERGENCY EXIT DOOR OR WINDOW FROM BASEMENT AND/OR SLEEPING ROOMS. NET CLEAR WINDOW OPENING AREA SHALL NOT BE LESS THAN 5.7 SQ. FEET (821 SQ. INCHES). MIN. NET WINDOW OPENING HEIGHT DIMENSION, 24" CLEAR; MIN. NET WIDTH DIMENSION, 20" CLEAR. FINISH SILL HEIGHT MAX. 44" ABOVE FLOOR.
- IN ACCORDANCE WITH PERTINENT ITEMS OF THESE NOTES AND THOSE ITEMS SO INDICATED ON THE DRAWINGS "CAREFULLY" DEMOLISH AND REMOVE FROM THE JOB SITE THOSE ITEMS SCHEDULED TO BE SO DEMOLISHED AND REMOVED
- USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND THE METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK
- SURFACE CONDITIONS: EXAMINE THE AREAS AND CONDITIONS UNDER WHICH WORK WILL BE PERFORMED. CORRECT CONDITIONS DETRIMENTAL TO TIMELY & PROPER COMPLETION OF THE WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED
- DEMOLITION: BY CAREFUL STUDY OF THE DRAWINGS, DETERMINE THE LOCATION AND EXTENT OF SELECTIVE DEMOLITION TO BE PERFORMED
- SEE GRADING PLAN FOR EXACT LOCATION OF THE NEW RESIDENCE. SEE GRADING PLAN FOR PAD ELEVATION.  
SOILS REPORT NO.: N/A  
SOILS REPORT UPDATE NO.: N/A  
GRADING PERMIT NO.: N/A  
VOLUME OF GRADING EXCAVATION AND FILL: +50 C.Y.  
EXPANSION INDEX: N/A  
BEARING CAPACITY: 2500 PSF
- UNLESS INDICATED OTHERWISE, ALL PORTIONS OF THIS PROJECT SHALL BE SUBJECT TO THE REQUIREMENTS OF THE FOLLOWING:  
2019 CALIFORNIA BUILDING CODE  
2019 CALIFORNIA PLUMBING CODE  
2019 CALIFORNIA MECHANICAL CODE  
C.C.R. (CA. CODE OF REG.) TITLE 19 AND 24  
2019 AMERICANS WITH DISABILITIES ACT  
2019 CALIFORNIA ELECTRICAL CODE  
ALL OTHER APPLICABLE CODES, REGULATIONS AND ORDINANCES

PROJECT DATA

**SCOPE OF WORK:**  
new, detached 458 sq. ft. habitable single story workshop accessory building

**ZONING DATA:**  
APN 0170144090  
Lot Size 7,500 SF  
Zoning R-1  
High Fire Zone No  
Fire Sprinklers Yes  
Type of Construction V-B  
Number of Stories 1  
Number of Bedrooms 0  
Number of Bathrooms 1/2  
Setbacks: Front- 20', rear 6', sides 5'  
Occupancy Group R-3  
Soils Report None- see below  
Expansion Index 91-130

**HFH = NO  
Sprinklers = YES  
E.I. = 91-130**

**Notes:**  
1. Waiver of soils report allowed per approved "Foundation and Soils Investigation Request" by Ventura County Building and Safety Office

**BUILDING DATA:**  
Conditioned Area: 458 SF

**PROJECT DIRECTORY:**  
Owner: Jacob and Keri Setnicka  
166 N. Encinal Ave  
Ojai, CA 93023

**Structural Design:**  
Laima Reeder  
Oxnard, CA 93035  
805 985-1700

SHEET INDEX

- ARCHITECTURAL**  
1 Title Sheet  
2 Site Plan  
3 Proposed Floor Plan, Elevations/Sections  
4 Roof Plan, Electrical Plan
- STRUCTURAL**  
SO.1 Structural Notes  
SO.2 Typical Details  
S-1 Foundation Plan  
S-2 Framing Plan

UTILITY COMPANIES

**GAS** Southern California Gas  
PO BOX 1626  
MONTEREY PARK CA 91754-8626

**ELECTRIC** Southern California Edison Co  
10060 Telegraph Road  
Ventura, CA 93003

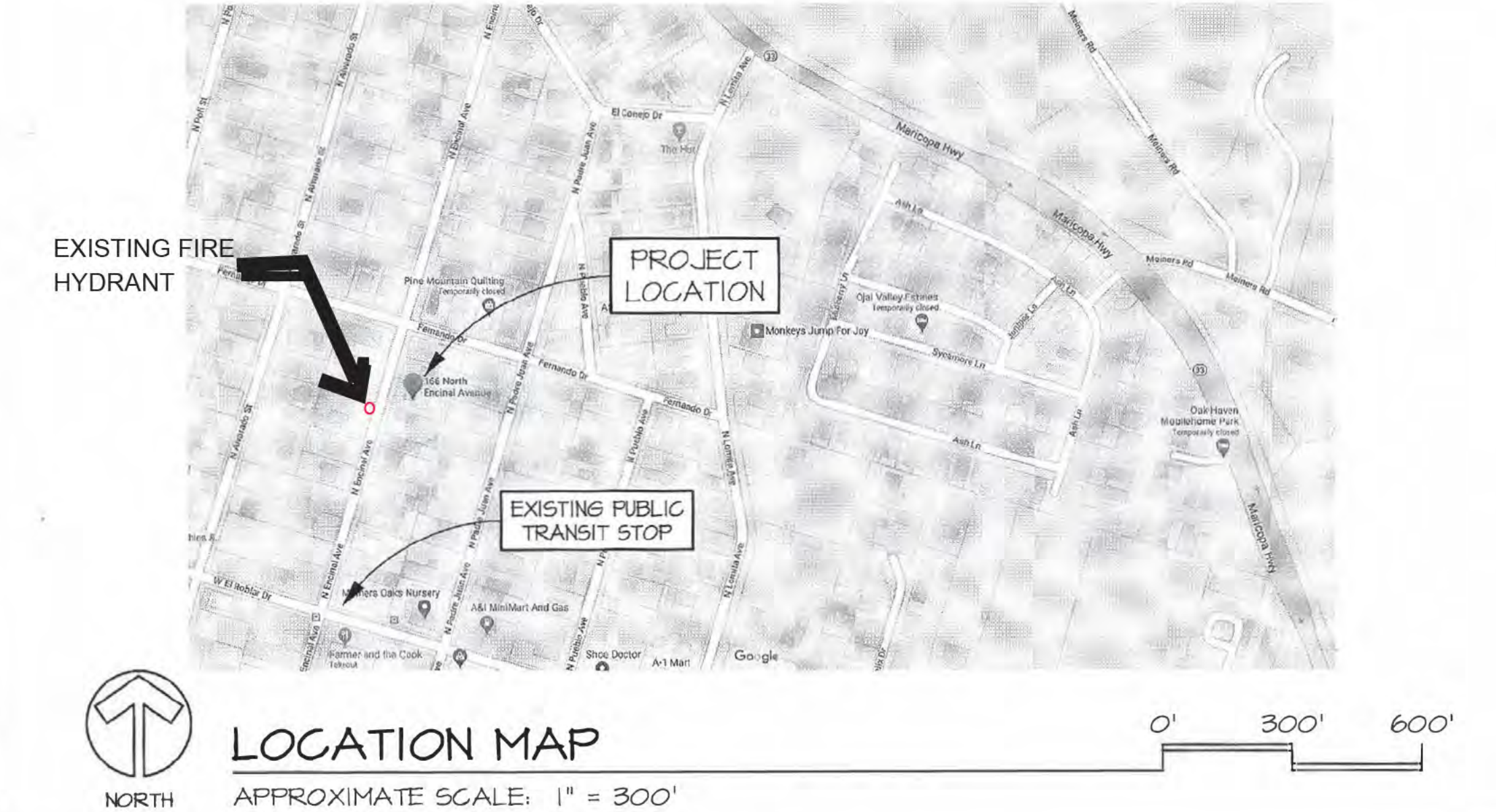
**TELECOM** Pacific Telephone Co.  
2459 Palma Drive  
Ventura, CA 93003

**SEWER** OVSD  
1072 Tico Road  
Ojai, CA 93023

**WATER** Meiners Oaks Water  
202 W. El Roblar Dr.  
Ojai, CA 93023

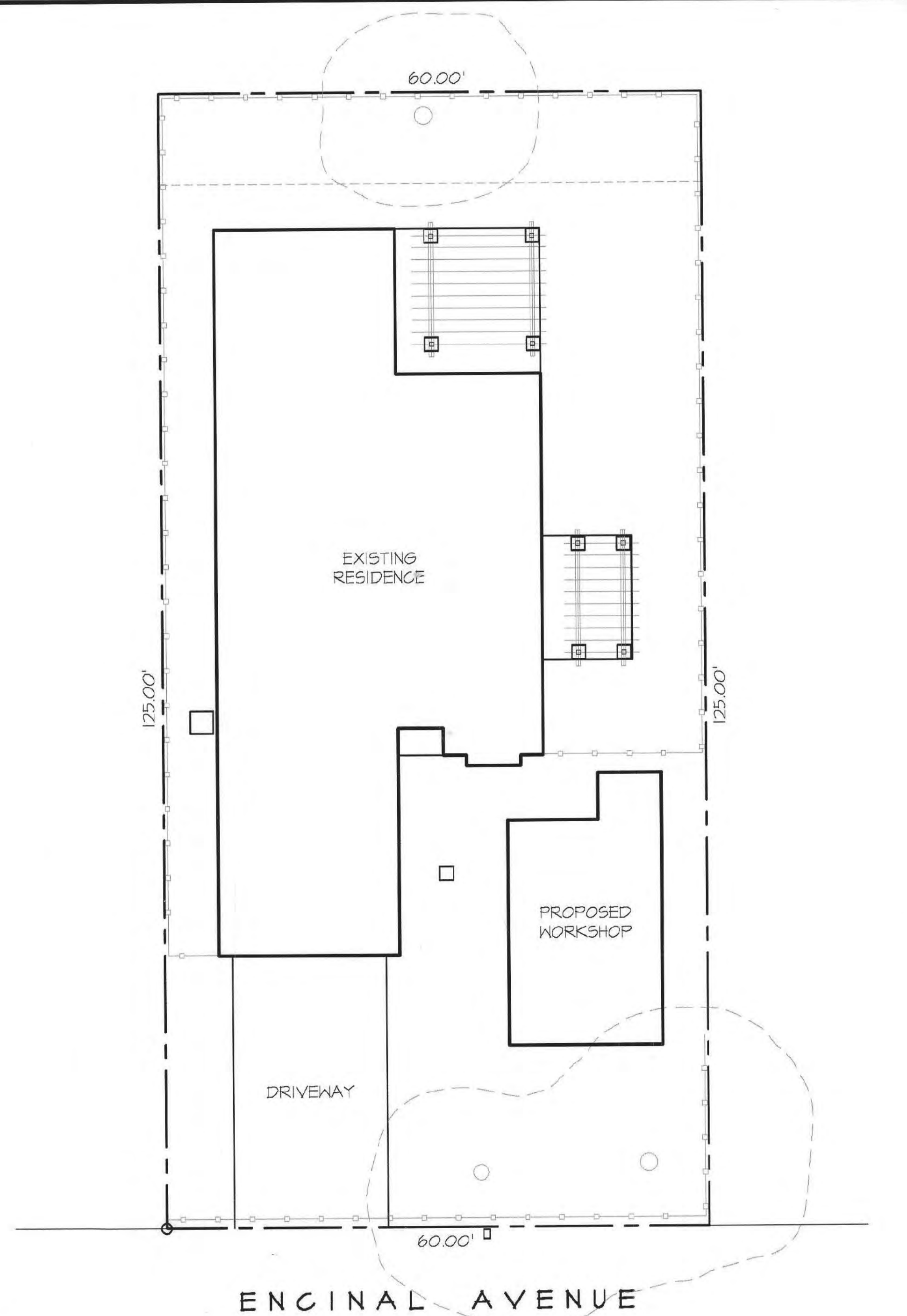
ADDITIONAL NOTES

The discharge of pollutants to any storm drainage system is prohibited per the Ventura Countywide Municipal Storm Water NPDES Permit No. CAS 5004002. No solid waste, petroleum byproducts, soil particulate, construction waste materials, or wastewater generated on the construction site or by construction activities shall be placed, conveyed, or discharged into the street, gutter, or storm drain system.



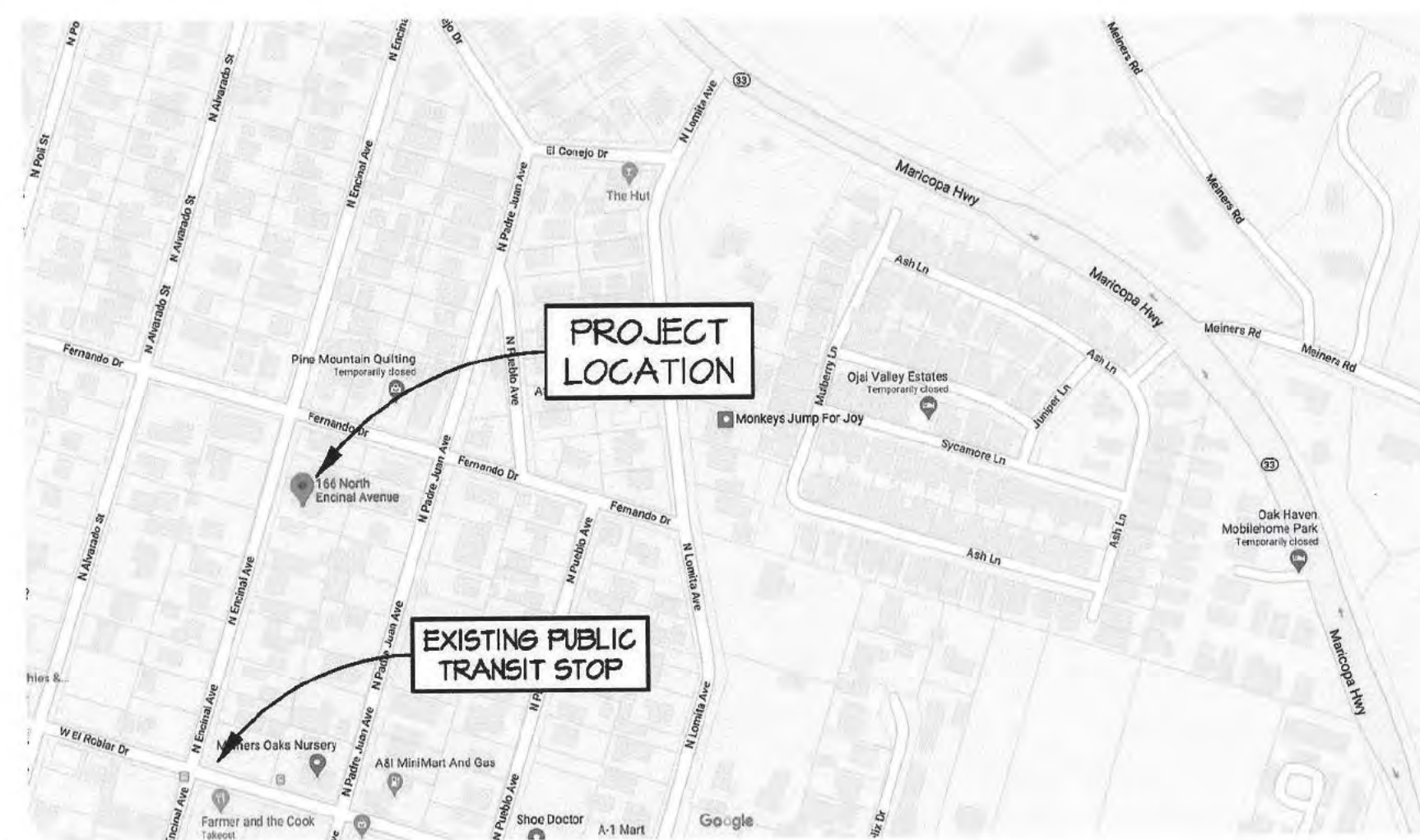
This set of plans and specifications MUST be kept on the job at all times and it is unlawful to make any changes or alterations on same without written permission from the Building Inspection Dept., County of Ventura. The stamping of this plan and specifications SHALL NOT be held to permit or to be an approval of the violation of any provisions of any County Ordinance of Santa Luis.





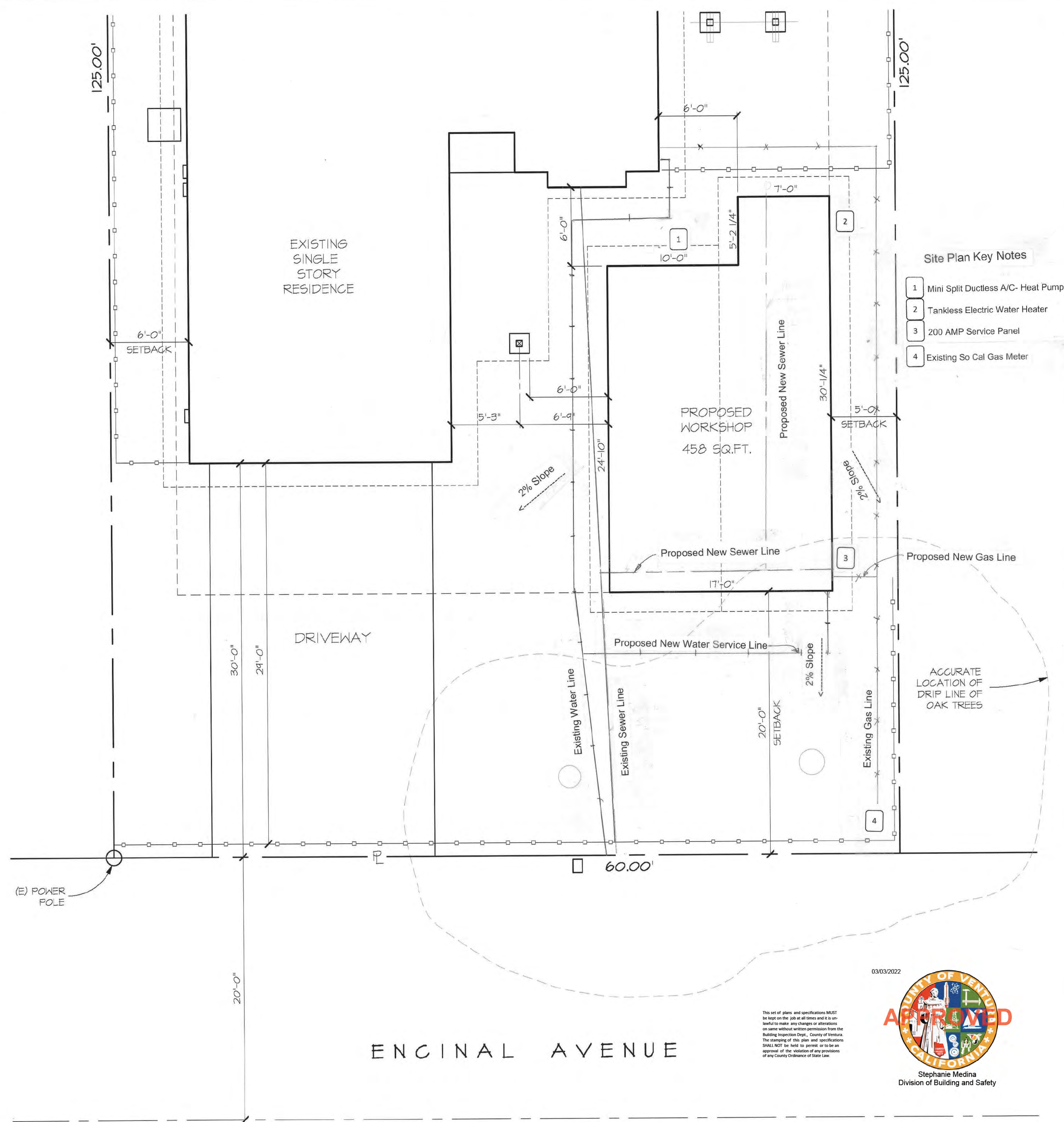
**SITE PLAN**  
SCALE: 1" = 10'-0"

SCALE: 1" = 10'-0"



LOCATION MAP

APPROXIMATE SCALE: 1" = 300'



ENLARGED PORTION OF SITE PLAN

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

[illegible]

APN:  
017-0-144-090

# SITE PLAN

C21-001401

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PROPOSED CONSTRUCTION



Stephanie Medina  
Division of Building and Safety

Division of Building and Safety

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CMS  
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HECKED

HECKED

DATE \_\_\_\_\_

SCALE

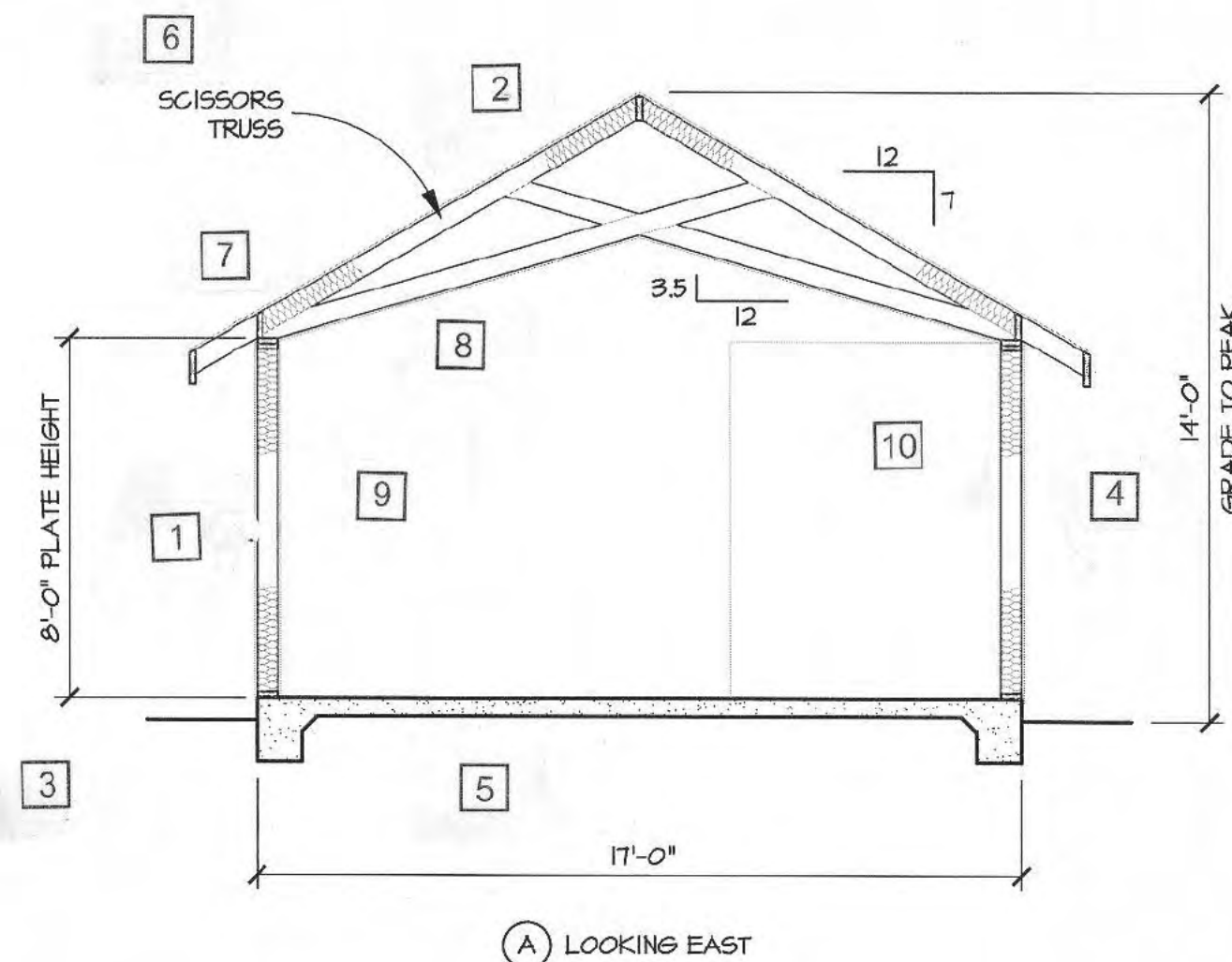
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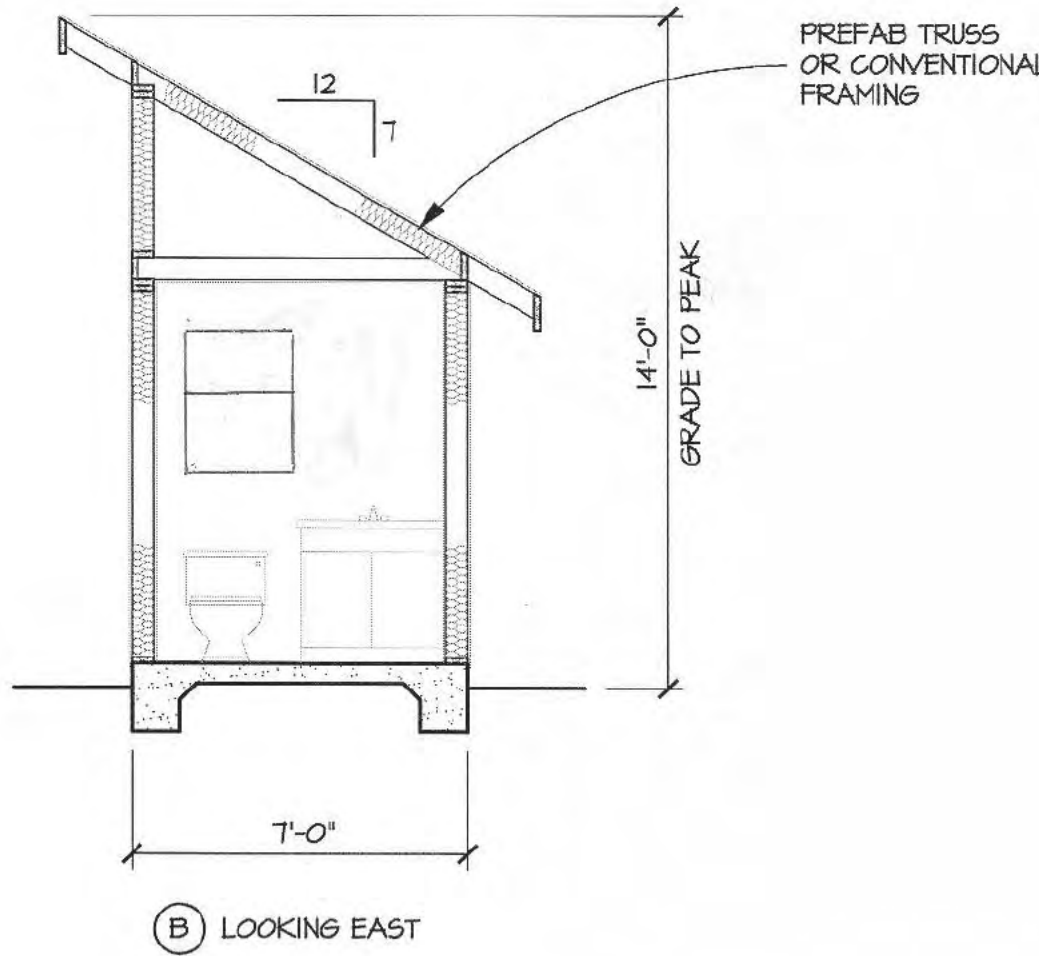
SHEET

2





(A) LOOKING EAST



(B) LOOKING EAST

SECTION KEY NOTES

- 1. Board and Batten siding exterior walls, horizontal siding in gable ends.
- 2. Class A Fire rated asphalt shingles
- 3. Grading to be sloped away from building
- 4. Wood trim around door and windows
- 5. Tile over concrete slab
- 6. Truss per structural drawings
- 7. Ceiling joists per structural drawings
- 8. Insulation- Ceiling: R-38 Batt; see Title 24
- 9. Insulation- Walls: R-21 Batt; see Title 24
- 10. 1/2" drywall on ceiling, wall; water resistant drywall in sink, bathroom as typical.

SECTIONS

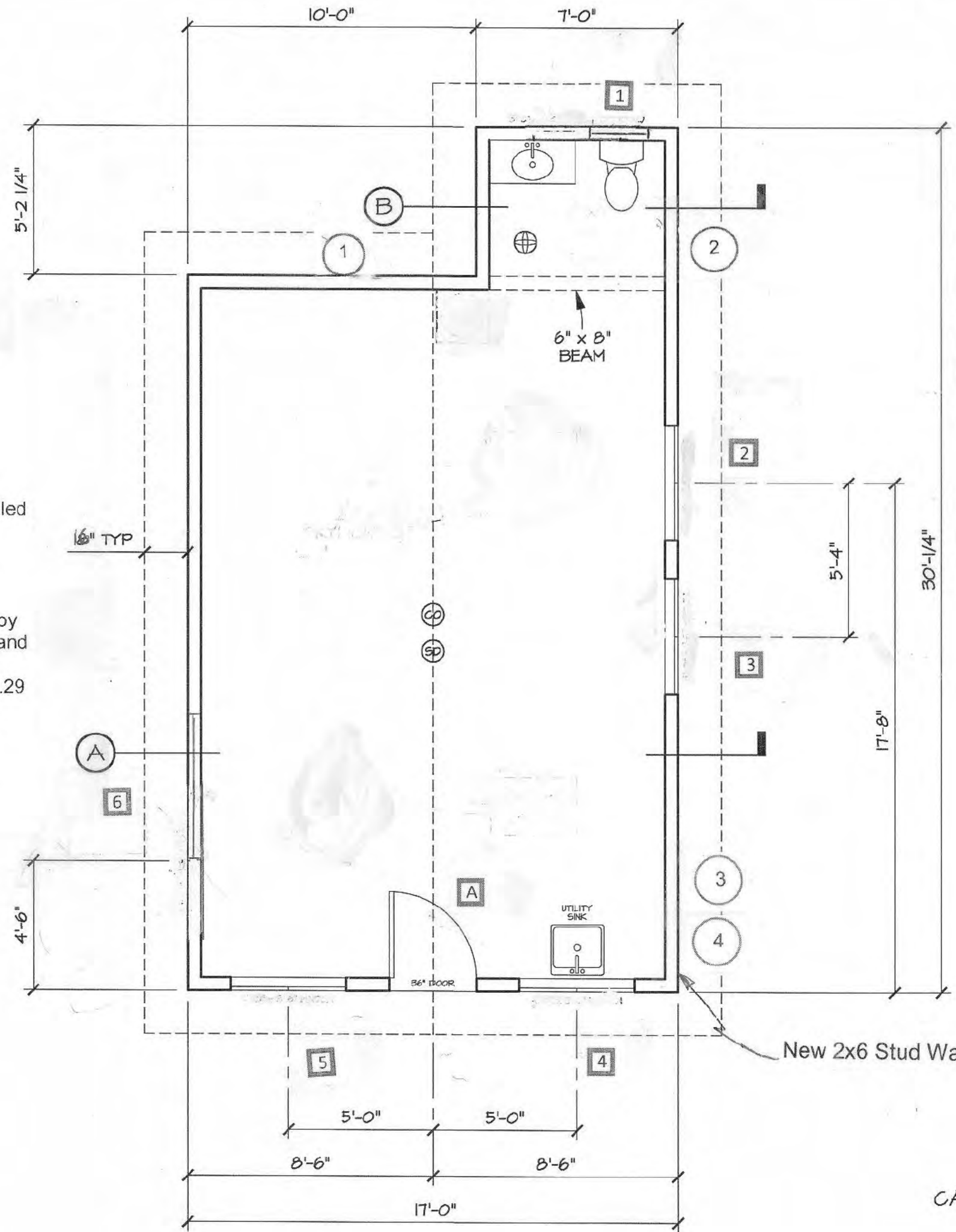
SCALE: 1/4" = 1'-0"



FLOOR PLAN

NOTE: ALL WALL DIMENSIONS TO FACE OF STUD

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



- 1 Mini Split Ductless A/C- Heat Pump
- 2 Tankless Water Heater
- 3 200 AMP Service Pane
- 4 New Gas Line and Shut Off

WINDOW SCHEDULE

Size	Style	Material
1 2'0" x 3'0"	single hung	Vinyl- Energy Star Rated
2 4'0" x 1'6"	slider	Vinyl- Energy Star Rated
3 4'0" x 1'x6"	slider	Vinyl- Energy Star Rated
4 4'0" x 3'6"	single hung	Vinyl- Energy Star Rated
5 4'0" x 3'6"	single hung	Vinyl- Energy Star Rated
6 4'0" x 1'x6"	slider	Vinyl- Energy Star Rated

DOOR SCHEDULE

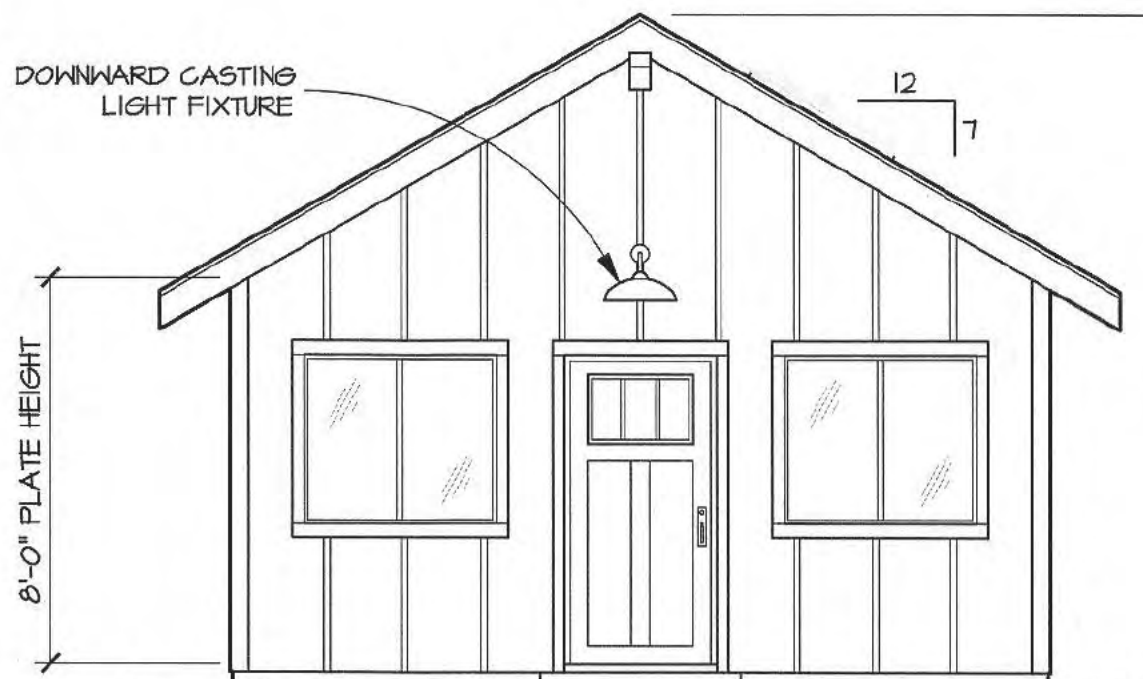
Mark	Size	Material
A	3'0" x 6'8" x 1 3/8"	Fiberglass- Exterior

- SMOKE DETECTOR
- CARBON MONOXIDE ALARM
- BATHROOM FAN



ELEVATION GENERAL NOTES

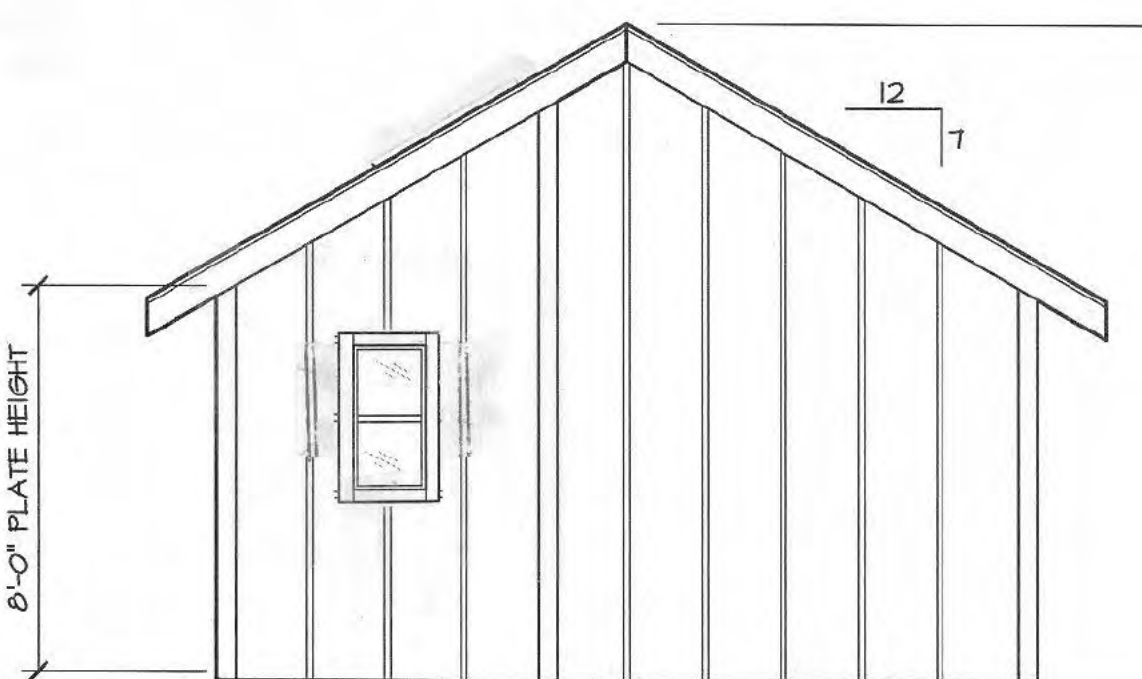
- 1. Board and Batten siding exterior walls, horizontal siding in gable ends
- 2. Class A Fire rated asphalt shingles
- 3. Grading to be sloped away from building
- 4. Wood trim around door and windows



WEST ELEVATION  
LOOKING EAST



NORTH ELEVATION  
LOOKING SOUTH



EAST ELEVATION  
LOOKING WEST



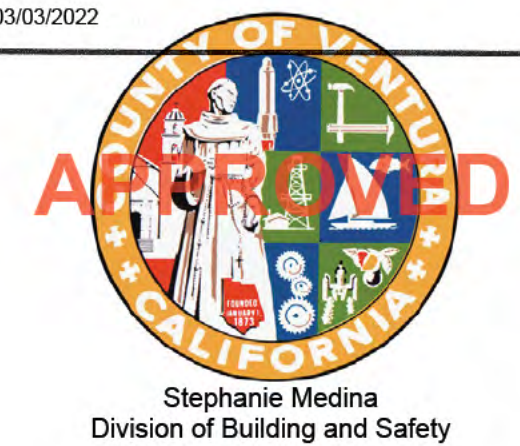
SOUTH ELEVATION  
LOOKING NORTH

ELEVATIONS

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



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Revisions		
No.	Description	Date

APN:  
017-0-144-090

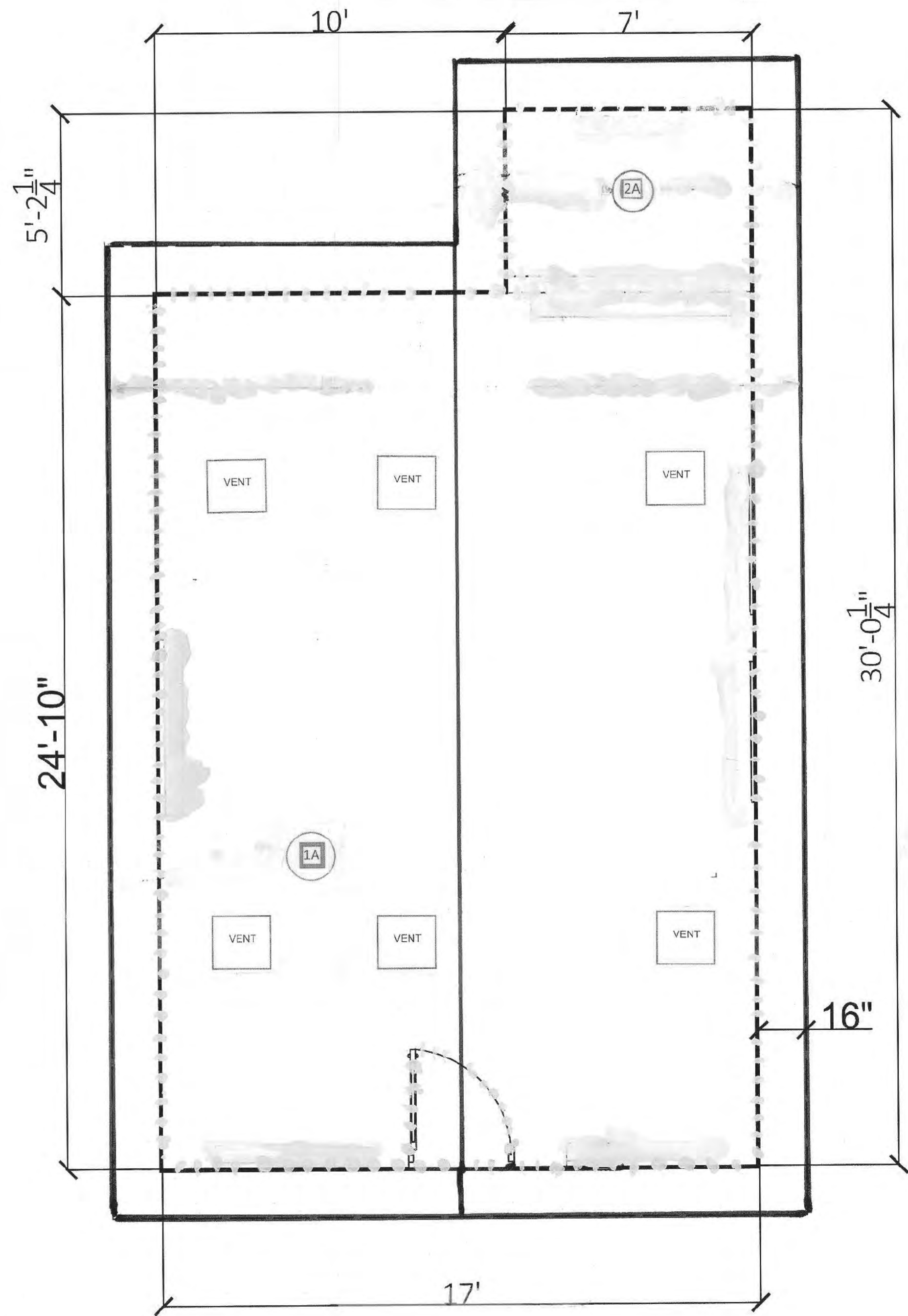
FLOOR PLANS  
ELEVATIONS  
SECTIONS  
C21-001401

PROPOSED CONSTRUCTION

DRAWN CMS
CHECKED
DATE
SCALE AS NOTED
JOB NO.
SHEET

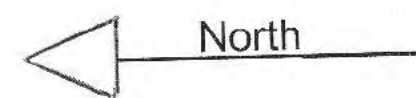
3





Roof Plan

Scale: 3/8" = 1'-0"

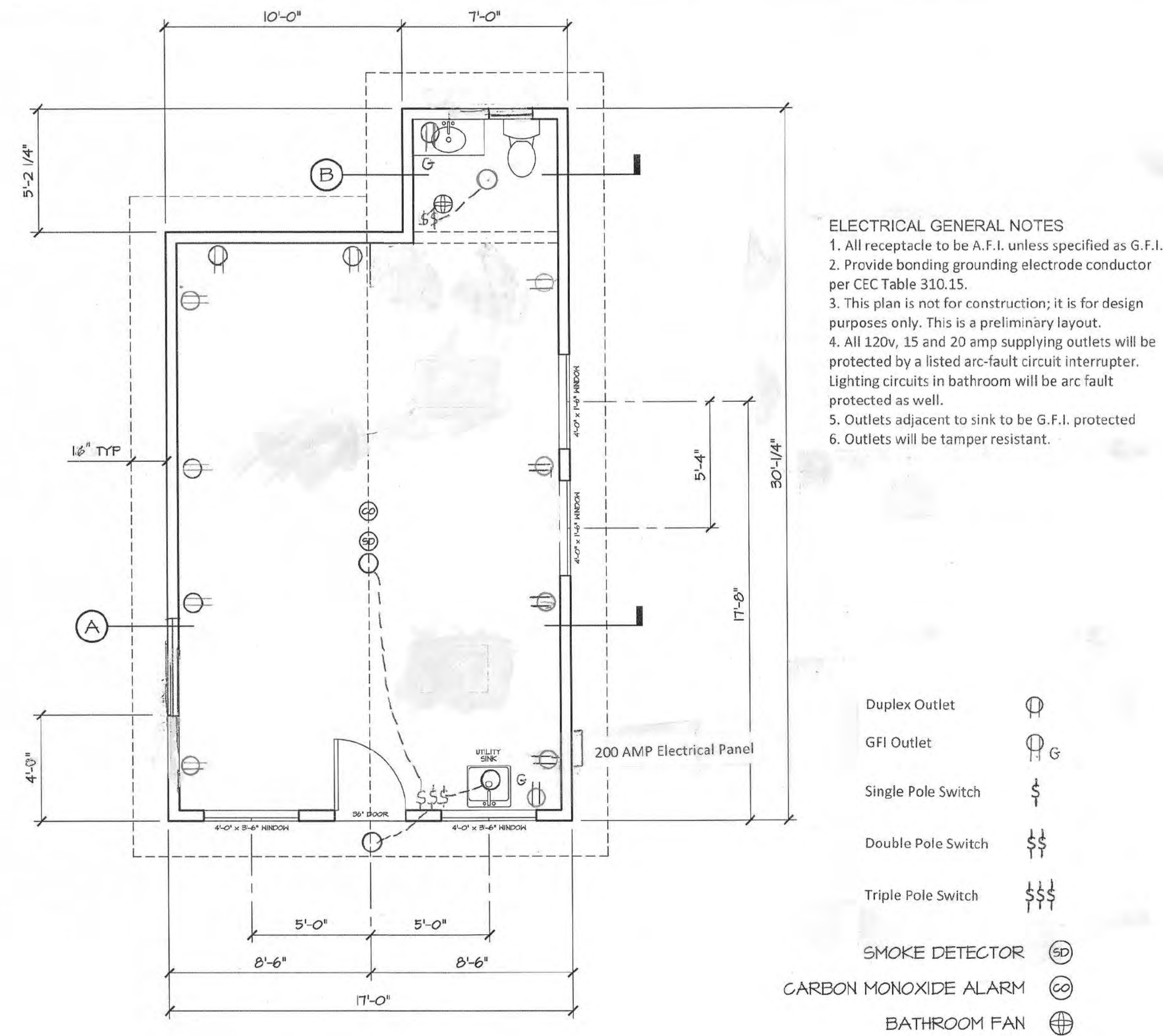


- GENERAL NOTES**
1. New Class A shingle roof
  2. O'Hagen Standard Roof Vents
  3. Gutters and downspouts provided

- Ventilation**
1. Mandatory minimum attic ventilation area is 1/300 of the area of the space ventilated for all enclosed rafter spaces. Class I or II vapor retarder is installed on the warm-in-winter side of the ceiling. At least 50% of the required ventilation must be a minimum of three feet above the eave.
  2. Provide cross ventilation for each space between rafter openings and have a minimum opening of 1/16" and max 1/4". Minimum of 1" air space shall be provide between the insulation and the roof sheathing.

LIGHT TUBE SCHEDULE

Mark	Size	
1A	14" Dia.	Velux Sun Tube
2A	10" Dia.	Velux Sun Tube



- ELECTRICAL GENERAL NOTES**
1. All receptacle to be A.F.I. unless specified as G.F.I.
  2. Provide bonding grounding electrode conductor per CEC Table 310.15.
  3. This plan is not for construction; it is for design purposes only. This is a preliminary layout.
  4. All 120v, 15 and 20 amp supplying outlets will be protected by a listed arc-fault circuit interrupter. Lighting circuits in bathroom will be arc fault protected as well.
  5. Outlets adjacent to sink to be G.F.I. protected
  6. Outlets will be tamper resistant.



**ELECTRICAL PLAN** NOTE: ALL WALL DIMENSIONS TO FACE OF STUD

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



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03/03/2022



Stephanie Medina  
Division of Building and Safety

Revisions

No.	Description	Date

APN:  
017-0-144-090

Roof Plan  
ELECTRICAL PLAN  
C21-001401

PROPOSED CONSTRUCTION

a

DRAWN

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DATE

SCALE

AS NOTED

JOB NO.

SHEET

4



ELEMENT/CONNECTI ON	FASTENER	LOCATION
ROOF		
1. Blocking between ceiling joists, rafters or trusses to top plate or other framing below	3 - 8d common (2 1/2" x 0.131") 3-10d box (3"x0.128") 3 - 3" x 0.131" nails 3 - 3" 14 gage staples, 7/16" crown	Toenail each end
Blocking between rafters or truss not at the wall top plate, to rafter or truss	2-8d common (2 1/2" x 0.131") 2 - 3" x 0.131" nails 2 - 3" 14 gage staples	toenail each end
Flat blocking to truss and wey filler	2-16d common (3 1/2"x0.162") @6" o.c. 3-3"x0.131" nails @ 6" o.c. 3-3" 14 gage staples @ 6" o.c.	end nail
2. Ceiling joists to top plate	3-8d common 3-10d box 3-3"x0.131" nails 3-3" 14 gage staples, 7/16" crown	Toenail each joist
3. Ceiling joist not attached to parallel rafter, laps over partitions (no thrust) (Table and Section 2308.7.3.1)	3-16d common 4-10d box 4-3"x0.131" nails 4-3" 14 gage staples, 7/16" crown	Face nail
4. Ceiling joists attached to parallel rafter (heel joint) (Table and Section 2308.7.3.1)	Table 2308.7.3.1	Face nail
5. Collar tie to rafter	3-10d common 4-10d box 4-3"x0.131" nails 4-3" 14 gage staples, 7/16" crown	Face nail
6. Rafter or roof truss to top plate (Table and section 2308.7.5)	3-10 common 3-16d box 4-10d box 4-3"x0.131" nails 4-3" 14 gage staples, 7/16" crown	Toenail <sup>(1)</sup>
7. Roof rafters to ridge valley or hip rafters; or roof rafter to 2" ridge beam	2-16d common 3-10d box 3-3"x0.131" nails 3-3" 14 gage staples, 7/16" crown	End nail
WALL		
8. Stud to Stud (not at braced wall panels)	1-6d common 1-16d box 3"x0.131" nails 3" 14 gage staples, 7/16" crown	24" o.c. face nail 16" o.c. face nail
9. Stud to stud and abutting studs at intersecting wall corners (at braced wall panels)	1-6d common 1-16d box 3"x0.131" nails 3" 14 gage staples, 7/16" crown	16" o.c. face nail 12" o.c. face nail 12" o.c. face nail
10. Built-up header	1-6d common 1-16d box 3" 14 gage staples, 7/16" crown	16" o.c. each edge, face nail 12" o.c. each edge, face nail
11. Continuous header to stud	4-8d common 4-10d box	Toenail
12. Top plate to top plate	1-6d common 1-10d box 3"x0.131" nails 3" 14 gage staples, 7/16" crown	16" o.c. face nail 12" o.c. face nail
13. Top plate to top plate, at end joints	8-16d common 12-10d box 12-3"x0.131" nails 12-3" 14 gage staples, 7/16" crown	Each side of end joint, face nail (min 24" lap splice length each side of end joint)
14. Bottom plate to joist, rim joist, band joist or blocking (not at braced wall panels)	1-6d common 1-16d box 3"x0.131" nails 3" 14 gage staples, 7/16" crown	16" o.c. face nail 12" o.c. face nail
15. Bottom plate to joist, rim joist, band joist or blocking at braced wall panels	2-16d common 3-16d box 4-3"x0.131" nails 4-3" 14 gage staples, 7/16" crown	16" o.c. face nail
16. Stud to top or bottom plate	4-8d common 4-10d box 4-3"x0.131" nails 4-3" 14 gage staples, 7/16" crown	Toenail
	2-16d common 3-10d box 3-3"x0.131" nails 3-3" 14 gage staples, 7/16" crown	End nail

ELEMENT/CONNECTI ON	FASTENER	LOCATION
17. Top or bottom plate to stud	2-16d common 3-10d box 3-3"x0.131" nails 3-3" 14 gage staples, 7/16" crown	End nail
18. Top plates, laps at corners and intersections	2-16d common 3-10d box 3-3"x0.131" nails 3-3" 14 gage staples, 7/16" crown	Face nail
19. 1" brace to each stud and plate	2-8d common 2-10d box 2-3"x0.131" nails 2-3" 14 gage staples, 7/16" crown	Face nail
20. 1"x6" sheathing to each bearing	2-8d common 2-10d box 3-8d common 3-10d box	Face nail
21. 1"x8" and wider sheathing to each bearing	2-10d box	Face nail
FLOOR		
22. Joist to sill, top plate, or girder	3-8d common 3-10d box 3-3"x0.131" nails 3-3" 14 gage staples, 7/16" crown	Toenail
23. Rim joist, band joist, or blocking to top plate, sill or other framing below	8d common 10d box 3"x0.131" nails 3" 14 gage staples, 7/16" crown	6" o.c., toenail
24. 1"x6" subfloor or less to each joist	2-8d common 2-10d box	Face nail
25. 2" subfloor to joist or girder	2-16d common	Face nail
26. 2" plank	2-16d common	Each bearing, face nail
27. Built up girders and beams, 2" lumber layers	20d common	32" o.c. face nail at top and bottom staggered on opposite sides
28. Ledger strip supporting joists or rafters	10d box 3"x0.131" nails 3" 14 gage staples, 7/16" crown And 2-20d common 2-10dbox 2-3"x0.131" nails 2-3" 14 gage staples, 7/16" crown	24" o.c. face nail at top and bottom staggered on opposite sides Ends and at each splice, face nail
29. Joist to band joist or rim joist	3-16d common 4-10d box 4-3"x0.131" nails 4-3" 14 gage staples, 7/16" crown	End nail
30. Bridging or blocking to joist, rafter or truss	2-8d common 2-10d box 2-3"x0.131" nails 2-3" 14 gage staples, 7/16" crown	Each end, toenail
WOOD STRUCTURAL PANS, SUB FLOOR, ROOF AND INTERIOR WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING <sup>(5)</sup>		
31. 3/8"-1/2"	6d common or deformed (2"x0.113") (subfloor and wall) 8d box or deformed (roof) 2-3"x0.113" nail (subfloor and wall) 1 1/2" 16 gage staple, 7/16" crown 2-3"x0.113" nail (roof) 1 1/2" 16 gage staple, 7/16" crown (roof)	6" edge 12" intermediate supports 4" edge 8" intermediate supports 3" edge 6" intermediate supports
32. 19/32" - 3/4"	8d common 6d deformed 2-3"x0.113 nail 2" 16" gage staple, 7/16" crown	6" edge 12" intermediate supports 4" edge 8" intermediate supports
33. 7/8" - 1/4"	10d common 8d deformed	6" edge 12" intermediate supports
OTHER EXTERIOR WALL SHEATHING		
34. 1/2" fiberboard sheathing <sup>(1)</sup>	1 1/2" galvanized roof nail 1 1/2" 16 gage staple with 7/16" or 1" crown	3" edge 6" intermediate supports
35. 23/32" fiberboard sheathing <sup>(1)</sup>	1 1/2" galvanized roof nail 1 1/2" 16 gage staple with 7/16" or 1" crown	3" edge 6" intermediate supports
WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING		
36. 1/2" and less	8d common 8d deformed	6" edge 12" intermediate supports
37. 7/8"-1"	8d common 8d deformed	6" edge 12" intermediate supports
38. 1 1/8"-1 1/2"	10d common 8d deformed	6" edge 12" intermediate supports
PANEL SIDING TO FRAMING		
39. 1/2" or less	6d corrosion-resistant siding 6d corrosion-resistant casing	6" edge 12" intermediate supports
40. 5/8"	8d corrosion-resistant siding 8d corrosion-resistant casing	6" edge 12" intermediate supports
INTERIOR PANELING		
41. 1/2"	4d casing 4d finish	6" edge 12" intermediate supports
42. 3/8"	6d casing 6d finish	6" edge 12" intermediate supports

For SE: 1 inch = 25.4 mm.  
a. Nails spaced at 6 inches at intermediate supports where spans are 48" or more. For nailing of wood structural panel and particleboard diaphragms and shear walls, refer to Section 2305. Nails for wall sheathing are permitted to be common, box or casing.  
b. Spacing shall be 6 inches on center on the edges and 12 inches on center at intermediate supports for nonstructural applications. Panel supports at 16 inches (20 inches if strength axis in the long direction of the panel, unless otherwise marked).  
c. Where a rafter is fastened to an adjacent parallel ceiling joist in accordance with this schedule and the ceiling joist is fastened to the top plate in accordance with this schedule, the number of toenails in the rafters shall be permitted to be reduced by one nail.  
\*\* See Table 2304.10.1 for more information

FASTENERS USED IN PRESSURE TREATED LUMBER MUST BE APPROVED FOR USE WITH THE SPECIFIC TYPE OF PRESSURE TREATED LUMBER IN PLACE.

#### NOTES TO THE GENERAL CONTRACTOR/OWNER.

- THE STRUCTURAL OBSERVATIONS ARE ADVISORY ONLY AND DO NOT BIND THE DEPARTMENT OR CERTIFY THAT THE WORK WILL PASS THE APPROPRIATE DEPARTMENT INSPECTION(S).
  - STRUCTURAL OBSERVATION DOES NOT CERTIFY, GUARANTEE OR ENSURE CONFORMANCE WITH THE APPROVED PLANS. IT DOES NOT PROVIDE THE QUALITY ASSURANCE OF CONTINUOUS INSPECTION. IT DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR PROGRESS, CALLED OR CONTINUOUS INSPECTIONS BY THE BUILDING INSPECTOR OR DEPUTY INSPECTOR. HOWEVER, STRUCTURAL OBSERVATION DOES PROVIDE ADDITIONAL REVIEW OF THE FIELD CONSTRUCTION TO SUBSTANTIALLY INCREASE THE LIKELIHOOD THAT THE STRUCTURAL SYSTEM WILL BE IN GENERAL CONFORMANCE WITH THE APPROVED
- #### GENERAL NOTES
- ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE DRAWINGS AND SPECIFICATIONS AS WELL AS CBC 2019 AND ALL APPLICABLE CODES.
  - 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.
  - 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.
  - ALL DETAILS DESIGNATED AS STANDARD OR TYPICAL SHALL OCCUR IN ADDITION TO ANY OTHER SPECIFIC DETAIL CALLED OUT.
  - 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.
  - AFTER COMMENCEMENT OF WORK, ANY DELAYS, PROBLEMS OR FAULTS IN CONSTRUCTION DUE IN FULL OR PART TO ERRORS OR OMISSIONS IN THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE PERSON RESPONSIBLE FOR PREPARING THE CONSTRUCTION DOCUMENTS. THE LIABILITY FOR ERRORS AND OMISSIONS IN THE CONSTRUCTION DOCUMENTS SHALL NOT EXCEED ANY FEES PAID TO THE PERSON RESPONSIBLE FOR PREPARING THE CONSTRUCTION DOCUMENTS.

#### MANUFACTURED LUMBER

- TJI & TJI: ALL PLYWOOD WEB AND OPEN WEB JOISTS SPECIFIED ARE MANUFACTURED BY THE WEYERHAUSER CORP., ICC-ES ESR #1387, #1153.
- MICROLLAM LVL: ALL MICROLLAMS SPECIFIED ARE MANUFACTURED BY THE WEYERHAUSER CORPORATION, ICC-ES ESR #1387.
- PARALLAM PSL: ALL PARALLAMS SPECIFIED ARE MANUFACTURED BY THE TRUS JOIST MACMILLAN CORPORATION, ICC-ES ESR #1387.
- TIMBERSTRAND LSL: ALL TIMBERSTRAND MEMBERS SPECIFIED ARE MANUFACTURED BY THE TRUS JOIST MACMILLAN CORPORATION, ICC-ES ESR #1387
- 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.
- TJI & TJI CROSS BRIDGING AND/OR BRACING SHALL BE PROVIDED AND DETAILED AS REQUIRED TO ADEQUATELY BRACE ALL JOISTS. BRIDGING SHOULD BE INSTALLED AS ERECTION PROCEEDS, AND TEMPORARY BRACING INSTALLED TO MAINTAIN ALIGNMENT AND PREVENT LATERAL MOVEMENT.
- TJI & TJI TEMPORARILY REMOVING WEB MEMBERS AND DRILLING OR CUTTING CHORDS ARE NOT PERMITTED.
- SHEATHING SHALL BE SECURELY FASTENED TO THE TOP CHORD. THE NAILING PATTERN SHALL BE STAGGERED TO AVOID SPLITTING AND TO ASSURE NAILING INTO EACH CHORD MEMBER.
- COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATION AND WEIGHT OF MECHANICAL UNITS AND DESIGN MEMBERS ACCORDINGLY.

#### Structural Design Criteria-166 N. Encinal Ave.

CBC 2019, ASCE 7-16

Allowable Soil Bearing Pressure=1500 psf per County of Ventura Soils Waiver

Roof Live Load = 20 psf

Dead Load = 12 psf

#### Wind Design

Ultimate Wind Design Speed= 93 mph, Nominal Wind Design Speed= 85 mph  
Risk Category II

Wind Exposure = C

Design Wind Pressure Coefficient

Windward Walls = 13.8 psf

Leeward Walls = 9.7 psf

Windward Roof = 9.7 psf

Leeward Roof = 11.04 psf

Internal Pressure Coefficient= GCpi=+0.18,-0.18

#### Seismic Design

Equivalent Lateral Force Procedure

Seismic Importance Factor I = 1.0

Risk Category = II

Seismic parameters per USGS website

Site Class = D default

Seismic Design Category = D

Sms = 2.24 g Sm1= g Ss=1.867 g S1= .707 g Sds=1.494 g Sd1=.822 g

Fa = 1.2 Fv= null

Basic shear force resisting system- light frame shear panels R=6.5

Cs=Sds/(R/I)= .230 W

#### FRAMING LUMBER

- ALL STRUCTURAL LUMBER SHALL BE DOUGLAS FIR OF THE FOLLOWING GRADES, CONFORMING TO STANDARD GRADING RULES FOR WEST COAST LUMBER, NO. 16, UNLESS NOTED OTHERWISE:  
RAFTERS, JOISTS, PLATES NO. 2  
2x BEAMS, STRINGERS, AND HEADERS NO. 2  
4x,6x AND 8x BEAMS, STRINGERS, AND HEADERS NO. 1  
POSTS AND TIMBERS NO. 1  
STUDS CONSTRUCTION GRADE  
BLOCKING, AND STRIPPING CONSTRUCTION GRADE.
- 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 1-09. EACH SHEET OF PLYWOOD SHALL BE IDENTIFIED BY A REGISTERED STAMP OR BRAND OF THE DOUGLAS FIR PLYWOOD ASSOCIATION.
- ALL WOOD BEARING ON CONCRETE SHALL BE BORATE PRESSURE TREATED DOUGLAS FIR.
- 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.
- PROVIDE 2x SLOD BLOCKING BETWEEN JOISTS AND RAFTERS AT ALL SUPPORTS. BLOCKING SHALL BE ONE PIECE AND BE THE FULL DEPTH OF THE JOIST OR RAFTER.
- CROSS BRIDGING SHALL BE PROVIDED AT 8'-0" ON CENTER MAXIMUM FOR ALL JOISTS AND RAFTERS MORE THAN 8" DEEP.
- PROVIDE DOUBLE JOISTS UNDER PARTITIONS WHICH ARE PARALLEL TO THE JOISTS.
- PROVIDE SOLID, FULL BLOCKING UNDER PARTITIONS WHICH ARE PERPENDICULAR TO THE JOISTS.
- 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.
- ALL NAILS SHALL BE COMMON, BOX OR SINKER. NAILING SHALL BE PER SPECIFIED IN CALIFORNIA BUILDING CODE.
- BOLT HOLES IN WOOD SHALL BE 1/32" TO 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER. ALL BOLTS SHALL HAVE STANDARD CUT WASHER UNDER HEAD AND NUT UNLESS NOTED OTHERWISE.
- ALL BOLTS SHALL BE TIGHTENED PRIOR TO THE APPLICATION OF SHEATHING, PLASTER, ETC.
- STRUCTURAL MEMBERS SHALL NOT BE CUT FOR PIPES, ETC. UNLESS SPECIFICALLY DETAILED.
- WOOD STUDS MAY BE NOTCHED TO A DEPTH OF 25% OF THE WIDTH MAXIMUM, EXCEPT INTERIOR NONBEARING STUDS WHICH MAY BE 40% OF THE WIDTH MAXIMUM. STUDS MAY BE BORED OR NOTCHED TO 40% OF THE WIDTH MAXIMUM, EXCEPT INTERIOR NONBEARING STUDS AND DOUBLED BEARING STUDS (PROVIDED NO MORE THAN TWO 25% 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.
- 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.
- SOLID BLK'G SHALL BE PROVIDED AT ALL HORIZONTAL JOINTS OCCURING IN BRACED WALL PANELS

#### CONCRETE

- 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%.
- ULTIMATE COMPRESSIVE STRENGTHS AT 28 DAYS SHALL BE:  
2500 PSI CONTINUOUS FTGS  
2500 PSI SLAB ON GRADE  
2500 PSI RETAINING WALLS  
2500 PSI PAD FOOTINGS  
3000 PSI GRADE BEAMS
- CEMENT SHALL CONFORM TO ASTM C150, TYPE II.
- PLACEMENT OF CONCRETE SHALL CONFORM WITH THE REQUIREMENTS OF ACI 301.
- 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.
- KEYED CONSTRUCTION JOINTS SHALL BE USED IN ALL CASES. ALL LAITCHES SHALL BE REMOVED. ALL VERTICAL JOINTS SHALL BE THOROUGHLY WETTED AND SLUSHED WITH A COAT OF NEAT CEMENT IMMEDIATELY BEFORE PLACING NEW CONCRETE.
- 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.
- 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 1-1/2" 2"  
#6 BARS AND LARGER  
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH SOIL:  
SLABS, WALLS AND JOISTS:  
#11 BARS AND SMALLER 3/4" 1-1/2"  
#14 BARS AND LARGER  
BEAMS AND COLUMNS 1-1/2"
- PIPES OTHER THAN ELECTRICAL CONDUITS SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED.
- 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.

