



**MALIBU
REBUILDS**

CITY OF MALIBU REBUILD PROCESS FOR DESIGN PROFESSIONALS

4 PM WEDNESDAY, MARCH 12, 2025

BROAD AND FRANKLIN FIRE DAMAGE MAPS



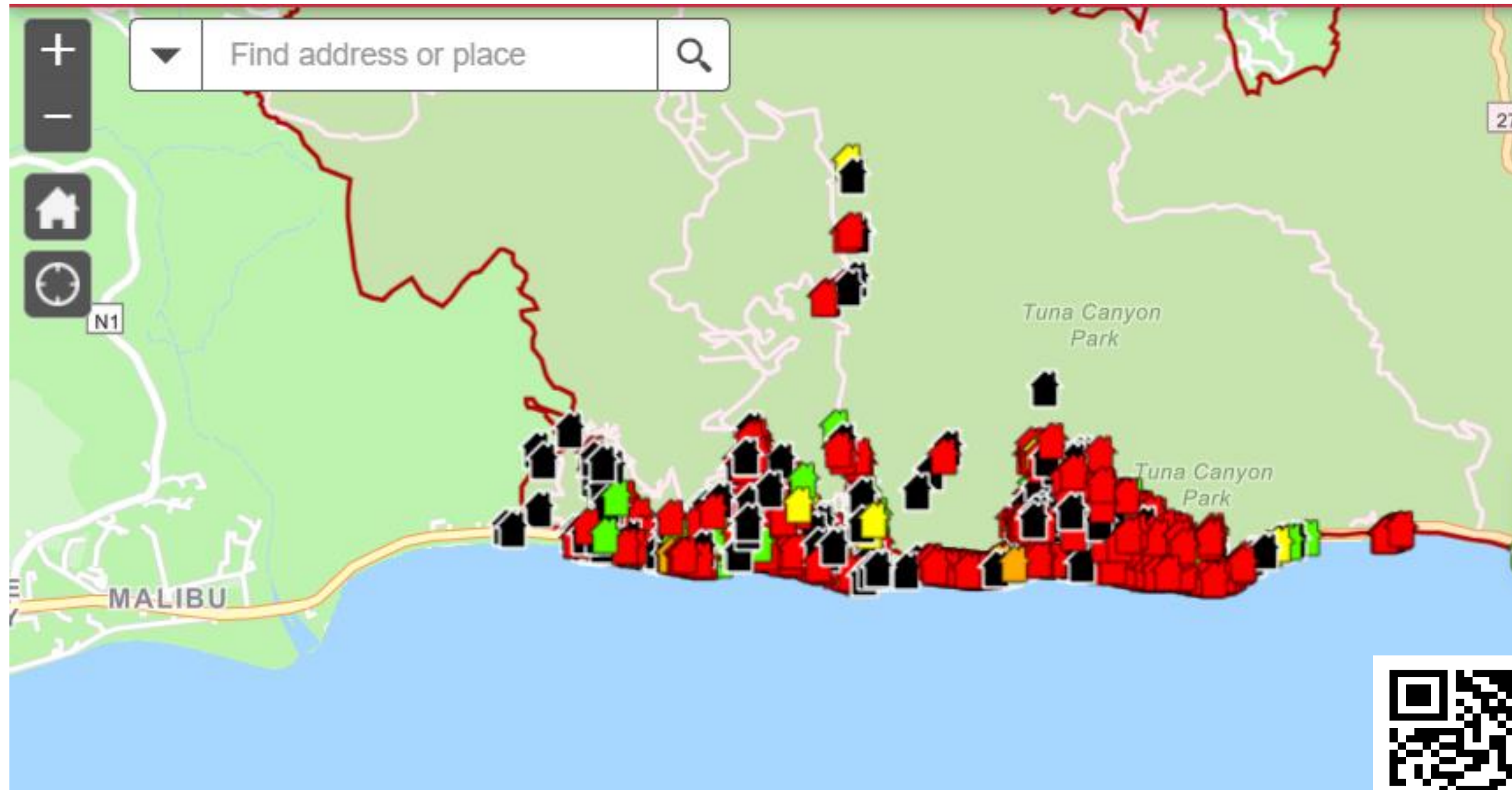
BROAD FIRE DAMAGE MAP



FRANKLIN FIRE DAMAGE MAP



PALISADES FIRE DAMAGE MAP



🔍 recovery.lacounty.gov/palisades-fire 🗣️



GOVERNOR NEWSOM: EXECUTIVE ORDER

- Governor Newsom issued an executive order to [streamline the rebuilding of homes and businesses](#) destroyed – suspending permitting and review requirements under the California Environmental Quality Act (CEQA) and the California Coastal Act.
- The executive order also mentions:
 - Providing tax relief to those impacted by the fires
 - Mobilizing debris removal and cleanup
 - Protecting victims from real estate speculators
 - Safeguarding survivors from price gouging



DEBRIS REMOVAL UPDATE



DEBRIS REMOVAL PROCESS

There are 2 main phases of the debris removal process, each managed by different agencies.

Phase 1: Hazardous Waste Removal

Managed by

U.S. Environmental Protection Agency (EPA)



Information

- Property owners do **NOT** need to sign up for Phase 1.
 - Phase 1 began on January 27, 2025.
- Property owners **must pass** a Phase 1 hazardous debris inspection and clearance by the EPA **before** being eligible for moving onto Phase 2.

Current Status

- Currently underway and almost complete.

Phase 2: General Debris Removal

Managed by

U.S. Army Corps of Engineers



Information

- Property owners need to decide whether to **opt in** for free cleanup by the Army Corps **OR opt out** and pay a specialized, approved contractor to remove the remaining fire debris.
- **A Right-Of-Entry (ROE) form is required for Phase 2 only.**

Current Status

- Currently underway and in progress.



Est. Eligible Parcels

13,579

ROEs Accepted from County

3,770

In Progress with Contractor

3,770

Final Sign Off

248

2%



OPT-OUT PROCESS (6 STEPS)

Complete and submit an opt-out form to manage cleanup independently.

Step 1: Fill out an opt-out form

- Complete the opt-out form online: <https://forms.office.com/g/EXa8axWLvU>
- Download and complete an opt-out form: https://file.lacounty.gov/SDSInter/lac/1176419_Opt-OutForm.pdf

Step 2: Apply for a County permit

- Apply for a Permit from the County in [EPIC-LA](#) to handle debris removal on your own after you receive EPA certification of phase 1 completion for your property.
- The County will review your application and your contractor's work plan to ensure compliance with safety and environmental standards.
- You will be required to meet all the same requirements as the U.S. Army Corps.

Step 3: City Permit

- The City of Malibu will automatically issue a permit once the County issues the Fire Debris Removal Approval.
- The applicant will schedule a pre-construction site visit with a City inspector to ensure the safety of residents and to safeguard properties prior to starting debris removal.



OPT-OUT PROCESS (6 STEPS) CONT...

Step 4: Post Debris Removal Documentation

- Upload the following documentation to EPIC-LA:
 - Weight tickets or Disposal Documents from a certified landfill
 - Hazardous Waste Manifest(s) (if applicable)
 - Site photos of the completed site
 - Photos must be taken of the frontage (from the street towards the property).
 - Provide photos of the building footprint, foundations (as applicable), property lines, any remaining structures.
- If foundations remain in place, an approval from the City Building Official will be required prior to reusing the foundation as part of the building permit process for new structures.

Step 5: City Sign Off

- Once the County has reviewed debris removal documentation, the City inspector will verify debris cleanup and that erosion control is in place in prior to sign off.

Step 6: Final County Sign Off

- Final Debris Removal Permit Closure will be provided.





REUSE OF FOUNDATIONS REQUIREMENTS



FIRE AFFECTS CONCRETE FOUNDATIONS

Concrete when exposed to extremely high temperatures, its structural integrity can be significantly compromised. Here are the key ways fire affects concrete:

Loss of Strength

- At temperatures above 300°F (150°C), concrete begins to lose its strength.
- By the time temperatures reach 1,100°F (600°C), concrete can lose 50% or more of its original strength, making it structurally unreliable.

Spalling

- When exposed to intense heat, moisture trapped within the concrete expands, causing the surface to crack and break off in chunks. This process, known as spalling, weakens the overall structure and increases the likelihood of further damage.





FIRE AFFECTS REINFORCING STEEL (REBAR)

Reinforcing steel embedded within the concrete is also vulnerable to extreme heat, which can significantly weaken the foundation's overall stability. If you think of the rebar as the skeletal structure of the foundation, the potential instability brings the usability of the entire foundation system into question.

Loss of Strength & Elasticity

- Rebar begins to lose strength at around 1,100°F (600°C) and can melt at approximately 2,500°F (1,370°C).
- This loss of strength compromises the foundation's ability to bear loads and withstand external forces, including future seismic events.

Thermal Expansion

- As steel heats up, it expands. This expansion can create internal stresses within the concrete, leading to cracks or separation between the concrete and rebar.

Loss of Bond Strength

- Extreme heat can weaken the bond between the rebar and the surrounding concrete, reducing the foundation's stability. Without a strong bond, the foundation may not be able to support the structure effectively.





REUSE OF FOUNDATION REQUIREMENTS

Timber Piles **may not be reused** as a foundation system as per current County of Los Angeles Building Code, Section 1810.3.2.4.

There are **two mandatory steps** before potentially reusing the foundation.

- **Step 1:** The Feasibility Study
- **Step 2:** Plan Review Process
 - The foundation shall meet minimum code requirements (current Los Angeles County Code, current California Building Code, and all other referenced codes and standards) during the plan review stage.
 - The California licensed design professional of record ***must* provide details, calculations, and a narrative of repairs necessary for proof that the foundation meets minimum current code requirements for the plan review process.**

The foundation shall also meet minimum requirements and recommendations by a California licensed geotechnical engineer provided in a soils report or an update letter.

The submittal of the feasibility report or the City's acceptance of the report ***does not guarantee*** that the foundation may be reused for the construction of a new building or structure. The acceptance of the report allows for building plans to be submitted for plan review. During the plan review process, the foundation may be deemed unacceptable for reuse. The owner(s) shall be aware of all the risks in the form of additional costs or the failure to reuse the existing foundation.



FEASIBILITY REPORT

This guideline presents the minimum required information to be provided on the feasibility report prepared by a California licensed civil engineer, or structural engineer. **All testing shall follow specific codes and standards. Failure to do so will result in corrections needed before approval.**

A. Visual Inspection – All locations of surface crazing, concrete cracking, surface erosion, spalling and discoloration of concrete shall be identified, photographed, and included in the report. Provide a description regarding the damage of the concrete observed including steel reinforcement and anchor bolts.

B. Non-Destructive Testing – Schmidt Hammer test (ASTM C805-18) shall be performed on the foundation to assess the in-place uniformity of concrete, to delineate variations in concrete quality throughout a structure, and to estimate in-place strength. The testing shall be performed at various locations of the foundation including areas with little to no fire damage and areas with damage. Provide a sketch of the foundation or retaining wall showing the locations where tests have been taken from. The corresponding test results shall be clearly stated for each test. Based on the Schmidt Hammer testing results, destructive concrete testing per section C noted below shall be conducted to confirm concrete compressive strength. Note: Foundation elements with compressive strengths less than 2,500 psi are not allowed to be reused.



FEASIBILITY REPORT

C. Destructive Testing – Core sample testing is required to confirm the concrete compressive strength for all fire damaged foundation systems. Concrete core testing shall be in conformance with ASTM C42-20, ACI 214.4R-10, and other referenced codes and standards. (Note: Shotcrete testing method shall be per ASTM C1604/C1604M-05). The destructive testing shall be conducted by a certified testing laboratory and the testing results shall be documented in a formal report confirming the concrete strength results.

D. Tensile Testing – Any existing tension devices to be reused including holdowns, anchor bolts, and mudsill anchors shall have pull out tests performed in accordance with **ASTM C900-23**. All holdown anchors to be reused shall be load tested for a minimum load that matches the holdown manufacturer's listed tension design capacity. The *minimum* testing force for anchor bolts and mudsill anchors shall be 1,000 lbs tension force. The frequency of the testing shall be 25% of anchor bolts / mudsill anchors and shall be selected at random to be tested and certified. Failing bolts shall be identified and not used.

E. Soil Contamination – A soils contamination report **must be provided** confirming the site is free of contamination and hazardous materials and shall be submitted and approved by all authorities having jurisdiction. The testing and certification(s) of the soils shall meet all requirements of all authorities having jurisdiction. All soil sampling and testing shall be conducted by certified testing laboratories.



CITY OF MALIBU
RECEIVED
APR 23 2019
ENVIRONMENTAL
SUSTAINABILITY DEPT

19-1985

13059.01
ccwf 19-0033

April 16, 2019

Woolsey Fire
Foundation Feasibility accepted.
Building Plan Review required.

Dume Drive
Malibu, CA 90265

RE: Evaluation of Existing Foundation Concrete, Residence, Dume Drive,
Malibu, California

This letter presents the results of an evaluation of the existing foundation concrete that B
Associatt _____ ned for the Residence. This evaluation is limited to
strength of accessible existing concrete. Other foundation performance requirements should be
evaluated by the appropriate discipline. The residence structure was burned in the November
2018 Woolsey fire. The project site is located at Dume Drive, Malibu, California.