#### FOUNDATION NOTES

- SOILS REPORT NOT REQUIRED. FOUNDATION DESIGN BASED ON CBC 2019, TABLE 1806.2 PRESUMPTIVE LOAD BEARING VALUES
- ALLOWABLE SOIL BEARING PRESSURE = 1500 psf
- 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, THE A-B-C SLOT CUT PROCEDURES ARE TO BE USED.
- MINIMUM SLAB ON GRADE CONSTRUCTION UNLESS NOTED OTHERWISE ON THE PLANS SHALL BE 4 INCH CONCRETE REINFORCED WITH #4 @ 18" O.C. OVER 2 INCHES OF SAND OVER 10 MIL VISQUEEN MOISTURE BARRIER OVER 4 INCH THICK CALTRANS CLASS 2 BASE LAYER OVER COMPACTED SUBGRADE.

#### MASONRY AND STONE VENEERS

- THIS SECTION APPLIES TO VENEERS OF 5" THICKNESS MAXIMUM ACCORDING TO CBC 2019, CHAPTER 14.
- WHERE ANCHORED VENEER IS APPLIED MORE THAN 25 FEET ABOVE ADJACENT GROUND, IT SHALL BE SUPPORTED BY NONCOMBUSTIBLE, CORROSIVE-RESISTANT, STRUCTURAL FRAMING HAVING HORIZONTAL SUPPORTS SPACED A MAXIMUM OF 12 FEET O.C. VERTICALLY.
- NONCOMBUSTIBLE, NONCORROSIVE LINTELS AND NONCOMBUSTIBLE SUPPORTS SHALL BE PROVIDED OVER ALL OPENINGS WHERE THE VENEER IS NOT SELF SPANNING.
- MASONRY SHALL BE ANCHORED DIRECTLY TO STRUCTURAL MASONRY, CONCRETE, OR STUDS ACCORDING TO THE FOLLOWING:  
A. ANCHOR TIES SHALL BE CORROSIVE RESISTANT 22 GA. X 1" WIDE STEEL STRAPS SPACED TO SUPPORT NOT MORE THAN 2 SQUARE FEET OF WALL WITH A MAXIMUM HORIZONTAL SPACING OF 16".  
B. ANCHOR TIES SHALL BE ATTACHED TO NO. 9 GAUGE WIRE HORIZONTAL JOINT REINFORCING.  
C. WOOD STUDS SHALL BE SPACED AT 16" MAXIMUM AND 2 LAYERS OF APPROVED PAPER SHALL FIRST BE APPLIED OVER THE SHEATHING OR WIRES BETWEEN STUDS. MORTAR SHALL BE SLUSHED INTO THE 1" SPACE BETWEEN FACING AND PAPER.

#### CONCRETE ANCHORS

- ALL EPOXY ANCHORS SPECIFIED ON THE PLANS SHALL BE BY ONE OF THE FOLLOWING MANUFACTURERS AND SHOULD BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS:  
SIMPSON STRONG-TIE "SET XP EPOXY" ADHESIVE ANCHOR
- CONTINUOUS SPECIAL INSPECTION BY A REGISTERED DEPUTY INSPECTOR ARE REQUIRED FOR ALL EPOXY ANCHOR INSTALLATIONS.
- POST INSTALLED MECHANICAL ANCHORS SHALL BE SIMPSON TITEN HD, ICC-ER-ES # 2713

#### REINFORCING STEEL

- ALL REINFORCING STEEL, DOWELS, AND TIES SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE. #3 BARS SHALL BE ASTM A615, GRADE 40.
- 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.
- ALL REINFORCING STEEL IN MASONRY SHALL BE LAPPED 40 BAR DIAMETERS OR TWO (2) FEET MINIMUM, UNLESS NOTED OTHERWISE.

#### STRUCTURAL STEEL

- HSS COLUMNS AND BEAMS - ASTM A500 GRADE B
- W BEAMS - ASTM A992 GRADE 50
- PLATES, ANGLE - ASTM A36
- BOLTS - ASTM A307
- ALL STEEL TO HAVE RUST INHIBITIVE PRIMER
- ALL WELDING TO COMPLY WITH AWS SPECIFICATIONS. WELDS MUST BE DONE IN A SHOP OF A LICENSED FABRICATOR.
- CONTINUOUS DEPUTY INSPECTION IS REQUIRED FOR ALL FIELD WELDS.

03/03/2022



Stephanie Medina  
Division of Building and Safety

This set of plans and specifications MUST be kept on the job at all times and it is unlawful to make any changes or alterations to these plans without written permission from the Building Inspection Dept., County of Ventura. The signing of this plan and specifications SHALL NOT be held to permit or to be an approval of the violation of any provisions of any County Ordinance or State Law.

Revisions		
No.	Description	Date

Laima B. Reeder, P.E. Structural Design and Consulting Civil Engineer, CE #59400 805-985-1700 reeder.laima@gmail.com		
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## STANDARD STRUCTURAL DETAILS

## PROPOSED CONSTRUCTION

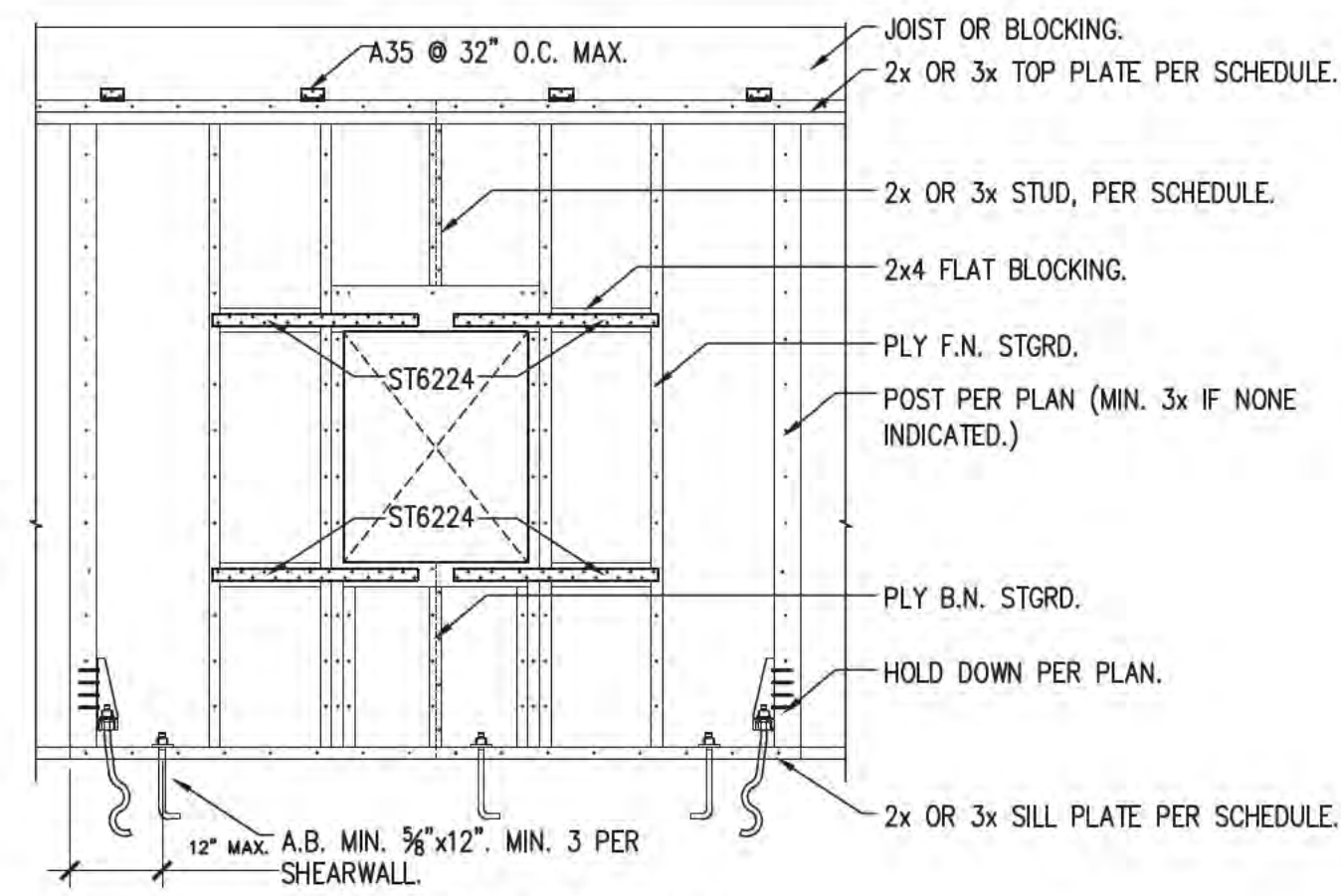


DRAWN CMS
CHECKED
DATE 11-04-2021
SCALE AS NOTED
JOB NO. 21-16-20
SHEET

# S0.1

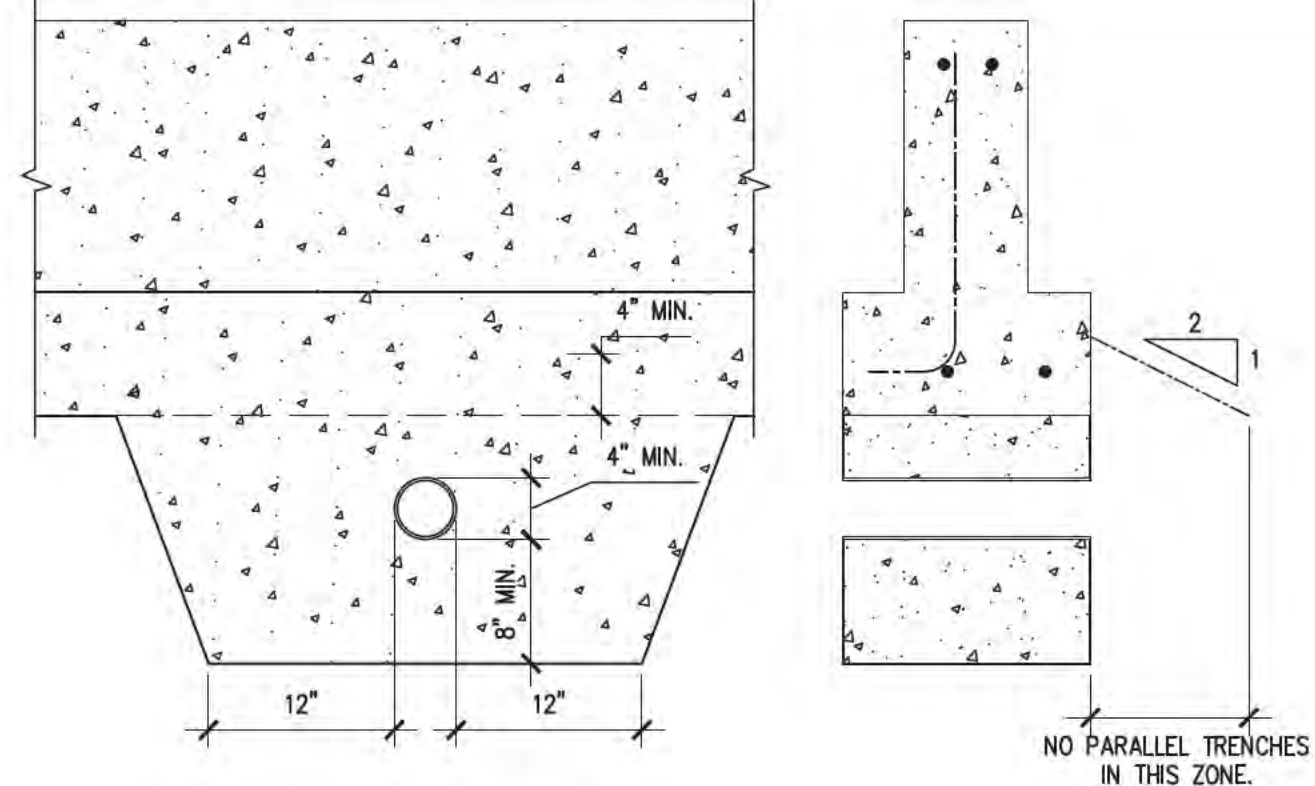
C21-001401





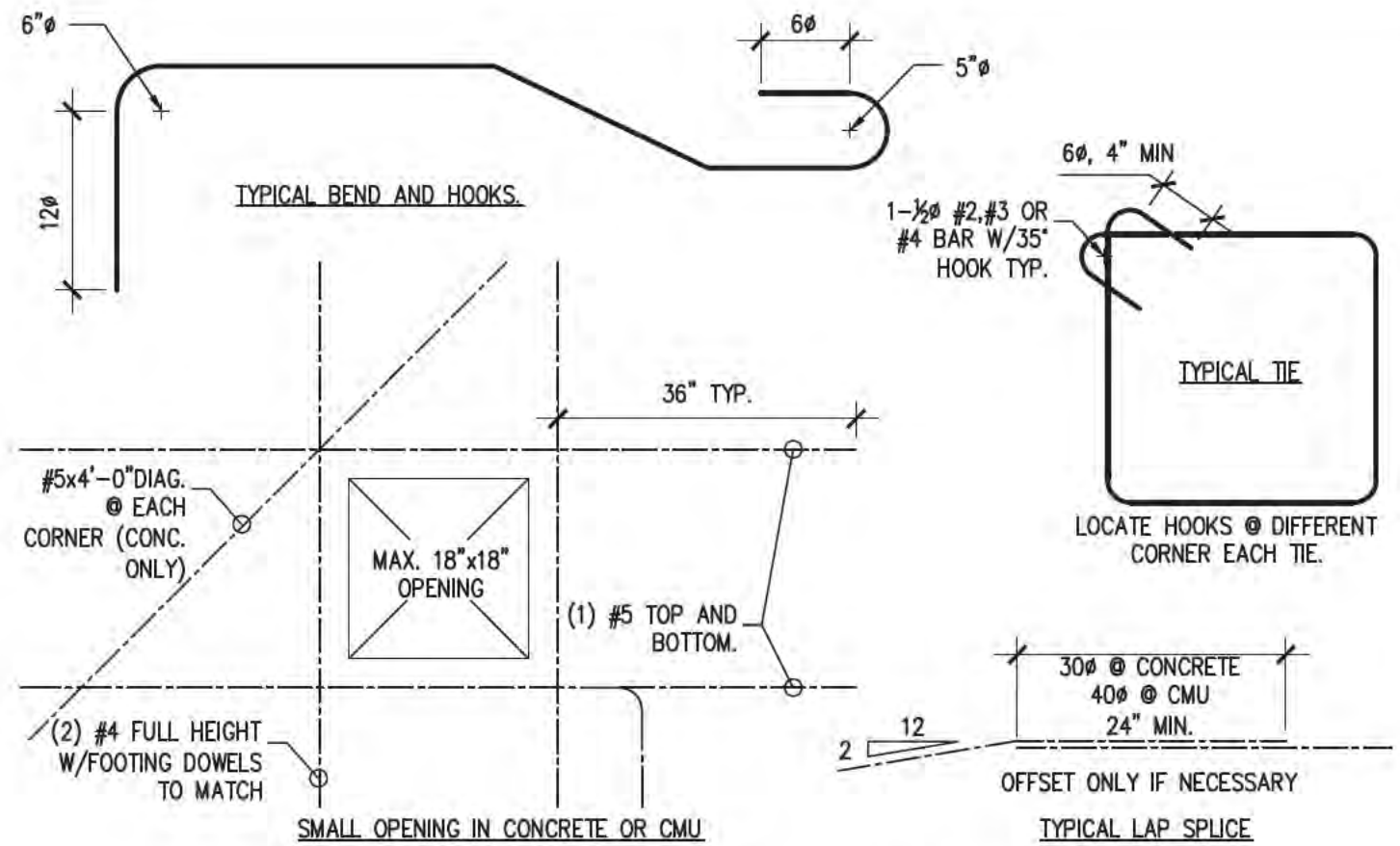
13 TYPICAL SHEARWALL

1/2"=1'-0"



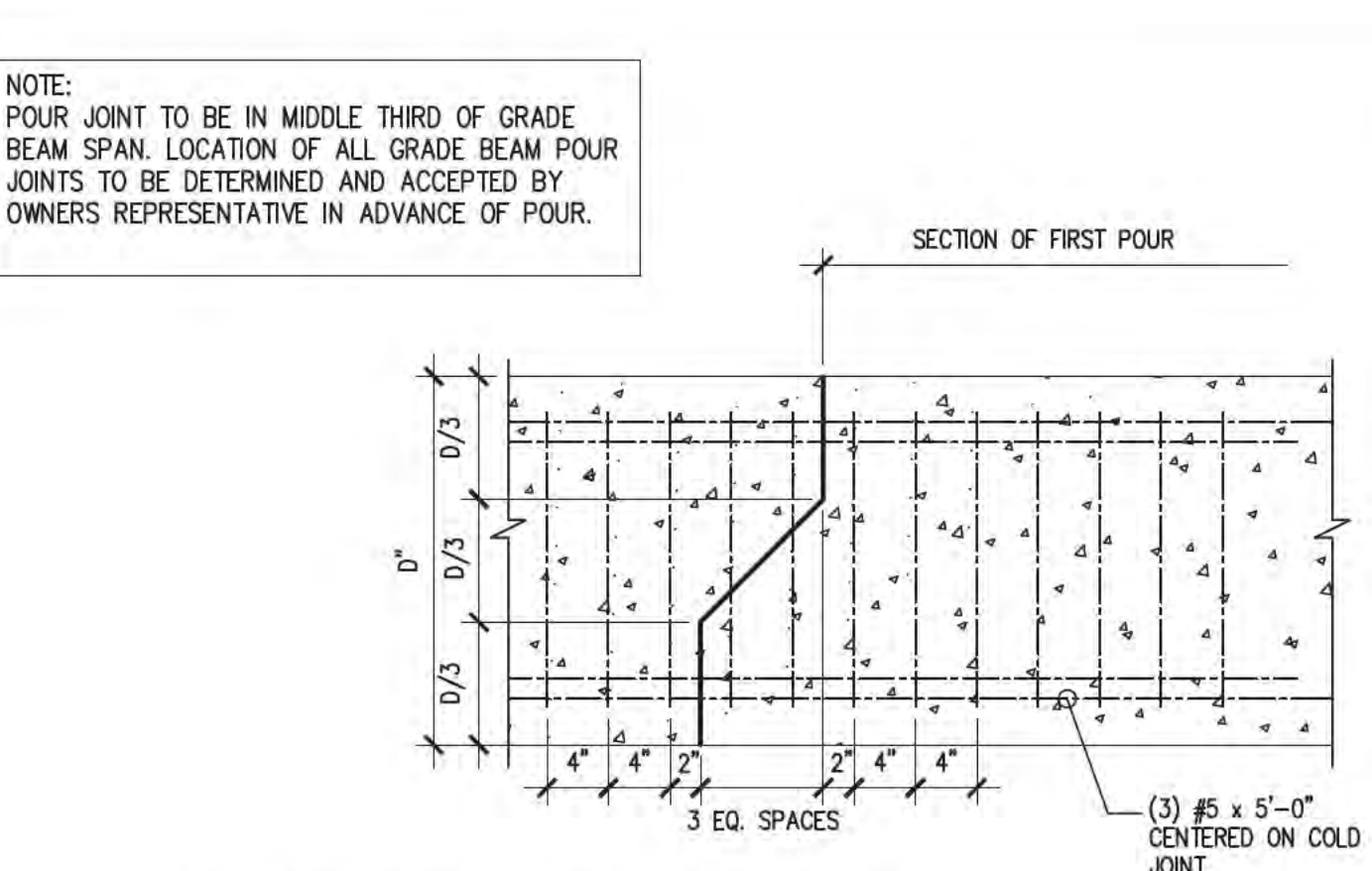
9 PIPE TRENCH AT FOOTING

1"=1'-0"



5 REINF. BENDS, LAPS & SPLICES

1"=1'-0"



1 GRADE BEAM POUR JOINT

1"=1'-0"

**CUTS, NOTCHES AND BORED HOLES IN STUDS**

**GENERAL NOTES:**  
 1. Square holes and notches not recommended. Tapered corners recommended.  
 2. Cuts, notches and bored holes are not to be located adjacent to unsound or loose knots.  
 3. The total area of groups of holes may not be greater than the maximum hole allowed, and must be 24" apart.  
 4. Method of repair: Wood or metal scabs.

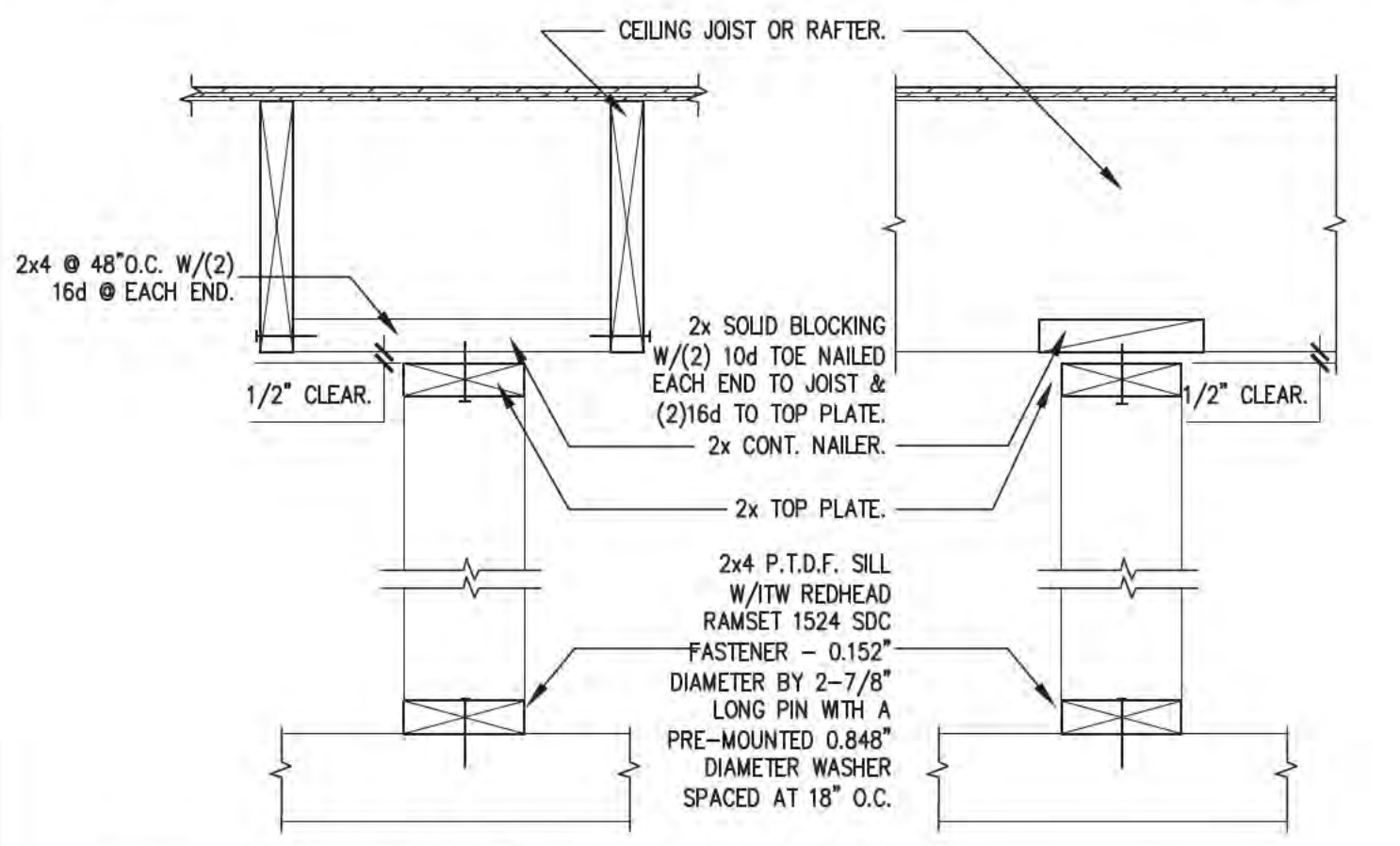
**Bored Holes**  
 2 x 4 stud: 1 1/2" Max  
 2 x 6 stud: 2 1/2" Max  
 40% ALLOWED ANY WALL  
 50% ALLOWED ANY NONBEARING WALL OR EACH BORED STUD DOUBLE END BORED HOLE NOT PERMITTED IN MORE THAN TWO SUCCESSIVE DOUBLED STUDS

**Cutting and Notching**  
 2 x 4 stud: 1 1/2" Max  
 2 x 6 stud: 1 1/2" Max  
 25% ALLOWED EXTERIOR WALLS AND BEARING PARTITIONS  
 40% ALLOWED NONBEARING PARTITIONS

**MECHANICAL PENETRATIONS OF WOOD SHEARWALL PANELS:**

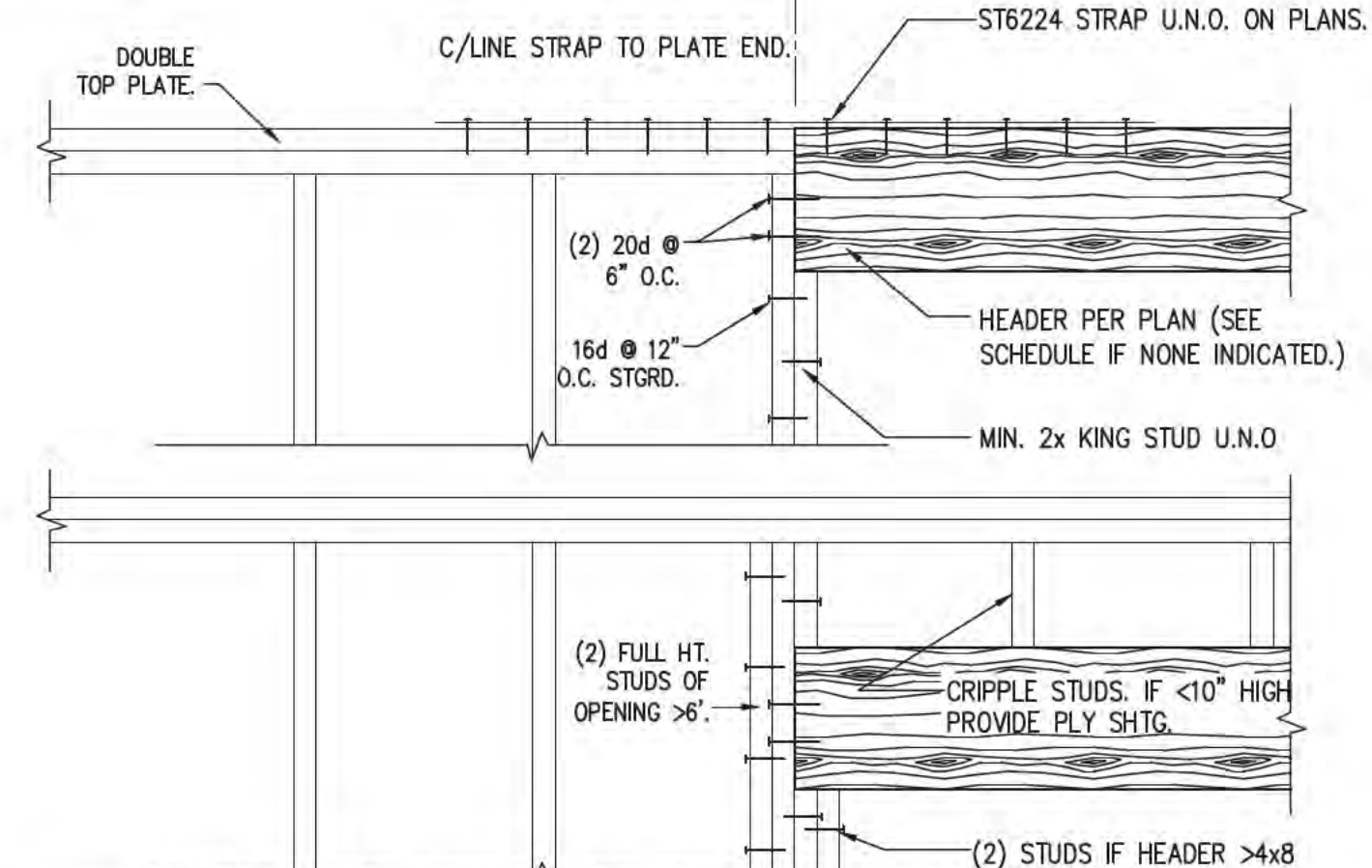
PLYWOOD SHEARWALL  
 PENETRATIONS OF ANY SIZE ARE NOT PERMITTED.

THE MAXIMUM ACCUMULATED LENGTH OF OPENINGS, IN ANY DIRECTION, IN A SHEARWALL PANEL SHALL NOT EXCEED 20% OF THE WALL LENGTH. IN A 4' PANEL, THE MAXIMUM LENGTH OF EACH OPENING SHALL NOT EXCEED 41 1/2" IN ANY DIRECTION.  
 (2) - 41 1/2" WIDE CUTS = 9" IN A 4' PANEL. THE 20% ALLOWABLE EQUALS 9.6" NO CUTS OR HOLES IN SHEATHING WITHIN 16" OF CORNERS



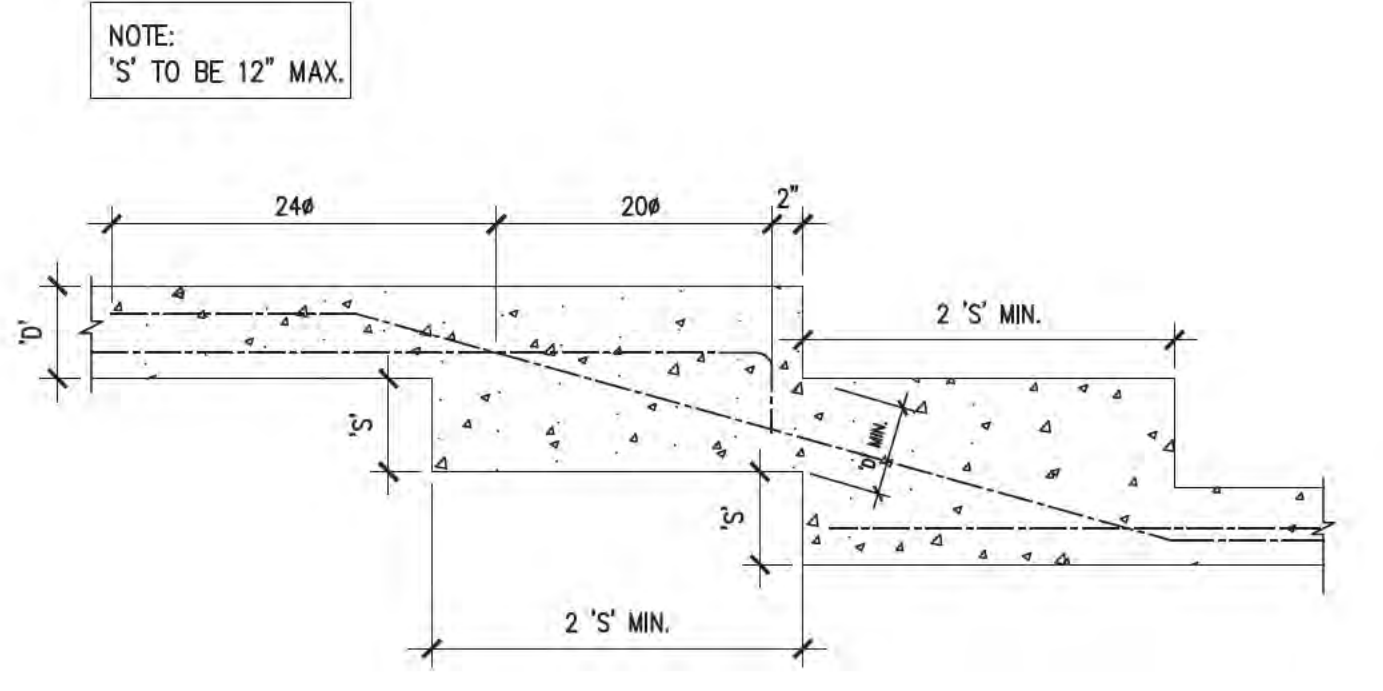
10 NON-BEARING PARTITION

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



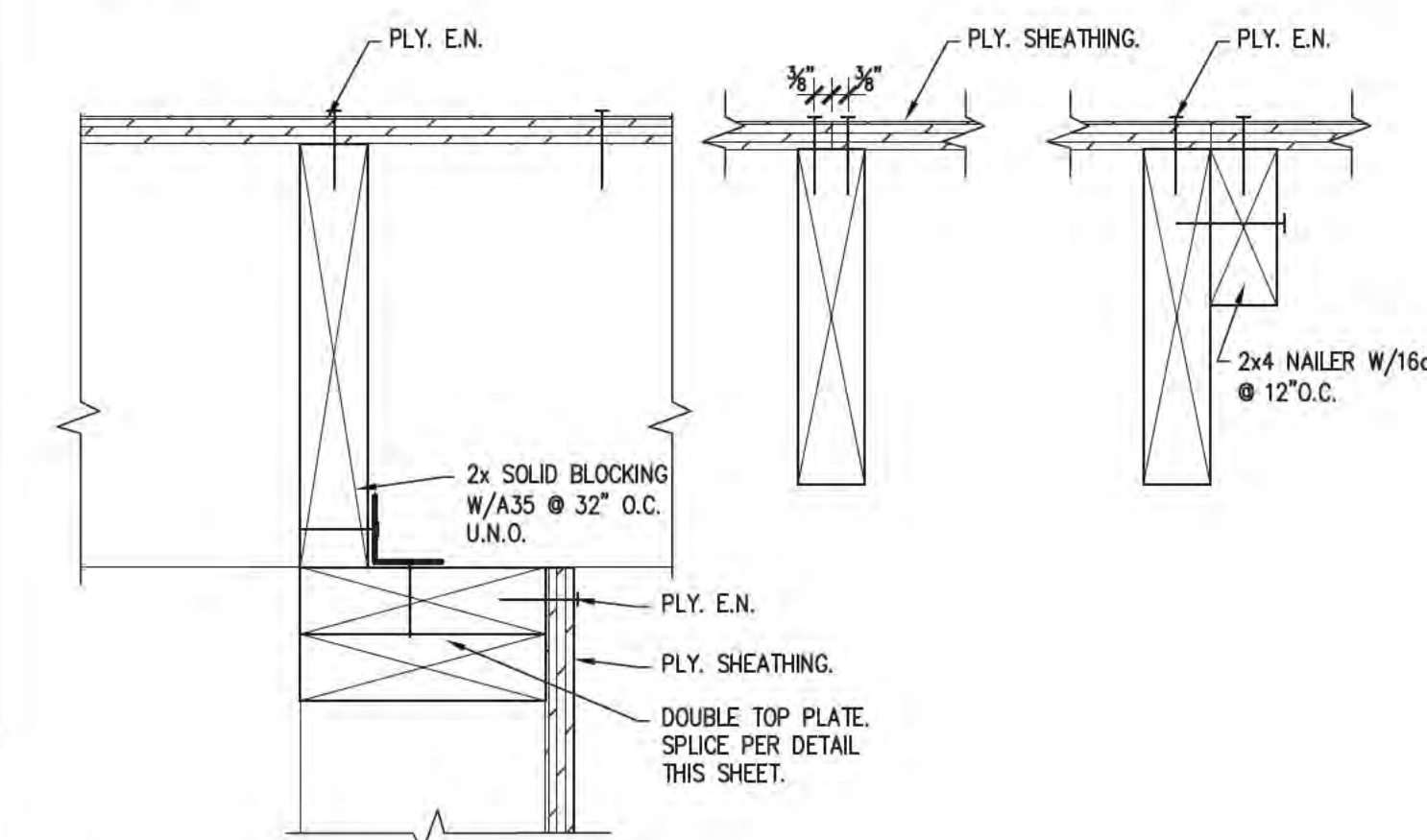
6 HEADER END DETAIL

1"=1'-0"



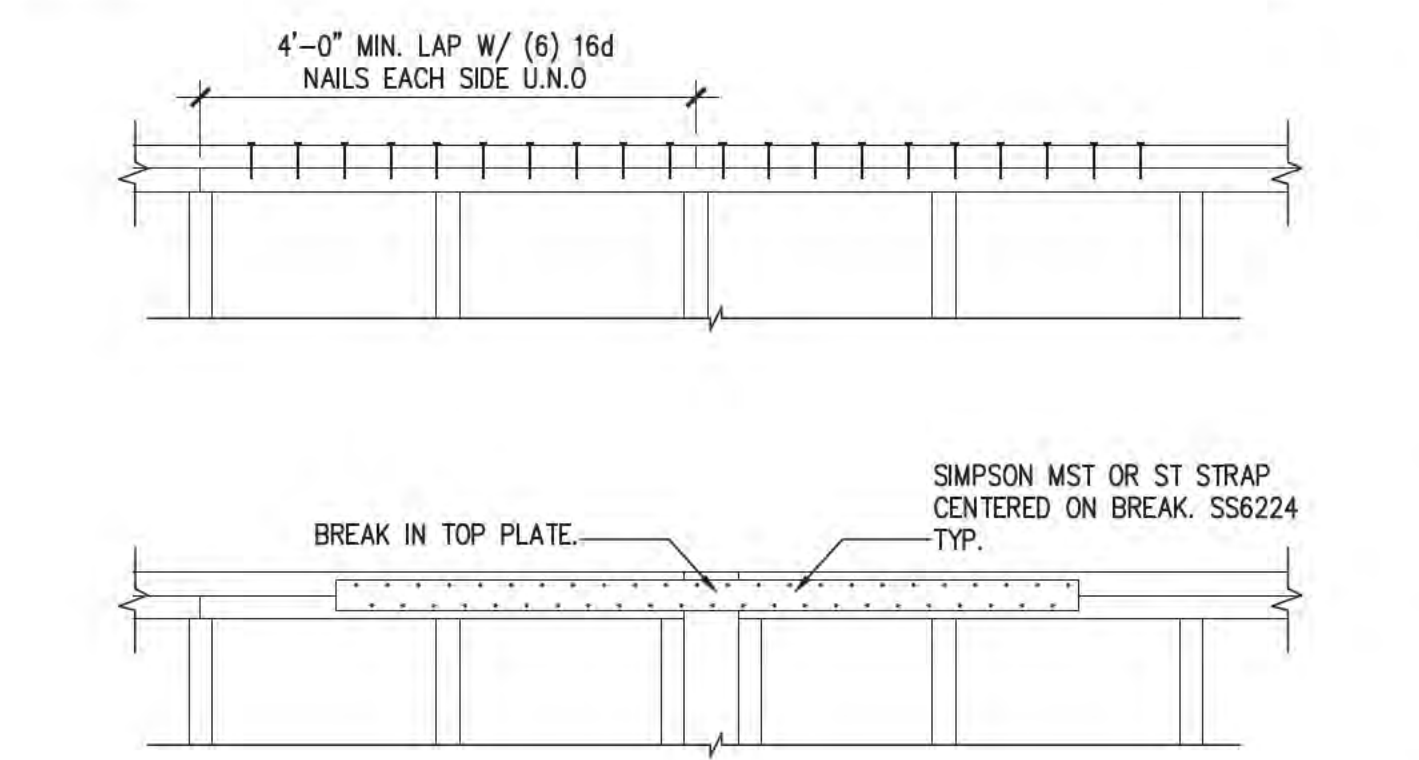
2 STEPPED FOOTING

1"=1'-0"



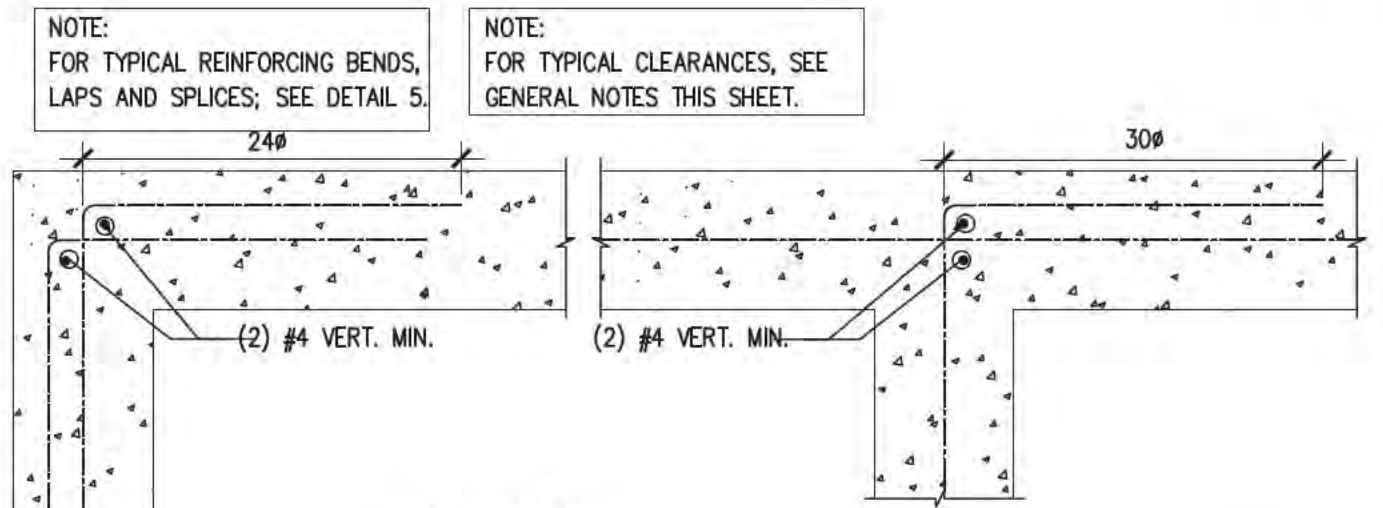
11 SHEAR TRANSFER

3"=1'-0"

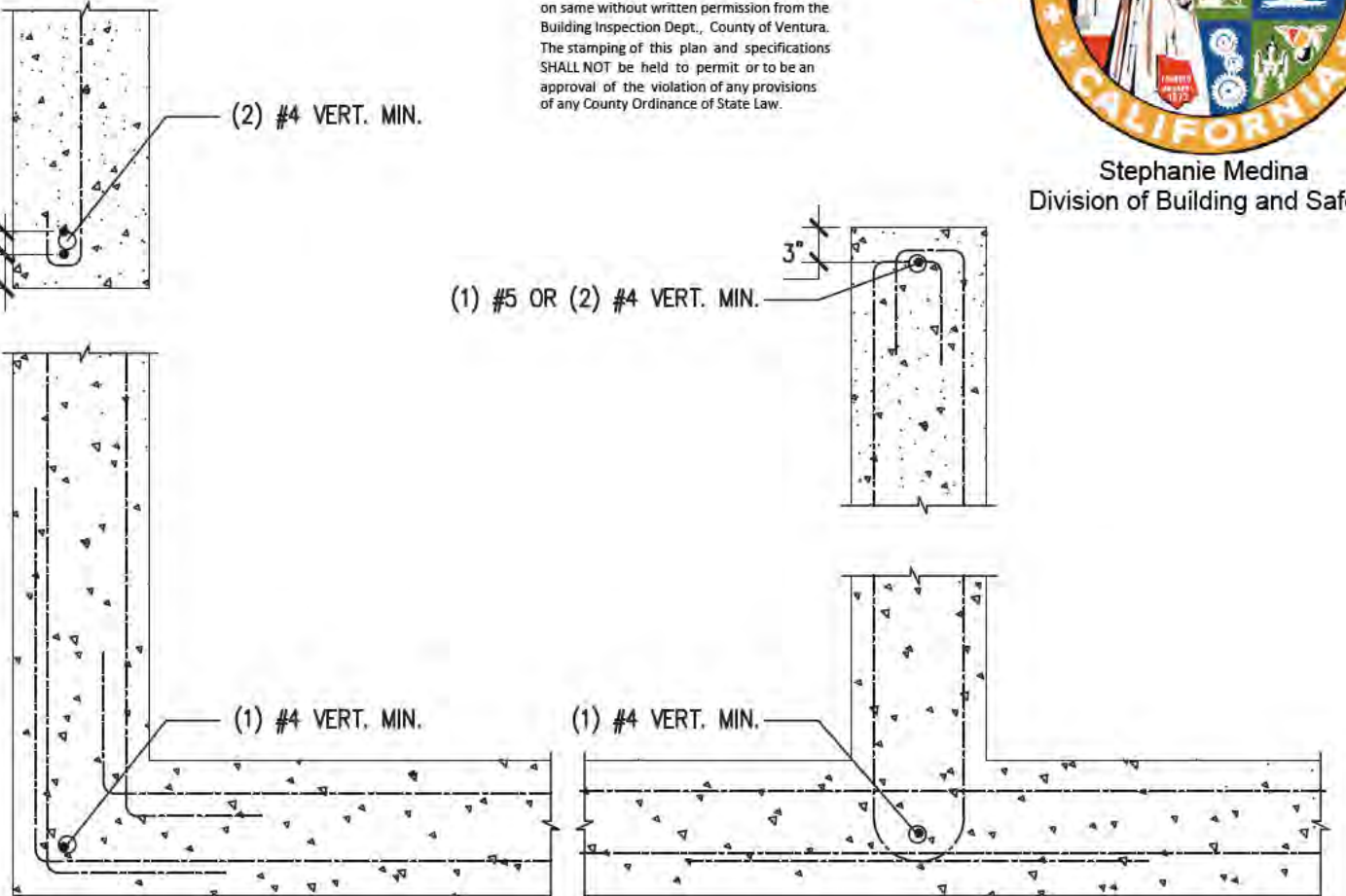


7 TOP PLATE SPLICE

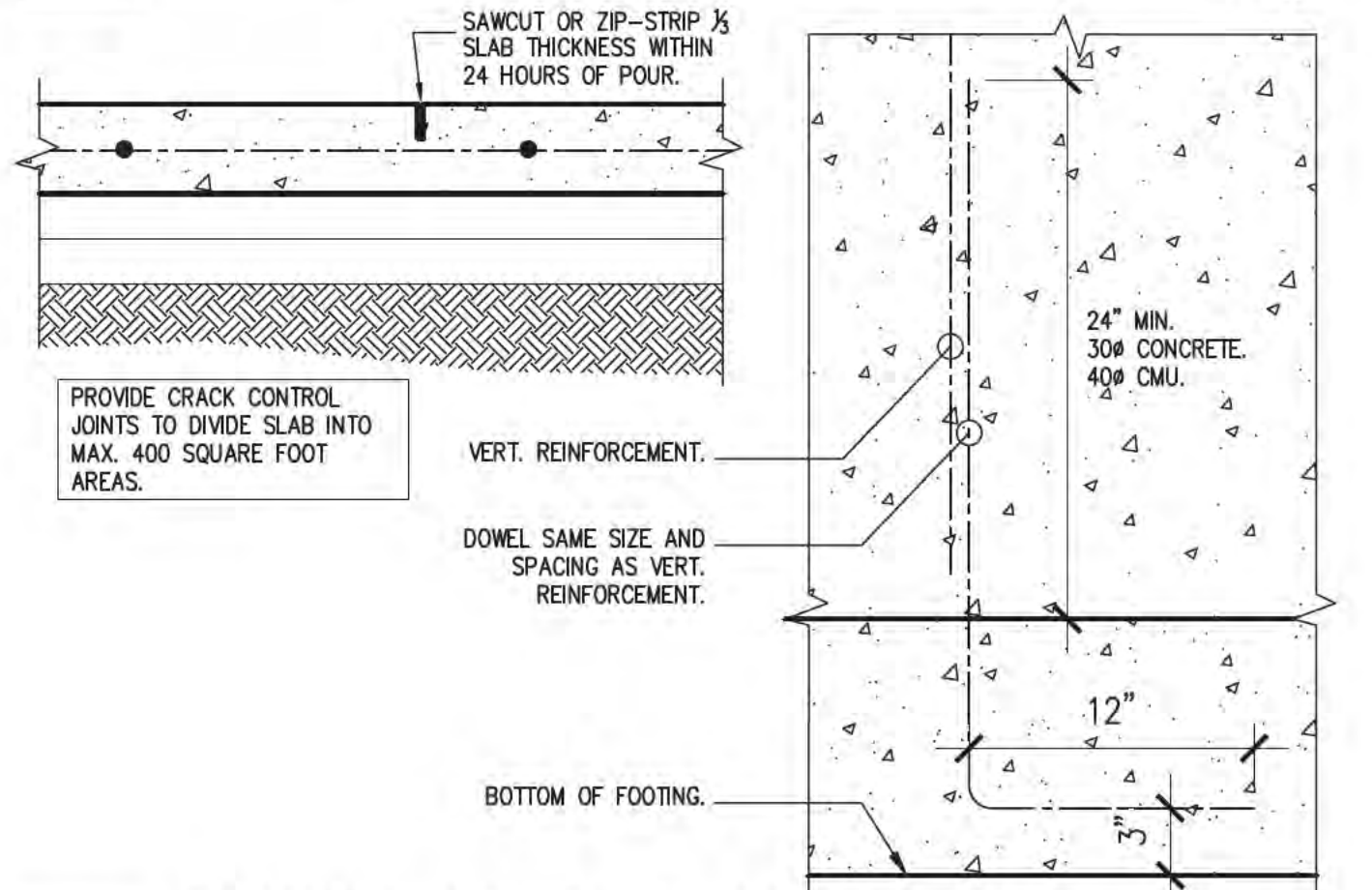
1"=1'-0"



1 LAYER



2 LAYERS



8 FOOTING DOWEL & CRACK CTL

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

4 REINFORCEMENT @ CORNERS

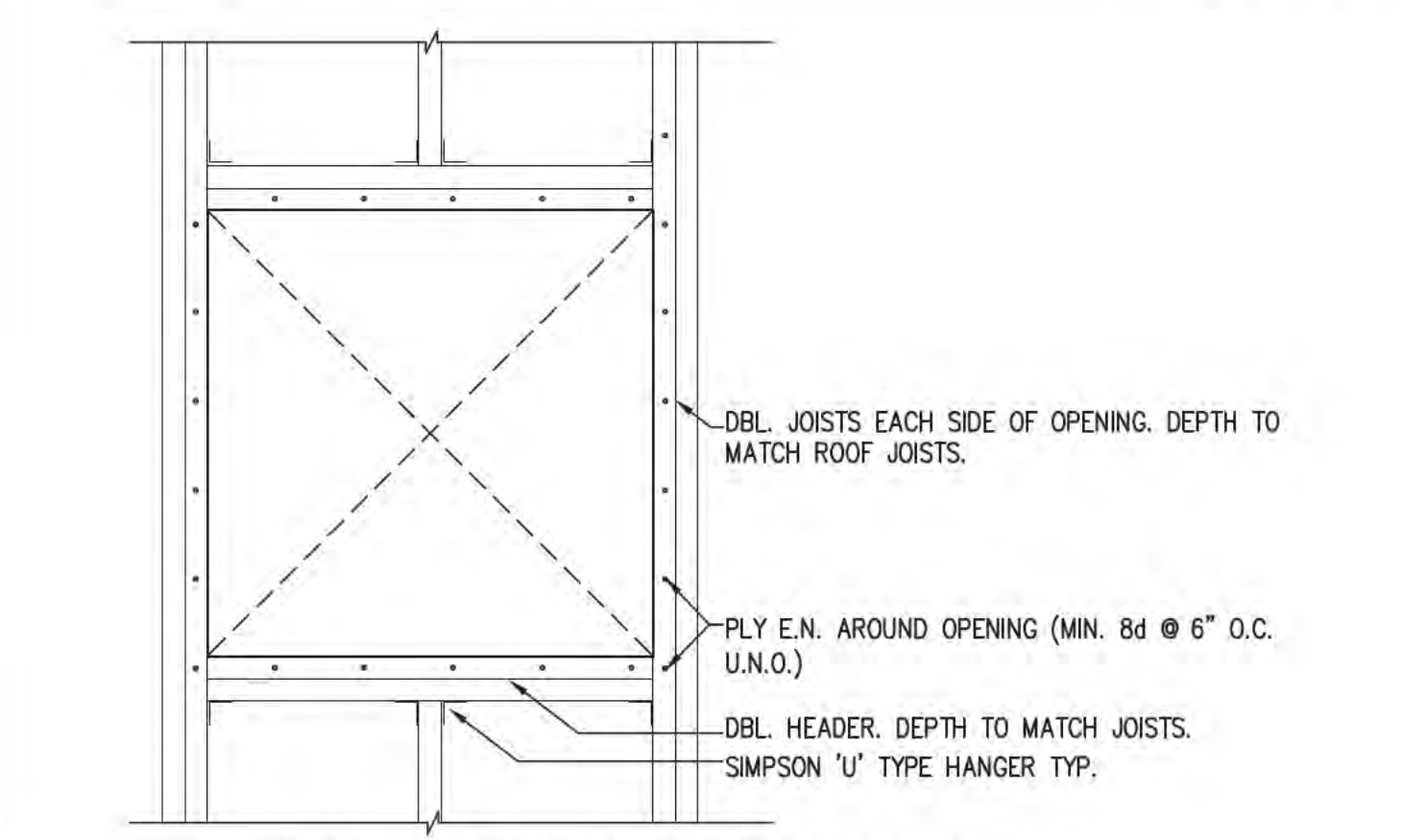
3/4"=1'-0"

**CUTS, NOTCHES AND BORED HOLES IN JOISTS & RAFTERS**

**GENERAL NOTES:**  
 1. Square holes and notches not recommended. Tapered corners recommended.  
 2. Cuts, notches and bored holes are not to be located adjacent to unsound or loose knots.  
 3. The total area of groups of holes may not be greater than the maximum hole allowed, and must be 24" apart.

**MAXIMUM SIZES FOR CUTS IN FLOOR JOISTS**

Joist Size	Max. Hole	Max. Notch Depth	Max. End Notch
2x4	none	none	none
2x6	1-1/2"	7/8"	1-3/8"
2x8	2-3/8"	1-1/4"	1-7/8"
2x10	3"	1-1/2"	2-3/8"
2x12	3-3/4"	1-7/8"	2-7/8"



12 TYP. OPENING IN FRAMING

1"=1'-0"

Revisions		
No.	Description	Date

Laura B. Reader, P.E.  
 Structural Design and Consulting  
 Civil Engineer, C.E. #59400  
 805-985-1700  
 reader.lbr@gmail.com



STANDARD  
 STRUCTURAL  
 DETAILS

PROPOSED CONSTRUCTION

DRAWN	CMS
CHECKED	
DATE	11-04-2021
SCALE	AS NOTED
JOB NO.	21-18-20
SHEET	

S0.2

C21-001401



Shearwall Schedule

Sym	Sheathing and Nailing	Sill Anchorage	A35	Remarks
6	15/32" Struc 1 Ply (32/16) With 10d @ 6,6,12 V allow = 340 plf	5/8" dia. A.B. @ 32" o.c.	16" o.c.	
WSW	Simpson strongwall WSW 12 x 8 V allow = 1030#	(2)7/8" dia. Std. all-thrd	16" o.c.	Install per ICC-ES ESR 2652

Plywood per PS 1-09 or OSB per PS 2-10. Nails to be 3/8" from edge of ply panel.  
All plywood to be APA rated 5-ply. Use full panels wherever possible.  
No ply panels less than 24" width allowed.  
8d common nails- .131" x 2 1/2"  
10d common nails- .148" x 2 3/8"

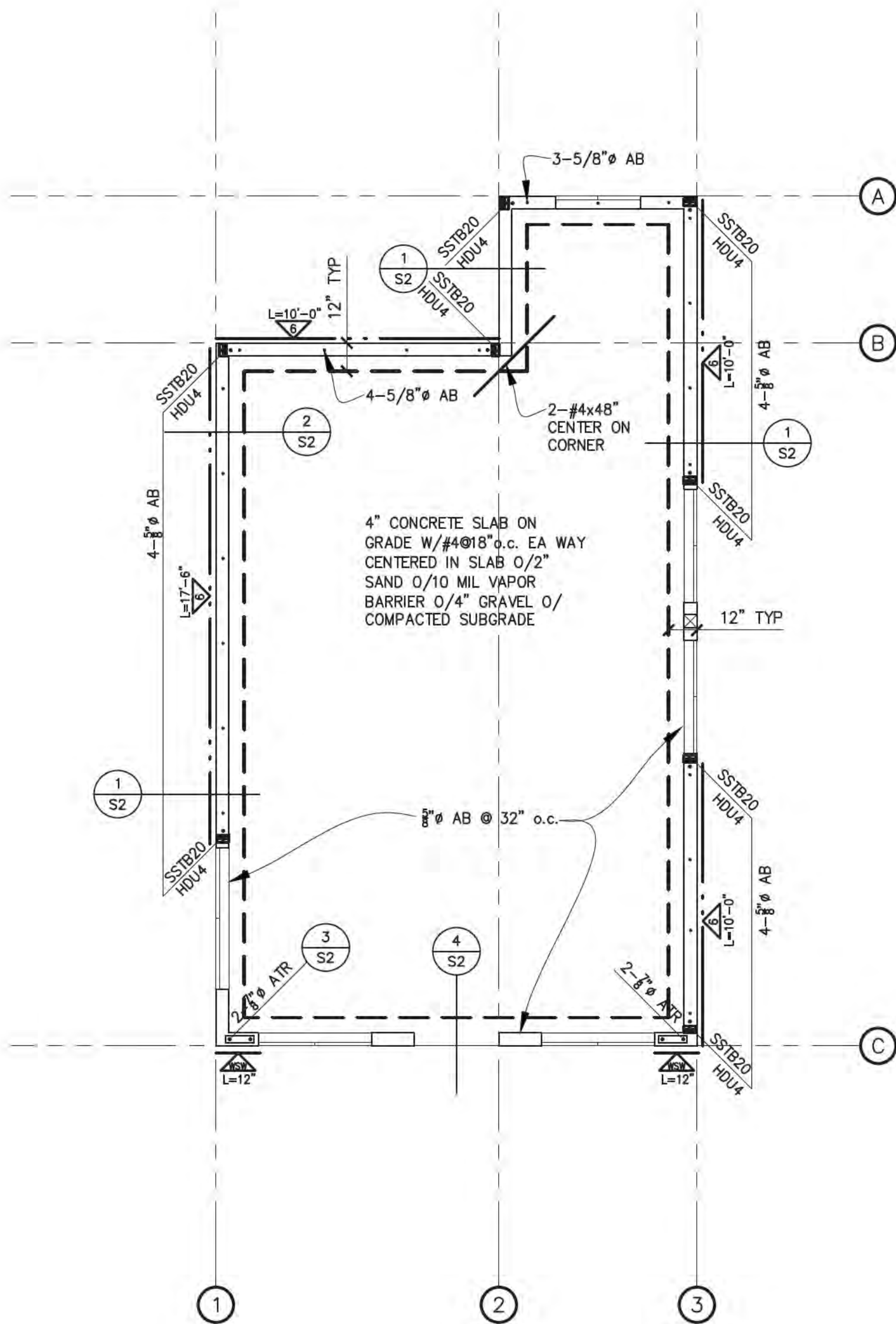
Structural Design Criteria-166 N. Encinal Ave.