BAI completed rebound hammer tests on March 20, 2019 on areas exposed by the debris
cleanup; the results are present in Table 1. The locati of the rebound hammer test are
presented on Plate 1. Also on March 19 and 20, 2019 BAI cored the slab and stem wall portions
of the main residence at the 23 locations shown on Plate 1. Concrete cores recovered at these
locations were 2.5-inches in diameter. Cores one through five and 10 through 18 were c____
vertically, while the remaining cores were cored horizontally. On March 20, 2019 BAI
completed anchor bolt pull test on the foundation. The eleven anchor bolts were 5/8-inch



Project:
 Project Number:
 Date: 4/16/2019

Rebound Hammer Table 1

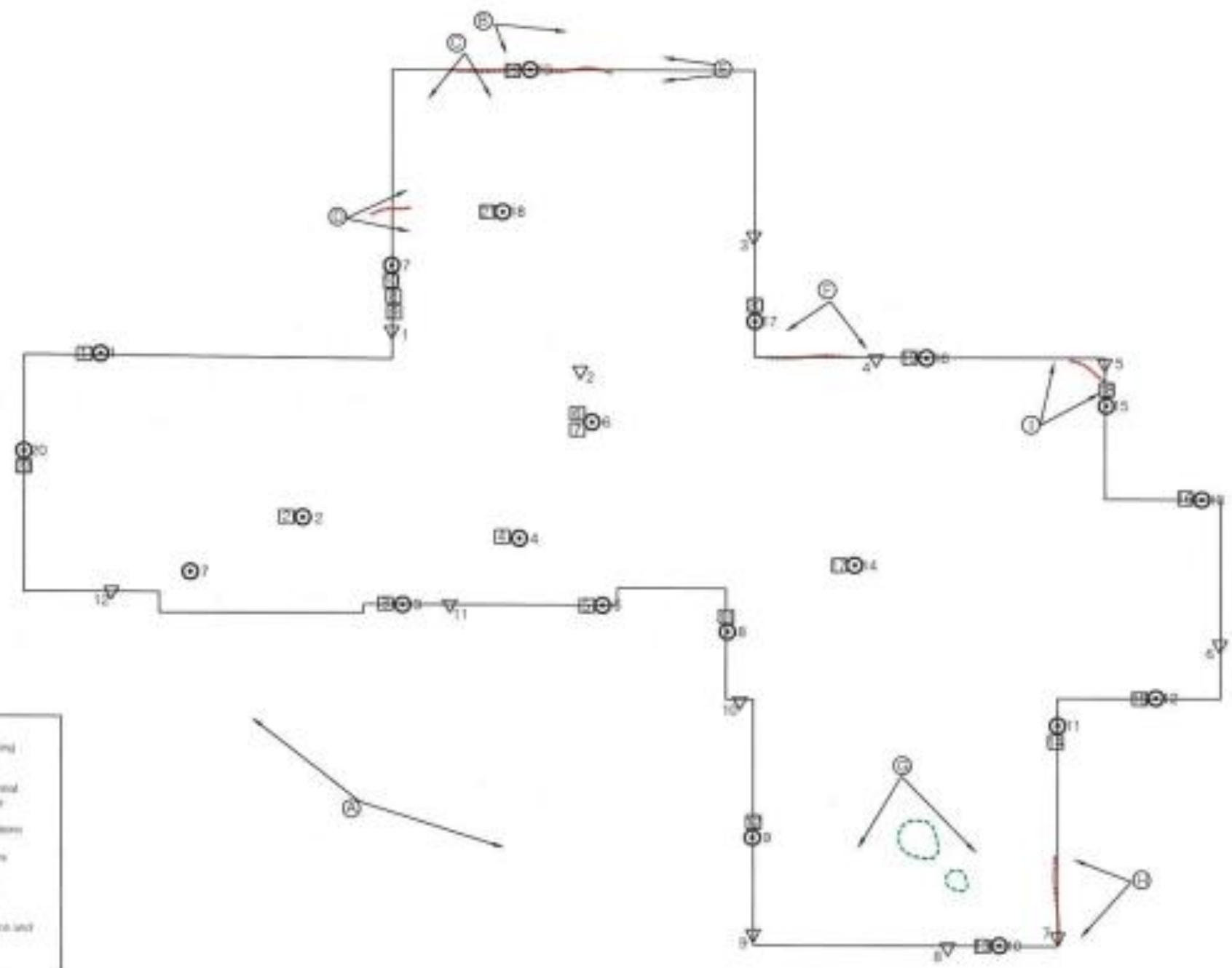
Test Location, see Plate 1								
Rebound #	test 1	test 2	test 3	test 4	test 5	test 6	test 7	test 8
	V	V	V	V	V	H	H	V
1	34	40	28	42	30	31	30	41
2	34	40	29	44	30	29	30	40
3	32	42	27	43	32	29	30	40
4	33	41	28	42	30	30	29	40
5	30	42	30	42	32	28	29	37
6	35	44	28	42	31	30	28	40
7	32	42	28	42	33	28	27	41
8	34	42	31	43	31	29	30	39
9	36	43	31	40	31	27	30	42
10	34	42	30	42	31	31	30	40
Average	33	42	29	42	31	29	29	40
psi*	4115	5919	3380	5919	3742	2823	2823	5500
Rebound #	test 9	test 10	test 11	test 12	test 13	test 14	test 15	test 16
	V	V	V	V	V	V	V	H
1	31	35	32	32	38	42	27	34
2	36	41	29	32	40	47	28	36
3	34	36	34	30	41	44	29	32
4	32	36	34	30	44	45	30	34
5	27	32	30	31	40	43	27	32
6	31	37	30	30	42	46	32	33
7	29	37	29	34	42	40	31	35
8	32	36	29	33	41	45	30	34
9	33	40	31	30	43	44	31	34
10	30	38	30	32	41	44	30	32
Average	32	37	31	31	41	44	30	34
psi*	3928	4892	3742	3742	5708	6348	3560	3734

*Estimated concrete compression strength based on hammer chart.