CBC 2019, ASCE 7-16  
Allowable Soil Bearing Pressure=1500 psf per County of Ventura Soils Waiver

Roof Live Load = 20 psf                      Dead Load = 12 psf

**Wind Design**  
Ultimate Wind Design Speed= 93 mph, Nominal Wind Design Speed= 85 mph  
Risk Category II  
Wind Exposure = C  
Design Wind Pressure Coefficient                      Windward Walls = 13.8 psf  
Leeward Walls = 9.7 psf  
Windward Roof = 9.7 psf  
Leeward Roof = 11.04 psf  
  
Internal Pressure Coefficient= GCpi=+0.18, -0.18

**Seismic Design**  
Equivalent Lateral Force Procedure  
Seismic Importance Factor I = 1.0  
Risk Category = II  
Seismic parameters per USGS website  
Site Class = D default  
Seismic Design Category = D  
Sms= 2.24 g Sm1= g Ss=1.867 g S1=.707 g Sds=1.494 g Sd1=.822 g  
Fa = 1.2 Fv= null  
Basic shear force resisting system- light frame shear panels R=6.5  
Cs=Sds/(R/I)= .230 W

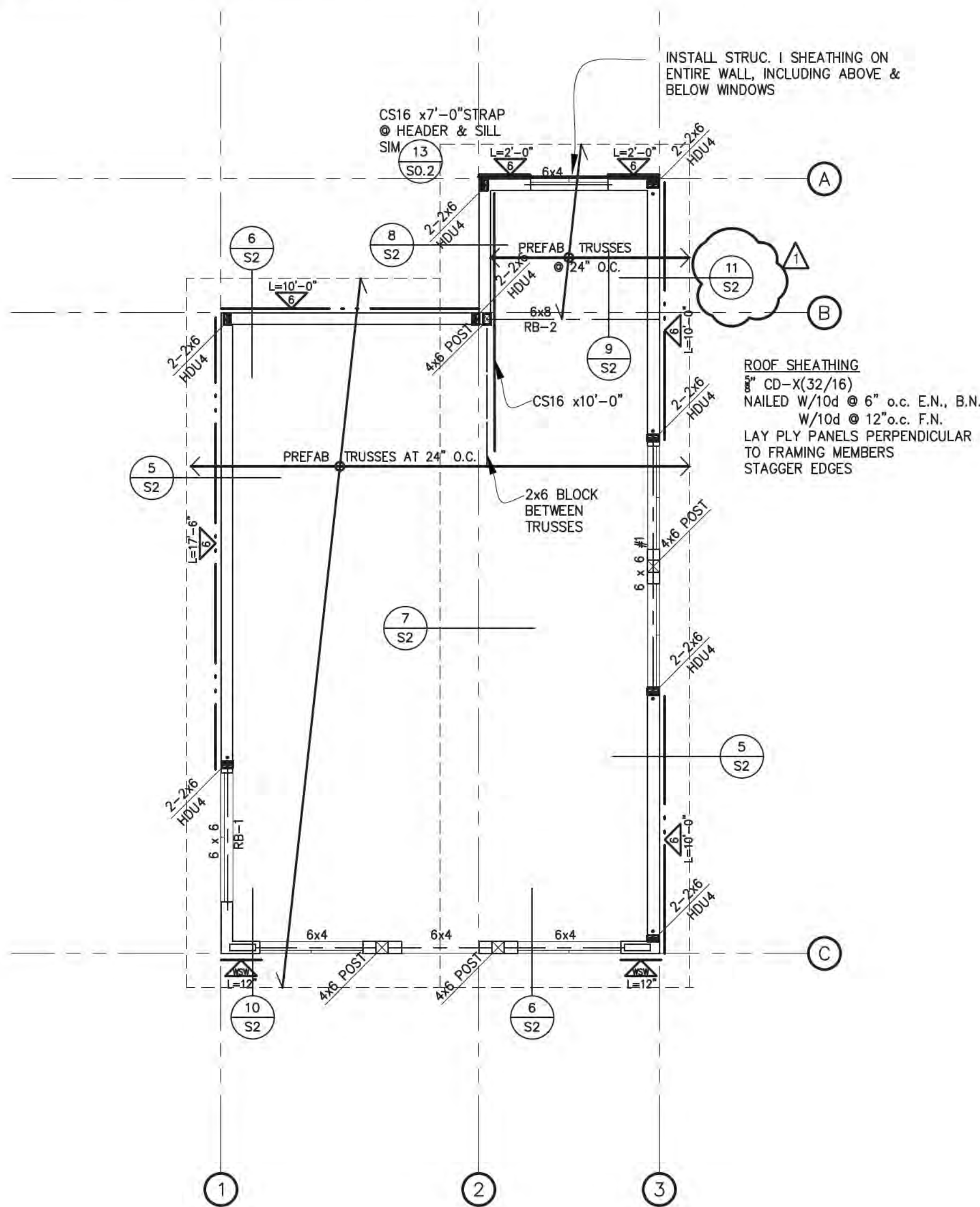


FOUNDATION PLAN

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

FOUNDATION NOTES:

- PREPARE SITE PER APPROVED "FOUNDATION AND SOILS INVESTIGATION WAIVER REQUEST" FROM VENTURA COUNTY.
  - PROPOSED FLOOR AREA DOES NOT EXCEED 1000 sf
  - PROPOSED CONSTRUCTION IS ON AN EXISTING NATURAL, LEVEL LOT WITH NO FILL
- ALL HOLDDOWN ANCHORS TO BE SET IN PLACE BY TEMPLATE PRIOR TO FOUNDATION INSPECTION..



ROOF FRAMING PLAN

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

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03/03/2022



Stephanie Medina  
Division of Building and Safety

Revisions		
No.	Description	Date
1	PLAN CHECK	2.8.22

Laina B. Reeder, P.E.  
Structural Design and Consulting  
Civil Engineer, CE #99400  
805 985 1700 reeder.lb@gmail.com



FOUNDATION PLAN  
C21-001401

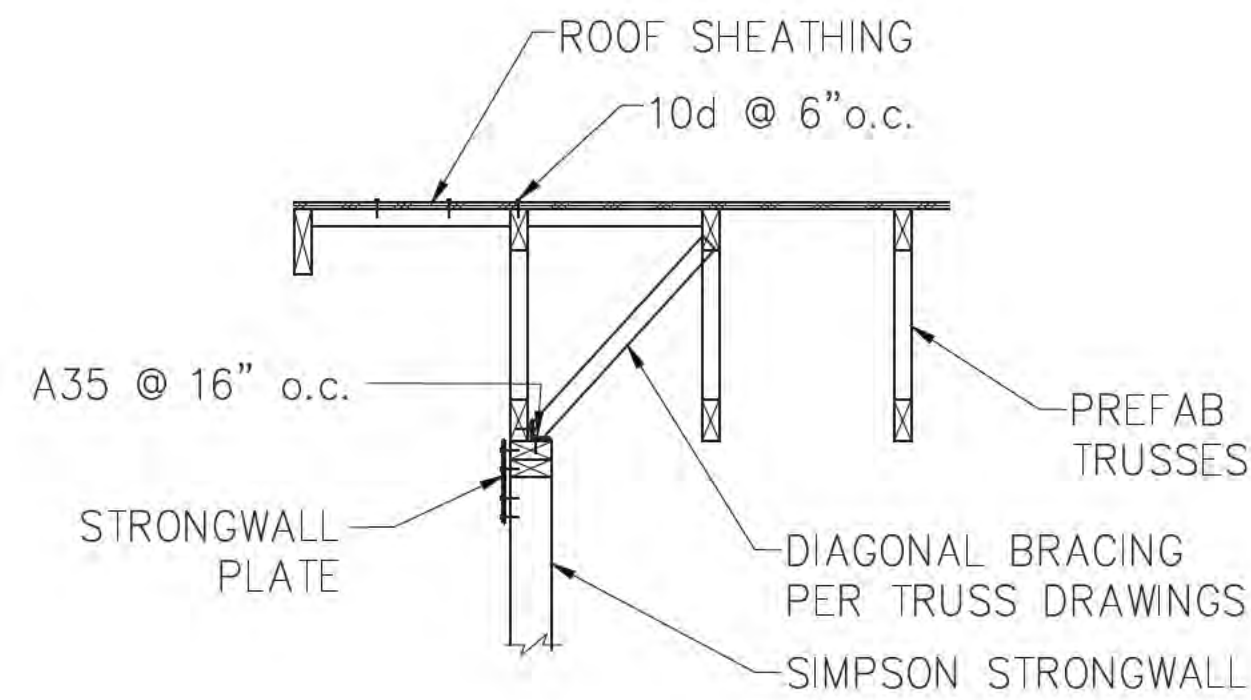
PROPOSED CONSTRUCTION

DRAWN  
LMM  
CHECKED

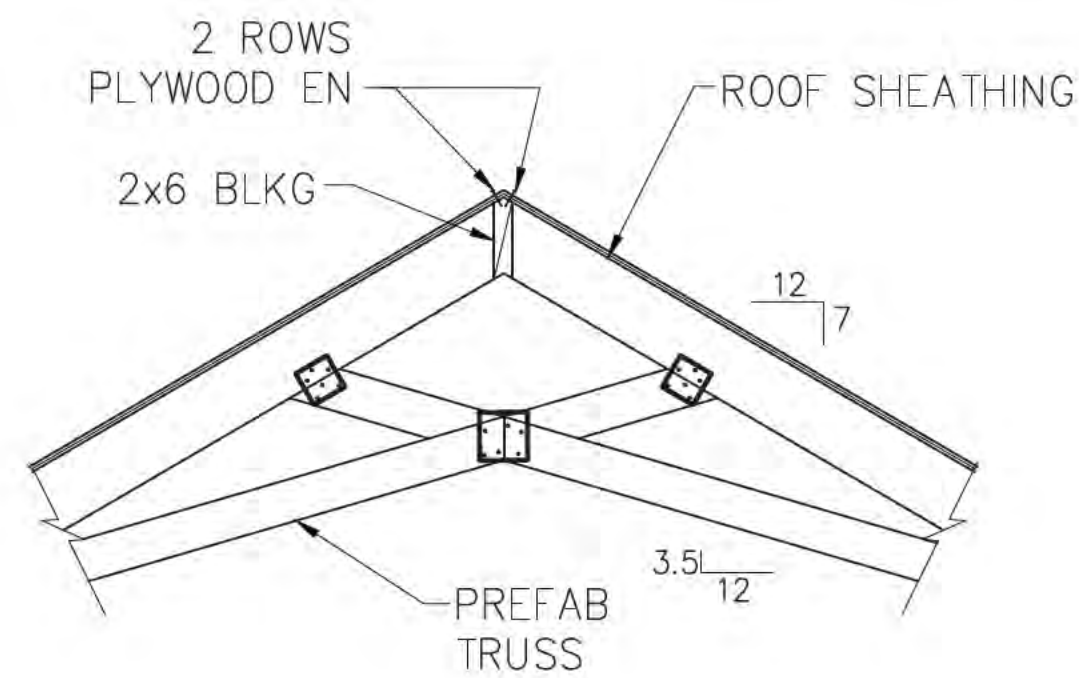
DATE  
11-04-2021  
SCALE  
AS NOTED  
JOB NO.  
21-10-20  
SHEET

S1

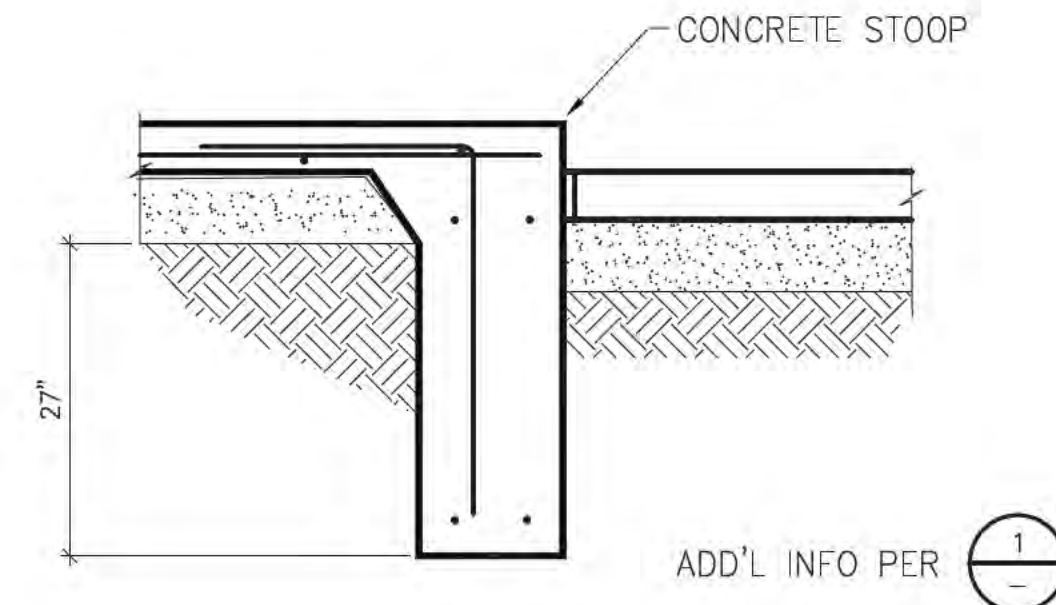




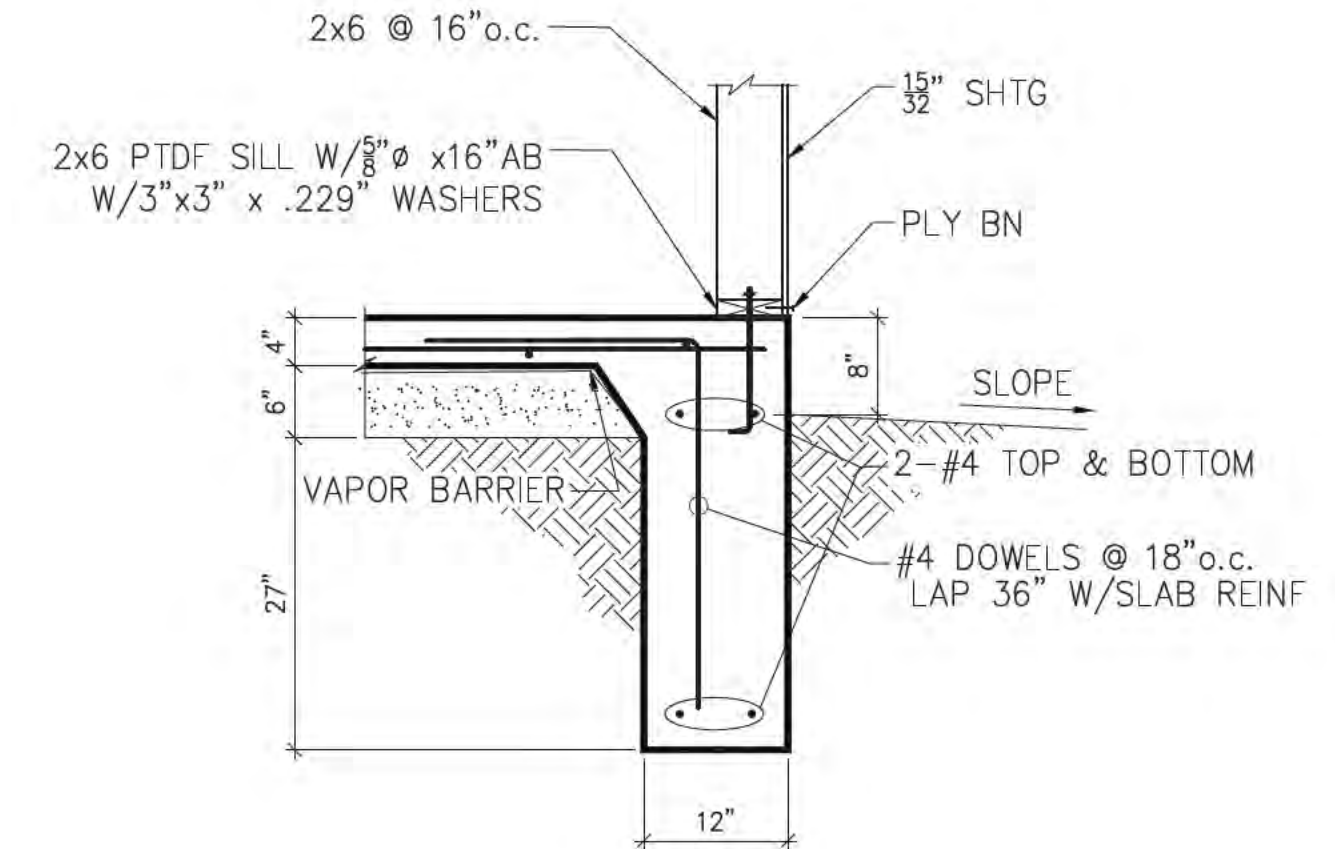
10 STRONGWALL 3/4"=1'-0"



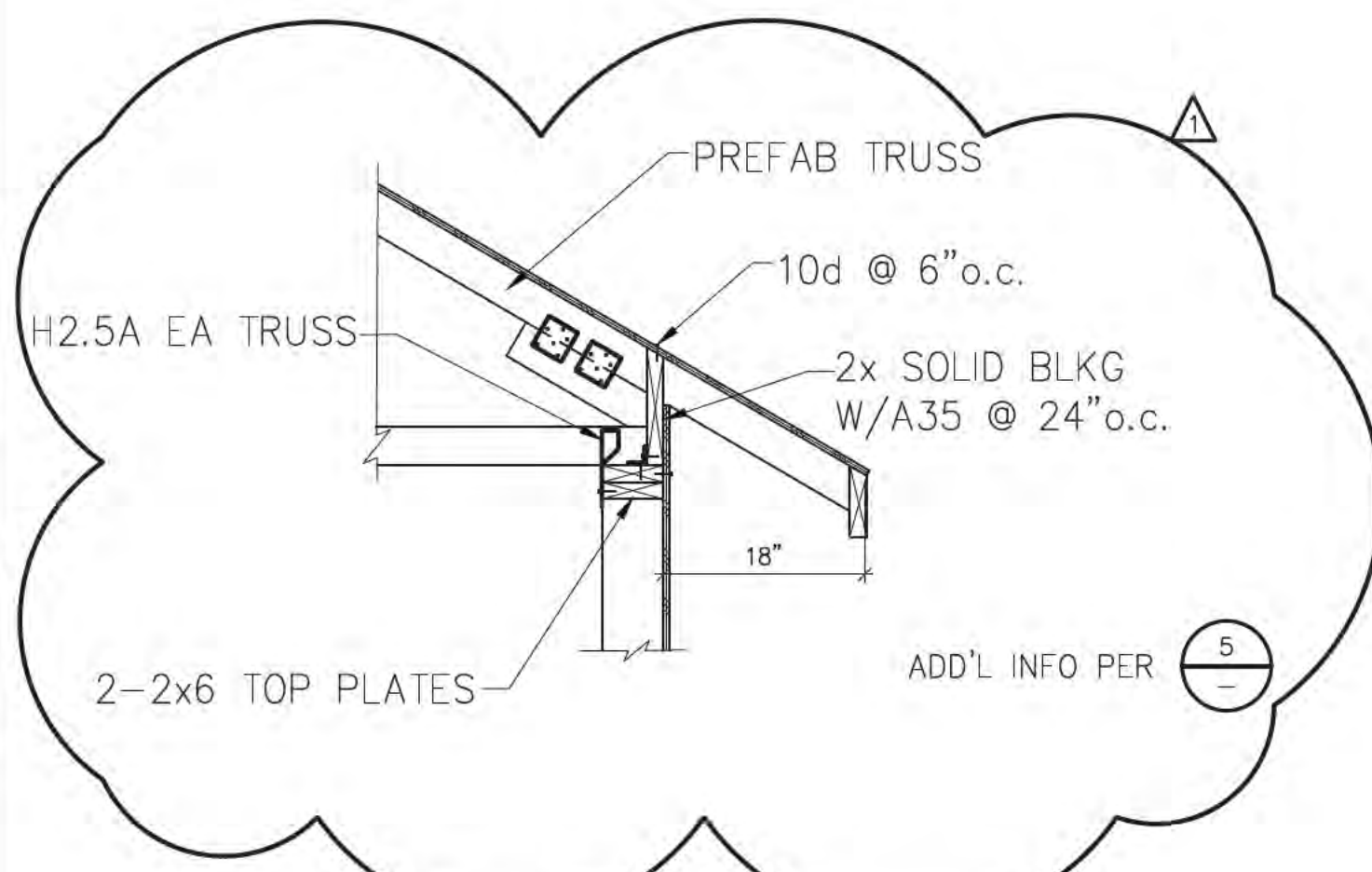
7 RIDGE BOARD 3/4"=1'-0"



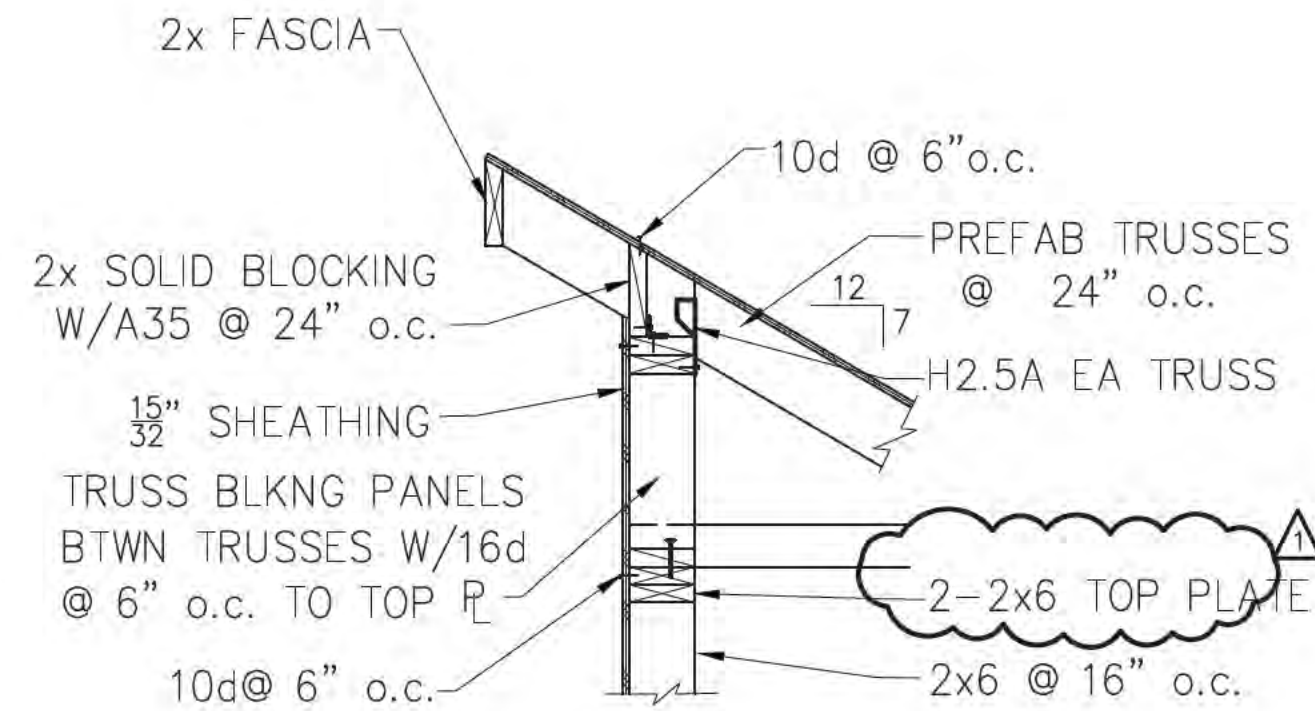
4 EXTERIOR FOOTING 3/4"=1'-0"



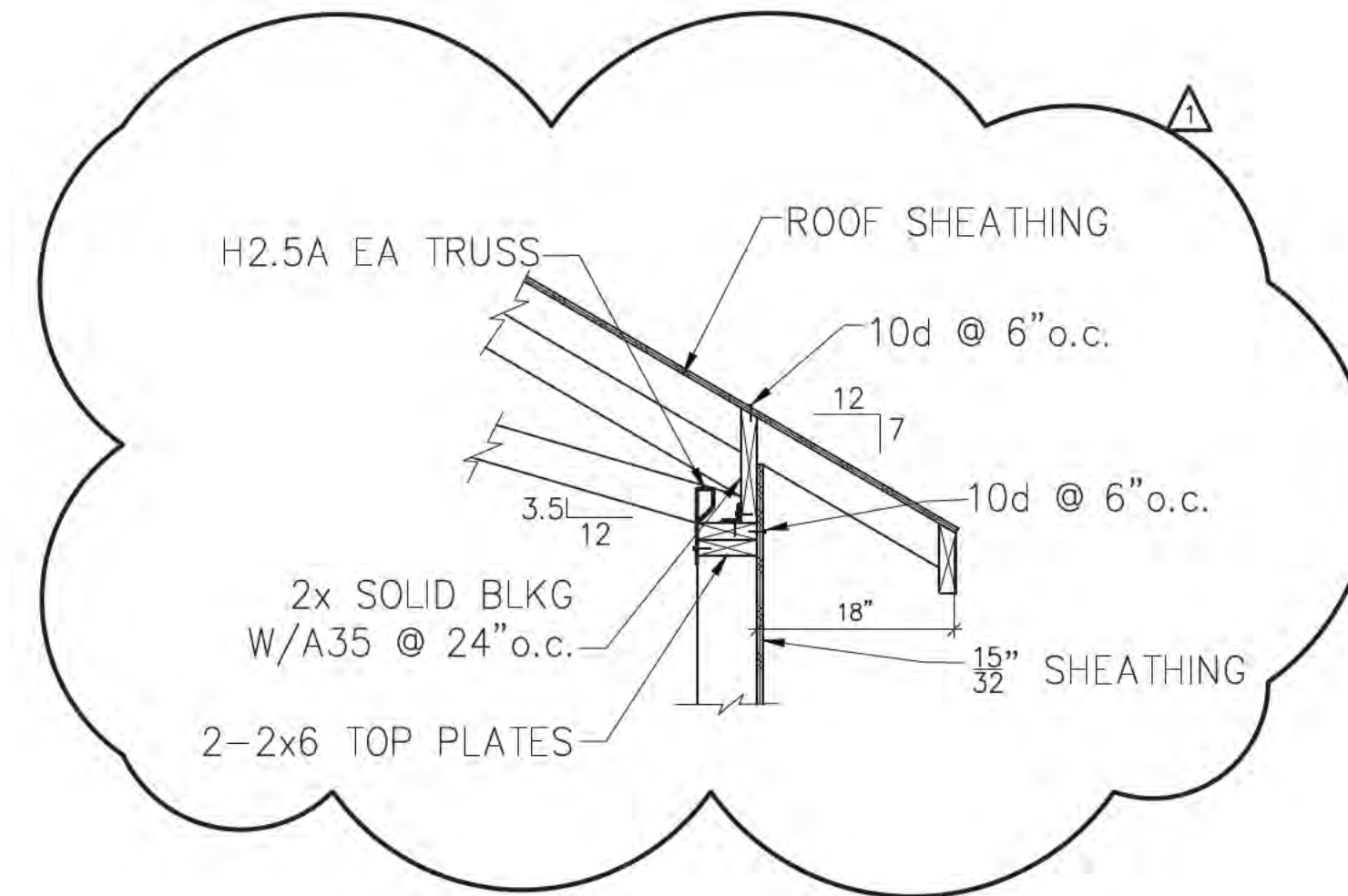
1 EXTERIOR FOOTING 3/4"=1'-0"



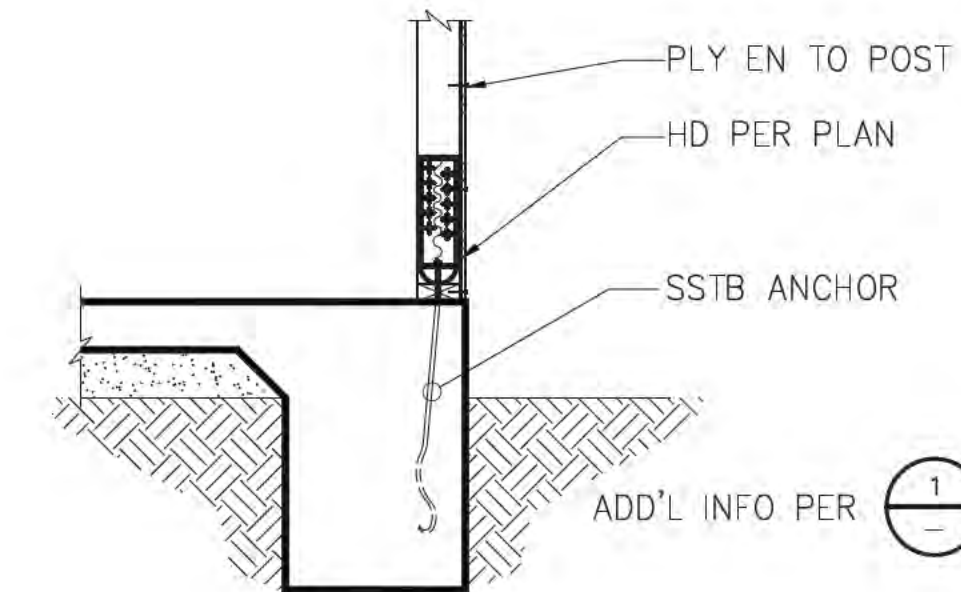
5 EAVE AT SCISSORS TRUSS 3/4"=1'-0"



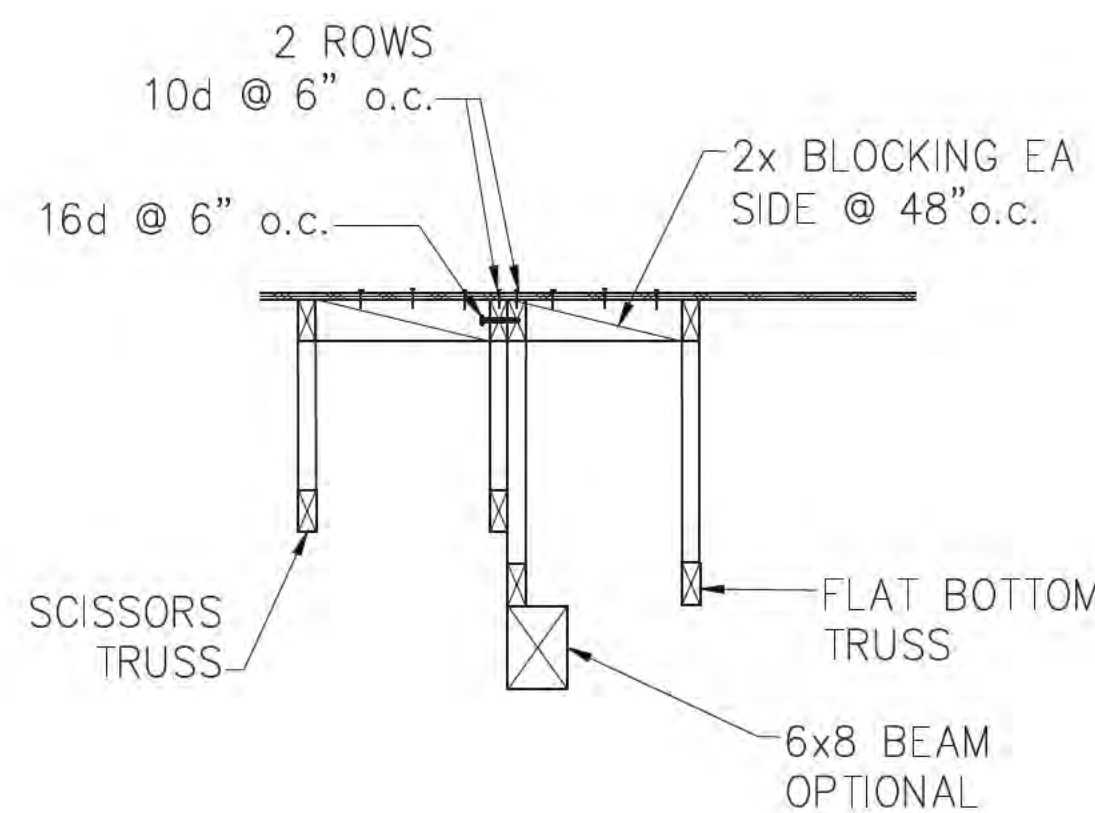
8 EAVE AT HIGH SIDE 3/4"=1'-0"



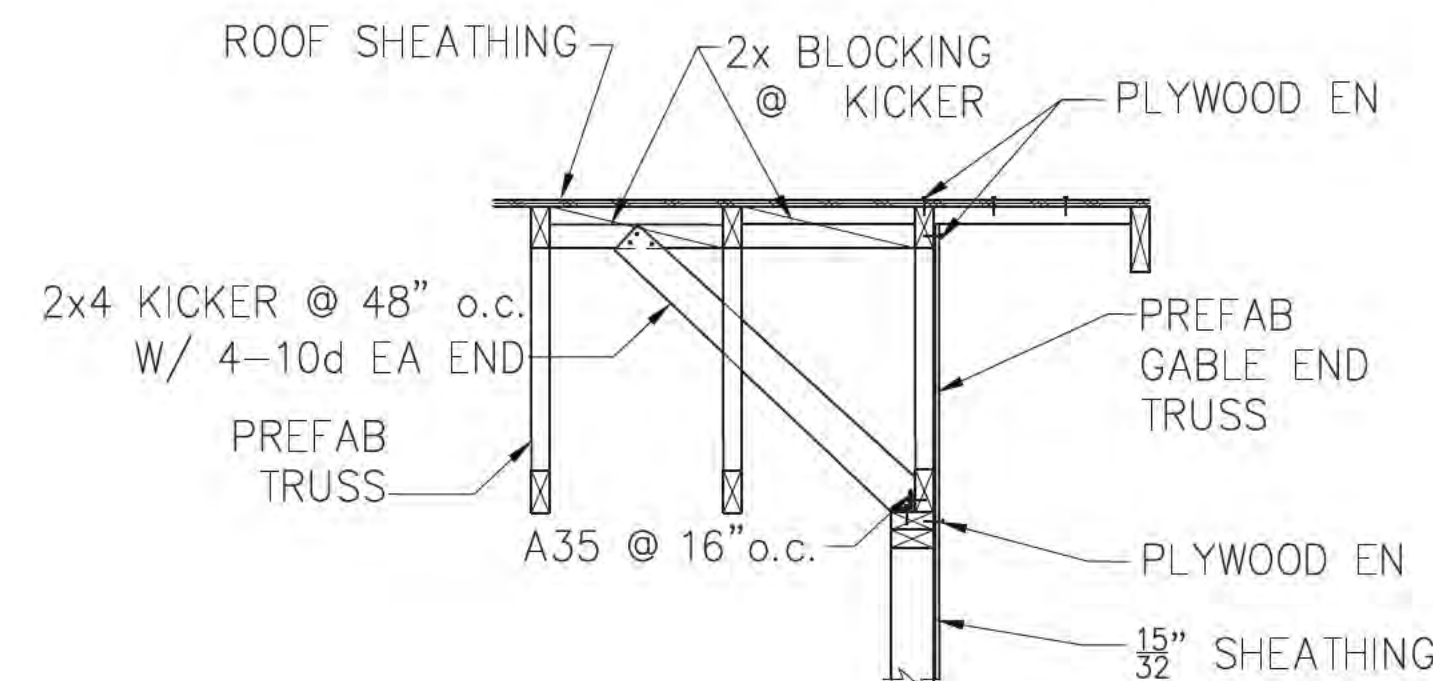
5 EAVE AT SCISSORS TRUSS 3/4"=1'-0"



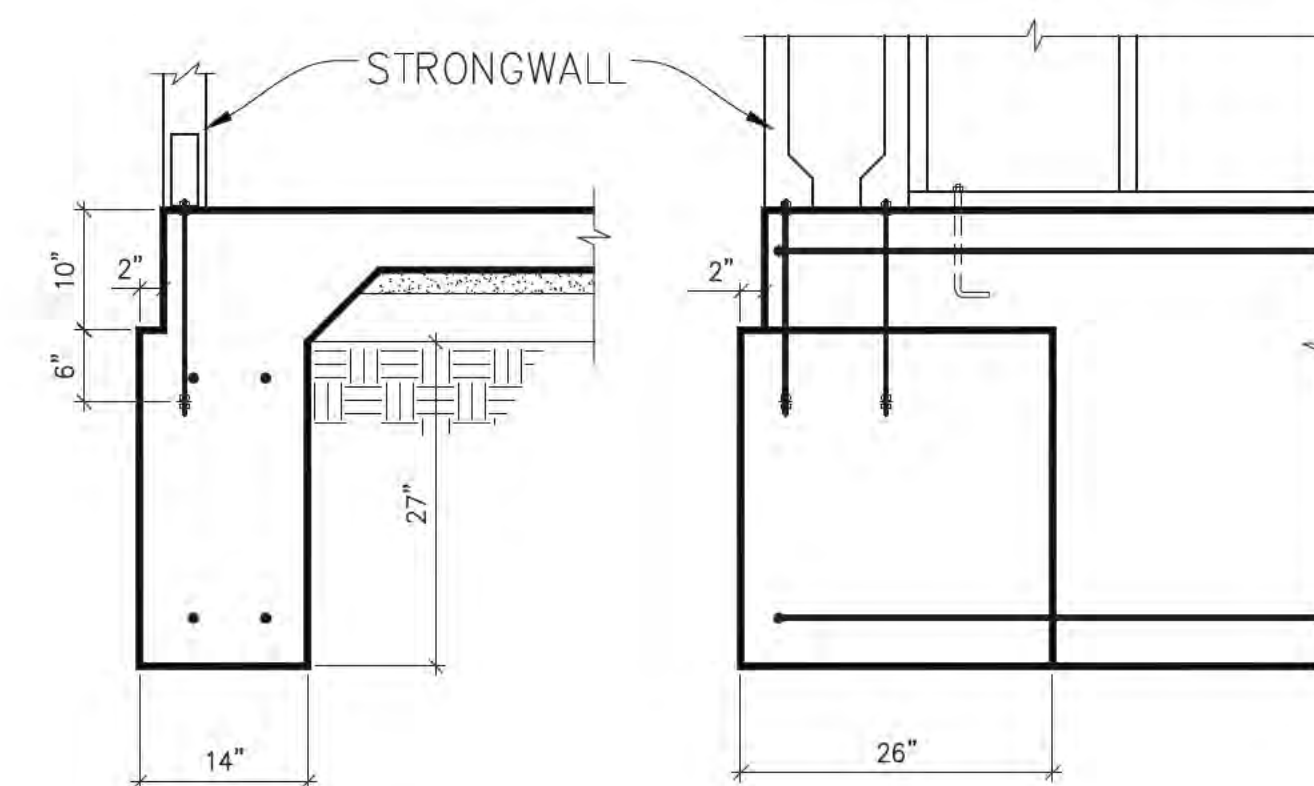
2 HOLDOWN 3/4"=1'-0"



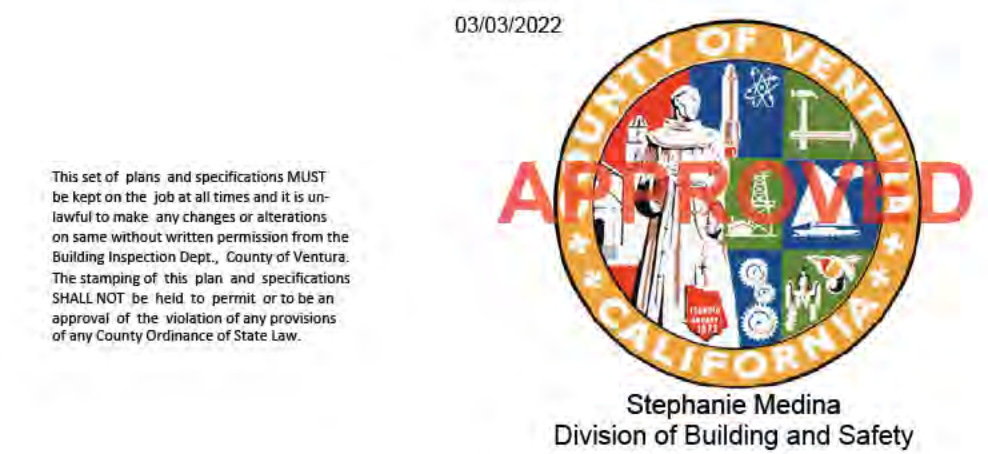
9 ROOF TRANSITION 3/4"=1'-0"



6 TYPICAL RAKE 3/4"=1'-0"



3 STRONGWALL FOUNDATION 3/4"=1'-0"



Revisions		
No.	Description	Date
1	PLAN CHECK	2.8.22

Laina B. Reader, P.E.,  
Structural Design and Consulting  
Civil Engineer, C.E. #99400  
805-985-1700 readerlb@gmail.com



STRUCTURAL  
DETAILS  
C21-001401

PROPOSED CONSTRUCTION

DRAWN  
LMM  
CHECKED  
DATE  
11-04-2021  
SCALE  
AS NOTED  
JOB NO.  
21-10-20  
SHEET

S2



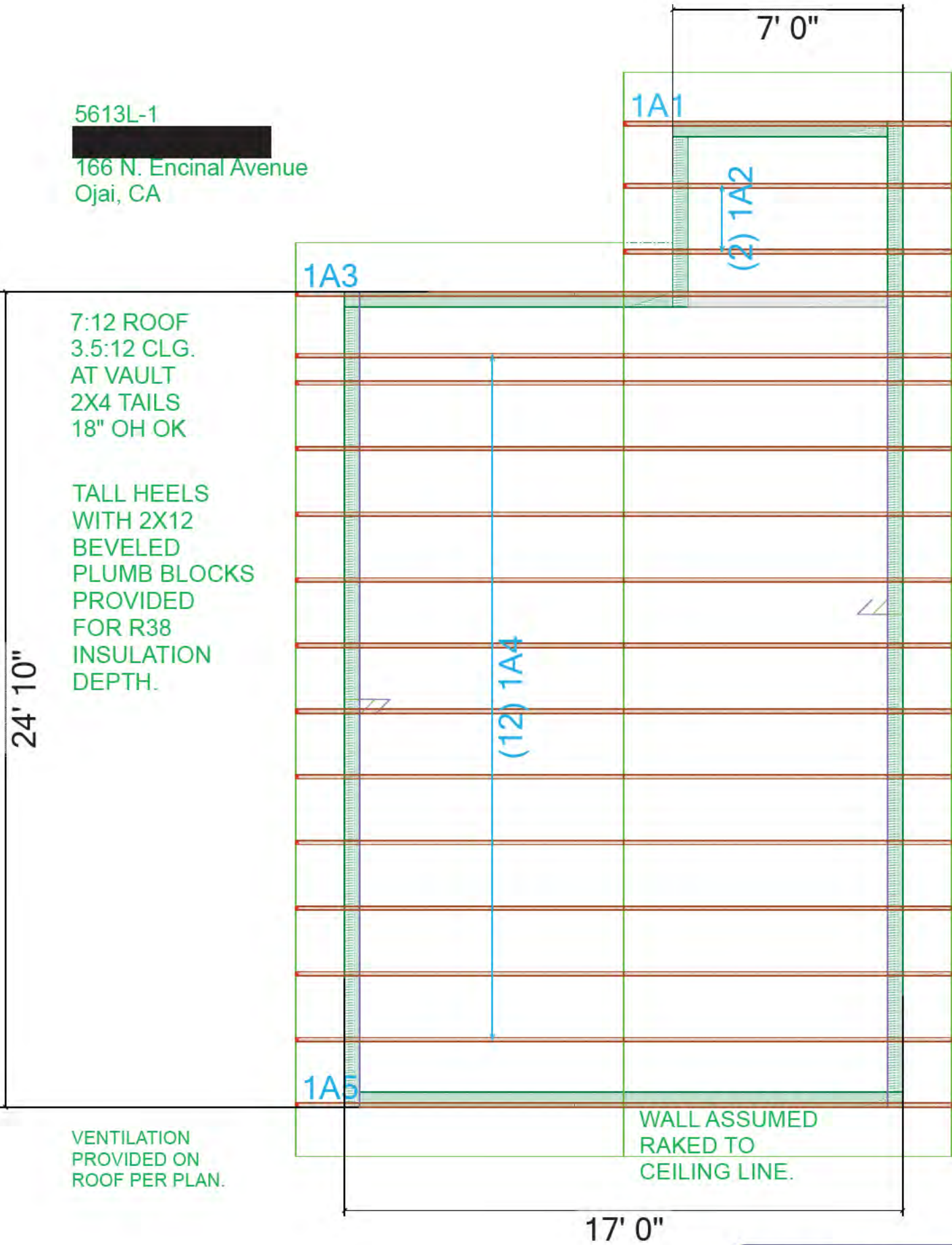
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Stephanie Medina  
Division of Building and Safety

C21-001401

5613L-1  
[REDACTED]  
166 N. Encinal Avenue  
Ojai, CA



**REVIEWED**  
By Laima Reeder at 3:12 pm, Feb 18, 2022



GENERAL INFORMATION					
01	Project Name	New Accessory Structure Unit			
02	Run Title	Title 24 Analysis			
03	Project Location	166 North Encinal Avenue			
04	City	Ojai	05	Standards Version	2019
06	Zip code	93023	07	Software Version	EnergyPro 8.2
08	Climate Zone	16	09	Front Orientation (deg/ Cardinal)	282
10	Building Type	Single family	11	Number of Dwelling Units	1
12	Project Scope	AdditionOnly	13	Number of Bedrooms	4
14	Addition Cond. Floor Area (ft <sup>2</sup> )	458	15	Number of Stories	1
16	Existing Cond. Floor Area (ft <sup>2</sup> )	1815	17	Fenestration Average U-factor	0.3
18	Total Cond. Floor Area (ft <sup>2</sup> )	2273	19	Glazing Percentage (%)	15.72%
20	ADU Bedroom Count	n/a	21	ADU Conditioned Floor Area	n/a
22	Is Natural Gas Available?	Yes			

Addition Alone Project Analysis Parameters					
01	02	03	04	05	06
Existing Area (excl. new addition) (ft2)	Addition Area (excl. existing) (ft2)	Total Area (ft2)	Existing Bedrooms	Addition Bedrooms	Total Bedrooms
1815	458	2273	4	0	4

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

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Schema Version: rev 20200901

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FENESTRATION / GLAZING													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft <sup>2</sup> )	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
Window 4 sghg	Window	West Frame Wall	Front	282			1	14	0.3	NFRC	0.45	NFRC	Bug Screen
Window 5 sghg	Window	West Frame Wall	Front	282			1	14	0.3	NFRC	0.45	NFRC	Bug Screen
Door A swg	Window	West Frame Wall	Front	282			1	20	0.3	NFRC	0.45	NFRC	Bug Screen

SLAB FLOORS							
01	02	03	04	05	06	07	08
Name	Zone	Area (ft <sup>2</sup> )	Perimeter (ft)	Edge Insul. R-value and Depth	Edge Insul. R-value and Depth	Carpeted Fraction	Heated
Slab-on-Grade	New	458	94	none	0	80%	No

OPAQUE SURFACE CONSTRUCTIONS							
01	02	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
R-21 Wall	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O. C.	R-21	None / None	0.069	Inside Finish: Gypsum Board Cavity / Frame: R-21 / 2x6 Exterior Finish: 3 Coat Stucco
R-30 Roof Cathedral	Cathedral Ceilings	Wood Framed Ceiling	2x10 @ 16 in. O. C.	R-30	None / None	0.037	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: R-30 / 2x10 Inside Finish: Gypsum Board

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ENERGY USE SUMMARY				
Energy Use (kTDV/ft <sup>2</sup> -yr)	Standard Design	Proposed Design	Compliance Margin	Percent Improvement
Space Heating	82.65	82.61	0.04	0
Space Cooling	4.49	7.11	-2.62	-58.4
IAQ Ventilation	0	0	0	
Water Heating	45.07	40.65	4.42	9.8
Self Utilization/Flexibility Credit	n/a	0	0	n/a
Compliance Energy Total	132.21	130.37	1.84	1.4

**REQUIRED SPECIAL FEATURES**  
The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.  
• Variable capacity heat pump compliance option (verification details from VCHP Staff report, Appendix B, and RA3)

**HERS FEATURE SUMMARY**  
The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry  
Building-Level Verifications:  
• Quality insulation installation (QII)  
Cooling System Verifications:  
• Verified Refrigerant Charge  
• Airflow in habitable rooms (SC3.1.4.1.7)  
Heating System Verifications:  
• Verified heat pump rated heating capacity  
• Wall-mounted thermostat in zones greater than 150 ft<sup>2</sup> (SC3.4.5)  
• Ductless indoor units located entirely in conditioned space (SC3.1.4.1.8)  
HVAC Distribution System Verifications:  
• --None--  
Domestic Hot Water System Verifications:  
• --None--

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

WATER HEATING SYSTEMS						
01	02	03	04	05	06	07
Name	System Type	Distribution Type	Water Heater Name (#)	Solar Heating System	Compact Distribution	HERS Verification
DHW Sys 1	Domestic Hot Water (DHW)	Standard Distribution System	DHW Heater 1 (1)	n/a	None	n/a

WATER HEATERS													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Heating Element Type	Tank Type	# of Units	Tank Vol. (gal)	Energy Factor or Efficiency	Input Rating or Pilot	Tank Insulation R-value (Int/Ext)	Standby Loss or Recovery Eff	1st Hr. Rating or Flow Rate	NEEA Heat Pump Brand or Model	Tank Location or Ambient Condition	Status	Verified Existing Condition
DHW Heater 1	Gas	Consumer Instantaneous	1	0	0.93 UEF	<= 200 kBTU/hr	0	n/a	n/a	n/a	n/a	New	n/a

WATER HEATING - HERS VERIFICATION							
01	02	03	04	05	06	07	08
Name	Pipe Insulation	Parallel Piping	Compact Distribution	Compact Distribution Type	Recirculation Control	Central DHW Distribution	Shower Drain Water Heat Recovery
DHW Sys 1 - 1/1	Not Required	Not Required	Not Required	None	Not Required	Not Required	Not Required

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ZONE INFORMATION						
01	02	03	04	05	06	07
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft <sup>2</sup> )	Avg. Ceiling Height	Water Heating System 1	Water Heating System 2
New	Conditioned	Heating/Cooling1	458	10.5	DHW Sys 1	N/A

OPAQUE SURFACES								
01	02	03	04	05	06	07	08	09
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft <sup>2</sup> )	Window and Door Area (ft2)	Tilt (deg)	Wall Exceptions
North Frame Wall	New	R-21 Wall	12	Left	260.8	6	90	none
East Frame Wall	New	R-21 Wall	102	Back	177.6	6	90	none
South Frame Wall	New	R-21 Wall	192	Right	240.2	12	90	none
West Frame Wall	New	R-21 Wall	282	Front	177.6	48	90	none

OPAQUE SURFACES - CATHEDRAL CEILINGS										
01	02	03	04	05	06	07	08	09	10	11
Name	Zone	Construction	Azimuth	Orientation	Area (ft <sup>2</sup> )	Skylight Area (ft <sup>2</sup> )	Roof Rise (x in 12)	Roof Reflectance	Roof Emittance	Cool Roof
R-30 Roof Cathe.	New	R-30 Roof Cathedral	0	n/a	481	0	7	0.1	0.85	No

FENESTRATION / GLAZING													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft <sup>2</sup> )	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
Window 6 slid	Window	North Frame Wall	Left	12			1	6	0.3	NFRC	0.45	NFRC	Bug Screen
Window 1 sghg	Window	East Frame Wall	Back	102			1	6	0.3	NFRC	0.45	NFRC	Bug Screen
Window 2 slid	Window	South Frame Wall	Right	192			1	6	0.3	NFRC	0.45	NFRC	Bug Screen
Window 3 slid	Window	South Frame Wall	Right	192			1	6	0.3	NFRC	0.45	NFRC	Bug Screen

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SPACE CONDITIONING SYSTEMS													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	System Type	Heating Unit Name	Cooling Unit Name	Fan Name	Distribution Name	Required Thermostat Type	Status	Verified Existing Condition	Heating Equipment Count	Cooling Equipment Count			
Heating/Cooling1	Heat pump heating cooling	Heat Pump System 1	Heat Pump System 1	n/a	n/a	Setback	New	NA	1	1			

HVAC - HEAT PUMPS										
01	02	03	04	05	06	07	08	09	10	11
Name	System Type	Number of Units	HSPP/COP	Cap 47	Cap 17	SEER	EER/CEER	Zonally Controlled	Compressor Type	HERS Verification
Heat Pump System 1	VCHP-ductless	1	8.2	17000	12750	14	11.7	Not Zonal	Single Speed	Heat Pump System 1-her's-htpump

HVAC HEAT PUMPS - HERS VERIFICATION								
01	02	03	04	05	06	07	08	09
Name	Verified Airflow	Airflow Target	Verified EER	Verified SEER	Verified Refrigerant Charge	Verified HSPF	Verified Heating Cap 47	Verified Heating Cap 17
Heat Pump System 1-her's-htpump	Not Required	0	Not Required	Not Required	Yes	No	Yes	Yes

VARIABLE CAPACITY HEAT PUMP COMPLIANCE OPTION - HERS VERIFICATION									
01	02	03	04	05	06	07	08	09	10
Name	Certified Low-Static VCHP System	Airflow to Habitable Rooms	Ductless Units in Conditioned Space	Wall Mount Thermostat	Air Filter Sizing & Pressure Drop Rating	Low Leakage Ducts in Conditioned Space	Minimum Airflow per RA3.3 and SC3.3.3.4.1	Certified non-continuous Fan	Indoor Fan not Running Continuously
Heat Pump System 1	Not required	Required	Required	Required	Not required	Not required	Not required	Not required	Not required

**PROJECT NOTES**

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TITLE 24 ENERGY ANALYSIS



CERTIFICATE OF COMPLIANCE

Project Name: New Accessory Structure Unit

Calculation Description: Title 24 Analysis

Attached Heating & Cooling load summary is submitted as part of the calculations required by the current regulations. DO NOT USE FOR ACTUAL HEATING & AC DESIGN.

Calculation Date/Time: 2021-12-08T13:16:58-08:00

Input File Name: 21112401\_Acces\_R01.rbd19x

CF1R-PRF-01E

(Page 7 of 8)

CERTIFICATE OF COMPLIANCE

Project Name: New Accessory Structure Unit

Calculation Description: Title 24 Analysis

Calculation Date/Time: 2021-12-08T13:16:58-08:00

Input File Name: 21112401\_Acces\_R01.rbd19x

CF1R-PRF-01E

(Page 8 of 8)

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:

Marcos Rendon

Documentation Author Signature:

Marcos Rendon

Company:

Solargy, Inc.

Signature Date:

12/08/2021

Address:

22028 Ventura Blvd Suite 207

CEA/HERS Certification Identification (If applicable):

818-347-6096

City/State/Zip:

Woodland Hills, CA 91364

Phone:

818-347-6096

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury under the laws of the State of California:

- 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.
- 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.
- 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:

Company:

Address:

166 North Encinal Avenue

City/State/Zip:

Ojai, CA 93023

Responsible Designer Signature:

Date Signed:

12/08/2021

License:

Phone:

Digitally signed by ConSol Home Energy Efficiency Rating System Services, Inc. (CHEERS). This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.

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RESIDENTIAL MEASURES SUMMARY

RMS-1

Project Name	Building Type	<input checked="" type="checkbox"/> Single Family	<input checked="" type="checkbox"/> Addition Alone	Date	12/8/2021
New Accessory Structure Unit	<input type="checkbox"/> Multi Family	<input type="checkbox"/> Existing+ Addition/Alteration			
Project Address	California Energy Climate Zone	Total Cond. Floor Area	Addition	# of Units	
166 North Encinal Avenue Ojai	CA Climate Zone 16	458	458	1	

INSULATION	Construction	Type	Cavity	Area (ft <sup>2</sup> )	Special Features	Status
Roof	Wood Framed Rafter		R 30	481		New
Wall	Wood Framed		R 21	784		New
Slab	Unheated Slab-on-Grade		- no insulation	458	Perim = 94	New

FENESTRATION	Orientation	Area(ft <sup>2</sup> )	Total Area	U-Fac	SHGC	Overhang	Glazing Percentage	Sidefins	Exterior Shades	New/Altered Average U-Factor	Status
Left (N)	6.0	0.300	0.45	none	none	N/A	15.7%			0.30	New
Rear (E)	6.0	0.300	0.45	none	none	N/A					New
Right (S)	12.0	0.300	0.45	none	none	N/A					New
Front (W)	28.0	0.300	0.45	none	none	N/A					New
Front (W)	20.0	0.300	0.45	none	none	N/A					New

HVAC SYSTEMS	Qty.	Heating	Min. Eff	Cooling	Min. Eff	Thermostat	Status
1	Split Heat Pump		8.20 HSPF	Split Heat Pump	14.0 SEER	Setback	New

HVAC DISTRIBUTION	Location	Heating	Cooling	Duct Location	Duct R-Value	Status
Heating/Cooling	Ductless / with Fan	Ductless	n/a		n/a	New

WATER HEATING	Qty.	Type	Gallons	Min. Eff	Distribution	Status
1	Small Instantaneous Gas		0	0.93	Standard	New

EnergyPro 8.2 by EnergySoft User Number: 1111 ID: 21112401\_Acces\_R0 Page 11 of 16

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TITLE 24 ENERGY ANALYSIS

C21-001401

DRAWN BY

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DATE

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General Notes

1. Compliance information The builder shall leave in the building, copies of the completed, signed and submitted compliance documents for the building owner at occupancy. For low-rise residential buildings, such information shall, at a minimum, include copies of all Certificate of Compliance, Certificate of Installation, and Certificate of Verification documentation submitted. . [10-103(b)1]

2. Operating information. The builder shall provide the building owner at occupancy, operating information for all applicable features, materials, components, and mechanical devices installed in the building. Operating information shall include instructions on how to operate the features, materials, components, and mechanical devices correctly and efficiently. The instructions shall be consistent with specifications set forth by the Executive Director. For residential buildings, such information shall be contained in a folder or manual which provides all Certificate of Compliance, Certificate of Installation, and Certificate of Verification documentations. This operating information shall be in paper or electronic format. [10-103(b)2]

3. Maintenance information. The builder shall provide to the building owner at occupancy, maintenance information for all features, materials, components, and manufactured devices that require routine maintenance for efficient operation. Required routine maintenance actions shall be clearly stated and incorporated on a readily accessible label. The label may be limited to identifying, by title and/or publication number, the operation and maintenance manual for that particular model and type of feature, material, component or manufactured device. [10-103(b)3]

4. Ventilation information. The builder shall provide to the building owner at occupancy, a description of the quantities of outdoor air that the ventilation system(s) are designed to provide to the building's conditioned space, and instructions for proper operation and maintenance of the ventilation system. [10-103(b)4]

5. All systems, equipment, appliances and building components shall comply with the applicable manufacturing, construction, and installation provisions of Sections 110.0 through 110.11 for newly constructed buildings.

6. Any appliance regulated by the Appliance Efficiency Regulations, Title 20 California Code of Regulations, Section 1601 et seq., may be installed only if the appliance fully complies with Section 1608(a) of those regulations. [110.1(a)]

7. Service water-heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use as listed in Table 3, Chapter 50 of the ASHRAE Handbook, HVAC Applications Volume. [110.3(a)1]

8. On systems that have a total capacity greater than 167,000 Btu/hr, outlets that require higher than service water temperatures as listed in the ASHRAE Handbook, Applications Volume, shall have separate remote heaters, heat exchangers, or boosters to supply the outlet with the higher temperature. [110.3(c)1]

9. Service hot water systems with circulating pumps or with electrical heat trace systems shall be capable of automatically turning off the system. [110.3(c)2]

10. Controls for service water-heating systems shall limit the outlet temperature at public lavatories to 110°F. [110.3(c)3]

11. Unfired service water-heater storage tanks and backup tanks for solar water-heating systems shall have:

- a. External insulation with an installed R-value of at least R-12, or
- b. Internal and external insulation with a combined R-value of at least R-16, or
- c. The heat loss of the tank surface based on an 80°F water-air temperature difference shall be less than 6.5 Btu/hr per square foot. [110.3(c)4]

12. For Nonresidential, high-rise residential, and hotel/motel buildings, space conditioning systems shall meet the efficiency standards specified Section 120.2.

13. Continuously burning pilot light shall be prohibited for the following natural gas system or equipment listed below: [110.5]

- a. Fan-type central furnaces
- b. Household cooking appliances, except for household cooking appliances without an electrical supply voltage connection and in which each pilot consumes less than 150 Btu/hr
- c. Pool heaters
- d. Spa heaters

14. Any pool or spa heating system or equipment shall: [110.4]

- a. A thermal efficiency that complies with the Appliance Efficiency Regulations
- b. Have a readily accessible on-off switch, mounted on the outside of the heater that allows shutting off the heater without adjusting the thermostat setting.
- c. Not utilize electric resistance heating.
- d. Have a cover for outdoor pools or spas that have a heat pump or gas heater.
- e. Have a permanent, easily readable, and weatherproof instruction card that gives instructions for the energy efficient operation of the pool or spa heater and for the proper care of pool or spa water when a cover is used.
- f. Have at least 36 inches of pipe installed between the filter and heater or dedicated suction and return lines, or built-in or built-up connections shall be installed to allow for the future addition of solar heating equipment.
- g. Have directional inlets for the pool or spa that adequately mix the pool water.
- h. A time switch or similar control mechanism shall be installed as part of a pool water circulation control system that will allow all pumps to be set or programmed to run only during the off-peak electric demand period and for the minimum time necessary to maintain the water in the condition required by applicable public health standards.

15. Manufactured fenestration products & exterior doors shall have air infiltration rates not exceeding 0.3 cmf/t2 of window area, 0.3 cmf/t2 of residential door area, 0.3 cmf/t2 of nonresidential single door area, & 1.0 cmf/t2 of nonres double door area. [110.6(a)1]

16. Fenestration products shall be rated in accordance with NFRC 100 for U-factor, NFRC 200 for SHGC, and VT or use the applicable default value. Fenestration products shall have a temporary label for manufactured fenestration products or a label certificate when the Component Modeling Approach is used and for site-built fenestration meeting the requirements of Section 10-111(a)1. [110.6(a)2, 110.6(a)3, 110.6(a)4, 110.6(a)5]

17. Field-fabricated fenestration products and exterior doors, other than unframed glass doors and fire doors, shall be caulked between the fenestration products or exterior door and the building, & shall be weatherstripped. [110.6(b)]

18. Joints, penetrations & openings in building envelope may be potential sources of air leakage shall be caulked, gasketed, weather stripped or otherwise sealed to limit infiltration & exfiltration. [110.7]

19. Insulation shall be certified by Department of Consumer Affairs, Bureau of Home Furnishing and Thermal Insulation that the insulation conductive thermal performance is approved pursuant to the California Code of Regulations, Title 24, Part 12, Chapter 12-13, Article 3, "Standards for Insulating Material." [110.8(a)]

20. Urea formaldehyde foam insulation may only be used in exterior side walls, & requires a four-mil-thick plastic polyethylene vapor barrier between the urea formaldehyde foam insulation & the interior space in all applications. [110.8(b)]

21. Insulating material shall be installed in compliance with the flame spread rating and smoke density requirements of the CBC. [110.8(c)]

22. Insulation installed on an existing space conditioning duct, it shall comply with Section 604.0 of the CMC. [110.8(d)3]

23. External insulation installed on an existing unfired water storage tank or on an existing back-up tank for a solar water-heating system, it shall have an R-value of at least R-12, or the heat loss of the tank surface based on an 80 EF water-air temperature difference shall be less than 6.5 Btu per hour per square foot. . [110.8(d)2] E.

Residential Notes:

- 1. A masonry or factory-built fireplace shall have the following: [150.0(e)1]
  - a. Closeable metal or glass doors covering the entire opening of the firebox;
  - b. A combustion air intake to draw air from the outside of the building directly into the firebox, which is at least six square inches in area and is equipped with a readily accessible, operable, and tight-fitting damper or combustion-air control device (Exception: An outside combustion-air intake is not required if the fireplace will be installed over concrete slab flooring and the fireplace will not be located on an exterior wall.); and
  - c. A flue damper with a readily accessible control. [150.0 (e)C]

2. Heating or cooling systems shall be equipped with a setback thermostat that meet the requirements of Section 110.2(c). [150.0(i)]

- 3. Gas or propane water heaters shall have: [150.0(n)]
  - a. A 120V electrical receptacle that is within 3 feet from the water heater.
  - b. A Category III or IV vent, or a Type B vent with straight pipe.
  - c. Condensate drain that is no more than 2 inches higher than the base.
  - d. A gas supply line with a capacity of at least 200,000 Btu/hr

4. All pumps and pump motors installed shall be listed in the Commission's directory of certified equipment and shall comply with the Appliance Efficiency Regulations. [150.0(p)1,A]

5. The minimum installed weight per square foot of any loose-fill insulation shall conform with the insulation manufacturer's labeled R-value. [150.0 (b)]

6. The minimum depth of concrete-slab floor perimeter insulation shall be 16 inches or the depth of the footing of the building, whichever is less. [150.1(c)(1)(D)]

7. The crawl space shall be covered with a vapor retarder over the entire floor. [150.1(c)1,D]

- 8. Insulations are required for: [150.0(j)2,A]
  - a. All hot water pipes from the heating source to the kitchen fixtures.
  - b. All piping with a nominal diameter of 3/4 inch or larger.
  - c. The first 5 feet (1.5 meters) of hot and cold water pipes from the storage tank.
  - d. All piping associated with a domestic hot water recirculation system.
  - e. Piping from the heating source to storage tank or between tanks.
  - f. Piping buried below grade.

- 9. Insulation shall be provided for water heaters as follows:
  - a. Unfired hot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, shall be externally wrapped with insulation having an installed thermal resistance of R-12 or greater or have internal insulation of at least R-16 and a label on the exterior of the tank showing the insulation R-value. [150.0 (j)1]

- 10. Lighting [150.0(k)]
  - a. Installed luminaires shall be classified as high-efficacy in accordance with TABLE 150.0-A.
  - b. Exhaust fans shall be switched separately from lighting systems.
  - c. Luminaries shall be switched with readily accessible controls that permit the luminaires to be manually switched ON and OFF.
  - d. Lighting installed in attached and detached garages, laundry rooms, and utility rooms, at least one luminaire in each of these spaces shall be controlled by vacancy sensors.
  - e. Dimmers or vacancy sensors shall control all luminaires required to have light sources compliant with Reference Joint Appendix JA8.

EXCEPTION 1: Luminaires in closets less than 70 square feet. EXCEPTION 2: Luminaires in hallways.

- f. A. In a low-rise multifamily residential building where the total interior common area in a single building equals 20 percent or less of the floor area, permanently installed lighting for the interior common areas in that building shall be high efficacy luminaires or controlled by an occupant sensor.

- g. In a low-rise multifamily residential building where the total interior common area in a single building equals more than 20 percent of the floor area, permanently installed lighting in that building shall:
  - i) Comply with the applicable requirements in Sections 110.9, 130.0, 130.1, 140.6 and 141.0; and
  - ii) Lighting installed in corridors and stairwells shall be controlled by occupant sensors that reduce the lighting power in each space by at least 50 percent. The occupant sensors shall be capable of turning the light fully On and Off from all designed paths of ingress and egress.



2019 Low-Rise Residential Mandatory Measures Summary

**NOTE:** Low-rise residential buildings subject to the Energy Standards must comply with all applicable mandatory measures, regardless of the compliance approach used. Review the respective section for more information. \*Exceptions may apply. (01/2020)

Building Envelope Measures:	
§ 110.6(a)1:	<b>Air Leakage.</b> Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 CFM per square foot or less when tested per NFRC-400, ASTM E283 or AIAA/WDMA/CA 1011.5.2/A440-2011.*
§ 110.6(a)5:	<b>Labeling.</b> Fenestration products and exterior doors must have a label meeting the requirements of 10-111(a).
§ 110.6(b):	<b>Field fabricated exterior doors and fenestration products</b> must use U-factors and solar heat gain coefficient (SHGC) values from Tables 110.6.A, 110.6.B, or JA4 for exterior doors. They must be caulked and/or weather-stripped.*
§ 110.7:	<b>Air Leakage.</b> All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be caulked, gasketed, or weather stripped
§ 110.8(a):	<b>Insulation Certification by Manufacturers.</b> Insulation must be certified by the Department of Consumer Affairs, Bureau of Household Goods and Services (BHGS).
§ 110.8(g):	<b>Insulation Requirements for Heated Slab Floors.</b> Heated slab floors must be insulated per the requirements of § 110.8(g).
§ 110.8(h):	<b>Roofing Products Solar Reflectance and Thermal Emittance.</b> The thermal emittance and aged solar reflectance values of the roofing material must meet the requirements of § 110.8(h) and be labeled per §10-113 when the installation of a cool roof is specified on the CFIR.
§ 110.8(i):	<b>Radiant Barrier.</b> When required, radiant barriers must have an emittance of 0.05 or less and be certified to the Department of Consumer Affairs.
§ 150.0(a):	<b>Ceiling and Rafter Roof Insulation.</b> Minimum R-22 insulation in wood-frame ceiling; or the weighted average U-factor must not exceed 0.043. Minimum R-19 or weighted average U-factor of 0.054 or less in a rafter roof alteration. Attic access doors must have permanently attached insulation using adhesive or mechanical fasteners. The attic access must be gasketed to prevent air leakage. Insulation must be installed in direct contact with a continuous roof or ceiling which is sealed to limit infiltration and exfiltration as specified in § 110.7, including but not limited to placing insulation either above or below the roof deck or on top of a drawall ceiling.*
§ 150.0(b):	<b>Loose-fill Insulation.</b> Loose fill insulation must meet the manufacturer's required density for the labeled R-value.
§ 150.0(c):	<b>Wall Insulation.</b> Minimum R-13 insulation in 2x4 inch wood framing wall or have a U-factor of 0.102 or less, or R-20 in 2x6 inch wood framing or have a U-factor of 0.071 or less. Cripple non-framed assemblies must have an overall assembly U-factor not exceeding 0.102. Masonry walls must meet Tables 150.1-A or B.*
§ 150.0(d):	<b>Raised-floor Insulation.</b> Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor.*
§ 150.0(f):	<b>Slab Edge Insulation.</b> Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material alone without facings, no greater than 0.3 percent, have a water vapor permeance no greater than 0.2 perm per inch; be protected from physical damage and UV light deterioration; and, when installed as part of a heated slab floor, meet the requirements of § 110.8(g).
§ 150.0(g)1:	<b>Vapor Retarder.</b> In climate zones 1 through 16, the earth floor of unvented crawl space must be covered with a Class I or Class II vapor retarder. This requirement also applies to controlled ventilation crawl space for buildings complying with the exception to § 150.0(d).
§ 150.0(g)2:	<b>Vapor Retarder.</b> In climate zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of all insulation in all exterior walls, vented attics, and unvented attics with air-permeable insulation.
§ 150.0(i):	<b>Fenestration Products.</b> Fenestration, including skylights, separating conditioned space from unconditioned space or outdoors must have a maximum U-factor of 0.58, or the weighted average U-factor of all fenestration must not exceed 0.58.*
Fireplaces, Decorative Gas Appliances, and Gas Log Measures:	
§ 110.5(e):	<b>Pilot Light.</b> Continuously burning pilot lights are not allowed for indoor and outdoor fireplaces.
§ 150.0(e)1:	<b>Closable Doors.</b> Masonry or factory-built fireplaces must have a closable metal or glass door covering the entire opening of the firebox.
§ 150.0(e)2:	<b>Combustion Intake.</b> Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square inches in area and is equipped with a readily accessible, operable, and tight-fitting damper or combustion-air control device.*
§ 150.0(e)3:	<b>Flue Damper.</b> Masonry or factory-built fireplaces must have a flue damper with a readily accessible control.*
Space Conditioning, Water Heating, and Plumbing System Measures:	
§ 110.0-§ 110.3:	<b>Certification.</b> Heating, ventilation and air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other regulated appliances must be certified by the manufacturer to the California Energy Commission.*
§ 110.2(a):	<b>HVAC Efficiency.</b> Equipment must meet the applicable efficiency requirements in Table 110.2.A through Table 110.2.K.*
§ 110.2(b):	<b>Controls for Heat Pumps with Supplementary Electric Resistance Heaters.</b> Heat pumps with supplementary electric resistance heaters must have controls that prevent supplemenary heater operation when the heating load can be met by the heat pump alone, and in which the cut-on temperature for compression heating is higher than the cut-on temperature for supplementary heating, and the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating.*
§ 110.2(c):	<b>Thermostats.</b> All heating or cooling systems not controlled by a central energy management control system (EMCS) must have a setback thermostat.*
§ 110.3(c)4:	<b>Water Heating Recirculation Loops Serving Multiple Dwelling Units.</b> Water heating recirculation loops serving multiple dwelling units must meet the air release valve, backflow prevention, pump priming, pump isolation valve, and recirculation loop connection requirements of § 110.3(c)4.
§ 110.3(c)6:	<b>Isolation Valves.</b> Instantaneous water heaters with an input rating greater than 6.8 kBtu per hour (2 kW) must have isolation valves with hose bibbs or other fittings on both cold and hot water lines to allow for flushing the water heater when the valves are closed.
§ 110.5:	<b>Pilot Lights.</b> Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces; household cooking appliances (except appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu per hour ); and pool and spa heaters.*
§ 150.0(h)1:	<b>Building Cooling and Heating Loads.</b> Heating and/or cooling loads are calculated in accordance with the ASHRAE Handbook, Equipment and Systems, Applications Volume, and Fundamentals Volume, the SMACNA Residential Comfort System Installation Standards Manual, or the ACCA Manual J using design conditions specified in § 150.0(h)2.



2019 Low-Rise Residential Mandatory Measures Summary

Requirements for Ventilation and Indoor Air Quality:	
§ 150.0(i)1:	<b>Requirements for Ventilation and Indoor Air Quality.</b> All dwelling units must meet the requirements of ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(i)1.
§ 150.0(i)1C:	<b>Single Family Detached Dwelling Units.</b> Single family detached dwelling units, and attached dwelling units not sharing ceilings or floors with other dwelling units, occupiable spaces, public garages, or commercial spaces must have mechanical ventilation airflow provided at rates determined by ASHRAE 62.2 Sections 4.1.1 and 4.1.2 and as specified in § 150.0(i)1C.*
§ 150.0(i)1E:	<b>Multifamily Attached Dwelling Units.</b> Multifamily attached dwelling units must have mechanical ventilation airflow provided at rates in accordance with Equation 150.0-B and must be either a balanced system or continuous supply or continuous exhaust system. If a balanced system is not used, all units in the building must use the same system type and the dwelling-unit envelope leakage must be ≤ 0.3 CFM at 50 Pa (0.2 inch water) per square foot of dwelling unit envelope surface area and verified in accordance with Reference Residential Appendix RA3.8.
§ 150.0(i)1F:	<b>Multifamily Building Central Ventilation Systems.</b> Central ventilation systems that serve multiple dwelling units must be balanced to provide ventilation airflow for each dwelling unit served at a rate equal to or greater than the rate specified by Equation 150.0-B. All unit airflows must be within 20 percent of the unit with the lowest airflow rate as relates to the individual unit's minimum required airflow rate needed for compliance.
§ 150.0(i)1G:	<b>Kitchen Range Hoods.</b> Kitchen range hoods must be rated for sound in accordance with Section 7.2 of ASHRAE 62.2.
§ 150.0(i)2:	<b>Field Verification and Diagnostic Testing.</b> Dwelling unit ventilation airflow must be verified in accordance with Reference Residential Appendix RA3.7. A kitchen range hood must be verified in accordance with Reference Residential Appendix RA3.7.4.3 to confirm it is rated by IHV to comply with the airflow rates and sound requirements as specified in Sections 5 and 7.2 of ASHRAE 62.2.
Pool and Spa Systems and Equipment Measures:	
§ 110.4(a):	<b>Certification by Manufacturers.</b> Any pool or spa heating system or equipment must be certified to have all of the following: a thermal efficiency that complies with the Appliance Efficiency Regulations; an on-off switch mounted outside of the heater that allows shutting off the heater without adjusting the thermostat setting; a permanent weatherproof plate or card with operating instructions; and must not use electric resistance heating.*
§ 110.4(b)1:	<b>Piping.</b> Any pool or spa heating system or equipment must be installed with at least 36 inches of pipe between the filter and the heater, or dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating.
§ 110.4(b)2:	<b>Covers.</b> Outdoor pools or spas that have a heat pump or gas heater must have a cover.
§ 110.4(b)3:	<b>Directional Inlets and Time Switches for Pools.</b> Pools must have directional inlets that adequately mix the pool water, and a time switch that will allow all pumps to be set or programmed to run only during off-peak electric demand periods.
§ 110.5:	<b>Pilot Light.</b> Natural gas pool and spa heaters must have a continuously burning pilot light.
§ 150.0(p):	<b>Pool Systems and Equipment Installation.</b> Residential pool systems or equipment must meet the specified requirements for pump sizing, flow rate, piping, filters, and valves.*
Lighting Measures:	
§ 110.9:	<b>Lighting Controls and Components.</b> All lighting control devices and systems, ballasts, and luminaires must meet the applicable requirements of § 110.9.*
§ 150.0(k)1A:	<b>Luminaire Efficacy.</b> All installed luminaires must meet the requirements in Table 150.0-A.
§ 150.0(k)1B:	<b>Blank Electrical Boxes.</b> The number of electrical boxes that are more than five feet above the finished floor and do not contain a luminaire or other device must be no greater than the number of bedrooms. These electrical boxes must be served by a dimmer, vacancy sensor control, or fan speed control.*
§ 150.0(k)1C:	<b>Recessed Downlight Luminaires in Ceilings.</b> Luminaires recessed into ceilings must meet all of the requirements for: insulation contact (IC) rating; air leakage; sealant or maintenance; and light source as described in § 150.0(k)1C.
§ 150.0(k)1D:	<b>Electronic Ballasts for Fluorescent Lamps.</b> Ballasts for fluorescent lamps rated 13 watts or greater must be electronic and must have an output frequency no less than 20 kHz.
§ 150.0(k)1E:	<b>Night Lights, Step Lights, and Path Lights.</b> Night lights, step lights and path lights are not required to comply with Table 150.0-A or be controlled by vacancy sensors provided they are rated to consume no more than 5 watts of power and emit no more than 150 lumens.
§ 150.0(k)1F:	<b>Lighting Integral to Exhaust Fans.</b> Lighting integral to exhaust fans (except when installed by the manufacturer in kitchen exhaust hoods) must meet the applicable requirements of § 150.0(k)*.
§ 150.0(k)1G:	<b>Screw based luminaires.</b> Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8.*
§ 150.0(k)1H:	<b>Light Sources in Enclosed or Recessed Luminaires.</b> Lamps and other separable light sources that are not compliant with the JA8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(k)1I:	<b>Light Sources in Drawers, Cabinets, and Linen Closets.</b> Light sources internal to drawers, cabinetry or linen closets are not required to comply with Table 150.0-A or be controlled by vacancy sensors provided that they are rated to consume no more than 5 watts of power, emit no more than 150 lumens, and are equipped with controls that automatically turn the lighting off when the drawer, cabinet or linen closet is closed.
§ 150.0(k)2A:	<b>Interior Switches and Controls.</b> All forward phase out dimmers used with LED light sources must comply with NEMA SSL 7A.
§ 150.0(k)2B:	<b>Interior Switches and Controls.</b> Exhaust fans must be controlled separately from lighting systems.*
§ 150.0(k)2C:	<b>Interior Switches and Controls.</b> Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually turned On and Off.*
§ 150.0(k)2D:	<b>Interior Switches and Controls.</b> Controls and equipment must be installed in accordance with manufacturer's instructions.
§ 150.0(k)2E:	<b>Interior Switches and Controls.</b> Controls must not bypass a dimmer, occupant sensor, or vacancy sensor function if the control is installed to comply with § 150.0(k).
§ 150.0(k)2F:	<b>Interior Switches and Controls.</b> Lighting controls must comply with the applicable requirements of § 110.9.



2019 Low-Rise Residential Mandatory Measures Summary

§ 150.0(h)3A:	<b>Clearances.</b> Air conditioner and heat pump outdoor condensing units must have a clearance of at least five feet from the outlet of any dryer
§ 150.0(h)3B:	<b>Liquid Line Drier.</b> Air conditioners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the manufacturer's instructions.
§ 150.0(j)1:	<b>Storage Tank Insulation.</b> Unfired hot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must have a minimum of R-12 external insulation or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank.
§ 150.0(j)2A:	<b>Water Piping, Solar Water-heating System Piping, and Space Conditioning System Lin Insulation.</b> All domestic hot water piping must be insulated as specified in Section 609.11 of the California Plumbing Code. In addition, the following piping conditions must have a minimum insulation wall thickness of one inch or a minimum insulation R-value of 7.7: the first five feet of cold water pipes from the storage tank; all hot water piping with a nominal diameter equal to or greater than 3/4 inch and less than one inch; all hot water piping with a nominal diameter less than 3/4 inch that is associated with a domestic hot water recirculation system, from the heating source to storage tank or between tanks, buried below grade, and from the heating source to kitchen fixtures.*
§ 150.0(j)3:	<b>Insulation Protection.</b> Piping insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind as required by Section 120.3(b). Insulation exposed to weather must be water retardant and protected from UV light (no adhesive tapes). Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space must include, or be protected by, a Class I or Class II vapor retarder. Pipe insulation buried below grade must be installed in a waterproof and non-crushable casing or sleeve.
§ 150.0(i)1:	<b>Gas or Propane Water Heating Systems.</b> Systems using gas or propane water heaters to serve individual dwelling units must include all of the following: A dedicated 125 volt, 20 amp electrical receptacle connected to the electric panel with a 120/240 volt 3 conductor, 10 AWG copper branch circuit, within three feet of the water heater without obstruction. Both ends of the unused conductor must be labeled with the word "space" and be electrically isolated. Have a reserved single pole circuit breaker space in the electrical panel adjacent to the circuit breaker for the branch circuit and labeled with the words "Future 240V Use", a Category III or IV vent, or a Type B vent with straight pipe from the outside termination and the space where the water heater is installed; a condensate drain that is no more than two inches higher than the base of the water heater; and allows natural draining without pump assistance; and a gas supply line with a capacity of at least 200,000 Btu per hour
§ 150.0(n)2:	<b>Recirculating Loops.</b> Recirculating loops serving multiple dwelling units must meet the requirements of § 110.3(c)5.
§ 150.0(n)3:	<b>Solar Water-heating Systems.</b> Solar water-heating systems and collectors must be certified and rated by the Solar Rating and Certification Corporation (SRCC), the International Association of Plumbing and Mechanical Officials, Research and Testing (IAPMO R&T), or by a listing agency that is approved by the Executive Director.
Ducts and Fans Measures:	
§ 110.8(d)3:	<b>Ducts.</b> Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Code (CMC). If a contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets this requirement.
§ 150.0(m)1:	<b>CMC Compliance.</b> All air-distribution system ducts and plenums must meet the requirements of the CMC §§ 601.0, 602.0, 603.0, 604.0, 605.0 and ANSI/SMACNA-005-2006 HVAC Duct Construction Standards Metal and Flexible 3rd Edition. Portions of supply-air and return-air ducts and plenums must be insulated to a minimum installed level of R-6.0 or a minimum installed level of R-4.2 when ducts are entirely in conditioned space as confirmed through field verification and diagnostic testing (RA3.1.4.3.8). Portions of the duct system completely exposed and surrounded by directly conditioned space are not required to be insulated. Connections of metal ducts and inner core of flexible ducts must be mechanically fastened. Openings must be sealed with mastic tape, or other duct-closure system that meets the applicable requirements of UL 181, UL 181A, or UL 181B or aerosol sealant that meets the requirements of UL 723. If mastic or tape is used to seal openings greater than ¼ inch, the combination of mastic and either mesh or tape must be used. Building cavities, support platforms for air handlers, 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 cavities and support platforms must not be compressed to cause reductions in the cross-sectional area.*
§ 150.0(m)2:	<b>Factory-Fabricated Duct Systems.</b> Factory-fabricated duct systems must comply with applicable requirements for duct construction, connections, and closures, joints and seams of duct systems and their components must not be sealed with duct back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands.
§ 150.0(m)3:	<b>Field-Fabricated Duct Systems.</b> Field-fabricated duct systems must comply with applicable requirements for: pressure-sensitive tapes, mastics, sealants, and other requirements specified for duct construction.
§ 150.0(m)7:	<b>Backdraft Damper.</b> Fan systems that exchange air between the conditioned space and outdoors must have backdraft or automatic dampers.
§ 150.0(m)8:	<b>Gravity Ventilating Dampers.</b> Gravity ventilating systems serving conditioned space must have either automatic or readily accessible, manually operated dampers in all openings to the outside, except combustion inlet and outlet air openings and elevator shaft vents.
§ 150.0(m)9:	<b>Protection of Insulation.</b> Insulation must be protected from damage, sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather must be suitable for outdoor service. For example, protected by aluminum, sheet metal, painted canvas, or plastic cover. Cellular foam insulation must be protected as above or painted with a coating that is water retardant and provides shielding from solar radiation.
§ 150.0(m)10:	<b>Porous Inner Core Flex Duct.</b> Porous inner core flex ducts must have a non-porous liner between the inner core and outer vapor barrier.
§ 150.0(m)11:	<b>Duct System Sealing and Leakage Test.</b> When space conditioning systems use forced air duct systems to supply conditioned air to an occupiable space, the ducts must be sealed and duct leakage tested as confirmed through field verification and diagnostic testing, in accordance with § 150.0(m)11 and Reference Residential Appendix RA3.
§ 150.0(m)12:	<b>Air Filtration.</b> Space conditioning systems with ducts exceeding 10 feet and the supply side of ventilation systems must have MERV 13 or equivalent filters. Filters for space conditioning systems must have a two inch depth or can be one inch if sized per Equation 150.0-A. Pressure drops and labeling must meet the requirements in § 150.0(m)12. Filters must be accessible for regular service.*
§ 150.0(m)13:	<b>Space Conditioning System Airflow Rate and Fan Efficacy.</b> Space conditioning systems that use ducts to supply cooling must have a hole for the placement of a static pressure probe, or a permanently installed static pressure probe in the supply plenum. Airflow must be ≥ 350 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≥ 0.45 watts per CFM for gas furnace air handlers and ≤ 0.58 watts per CFM for other. Systems that use 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.*
Interior Switches and Controls.	
§ 150.0(k)2G:	<b>Interior Switches and Controls.</b> An energy management control system (EMCS) may be used to comply with control requirements if it: provides functionality of the specified control according to § 110.9, meets the Installation Certificate requirements of § 130.4, meets the EMCS requirements of § 130.0(e), and meets all other requirements in § 150.0(k)2.
§ 150.0(k)2H:	<b>Interior Switches and Controls.</b> A multisense programmable controller may be used to comply with dimmer requirements in § 150.0(k) if it provides the functionality of a dimmer according to § 110.9, and complies with all other applicable requirements in § 150.0(k)2.
§ 150.0(k)2I:	<b>Interior Switches and Controls.</b> In bathrooms, garages, laundry rooms, and utility rooms, at least one luminaire in each of these spaces must be controlled by an occupant sensor or an automatic off functionality. If an occupant sensor is installed, it must be initially configured to manual on operation using the manual control required under Section 150.0(k)2C.
§ 150.0(k)2J:	<b>Interior Switches and Controls.</b> Luminaires that are or contain light sources that meet Reference Joint Appendix JA8 requirements for dimming, and that are not controlled by occupancy or vacancy sensors, must have dimming controls.*
§ 150.0(k)2K:	<b>Interior Switches and Controls.</b> Under cabinet lighting must be controlled separately from ceiling-installed lighting systems.
§ 150.0(k)3A:	<b>Residential Outdoor Lighting.</b> For single-family residential buildings, outdoor lighting permanently mounted to a residential building, or to other buildings on the same lot, must meet the requirement in item § 150.0(k)3A (On and Off switch) and the requirements in either § 150.0(k)3Aa (photoelect and either a motion sensor or automatic time switch control) or § 150.0(k)3Ai (astronomical time clock), or an EMCS.
§ 150.0(k)3B:	<b>Residential Outdoor Lighting.</b> For low-rise residential buildings with four or more dwelling units, outdoor lighting for private patios, entrances, balconies, and porches, and residential garages and carports with less than eight vehicles per site must comply with either § 150.0(k)3A or with the applicable requirements in Sections 110.9, 130.0, 130.2, 130.4, 140.7 and 141.0.
§ 150.0(k)3C:	<b>Residential Outdoor Lighting.</b> For low-rise residential buildings with four or more dwelling units, any outdoor lighting for residential parking lots or carports with a total of eight or more vehicles per site and any outdoor lighting not regulated by § 150.0(k)3B or § 150.0(k)3D must comply with the applicable requirements in Sections 110.9, 130.0, 130.2, 130.4, 140.7 and 141.





### Will-Serve/Proof of Service/Meter Request Form

A "Will-Serve" letter may be issued upon the District's completion of an analysis determining that all conditions of approval are met.

#### Required Attachments:

1. Drawing/sketch of project (with dimensions)
  2. Tax Assessors parcel map that includes the subject property.
  3. Subdivision map covering the location of the project.\*
  4. Documentation of existing permitted dwellings on the property.
- \* Clearly indicate all APNs and legal lots involved in the project. Ensure any markups to county documents do not obscure the underlying information.

#### Applicant Information:

Account Number: 02- [REDACTED] 08

Name: S [REDACTED]

Company: S [REDACTED]

Mailing Address: [REDACTED] Ventura, CA 93004

Phone Number: 805 [REDACTED]

Email Address: [REDACTED]@gmail.com

#### Project Information:

New Meter Requested: ☐ Yes ☒ No

Assessor's Parcel #(s): 017-0-0710-400

Service Address: 260 N. Alvarado Avenue

City, State, Zip code: Ojai, CA 93023

Planning Dept Case #: ZC23-

# of Existing Dwellings: 1 Date Dwellings Permitted: [REDACTED]

Type of Construction:

☐ New Construction ☐ Tenant Improvement ☒ ADU ☒ Other

Type of Use:

☐ Single Family Res ☐ Multi-Family Res (# of dwellings \_\_\_\_\_) ☒ Other

Project Dimensions (Sqft): 384

Continued on Next Page





## Will-Serve/Proof of Service/Meter Request Form

### Detailed Project Description:

convert existing 384 square foot permitted workshop into a ADU.

*Please allow a minimum of 60 days to evaluate and process Will-Serve letter and new meter requests.  
The time frame will depend on receipt of satisfactory information from the applicant and schedule  
of pertinent District Committees and Board of Directors meetings.*

☒ **I acknowledge that MOWD will bill a \$100 Administrative Fee for processing this request.**

**Applicant Signature**

**Date**

DocuSigned by:  
[Redacted Signature]

February 17, 2023

ojai El Roblar, by [Redacted Name] its Manager



## **Review of Application for Will Serve Letter**

### **Conversion of a 384-sf permitted workshop into a “Tiny Home” ADU for Property with Existing Meter at 260 N. Alvarado.**

#### ***Proposal***

The proposed project consists of converting a 384-sf permitted workshop to a "Tiny Home" ADU.

Applicant provided a detailed site plan, showing the location of the proposed structure.

#### ***Screening Step 1: Is the proposed building site on a legal lot? YES***

Applicant provided a copy of a tax assessor parcel map and a subdivision map that indicate a single 0.21-acre parcel. APN: 017-0-071-40

#### ***Screening Step 2. Will the current allocation support an ADU? YES***

Allocation Details:

- Allocation Case Identifier: AA-0323
- Allocation Category: 5/8" RES meter, 1 Parcel
- Parcel Size: 0.21 acre
- Current Base Fixed Allocation: 120 HCF/yr
- Current Base Variable Allocation: 106 HCF/yr
- Fixed Base Allocation Needed to Support "Tiny Home" ADU: 60 HCF/yr
- Deduction from Variable Allocation needed to Support "Tiny Home" ADU through drought stages: 70 HCF/yr

If the ADU are provided the customary fixed dwelling allocations, the new allocation for this property would be as follows:

- New Base Fixed Allocation: **180 HCF/yr**
- New Base Variable Allocation: **36 HCF/yr**

#### ***Recommendation***

If a will serve letter is to be supplied, but must clearly state:

- Letter applies only to the proposed "Tiny Home" ADU as described in the applicant-provided preliminary site plan with the file date 2-17-2023.
- There will be no increase in the total (fixed plus variable) water allocation assigned to the meter Will Serve Letter will expire after 1 year.

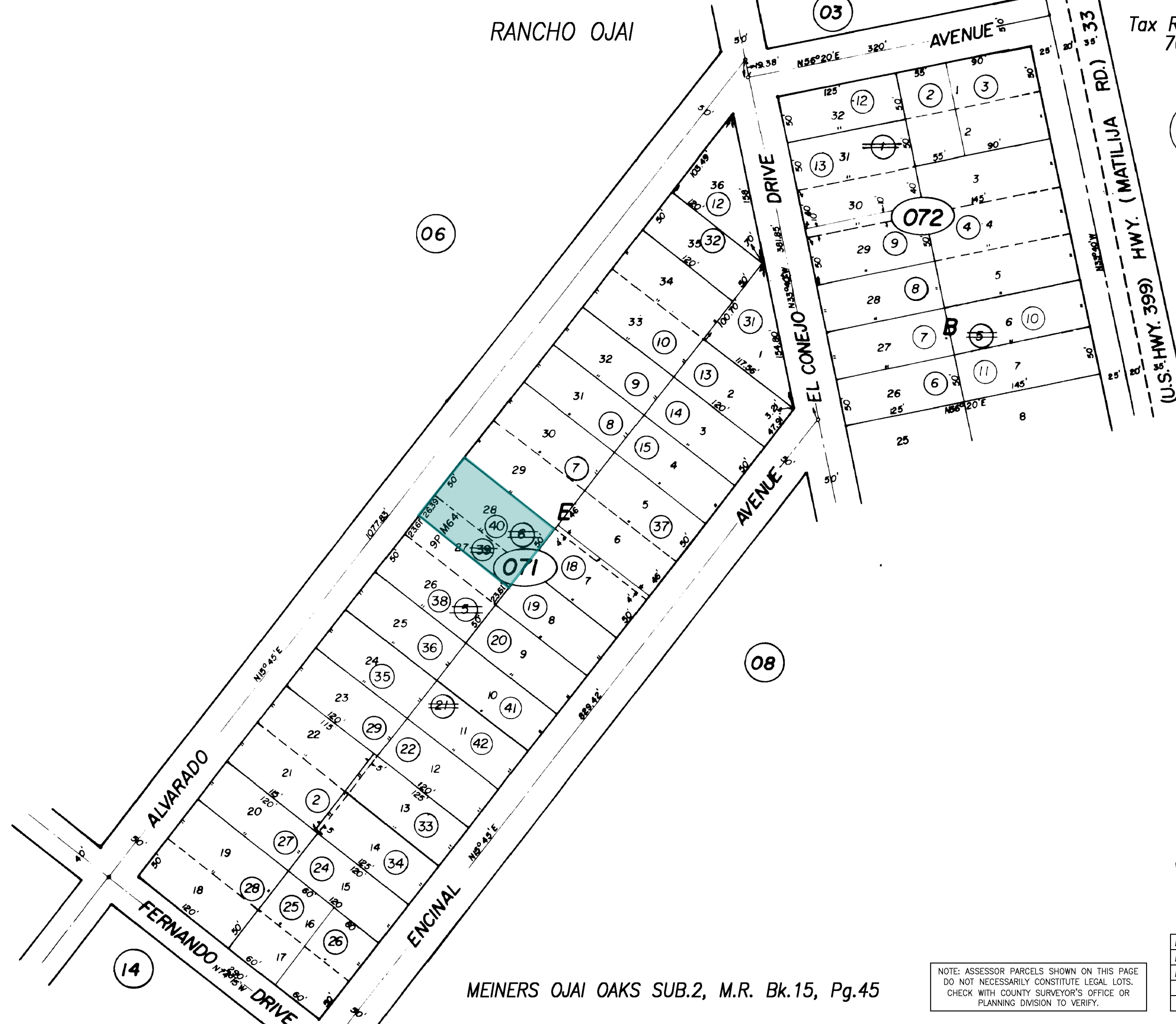


RANCHO OJAI

Tax Rate Area  
70018

017-07

Bk.19



MEINERS OJAI OAKS SUB.2, M.R. Bk.15, Pg.45

NOTE: ASSESSOR PARCELS SHOWN ON THIS PAGE  
DO NOT NECESSARILY CONSTITUTE LEGAL LOTS.  
CHECK WITH COUNTY SURVEYOR'S OFFICE OR  
PLANNING DIVISION TO VERIFY.

UNINCORPORATED AREA  
Ventura County Assessor's Map.

Assessor's Block Numbers Shown in Ellipses.  
Assessor's Parcel Numbers Shown in Circles.  
Assessor's Mineral Numbers Shown in Squares.

DRAWN	REVISED	11-9-2000
REDRAWN	CREATED	
INKED	PLOTTED	EFFECTIVE
PREVIOUS Bk., Portion Pg.		
Compiled By Ventura County Assessor's Office		



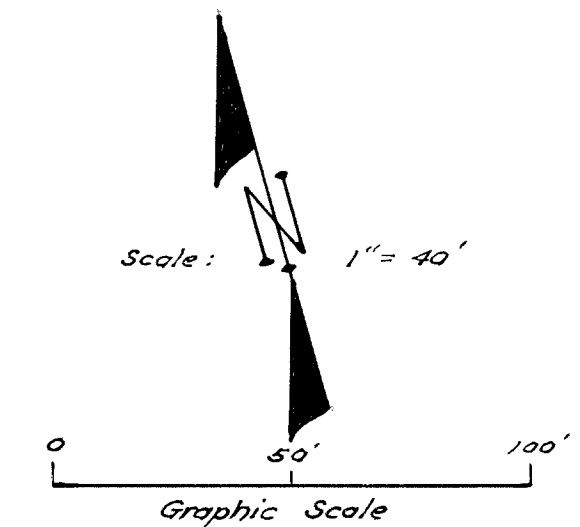
# PARCEL MAP

LOTS 26, 27 & 28, BLOCK "E" MEINERS OJAI OAKS SUB. N<sup>o</sup> 2, (15 M.R. 45)

PART OF TRACT 7, RANCHO OJAI

IN THE UNINCORPORATED TERRITORY OF VENTURA CO., CALIF.

MARCH 1971



This map was prepared by me or under my direction and was compiled from record data in conformance with the requirements of the Subdivision Map Act at the request of Elmer E. Peterson on March 17, 1971. I hereby certify that it conforms to the approved tentative map and the conditions of approval thereof; that all provisions of applicable state law and local ordinances have been complied with.

Arthur M. Bjornstedt  
L.S. N<sup>o</sup> 2338

This map has been examined this 27<sup>th</sup> day of April 1971 for conformance with the requirements of Section 11575 of the Subdivision Map Act.

A. P. Stokes  
County Surveyor

Verma R. Jones  
Deputy County Surveyor

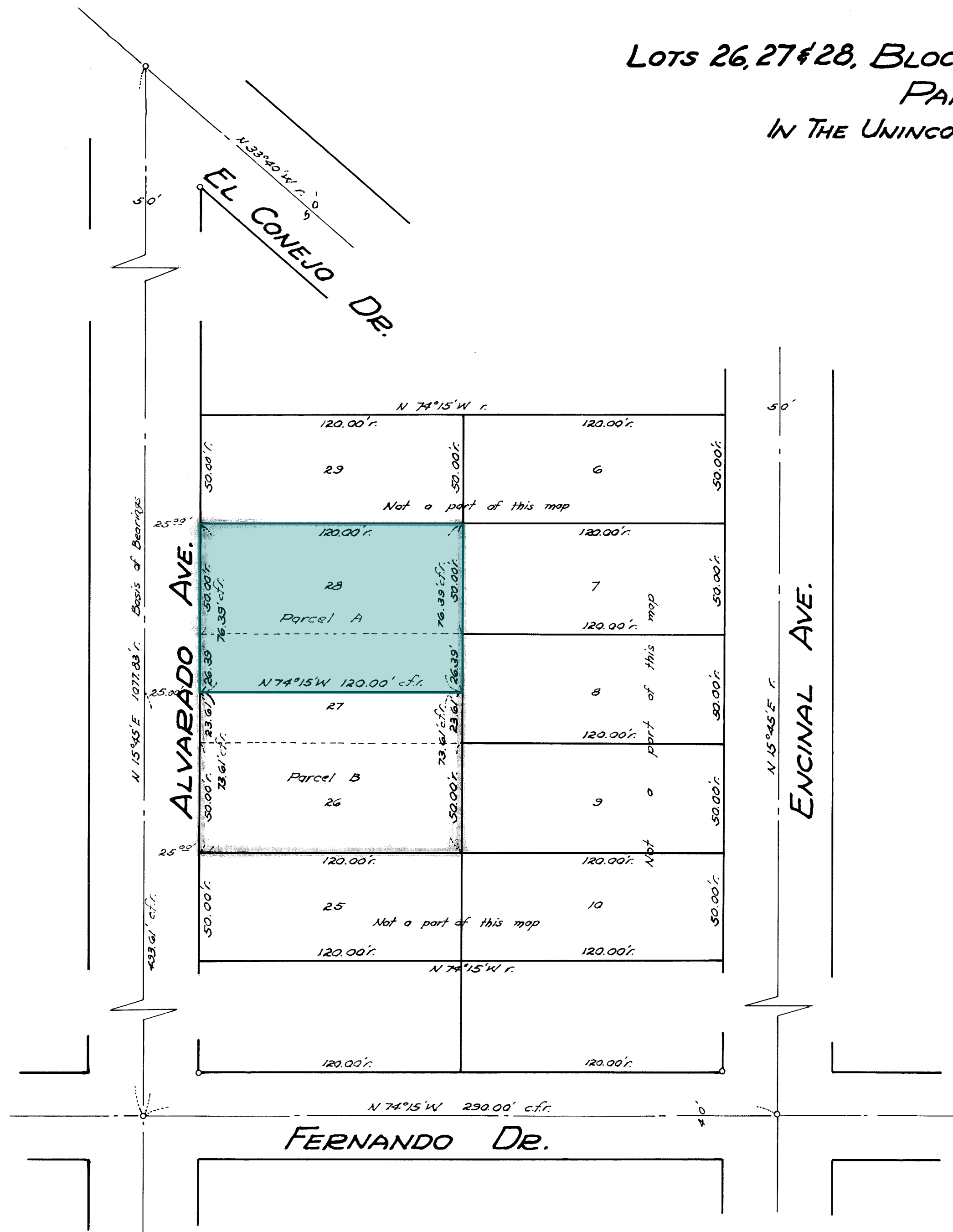
#23176

Filed this 3<sup>rd</sup> day of May 1971 at 11:15 A.M. in Book 9 of Parcel Maps at Page 64 at the request of Arthur M. Bjornstedt.

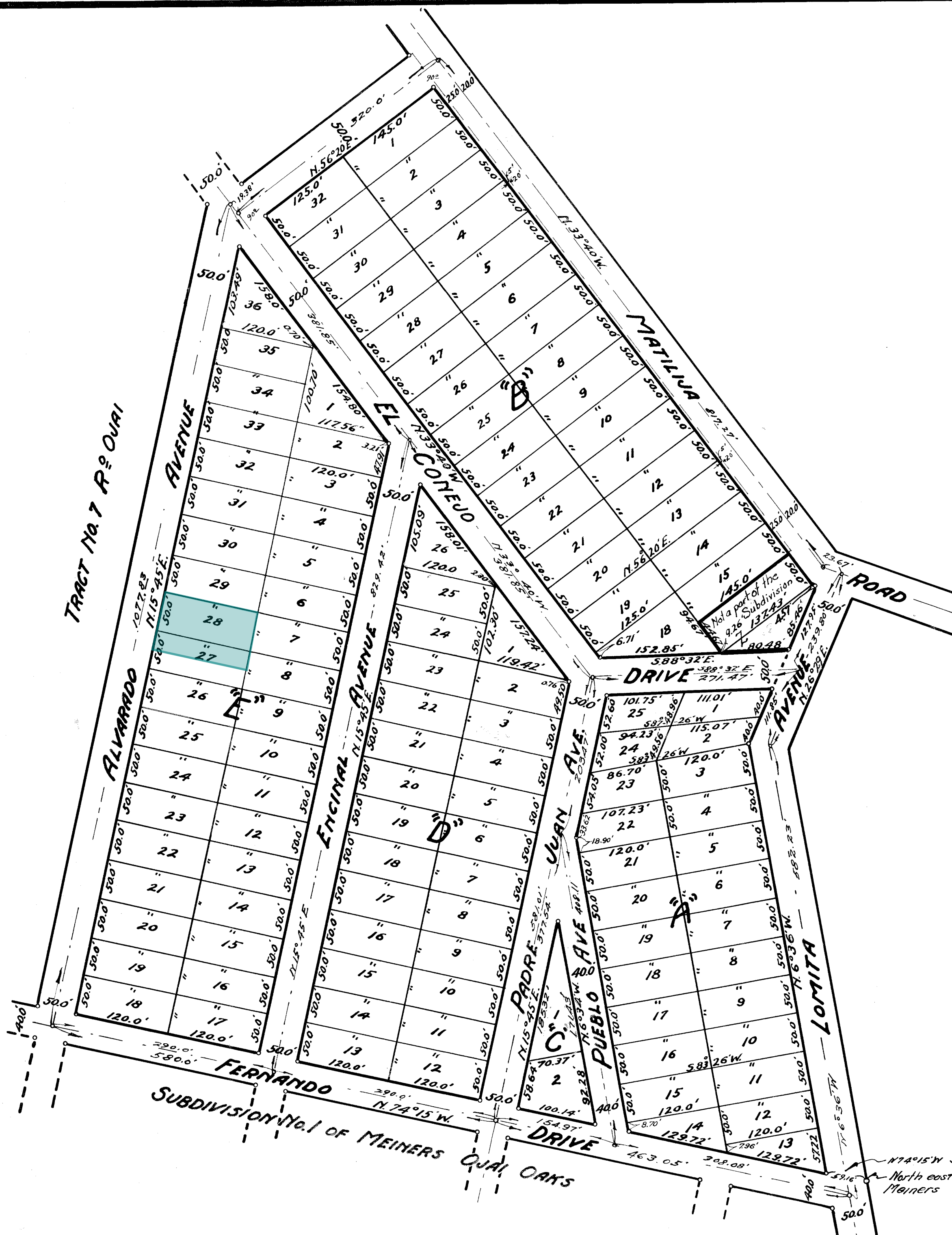
Robert L. Hamm  
County Recorder

By: William Fowles  
Deputy County Recorder

Note: 1/2" I.P. at points marked 0 per 15 M.R. 45.







MAP OF  
SUBDIVISION NO. 2  
MEINERS OJAI OAKS  
Part of Tract 7 of  
RANCHO OJAI  
as subdivided by T. R. Bard  
1867-1870  
VENTURA CO. CALIFORNIA  
Scale 1" = 100'

Waud & Lewis Engrs. March 1928  
o denotes location of 1 1/2" iron pipe

Sheet No. 1



OWNERS' CERTIFICATE

The undersigned persons and corporations hereby certify and declare that at the date hereof, they are the owners of or interested in the land in, situated within the yellow shaded lines of the map entitled "Subdivision No. 2, 'Reineschal Oaks', consisting of three sheets, this being sheet No. 2 thereof, and we are the only persons or corporations whose consent is necessary to pass a clear title to said land, that we consent to the making and recording of said map, and hereby dedicate for public use "El Dorado Drive", "Alvarado Avenue", "Mehinal Avenue", "Mapache Juan Avenue", "Paseo Avenue", and "Mehillia Road".

Dated this 8th day of June, 1929.

JOAL RANGE AND DEVELOPMENT COMPANY, (Owner)  
Charles R. Sawyer (Owner)  
Carrie W. Sawyer (Owner)  
John L. Stuart (Owner)  
Emily M. Stuart (Owner)  
Roy A. Dale (Owner)  
Marion L. Dale (Owner)  
H. H. Meyer (Owner)  
Bertha M. Meyer (Owner)  
John W. Crumley (Owner)  
Marvin Crumley (Owner)  
George H. Harkley (Owner)  
L. C. Jones (Owner)  
John L. Jones (Owner)

VENTURA ABSTRACT COMPANY, (Trustee)  
Ruben W. Kiehl (Owner)  
Anna A. Kiehl (Owner)  
By J. C. Bates, President  
Louis C. Draper, Secretary  
By J. C. Bates, President  
Louis C. Draper, Secretary

SANTA ANA BUILDING AND LOAN ASSOCIATION, (Beneficiary)  
By J. C. Bates, President  
Louis C. Draper, Secretary

STATE OF CALIFORNIA, ) ss.  
COUNTY OF ALAMEDA, )

On this 10th day of June, 1929, before me, the undersigned, a Notary Public in and for said County and State, residing therein, duly commissioned and qualified, personally appeared C. A. A. MOORE, known to me to be the President, and BERNARD S. GOLDSMITH, known to me to be the Secretary of the corporation that executed the within and foregoing instrument, and known to me to be the persons who executed said instrument on behalf of the corporation therein named, and they acknowledged to me that such corporation executed the same.

WITNESS my hand and official seal, the day and year first above written.

Francis Mc Dermott  
Notary Public in and for the County of Alameda,  
State of California.

STATE OF CALIFORNIA, ) ss.  
COUNTY OF VENTURA, )

On this 26th day of July, 1929, before me, the undersigned, a Notary Public in and for said County and State, residing therein, duly commissioned and sworn, personally appeared J. H. HINSDALE, known to me to be the President, and LESTER A. JONES, known to me to be the Secretary of SOUTHERN CALIFORNIA TITLE COMPANY, the corporation described in the within and foregoing instrument, and known to me to be the persons who executed said instrument on behalf of the corporation therein named, and they acknowledged to me that such corporation executed the same.

WITNESS my hand and official seal the day and year first above written.

Harold M. Bailey  
Notary Public in and for the County of Ventura,  
State of California.

STATE OF CALIFORNIA, ) ss.  
COUNTY OF VENTURA, )

On this 27th day of July, 1929, before me, the undersigned, a Notary Public in and for said County and State, residing therein, duly commissioned and sworn, personally appeared J. C. Bates, known to me to be the President, and John L. Jones, known to me to be the Secretary of UNIVERSAL BUILDING-LOAN ASSOCIATION, the corporation described in the within and foregoing instrument, and known to me to be the persons who executed said instrument on behalf of the corporation therein named, and they acknowledged to me that such corporation executed the same.

WITNESS my hand and official seal, the day and year first above written.

Francis Mc Dermott  
Notary Public in and for the County of Ventura,  
State of California.

STATE OF CALIFORNIA, ) ss.  
COUNTY OF VENTURA, )

On this 5th day of August, 1929, before me, the undersigned, a Notary Public in and for said County and State, residing therein, duly commissioned and sworn, personally appeared A. C. Bates, known to me to be the President, and John L. Jones, known to me to be the Secretary of VENTURA ABSTRACT COMPANY, the corporation described in the within and foregoing instrument, and known to me to be the persons who executed said instrument on behalf of the corporation therein named, and they acknowledged to me that such corporation executed the same.

WITNESS my hand and official seal, the day and year first above written.

Francis Mc Dermott  
Notary Public in and for said County and State.

STATE OF CALIFORNIA, ) ss.  
COUNTY OF VENTURA, )

On this 5th day of Aug, 1929, before me, the undersigned, a Notary Public in and for said County and State, residing therein, duly commissioned and qualified, personally appeared J. C. Bates, known to me to be the President, and John L. Jones, known to me to be the Secretary of SOUTHERN CALIFORNIA TITLE COMPANY, the corporation described in the within and foregoing instrument, and known to me to be the persons who executed said instrument on behalf of the corporation therein named, and they acknowledged to me that such corporation executed the same.

WITNESS my hand and official seal, the day and year first above written.

Francis Mc Dermott  
Notary Public in and for the County of Ventura,  
State of California.

STATE OF CALIFORNIA, ) ss.  
COUNTY OF VENTURA, )

On this 27th day of June, 1929, before me, the undersigned, a Notary Public in and for said County and State, residing therein, duly commissioned and sworn, personally appeared CHARLES R. SAWYER and CARIE W. SAWYER, husband and wife, known to me to be the persons described in and whose names are subscribed to the within instrument, and they acknowledged to me severally that they executed the same.

WITNESS my hand and official seal, the day and year first above written.

Francis Mc Dermott  
Notary Public in and for the County of Ventura,  
State of California.

STATE OF CALIFORNIA, ) ss.  
COUNTY OF VENTURA, )

On this 8th day of June, 1929, before me, the undersigned, a Notary Public in and for said County and State, residing therein, duly commissioned and sworn, personally appeared JOHN L. STUART and EMILY M. STUART, husband and wife, known to me to be the persons described in and whose names are subscribed to the within instrument, and they acknowledged to me severally that they executed the same.

WITNESS my hand and official seal, the day and year first above written.

Francis Mc Dermott  
Notary Public in and for the County of Ventura,  
State of California.

STATE OF CALIFORNIA, ) ss.  
COUNTY OF VENTURA, )

On this 8th day of June, 1929, before me, the undersigned, a Notary Public in and for said County and State, residing therein, duly commissioned and sworn, personally appeared ROY H. DALE and MARIAN H. DALE, husband and wife, known to me to be the persons described in and whose names are subscribed to the within instrument, and they acknowledged to me severally that they executed the same.

WITNESS my hand and official seal, the day and year first above written.

Francis Mc Dermott  
Notary Public in and for the County of Ventura,  
State of California.

STATE OF CALIFORNIA, ) ss.  
COUNTY OF VENTURA, )

On this 8th day of June, 1929, before me, the undersigned, a Notary Public in and for said County and State, residing therein, duly commissioned and sworn, personally appeared J. H. MEYER and GERDA M. MEYER, husband and wife, known to me to be the persons described in and whose names are subscribed to the within instrument, and they acknowledged to me severally that they executed the same.

WITNESS my hand and official seal, the day and year first above written.

Francis Mc Dermott  
Notary Public in and for the County of Ventura,  
State of California.

STATE OF CALIFORNIA, ) ss.  
COUNTY OF VENTURA, )

On this 27th day of July, 1929, before me, the undersigned, a Notary Public in and for said County and State, residing therein, duly commissioned and sworn, personally appeared JOHN W. CRUMLEY and MARIE CRUMLEY, husband and wife, and GEORGE W. HARKER, a single man, known to me to be the persons described in and whose names are subscribed to the within instrument, and they acknowledged to me severally that they executed the same.

WITNESS my hand and official seal, the day and year first above written.

Francis Mc Dermott  
Notary Public in and for the County of Ventura,  
State of California.

STATE OF CALIFORNIA, ) ss.  
COUNTY OF VENTURA, )

On this 8th day of June, 1929, before me, the undersigned, a Notary Public in and for said County and State, residing therein, duly commissioned and sworn, personally appeared RUBEN W. KIEHL and ANNA KIEHL, his wife, known to me to be the persons described in and whose names are subscribed to the within instrument, and they acknowledged to me severally that they executed the same.

WITNESS my hand and official seal, the day and year first above written.

Francis Mc Dermott  
Notary Public in and for the County of Ventura,  
State of California.

STATE OF CALIFORNIA, ) ss.  
COUNTY OF VENTURA, )

On this 8th day of June, 1929, before me, the undersigned, a Notary Public in and for said County and State, residing therein, duly commissioned and sworn, personally appeared RUBEN W. KIEHL and ANNA KIEHL, his wife, known to me to be the persons described in and whose names are subscribed to the within instrument, and they acknowledged to me severally that they executed the same.

WITNESS my hand and official seal, the day and year first above written.

Francis Mc Dermott  
Notary Public in and for the County of Ventura,  
State of California.



- ENGINEER'S CERTIFICATE -

I, H. B. WAUD, do hereby certify that I am a Civil Engineer; that I have under instructions from Ojai Ranch and Development Company, subdivided the lands delineated upon this map, consisting of three (3) sheets, this being Sheet No. 3 thereof, into lots, blocks, avenues and drives, and in making said survey I have established permanent monuments at the locations plainly indicated upon this map, by which any surveyor or engineer may retrace my work.

WITNESS my hand this 15 day of JUNE, 1929.

H. B. Waud  
Civil Engineer.

- COUNTY TAX COLLECTOR'S CERTIFICATE -

I, GEORGE J. LITTLE, County Tax Collector of the County of Ventura, State of California, do hereby certify that the County taxes for the fiscal year 1928-29 on that certain tract of land shown on the map entitled, "Subdivision No. 2, Meiners Ojai Oaks", have been paid in full.

WITNESS my hand this 27<sup>th</sup> day of July, 1929.

George J. Little  
County Tax Collector.

- COUNTY AUDITOR'S CERTIFICATE -

I, R. N. HAYDON, County Auditor of the County of Ventura, State of California, do hereby certify that there are no liens for unpaid State or County taxes against the tract of land shown on the map entitled, "Subdivision No. 2, Meiners Ojai Oaks", except the taxes for the fiscal year 1928-29, which are not yet due or payable.

WITNESS my hand and official seal, this 27<sup>th</sup> day of July, 1929.

R. N. Haydon  
County Auditor.  
Charles W. Potts  
County Assessor's Deputy

- COUNTY SURVEYOR'S AND COUNTY ASSESSOR'S CERTIFICATE -

WE, CHARLES W. POTTS, County Surveyor, and W. M. REESE, County Assessor, of the County of Ventura, State of California, each for himself certify that the tract of land shown on the map to which this certificate is attached, entitled "Subdivision No. 2, Meiners Ojai Oaks", is situated within the County of Ventura, State of California, and that no part thereof lies within the corporate limits of any incorporated city or town; that we have carefully examined each and every lot and block shown upon said map, as to its value for residence or commercial use, and hereby suggests and recommends to the Board of Supervisors of the County of Ventura, State of California, that such Board of Supervisors approve said map.

WITNESS our hands, this 26<sup>th</sup> day of July, 1929.

Charles W. Potts  
County Surveyor.  
W. M. Reese  
County Assessor.

- CITY ENGINEER'S CERTIFICATE -

I, H. B. WAUD, City Engineer of the City of Ojai, do hereby certify that the tract of land shown on the map designated as "Subdivision No. 2, Meiners Ojai Oaks", is an unincorporated territory, but is within three miles of the exterior boundary lines of the City of Ojai, County of Ventura, State of California, which City is the incorporated City lying nearest to said tract; that there is no City Planning Commission in the City of Ojai; that I have examined said map, and do hereby approve the same, and recommend to the Board of Trustees of said City of Ojai, that it approve the same.

WITNESS my hand this 15 day of June, 1929.

H. B. Waud  
City Engineer.

- CITY BOARD OF TRUSTEES' CERTIFICATE -

This is to certify that the Board of Trustees of the City of Ojai is the governing body of said City; that said Board has examined the map to which this certificate is attached, entitled "Subdivision No. 2, Meiners Ojai Oaks", said property lying outside of the City limits, but within three miles of the exterior boundary lines of said City; that said Board has approved and does hereby approve the same, and recommends to the Board of Supervisors of the County of Ventura, that said Board of Supervisors approve the same.

IN WITNESS WHEREOF, said Board of Trustees has caused this certificate to be signed by its duly authorized officers, and has caused the seal of the City of Ojai to be hereto affixed, this 10 day of June, 1929.

A. L. Brown  
President of the Board of Trustees  
of the City of Ojai.

L. O. Coulter  
City Clerk and Ex-Officio Clerk of the Board of Trustees of said City of Ojai.



- COUNTY CLERK'S CERTIFICATE -

I, L. E. HALLOWELL, County Clerk of the County of Ventura, State of California, and Ex-Officio Clerk of the Board of Supervisors of said County, do hereby certify that Ojai Ranch and Development Company has executed and filed with said Board of Supervisors, a good and sufficient Bond that has been approved by said Board, in the sum of \$500.00, being the amount fixed by said Board, which bond by its terms, is made to inure to the benefit of said County of Ventura, and is conditioned upon the payment of all taxes which are, at the date of filing of this map, a lien against the tract of land, or any part thereof, shown upon said map, to which this certificate is attached, entitled "Subdivision No. 2, Meiners Ojai Oaks", but not yet payable.

IN WITNESS WHEREOF, I have hereunto set my hand and caused the seal of said County of Ventura to be hereunto affixed, this 6<sup>th</sup> day of August, 1929.

L. E. Hallowell  
County Clerk.

County Clerk of said County of Ventura, and Ex-Officio Clerk of the Board of Supervisors of said County.

- BOARD OF SUPERVISOR'S CERTIFICATE -

This map, entitled "Subdivision No. 2, Meiners Ojai Oaks", consisting of three (3) sheets, this being Sheet No. 3, being presented to the Board of Supervisors of Ventura County, California, at a regular meeting of said Board, held on the day of August, 1929, is hereby approved by said Board, and said Board does hereby accept, on behalf of the public, said public use, "El Condo Drive", "Alvarado Avenue", "Trinidad Avenue", "Pablo Juan Avenue", "Pablo Avenue", and "Metilja Road".

IN WITNESS WHEREOF, said Board of Supervisors has caused this certificate to be signed by its Chairman, and attested by its Clerk, and the official seal of the County Clerk of said County of Ventura to be hereto affixed, this 6<sup>th</sup> day of August, 1929.

BOARD OF SUPERVISORS OF THE COUNTY OF VENTURA, STATE OF CALIFORNIA.

By J. G. Hallard  
Chairman of said Board.

ATTEST:

L. E. Hallowell

STATE OF CALIFORNIA, ) ss.  
COUNTY OF VENTURA, )

On this 26<sup>th</sup> day of July, 1929, before me, the undersigned, a Notary Public in and for said County and State, residing therein, duly commissioned and sworn, personally appeared J. L. HINSHAW, known to me to be the Vice-President, and D. J. ERALEUNY, known to me to be the Secretary of Security Life Insurance and Guarantee Company, Trustee, and corporation described in the within Owners' Certificate, and also known to me to be the persons who executed said certificate on behalf of the corporation therein named, and they acknowledged to me that such corporation executed the same, as such trustee.

WITNESS my hand and official seal, the day and year first above written.

Harold M. Bailey  
Notary Public in and for the County of Ventura, State of California.

STATE OF CALIFORNIA, ) ss.  
COUNTY OF LOS ANGELES, )

On this 31st day of July, 1929, before me, the undersigned, a Notary Public in and for said County and State, residing therein, duly commissioned and sworn, personally appeared F. O. Hays, known to me to be the Base Agent, and W. M. Reese, known to me to be the Secretary, of said Pacific Coast Building-Loan Association, Beneficiary, the corporation described in the within Owners' Certificate, and also known to me to be the persons who executed said certificate on behalf of the corporation therein named, and they acknowledged to me that such corporation executed the same, as such beneficiary.

WITNESS my hand and official seal, the day and year first above written.

Harold M. Bailey  
Notary Public in and for the County of Los Angeles, State of California.

RECORDED AT REQUEST OF SOUTHERN CALIFORNIA TITLE CO. AUGUST 9TH, 1929  
AT 3 MIN. PAST 11 O'CLOCK A. M. IN BOOK 15 OF MISCELLANEOUS RECORDS  
(MAPS) AT PAGE 45 ET SEQ, VENTURA COUNTY RECORDS.

R. N. HAYDON, COUNTY RECORDER  
By Olivia Mortanis DEPUTY



PROJECT SCOPE

CONVERSION OF (E) WORKSHOP INTO A (N)  
ACCESSORY DWELLING UNIT PER PLANS.

PROJECT INFORMATION

SITE / ADDRESS:	260 N. ALVARADO AVE., OJAI, CA
OWNER/ADDRESS:	OJAI EL ROBLAR, LLC JOSH RABINOWITZ, MGR 1021 ANACAPA STREET, 2ND FLR SANTA BARBARA, CA 93101 (805) 882 1421
APN:	017007140
LOT SIZE:	9767 SF / .21 ACRE
ZONE:	R1-6
OCCUPANCY:	R-3
CONST TYPE:	TYPE V-B
NO. STORIES:	1
FIRE SEVERITY AREA:	YES
FIRE SPRINKLERS:	NO
(E) AREAS	SF
(E) RESIDENCE:	1,123
(E) GARAGE:	540
(E) WORKSHOP CONV: (ADU CONVERSION)	384
(N) ADU AREA TOTAL:	384

SHEET INDEX

T-0	COVER SHEET, SITE PLAN, PROJECT INFO VICINITY MAP
T-1	CONST NOTES
T-2	CONST NOTES
A-1	(E) PLAN, (N) ADU PLAN, ROOF PLAN, FRAMING & FOUNDATION PLANS
A-2	ELEVATIONS & CROSS SECTION
A-3	DR & WIND SCHED'S & REF FLR PLAN
E-1	ELECT / MECH PLAN
EN-1	TITLE-24 FORMS
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GRN1	GREEN BUILDING NOTES

COVER SHEET  
PROJ INFO  
SITE PLAN  
VIC MAP

260  
N. ALVARADO  
AVENUE

OJAI EL ROBLAR LLC

OJAI,  
CALIFORNIA

Ray Ames - Designer

Ray Ames

2309 Aztec Ave  
Ventura, CA 93001  
(805) 407-9327  
fthillray@yahoo.com  
foothilldesigngroup.com  
houzz.com/pro/fthillray

1.25.23

T-0

BEST MANAGEMENT PRACTICES

ALL OF THE FOLLOWING MUST BE FOLLOWED

ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, ARE DRAINS, NATURAL DRAINAGE COURSES OR WIND.

STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.

FUELS, OILS, SOLVENTS AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.

EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS MUST BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF AS A SOLID WASTE.

TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.

SEDIMENTS AND OTHER MATERIAL MAY NOT BE TRACED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEEPED UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.

ANY SLOPE WITH DISTURBED SOILS OR DEMANDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.