Legend

- Rebound hammer testing location and number
- Cracks noted during visual testing, before repairs
- Concrete spalling locations
- Concrete core locations
- As chlorides pull test locations
- Site photograph location and direction



Job No. 130510	TESTING AND OBSERVATION LOCATIONS	PLATE
Drawn: KAC		1
Date: 04/20/17	1 Date Drive Malibu, California	



**MALIBU
REBUILDS**



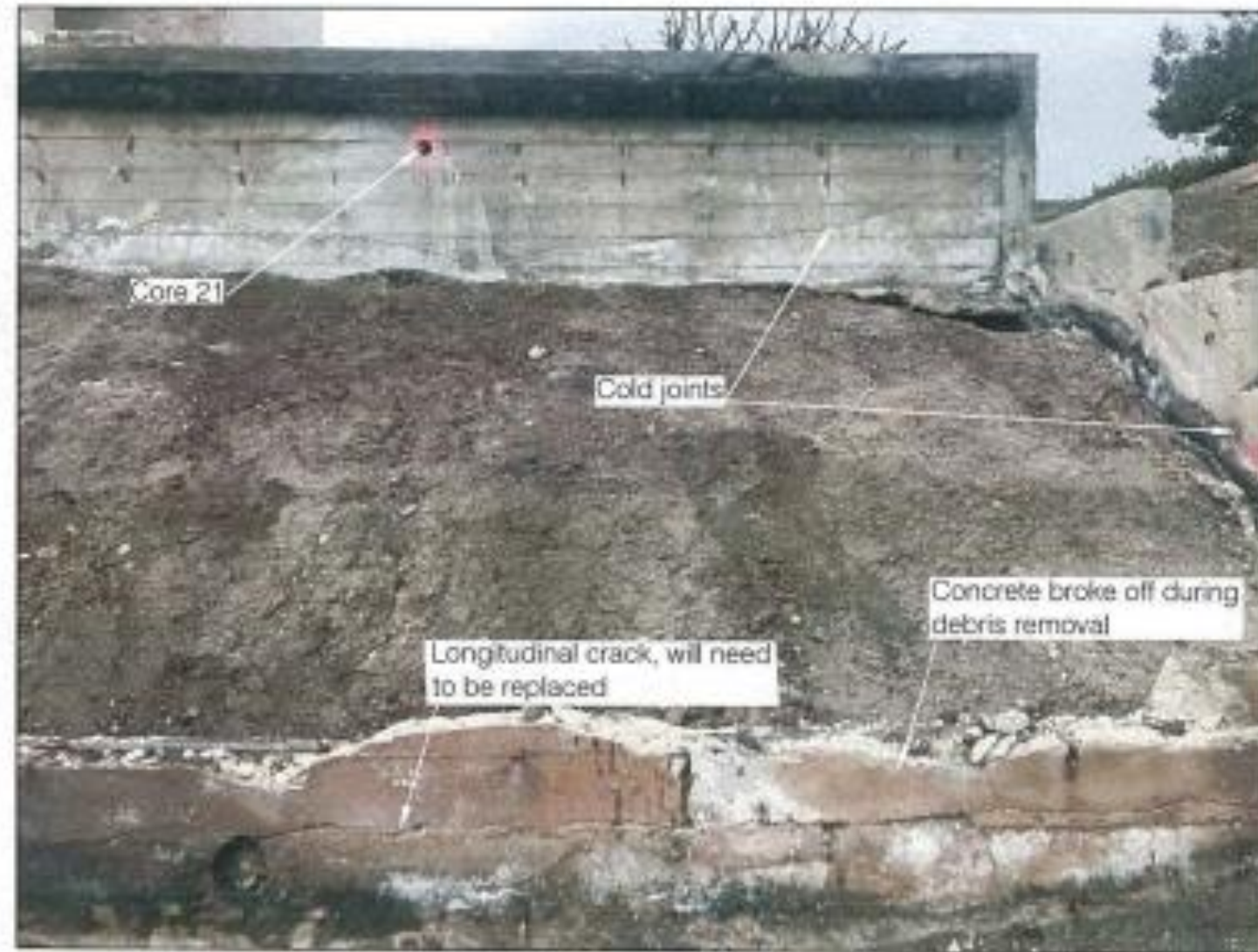
Site Photograph A

Job No.: 15099-01 Appr: <i>KAC</i> Date: 04/16/19	SITE PHOTOGRAPH A RESIDENCE 11400 Drive Malibu, California	PLATE 2
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Site Photograph B



Site Photograph C

Date: 12/15/18 App: <i>KAC</i> By: 12/15/18	SITE PHOTOGRAPHS B and C RESIDENCE: Dune Drive Malibu, California	PLATE 3
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Site Photograph D



Site Photograph E

Job No. 13-0010 Date: <i>KAC</i> File: 041510	SITE PHOTOGRAPHS D and E RESIDENCE Dana Drive Malibu, California	PLATE 4
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Site Photograph F



Site Photograph G

Job No: 170010 App: <i>KAC</i> Date: 03/20/17	SITE PHOTOGRAPHS F and G RESIDENCE Dana Drive Malibu, California	PLATE 5
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CONCRETE COMPRESSION TEST REPORT

Test Data (ASTM C39)

Sample Number	Date Cored	Date Tested	Dimensions (in)	Area (in ²)	Load (lbf)	Corr. Factor	Cure Type	Fract. Type	Comp. Str. (psi)
CORE 1	3/20/19	3/21/19	2.5 X 5	4.91	23843	1.00	F	5	4860
CORE 10	3/20/19	3/21/19	2.5 X 5	4.91	22900	1.00	F	2	4670
CORE 11	3/20/19	3/21/19	2.5 X 5	4.91	23381	1.00	F	5	4760
CORE 12	3/20/19	3/21/19	2.5 X 4.75	4.91	30897	1.00	F	2	6290
CORE 13	3/20/19	3/21/19	2.5 X 5	4.91	23862	1.00	F	1	4860
CORE 14	3/20/19	3/21/19	2.5 X 5	4.91	30416	1.00	F	5	6200
CORE 15	3/20/19	3/21/19	2.5 X 4.75	4.91	30276	1.00	F	1	6170
CORE 16	3/20/19	3/21/19	2.5 X 5.125	4.91	32731	1.00	F	2	6670
CORE 17	3/20/19	3/21/19	2.5 X 5	4.91	21767	1.00	F	5	4430
CORE 18	3/20/19	3/21/19	2.5 X 5.125	4.91	23391	1.00	F	5	4770

Cure Type: L-Laboratory, F-Field
 Fracture Type: 1-Cone, 2-Cone/Vertical Cracks, 3-Columnar, 4-Diagonal, 5-Side Fractures/Top or Bottom, 6-Side Fractures/Top or Bottom

● Defects not apparent unless otherwise noted.

Job No: 13059 01	CONCRETE DATA SHEET RESIDENCE Dume Drive Malibu, California	PLATE
Appr: <i>KAC</i>		7
Date: 04/17/19		SHEET 1 of 2





Site Photograph H



Site Photograph I

Job No. 180501	SITE PHOTOGRAPHS H and I	PLATE
App. KAC	RESIDENCE	6
City 010018	Dana Drive	
	Malibu, California	



TEMPORARY HOUSING REQUIREMENTS



TEMPORARY HOUSING

Temporary housing structures are defined as mobile homes, trailers, recreational vehicles or other structures which are self-contained units which include sanitary facilities, and facilities for normal daily routines including cooking and sleeping.