KEYED NOTES

- (E) RESIDENCE
- (E) DRIVEWAY
- (E) GARAGE
- (E) WORKSHOP TO BE CONVERTED TO ADU
- REAR YARD
- FRONT YARD
- N. ALVARADO RIGHT OF WAY
- MIN 6" FALL FOR F RST 10 FEET AWAY FROM THE STRUCTURE
- 4" GUTTERS / DOWNSPOUTS - DRAIN TO (E) YARD DRAIN / SWALE TO STREET
- 36" DIA OAK TREE

KEYED NOTES

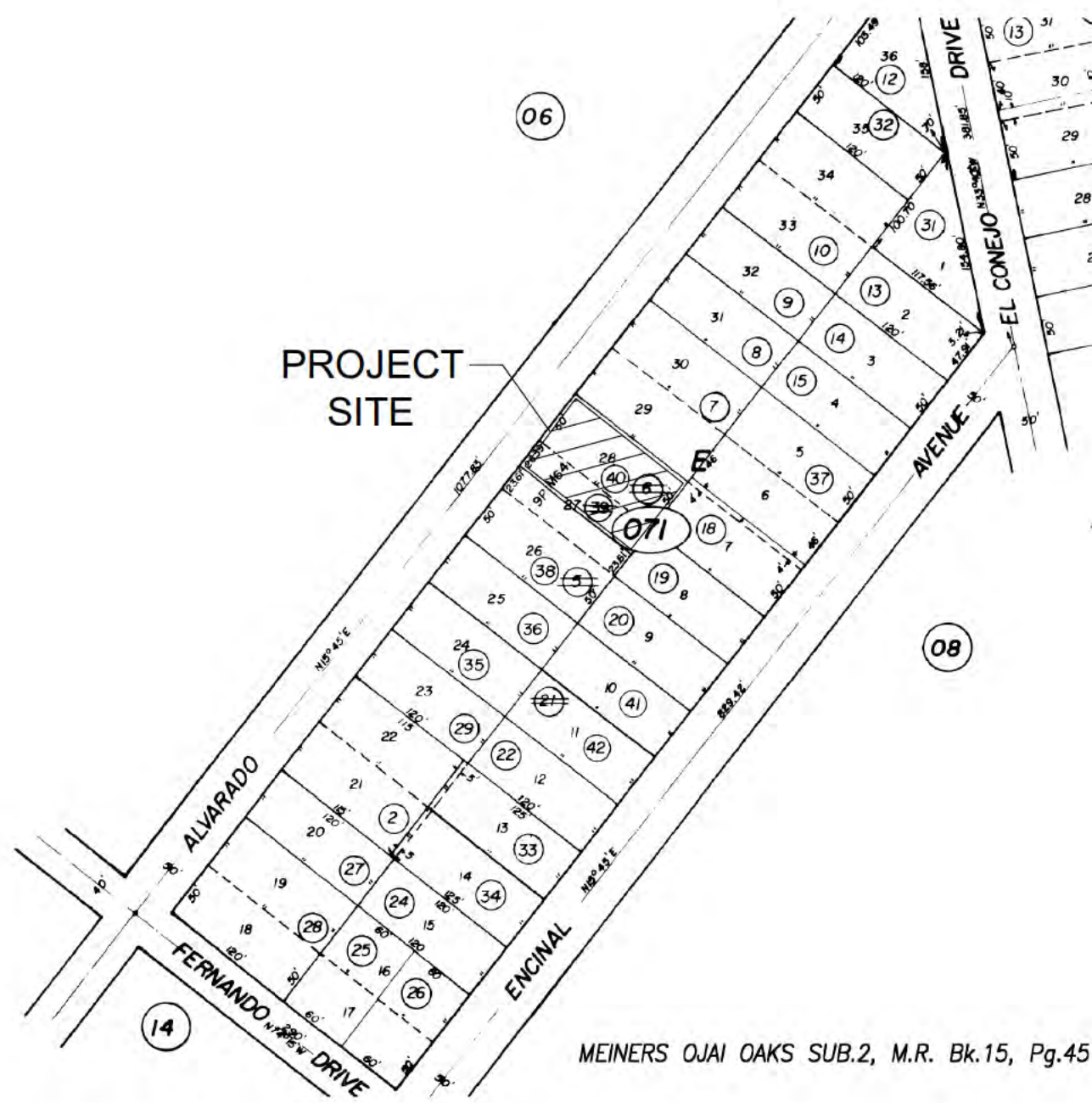
1. NO GRADING IS REQU REQD

SIGNED:  
RAY AMES, DESIGNER

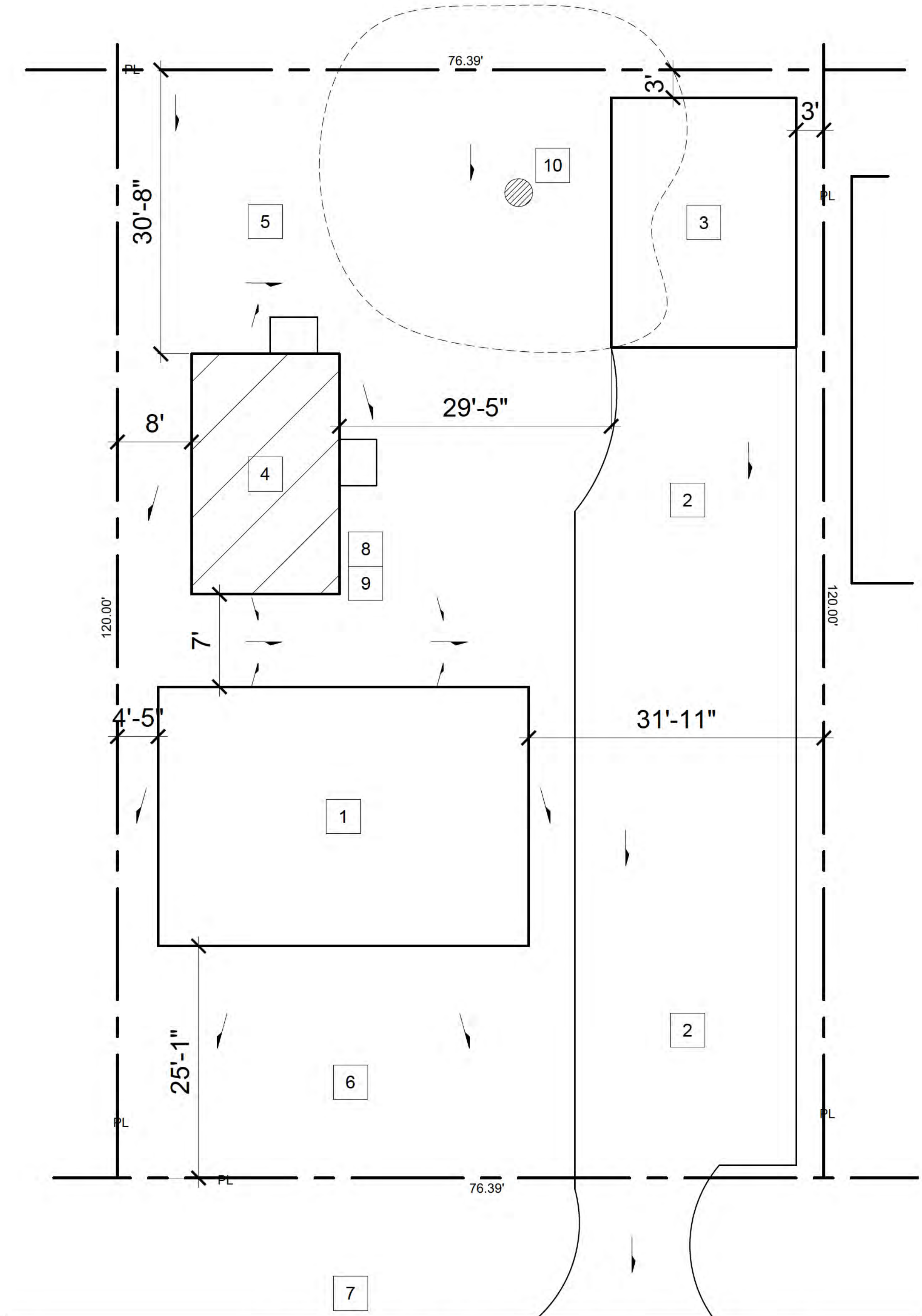
CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES.

2022 VENTURA COUNTY BUILDING CODE / ORDINANCES  
2022 CALIFORNIA GREEN BLDG STAND CODE  
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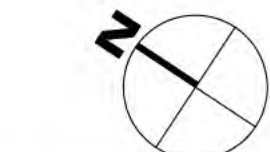


VICINITY MAP



N. ALVARADO AVENUE

SITE PLAN



1/8" = 1'-0"



(N) ADU FLR PLAN  
ROOF PLAN  
REF FOUND PLN  
REF FRAM'G PLN

260  
N. ALVARADO  
AVENUE

OJAI EL ROBLAR LLC  
[REDACTED]

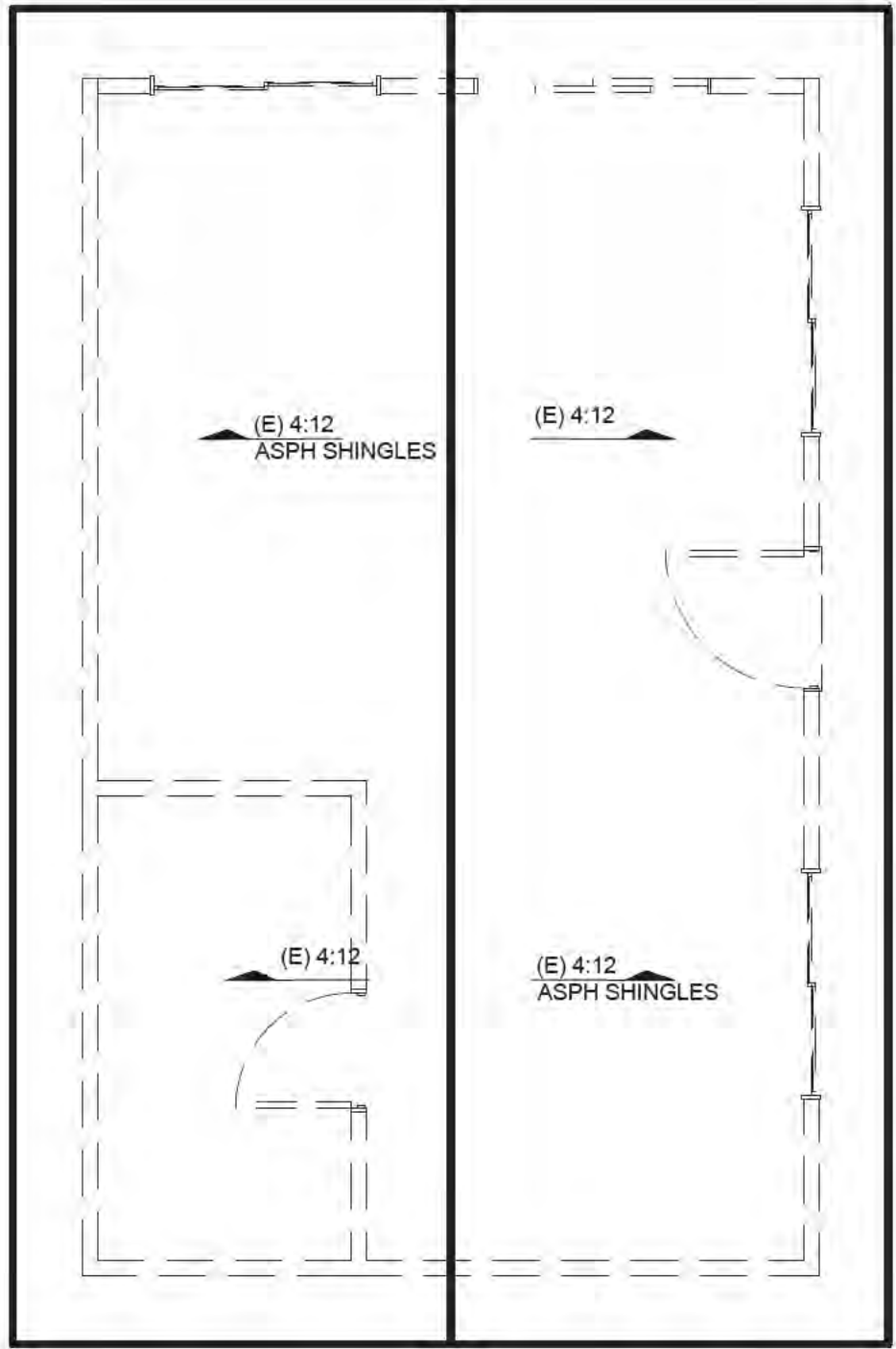
OJAI,  
CALIFORNIA

Ray Ames - Designer

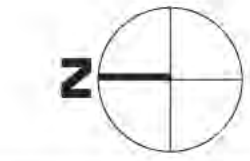
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1.25.23

A-1



(E) ROOF PLAN



1/4" = 1'-0"

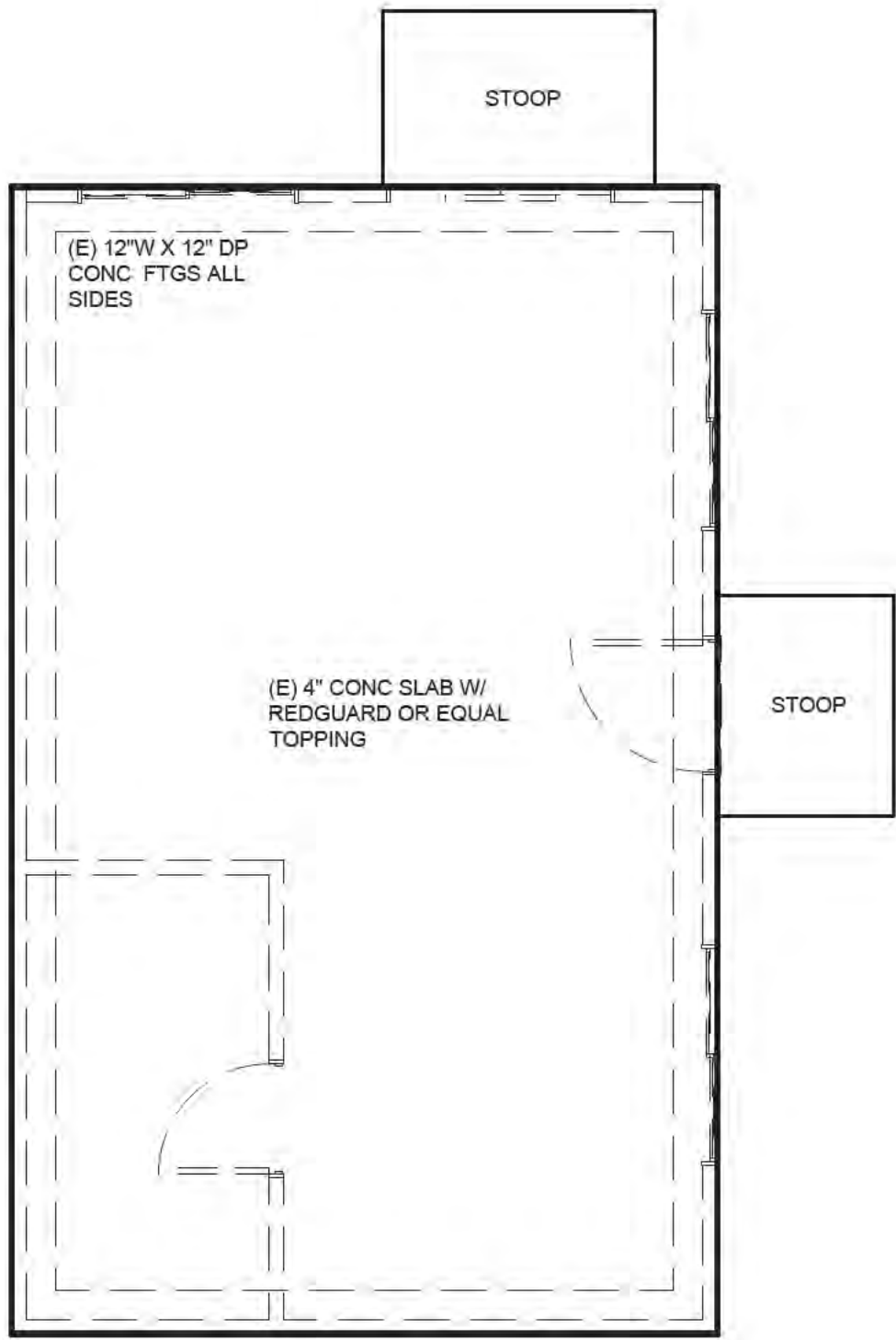


(E) / (N) ADU FLOOR PLAN



1/4" = 1'-0"

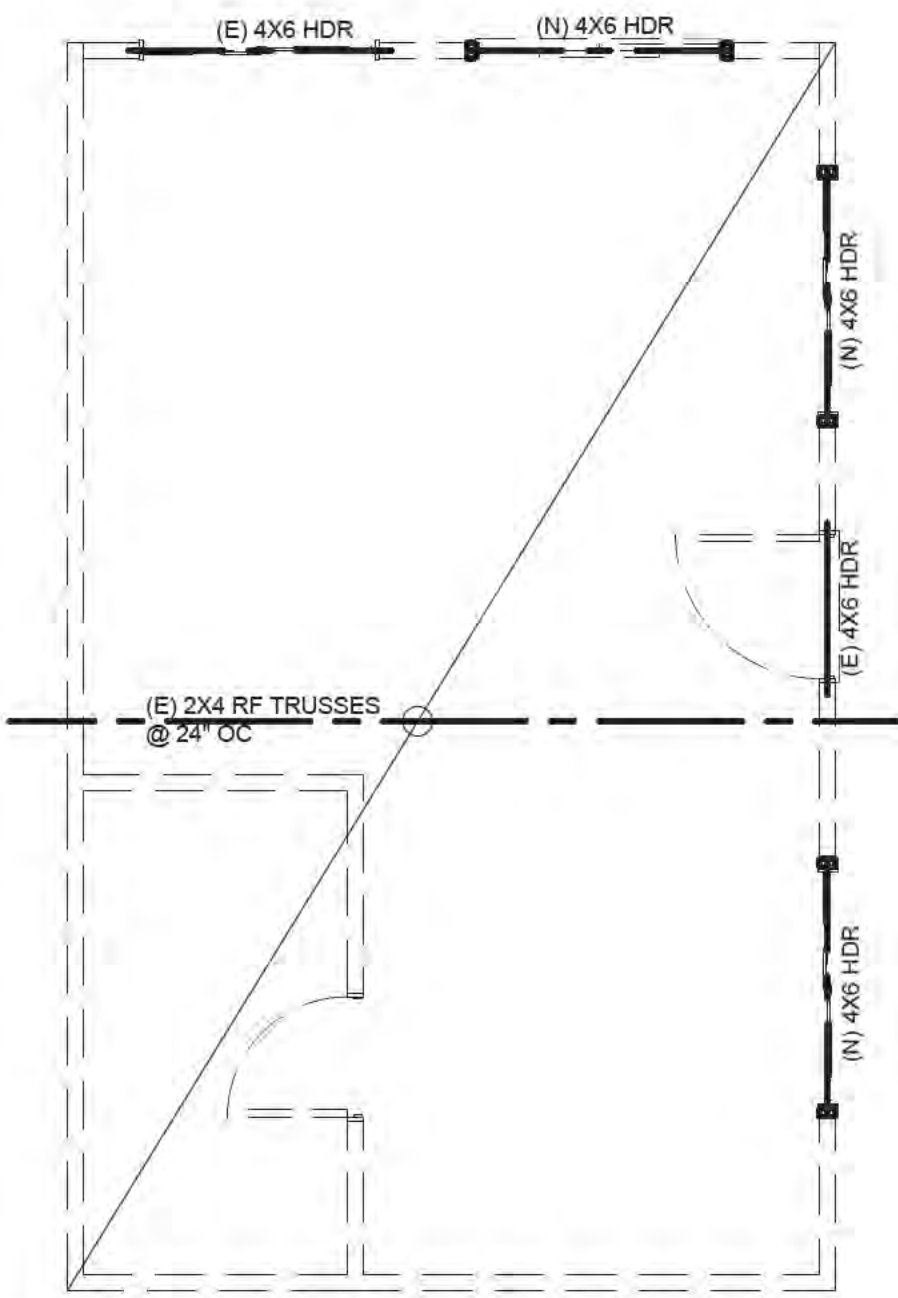
WALL LEGEND  
(E) 2X4 WALLS



(E) WORKSHOP FOUND PLAN



1/4" = 1'-0"



(E) WORKSHOP FRAMING PLAN



1/4" = 1'-0"



ELEVATION  
CROSS SECTION  
KEYED NOTES

260  
N. ALVARADO  
AVENUE

OJAI EL ROBLAR LLC

OJAI,  
CALIFORNIA

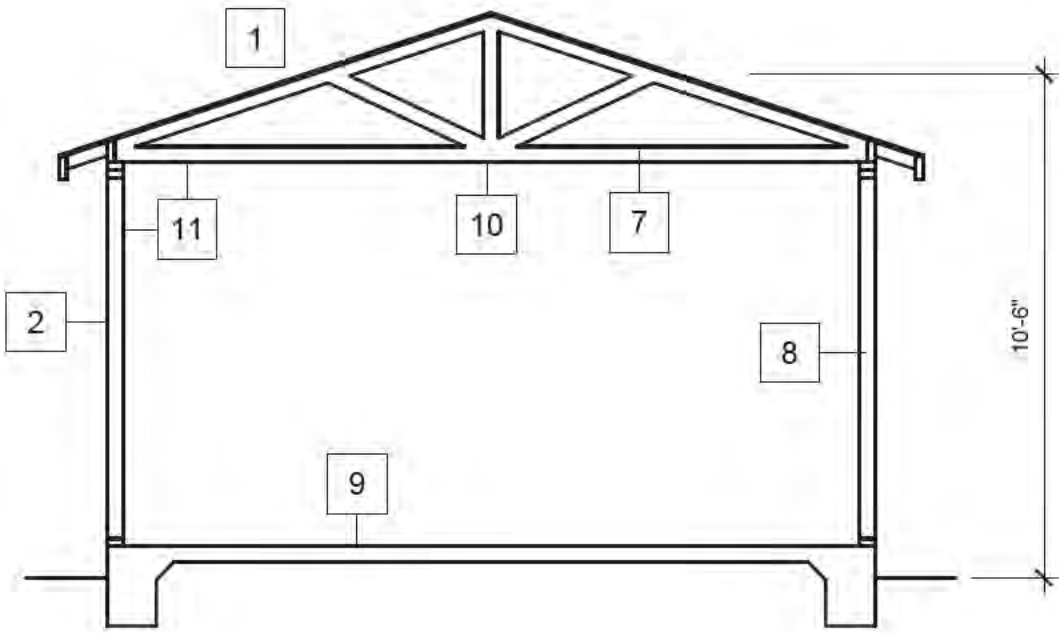
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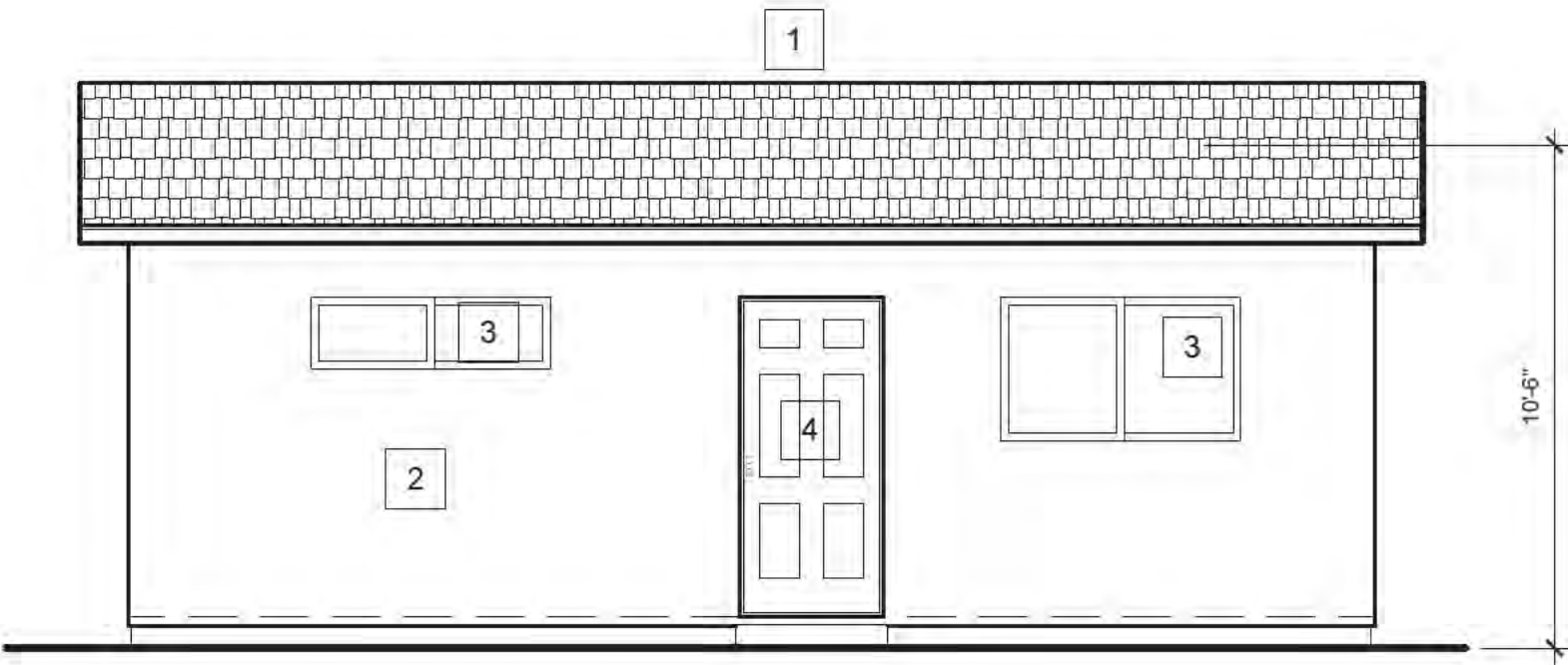
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A-2



CROSS SECTION

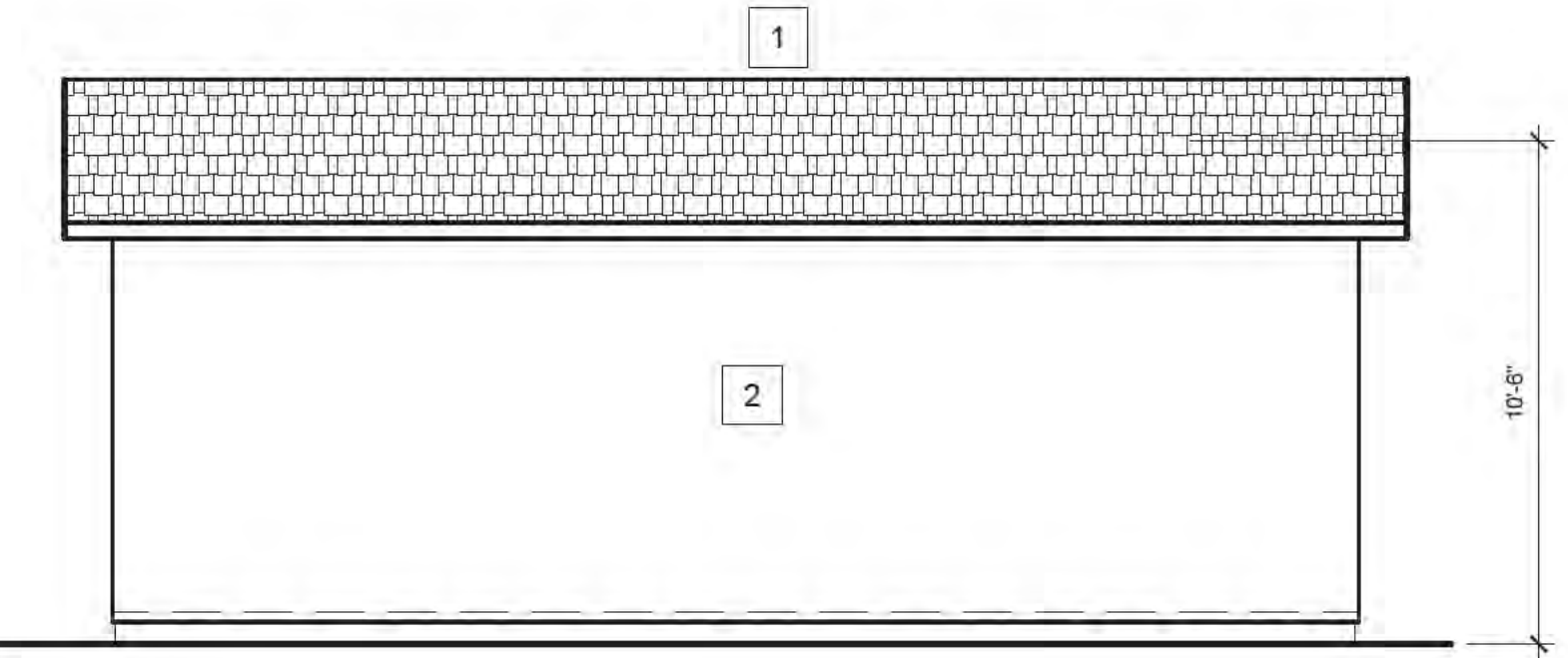
1/4" = 1'-0"



FRONT / SOUTH ELEVATION

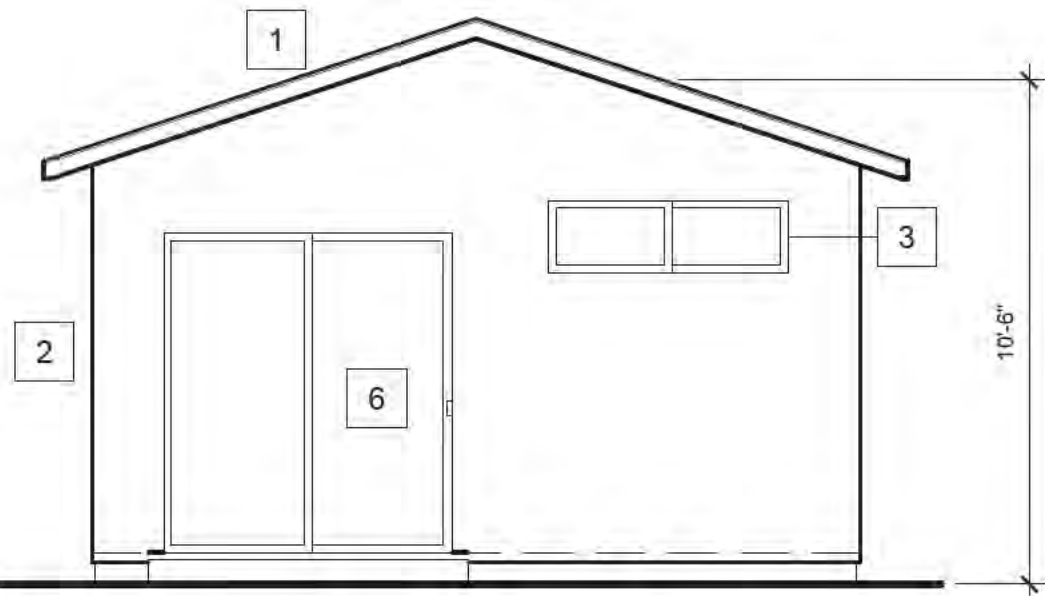
1/4" = 1'-0"

KEYED NOTES	
1	(E) ASPHALT SHINGLE ROOFING
2	(E) STUCCO
3	(E) D.G. VINYL W NDOWS - (1) PANE TEMP
4	(E) F BERGLASS FRONT DOOR
5	NA
6	(E) VINYL SLIDING DOOR - (1) PANE TEMP
7	(N) R30 INSULATION
8	R15 INSULATION
9	(E) CONG SLAB W/ "REDGUARD" OR EQUAL APPLIED FOR WATERPROOFING
10	(E) WOOD TRUSSES
11	3/4" GYP BD, WALLS & CE L NG



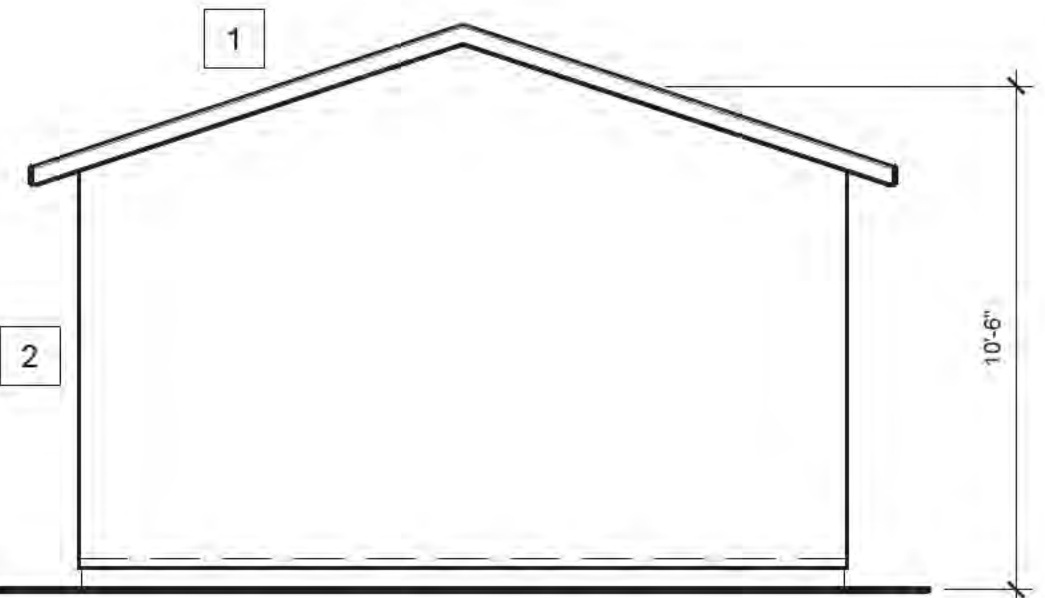
REAR / NORTH ELEVATION

1/4" = 1'-0"



RIGHT / EAST ELEVATION

1/4" = 1'-0"



LEFT / WEST ELEVATION

1/4" = 1'-0"



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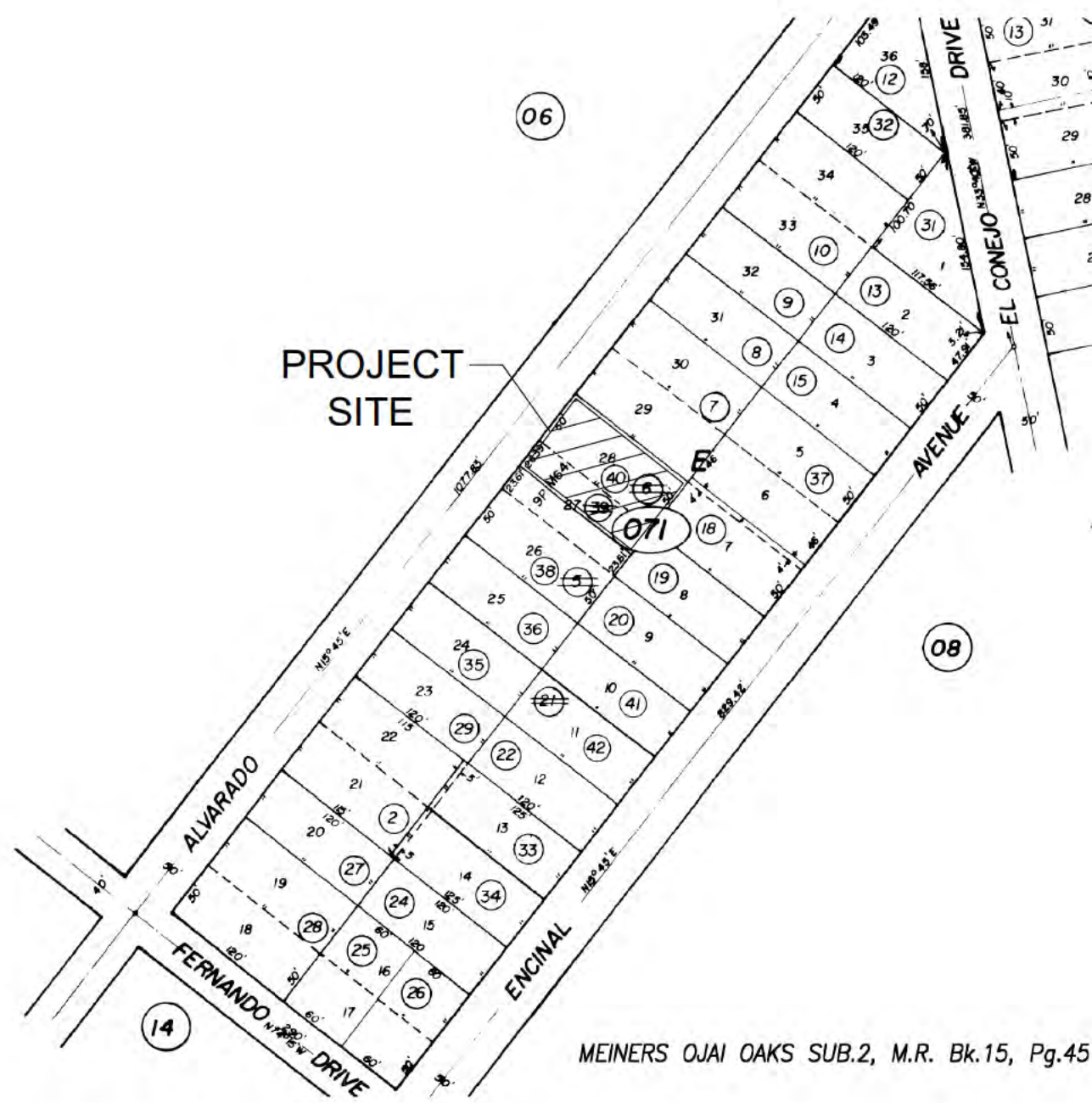
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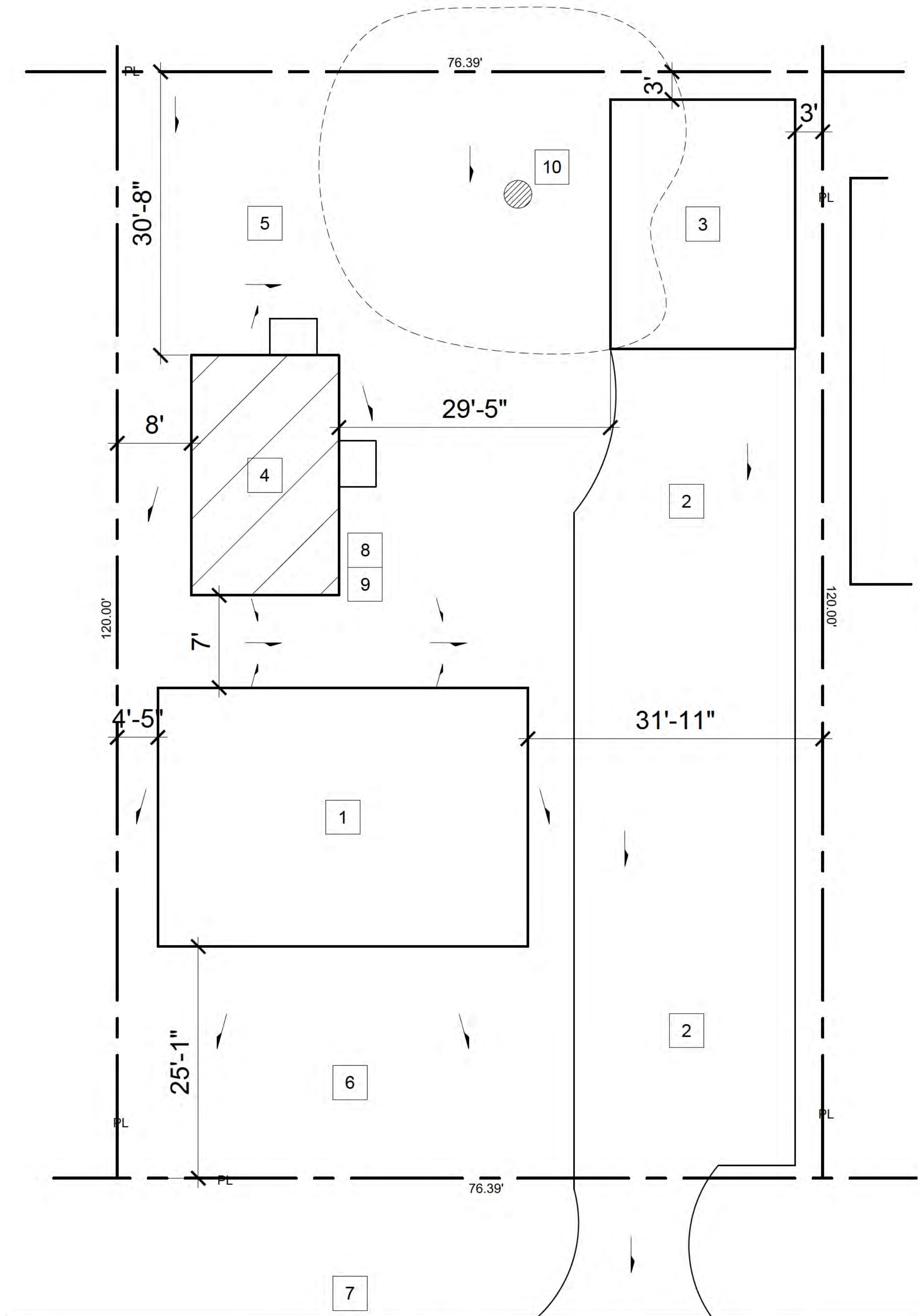
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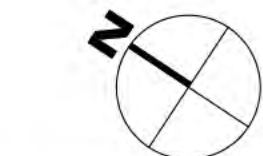


VICINITY MAP



N. ALVARADO AVENUE

SITE PLAN



1/8" = 1'-0"



GENERAL NOTES



CONST NOTES

260  
N. ALVARADO  
AVENUE

OJAI EL ROBLAR LLC

OJAI,  
CALIFORNIA

Ray Ames - Designer

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1.23.23

T-1

SUBCONTRACTORS SHALL BE RESPONSIBLE FOR ALL TRADE RELATED ITEMS, WHETHER SPECIFICALLY SHOWN OR IMPLIED WITHIN THE CONSTRUCTION DOCUMENTS		SUBCONTRACTOR SHALL BE RESPONSIBLE FOR INCLUSION OF FULL CONSTRUCTION DOCUMENTS WITHIN ACCEPTED BID.	
DIV 0 GENERAL			
0.01	DIMENSIONS:	A. INTERIOR PLAN DIMENSIONS ARE TO FACE OF STUD OR CONCRETE (CMU) UNLESS A CENTERLINE/GRIDLINE IS INDICATED, WHICH WILL THEN INDICATE THE DIMENSION IS TO CENTER OF ELEMENT. (COLUMN, WALL, STUD, ETC...).	
	B. EXTERIOR PLAN DIMENSIONS ARE TO FACE OF FOUNDATION UNLESS A CENTERLINE OR GRIDLINE IS INDICATED, WHICH WILL THEN INDICATE THE DIMENSION IS CENTER OF ELEMENT. SEE EXTERIOR DETAILS FOR ADDITIONAL INFO.		
	C. DOOR AND CASED OPENINGS WITHOUT LOCATION DIMENSIONS ARE FOUR & ONE-HALF (4 1/2) INCHES FROM FACE OF ADJACENT PARTITION OR CENTERED BETWEEN PARTITIONS (UON).		
	D. ALIGNMENT TAKES PRECEDENCE OVER DIMENSIONS. VERIFY ALL DIMENSIONS AND CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.		
	E. EXTERIOR WINDOWS ARE DIMENSIONED TO CENTERLINE OF WINDOW, SIZE AS INDICATED ON WINDOW SCHEDULE & PER MFR SPECS. SUBCONTRACTOR SHALL DETERMINE WINDOW ROUGH OPENING REQUIREMENTS.		
	F. DO NOT SCALE DRAWINGS - NOTIFY THE ARCHITECT IF ANY DISCREPANCIES ARE FOUND PRIOR TO FABRICATION AND CONSTRUCTION. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SECURE ALL REQUIRED DIMENSIONS.		
	G. CONTRACTOR & SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE, AND REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR INTERPRETATION AND OR CORRECTIONS PRIOR TO INSTALLATION. COST OF CORRECTING WORK BASED ON MISINTERPRETATION BY CONTRACTOR OR UNREPORTED DIMENSIONAL DISCREPANCIES SHALL BE BORNE BY THE CONTRACTOR.		
	H. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE ON THE DRAWINGS. LARGE SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS. DIMENSIONS GOVERN MEASUREMENTS.		
0.02	CODES	A. ALL WORK SHALL CONFORM TO CURRENT APPLICABLE BUILDING CODES AND LOCAL ORDINANCES AND REGULATIONS. IN CASE OF ANY CONFLICT WHERE SPECIFIED DOES NOT EQUAL OR EXCEED THE REQUIREMENTS OF THE LAWS OR ORDINANCES, THE LAWS OR ORDINANCES SHALL GOVERN. NOTIFY THE ARCHITECT OF ALL CONFLICTS. CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTION PRIOR TO CONSTRUCTION AT NO COST TO OWNER OR ARCHITECT.	
	B. ONE (1) COPY OF THESE CODES AND REGULATIONS SHALL BE IN THE CONTRACTORS' FIELD OFFICE DURING CONSTRUCTION.		
0.03	ABBREVIATIONS & SYMBOLS	A. THROUGHOUT THE PLAN ARE ABBREVIATIONS & SYMBOLS WHICH ARE IN COMMON USE. THE LIST OF ABBREVIATIONS & SYMBOLS PROVIDED IS NOT INTENDED TO BE COMPLETE OR REPRESENTATIVE OF CONDITIONS OR MATERIALS ACTUALLY USED ON THE PROJECT. THE ARCHITECT WILL DEFINE THE INTENT OF ANY IN QUESTION. CONTRACTOR HALL BE FULLY RESPONSIBLE FOR UNDERSTANDING ALL ABBREVIATIONS & SYMBOLS.	
0.04	ELEVATION DATUMS	A. CEILING HEIGHTS INDICATED ON THE REFLECTED CEILING HEIGHTS ARE FROM TOP OF SLAB/OR FINISH FLOOR TO FINISH CEILING U.O.N.	
0.05	DEFINITIONS	A. SUBCONTRACTOR & TRADE CONTRACTOR SHALL BE SYNONYMOUS	
	B. GENERALLY ACCEPTED TRADE RELATED ITEMS THAT ARE IDENTIFIED AS CONTRACTOR SHALL BE SYNONYMOUS WITH SUBCONTRACTOR.		
	C. CONSTRUCTION DOCUMENTS SHALL INCLUDE BUT NOT BE LIMITED TO: CONSTRUCTION DRAWINGS, SPECIFICATIONS, ADDENDUM AND BIDDING DOCUMENTS, SUPPLEMENTAL PROFESSIONAL REPORTS (E.G. SOILS REPORT, ACOUSTICAL REPORT), APPLICABLE BUILDING CODES (E.G. CALIFORNIA BUILDING CODE C.B.C. 2001)		
DIV 1 GENERAL CONDITIONS			
1.01	THE ENTIRE WORK PROVIDED FOR HEREIN IS TO BE CONSTRUCTED AND FINISHED IN EVERY PART IN A GOOD AND SUBSTANTIAL MANNER IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, TO THE FULL INTENT OF THE SAME. ANY WORK REQUIRED BY LAW, BUT WHICH MAY NOT BE SPECIFICALLY MENTIONED BY LAW, SHALL BE DONE BY CONTRACTORS IN ACCORDANCE WITH THE LAWS OF THE COUNTY, DISTRICT, OR STATE UNDER WHICH JURISDICTION MAY COME AND COST SHALL BE BORNE BY CONTRACTORS. ANY SUCH WORK SHALL BE DONE IN CONFORMANCE WITH THE PLAN, BOTH AS TO MANNER AND APPEARANCE. ALL WORK SHALL BE DONE IN ACCORDANCE WITH C.B.C., TITLE 24 AND AS REQUIRED BY THE LOCAL GOVERNING AGENCIES. IT SHALL BE FULLY THE CONTRACTORS RESPONSIBILITY TO COMPLY WITH CODES AT NO ADDITIONAL EXPENSE TO OWNER OR ARCHITECT.		
1.02	THE DRAWINGS AND SPECIFICATIONS: THESE DRAWINGS COVER THE FURNISHING AND INSTALLATION OF ALL MATERIALS AND WORK AS CALLED FOR ON THE DRAWINGS OR IN THE SPECIFICATIONS (OR IN BOTH) WHICH ARE BOUND SEPARATELY AND ARE A PART OF THE CONTRACT. PRODUCT MANUFACTURER SPECS NOT DETAILED OR NOTED IN PLANS SHALL BE CONSIDERED PART OF THE CONSTRUCTION DOCUMENTS. CIVIL, LANDSCAPING, INTERIOR DESIGN, KITCHEN & LAUNDRY, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF EACH SUBCONTRACTOR TO CHECK WITH THE ARCHITECTURAL DRAWINGS PRIOR TO SUBMITTING THEIR BID AND BEFORE INSTALLATION OF THEIR WORK. ANY DISCREPANCY BETWEEN THE ARCHITECTURAL AND THE CONSULTING ENGINEER(S) DRAWINGS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION BY WRITTEN REQUEST FOR CLARIFICATION. ANY WORK OMITTED OR INSTALLED IN CONFLICT WITH ARCHITECTURAL DRAWINGS SHALL BE PERFORMED OR CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.		
1.03	SOLELY AS A CONVENIENCE TO THE OWNER, THE ARCHITECT MAY INCLUDE DOCUMENTS PREPARED BY CERTAIN CONSULTANTS (OR INCORPORATED THE RECOMMENDATIONS OF SAID CONSULTANTS IN DOCUMENTS PREPARED BY THE ARCHITECT) WITHIN THE SET OF DOCUMENTS ISSUED BY THE ARCHITECT BEING EXPRESSLY UNDERSTOOD THAT, BY SAID ISSUANCE, THE ARCHITECT ASSUMES NO LIABILITY FOR THE SERVICES OF SAID CONSULTANTS NOT UNDER CONTRACT TO THE ARCHITECT.		
1.04	ALL SITE INFORMATION IS BELIEVED TO BE CORRECT, HOWEVER, IT IS FULLY SUBCONTRACTORS RESPONSIBILITY TO VERIFY ALL ACTUAL SITE CONDITIONS PRIOR TO SUBMITTING A BID. ALL RESPONSIBILITY IS BELIEVED TO BE CORRECT, HOWEVER IT IS ALL SUBCONTRACTORS RESPONSIBILITY TO INCLUDE CODE REQUIRED ITEMS NOT SIGNIFICALLY NOTED PRIOR TO BID.		
1.05	THE CONTRACTOR & SUBCONTRACTORS SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, SERVICES AND TRANSPORTATION REQUIRED TO FULLY CARRY OUT THE INTENTIONS OF THE PLANS AND SPECIFICATIONS AS PART OF THE CONTRACT, WHETHER OR NOT SPECIFICALLY DOCUMENTED. THE CONTRACTOR SHALL PROVIDE EACH ITEM MENTIONED, INDICED, OR IMPLIED TO ACHIEVE THE INTENDED BUILDING ACCORDING TO THE METHODS OF BEST CONSTRUCTION PRACTICE. THE ARCHITECT SHALL BE THE FINAL JUDGE AS TO THE QUALITY OF THE WORKMANSHIP, AND RESERVES THE RIGHT TO REJECT ANY WORK CONSIDERED INFERIOR.		
1.06	ALL MANUFACTURED EQUIPMENT AND MATERIALS ARE TO BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, AND ARE TO BE NEW. MANUFACTURER'S RECOMMENDATIONS SHALL BE CONSIDERED A PART OF THESE CONTRACT DOCUMENTS AS THOUGH INCLUDED HEREIN. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH MANUFACTURER SPECS. (WHETHER OR NOT INCLUDED WITHIN THE CONSTRUCTION DOCUMENTS).		
1.07	SUBCONTRACTOR SHALL BE RESPONSIBLE FOR KNOWLEDGE WITH TRADE & INTERFACING TRADES WITHIN CONSTRUCTION DOCUMENTS. CONFLICTS, DISCREPANCIES, OMISSIONS, SHALL BE CONVEYED IN WRITING TO ARCHITECT AND GENERAL CONTRACTOR PRIOR TO SUBMISSION OF BID DOCUMENTS. ARCHITECT SHALL BE GIVEN ADEQUATE RESPONSE TIME TO RESOLVE CONFLICTS, DISCREPANCIES, OMISSIONS. BID TIME MAY BE ADJUSTED BY OWNER SO SUBCONTRACTOR MAY PROPERLY BID ANY SAID CONFLICTS, DISCREPANCIES OR OMISSIONS.		
DIV 0 GENERAL			
1.08	CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR UNDERSTANDING THE INTENT & SPECIFIC REQUIREMENTS WITHIN THE CONSTRUCTION DOCUMENTS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY ARCHITECT OF ANY ERRORS, OMISSIONS OR INCONSISTANCIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR RESOLUTION PRIOR TO BID SUBMITTAL.		
1.09	SUB TRADES ARE WHOLLY RESPONSIBLE FOR UNDERSTANDING & INTEGRATING RELATED REQUIREMENTS WITHIN COMPLETE CONSTRUCTION DOCUMENT PACKAGE. CONTRACTOR, OWNER & ARCHITECT SHALL BE NOTIFIED PRIOR TO SUBMISSION OF BID DOCUMENTS WITH ANY CLARIFICATIONS & OR DISCREPANCIES.		
1.10	BUILDING PERMITS:	A. THE OWNER SHALL OBTAIN THE ARCHITECTURAL BUILDING PERMIT ONLY.	
1.11	COORDINATION:	A. EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION AND COORDINATION WITH OTHER SUBCONTRACTORS TO ASSURE COMPLIANCE WITH DRAWINGS AND SPECIFICATIONS, AND THE ACCURATE LOCATION OF STRUCTURAL MEMBERS AND OPENINGS FOR MECHANICAL, ELECTRICAL, STAIRS, ELEVATORS AND MISCELLANEOUS EQUIPMENT PRIOR TO SUBMISSION OF BID DOCUMENTS.	
	B. SUBCONTRACTORS SHALL VERIFY SIZES & LOCATIONS OF ALL MECHANICAL EQUIPMENT UNITS AND BASES AS WELL AS POWER AND WATER OR DRAIN INSTALLATION WITH EQUIPMENT MANUFACTURERS AND VERIFY CONFORMANCE WITHIN ARCHITECTURAL DOCUMENTATION BEFORE SUBMISSION OF BID DOCUMENTS & PROCEEDING WITH THE WORK. PROCEEDING WITHOUT VERIFICATION SHALL BE DONE SOLELY AT RISK OF SUB-CONTRACTOR.		
	C. THE CONTRACTOR & SUBCONTRACTOR ARE REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES SHOWN AND ANY OTHER UTILITIES OR STRUCTURES AT THE SITE. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK.		
	D. NO STRUCTURAL MEMBER SHALL BE CUT FOR PIPES, DUCTS, ETC., UNLESS SPECIFICALLY DETAILED.		
	E. ALL COMBUSTIBLES CONSISTING OF BOXES, SCRAP LUMBER, ETC., ON THE CONSTRUCTION SITE SHALL BE CLEANED UP AND DISPOSED OF IN AN APPROVED MANNER ON A DAILY BASIS.		
1.12	INSPECTIONS AND CERTIFICATES OF COMPLIANCE	A. CONTRACTOR SHALL INFORM THE FIRE DEPARTMENT OF THE REQUIRED FINAL INSPECTION AND SCHEDULE SUCH INSPECTION 24 HRS. IN ADVANCE.	
	B. THE CONTRACTOR SHALL SIGN AND SUBMIT TO THE DEPARTMENT OF BUILDING AND SAFETY A "CERTIFICATE OF COMPLIANCE" STATING THAT THE WORK HAS BEEN PERFORMED AND MATERIALS INSTALLED ACCORDING TO THE PLANS AND SPECIFICATIONS AFFECTING NON-RESIDENTIAL ENERGY.		
1.13	MISCELLANEOUS	A. CONTRACTOR SHALL PROVIDE PEDESTRIAN PROTECTION AS REQUIRED IN C.B.C. & LOCAL AGENCIES	
	B. THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS FOR THE STORAGE AND HANDLING OF HAZARDOUS MATERIALS AS REQUIRED BY LOCAL ORDINANCE		
	C. CONTRACTOR SHALL INCLUDE COST FOR ALL REQUIRED STAKING.		
DIV 2 SITEWORK			
2.01	SEE CIVIL DRAWINGS FOR LOCATION OF BUILDING WORKING POINTS, ROUGH GRADING, ON-SITE UTILITIES, SITE IMPROVEMENTS, SITE RETAINING WALLS & SPECIFIC GENERAL NOTES. THE DRAWINGS AND CIVIL DRAWINGS SHALL OVERRIDE CONFLICTS WITH SITEWORK NOTE HEREIN. PRIOR TO SUBMISSION OF BIDS CONSTRUCTION, CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES. ARCHITECT SHALL BE GIVEN REASONABLE TIME TO CORRECT (& PROCESS IF REQUIRED) ANY DISCREPANCIES.		
2.02	EXCAVATION / GRADING REQUIREMENTS:	A. THE GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE PROJECT SHALL BE NOTIFIED BY THE CONTRACTOR AND OWNER THAT GRADING IS TO COMMENCE AND MAKE ALL NECESSARY ARRANGEMENT FOR FIELD INSPECTOR.	
	B. THE SOILS ENGINEER SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO COMMENCEMENT OF ANY EXCAVATION.		
	C. ALL BUILDING AREAS SHALL BE EXCAVATED AND RECOMPACTED IN ACCORDANCE WITH THE C.B.C.		
	D. SOIL EXCAVATION AND RECOMPACTION SHALL BE DONE UNDER THE SUPERVISION OF A REGISTERED SOILS ENGINEER, ALL DENSITIES, MOISTURE CONTENT AND TESTING SHALL BE APPROVED BY THE PROJECT SOILS ENGINEER PRIOR TO APPLYING THE FINISH SURFACES INDICATED ON THE DRAWINGS. ONE COPY OF ALL CERTIFICATION AND TESTS SHALL BE SENT TO THE ARCHITECT.		
	E. PRIOR TO EXCAVATION, A THOROUGH SEARCH SHALL BE MADE FOR UNDERGROUND UTILITIES AND STRUCTURES, ETC., WITHIN THE BUILDING SITE.		
	F. DAMAGE TO ANY ADJACENT PROPERTY, STREETS AND THE LIKE CAUSED BY OPERATIONS OF THIS SECTION SHALL BE RESTORED TO ORIGINAL CONDITION WITHOUT ADDITIONAL COST OR LIABILITY TO THE OWNER.		
2.04	SITE UTILITIES	A. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES SHOWN.	
	B. THE CONTRACTOR SHALL LOCATE ALL UTILITY CONNECTIONS WITHIN 5 FT. OF THE OF THE BUILDING LINE, AND PROTECT UNTIL ALL CONNECTIONS AND TESTING ARE COMPLETED.		
	C. ALL ON-SITE UTILITIES SHALL BE INSTALLED UNDERGROUND.		
2.05	SIDEWALKS	A. ALL CONCRETE SIDEWALKS SHALL SLOPE TO DRAIN AWAY FROM DOORS AND FACE OF BUILDING PER C.B.C.	
	B. ALL CONCRETE WALKS SHALL HAVE A MEDIUM BROOM FINISH U.O.N. ON THE DWGS.		
DIV 3 CONCRETE			
3.01	SEE STRUCTURAL DRAWINGS FOR STRUCTURAL CONCRETE REQUIREMENTS		
3.02	SEE FOUNDATION PLAN FOR SLAB DIMENSIONS, DEPRESSIONS.		
3.03	CONCRETE FINISHING	A. TROWEL AND RETROWEL SLAB FOR SMOOTH FINISH WITH NO TROWEL MARKS SHOWING WHEREVER CONCRETE FLOOR IS EXPOSED.	
	B. INTERIOR CONCRETE SLABS SHALL BE POURED LEVEL (UNLESS OTHERWISE INDICATED) - 1/8" TOLERANCE ON A 10'-0" EDGE IN ANY GIVEN DIRECTION.		
3.04	CRACK ISOLATION JOINT (COLD JOINT & OR SAW-CUT) SHALL BE DIRECTED BY THE STRUCTURAL ENGINEER. REFER TO STRUCTURAL DRAWINGS.		
DIV 6 WOOD + PLASTICS NOTES			
6.01	ALL WOOD ON DRAWINGS NOTED TO BE FIRE-TREATED SHALL BE FIRE RETARDANT WOOD, PER C.B.C. REQUIREMENTS FOR FIRE-TREATED WOOD.		
6.02	THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL BOLTS, NAILS, FRAMING CLIPS, WASHERS, PLATES, HANGERS, ETC., FOR A COMPLETE INSTALLATION WHETHER OR NOT SPECIFIED OR INDICATED ON THE DRAWINGS		
6.03	WOOD BLOCKING	A. ALL WOOD FIRE BLOCKING TO COMPLY WITH C.B.C. STANDARDS FOR FIRE BLOCKING.	
	B. PROVIDE WOOD BLOCKING FOR MILLWORK, WOOD WINDOW AND DOOR JAMBS		
6.04	SCAF: JOINT ALL EXPOSED CONTINUOUS WOOD TRIM MEMBERS 45 DEGREES. DO NOT BUTT JOINT. NAIL OR SCREW PER INDUSTRY STANDARDS.		
DIV 6 WOOD + PLASTICS NOTES			
6.05	WOOD STUDS SHALL BE 2x4 @ 16" O.C. UNLESS NOTED OTHERWISE.		
6.06	AS DEFINED WITHIN THE C.B.C., FIRESTOPPING SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL MAX 10'-0" O.C.) AND SHALL FORM AN EFFECTIVE BARRIER AND SHALL BE USED AS IDENTIFIED WITH IN THE C.B.C.		
6.07	DRAFTSTOPPING PER C.B.C.		
6.08	ALL INTERIOR STAIR STRINGERS SHALL HAVE 3/4" OFFSET SPACERS TO ALLOW FOR GYP BD. INCREASE SPACING IF SHEAR WALLS ARE SCHEDULED.		
6.09	ALL FRAMING CONDITIONS TO RECEIVE FINISH MATERIALS SHALL HAVE BACKER BOARDS INSTALLED AT ALL TRANSITION EDGES (E.G. STAIR STRINGER TO WALL, SOFFIT TO WALL, ETC....)		
6.10	PROVIDE 2 X 8 BLOCKING FOR WALL ACCESSORY BARS AND HANGERS.		
6.11	PRIOR TO ROUGH FRAMING, CONTRACTOR SHALL VERIFY THAT FINISH WILL ACCOMMODATE SELECTED BUILT-IN CABINETS.		
6.12	PRIOR TO INSTALLATION OF GWB, ALL STUDWALLS SHALL BE PLUMBED, FURRED, TRIMMED, AND STRAIGHTENED TO WITHIN 1/8" PER 10'-0".		
6.13	U.O.N. ALL SUBFLOORS SHALL BE 1 1/8" x 4' x 8' EXP 1 T&G PLY (48" O.C. SPAN RATING), GLUED & SCREWED (SIZE & SPACING PER STRUCTURAL). THIS NOTE SUPERCEDES CONFLICT WITHIN STRUCTURAL DOCUMENTS.		
DIV 7 THERMAL + MOISTURE NOTES			
7.01	WATERPROOFING	A. SUBCONTRACTOR TO WATERPROOF MASONRY/CONCRETE AND CONCRETE PLANTER WALLS, RETAINING WALLS	
7.02	BUILDING INSULATION	A. SEE WALL SECTIONS AND DETAILS & T-24 FOR BUILDING THERMAL INSULATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES.	
	B. ALL INSULATION USED IN THE BUILDING SHALL COMPLY WITH C.B.C. STANDARDS. INSULATION SHALL BE NON-COMBUSTABLE.		
	C. PROVIDE ACOUSTICAL INSULATION AT WALLS/FLOORS/CEILING OF LAUNDRY ROOM, POWDER ROOM, BEDROOMS AND ALL OTHER PRIVATE TO PUBLIC SPACES. ARCHITECT SHALL MAKE FINAL DETERMINATION. IF QUESTIONS PRIOR TO BIDDING, CONTRACTOR SHALL SUBMIT WRITTEN REQUEST TO ARCHITECT FOR CLARIFICATION OF SPECIFIC ROOM REQUIREMENTS.		
	E. INSULATE THE FOLLOWING: EXTERIOR WALLS, BETWEEN JAMBS AND FRAMING, CEILINGS WITH COLD AREAS ABOVE ATTIC ACCESS PANEL, KNEE WALLS ADJACENT TO HEATED SPACE, BETWEEN COMBINATION RAFTER AND CEILING JOIST.		
	F. WALLS TO BE A MINIMUM OF R-13 UNLESS OTHERWISE NOTED. (REFER TO TITLE 24 ENERGY CALCS)		
	G. CEILINGS AT SLOPED OR FLAT ROOFS TO BE A MINIMUM OF R-19 UNLESS OTHERWISE NOTED. (REFER TO TITLE 24 ENERGY CALCS)		
7.04	ROOFING	A. CONTRACTOR TO VERIFY THAT ROOF DRAINAGE SHOWN ON PLANS PROVIDE POSITIVE ROOF DRAINAGE AND THAT THEY CONFORM TO MINIMUM DRAINAGE STANDARDS PRIOR TO ROOFING.	
	B. ALL ROOFING SHALL COMPLY WITH CH 15, CURRENT EDITION OF C.B.C., MFRS. SPECS. AND REQUIREMENTS.		
	C. PROVIDE UNDERLAYMENT PER CH 15, CURRENT EDITION OF C.B.C., MFRS. SPECS. AND REQUIREMENTS.		
	D. ROOFING CONTRACTOR(S) SHALL PROVIDE A FULL NON-PRORATED 10 YEAR WARRANTY COVERING ALL DAMAGE &/OR DEFECTIVE PARTS & LABOR.		
	E. ROOFING CONTRACTOR/MFR SHALL PROVIDE MINIMUM 40 YEAR WARRANTY ON DIMENSIONAL COMP. SHINGLE ROOF.		
	F. ROOFING CONTRACTOR/MFR SHALL PROVIDE MIN 20 YEAR WARRANTY ON ALL LOW SLOPE ROOFING.		
	I. LOW SLOPE ROOFS SHALL BE MODIFIED BITUMEN		
7.05	WEATHERPROOFING	A. ALL EXTERIOR WALL OPENINGS, FLASHING, COUNTERFLASHING AND EXPANSION JOINTS SHALL BE CONSTRUCTED IN SUCH A MANNER TO MAKE THEM WEATHERPROOF. THE JUNCTION OF THE ROOF AND VERTICAL SURFACES SHALL BE FLASHED AND COUNTERFLASHED IN A MANNER TO MAKE THEM WATERPROOF.	
	B. ALL OPEN JOINTS IN THE BUILDING EXTERIOR AROUND CONDITIONED SPACES SHALL BE SEALED, CAULKED, GASKETED, OR WEATHER STRIPPED TO ELIMINATE AIR LEAKAGE.		
	C. PROVIDE A MINIMUM OF 15 LB. FELT AS MOISTURE PROTECTION BEHIND EXTERIOR FINISHES AND TRIM. FELTS TO BE NON-ORGANIC. (TWO LAYERS REQUIRED AT ALL SHEAR/SHEATHING LOCATIONS) REFER TO DETAILS FOR ADDITIONAL REQUIREMENTS.		
	D. ALL FLASHING, COUNTERFLASHING, AND COPING WHEN VISUALLY EXPOSED SHALL BE G.I. MIN THICKNESS PER C.B.C. ALL CONCEALED FLASHING, COUNTERFLASHING AND COPING WHEN OF METAL SHALL BE NO LESS THAN 24 GA GALV IRON (U.O.N.)		
	E. DISSIMILAR METALS SUBJECT TO GALVANIC ACTION SHALL BE SEPARATED AND PROTECTED.		
	F. FLASH AND COUNTERFLASH ALL ROOF TO WALL CONDITIONS. KERF CUT, FLASH AND CAULK WOOD BEAMS AND OUTLOOKERS PROJECTING THROUGH EXTERIOR WALLS OR ROOF SURFACES.		
	G. FLASH ALL EXTERIOR OPENINGS WITH APPROVED WATERPROOFING, WHICH CONFORMS TO STANDARD LOCAL AND STATE CODES.		
	H. PROVIDE FLASHING AND COUNTERFLASHING (WHEN REQUIRED) AND TERMINATE ROOFING TO INSURE NO LEAKAGE OCCURS AT ALL ROOF PENETRATIONS. VALLEY FLASHING SHALL BE PROVIDED OF NO LESS THAN NO. 24 GAUGE GALVANIZED IRON (U.O.N.) AND SHALL EXTEND AT LEAST 12 INCHES FROM THE CENTERLINE EACH WAY AND SHALL HAVE A SPLASH DIVERTED RIB NOT LESS THAN 1 INCH HIGH AT THE FLOW LINE FORMED AS PART OF THE FLASHING. SECTIONS OF FLASHING SHALL HAVE AN END LAP OF NOT LESS THAN FOUR INCHES.		
	I. AT HORIZONTAL & NON-VERTICAL CONDITIONS TO RECEIVE P.C. PLASTER, PREP WITH EXPANDED DIAMOND LATH AND 2 LAYER BITUTHENE (OR EQUAL) SELF ADHESIVE WATERPROOF MEMBRANE. (NOTE: HORIZONTAL SURFACE(S) SHALL MAINTAIN A MINIMUM 5% POSITIVE SLOPE AT THE FRAMING TO ENSURE PROPER DRAINAGE)		
	J. SHOWER PAN MEMBRANES SHALL BE "NOBLE-CHLORALOY 240" ((CPE) CHLORINATED POLYETHYLENE SHEET MEMBRANE)) OR EQUAL. INSTALL PER C.B.C. & MFR SPECIFICATIONS.		
	K. ALL FLASHING/COUNTERFLASHING SHALL COMPLY WITH S.M.A.C.H.A. STANDARDS.		
	L. SHOWER WALLS SHALL BE WATERPROOFED WITH "NOBLE-WALL SEAL" OR EQUAL. INSTALL PER C.B.C. & MFR SPECIFICATIONS.		
7.06	ATTIC VENTILATION: ENCLOSED ATTIC SPACES AND ENCLOSED ROOF RAFTERS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATED SPACE BY VENTILATING OPENINGS PROTECTED AGAINST ENTRANCE OF RAIN.		
7.07	NON-VERTICAL WALL WATER PROOFING	A. ALL NON-VERTICAL P.C. WALL SURFACES SHALL HAVE 3 LAYER P.C. PLASTER OVER EXPANDED DIAMOND LATH OVER MIN 2 LAYER BITUTHENE (OR APPROVED EQUAL).	
	B. NON-VERTICAL SIDING SURFACE SHALL HAVE BASE SELF-ADHESIVE WATERPROOFING * MFR (OR ARCHITECT) SPECIFIED VAOPR BARRIER.		
7.08	SEALANTS	A. ALL SEALANTS SHALL BE RATED MINIMUM 40 YEAR (FOR THE SPECIFIC APPLICATION THE SEALANT IS BEING APPLIED)	
DIV 8 DOORS + WINDOWS NOTES			
8.01	SEE DOOR SCHEDULE FOR HARDWARE GROUPS FOR EACH DOOR. SEE SPECIFICATIONS FOR HARDWARE SPECIFICATIONS OF HARDWARE GROUPS. IF NON SPECIFIED CONTRACTOR SHALL SUBMIT SPECS TO ARCHITECT FOR REVIEW & APPROVAL PRIOR TO SUBMITTAL OF BID DOCUMENTS		
8.02	DOORS AND FRAMES	A. ALL WOOD DOORS RATED AND NON RATED SHALL HAVE STRAIGHT GRAIN, FREE OF ALL DEFECTS OR KNOTS AND SHALL BE BACK PRIMED AND PAINTED, STAINED, & FINISHED AS SCHEDULED.	
	B. EXTERIOR DOORS STOPS OF IN-SWINGING DOORS SHALL BE ONE-PIECE CONSTRUCTION WITH THE JAMB STOP BY RABBETED TO THE JAMB.		
8.03	HARDWARE	A. ALL DOOR HARDWARE, SPECIALTY HARDWARE, FINISH AND SMOKE RATED ASSEMBLIES SHALL BE FIRE MARSHALL APPROVED AS REQUIRED BY GOVERNING AGENCY CODES.	
	B. ALL NON ACCESSIBLE DOOR THRESHOLDS (WHERE OCCURS WITHOUT A STEP) SHALL NOT EXCEED HEIGHT PER C.B.C. FROM TOP OF THRESHOLD TO FLOOR FINISH - BOTH SIDES (U.O.N.).		
	C. ALL JAMBS SHALL BE SOLID SHIMED FOR SUPPORT AT HINGES & STRIKES.		
	D. FOR DOOR HARDWARE GROUPS, REFER TO SCHEDULE.		
8.04	SWINGING EXTERIOR GLASS DOORS, METAL OR WOOD DOORS WITH GLASS PANELS, SOLID WOOD OR METAL DOORS SHALL BE CONSTRUCTED OR PROTECTED AS FOLLOWS:	A. ANY GLAZING UTILIZED WITHIN 24" OF ANY DOOR JAMB SHALL BE CONSTRUCTED OR PROTECTED AS FOLLOWS: FULLY TEMPERED GLASS	
8.05	AIR INFILTRATION AT WINDOWS AND DOORS	A. FOR OPENABLE EXTERIOR DOORS (REQUIRED STEEL FIRE-RATED DOORS ARE EXEMPT FROM THESE REQUIREMENTS), AIR INFILTRATION SHALL BE MITIGATED BY FOLLOWING THESE CONSTRUCTION REQUIREMENTS:	
	1. DOOR HEADS, SILLS, AND JAMBS SHALL HAVE CONTINUOUS SEALS AS REQUIRED TO ELIMINATE AIR INFILTRATION.		
	2. A CONTINUOUS ANGLE, SEALED GASKET OR WEATHERSTRIPPING SHALL BE USED WITH DOORS REQUIRING VERTICAL TRACTS OR GUIDES (E.G. ROLLING INDUSTRIAL DOORS).		
	3. A CONTINUOUS SEAL OR Baffle SHALL BE INSTALLED AT EACH DOOR.		
	4. ALL SWING DOORS AND WINDOWS OPENING TO THE EXTERIOR OR TO UNCONDITIONED AREAS SHALL BE FULLY WEATHERSTRIPPED, GASKETED, OR OTHERWISE TREATED TO LIMIT AIR INFILTRATION.		
8.06	WINDOWS	A. ALL MOVABLE WINDOWS SHALL BE EQUIPPED WITH A LOCKING DEVICE AND SHALL BE CONSTRUCTED IN A FASHION TO RESTRICT THEM FROM BEING LIFTED OUT OF ITS TRACK WHEN IN CLOSED POSITION.	
	B. ALL MOVABLE WINDOWS SHALL BE FITTED W/ REMOVABLE SCREEN ASSEMBLIES.		
8.07	GLAZING	A. ALL GLASS AND GLAZING SHALL CONFORM TO CHAPTER 24 & HIGH FIRE REQUIREMENTS OF THE C.B.C. & LOCAL CODES.	
	B. IN LOCATIONS WHICH MAY BE SUBJECT TO HUMAN IMPACT, SUCH AS FRAMELESS GLASS DOORS, GLASS ENTRANCE/EXIT DOORS, SHOWER DOORS, TUB ENCLOSURES, AND STORM DOORS, GLAZING SHALL MEET THE REQUIREMENTS SET FORTH IN THE CALIFORNIA BUILDING CODE.		
	C. ALL GLASS DOORS AND FIXED GLASS LESS THAN 18" ABOVE THE FLOOR LINE SHALL BE APPROVED SAFETY OR TEMPERED GLASS.		
	D. ALL EXTERIOR GLAZING WITHIN "HIGH FIRE DESIGNATED AREAS SHALL BE DUAL-GLAZED, TEMPERED ON EXTERIOR SIDE.		
DIV 9 FINISHES NOTES			
	SEE INTERIOR ELEVATIONS, REFLECTED CEILING PLANS, ROOM FINISH GROUPS AND ROOM FINISH SCHEDULE FOR WALL, CEILING AND FLOOR FINISHES.		
9.01	EXPOSED EQUIPMENT	A. THERE SHALL BE NO EXPOSED PIPE, CONDUIT, DUCT, VENT, AND THE LIKE ALL UCH LINES SHALL BE CONCEALED OR FURRED AND FINISHED, UNLESS NOTED AS EXPOSED CONSTRUCTION ON DRAWINGS.	
	B. ALL EXPOSED EXTERIOR METAL FITTINGS, FLASHING, CONDUIT, ETC. SHALL BE PAINTED TO MATCH ADJACENT SURFACES, UNLESS IT IS SPECIFIED AS COPPER.		
9.02	INTERIOR WALLS	A. OFFSET STUDS WHERE REQUIRED, SO THAT FINISH WALL SURFACE WILL BE FLUSH.	
	B. ALL GYPSUM WALL BOARD SHALL BE 5/8" THICKNESS & CONFORM TO CHAPTER 25 OF THE CBC		
	C. ALL GYP BOARD ON WALLS WITH IN BATHROOMS & LAUNDRY AREAS SHALL BE "GREEN BOARD"		
	D. AT ANY CONDITIONS WHERE GYP BOARD IS IN CONTACT WITH CONCRETE SHALL BE "GREEN BOARD"		
	E. CONTRACTOR SHALL PROVIDE FULL-SCALE MOCK-UPS (MIN. 3'x3') IF FINISH FOR APPROVAL BY OWNER & REVIEWED BY ARCHITECT.		
9.03	CERAMIC TILE / STONE TILE/ FINISHED CONCRETE	A. ALL TILE INSTALLATION SHALL BE IN ACCORDANCE WITH ACCEPTED CURRENT INDUSTRY STANDARD WITH THE BEST QUALITY IN CRAFTSMANSHIP	
	B. SEE INTERIOR DESIGN DRAWINGS FOR TILE LAYOUT OF WALLS AND FLOOR PATTERNS		
	C. WHERE FLOOR DRAINS OR FLOOR SINKS OCCUR, ALL FINISH FLOORS SHALL SLOPE TO DRAIN. TILE OR FINISH MATERIAL SHALL NON-SLIP.		
9.04	INTERIOR FINISH FLAME RETARDANT REQUIREMENTS	A. INTERIOR FINISHES AND FLAMEPROOFING MUST CONFORM TO THE REQUIREMENTS OF C.B.C..	



DIV 9 FINISHES NOTES (continued)

- D. THE SIZE AND SPACING OF FASTENERS SHALL COMPLY WITH THE CURRENT EDITIONS OF THE U.B.C., STATE AND LOCAL CODES. FASTENERS SHALL BE SPACED NOT LESS THAN 3/8" INCHES FROM EDGES AND ENDS OF GYPSUM WALLBOARD.
- FASTENERS SHALL BE APPLIED IN SUCH A MANNER AS NOT TO FRACTURE THE FACE OF PAPER WITH THE FASTENER HEAD.
- F. GYPSUM WALL BOARD SHALL BE 5/8" TYPE "X"
- F. AT BATHROOM & LAUNDRY AREA WALLS & OTHER LOCATIONS IDENTIFIED ON PLANS USE 5/8" GYPSUM GREEN BOARD.
- H. GYPSUM BOARD THAT IS POTENTIALLY IN CONTACT WITH CONCRETE SHALL BE SEPARATED BY AN APPROVED VAPOR BARRIER
- WATER-RESISTANT GYP BACKING BOARD SHALL NOT BE USED IN THE FOLLOWING LOCATIONS:
- OVER A VAPOR BARRIER IN SHOWER OR BATH TUB COMPARTMENTS
  - WHERE THERE SHALL BE DIRECT EXPOSURE TO WATER OR IN AREAS SUBJECT TO HIGH HUMIDITY
  - ON CEILINGS WHERE FRAME SPACING EXCEEDS 12" O.C. FOR 1/2" GWB OR 16" O.C. FOR 5/8" GWB (C.B.C. 2509.3)
- 9.10 EXTERIOR PLASTER
- A. ALL EXTERIOR MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT EDITIONS OF THE U.B.C., STATE AND LOCAL CODES.
- B. MATERIALS
- PORTLAND CEMENT PLASTER
    - BASE COAT CEMENTS: PORTLAND CEMENT, ASTM C150, TYPE I OR II, LOW ALKALI. "LOW ALKALI" SHALL BE PRINTED ON THE BAG.
    - FACTORY FINISH COAT: MANUFACTURER'S STANDARD PRODUCT REQUIRING ADDITION OF WATER ONLY.
    - SAND AGGREGATE FOR BASE COATS: ASTM C897.
  - VERTICAL LATH - LATH ON VERTICAL SURFACES SHALL BE FACTORY ASSEMBLED WIRE MESH WITH MINIMUM 2-LAYER GRADE "D" WORK SHALL INSURE PROPER WATERPROOFING. WIRE OVERLAPS SHALL BE PER C.B.C. & MFR SPECS. STAGGER VERTICAL LAPS. (REFER TO DETAILS FOR ANY ADDITIONAL REQUIREMENTS).
  - NON-VERTICAL LATH - LATH AT NON-VERTICAL CONDITIONS SHALL BE DIAMOND MESH EXPANDED STEEL LATH OVER MINIMUM 2-LAYER SELF-ADHESIVE FLASHING..
- C. EXECUTION
- COMPLY WITH INSTRUCTIONS AND RECOMMENDATIONS OF MANUFACTURER.
  - PLASTER ON LATH SHALL BE THREE COATS, NOT LESS THAN 7/8" THICK. LOCATE SCORE LINES, EXPANSION JOINTS AND SCREEDS AS RECOMMENDED BY THE MANUFACTURER & TRADE ORGANIZATION. LAPS OR OTHER UNSIGHTLY DIFFERENCES IN FINISH COAT ARE NOT ACCEPTABLE AND MUST BE REFINISHED. PLASTER STOPS SHALL BE PLACED WHERE PLASTER MEETS A SURFACE WHICH IS NOT PLASTERED. PLACE CORNER BEADS LEVEL, PLUMB, FULL HEIGHT, AND/OR LENGTH ACCURATELY TO FINISH PLASTER LINES. SECURE AGAINST SHIFTING. PLACE VENTS WHERE REQUIRED BY THE C.B.C. OVER PLYWOOD SHEAR PANELS PROVIDE (2) LAYERS OF GRADE "D" FELT. (ADDITIONAL REQUIREMENTS AS DETAILED).
  - WEEP SCREEDS SHALL BE A MINIMUM OF 26 GAUGE CORROSION PROOF METAL WITH MINIMUM VERTICAL ATTACHMENT OF 3 1/2" AT OR BELOW FOUNDATION PLATE WALL. SCREED SHALL BE PLACED ABOVE GRADE 4" MINIMUM AND SHALL ALLOW TRAPPED WATER TO DRAIN. EXTERIOR BUILDING PAPER AND LATH SHALL COVER AND TERMINATE ON THE ATTACHED FLANGE.

PLASTER FINISH TO BE TROWEL FINISH AS APPROVED BY OWNER
  - SCREED SHALL BE MINIMUM 2" ABOVE APPROVED FINISH (
  -
- DIV 10 SPECIALITIES NOTES
- 10.01 TOILET ACCESSORIES
- A. SUBCONTRACTOR SHALL INSTALL MINIMUM 2x8 SOLID BLOCKING AS REQUIRED FOR ALL ACCESSORIES.
- B. ACCESSORIES SUCH AS GRAB BARS, TOWEL BARS, PAPER DISPENSERS AND SOAP DISHES, ETC., PROVIDED ON OR WITHIN WALLS, SHALL BE INSTALLED AND SEALED TO PROTECT STRUCTURAL ELEMENTS FROM MOISTURE.
- 10.02 FLOOD PANS
- A. WASHING MACHINE SURROUND SHALL BE "FLOODSAVER" MODEL WMP27 WALL UNIT, WMPB27 BASE, WMPBD27 BASE OR EQUAL, 2-PIECE SYSTEM TO CONSIST OF FORMED HIGH DENSITY POLYETHYLENE BASE & WALL PANEL WITH A HUD/FHA FLAME SPREAD 100 & SMOKE DENSITY 450 PER ASTM STEINER TUNNEL TEST METHOD. BASE SHALL FORM A 3" DEEP CONTAINER PAN & SHALL ACCOMMODATE A STANDARD SHOWER TYPE DRAIN WALL PANEL SHALL PROVIDE MINIMUM 3" SPRAY BARRIER ON SIDES & TOP. WMPBD27 DRAINLESS BASE - USED IN APPLICATION WHERE A FLOOR JOIST OR OTHER OBSTRUCTION REQUIRES FLEXIBILITY IN DRAIN PLACEMENT. DRAIN TYPE SHALL BE CONSISTENT WITH LOCAL CODES.
- B. DISHWASHER WATER CONTAINMENT SYSTEM SHALL BE "FLOODSAVER SLIDE-N-FOLD PAN" OR EQUIVALENT. 1-PIECE SYSTEM TO CONSIST OF FORMED HIGH DENSITY POLYPROPYLENE UNIT SHALL FORM A MINIMUM 2.5" DEEP CONTAINMENT PAN.
- 10.03 CLOSETS
- A. PROVIDE POLE & SHELF AT ALL CLOSETS
- DIV 11 EQUIPMENT
- 11.01 DRYER VENTS TO OUTSIDE AIR PER MANUFACTURER'S APPROVED SPECIFICATION AND NOTES.
- 11.02 SUBCONTRACTOR SHALL SUPPLY AND INSTALL APPLIANCES: DISHWASHER, RANGE, OVEN, GARBAGE DISPOSAL, ETC.
- 11.03 SUBCONTRACTOR SHALL DESIGN, SUPPLY AND INSTALL F.A.U. (HEATING AND COOLING)
- DIV 15 MECHANICAL/PLUMBING NOTES
- 15.01 MECHANICAL DRAWINGS FOR MECHANICAL, PLUMBING AND FIRE PROTECTION SHALL BE DESIGN/BUILD (OWNER TO APPROVE AND ARCHITECT TO REVIEW)
- 15.02 ACCESS PANELS
- A. SUBCONTRACTOR SHALL PROVIDE ACCESS PANELS AS REQUIRED BY PLUMBING, AIR CONDITIONING AND OTHER INSTALLERS AS REQUIRED BY CODE.
- B. CONTRACTOR SHALL SUBMIT LOCATIONS OF ALL ACCESS PANELS TO ARCHITECT FOR REVIEW - PRIOR TO INSTALLATION.
- C. NO ACCESS PANELS SHALL BE LOCATED IN PUBLIC AREA WALLS OR CEILINGS.
- 15.03 NO STRUCTURAL MEMBER SHALL BE CUT FOR PIPES, DUCTS, ETC., UNLESS SPECIFICALLY DETAILED.
- 15.04 THE GENERAL CONTRACTOR SHALL COORDINATE AND VERIFY WITH THE PLUMBING, MECHANICAL AND ELECTRICAL CONTRACTORS THE SIZE AND LOCATION OF ALL PIPING, DUCTWORK, TRENCHES, SLEEVES, SPECIAL BOLTING FOR EQUIPMENT CONDUITS, ETC. THROUGH AND UNDER CONCRETE SLABS PRIOR TO POURING OF FOOTING AND SLABS. REFER TO MECHANICAL AND PLUMBING FOR ADDITIONAL NOTES AND REQUIREMENTS.
- 15.05 TOP OF ROOF MECHANICAL EQUIPMENT SHALL NOT BE PROJECTED ABOVE BUILDING PARAPET AND BE LOCATED AWAY FROM PARAPETS. IF HIGHER, EQUIPMENT SCREENS SHALL BE PROVIDED AS APPROVED BY PLANNING DEPARTMENT.

DIV 15 MECHANICAL/PLUMBING NOTES (continued)

- 15.06 FIRE PROTECTION SYSTEMS
- A. FIRE PROTECTION SHALL BE PER C.B.C., C.F.C. & LOCAL CODES
- B. ALL PLUMBING AND HEATING WORK SHALL CONFORM TO GOVERNING LOCAL CODES.
- C. SUBCONTRACTOR SHALL PROVIDE AND INSTALL ADEQUATE VENTS FOR ALL GAS APPLIANCES.
- D. SUBCONTRACTOR SHALL PROVIDE AND INSTALL GAS SHUT-OFF VALVE CONSPICUOUSLY MARKED OUTSIDE OF BUILDING (TITLE 19, CHAPT. 6 THRU 9, U.B.C.).
- 15.07 PLUMBING
- A. MAXIMUM FLOW OF ALL NEW LAVATORY FAUCETS SHALL BE CERTIFIED IN ACCORDANCE WITH TITLE 24
- B. SUBCONTRACTOR SHALL INSULATE ALL PLUMBING PIPING IN ATTICS. CANOPIES, AND WALLS TO DETER FREEZING OF PIPES.
- C. SUBCONTRACTOR SHALL SUPPLY AND INSTALL WATER HEATERS WITH NON-RIGID WATER CONNECTIONS SHALL BE STRAPPED FOR LATERAL SUPPORT (PER GOVERNING CODES)
- D. WATER CONSERVATION FEATURES (I.E., MAXIMUM GALLON USAGE) SHALL BE PER C.P.C. SECTION #402.3, 402.7, 402.8
- E. HOSE BIBBS & FUTURE UNIT IRRIGATION SHALL BE SPLIT FROM INLET MAIN PRIOR TO WATER SOFTENER. INSTALL BACK FLOW PREVENTER(S) AS REQUIRED BY C.P.C. & LOCAL CODES.
- F. WATER HEATER SHALL BE SECURED AWAY FROM WALL PER REQUIRED CODES
- G. AT FIBERGLASS TUB SHOWER ASSEMBLIES, PROVIDE FURRING STRIPS AT WALLS TO MATCH NAILING FLANGE PLANE. UNIT SHALL BE PLACED LEVEL & BOTTOM PAN SHALL BE SUPPORTED PER MANUFACTURER SPECS.
- H. PROVIDE RECESSED BOX & PLUMBING FOR REFRIGERATED WATER SUPPLY.
- 15.08 VENTILATION & SANITATION SHALL CONFORM WITH CURRENT EDITION OF C.B.C., C.E.C. & TITLE 24.
- 15.09 PLUMBING AT RATED ASSEMBLIES
- A. WALLS CONTAINING GAS VENTS OR NON COMBUSTIBLE PIPING THAT PASS THROUGH THREE FLOORS OR LESS NEED NOT PROVIDE THE FIRE-RESISTANCE RATING SPECIFIED IN C.B.C. FOR "SHAFT ENCLOSURES" PROVIDED ANNULAR SPACE AROUND THE VENTS OR PIPING IS FILLED AT EACH FLOOR OR CEILING WITH EQUIPMENT RATED NONCOMBUSTIBLE MATERIALS.
- 15.09 HEATING, VENTILATING, AND AIR CONDITIONING
- A. ALL VERTICAL SHAFTS SHALL HAVE INSTALLED OVER EACH SIDE OF FRAMING 5/8" TYPE "X" GYPSUM BOARD FOR ALL OPENINGS WITH ONE (1) HOUR ASSEMBLIES.
- B. MECHANICAL CONTRACTOR SHALL BE REQUIRED TO MEET THE STATE OF CALIFORNIA ENERGY REGULATIONS FOR ALL MECHANICAL EQUIPMENT. OWNER HAS COMPLIED WITH BUILDING ENVELOPE REQUIREMENTS, PER U.B.C.
- HEATING, VENTILATING, AIR CONDITIONING SYSTEM DESIGN AND INSTALLATION IS PART OF THIS PERMIT.
  - THE MECHANICAL CONTRACTOR SHALL PROVIDE TO THE BUILDING DEPT. COMPLETE DESIGN CALCULATIONS, INCLUDING TITLE 24 ENERGY CALCULATIONS TO THE SATISFACTION OF THE BUILDING DEPARTMENT.
- ALL WORK REQUIRED TO COMPLETE THE ABOVE SHALL BE A PART OF THIS CONTRACT.
- C. PROVIDE AIR CHANGES FOR TOILET ROOMS, ETC. TO COMPLY WITH APPLICABLE BUILDING MECHANICAL CODES AND REGULATIONS.
- D. THE MECHANICAL DESIGN/BUILD CONTRACTOR SHALL PROVIDE, IN ACCORDANCE WITH THE SPECIFICATIONS, THE REQUIRED NUMBER OF SETS OF MECHANICAL PLANS FOR REVIEWING SHOWING:
- DUCT LAYOUT.
  - LOCATION, MANUFACTURER, MODEL NUMBER AND CAPACITY OF THE HVAC SYSTEM COMPONENTS AS WELL AS THERMOSTAT LOCATIONS.
  - FOR EACH HVAC UNIT INDICATED ON THE PLANS, ITS EER, COP, AND/OR COMBUSTION EFFICIENCY.
- E. EVERY SPACE ACCOMMODATING HUMAN ACTIVITIES SHALL HAVE THE CLIMATE TEMPERATURE CONTROLLED IN ACCORDANCE WITH C.M.C. & C.B.C.
- F. ALL MECHANICAL AND GRAVITY VENTILATION SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH C.M.C. & C.B.C.
- G. ALL DUCT CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH C.M.C.
- H. THE MINIMUM INSULATION OF DUCT AND PLENUM (SUPPLY AND RETURN) SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH C.M.C.
- I. REQUIRED MAINTENANCE OF ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED TO THE OWNER THROUGH THE CONTRACTOR.
- J. DRYER VENTING SHALL BE MIN. 26 GA. SHEET METAL DUCTING, 4" MIN DIAMETER. PRIOR TO INSTALLATION, CONTRACTOR SHALL VERIFY THAT SPECIFIC VENT LENGTH CONDITIONS AT EACH UNIT ARE APPROVED BY DRYER MFR(S), ALTERNATIVE DESIGNS SHALL BE APPROVED BY DRYER MFR(S) & BUILDING OFFICIAL PRIOR TO INSTALLATION. DRYER VENTS SHALL BE PROVIDED WITH BACKDRAFT STOP.
- PROVIDE COMBUSTION AIR FOR ANY GAS FIRED EQUIPMENT PER MFR SPECS. C.B.C. AND C.M.C.
- L. MOTORIZED MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH NOISE ISOLATION CONNECTIONS.
- M. PRIOR TO FRAMING, MECHANICAL & PLUMBING CONTRACTOR SHALL PROVIDE "SCHEMATIC" INTEGRATION DRAWINGS WITH PROPOSED LAYOUT. ARCHITECT SHALL HAVE THE OPPORTUNITY TO REVIEW DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ANY CHANGES (AT NO EXTRA CHARGE) TO ENSURE PROPER INTEGRATION WITH THE INTENT OF THE DRAWINGS.

DIV 16 ELECTRICAL NOTES

- 16.01 ELECTRICAL
- A. ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF ELECTRICAL JUNCTION BOXES, ACCESS PANELS, AND SIGNAGE RACEWAYS WITH SIGN CONTRACTOR.
- B. ELECTRICAL CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS, SERVICE REQUIREMENTS, AND EXACT LOCATIONS OF SERVICE FACILITIES.
- C. ELECTRICAL CONTRACTOR SHALL CHECK WITH OTHER TRADES FOR LOCATION OF EQUIPMENT WHICH REQUIRES ANY HOOK-UP, DISCONNECT SWITCHES, RELAYS, ETC. PRIOR TO ANY START OF WORK.
- D. THE ELECTRICAL CONTRACTOR SHALL VERIFY WITH MECHANICAL DRAWINGS FOR CONTROL WIRING DIAGRAMS, EXACT LOCATIONS AND SIZE OF EQUIPMENT.
- E. LOCATIONS SHOWN ON ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ELECTRICAL DRAWINGS.
- F. ALL ELECTRICAL INSTALLATIONS SHALL COMPLY WITH GOVERNING APPROVED EDITIONS OF THE LOCAL ELECTRICAL CODES.
- G. LIGHT SHALL CONFORM TO CURRENT EDITION, OF C.B.C., C.E.C. & TITLE 24.
- H. FIXED WINDOWS SHALL BE SEALED TO LIMIT AIR INFILTRATION.
- I. MINIMUM LIGHTING LEVEL WATTAGE AND REDUCTION CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH TITLE 20-1542.
- J. FIXTURES SHALL BE RATED FOR THE SPECIFIC LOCATION INSTALLED.
- K. ALL EQUIPMENT INSTALLED OUTDOORS AND EXPOSED TO THE WEATHER SHALL BE WEATHERPROOF AND G.F.C.I.
- L. RECEPTACLES IN THE KITCHEN AND BATHROOM SHALL BE INSTALLED ABOVE THE WORK TOP UNLESS OTHERWISE NOTED ON THE ELECTRICAL PLANS.
- M. RECEPTACLES SHALL BE INSTALLED VERTICALLY AT 12" PLUS ABOVE THE FLOOR, AT A MAXIMUM DISTANCE NOTED IN THE C.B.C. & C.E.C. UNLESS INDICATED OTHERWISE.
- N. WALL SWITCHES SHALL BE 42" ABOVE THE FINISH FLOOR.
- O. RECEPTACLES IN KITCHENS AND BATHROOMS, WITHIN 6'-0" OF ANY SINKS, TUBS, AND/OR SHOWERS SHALL BE ON G.F.C.I. CIRCUITS.
- P. RECEPTACLES INSTALLED IN ALL AREAS SHALL BE PROVIDED WITH ARC FAULT CIRCUIT INTERRUPTERS EXCEPT BATHROOMS AND GARAGES
- Q. ELECTRICAL DRAWINGS SHALL BE DESIGN/BUILD (OWNER TO APPROVE & ARCHITECT TO REVIEW)
- R. CABLE/PHONE/TV/INTERNET SHALL BE WIRE TO "HOME RUN" TO A COMMON AREA CLOSET (OWNER SHALL APPROVE LOCATION PRIOR TO INSTALLATION)

ABBREVIATIONS:

ABV	ABOVE	GA	GAGE, GAUGE
AFB	ABOVE FINISH FLOOR	GI	GALVANIZED IRON
ACC	ACCESS	GC	GENERAL CONTRACT
AP	ACCESS PANEL	GL	GLASS, GLAZING
AC	ACoustical	GLB	GLASS BLOCK
ADD	ADDENDUM	GB	GRAB BAR
ADJ	ADJACENT	GR	GRADE, GRADING
AGG	AGGREGATE	GW	GYPSUM DRY WALL
A/C	AIR CONDITIONING	GPFL	GYPSUM PLASTER
AL	ALTERNATE	HWD	HARDWOOD
ALT	ALUMINUM	HDR	HEADER
AB	ANCHOR BOLT	HVAC	HEATING/VENTILATION/
APX	APPROXIMATE		AIR CONDITIONING
ARCH	ARCHITECT (URAL)	HT	HEIGHT
AC	ASPHALT / CONCRETE	HM	HOLLOW METAL
BEG	BEARING	HOB	HORIZONTAL
BM	BENCH MARK	HB	HOSE BIBB
BEL	BELOW	ID	INSIDE DIAMETER
BLK	BLOCK	INT	INTERIOR
BLKG	BLOCKING	INV	INVERT
BO	BOARD	LAM	LAMINATE (D)
BOT	BOTTOM	LAV	LAVATORY
BRZ	BRONZE	LH	LEFT HAND
BLDG	BUILDING	LT	LIGHT
BUR	BUILT UP ROOF	LL	LIVE LOAD
CAB	CABINET	MB	MACHINE BOLT
CSMT	CASEMENT	MI	MALLEABLE IRON
CI	CAST IRON	MH	MANHOLE
CB	CATCH BASIN	MFR	MANUFACTURE (ER)
CLG	CEILING	MAB	MARBLE
CFCI	CONTRACTOR FURNISH, CONTRACTOR INSTALL	MAB	MASONRY
	CHAMFER	MAX	MAXIMUM
CIR	CIRCLE	MC	MEDICINE CABINET
CLR	CLEAR (ANCE)	MED	MEDIUM
COL	COLUMN	MEM	MEMBRANE
CONC	CONCRETE	MIR	MIRROR
CMU	CONCRETE MASONRY UNIT	MISC	MISCELLANEOUS
	CONSTRUCTION	MOD	MODULAR
CONST	CEILING JOIST	MLD	MOLDING, MOULDING
CJ	CONTROL JOINT	MULL	MULLION
CJT	COUNTER FLASHING	NAT	NATURAL
CFL	COUNTERSINK	N	NORTH
CS	CUBIC YARD	NIC	NOT IN CONTRACT
CY	DAYTIME PROOFING	NTS	NOT TO SCALE
CP	DEAD LOAD	OC	ON CENTER (S)
DL	DEMOLISH, DEMOLITION	OFCI	OWNER FURNISH, CONTRACTOR INSTALL
DEM	DEMOUNTABLE	OFDI	OWNER FURNISH, OWNER INSTALL
DMT	DEPRESSED		
DEP	DETAIL	PED	PEDestal
DTL	DIAGONAL	PER	PERIMETER
DIAG	DIAMETER	PLAM	PLASTIC LAMINATE
DIA	DIMENSION	PWD / PLY	PLYWOOD
DIM	DIVISION	PVC	POLYVINYL CHLORIDE
DIV	DOOR	PL	PROPERTY LINE
DR	DOUBLE HUNG	QT	QUARRY TILE
DH	DOWNSPOUT	RAD	RADIUS
DS	DRAIN TILE	RUC	RAINWATER CONDUCTOR
DT	DRAWING	REG	REGISTER
DWG	DUMBWAITER	R	ROOF DRAIN
DW	ELEVATION	RD	ROOM
EL	EXTERIOR	RY	ROUGH OPENING
EXT	EXTRA STRONG	RO	RUBBER BASE
EXS	FACE BRICK	RB	SHEATHING
FB	FACE OF CONCRETE	SHH	SHEET
FOC	FACE OF FINISH	SHT	SIMILAR
FOF	FACE OF MASONRY	SHM	SOUTH
FOM	FACE OF STUDS	S	SPECIFICATION (S)
FOS	FINISH (ED)	SG	SQUARE
FIN	FINISH FLOOR	SS	STAINLESS STEEL
FF	FIRE EXTINGUISHER	STD	STANDARD
FE	FIRE EXTINGUISHER CABINET	ST	STEEL
FEC	FIRE PLACE	STO	STORAGE
FP	FLASHING	SD	STORM DRAIN
FL	FLOOR (ING)	STR	STRUCTURAL
FLR	FLOOR CLEANEST	SYG	SYSTEM
FLOO	FLOOR JOIST	TEL	TELEPHONE
FJ	FLOOR PLATE	TV	TELEVISION
FD	FLUORESCENT	TAG	TONGUE AND GROOVE
FLUOR	FOOTING	TOB	TOP OF SLAB
FTG	FOUNDATION	TOW	TOP OF WALL
FND	FURRED (ING)	TB	TOWEL BAR
FUR		T	TREAD
		TYP	TYPICAL
		VG	VERTICAL GRAIN
		VCT	VINYL COMPOSITION TILE
		WBC	WAINSCOT
		WC	WATER CLOSET
		WP	WATERPROOFING
		W	WEST
		WIN	WINDOW
		WO	WITHOUT
		WD	WOOD
		WI	WROUGHT IRON



CONST NOTES

260  
N. ALVARADO  
AVENUE

OJAI EL ROBLAR LLC

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1.23.23

T-2



(N) ADU FLR PLAN  
ROOF PLAN  
REF FOUND PLN  
REF FRAM'G PLN

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N. ALVARADO  
AVENUE

OJAI EL ROBLAR LLC  
[REDACTED]

OJAI,  
CALIFORNIA

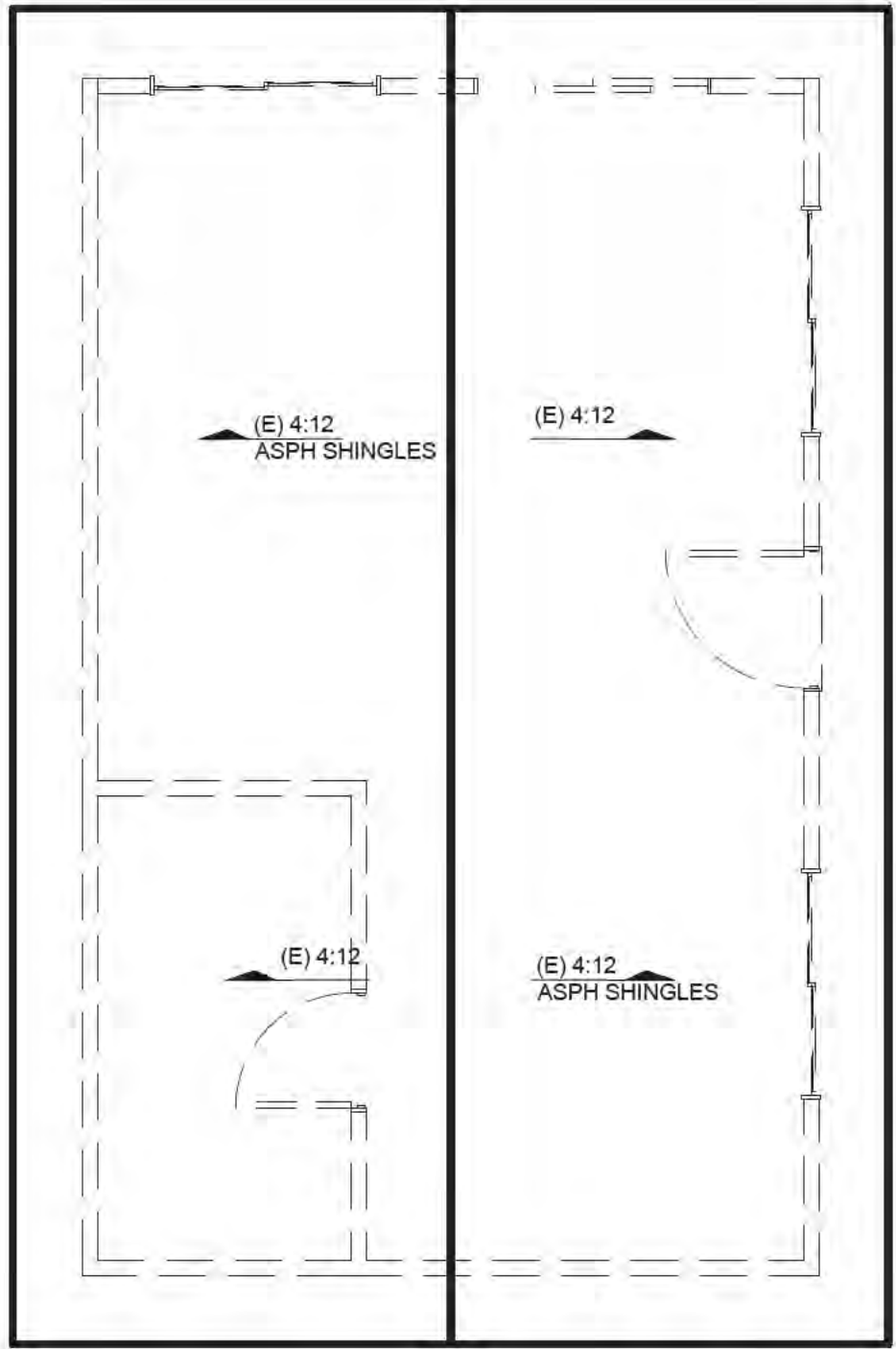
Ray Ames - Designer

*Ray Ames*

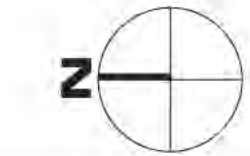
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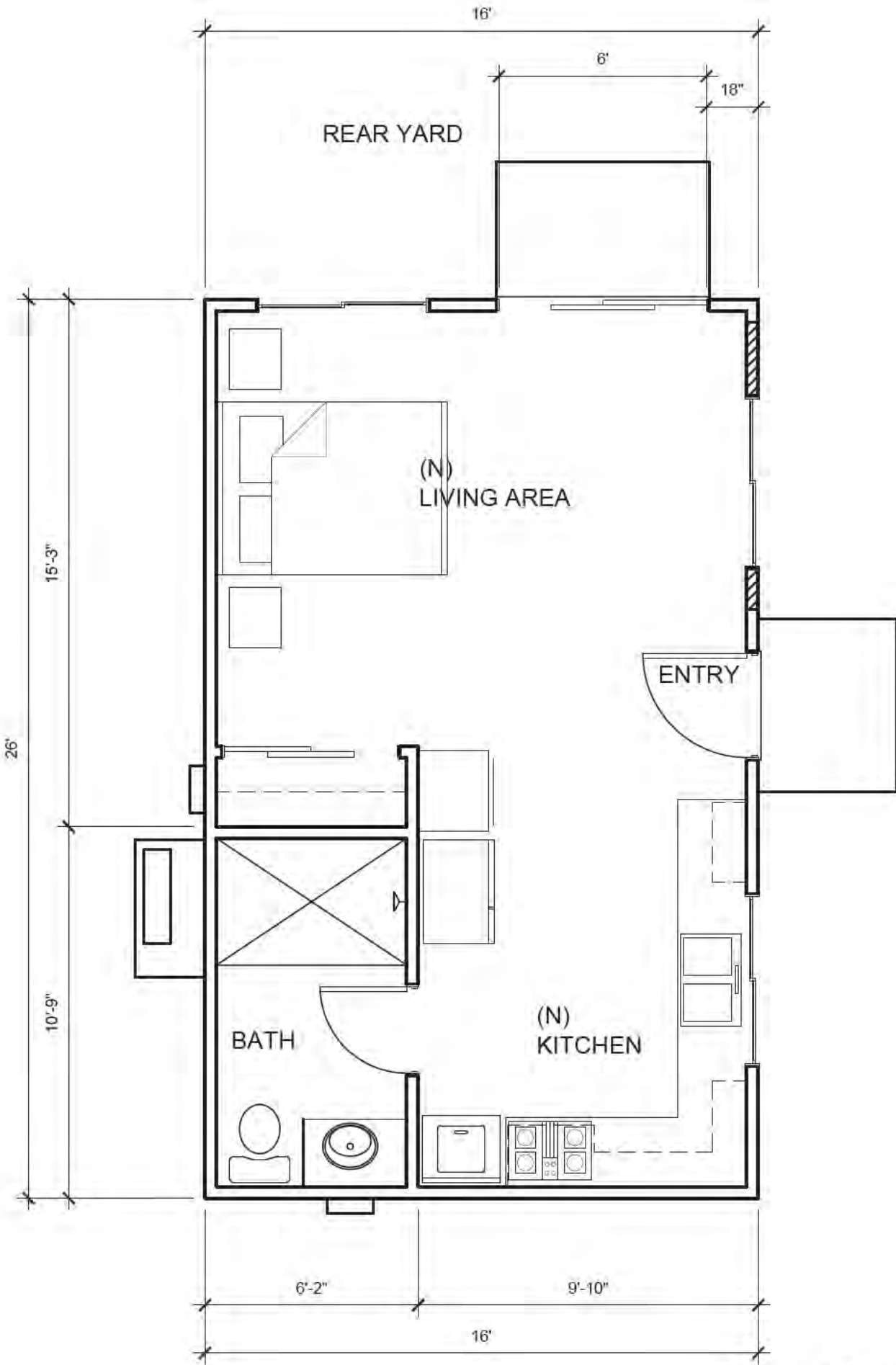
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(E) ROOF PLAN



1/4" = 1'-0"



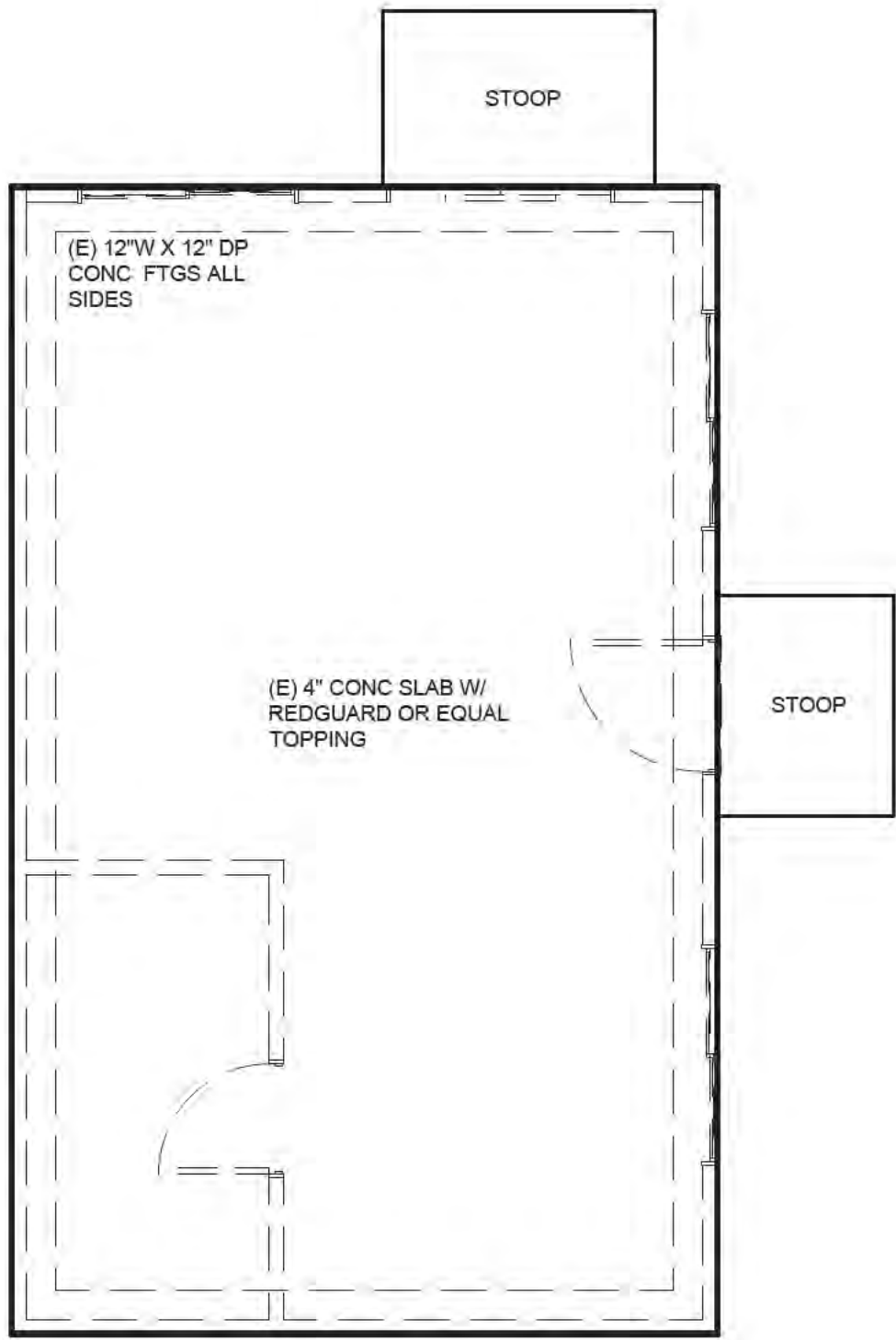
(E) / (N) ADU FLOOR PLAN



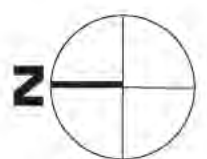
1/4" = 1'-0"

WALL LEGEND

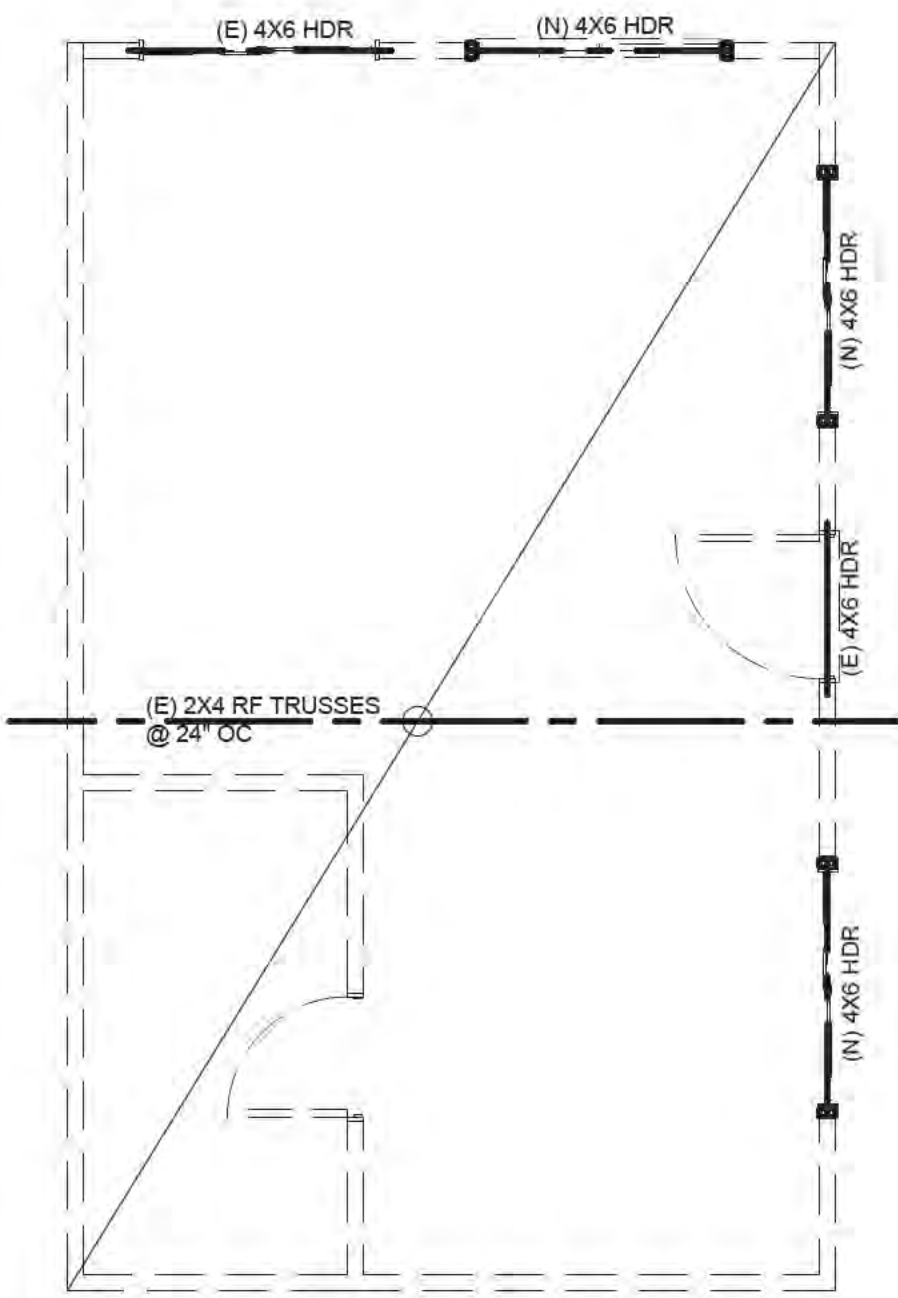
(E) 2X4 WALLS



(E) WORKSHOP FOUND PLAN



1/4" = 1'-0"



(E) WORKSHOP FRAMING PLAN



1/4" = 1'-0"



ELEVATION  
CROSS SECTION  
KEYED NOTES

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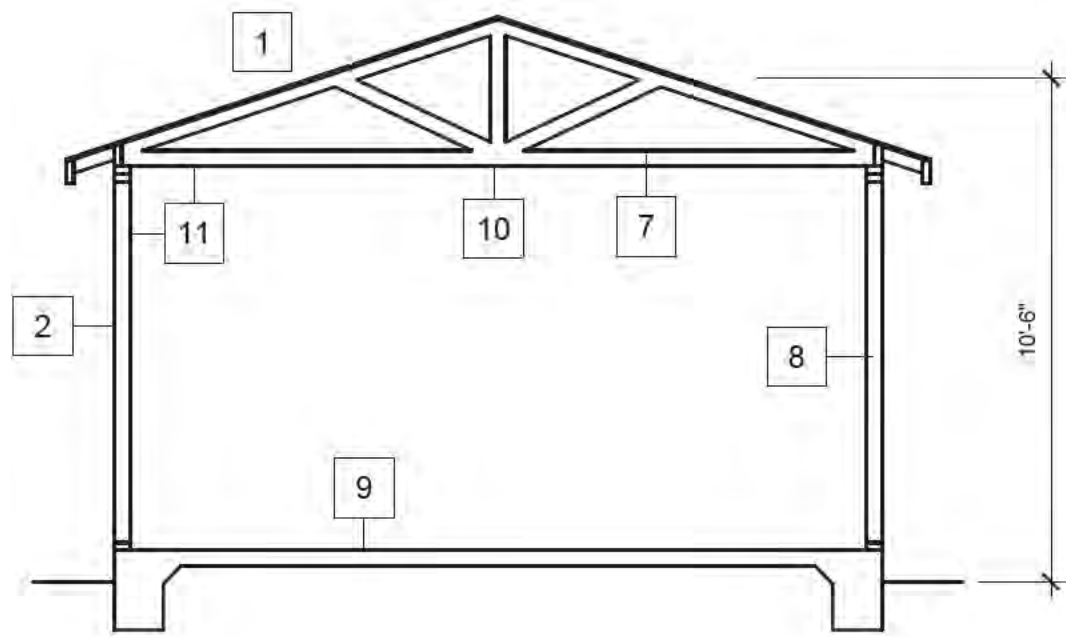
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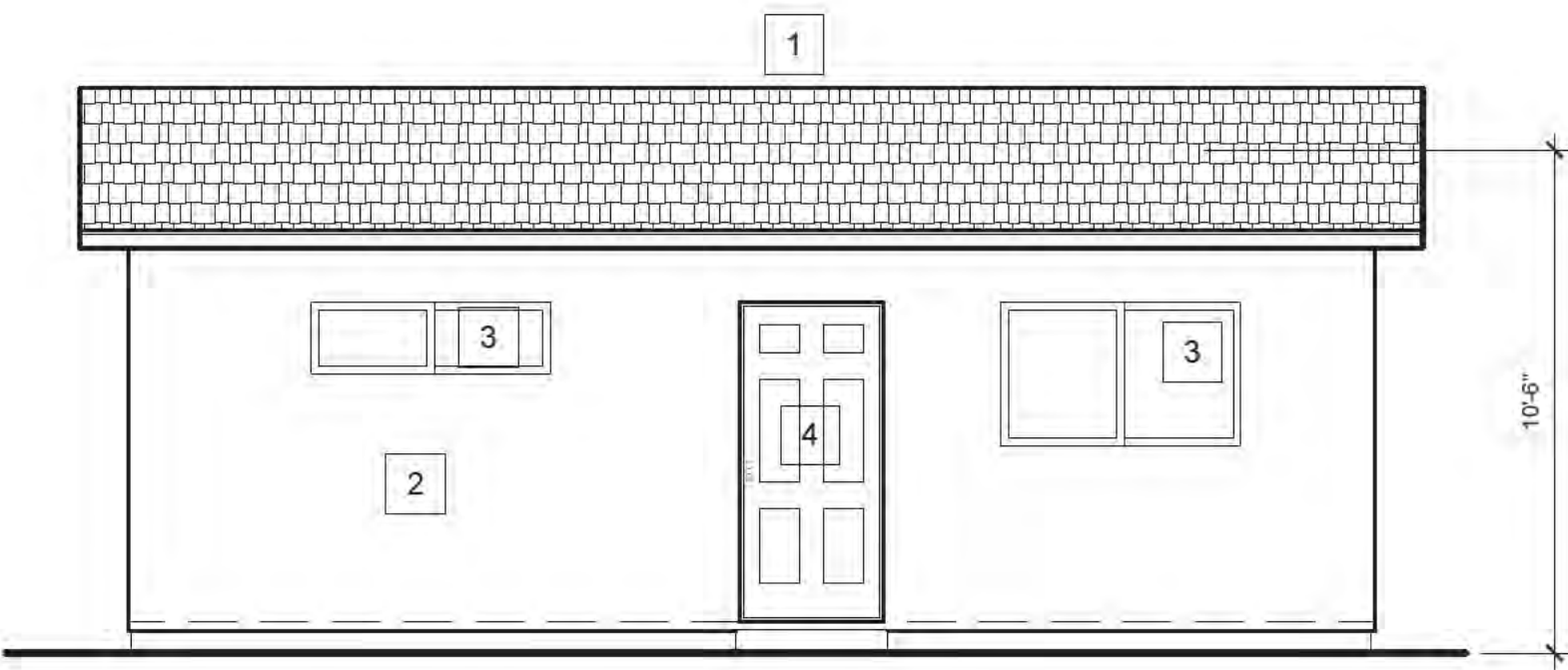
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CROSS SECTION

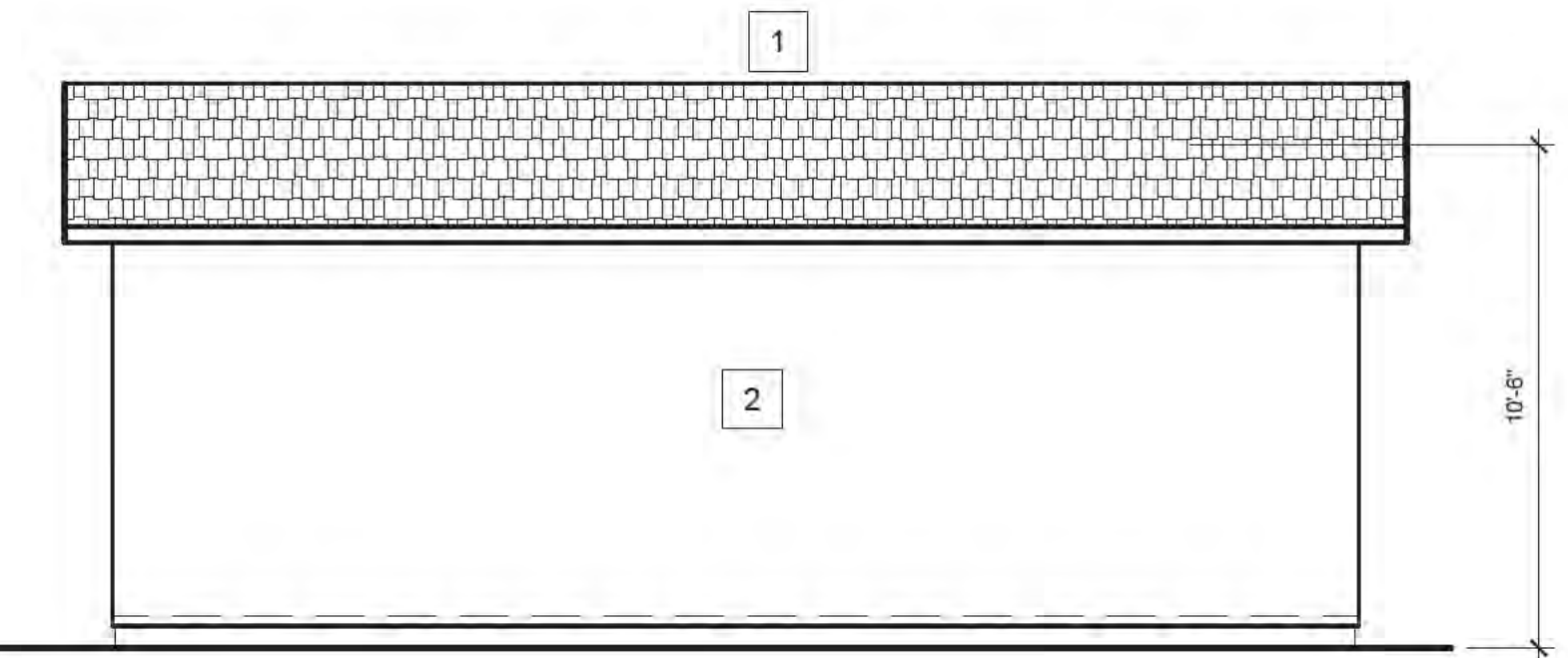
1/4" = 1'-0"

KEYED NOTES	
1	(E) ASPHALT SHINGLE ROOFING
2	(E) STUCCO
3	(E) D.G. VINYL W NDOWS - (1) PANE TEMP
4	(E) F BERGLASS FRONT DOOR
5	NA
6	(E) VINYL SLIDING DOOR - (1) PANE TEMP
7	(N) R30 INSULATION
8	R15 INSULATION
9	(E) CONG SLAB W/ "REDGUARD" OR EQUAL APPLIED FOR WATERPROOFING
10	(E) WOOD TRUSSES
11	3/4" GYP BD, WALLS & CE L NG



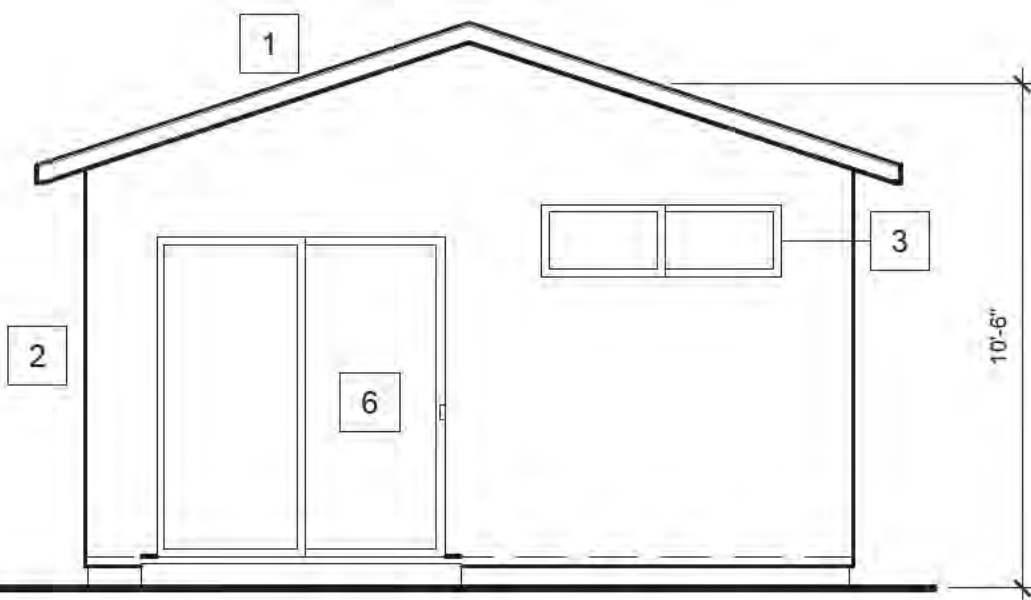
FRONT / SOUTH ELEVATION

1/4" = 1'-0"



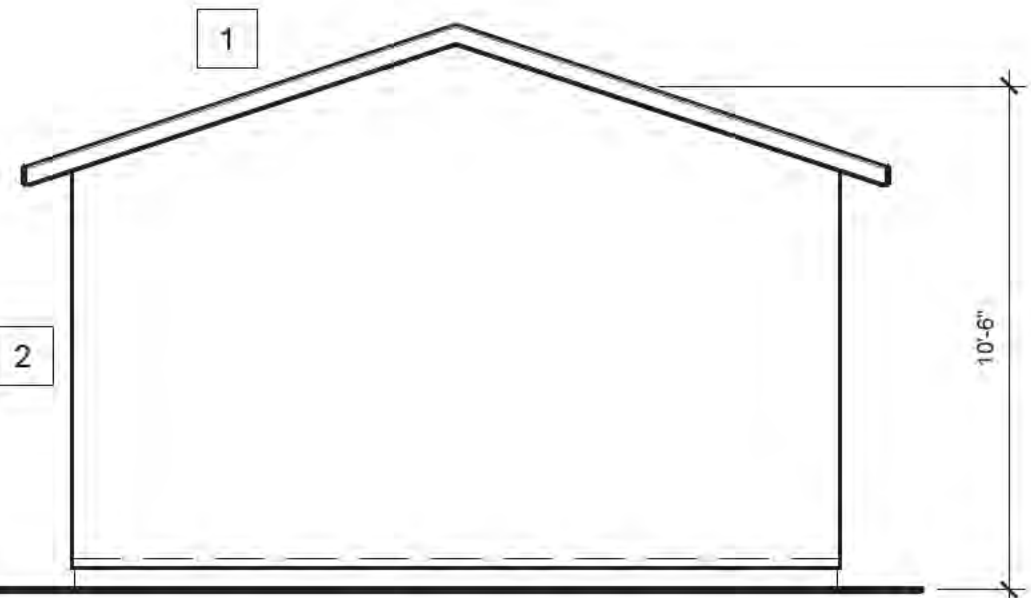
REAR / NORTH ELEVATION

1/4" = 1'-0"



RIGHT / EAST ELEVATION

1/4" = 1'-0"



LEFT / WEST ELEVATION

1/4" = 1'-0"



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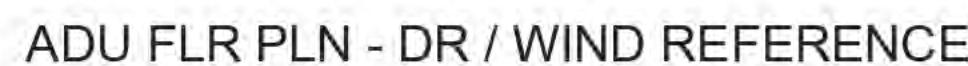
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A-3

[illegible]

1. ALL WINDOWS TO BE MINIMUM DUAL GLAZED, (1) PANE TEMPERED OR DUAL PANE TEMPERED AS NOTED IN THE SCHEDULE
2. U-FACTOR - .31 / SHGC - .27 PER T24 PAGES OF THIS PROJECT
3. THE NFRC THERMAL PERFORMANCE LABELS SHALL REMAIN ON THE WINDOWS UNTIL FINAL INSPECTION.
4. **BEDROOM EMERGENCY EGRESS**  
EACH BEDROOM SHALL HAVE A DOOR DIRECTLY TO THE EXTERIOR OR A WINDOW PROVIDING AT LEAST 5.7 SF IN THE OPEN POSITION & HAVE A MINIMUM CLEAR WIDTH OPENING OF 20 INCHES AND CLEAR OPENING HEIGHT OF 24 INCHES. WINDOWS SHALL HAVE A MAXIMUM SILL HEIGHT OF 44 INCHES ABOVE THE FLOOR. SLEEPING ROOMS AT GRADE FLOOR LEVEL MAY HAVE A CLEAR SPACE OPENING OF 5.5F.
5. WINDOW LABELING IS TO REMAIN IN PLACE ON THE WINDOWS AT THE TIME OF THE INSPECTION AND SHALL MATCH FACTORS AND COEFFICIENTS ON THE TITLE-24 ENERGY CALCULATIONS.