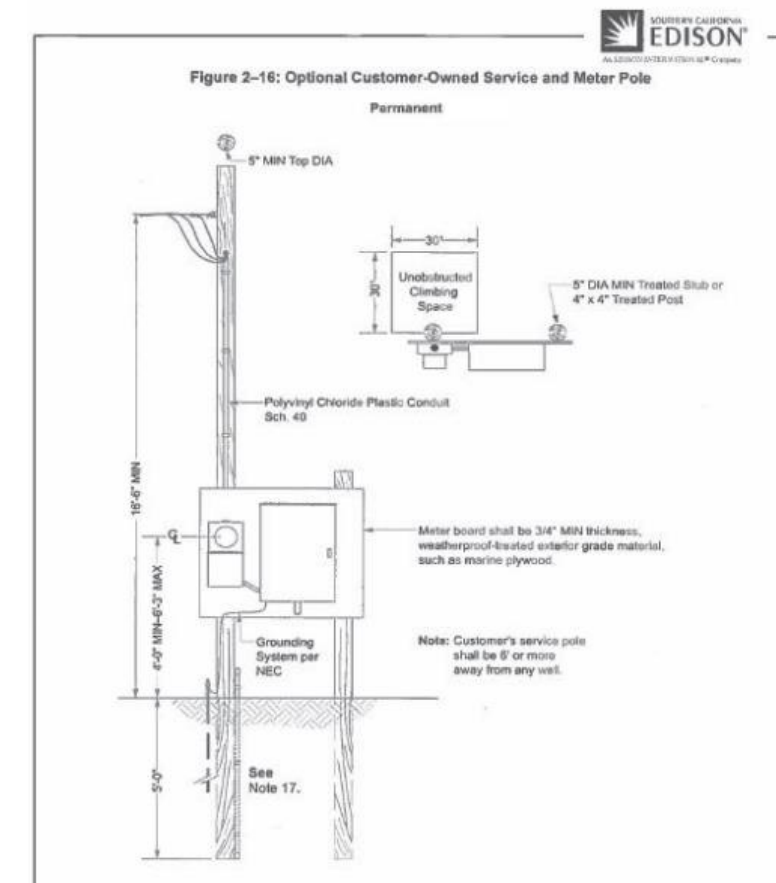
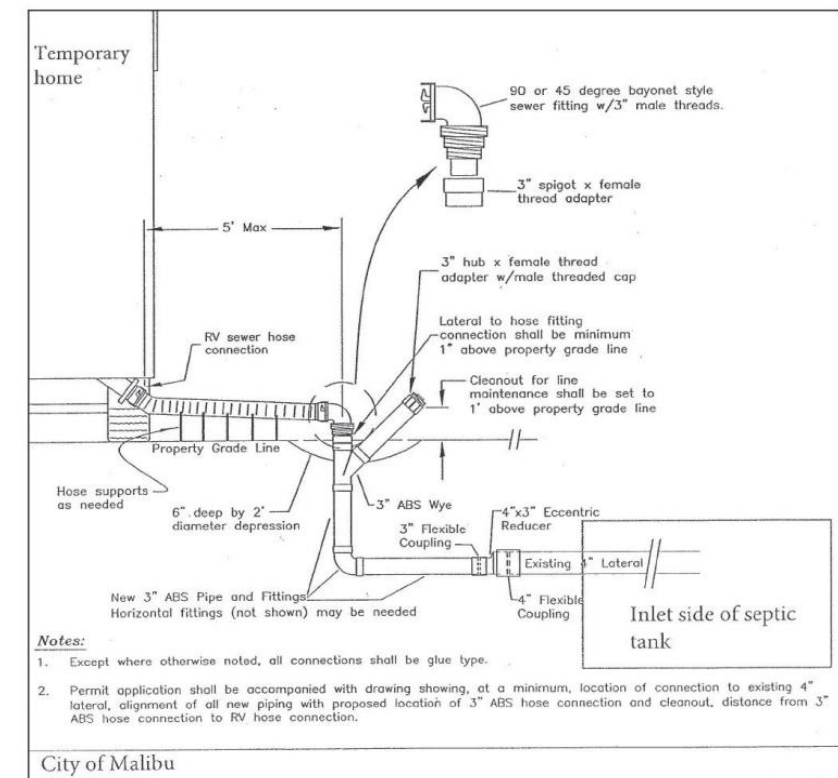
- Temporary housing structures **DO NOT include any structure placed upon a permanent foundation, nor do they include tents, yurts, or similar fabric or textile installations.**
- Conditions of approval in the Planning Application attached includes the following:
 1. No more than two (2) temporary housing structures which together total no more than 1,000 square feet will be permitted.
 2. No additional grading will be allowed, beyond that permitted as part of the development plan.
 3. The temporary housing must be placed within the existing development area.
 4. The temporary housing structure must include skirting.
 5. Permit is good for 4 years from date of approval.



TEMPORARY HOUSING

- **Electrical Service Requirements:** On the temporary housing site plan, show
 1. Distance from meter service to temporary housing
 2. Size and height of electrical meter
 3. All requirements of the Malibu Electrical Code apply to the installation from the junction box to the meter location
 4. No temporary power poles will be allowed
- **Natural Gas and Water Service Requirements:** On the temporary housing site plan, show
 1. Distance from service meter to temporary housing
 2. Type and size of materials that will be used
 3. Location and depth of line trench
- **Onsite Wastewater Treatment System (OWTS) Requirements:**
 1. Obtain an inspection of the OWTS by a City-Registered OWTS Inspector
 2. Submit the inspection form and site plan showing the temporary housing and OWTS to Environmental Health
 3. Any repairs to the OWTS must be made prior to utilization of the OWTS