[illegible]

1. MATCH FINISH WINDOW / DOOR HEAD HEIGHT WHERE APPLICABLE.
2. VERIFY OWNER CHOICE ON TYPE, STYLES, ETC.,
3. EXTERIOR DOORS / SIDELIGHTS TO BE DG, TEMPERED GLASS
4. EXTERIOR DOORS TO MEET HIGH FIRE REQUIREMENTS, MIN 20 MIN RATED COMPONENTS, MATERIALS AND MINIMUMS PER HIGH FIRE.
5. GARAGE DOOR SHALL BE MIN 1 1/2" SOLID CORE, TIGHT FITTING W/ SELF CLOSING HARDWARE OR A TIGHT FITTING, SELF CLOSING DOOR WITH A FIRE PROTECTION RATING OF NOT LESS THAN 20 MINUTES.

**A** 708A.2.1 Exterior windows and exterior glazed door assembly requirements. Exterior windows and exterior glazed door assemblies shall comply with one of the following requirements: 1. Be constructed of multi-pane glazing with a minimum of one tempered pane meeting the requirements of Section 2405 Safety Glazing, or 2. Be constructed of glass block units, or 3. Have a fire-resistance rating of not less than 20 minutes when tested according to NFPA 257, or 5. Be tested to meet the performance requirements of SFM 12-7A-2.

708A.2.2 Structural glass veneer. The wall assembly behind structural glass veneer shall comply with section 707A.3.

**B** 708A.3 Exterior doors. Exterior doors shall comply with one of the following:

1. The exterior surface or cladding shall be of noncombustible or ignition-resistant material, or 2. Shall be constructed of solid core wood having stiles and rails not less than 1 3/8 inches thick with interior field panel thickness no less than 1 1/4 inches thick, or 3. Shall have a fire-resistance rating of not less than 20 minutes when tested according to NFPA 252. Exception: Solid doors having a fire-resistance rating of not less than 20 minutes may have tested glazing that complies with section 708A.2.4. Shall be tested to meet the performance requirements of standard SFM 12-7A-1.

708A.3.1 Exterior door glazing. Glazing in exterior doors shall comply with Section 708A.2.1.



ELECT PLAN  
ELECT-MECH  
NOTES

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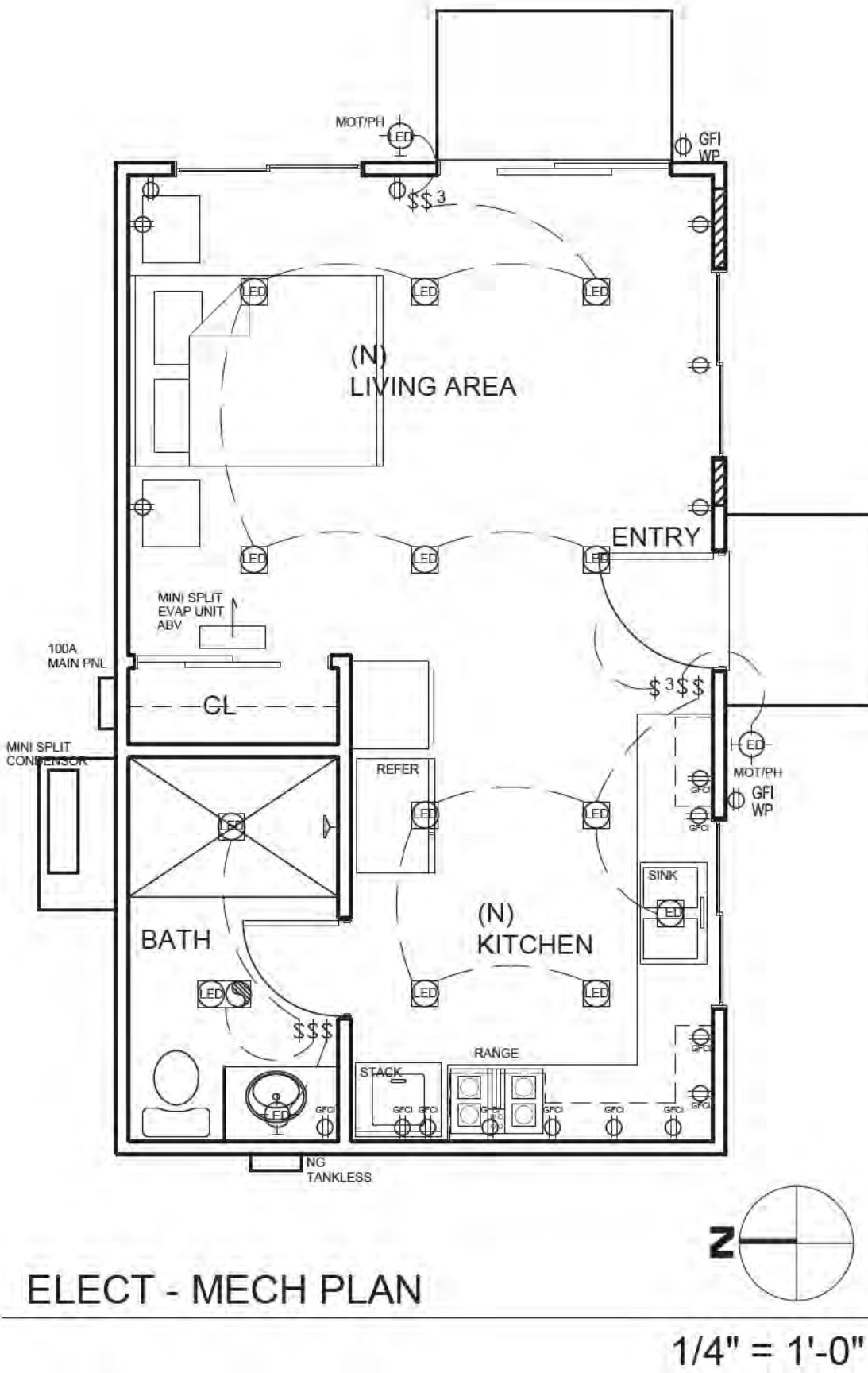
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E-1

ELECTRICAL LEGEND:	
⊕	AFCI/TAMPER RESISTENT OUTLET
⊕	DUPLEX OUTLET
⊕	GFCI / AFCD ON DUAL FUNKT. (DFCD)
⊕	DUPLEX OUTLET, TAMPER RESISTENT
⊕	GFCI, TAMPER RESIST
⊕	DUPLEX OUTLET
⊕	GFCI, WEATHER PROOF
⊕	DUPLEX OUTLET
⊕	FOURPLEX CONVENIENT OUTLET
⊕	1/2 HOT OUTLET
⊕	200V OUTLET
⊕	FLOOR OUTLET
⊕	JUNCTION BOX
⊕	GROUND FAULT INTERCEPTOR
⊕	DUPLEX CONVENIENT OUTLET
⊕	WATER PROOF OUTLET
⊕	VACANCY SENS SWITCH, MANUAL ON
⊕	SINGLE POLE SWITCH
⊕	THREE WAY SWITCH
⊕	FOUR WAY SWITCH
⊕	PUSH BUTTON SWITCH
⊕	DISPOSAL AIR SWITCH
⊕	ETHERNET JACK
⊕	USB JACK
⊕	PHONE JACK
⊕	CABLE TV
⊕	FLOOR LIGHTING - PIN BASED SOCKET
⊕	LED RECESSED LIGHT
⊕	WALL MOUNTED LIGHT
⊕	EXTENSION LIGHT, MOTION & PHOTO CTRL.
⊕	CEILING OR HANGING LIGHT - SURFACE MTD.
⊕	EXHAUST FAN, 50 CFM MIN.
⊕	RECESSED EXHAUST FAN W/ LED
⊕	50 CFM MIN. W/ HUMIDISTAT
⊕	RECESSED HALO
⊕	SMOKE DETECTOR, 110V, INTERCONNECTED
⊕	WITH BATTERY BACKUP
⊕	HANGING PENDANT (L.O.D.N.)
⊕	MASTER CONTROL SWITCH
⊕	FLOOD LIGHT
⊕	4-2" TWO CIRCUIT 110V
⊕	4-2" ONE CIRCUIT 110V
⊕	STAIR LIGHTS
⊕	CEILING FAN
⊕	WALL WASHER - AS INDICATED
⊕	ADJUSTABLE SPOTLIGHT - AS INDICATED
⊕	CHIMES
⊕	FUEL GAS
⊕	LOOSE KEY VALVE W/ SECONDARY
⊕	SHUT OFF VALVE
⊕	HOSE BIBB W/ FUSED ANTI-SIPHON DEVICE
⊕	1/2" COPPER WATER PIPE
⊕	CARBON MONOXIDE DETECTOR/ALARM
⊕	110V, INTERCONNECTED
⊕	WITH BATTERY BACKUP





GRN BLDG NOTES

260  
N. ALVARADO  
AVENUE

OJAI EL ROBLAR LLC

OJAI,  
CALIFORNIA

Ray Ames - Designer

*Ray Ames*

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foothilldesigngroup.com  
houzz.com/pro/fthillray

1.25.23

EN1

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

Calculation Date/Time: 2023-01-24T10:52:15-08:00

Input File Name: OjaiElRoblarLLCADU.rbd22x

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GENERAL INFORMATION					
01	Project Name	Residential Building			
02	Run Title	Title 24 Analysis			
03	Project Location	260 N Alvarado Street			
04	City	Ojai			
06	Zip code	93023	07	Standards Version	2022
08	Climate Zone	16	09	Software Version	CHERR-Rev 2022 2.0
10	Climate Zone	16	09	Front Orientation (deg/ Cardinal)	225
11	Building Type	Single family	12	Number of Dwelling Units	1
13	Project Scope	Newly Constructed Addition	14	Number of Bedrooms	3
15	Addition Cond. Floor Area (ft²)	384	16	Number of Stories	1
17	Existing Cond. Floor Area (ft²)	1176	18	Fenestration Average U-factor	0.34
19	Total Cond. Floor Area (ft²)	1560	20	Glazing Percentage (%)	20.20%
20	ADU Bedroom Count	1			

ADDITION ALONE - Project Analysis Parameters					
01	02	03	04	05	06
Existing Area (excl. new addition) (ft²)	Addition Area (excl. existing) (ft²)	Total Area (ft²)	Existing Bedrooms	Addition Bedrooms	Total Bedrooms
1176	384	1560	2	1	3

ADDITION ALONE - ACCESSORY DWELLING UNIT (ADU) PROJECT ANALYSIS PARAMETERS							
01	02	03	04	05	06	07	08
Zone Name	Existing Area (excl. new addition) (ft²)	ADU Area (excl. existing) (ft²)	Total Area (ft²)	Existing Bedrooms	Addition Bedrooms	Total Bedrooms	Attached vs. Detached
First Floor	1176	384	1560	2	1	3	Detached

Registration Number: 423-P010012779A-000-000-0000000-0000  
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CA Building Energy Efficiency Standards - 2022 Residential Compliance  
Report Version: 2022.0.000  
Schema Version: rev 20220901

Registration Date/Time: 01/24/2023 10:59

HERS Provider: CHERRS

Report Generated: 2023-01-24 10:52:46

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD  
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ENERGY USE INTENSITY				
	Standard Design (kBtu/ft² · yr)	Proposed Design (kBtu/ft² · yr)	Compliance Margin (kBtu/ft² · yr)	Margin Percentage
Gross EU <sup>1</sup>	62.18	61.41	0.77	1.24
Net EU <sup>2</sup>	62.18	61.41	0.77	1.24

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

**REQUIRED SPECIAL FEATURES**  
The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.  
• Variable capacity heat pump compliance option (verification details from VCHP Staff report, Appendix B, and RA3)

**HERS FEATURE SUMMARY**  
The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF1Rs and CF3Rs are required to be completed in the HERS Registry  
• Indoor air quality ventilation  
• Kitchen range hood  
• Verified Refrigerant Charge  
• Airflow in habitable rooms (SC3.3.4.1.7)  
• Verified heat pump rated heating capacity  
• Wall mounted thermostat in zones greater than 150 ft² (SC3.4.5)  
• Ductless indoor units located entirely in conditioned space (SC3.1.4.3.6)

ZONE INFORMATION						
01	02	03	04	05	06	07
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft²)	Avg. Ceiling Height	Water Heating System 1	Status
First Floor	Conditioned	HVAC System1	384	8	DHW Sys 1	New

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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												
01	02	03	04	05	06	07	08	09	10	11	12	13
Name	Heating Element Type	Tank Type	# of Units	Tank Vol. (gal)	Heating Element Type	Efficiency	Rated Input Type	Input Rating or Pilot	Tank Insulation R-value (Int/Ext)	Standby Loss or Recovery Eff	1st Ht. Rating or Flow Rate	Tank Location
DHW Heater 1	Gas	Consumer Instantaneo us	1	0	UEFF	0.82	Btu/Hr	200000	0	n/a		

WATER HEATING - HERS VERIFICATION						
01	02	03	04	05	06	07
Name	Pipe Insulation	Parallel Piping	Compact Distribution	Compact Distribution Type	Recirculation Control	Shower Drain Water Heat
DHW Sys 1 - 1/1	Not Required	Not Required	Not Required	None	Not Required	Not Required

SPACE CONDITIONING SYSTEMS								
01	02	03	04	05	06	07	08	09
Name	System Type	Heating Unit Name	Heating Equipment Count	Cooling Unit Name	Cooling Equipment Count	Fan Name	Distribution Name	Required Thermostat Type
HVAC System1	Heat pump heating/cooling	Heat Pump System 1	1	Heat Pump System 1	1	n/a	n/a	Setback

Registration Number: 423-P010012779A-000-000-0000000-0000  
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COMPLIANCE RESULTS		
01	Building Complies with Computer Performance	
02	This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider.	
03	This building incorporates one or more Special Features shown below	



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OPAQUE SURFACES									
01	02	03	04	05	06	07	08	09	10
Name	Zone	Construction	Aslrueth	Orientation	Gross Area (ft²)	Window and Door Area (ft²)	Tilt (deg)	Wall Exceptions	Status
Northwest Wall	First Floor	R-15 Wall	315	Left	128	0	90	Ex. w/ Siding	New
Northest Wall	First Floor	R-15 Wall	45	Back	208	0	90	Ex. w/ Siding	New
Southeast Wall	First Floor	R-15 Wall	135	Right	128	47.5	90	Ex. w/ Siding	New
Southwest Wall	First Floor	R-15 Wall	225	Front	208	50	90	Ex. w/ Siding	New
Roof	First Floor	R-30 Roof Attic	n/a	n/a	384	n/a	n/a		New

ATTIC							
01	02	03	04	05	06	07	08
Name	Construction	Type	Roof Rise (x in 12)	Roof Reflectance	Roof Emittance	Radiant Barrier	Cool Roof
Attic First Floor	Attic RoofFirst Floor	Ventilated	4	0.1	0.85	No	No

FENESTRATION / GLAZING													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Aslrueth	Width (ft)	Height (ft)	Mult.	Area (ft²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
Window	Window	Southeast Wall	Right	135			1	47.5	0.34	NFRC	0.34	NFRC	Bug Screen
Window 2	Window	Southwest Wall	Front	225			1	50	0.34	NFRC	0.34	NFRC	Bug Screen

OPAQUE DOORS			
01	02	03	04
Name	Side of Building	Area (ft²)	U-factor
Door	Southwest Wall	20	0.5

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HVAC - HEAT PUMPS												
01	02	03	04	05	06	07	08	09	10	11	12	13
Name	System Type	Number of Units	Efficiency Type	HSPF / HSPF2 / COP	Cap 47	Cap 17	Efficiency Type	SEER / SEER2	EER / EER / CEER	Zonally Controlled	Compressor Type	HERS Verification
Heat Pump System 1	VCHPductless	1	HSPF	8.5	24000	17500	EERSEER	14	11	Not Zonal	Single Speed	Heat Pump System 1-1ers-Htump

HVAC HEAT PUMPS - HERS VERIFICATION								
01	02	03	04	05	06	07	08	09
Name	Verified Airflow	Airflow Target	Verified EER/EER2	Verified SEER/SEER2	Verified Refrigerant Charge	Verified HSPF/HSPF2	Verified Heating Cap 47	Verified Heating Cap 17
Heat Pump System 1-1ers-Htump	Not Required	0	Not Required	Not Required	Yes	No	Yes	Yes

VARIABLE CAPACITY HEAT PUMP COMPLIANCE OPTION - HERS VERIFICATION									
01	02	03	04	05	06	07	08	09	10
Name	Certified Low-Static VCHP System	Airflow to Habitable Rooms	Ductless Units in Conditioned Space	Wall Mount Thermostat	Air Filter: String Bump Pressure Drop Rating	Low Leakage Ducts in Conditioned Space	Minimum Airflow per RA3.3 and SC3.3.4.1.1	Certified non-continuous Fan	Indoor Fan not Running Continuously
Heat Pump System 1	Not required	Required	Required	Required	Not required	Not required	Not required	Not required	Not required

INDOOR AIR QUALITY (IAQ) FANS								
01	02	03	04	05	06	07	08	09
Dwelling Unit	Airflow (CFM)	Fan Efficiency (W/CFM)	IAQ Fan Type	Includes Heat/Energy Recovery?	IAQ Recovery Effectiveness - SRE	Includes Fault Indicator Display?	HERS Verification	Status
SFsm ADU IAQVentpvc	27	0.35	Exhaust	No	n/a	No	Yes	

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ENERGY USE SUMMARY						
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft² · yr)	Standard Design TDV Energy (EDR2) (kTDO/ft² · yr)	Proposed Design Source Energy (EDR1) (kBtu/ft² · yr)	Proposed Design TDV Energy (EDR2) (kTDO/ft² · yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	0	83.78	0	85.17	0	3.61
Space Cooling	0	8.51	0	7.71	0	0.8
IAQ Ventilation	0	5.83	0	5.83	0	0
Water Heating	0	84.94	0	84.15	0	0.79
Self Utilization/Flexibility Credit						
Efficiency Compliance Total	0	189.05	0	183.86	0	5.2
Photovoltaics	0			0		
Battery				0		
Flexibility						
Indoor Lighting	0	8.11	0	8.11		
Appl. & Cooking	0	80.69	0	80.7		
Plug Loads	0	101.45	0	101.46		
Outdoor Lighting	0	7.56	0	7.56		
TOTAL COMPLIANCE	0	386.88	0	381.69		



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\*Exceptions may apply.



Division 4.1 – PLANNING AND DESIGN

SECTION 4.101  
GENERAL

**4.101.1 Scope.** The provisions of this division outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.

SECTION 4.102  
DEFINITIONS

**4.102.1 Definitions.** The following terms are defined in Chapter 2.

**FRENCH DRAIN.**

**WATTLÉS.**

SECTION 4.103  
SITE SELECTION  
(Reserved)

SECTION 4.104  
SITE PRESERVATION  
(Reserved)

SECTION 4.105  
DECONSTRUCTION AND REUSE  
OF EXISTING STRUCTURES  
(Reserved)

SECTION 4.106  
SITE DEVELOPMENT

**4.106.1 General.** Preservation and use of available natural resources shall be accomplished through evaluation and careful planning to minimize negative effects on the site and adjacent areas. Preservation of slopes, management of storm water drainage and erosion controls shall comply with this section.

**4.106.2 Storm water drainage and retention during construction.** Projects which disturb less than one acre of soil and are not part of a larger common plan of development which in total disturbs one acre or more, shall manage storm water drainage during construction. In order to manage storm water drainage during construction, one or more of the following measures shall be implemented to prevent flooding of adjacent property, prevent erosion and retain soil runoff on the site.

1. Retention basins of sufficient size shall be utilized to retain storm water on the site.

2. Where storm water is conveyed to a public drainage system, collection point, gutter or similar disposal method, water shall be filtered by use of a barrier system, wattle or other method approved by the enforcing agency.

3. Compliance with a lawfully enacted storm water management ordinance.

**Note:** Refer to the State Water Resources Control Board for projects which disturb one acre or more of soil, or are part of a larger common plan of development which in total disturbs one acre or more of soil.

(Website: [https://www.waterboards.ca.gov/water\\_issues/programs/stormwater/construction.htm](https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.htm))

**4.106.3 Grading and paving.** Construction plans shall indicate how the site grading or drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

- Swales
- Water collection and disposal systems
- French drains
- Water retention gardens
- Other water management methods that keep surface water away from buildings and sit in groundwater recharge

**Exception:** Additions and alterations not altering the drainage path.

**4.106.4 Electric vehicle (EV) charging for new construction.** New construction shall comply with Section 4.106.4.1, 4.106.4.2, or 4.106.4.3, to facilitate future installation and use of EV chargers. Electric vehicle supply equipment (EVSE) shall be installed in accordance with the *California Electrical Code*, Article 625.

**Exceptions:**

- On a case-by-case basis, where the local enforcing agency has determined EV charging and infrastructure are not feasible based upon one or more of the following conditions:

- Where there is no commercial power supply.
- Where there is evidence substantiating that meeting the requirements will alter the local utility infrastructure design requirements on the utility side of the meter so as to increase the utility side cost to the homeowner or the developer by more than \$400.00 per dwelling unit.

- Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional parking facilities.

**4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages.** For each dwelling unit, install a listed receptacle to accommodate a dedicated 208/240-volt branch circuit. The receptacle shall not be less than trade size 1 (nominal 1-inch inside diameter). The receptacle shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device.

**4.106.4.1.1 Identification.** The service panel or sub-panel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging as "EV CAPABLE". The receptacle termination location shall be permanently and visibly marked as "EV CAPABLE".

**4.106.4.2 New multifamily dwellings.** If residential parking is available, ten (10) percent of the total number of parking spaces on a building site, provided for all types of parking facilities, shall be electric vehicle charging spaces (EV spaces) capable of supporting future EVSE. Calculations for the required number of EV spaces shall be rounded up to the nearest whole number.

**Notes:**

- Construction documents are intended to demonstrate the project's capability and capacity for facilitating future EV charging.
- There is no requirement for EV spaces to be constructed or available until EV chargers are installed for use.

**4.106.4.2.1 Electric vehicle charging space (EV space) locations.** Construction documents shall indicate the location of proposed EV spaces. Where com-

mon use parking is provided at least one EV space shall be located in the common use parking area and shall be available for use by all residents.

**4.106.4.2.1.1 Electric vehicle charging stations (EVCS).** When EV charging is installed, EV spaces required by Section 4.106.4.2.2, Item 3, shall comply with at least one of the following options:

- The EV space shall be located adjacent to an accessible parking space meeting the requirements of the *California Building Code*, Chapter 11A, to allow use of the EV charger from the accessible parking space.
- The EV space shall be located on an accessible route, as defined in the *California Building Code*, Chapter 2, to the building.

**Exception:** Electric vehicle charging stations designed and constructed in compliance with the *California Building Code*, Chapter 11B, are not required to comply with Section 4.106.4.2.1.1 and Section 4.106.4.2.2, Item 3.

**Note:** Electric vehicle charging stations serving public housing are required to comply with the *California Building Code*, Chapter 11.B.

**4.106.4.2.2 Electric vehicle charging space (EV space) dimensions.** The EV spaces shall be designed to comply with the following:

- The minimum length of each EV space shall be 18 feet (5486 mm).
- The minimum width of each EV space shall be 9 feet (2743 mm).
- One in every 25 EV spaces, but not less than one, shall also have an 8-foot (2438 mm) wide minimum aisle. A 5-foot (1524 mm) wide minimum aisle shall be permitted provided the minimum width of the EV space is 12 feet (3658 mm).

- Surface slope for this EV space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 percent slope) in any direction.

**4.106.4.2.3 Single EV space required.** Install a listed receptacle capable of accommodating a 208/240-volt dedicated branch circuit. The receptacle shall not be less than trade size 1 (nominal 1-inch inside diameter). The receptacle shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or enclosure in close proximity to the proposed location of the EV space. Construction documents shall identify the receptacle termination point. The service panel and/or subpanel shall provide capacity to install a 40-ampere minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device.

**4.106.4.2.4 Multiple EV spaces required.** Construction documents shall indicate the receptacle termination point and proposed location of future EV spaces and EV chargers. Construction documents shall also provide information on amperage of future EVSE, receptacle method(s), wiring schematics and electrical load calculations to verify that the electrical panel service capacity and electrical system, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all EVs at all required EV spaces at the full rated amperage of the EVSE. Plan design shall be based upon a 40-ampere minimum branch circuit. Required raceways and related components that are planned to be installed underground, enclosed, inaccessible or in concealed areas and spaces shall be installed at the time of original construction.

**4.106.4.2.5 Identification.** The service panel or sub-panel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE" in accordance with the *California Electrical Code*.

**4.106.4.3 New hotels and motels.** All newly constructed hotels and motels shall provide EV spaces capable of supporting future installation of EVSE. The construction documents shall identify the location of the EV spaces.

**Notes:**

- Construction documents are intended to demonstrate the project's capability and capacity for facilitating future EV charging.
- There is no requirement for EV spaces to be constructed or available until EV chargers are installed for use.

**4.106.4.3.1 Number of required EV spaces.** The number of required EV spaces shall be based on the total number of parking spaces provided for all types of parking facilities in accordance with Table 4.106.4.3.1. Calculations for the required number of EV spaces shall be rounded up to the nearest whole number.

**TABLE 4.106.4.3.1**

TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED EV SPACES
0-9	0
10-25	1
26-50	2
51-75	4
76-100	5
101-150	7
151-200	10
201 and over	6 percent of total

**4.106.4.3.2 Electric vehicle charging space (EV space) dimensions.** The EV spaces shall be designed to comply with the following:

- The minimum length of each EV space shall be 18 feet (5486 mm).
- The minimum width of each EV space shall be 9 feet (2743 mm).

**4.106.4.3.3 Single EV space required.** When a single EV space is required, the EV space shall be designed in accordance with Section 4.106.4.2.3.

**4.106.4.3.4 Multiple EV spaces required.** When multiple EV spaces are required, the EV spaces shall be designed in accordance with Section 4.106.4.2.4.

**4.106.4.3.5 Identification.** The service panels or sub-panels shall be identified in accordance with Section 4.106.4.2.5.

**4.106.4.3.6 Accessible EV spaces.** In addition to the requirements in Section 4.106.4.3, EV spaces for individuals with disabilities shall comply with the accessibility provisions for EV charging stations in the *California Building Code*, Chapter 11B.

**Division 4.2 – ENERGY EFFICIENCY**

SECTION 4.201  
GENERAL

**4.201.1 Scope.** For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory standards.

Division 4.3 – WATER EFFICIENCY AND CONSERVATION

SECTION 4.301  
GENERAL

**4.301.1 Scope.** The provisions of this chapter shall establish the means of conserving water used indoors, outdoors and in wastewater conveyance.

SECTION 4.302  
DEFINITIONS

**4.302.1 Definitions.** Reserved.

SECTION 4.303  
INDOOR WATER USE

**4.303.1 Water conserving plumbing fixtures and fittings.** Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with Sections 4.303.1.1, 4.303.1.2, 4.303.1.3, and 4.303.1.4.

**Note:** All noncompliant plumbing fixtures in any residential real property shall be replaced with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy, or final permit approval by the local building department. See Civil Code Section 1101.1, et seq. for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates.

**4.303.1.1 Water closets.** The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-type Toilets.

**Note:** The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

**4.303.1.2 Urinals.** The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush. The effective flush volume of all other urinals shall not exceed 0.5 gallons per flush.

**4.303.1.3 Showerheads.**

**4.303.1.3.1 Single showerhead.** Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

**4.303.1.3.2 Multiple showerheads serving one shower.** When a shower is served by more than one showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.

**Note:** A hand-held shower shall be considered a showerhead.

**4.303.1.4 Faucets.**

**4.303.1.4.1 Residential lavatory faucets.** The maximum flow rate of residential lavatory faucets shall not exceed 1.2 gallons per minute at 60 psi. The minimum flow rate of residential lavatory faucets shall not be less than 0.8 gallons per minute at 20 psi.

**4.303.1.4.2 Lavatory faucets in common and public use areas.** The maximum flow rate of lavatory faucets installed in common and public use areas (outside of dwellings or sleeping units) in residential buildings shall not exceed 0.5 gallons per minute at 60 psi.

**4.303.1.4.3 Metering faucets.** Metering faucets when installed in residential buildings shall not deliver more than 0.2 gallons per cycle.

**4.303.1.4.4 Kitchen faucets.** The maximum flow rate of kitchen faucets shall not exceed 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.

**Note:** Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.

**4.303.2 Standards for plumbing fixtures and fittings.** Plumbing fixtures and fittings shall be installed in accordance with the *California Plumbing Code* and shall meet the applicable standards referenced in Table 1701.1 of the *California Plumbing Code*.

SECTION 4.304  
OUTDOOR WATER USE

**4.304.1 Outdoor potable water use in landscape areas.** Residential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

**Notes:**

- The Model Water Efficient Landscape Ordinance (MWELO) is located in the *California Code of Regulations*, Title 23, Chapter 2.7, Division 2.

MWELO and supporting documents, including a water budget calculator, are available at: <http://www.water.ca.gov/>

SECTION 4.305  
WATER REUSE SYSTEMS

**4.305.1 Recycled water supply systems.** Newly constructed residential developments, where disinfected tertiary recycled water is available from a municipal source to a construction site, may be required to have recycled water supply systems installed, allowing the use of recycled water for residential landscape irrigation systems. See Chapter 15 of the *California Plumbing Code*.

Division 4.4 – MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 4.401  
GENERAL

**4.401.1 Scope.** The provisions of this chapter shall outline means of achieving material conservation and resource efficiency through protection of buildings from exterior moisture; construction waste diversion; employment of techniques to reduce pollution through recycling of materials; and building commissioning or testing, adjusting and balancing.

SECTION 4.402  
DEFINITIONS

**4.402.1 Definitions.** Reserved.

SECTION 4.403  
FOUNDATION SYSTEMS  
(Reserved)

SECTION 4.404  
EFFICIENT FRAMING TECHNIQUES  
(Reserved)

SECTION 4.405  
MATERIAL SOURCES  
(Reserved)

SECTION 4.406  
ENHANCED DURABILITY  
AND REDUCED MAINTENANCE

**4.406.1 Rodent proofing.** Annular spaces around pipes, electric cables, conduits or other openings in solebottom plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing agency.

SECTION 4.407  
WATER RESISTANCE  
AND MOISTURE MANAGEMENT  
(Reserved)

SECTION 4.408  
CONSTRUCTION WASTE REDUCTION,  
DISPOSAL AND RECYCLING

**4.408.1 Construction waste management.** Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with either Section 4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste management ordinance.

**Exceptions:**

- Excavated soil and land-clearing debris.
- Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasonably close to the jobsite.
- The enforcing agency may make exceptions to the requirements of this section when isolated jobsites are located in areas beyond the local boundaries of the diversion facility.

**4.408.2 Construction waste management plan.** Submit a construction waste management plan in conformance with Items 1 through 5. The construction waste management plan shall be updated as necessary and shall be available during construction for examination by the enforcing agency.

1. Identify the construction and demolition waste materials to be diverted from disposal by recycling, reuse on the project or salvage for future use or sale.

2. Specify if construction and demolition waste materials will be sorted on site (source-separated) or bulk mixed (single stream).

3. Identify diversion facilities where the construction and demolition waste material will be taken.

4. Identify construction methods employed to reduce the amount of construction and demolition waste generated.

5. Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

**4.408.3 Waste management company.** Utilize a waste management company, approved by the enforcing agency, which can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with Section 4.408.1.

**Note:** The owner or contractor may make the determination if the construction and demolition waste materials will be diverted by a waste management company.

**4.408.4 Waste stream reduction alternative [LR].** Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 pounds per square foot of the building area shall meet the minimum 65 percent construction waste reduction requirement in Section 4.408.1.

**4.408.4.1 Waste stream reduction alternative.** Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 2 pounds per square foot of the building area, shall meet the minimum 65 percent construction waste reduction requirement in Section 4.408.1.

**4.408.5 Documentation.** Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 4.408.2, Items 1 through 5, Section 4.408.3 or Section 4.408.4.

**Notes:**

- Sample forms found in "A Guide to the California Green Building Standards Code (Residential)" located at <http://www.lcd.ca.gov/building-standards/california-green-standards> may be used to assist in documenting compliance with this section.
- Mixed construction and demolition debris (C&D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

SECTION 4.409  
LIFE CYCLE ASSESSMENT  
(Reserved)

SECTION 4.410  
BUILDING MAINTENANCE AND OPERATION

**4.410.1 Operation and maintenance manual.** At the time of final inspection, a manual, compact disc, web-based reference or other media acceptable to the enforcing agency which includes all of the following shall be placed in the building:

- Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure.
- Operation and maintenance instructions for the following:
  - Equipment and appliances, including water-saving devices and systems, HVAC systems, photovoltaic systems, electric vehicle chargers, water-heating systems and other major appliances and equipment.
  - Roof and yard drainage, including gutters and downspouts.
  - Space conditioning systems, including condensers and air filters.
  - Landscape irrigation systems.
  - Water reuse systems.
- Information from local utility, water and waste recovery providers on methods to further reduce resource consumption, including recycle programs and locations.
- Public transportation and/or carpool options available in the area.
- Educational material on the positive impacts of an interior relative humidity between 30-60 percent and what methods an occupant may use to maintain the relative humidity level in that range.
- Information about water-conserving landscape and irrigation design and controllers which conserve water.
- Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation.
- Information on required routine maintenance measures, including, but not limited to, caulking, painting, grading around the building, etc.
- Information about site solar energy and incentive programs available.

10. A copy of all special inspection verifications required by the enforcing agency or this code.

**4.410.2 Recycling by occupants.** Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible area(s) that serves all buildings on the site and are identified for the depositing, storage and collection of nonhazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals, or meet a lawfully enacted local recycling ordinance, if more restrictive.

**Exception:** Rural jurisdictions that meet and apply for the exemption in Rural Resources Code Section 42649.82 (a)(2)(A) et seq. are not required to comply with the organic waste portion of this section.

Division 4.5 – ENVIRONMENTAL QUALITY

SECTION 4.501  
GENERAL

**4.501.1 Scope.** The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of a building's occupants and neighbors.

SECTION 4.502  
DEFINITIONS

**4.502.1 Definitions.** The following terms are defined in Chapter 2.

**AGRI-FIBER PRODUCTS.**

**COMPOSITE WOOD PRODUCTS.**

**DIRECT-VENT APPLIANCE.**

**MAXIMUM INCREMENTAL REACTIVITY (MIR).**

**MOISTURE CONTENT.**

**PRODUCT-WEIGHTED MIR (PWMIR).**

**REACTIVE ORGANIC COMPOUND (ROC).**

**VOC.**

SECTION 4.503  
FIREPLACES

**4.503.1 General.** Any fireplace that shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits. Woodstoves, pellet stoves and fireplaces shall also comply with applicable local ordinances.

SECTION 4.504  
POLLUTANT CONTROL

**4.504.1 Covering of duct openings and protection of mechanical equipment during construction.** At the time of rough installation, during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of water, dust and debris, which may enter the system.

**4.504.2 Finish material pollutant control.** Finish materials shall comply with this section.

**4.504.2.1 Adhesives, sealants and caulks.** Adhesives, sealants and caulks used on the project shall meet the requirements of the following standards unless more stringent local or regional air pollution control or air quality management district rules apply:

- Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers, and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable or SCAQMD Rule 1.168 VOC limits, as shown in Table 4.504.1 or 4.504.2, as applicable. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products, as specified in Subsection 2 below.
- Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than 1 pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94507.

**4.504.2.2 Paints and coatings.** Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Suggested Control Measure, as shown in Table 4.504.2, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definition for the specialty coatings categories listed in Table 4.504.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in subsections 4.21, 4.36, and 4.37 of the 2007 California Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 4.504.3 shall apply.

**4.504.2.3 Aerosol paints and coatings.** Aerosol paints and coatings shall meet the Product-weighted MIR Limits for ROC in Section 94522(a)(2) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(a)(1) and (f)(1) of *California Code of Regulations*, Title 17, commencing with Section 94520, and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8, Rule 49.

**4.504.2.4 Verification.** Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

- Manufacturer's product specification.
- Field verification of on-site product containers.

TABLE 4.504.1 ADHESIVE VOC LIMIT <sup>1,2</sup> Less Water and Less Exempt Compounds in Grams per Liter	
ARCHITECTURAL APPLICATIONS	VOC LIMIT
Interior carpet adhesives	50
Carpet pad adhesives	50
Outdoor carpet adhesives	150
Wood flooring adhesives	100
Roller floor adhesives	60
Self-floor adhesives	60
Ceramic tile adhesives	65
VCT and asphalt tile adhesives	50
Drywall and panel adhesives	50
Low base adhesives	50
Multistep construction adhesives	70
Structural glazing adhesives	100
Single-ply roof membrane adhesives	250
Other adhesives not specifically listed	50
SPECIALTY APPLICATIONS	
PVC welding	510
CPVC welding	480





## Will-Serve/Proof of Service/Meter Request Form

A "Will-Serve" letter may be issued upon the District's completion of an analysis determining that all conditions of approval are met.

### Required Attachments:

1. Drawing/sketch of project (with dimensions)
  2. Tax Assessors parcel map that includes the subject property.
  3. Subdivision map covering the location of the project.\*
  4. Documentation of existing permitted dwellings on the property.
- \* Clearly indicate all APNs and legal lots involved in the project. Ensure any markups to county documents do not obscure the underlying information.

### Applicant Information:

Account Number:

Name:

Company:

Mailing Address:

Phone Number:

Email Address:

### Project Information:

New Meter Requested: ☐ Yes ☐ No

Assessor's Parcel #(s):

Service Address:

City, State, Zip code:

Planning Dept Case #:

# of Existing Dwellings:  Date Dwellings Permitted:

Type of Construction:

☐ New Construction ☒ Tenant Improvement ☒ ADU ☐ Other

Type of Use:

☒ Single Family Res ☐ Multi-Family Res (# of dwellings ) ☐ Other

Project Dimensions (Sqft):

Continued on Next Page





## Will-Serve/Proof of Service/Meter Request Form

### Detailed Project Description:

Change of use from permitted Garage w/ bathroom (<sup>1944</sup>~~1964~~) to ADU w/ kitchen and 240 sq ft ad

*Please allow a minimum of 60 days to evaluate and process Will-Serve letter and new meter requests.  
The time frame will depend on receipt of satisfactory information from the applicant and schedule  
of pertinent District Committees and Board of Directors meetings.*

☒ *I acknowledge that MOWD will bill a \$100 Administrative Fee for processing this request.*

**Applicant Signature**

[Redacted Signature]

**Date**

3/24/23



## Review of Application for Will Serve Letter

### Conversion of a permitted garage with bathroom to a 720-sf ADU with kitchen for Property with Existing Meter at 1186 S Rice Rd.

#### ***Proposal***

The proposed project consists of tenant improvement to a permitted 439-sf garage with bathroom, adding 240-sf to an ADU with kitchen.

Applicant provided a detailed site plan, showing the location of the proposed structure.

#### ***Screening Step 1: Is the proposed building site on a legal lot? YES***

Applicant provided a copy of a tax assessor parcel map and a subdivision map that indicate a single 0.95-acre parcel. APN: 081-0-101-115

#### ***Screening Step 2. Will the current allocation support an ADU? YES***

Allocation Details:

- Allocation Case Identifier: AA-1052
- Allocation Category: 5/8" RES meter, 1 Parcel
- Parcel Size: 0.95 acre
- Current Base Fixed Allocation: 120 HCF/yr
- Current Base Variable Allocation: 324 HCF/yr
- Fixed Base Allocation Needed to Support ADU: 84 HCF/yr
- Deduction from Variable Allocation needed to Support ADU through drought stages: 100 HCF/yr

If the ADU are provided the customary fixed dwelling allocations, the new allocation for this property would be as follows:

- New Base Fixed Allocation: **180 HCF/yr**
- New Base Variable Allocation: **224 HCF/yr**

#### ***Recommendation***

If a will serve letter is to be supplied, but must clearly state:

- Letter applies only to the proposed ADU as described in the applicant-provided preliminary site plan with the file date 2-23-2023.
- There will be no increase in the total (fixed plus variable) water allocation assigned to the meter Will Serve Letter will expire after 1 year.



# RESIDENTIAL BUILDING RECORD

PARCEL 018-101-115  
SHEET 2 OF 2 SHEETS

LOT BLK CODE ADDRESS 1186 RICE RD.

NAME  
SUB

## DESCRIPTION OF BUILDING

CLASS & SHAPE	CONSTRUCTION	STRUCTURAL	EXTERIOR	ROOF	LIGHTING	AIR CONDITION	ROOM AND FINISH DETAIL				
							ROOMS	FLOORS	FLOOR FINISH	TRIM	INTERIOR FINISH
D 4.5 B	Light	X Frame	X Stucco on CW	Flat	X Pitch	X Heating X Cooling	B 1 2	X	LINO	F OP	Walls PL Ceilings PL
ARCHITECTURE	Sub-Standard	X 2" x 4" x 16"	X Siding	X Gable	X K.T.	X Forced	All				
	Standard	Sheathing	X Siding	X Hip	X B.X.	X Gravity					
	Above-Standard	Concrete Block		X Shed	X Fixtures	Wall Unit					
1 Stories	Special	B & B	X T & G.	X Cut Up	X Cheap	Ent Hall					
TYPE		Brick	X Shingle	X Dormers	X Avg.	X Floor Unit					
Use	Design	Asobe	X Shake	X Raft 2" x 6" x 24"	X Med	X Zone Unit					
X Single	X Concrete	X Floor Joist	X B & B.	X Gutters	X Special	Central					
Double	Reinforced	X 18" x 24" x 16"		X METAL	PLUMBING	EVAP COOL	Bed	1	AT		SWA KP KP-O.B.M
Duplex	Brick	X 24" x 24"	X Brick	X Shingle	X Water		Bed	1			
Apartment	Wood	X Sub-Floor OP	X Stone	X Shake	X Sink	Oil Burner					
Flat-Court	Piers	Concrete Floor	X WINDOWS	X Tile	X Laundry		Kitchen				
Motel		Insulated Ceilings	X D.H.	X Casement	X Water Htr-Auto.	X Fireplace	Drain Bd	1	A		
	Light	Insulated Walls	X Metal Sash	X Compa.	X Water-Softner						
	Heavy		X Screens	X Compa Shingle							

## RATING (E, G, A, F, P)

CONSTRUCTION RECORD				EFFECT. YEAR	APPR. YEAR	NORMAL % GOOD			RATING (E,G,A,F,P)				BATH DETAIL				SPECIAL FEATURES							
Permit No.	For	Amount	Date			Age	Remaining Life	Table	%	Cond.	Arch. Attr.	Func. Plan	Con- form	Storage Cupb	Space Closet	Work- in ship	Fl. No.	Floors	Walls	Wc. Lo. Tub	Type	Grade	Shower St. Q.T.G.D.	Finish
			1949	1949	1965	16	40	49	A	A	A	A	A	A	A	1	LINO	PL-EN	1	1	M	A	X	T
				1949	1973	24	36	71	A	A	A	A	A	A	A									
												</												

## SPECIAL FEATURES

Book Cases																							
Shutters																							
Disposal																							
Bit in Range																							
Bit in Dishwasher																							
Bit in Refrig																							
Intercom																							
HO W/FAN																							
S.S. SINKS																							

## COMPUTATION

Appraiser & Date	Unit	Area	Unit Cost	Cost	RWS 67 2-73	NORMAL % GOOD			ESTIMATE		
						Unit Cost	Cost	%	Unit Cost	Cost	%
MAIN	1116	790	8.810	9600	10710						
C-CP	27	1.10	20	300	80						
C-UP ③	82	.60	50	490							
AC				300							
FP				1420	3.95	1900					
GAR	480	3.10	1488	850	2.80	1250					
SHOP	448	1.90	851	100		100					
FAT	600	.60	360	120		140	1.10	14040			
B.B.Q.				120		140	1.10	14040			
FENCE	250	.50	125	120		140	1.10	14040			
FENCE	90	1.60	144	120		140	1.10	14040			
TOTAL			12,720	15440	71						
NORMAL % GOOD			79	10970							
R.C.L.N.D			10,040	10970							
SBE-DAS AH 530A 3-54											



Structure	Found	Cons.	Est.	Notes	Floor	Int.	Size, etc.
GAR	CONC.	FR	STUCCO	SABLE WD. SH.	CONC.	UNF	20x24
SHOP	CONC.	FR	STUCCO	SHED CONC.	CONC.	UNF	16x28
FLAT	FLAG & CONC.						600'±
B-BQ	ROCK	- 3'x6'±		NO CHIMNEY			
FENCE	PST + WIRE			4'x500'± PARTIAL			250'±
FENCE	CROSS/FRAMED			2"x2"			90'±

CONSTITUTIONS	
Main	Chaps
$20 \times 3 = 60$	
$44 \times 24 = 1056$	$28 \times 16 = 448$
<u>1116</u>	

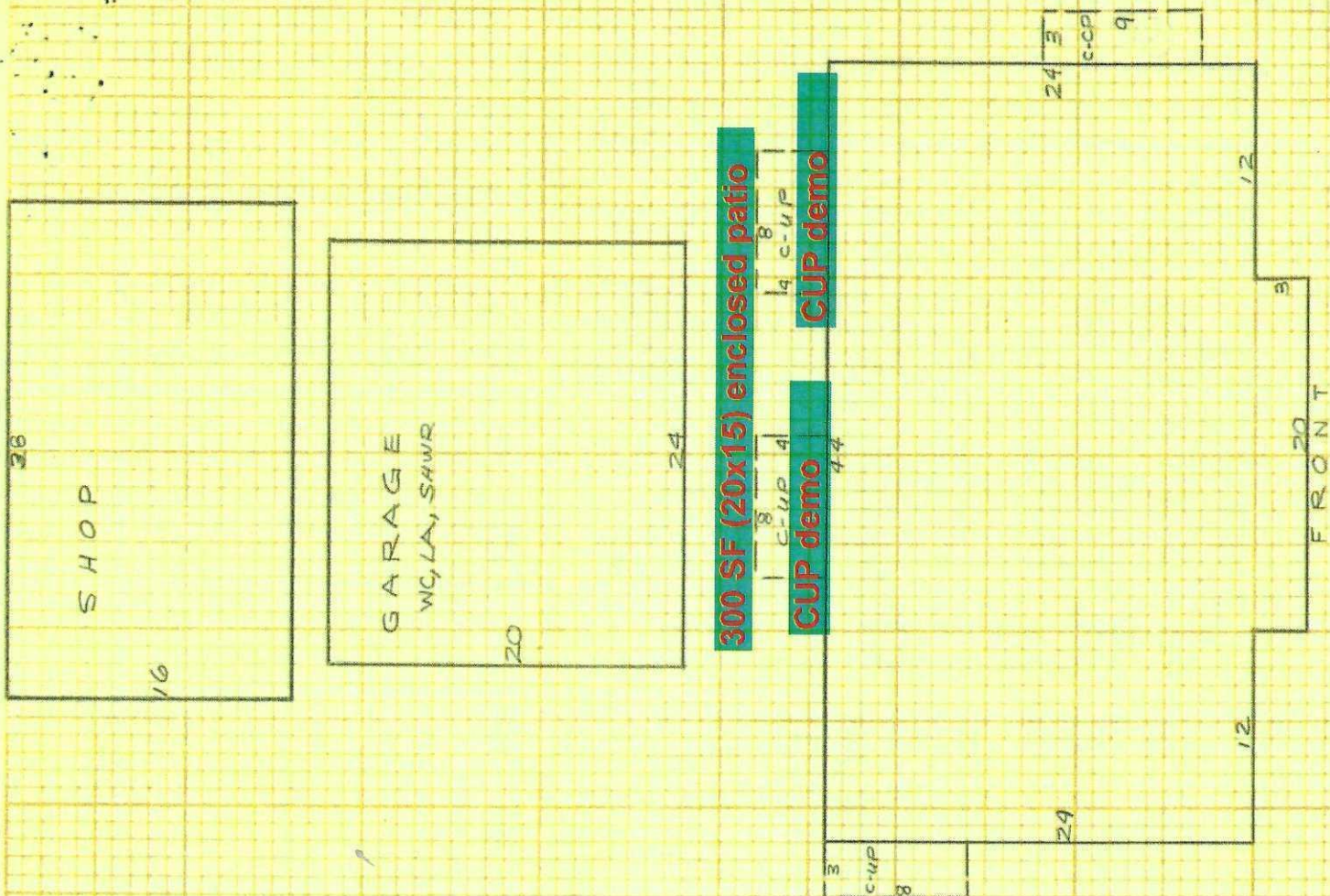
CLP.  
9 x 3 = 27

C. 11 P.  
 $2 \times 2 = 24$   
 $8 \times 4 = 32$   
 $8 \times 4 = 32$   
88

Page 24, 20 = 480

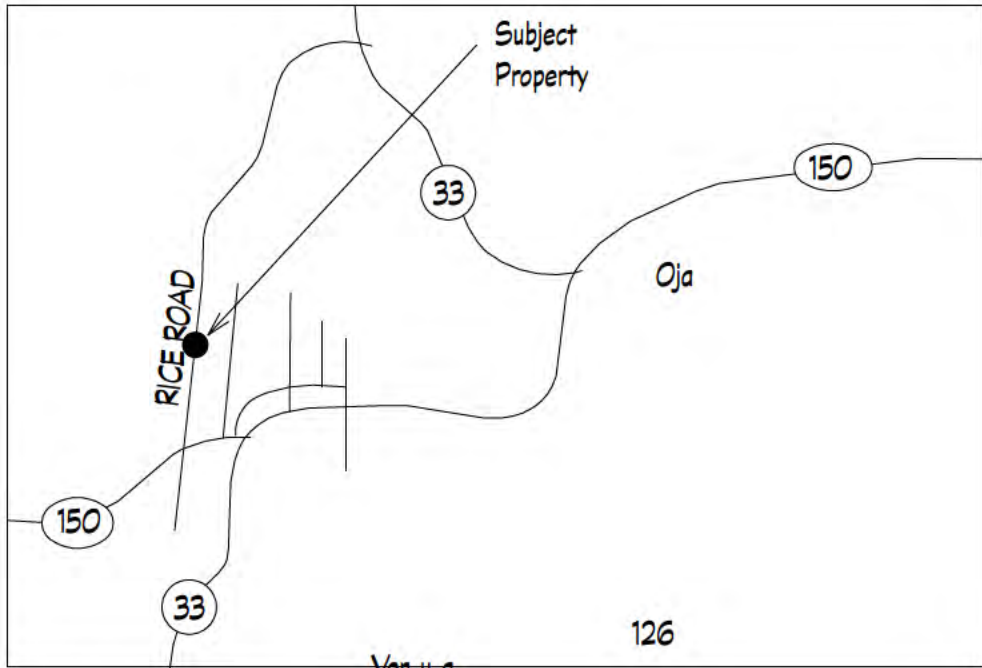
DATE	COMPUTED BY	CHECKED BY	ENTERED BY
9/14/11			

2-22-73 NO CHANGES, BATH INCLUDED  
IN GAR FACTOR RWS67

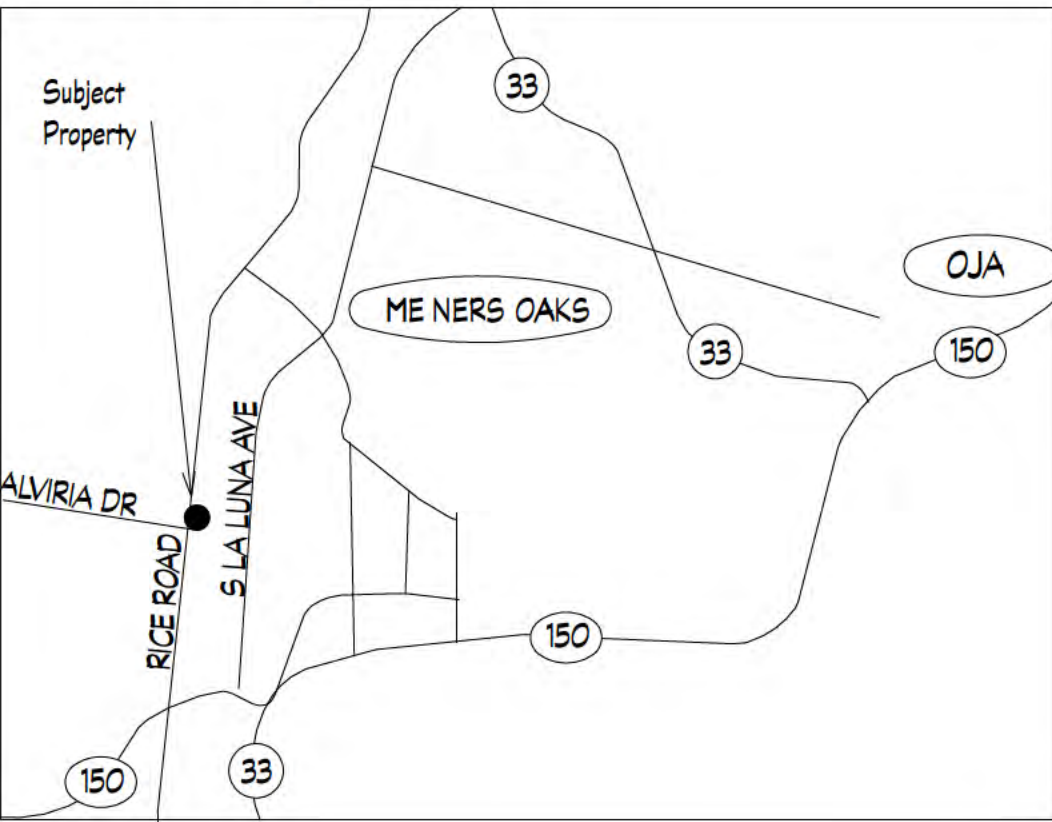




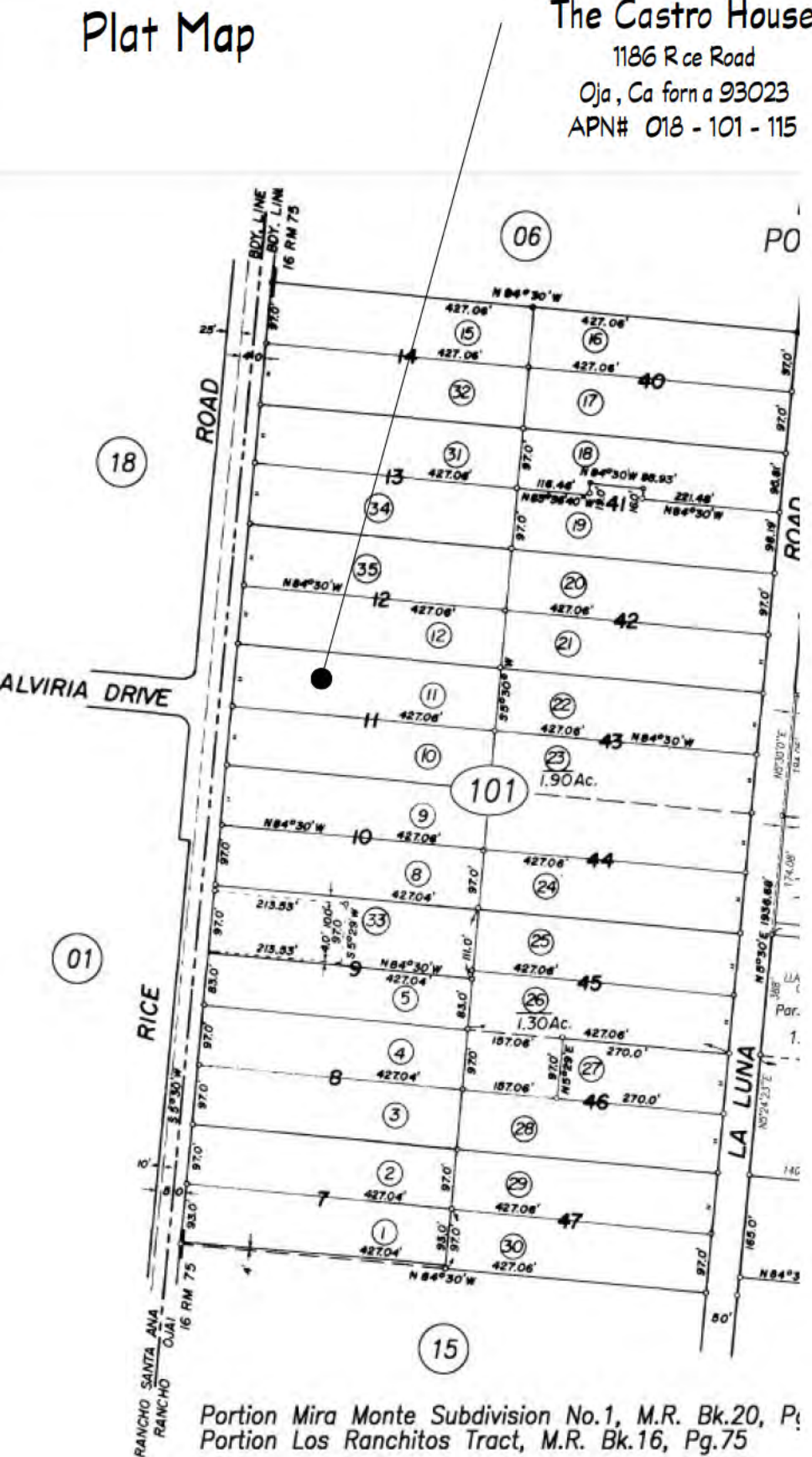
Vicinity Map



Local Map



Plat Map



The Castro House  
1186 Rice Road  
Oja, California 93023  
APN# 018 - 101 - 115

SCOPE

AFTER THE FACT PERMIT FOR CONVERSION OF GARAGE TO ADU AND AFTER THE FACT PERMIT FOR 240 SQ FT ADDITION TO ADU. DEMOLITION OF PATIO ENCLOSURE ATTACHED TO PRIMARY RESIDENCE AND INTERIOR REMODEL OF KITCHEN OF PRIMARY RESIDENCE.



The [REDACTED] House



PROJECT DESCRIPTION

LOT AREA:	1.07 ACRES	41,425 SF
APN:	018-0-101-115	
ZON NG:	RE-1	
OCCUPANCY:	R	
TYPE OF CONSTRUCTION:	V	
STOR ES:	1	
SPR NKLR S:	NO	
MAX. BLDG. HE GHT = 25'		
H GH FRE AREA - YES		
AREAS		
MA N HOUSE	1,116 SF	
PROPOSED ADU	720 SF (INCLUDING 240 SF ADD)	
SHED	439 SF	
PROPOSED SQUARE FOOTAGE	240 SF	
FOR ADDITION TO ADU		
LOT COVERAGE NCL. PROPOSED	41,425 / 22,775 = 5.5 %	

CONSULTANTS

DES GNER  
OT S BRADLEY COMPANY, NC.  
1673 DONLON STREET #202  
VENTURA, CA 93003  
310.963.7900

SHEET INDEX

A 01 PROJECT OVERV EW  
A 02 NOTES  
A 03 PLOT PLAN  
  
ARCH TECTURAL  
A 1.0 PROPOSED ADU & ELEVAT ONS  
A 2.0 EX MA N HOUSE & ELEVAT ONS

STRUCTURAL ENG NEER Not App cab e  
ENERGY Not App cab e  
SO LS ENG NEER Not App cab e  
SURVEYOR Not App cab e  
C V L ENG NEER Not App cab e  
WATER Not App cab e  
ARBOR ST Not App cab e

Dan Goodwin, County Assessor

Property Address: 1186 RICE RD OJAI CA 93023			
General Information			
Parcel # (APN):	018-0-101-115	Owner:	See Full Detail
Mailing Address:	1186 S RICE RD OJAI CA 93023	Legal Description:	RESID. SINGLE FAMILY
Use Type:	RESID. SINGLE FAMILY	Tax Rate Area:	079-044
Assessment			
Total Value:	\$303,289	Year Assd:	2022
Land:	\$258,513	Zoning:	See Full Detail
Structures:	\$103,476	Use Code:	See Full Detail
Other:		County Tax:	See Full Detail
% Improvements:	See Full Detail	Price/SqFt:	See Full Detail
Exempt Amt:	\$7,000		
HID Exempt:	Y		
Sale History			
Document Date:	06/02/2022	Document Number:	220081429
Transfer Amount:	See Full Detail	Seller (Grantor):	See Full Detail
Property Characteristics			
Bedrooms:	2	Fireplace:	See Full Detail
Baths (Full):	1	AVC:	See Full Detail
Baths (Half):		Heating:	See Full Detail
Total Rooms:	See Full Detail	Porch:	See Full Detail
Blgd/Liv Area:	1,116	Park Type:	See Full Detail
Lot Area:	0.950	Sqares:	See Full Detail
Lot SqFt:	41,425	Garage SqFt:	See Full Detail
Year Built:	1949		
Effective Year:			



OT S BRADLEY COMPANY, NC.  
1673 DONLON STREET  
VENTURA, CA 93003  
310.963.7900

Custom New Home  
&  
Remode ng Des gn

REVISION TABLE	REVISOR	DATE	DESCRIPTION

Ojai, California 93023  
APN# 018 - 0 - 101 - 115

DATE:

1/18/2023

SCALE:

SHEET:

A 0.1

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ELECTRICAL

SEE ALSO MANDATORY MEASURES SUMMARY MF - 1R ON T24 SHEET  
OWNER TO SELECT ALL PLUMBING AND ELECTRICAL FIXTURES AND MECHANICAL SUPPLY AND RETURN AIR GRILLS.  
ELECTRICIAN TO VERIFY ALL ELECTRICAL LOCATIONS WITH THE OWNER AND SET UP A WALK THROUGH.

INDOOR LIGHTING  
ALL LUMINAIRES INSTALLED IN LOW-RISE RESIDENTIAL CONSTRUCTION MUST BE HIGH EFFICACY.  
PERMANENTLY  
INSTALLED LUMINAIRES INCLUDE CEILING LUMINAIRES, CHANDELIERS, VANTY LAMPS, WALL  
SCONCES, UNDER  
CABINET LUMINAIRES, AND ANY OTHER TYPE OF LUMINAIRE THAT IS ATTACHED TO THE HOUSE.  
PERMANENTLY  
INSTALLED LUMINAIRES INCLUDE HARDWIRED OR PLUG-IN LUMINAIRES.

A "HIGH EFFICACY LUMINAIRE" IS ONE THAT MEETS THE EFFICACIES LISTED IN THE STANDARDS,  
CONTAINS  
ONLY HIGH EFFICACY LAMPS OR HIGH EFFICACY LED LIGHTING, AND DOES NOT CONTAIN A SOCKET  
WHICH  
ALLOWS ANY LOW EFFICACY LIGHTING SYSTEM TO BE USED. ANY LUMINAIRE CONTAINING A  
MEDIUM SCREW  
BASE SOCKET IS CLASSIFIED AS LOW EFFICACY, REGARDLESS OF THE TYPE OF LAMP INSTALLED IN  
THAT SOCKET.

THE DEFINITION OF "HIGH EFFICACY LUMINAIRE" HAS BEEN EXPANDED TO INCLUDE LIGHTING  
FIXED  
AS LINEAR FLUORESCENT, PIN-BASED COMPACT FLUORESCENT, GU-24 BASE CFL, HD, INDUCTOR  
LIGHTING, AND LUMINAIRES THAT CONTAIN A JAS COMPLAINT LAMP. SEE THE 2019 CALFORNIA  
ENERGY  
CODE, TABLE 150.0-A FOR A FULL LIST OF HIGH EFFICACY LUMINAIRES.

ALL PERMANENTLY INSTALLED LUMINAIRES WITH INTERCHANGEABLE LAMPS MUST CONTAIN LAMPS  
THAT  
COMPLY WITH THE REQUIREMENTS OF, AND BE MARKED AS, JAS-2019 HIGH EFFICACY LUMINAIRES.

LIGHT SOURCES MUST BE MARKED JAS-2016-E OR JAS-2019-E IF THEY ARE INSTALLED IN  
ENCLOSED OR  
RECESSED LUMINAIRES. AN ENCLOSED LUMINAIRE IS DEFINED AS HAVING VENTILATION OPENINGS OF  
3-  
SQUARE INCHES PER LAMP.

RECESSED DOWNLIGHT LUMINAIRES WITH SCREW-BASED SOCKETS ARE NOT ALLOWED BY THE  
2019  
CALFORNIA ENERGY CODE.

SCREW-BASED LUMINAIRES MUST COMPLY WITH EITHER JAS-2016 OR JAS-2019 REQUIREMENTS.  
ALL UNDER-CABINET LIGHTING MUST BE SWITCHED SEPARATELY FROM OTHER LIGHTING IN THE  
HOME. • NIGHT LIGHTS, STEP LIGHTS, AND PATH LIGHTS ARE NOT REQUIRED TO COMPLY WITH THE  
2019 CALFORNIA ENERGY CODE, TABLE 150.0-A, PROVIDED THEY ARE RATED TO CONSUME NO  
MORE THAN 5 WATTS OF POWER AND EMIT NO MORE THAN 150 LUMENS.

AIR CONDITIONING UNITS  
A. PROVIDE AIR CONDITIONING CONDENSER WITH SEISMIC STRAPPING ON 4 INCH MINIMUM  
CONCRETE SLAB 3 INCHES ABOVE GRADE.  
B. PROVIDE ONE WATERPROOF GFC OUTLET WITHIN 20 FEET OF UNIT WITH DISCONNECT SWITCH.

ELECTRICAL RECEPTACLES  
ELECTRICAL RECEPTACLES SHALL BE PLACED ON WALL SPACES 24 INCHES OR WIDER, NOT MORE  
THAN 6 FEET FROM OPENINGS, NOT MORE THAN 12 FEET ON CENTER, KITCHEN COUNTER SPACE  
OVER 12 INCHES WIDE, AT 4 FEET MAX OMAN CENTER AND WITHIN 24 INCHES OF AN APPLANCE.

GROUND FAULT CIRCUIT INTERRUPTER PROTECTION - GFC  
ALL 125 VOLT, 15 AND 20 AMP RECEPTACLES INSTALLED IN BATHROOMS, GARAGES, LAUNDRY  
ROOMS, OUTDOORS, CRAWL SPACE UNFINISHED BASEMENTS, KITCHEN COUNTERTOP SURFACE,  
WITHIN 6 FEET OF UTILITY, WET BAR SINKS OR BATHTUB/SHOWER STALLS KITCHEN DISHWASHER  
CIRCUIT AND LAUNDRY ROOMS SHALL BE PROTECTED BY A LISTED GROUND FAULT CIRCUIT  
INTERRUPTER. EXCEPT ON: SINGLE OUTLET RECEPTACLES IN GARAGES UTILIZED FOR A FIXED OR  
STATONARY APPLANCE

ARC-FAULT/BRANCH CIRCUIT PROTECTION - AFC  
ALL 120-VOLT, SINGLE PHASE 15 AND 20 AMPERE BRANCH CIRCUITS IN KITCHENS, FAMILY ROOMS,  
DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION  
ROOMS, CLOSETS, HALLWAYS, LAUNDRY ROOMS OR SMLAR ROOMS OR AREAS SHALL BE  
PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION-TYPE.

WATERPROOF GFC OUTDOOR RECEPTACLE  
PROVIDE A MINIMUM OF ONE WATERPROOF GFC OUTDOOR RECEPTACLE AT FRONT AND REAR OF  
STRUCTURE

UNLESS IN ACCORDANCE WITH CEC 210.12 (A) EXCEPT ON 1, 2, OR 3, ALL 120 VOLT, SINGLE PHASE, 15  
AND 20 AMP BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT FAMILY ROOM,  
DINING ROOM, LIVING ROOM, PARLOR, LIBRARY, DINING ROOM, BEDROOM, SUN ROOM, RECREATION ROOM,  
CLOSET, HALLWAY OR SMLAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT/  
BRANCH CIRCUIT INTERRUPTER, COMBINATION TYPE, INSTALLED TO PROVIDE PROTECTION OF THE  
BRANCH CIRCUIT.

ALL NON-LOCKING TYPE 125-VOLT, 15 AND 20 AMP RECEPTACLES IN A DWELLING UNIT SHALL BE  
LISTED TAMPER RESISTANT RECEPTACLES EXCEPT ON: (1) RECEPTACLES MORE THAN 5'-6" ABOVE  
THE FLOOR (2) RECEPTACLES PART OF A LUMINAIRE OR APPLANCE (3) A SINGLE RECEPTACLE OR A  
DUPLEX RECEPTACLE FOR TWO APPLANCES THAT ARE NOT EASILY MOVED AND RECEPTACLES  
USED FOR REPLACEMENTS AS PERMITTED IN CEC 406.4-D 2A

SMOKE DETECTORS AND CARBON  
MONOXIDE ALARMS

SMOKE DETECTORS  
PROVIDE 120 VOLT, HARDWIRED, INTERCONNECTED SMOKE DETECTORS (WITH 10 YEAR  
BATTERY BACKUP):  
A ON THE WALL OR CEILING CENTRALLY LOCATED IN THE AREASAVING ACCESS TO  
SLEEPING ROOM(S) AND WITHIN SLEEPING ROOM(S)  
B ON THE CEILING IN CLOSE PROXIMITY TO THE STAIRWAY OF THE UPPER LEVEL  
C WHERE CEILING HEIGHT OF AN ADJACENT ROOM OPENS TO A HALLWAY SERVING  
BEDROOMS EXCEEDS THAT OF THE HALLWAY BY 24 INCHES OR MORE, DETECTOR SHALL  
BE PLACED IN THE ADJACENT ROOM AND WITHIN 12 INCHES OF THE HIGHEST POINT OF  
THE CEILING.  
D IN THE BASEMENT, WITH ALARM AUDIBLE AND SLEEPING ROOM(S).  
E WHEN ADDITION OR ALTERATION VALUATION EXCEEDS \$1000 SMOKE DETECTORS ARE  
REQUIRED IN AREAS PROVIDING ACCESS TO EXISTING SLEEPING ROOMS AND WITHIN  
SLEEPING ROOMS. THESE MAY BE BATTERY OPERATED ONLY SEE PLAN AND LEGEND  
FOR LOCATIONS.

CARBON MONOXIDE ALARMS  
A REQUIRED OUTSIDE OF EACH SLEEPING AREA  
B ON EVERY LEVEL OF DWELLING  
C HARDWIRED WITH 10 YEAR BATTERY BACKUP  
D INTERCONNECTED

MECHANICAL

FANS  
A BATHROOM FANS WITH 4 INCH DUCTS MAXIMUM LENGTH WITH NO ELBOWS IS 70 INCHES  
SUBTRACT 15 INCHES PER ELBOW.  
B FANS SHALL BE PANASONIC "WHISPER" SERIES  
C EXHAUST FANS SHALL BE SWITCHED SEPARATELY FROM LIGHTING SYSTEMS WITH THER

EXHAUST FANS  
BATHROOM FANS WITH 4 INCH DUCTS - MAXIMUM LENGTH WITH NO ELBOWS IS 70 INCHES  
SUBTRACT 15 INCHES PER ELBOW.  
FANS SHALL BE PANASONIC "WHISPER" SERIES  
EXHAUST FANS SHALL BE SWITCHED SEPARATELY FROM LIGHTING SYSTEMS  
FAN CAPACITIES  
BATHROOM 50 CFM  
TOILET ROOMS 50 CFM  
KITCHEN 100 CFM

DRYER VENT  
DRYER SHALL BE VENTED TO THE OUTSIDE (W/ BACK DRAFT DAMPER). THE MAXIMUM  
LENGTH SHALL BE 14 FEET WITH TWO 90-DEGREE ELBOWS. MIN. 4 INCH DIAMETER,  
SMOOTH METAL DUCT..

PLUMBING

WATER USAGE  
PLUMBING FIXTURES SHALL HAVE THE FOLLOWING MAXIMUM WATER USAGES :  
(a) TANK TYPE TOILETS SHALL HAVE A MAXIMUM FLUSH OF 1.28 GALLONS PER FLUSH.  
(b) WATER SAVING SHOWER HEADS SHALL HAVE A MAXIMUM FLOW OF 2.0 GALLONS PER  
MINUTE.  
(c) WATER SAVING SINK AND LAVATORY FAUCETS SHALL HAVE A MAXIMUM FLOW OF 1.5  
GALLONS PER MINUTE.  
(d) URINALS SHALL HAVE A MAXIMUM FLUSH OF 1.0 GALLONS PER FLUSH.

ROOM ADDITIONS  
ROOM ADDITIONS THAT INCLUDE NEW PLUMBING FIXTURES SHALL RETROFIT ALL  
EXISTING FIXTURES TO THE NEW WATER-EFFICIENT FIXTURES.

COPPER LINES  
COPPER WATER LINES SHALL BE TYPE "L" MINIMUM. REAM ALL COPPER LINES TO FULL .ID.

WATER CLOSET SPACE  
PROVIDE A MINIMUM WATER CLOSET SPACE OF 30 INCHES WIDE AND 24 INCHES CLEAR IN  
FRONT OF WATER CLOSET.

HOSE BIBBS  
HOSE BIBBS SHALL BE FITTED WITH A NON-REMOVABLE BACKFLOW DEVICE.

PRESSURE REGULATOR  
PROVIDE A PRESSURE REGULATOR ON WATER SERVICE IF THE PRESSURE EXCEEDS 60 psi.

BATHTUB TRAP  
PROVIDE A PERMANENTLY ACCESSIBLE 12-INCH SQUARE BATHTUB TRAP ACCESS OR  
PROVIDE A NON-SLIP JOINT TRAP AS LARGE AS MOTOR AT JACUZZI TUBS.

TUB AND SHOWER ENCLOSURES:  
1. TUB AND SHOWER ENCLOSURES SHALL BE TEMPERED GLASS OR AN APPROVED PLASTIC.  
2. GLASS ENCLOSURE DOORS AND PANELS MUST BE LABELED CATEGORY 1 SWING DOOR  
OUTWARD.  
3. NET AREA OF SHOWER RECEPTOR SHALL NOT BE LESS THAN 1,024 SQ. IN. OF FLOOR  
AREA, AND ENCOMPASS 30 INCH DIAMETER CIRCLE.  
4. SHOWER WALLS SHALL BE CEMENT PLASTER, TILE, OR APPROVED MATERIAL TO 70 INCHES  
ABOVE DRAIN AT SHOWER OR TUBS WITH SHOWER.  
5. MATERIALS OTHER THAN STRUCTURAL ELEMENTS SHALL BE MOISTURE RESISTANT.

SHOWERS AND TUB-SHOWER COMBINATIONS  
SHOWERS AND TUB-SHOWER COMBINATIONS SHALL BE PROVIDED WITH INDIVIDUAL  
CONTROL VALVES OF THE PRESSURE BALANCE OR THERMOSTAT MIXING VALVE TYPE. HOT  
WATER SHALL BE DELIVERED AT A MAXIMUM TEMPERATURE OF 120°F.

MISCELLANEOUS NOTES

SLEEPING ROOMS:  
PROVIDE AN EMERGENCY EXIT DOOR OR WINDOW FROM BASEMENT AND/OR SLEEPING  
ROOM(S). NET CLEAR WINDOW OPENING AREA SHALL BE NOT LESS THAN 5.7 SQ. FT.  
(EXCEPT AT GRADE FLOOR OPENING SHALL BE MINIMUM 5.0 SQ. FT.). MIN. NET WINDOW  
OPENING HEIGHT MINIMUM ON, 24" CLEAR; MIN. NET OPENING WIDTH MINIMUM ON, 20"  
CLEAR. FINISHED SILL HEIGHT SHALL BE A MAXIMUM 44" ABOVE THE FLOOR.

HALLS:  
HALLWAY WIDTH SHALL BE NOT LESS THAN 36". CBC 1017.2

SPARK ARRESTERS  
THE CHIMNEY SHALL BE EQUIPPED WITH A SPARK ARRESTER. THE NET FREE AREA OF THE  
SPARK ARRESTER SHALL NOT BE LESS THAN FOUR TIMES THE NET FREE AREA OF THE  
OUTLET OF THE CHIMNEY. THE SPARK ARRESTER SCREEN SHALL BE CORROSION  
RESISTANT AND SHALL HAVE OPENINGS LESS THAN 1/2 INCH AND GREATER THAN  
3/8" IN SIZE.

STAIRS  
RISER TO BE 4" MINIMUM, 7 3/4" MAXIMUM  
TREADS TO BE 10" MINIMUM - WIDTH 36" MINIMUM - PROVIDE 6'-8" MINIMUM HEADROOM CLEARANCE  
ABOVE NOSE OF TREAD  
SEE LANDSCAPE PLANS FOR EXTERIOR STAIRS

LANDINGS  
FLOORS OR LANDINGS SHALL NOT BE MORE THAN 1/2" LOWER THAN THE THRESHOLD WHEN DOORS  
SWING OUTWARD. PROVIDE A MINIMUM LANDING OF 36" IN DEPTH AT ALL EXTERIOR OPENINGS

STUCCO SCREED  
PROVIDE A CORROSION-RESISTANT WEAP SCREED BELOW THE STUCCO  
A MINIMUM OF 4" ABOVE GRADE AND 2" ABOVE A SLAB.

CALFORNIA GREEN BUILDING CODE 2016 EDITED

MAINTENANCE  
ANNULAR SPACES AROUND PIPES, ELECTRICAL CABLES, CONDUITS OR OTHER OPENINGS IN PLATES AT  
EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH  
OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY OR SIMILAR METHOD ACCEPTABLE TO BE  
ENFORCING THE AGENCY.

WASTE REDUCTION DISPOSAL AND RECYCLING  
RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 50% OF THE NON HAZARDOUS CONSTRUCTION AND  
DEMOLITION WASTE IN ACCORDANCE WITH ONE OF THE FOLLOWING:  
1. COMPLY WITH A MORE STRINGENT LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT  
ORDINANCE; OR  
2. A CONSTRUCTION WASTE MANAGEMENT COMPANY, PER SECTION 4.408.2; OR  
3. EIGHT WASTE MANAGEMENT COMPANY, PER SECTION 4.408.3; OR  
4. THE WASTE STREAM REDUCTION ALTERNATIVE, PER SECTION 4.408.4.

BUILDING MAINTENANCE AND OPERATION  
AN OPERATIONAL MAINTENANCE MANUAL SHALL BE PROVIDED TO THE BUILDING OCCUPANT OR  
OWNER.

POLLUTANT CONTROL  
A) 4.504.1 DUCT OPENINGS AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE  
COVERED DURING CONSTRUCTION.  
B) 4.504.2.1 ADHESIVES, SEALANTS AND CAULKS SHALL BE COMPLIANT WITH VOC AND OTHER TOXIC  
COMPOUND LIMITS.  
C) 4.504.2.2 PAINTS, STAINS, AND OTHER COATINGS SHALL BE COMPLIANT WITH VOC LIMITS.  
D) 4.504.2.3 AEROSOL PAINTS AND COATINGS SHALL BE COMPLIANT WITH PRODUCTS WEIGHTED MRL  
LIMITS FOR ROOF AND OTHER TOXIC COMPOUNDS.  
E) 4.504.2.4 DOCUMENTATION ON SHALL BE PROVIDED TO VERIFY THAT COMPLIANT VOC LIMIT FINISH  
MATERIALS HAVE BEEN USED.  
F) 4.504.3 CARPET AND CARPET SYSTEMS SHALL BE COMPLIANT WITH THE VOC LIMITS.  
G) 4.504.4 80% OF FLOOR AREA RECEIVING RESIDENT FLOORING SHALL COMPLY WITH THE VOC  
EMISSION LIMITS DEFINED IN THE COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CHPS) HIGH  
PERFORMANCE CAULKS DATABASE OR BE CERTIFIED UNDER THE RESIDENT FLOOR COVERING  
TEST (RFC) FLOORSCORE PROGRAM; OR MEET CALFORNIA DEPT OF PUBLIC HEALTH, "STANDARD  
METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM  
INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS", VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN  
AS SPECIFICATION ON 01350).  
H) 4.504.5 PARTICLEBOARD, MEDIUM DENSITY FIBERBOARD (MDF) AND HARDWOOD PLYWOOD USED IN  
INTERIOR FINISH SYSTEMS SHALL COMPLY WITH LOW FORMALDEHYDE EMISSION STANDARDS.

INTERIOR MOISTURE CONTROL  
A) 4.505.2 VAPOR RETARDER AND CAPILLARY BREAK IS INSTALLED AT SLAB ON GRADE FOUNDATIONS.  
B) 4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS USED IN WALL AND FLOOR FRAMING IS  
CHECKED BEFORE ALL ENCLOSURE.

ENVIRONMENTAL COMFORT  
DUCT SYSTEMS ARE SIZED, DESIGNED, AND EQUIPMENT IS SELECTED USING THE FOLLOWING METHODS:  
1. ESTABLISH HEAT LOSS AND HEAT GAIN VALUES ACCORDING TO ANSI/ACCA 2 MANUAL J -2004 OR  
EQUIVALENT.  
2. SIZE DUCT SYSTEMS ACCORDING TO ANSI/ACCA 1 MANUAL D -2009 OR EQUIVALENT.  
3. SELECT HEATING AND COOLING EQUIPMENT ACCORDING TO ANSI/ACCA 3 MANUAL S - 2004 OR  
EQUIVALENT.

QUALIFICATION AND VERIFICATION  
A) 702.1 HVAC SYSTEM INSTALLERS ARE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC  
SYSTEMS.  
B) 702.2 SPECIAL INSPECTORS EMPLOYED BY THE ENFORCING AGENCY MUST BE QUALIFIED AND ABLE  
TO DEMONSTRATE COMPETENCE IN THE DISCIPLINE THEY ARE INSPECTING.  
C) 703.1 VERIFICATION OF COMPLIANCE WITH THIS CODE MAY INCLUDE CONSTRUCTION DOCUMENTS,  
PLANS, SPECIFICATION BUILDING OR INSTALLER CERTIFICATION, INSPECTION REPORTS, OR OTHER  
METHODS ACCEPTABLE TO THE ENFORCING THE AGENCY WHICH SHOWS SUBSTANTIAL  
CONFORMANCE.

GENERAL NOTES  
DESIGN SHALL COMPLY WITH THE 2016 CRC, CMC, CPC, CEC, CIBC, CIBSC AS  
AMENDED BY CITY ORDINANCE AND THE 2016 TITLE 24 ENERGY REGULATIONS

1. CODES  
ALL CONSTRUCTION, INCLUDING MATERIAL AND WORKMANSHIP, SHALL CONFORM TO  
THE PROVISIONS OF THE FOLLOWING CODES:  
2019 EDITED OF THE "CALFORNIA RESIDENTIAL CODE" (CRC)  
2019 CALFORNIA PLUMBING CODE (CPC)  
2019 CALFORNIA MECHANICAL CODE (CMC)  
2019 CALFORNIA ELECTRICAL CODE (CEC)  
WITH THE GOVERNING AGENCY AMENDMENTS, AND STANDARDS REFERENCED  
THEREIN. WHEREVER CODE OR CALFORNIA BUILDING CODE (CBC) IS REFERENCED IN  
THE FOLLOWING GENERAL NOTES OR OTHER NOTE SECTIONS, IT SHALL IMPLY THE  
CBC CODE WITH GOVERNING AGENCY AMENDMENTS.

2019 TITLE 24 - PLANS SHALL COMPLY WITH TITLE 24 ENERGY EFFICIENCY  
REQUIREMENTS AND ALL MANDATORY MEASURES

2. ALL ASTM STANDARDS LISTED HEREIN, SHALL BE AS REFERENCED IN THE LATEST  
ISSUE OF THE ANNUAL BOOK OF STANDARDS OF THE AMERICAN SOCIETY FOR  
TESTING AND MATERIALS.

3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE  
CONDITIONS BEFORE STARTING WORK. THE DESIGNER AND STRUCTURAL ENGINEER  
SHALL IMMEDIATELY BE NOTIFIED, IN WRITING, OF ANY DISCREPANCIES.

4. ALL DIMENSIONS AND/OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE  
WORKING DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF  
THE FIELD INSPECTOR, AND A SOLUTION GIVEN BY THE DESIGNER AND  
STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH ANY WORK AFFECTED BY THE  
CONFLICT OR DIMENSIONS.

5. IN CASE OF CONFLICT, NOTES AND DETAILS OF THESE STRUCTURAL DRAWINGS  
SHALL TAKE PRECEDENCE OVER THE "GENERAL NOTES" AND/OR "STANDARD DETAILS".  
TYPICAL DETAILS SHALL BE USED WHENEVER APPLICABLE.

6. IF A SPECIFIC DETAIL IS NOT SHOWN FOR ANY PART OF THE WORK, THE  
CONSTRUCTION SHALL BE THE SAME AS FOR SIMILAR WORK.

7. WORKING DIMENSIONS SHALL NOT BE SCALED FROM PLANS, SECTIONS OR  
DETAILS ON THESE STRUCTURAL DRAWINGS.

8. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE ERECTION SHORING  
AND BRACING AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES  
OF CONSTRUCTION. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE AND  
DO NOT INDICATE THE METHOD OF CONSTRUCTION.

9. PIPES, DUCTS, SLEEVES, OPENINGS, POCKETS, CHASES, BLOCK-OUTS, ETC., SHALL  
NOT BE PLACED IN SLABS, BEAMS, GIRDERS, COLUMNS, WALLS, FOUNDATIONS, ETC.,  
NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR SUCH ITEMS, UNLESS  
SPECIFICALLY DETAILLED ON THESE STRUCTURAL DRAWINGS. (IF ANY PIPES,  
DUCTS, ETC., DO OCCUR, THAT ARE NOT SHOWN ON THESE STRUCTURAL DRAWINGS,  
THE DESIGNER AND STRUCTURAL ENGINEER SHALL BE NOTIFIED.) SEE PARAGRAPH 4,  
ABOVE.

10. ANCHOR BOLTS OR INSERTS FOR EQUIPMENT ANCHORAGE OR INSTALLATION  
SHALL BE DESIGNED FOR SEISMIC ZONE 4 BY A CIVIL ENGINEER OR STRUCTURAL  
ENGINEER REGISTERED IN THE STATE OF CALIFORNIA AND SHALL BE SHOWN ON THE  
MECHANICAL OR ELECTRICAL SHOP DRAWINGS.

11. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR  
JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT,  
INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL  
APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE  
CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE DESIGNER AND THE  
STRUCTURAL ENGINEER FREE AND HARMLESS FROM ALL CLAIMS, DEMANDS AND ALL  
LIABILITIES, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON  
THIS PROJECT, EXCEPT FOR LIABILITIES ARISING FROM THE SOLE NEGLIGENCE OF THE  
DESIGNER OR THE STRUCTURAL ENGINEER.

12. IF ANY SUBSTITUTION IS PROPOSED BY THE CONTRACTOR, NEW CALCULATIONS  
MAY HAVE TO BE PREPARED, THE DETAILS MAY HAVE TO BE ALTERED, AND NEW  
DRAWINGS MAY HAVE TO BE SUBMITTED TO THE BUILDING DEPARTMENT. THE  
CONTRACTOR SHALL PAY THE STRUCTURAL ENGINEER'S FEES TO ALTER THE  
APPROVED PLANS. THE CONTRACTOR SHALL ALSO PROCESS THE REVISED PLANS  
REFLECTING ALL SUBSTITUTIONS THROUGH THE APPROPRIATE OFFICE OF ALL  
GOVERNING AGENCIES.

13. ADDRESS:  
1. THE ADDRESS SHALL BE VISIBLE AND LEGIBLE FROM THE STREET OR  
FRONTAGE ROAD.  
2. THE ADDRESS NUMBERS SHALL BE A MINIMUM OF FOUR INCHES [4"] IN HEIGHT.  
3. THE ADDRESS NUMBERS SHALL BE OF A CONTRASTING COLOR TO THE R  
BACKGROUND.  
BRASS OR GOLD NUMBERS SHALL NOT BE POSTED. ADDRESS NUMBERS ON  
CURBS ARE NOT ACCEPTABLE.  
4. PERMANENT ADDRESS NUMBERS SHALL BE PROVIDED ON THE MAIL BOX OR  
ON A PERMANENT SIGN OR POST ADJACENT TO THE DRIVEWAY ENTRANCE OF A  
FLAG LOT.

14. PERMITS:  
A SEPARATE PERMIT IS REQUIRED FOR ELECTRICAL, PLUMBING AND MECHANICAL AS  
APPLICABLE.

ABBREVIATIONS

£	And	MAX	Maximum
∠	Angle	MECH	Mechanical
@	At	MISC	Miscellaneous
⊕	Centerline	MET	Metal
⌀	Channel	M/C	Medicine cabinet
⌀	Diameter	MFR	Manufacturer
⌀	Foot, Feet	MIR	Mirror
⌀	Inch	MIN	Minimum
%	Percent	MLDG	Moulding
⌀	Pound, Number	MTG	Mounting
⌀	Diameter	MTD	Mounted
		MUL	Mullion
		MTL	Material
A/C	Air Conditioning		
AB	Anchor Bolt	NOM	Nominal
ADJ	Adjustable	NO or #	Number
AFF	Above Finished Floor	NC	Not In Contact
AL	Aluminum	NTS	Not to Scale
ALT	Alternate		
APPROX	Approximate	OPP	Opposite
ARCH	Architectural	OFF	Office
AND	And/or	OCFI	Owner Furnished - Contractor Installed
ACCU	Air Cooled Condensing Unit	OCFI	Owner Furnished - Owner Installed
		OC	On Center
BM	Beam	OVHD	Overhead
BLK	Block	OA	Overall
BLDG	Building		
BCT	Bottom	PNL	Panel
BD	Board	PR	Pair
BTW	Between	PREFAB	Prefabricate
BLDG	Building	PREP	Preparation
BITUM	Bituminous	PROP	Property
BW	Bottom of Wall	PT	Point
CB	Cabinet	PLYWD	Plywood
CEM	Cement	PLAS	Plaster
CBB	Cement Backer Bd.	PL	Plate or Property
CBU	Cement Backer Unit		
CLG	Celling	PLM	Plastic Laminate
CLR	Clear	PTD	Painted
CT	Ceramic Tile		
CHU	Concrete Masonry Units	RM	Room
COL	Column	RWD	Redwood
CONSTR	Construction	RO	Rough Opening
CONT	Continuous	R/F	Refrigerator/Freezer
CONC	Concrete	REV	Revised/Revision
CONN	Connection	REQD	Required
COND	Condition	RESIL	Resilient
CONTR	Contractor	REINF	Reinforced or
COORD	Coordinate		
CTR	Center	REFR	Refrigerator
CJ	Control Joint	REC	Recessed
		RD	Roof Drain
D	Deep, Depth, Dryer	RB	Resilient Base
DEMO	Demolition	RAD	Radius
DBL	Double	REF	Reference
DEPT	Department	R	Riser
DETT	Detail		
DIA	Diameter	SHTG	Sheathing
DM	Dimension	SL	Slope
DW	Dishwasher	SLDG	Sliding
DN	Down	SIM	Similar
DR	Door		
(D)	Demolish, Demolition	SCHED	Schedule
DWG	Drawing	SECT	Section
DWR	Drower	SQ	Square
		SPKR	Speaker
EA	Each	SPEC	Specification
E	East	SHT	Sheet
EL	Elevation	SH	Shelf
ELEC	Electrical	SH	Shelf
EW	Each way	SF	Square Foot
EQ	Equal	SC	Scale or Solid Core
EQPT	Equipment	STD	Standard
EXT	Existing	SYS	System
EX	Existing	SYM	Symmetrical
EXT	Exterior	SVC	Service
EFS	Exterior Finish System	SUSP	Suspended
EJ	Expansion Joint	STRUC	Structure
EXP	Expansion	STR	Structural
		STOR	Storage
FCU	Fan Coil Unit	STN	Stain
FL	Floor	SS	Stainless Steel
FLASH	Flashing	SD	Smoke Detector
FLUOR	Fluorescent	ST	Stone Tile
FIN	Finish	ST	Start Point
FRT	Fixture	SSD	See Structural
FOF	Face of Finish	DRAWINGS	
FT	Foot or Feet	SG	Safety Glass
FURR	Furring or Furred		
POS	Face of Stud,	TEL	Telephone
	Face of Structure	TEMP	Tempered
FR	Fire Rated	T & G	Tongue and Groove
FRZ	Freezer	THK	Thick or Thickness
		THR	Threshold
GA	Gauge	THRU	Through
GALV	Galvanized	T&B	Top & Bottom
GL	Glass	TJ	Truss Joist
GMU	Glassmash Mortar Unit	TRD	Tread
GWB	Gypsum Wall Board	TV	Television
GYP	Gypsum	TYP	Typical
		TW	Top of Wall
H	High or Height		
HC	Hollow Core	UON	Unless Otherwise
HD	Head		Noted
HR	Hour		
HOWD	Hardwood	VERT	Vertical
HOZ	Horizontal	VTR	Vent Through Roof
HDWE	Hardware	VF	Verify in Field
IN	Inch	WD	Wood
INCL	Inclusive, Included or Including	WDW	Window
		W	With
INSUL	Insulation	WC	Water Closet
INT	Interior		
IMP PLS	Imperial Plaster	W	Wide, Width, West
JB	Junction Box	WO	Where Occurs
JT	Joint	WO	Without
JST	Joist	WP	Waterproof
		WR	Water Resistant
LF	Linear Foot	WT	Weight
L	Length or Long	WM	Water Meter
LAM	Laminate or Laminated		
LAV	Lavatory		
LB	Pound		

Custom New Home  
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Remodeling Design

NUMBER	DATE	REVISION TABLE			
		REVISION	DATE	BY	DESCRIPTION

1186 Rice Road  
Ojai, California 93023  
APN# 018 - 0 - 101 - 115

DATE:

1/18/2023

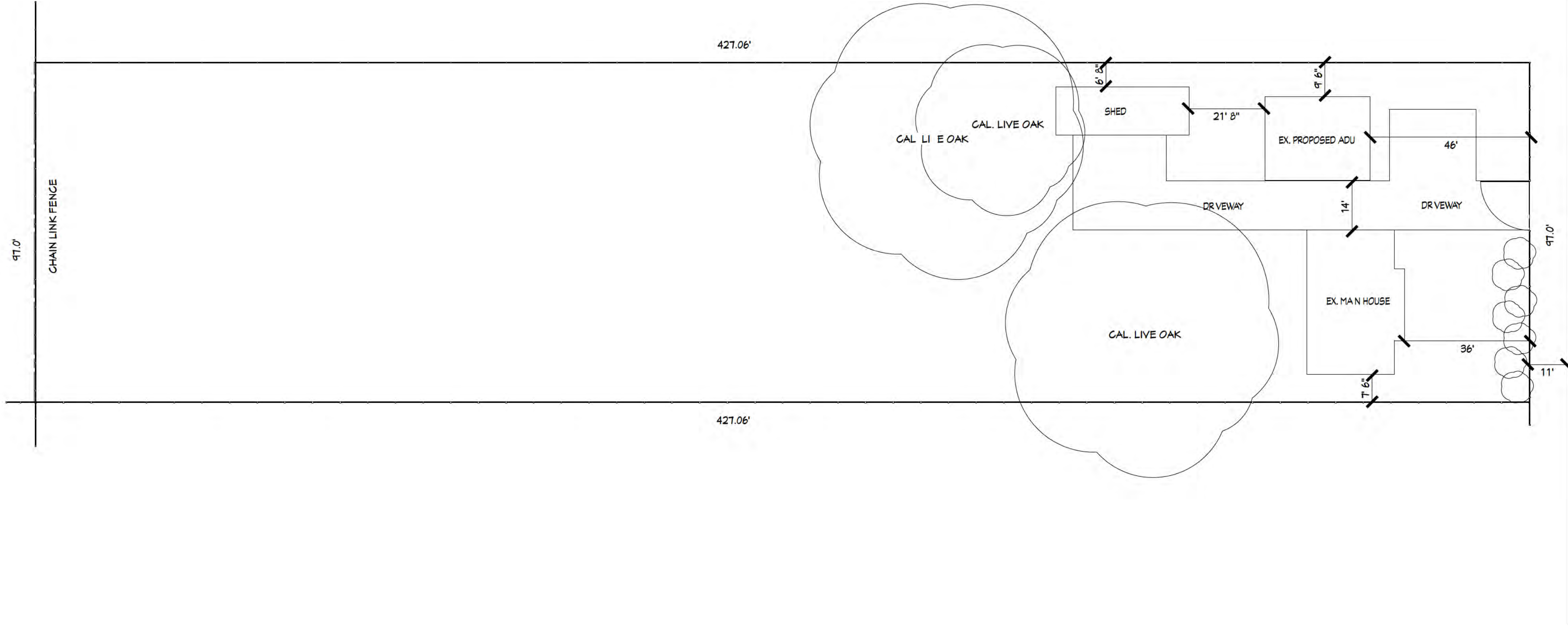
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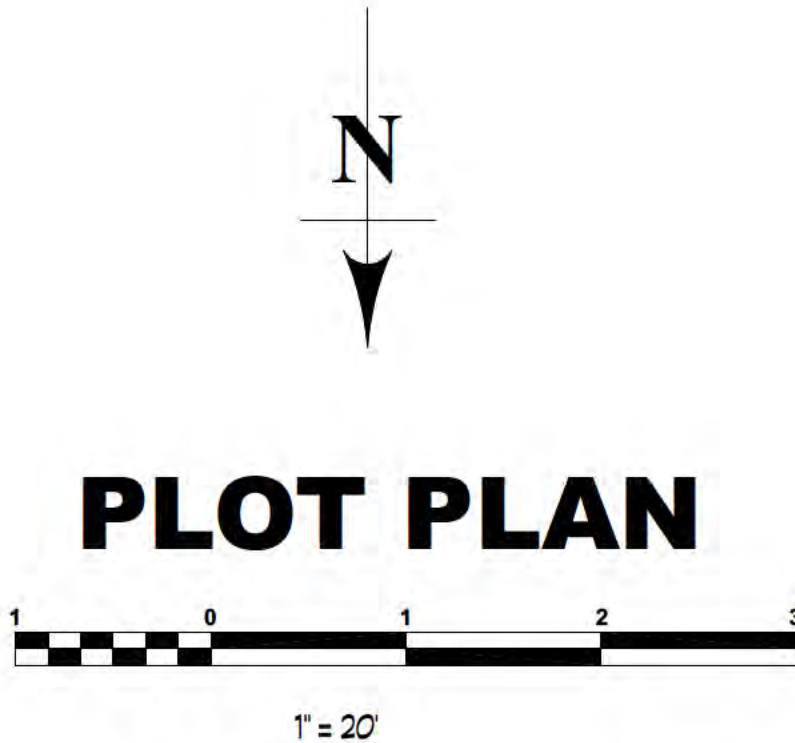
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NOTES  
POLLUTANTS  
THE DISCHARGE OF POLLUTANTS TO ANY STORM DRAINAGE SYSTEM IS PROHIBITED. NO SOLID WASTE, PETROLEUM BYPRODUCTS, SOLID PARTICULATE, CONSTRUCTION WASTE MATERIALS, OR WASTEWATER GENERATED ON CONSTRUCTION SITES OR BY CONSTRUCTION ACTIVITIES SHALL BE PLACED, CONVEYED OR DISCHARGED INTO THE STREET, GUTTER OR STORM DRAIN SYSTEM.



PLOT PLAN



OTIS BRADLEY COMPANY, INC.  
1673 Donon Street  
Ventura, CA 93003  
310 963 7900

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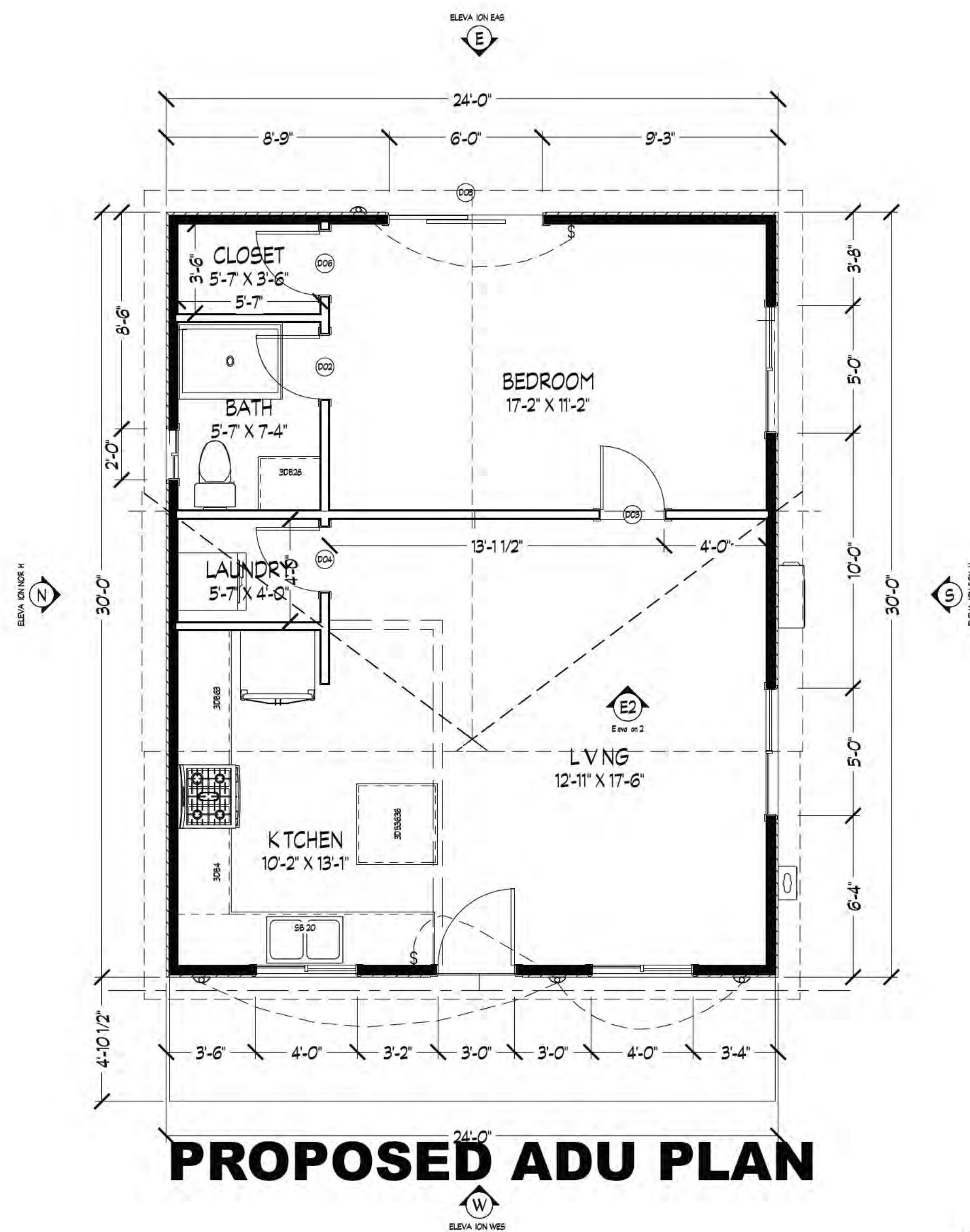
REVISION TABLE		DESCRIPTION
NUMBER	DATE	REVIS

1186 Rice Road  
Ojai, California 93023  
APN# 018 - 0 - 101 - 115

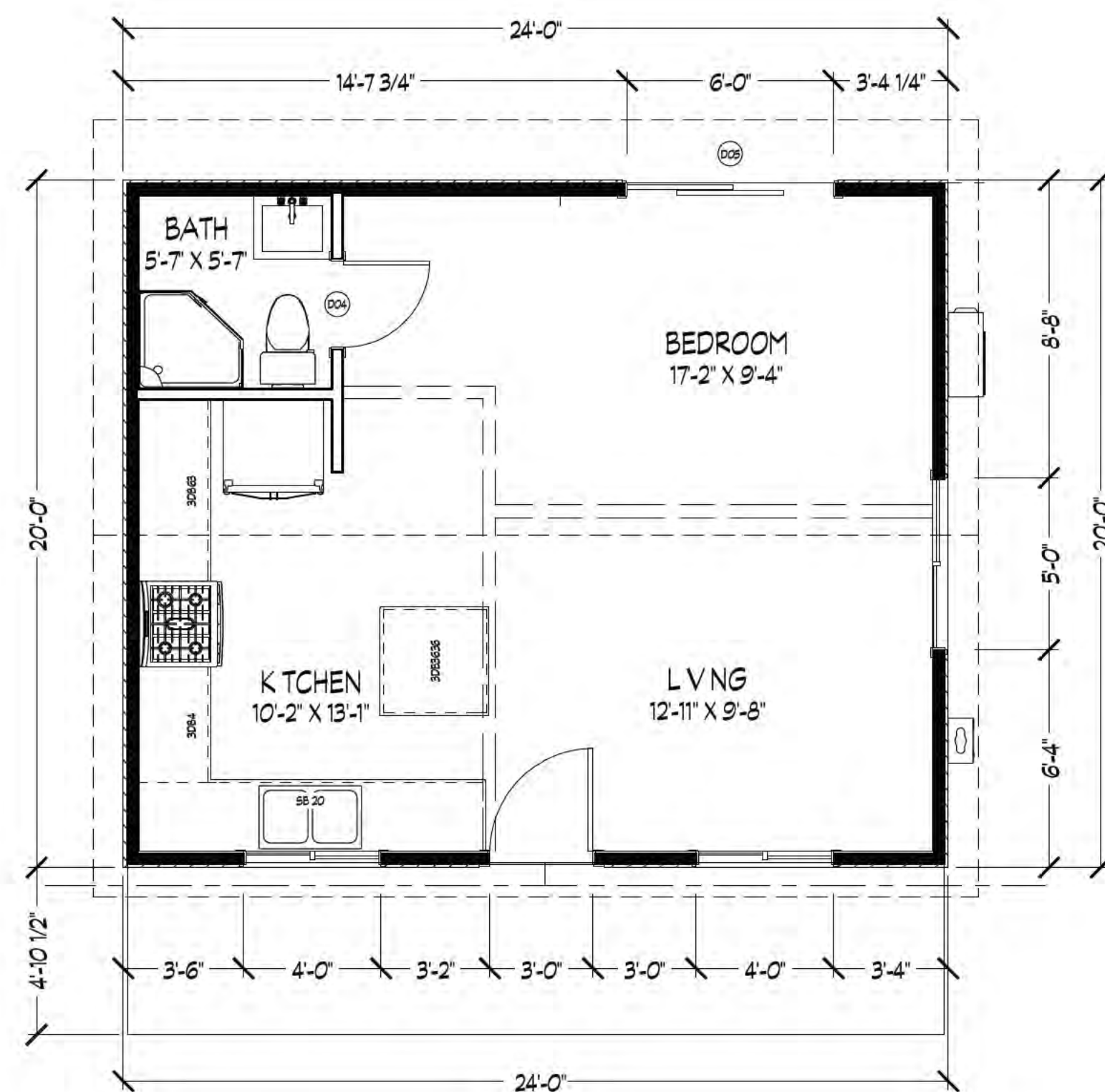
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SHEET:	A 0.3

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PROPOSED ADU PLAN



AS BUILT ADU

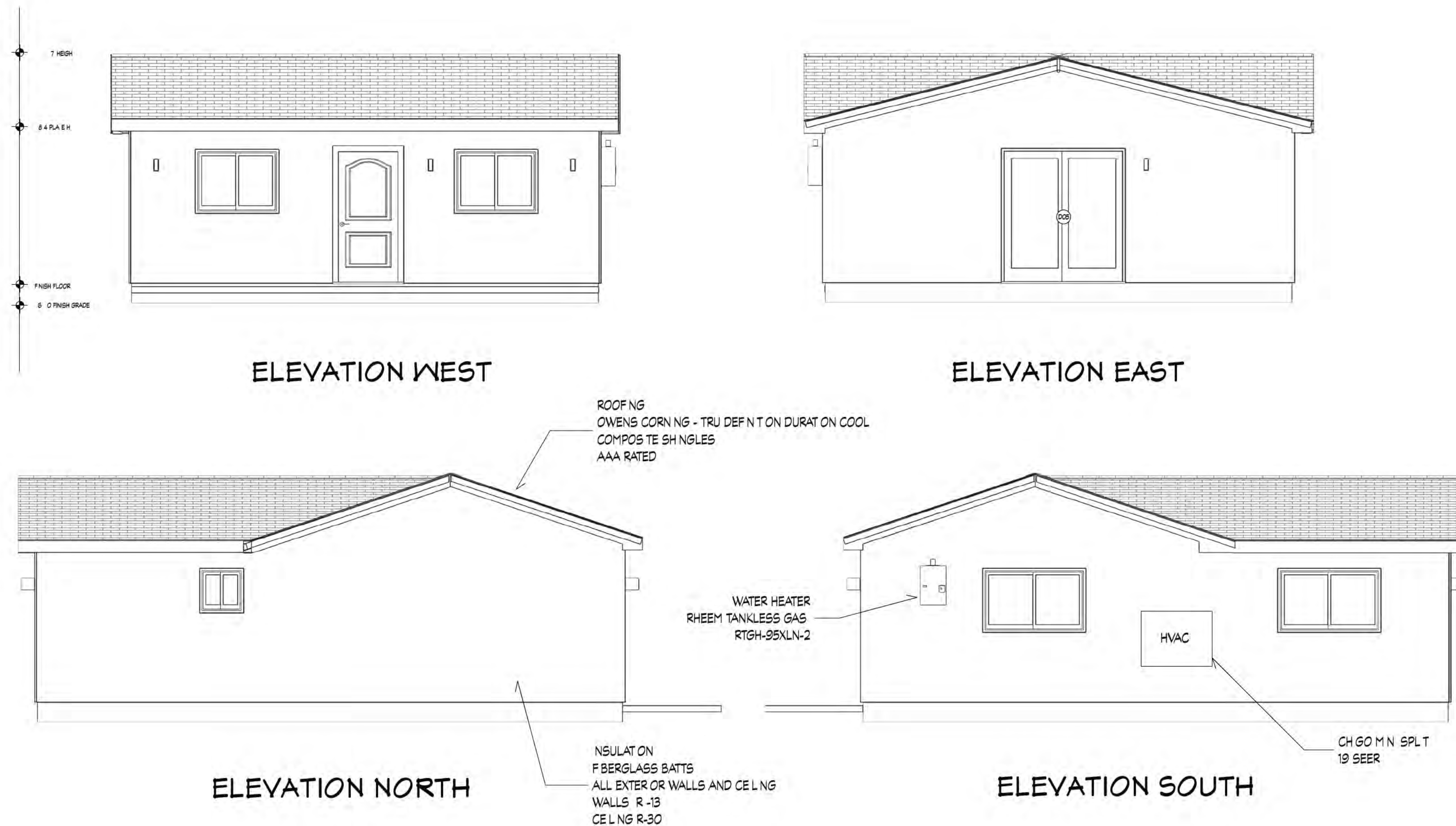
**REFERENCE**  
R337  
HAZARD SEVERITY ZONE OR WILDLAND INTERFACE AREA SHALL COMPLY WITH ALL SECTIONS INCLUDING THE FOLLOWING:

ANY EXPOSED FRAMING SHALL BE A MIN. SIZE OF 4X4  
ALL EXTERIOR SIDING SHALL BE OF FIRE RESISTANT MATERIAL  
EXTERIOR WINDOWS AND EXTERIOR GLAZED DOOR ASSEMBLIES SHALL COMPLY WITH ONE OF THE FOLLOWING REQUIREMENTS:  
BE CONSTRUCTED OF MULTIPANE GLAZING WITH A MINIMUM OF ONE TEMPERED PANE MEETING THE REQUIREMENTS OF SECTION R308 SAFETY GLAZING, OR  
BE CONSTRUCTED OF BLOCK GLASS UNITS, OR  
HAVE A FIRE RESISTANCE RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED ACCORDING TO NFPA 257, OR  
BE TESTED TO MEET THE PERFORMANCE REQUIREMENTS OF SFM STANDARD 12-7A-TWO  
CRC R337.8.2.1

ROOFING COVERING MATERIALS - ROOFS SHALL BE COVERED WITH MATERIALS AS SET FORTH IN SECTIONS R904 AND R905. A MINIMUM CLASS A ROOF SHALL BE INSTALLED IN ALL AREAS OR WHERE THE EDGE OF THE ROOF IS LESS THAN 3 FEET FROM A LOT LINE. CLASS A ROOFING SHALL BE TESTED IN ACCORDANCE WITH UL 790 OR ASTM E108  
CRC R902.1

ROOF COVERINGS  
THE ENTIRE COVERING OF EVERY EXISTING STRUCTURE WHERE MORE THAN 10% OF THE TOTAL ROOF AREA IS REPAIRED OR REPLACED WITHIN ANY ONE YEAR, THE ENTIRE ROOF COVERING OF EVERY NEW STRUCTURE AND ANY ROOF COVERING APPLIED IN ALTERATION, REPAIR OR REPLACEMENT OF THE ROOF OR EVERY EXISTING STRUCTURE, SHALL BE A FIRE RETARDANT ROOF COVERING THAT IS AT LEAST CLASS A  
CRC R903.1.3

SIDING  
EXTERIOR SIDING TO BE 7/8" THREE COAT CONVENTIONAL STUCCO



**NOTES**

LAUNDRY  
PROVIDE DRYER VENT

EXHAUST FANS  
BATHROOM FANS WITH 4 INCH DUCTS - MAXIMUM LENGTH WITH NO ELBOWS 570 INCHES SUBTRACT 15 INCHES PER ELBOW.  
FANS SHALL BE PANASONIC "WHISPER" SERIES  
EXHAUST FANS SHALL BE SWITCHED SEPARATELY FROM LIGHTING SYSTEMS  
FAN CAPACITIES  
BATHROOM 50 CFM  
TO LET ROOMS 50 CFM  
KITCHEN 100 CFM

DRYER VENT  
DRYER SHALL BE VENTED TO THE OUTSIDE (w/ BACK DRAFT DAMPER). THE MAXIMUM LENGTH SHALL BE 14 FEET WITH TWO 90-DEGREE ELBOWS. MIN. 4 INCH DIAMETER.  
SMOOTH METAL DUCT. REDUCE LENGTH 2-FEET FOR EVERY ELBOW IN EXCESS OF TWO.

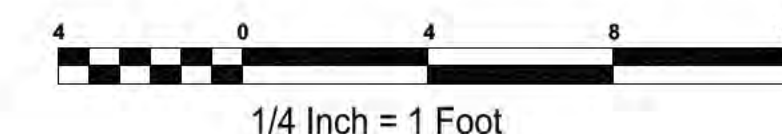
LANDSCAPING  
FLOORS OR LANDSCAPING SHALL NOT BE MORE THAN 1/2" LOWER THAN THE THRESHOLD WHEN DOORS SWING OUTWARD. PROVIDE A MINIMUM LANDSCAPING OF 36" IN DEPTH AT ALL EXTERIOR OR OPENINGS

**ROOF NOTES**

ROOFING COVERING MATERIALS - ROOFS SHALL BE COVERED WITH MATERIALS AS SET FORTH IN SECTIONS R904 AND R905. A MINIMUM CLASS A ROOF SHALL BE INSTALLED IN ALL AREAS OR WHERE THE EDGE OF THE ROOF IS LESS THAN 3 FEET FROM A LOT LINE. CLASS A ROOFING SHALL BE TESTED IN ACCORDANCE WITH UL 790 OR ASTM E108  
CRC R902.1

ROOF COVERINGS  
THE ENTIRE COVERING OF EVERY EXISTING STRUCTURE WHERE MORE THAN 10% OF THE TOTAL ROOF AREA IS REPAIRED OR REPLACED WITHIN ANY ONE YEAR, THE ENTIRE ROOF COVERING OF EVERY NEW STRUCTURE AND ANY ROOF COVERING APPLIED IN ALTERATION, REPAIR OR REPLACEMENT OF THE ROOF OR EVERY EXISTING STRUCTURE, SHALL BE A FIRE RETARDANT ROOF COVERING THAT IS AT LEAST CLASS A  
CRC R903.1.3

PROPOSED ADU PLAN  
&  
EXISTING ADU



O'S BRADLEY COMPANY, INC.  
1673 Donon Street  
Ventura, CA 93003  
310 963 7900

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REVISION TABLE	REVISION BY	DESCRIPTION
NUMBER	DATE	

1186 Rice Road  
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APN# 018 - 0 - 101 - 115

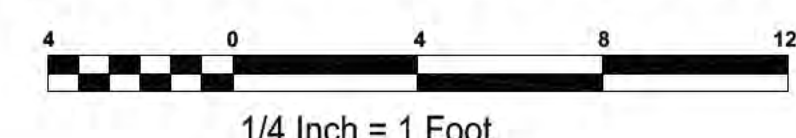
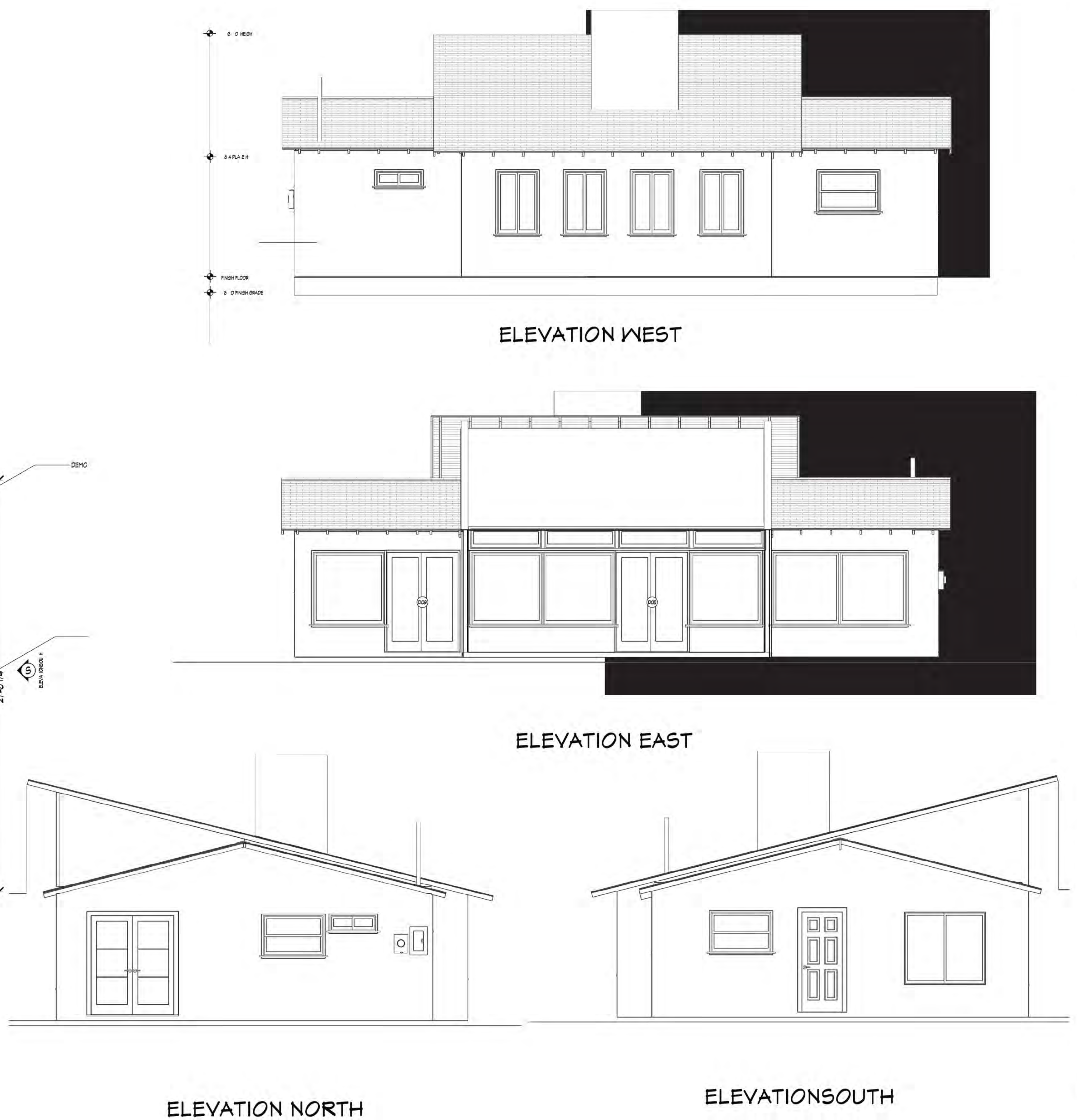
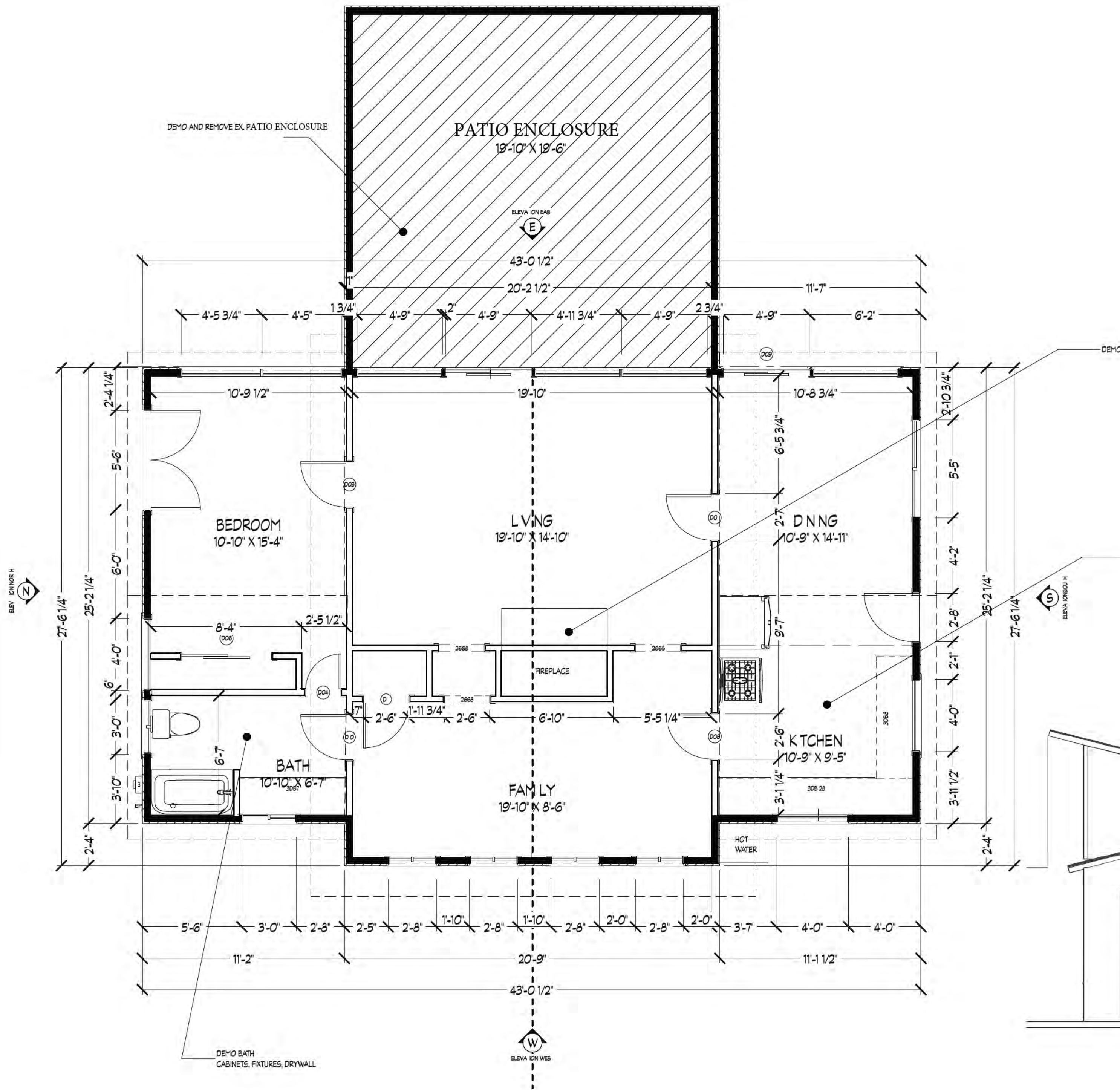
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1/18/2023

SCALE:  
1/4" = 1'

SHEET:  
A 1.0

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EXISTING MAIN HOUSE PLAN

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Remode ng Des gn

REVISION TABLE		DESCRIPTION
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APN# 018 - 0 - 101 - 115

DATE:
1/18/2023
SCALE:
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