TEMPORARY SEWAGE DISPOSAL CONNECTION

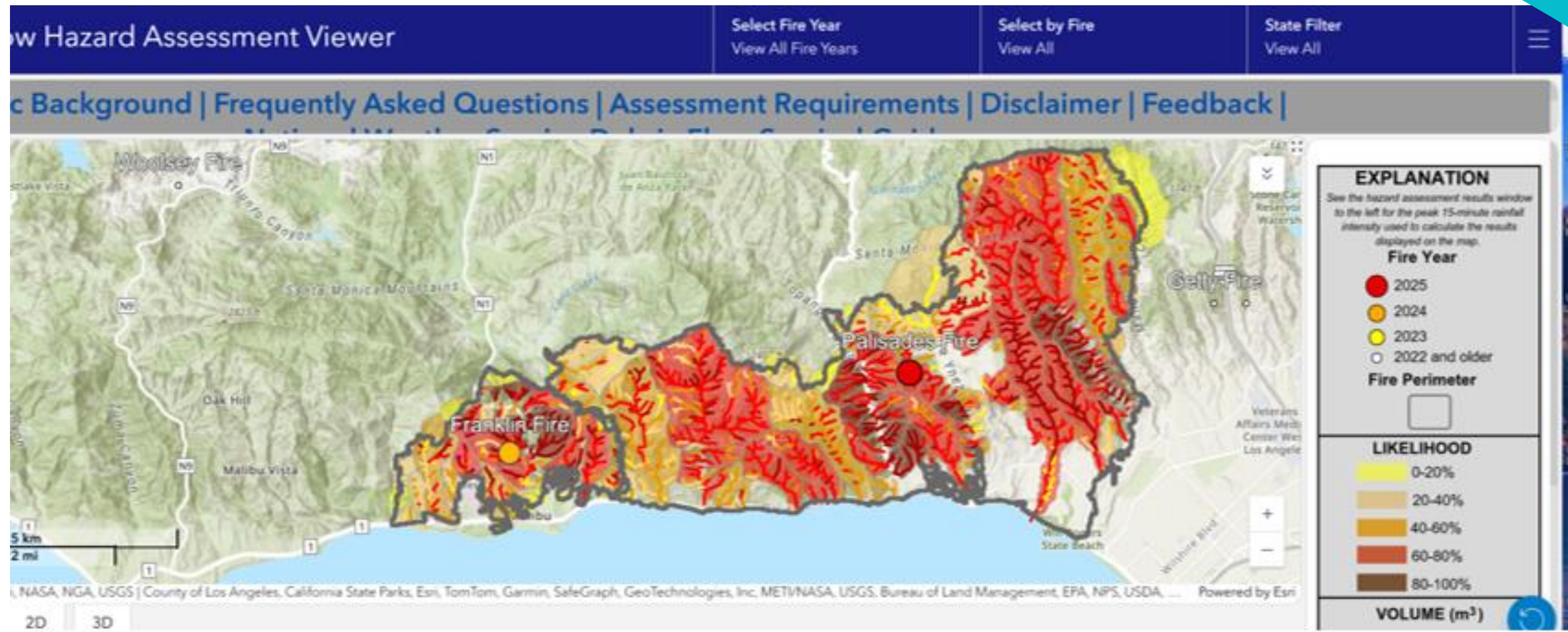




TEMPORARY HOUSING ADDITIONAL REQUIREMENTS

- The siting of temporary housing shall be supported by a limited geotechnical report prepared by appropriately licensed professionals which evaluates the location of the proposed temporary housing with respect to geologic and flood hazards that the specific location(s) may be exposed to during the proposed four (4) year use of the location.
 - Specifically, the threat of **post-fire debris flows and floods** for the Franklin Fire and the Palisades Fire as described by the USGS (<https://www.arcgis.com/apps/dashboards/c09fa874362e48a9afe79432f2efe6fe>) and identified by the Watershed Emergency Response Team Assessments (<https://www.conservation.ca.gov/cgs/bwg/recent>).
 - A finding is required that the specific location of the temporary housing is safe for its intended use for the duration of use. The report must be submitted to the City for review and accepted by the Building Official.
- If the temporary housing is supported on anything **OTHER** than wheels or a trailer which can be readily moved (i.e. a **manufactured home**), it shall comply with requirements for foundations as noted in Chapter 16, 18 and Appendix G – Flood proof Construction of the current California Building Code and requires a building permit.





Post Fire Debris Flow Hazard Assessment Map USGS

CGS Home

About the CGS

Burned Watershed Geohazards

Post-Fire Debris Flows

Post-Fire Resources

Recent WERT Assessments

What's a WERT?

About the DWIC Program

Recent Burned Watershed Hazard Assessments

January 2025: The Palisades Fire WERT report is available now. Download it here.
The Eaton Fire WERT report is available now. Download it here.

On this page:

2025 WERT Response

2024 WERT Response

2023 WERT Response

2022 WERT Response

2021 WERT Response

2020 WERT Response

Images from the Field

WARNING: Enhanced landslide hazards continue to exist in previous years' wildfire areas. A typical watershed recovery

Watershed Hazard Assessment (DOC)

Palisades Fire

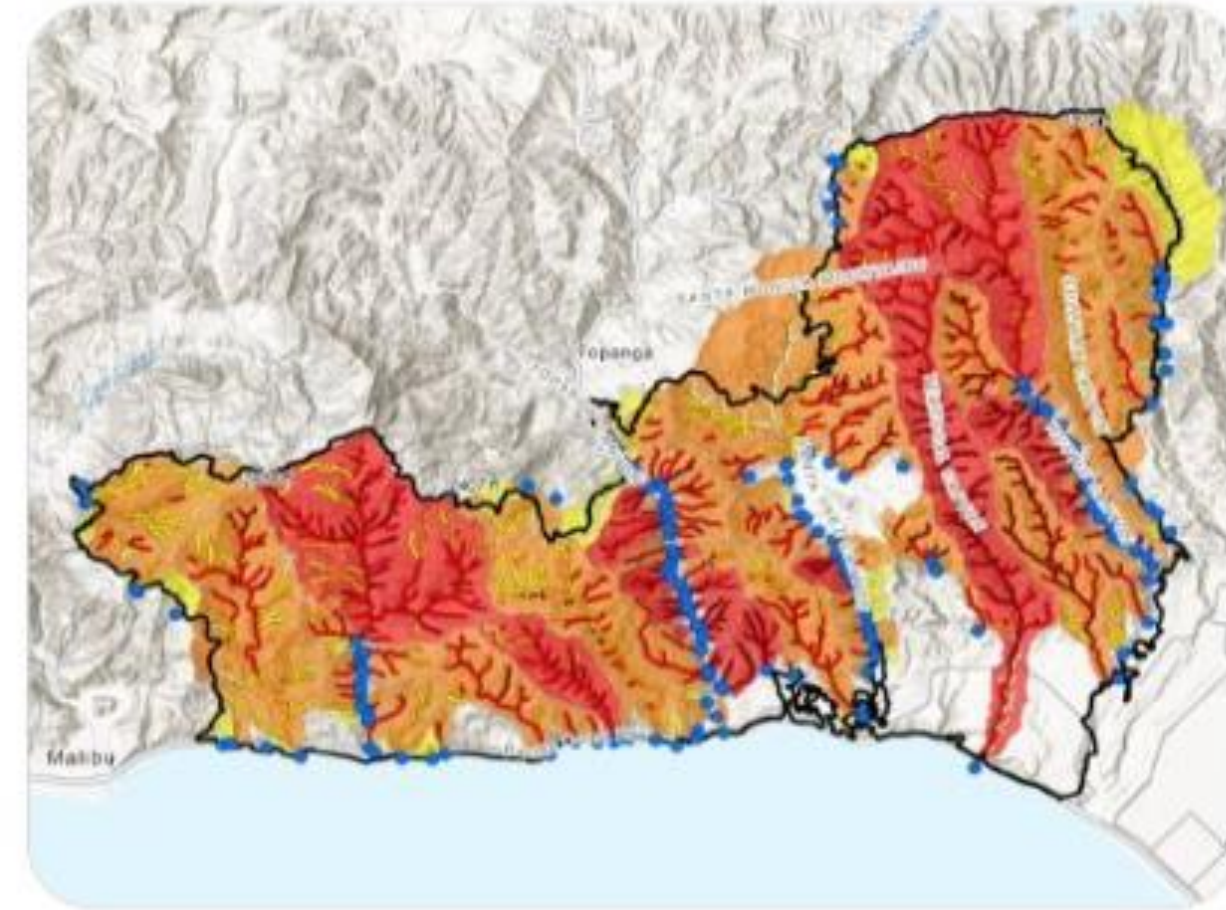
County Affected: Los Angeles

CGS/CAL FIRE WERT Report:

- [Palisades Fire WERT Evaluation](#)

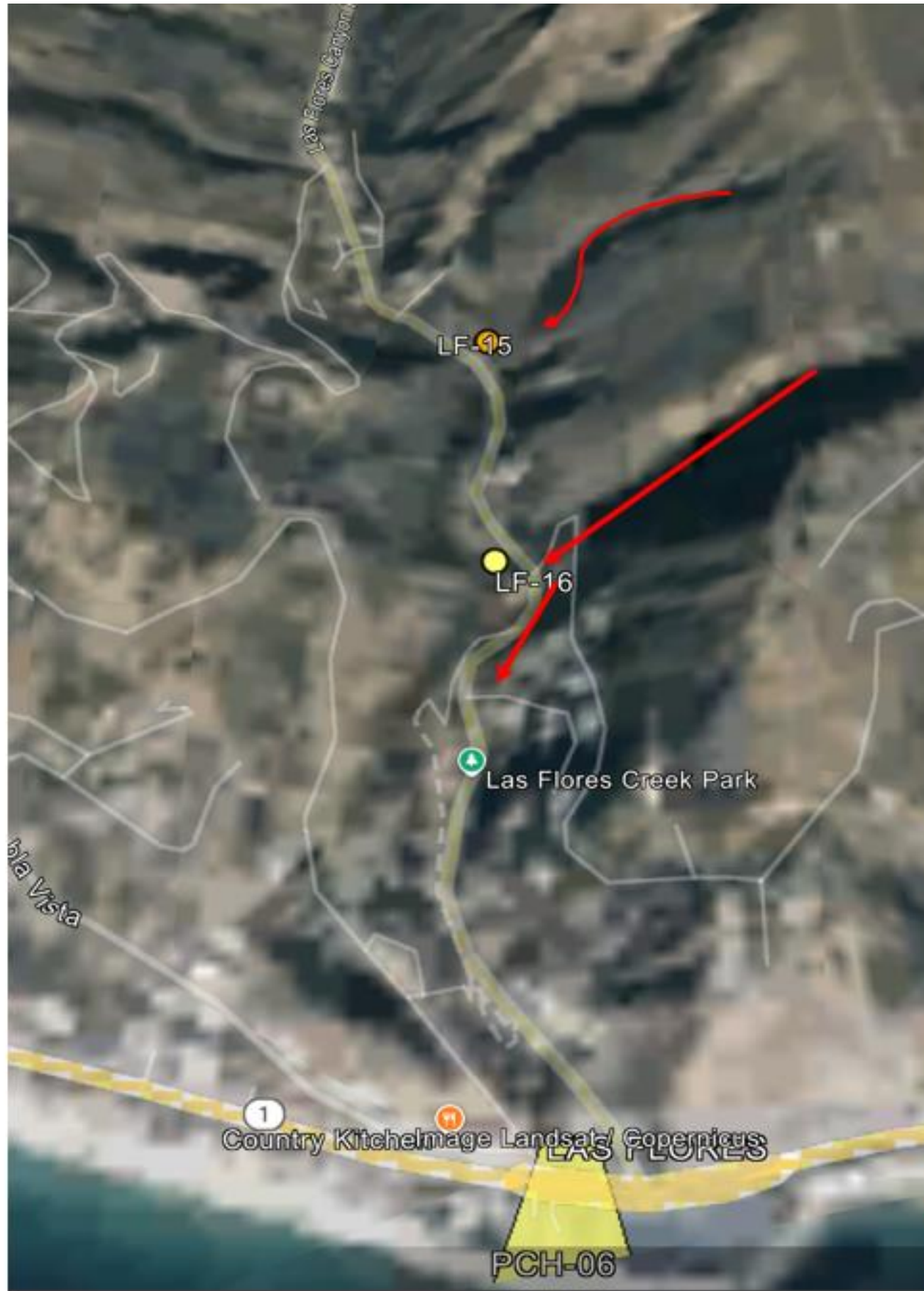
Additional Information:

- [CAL FIRE Palisades Fire Incident Archive](#)
- InciWeb Information: Not available.
- [USGS Post-Fire Debris Flow Hazard Assessment Viewer](#)
- USFS Palisades Post-Fire BAER: Not available (not USFS jurisdiction).



Watershed Hazard Assessment Evaluation Report





LF-15

LF-15	
SHAPE	Point
Site Number	LF-15
Community / Local area	Las Flores Canyon
Street address	Las Flores Canyon Rd.
Latitude	34.043963
Longitude	-118.637487
Potential hazard / Field observation	Small debris rack/drainage structure above destroyed home. Potential flood/debris flow hazard to home site.
Hazard (cont'd)	Possible probability of occurrence with moderate consequence = intermediate risk
Hazard Category	debris flow / flood
Specific at-risk feature	home site
Feature Category	home
Potential hazard to life?	moderate
Potential hazard to property?	moderate
Remarks	Home is destroyed, drainage structure with debris rack above and upstream of home. Small but steep drainage burned at moderate severity. High combined hazard class for stream segment in USGS model motivated inclusion as value at risk and concern for moderate hazard to property.
Emergency Protective Measures	Clear and maintain basin
Emergency Protective Measures (cont'd)	Early Warning
Emergency Protective Measures (cont'd 2)	Deflection structure
Emergency protective measures (cont'd 3)	<Null>
Emergency Protective Measures (text)	Do not site temporary housing in flow path.
Receiver Name	<Null>



TEMPORARY HOUSING

EXAMPLES OF PREVIOUSLY APPROVED FOUNDATION SYSTEMS



WANDERMERE ROAD

TEMPORARY HOUSING EXAMPLE



WANDERMERE ROAD
MALIBU, CA 90265

(2018 Fire Rebuild)
(THWF 20-002)

TEMPORARY MOBILE HOME : 3 Bedrooms/27 Fixture Units (T)
SEPTIC TANK: 1,000 Gallon tank (E)
ACTIVE: 1 - 5' x 25' (E)
FUTURE: None
PERC RATE: Unknown

NOTES:

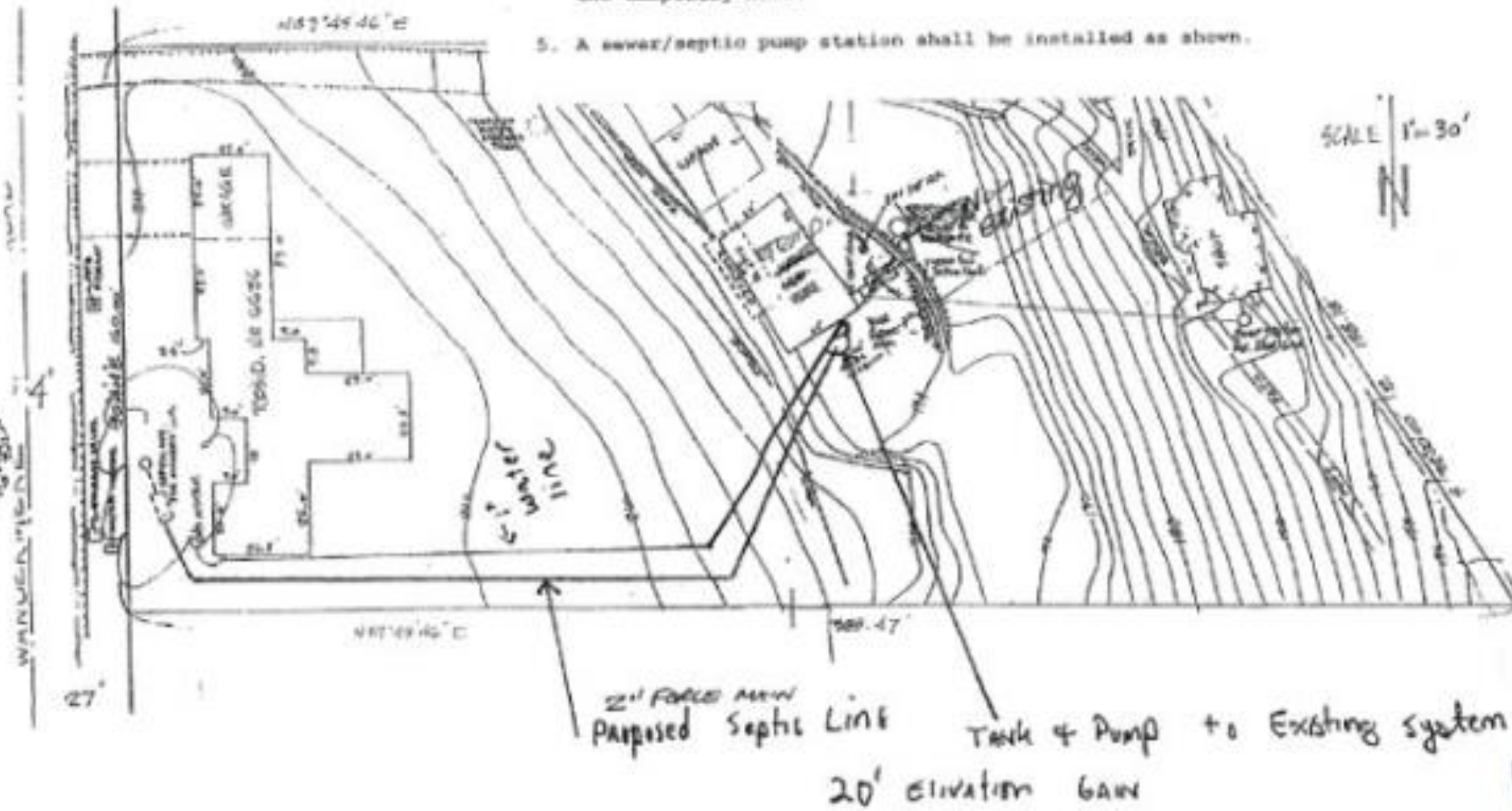
1. This approval is for the connection of a temporary home to the existing onsite wastewater treatment system (OWTS). The onsite wastewater treatment system (OWTS) conforms to the requirements of the Malibu Municipal Code (MCC) and the Local Coastal Program (LCP). The temporary home must be disconnected from the OWTS upon final inspection and occupancy of the replacement dwelling(s).
2. This approval relates only to the minimum requirements of the MCC, and the LCP, and does not include an evaluation of any geological or other potential problems, which may require an alternative method of wastewater treatment.
3. This approval is valid for one year, or until MCC, and/or LCP, and/or Administrative Policy changes render it noncomplying.
4. All pumping, repairs, and permits must be completed prior to the building inspectors sign-off on the temporary home.
5. A sewer/septic pump station shall be installed as shown.

CITY OF MALIBU
ENVIRONMENTAL SUSTAINABILITY DEPT.
ENVIRONMENTAL HEALTH

APPROVED

SIGNATURE: *Melinda T. Hart* DATE: 3/4/20

THE APPROVAL OF THIS PLAN & SPECIFICATION SHALL NOT BE HELD TO PERMIT OR TO BE AN APPROVAL OF THE VIOLATION OF FEDERAL, STATE, COUNTY, OR CITY LAWS OR ORDINANCES



B. S. Hart
PERMIT ISSUED
PERMIT NO. 20-0497
DATE: 3/4/20
INITIAL: *BT*

ENVIRONMENTAL
SUSTAINABILITY DEPT



MALIBU
REBUILDS

CITY OF MALIBU
ENVIRONMENTAL SUSTAINABILITY DEPARTMENT

APPROVED

SIGNATURE: *[Signature]*
DATE: *3/4/2020*

THE APPROVAL OF THIS PLAN AND SPECIFICATION SHALL NOT BE HELD TO PERMIT OR TO BE AN APPROVAL OF THE VIOLATION OF ANY FEDERAL, STATE, COUNTY OR CITY LAWS OR ORDINANCES.

Temporary Manufactured Home

WANDERMERE RD
27'

RECEIVED
DEC 23 2019
PLANNING DEPT.

PARCEL AREA = 52150 SQ. FT. = 1.184 AC +/-
TOTAL AREA OF EXISTING STRUCTURES = 5092 SQ. FT. +/-
CALCULATION OF PERMISSIBLE STRUCTURE SIZE FOR LOT 10 PER CITY OF MALIBU ORDINANCE NO. 140 as amended 8/13/99.

NO
--- BEST OF APPROXIMATE PERMANENT
--- STRONGER FLOW LINE
--- *Staff*
PAR 99-239
SPR 99-046

AREA CATEGORY (ACRES)	PERMISSIBLE STRUCTURE AREA (SQ. FT.)	PERMISSIBLE STRUCTURE AREA (SQ. FT.)	PERMISSIBLE STRUCTURE AREA (SQ. FT.)
UP TO 1/2	21,100	17.1	3655
1/2 TO 1	42,200	34.2	7310
1 TO 1 1/2	63,300	51.3	10865
1 1/2 TO 2	84,400	68.4	14420
TOTAL PERMISSIBLE = 102			

IMPERVIOUS COVERAGE PERMISSIBLE UNDER 20%
20% (10400) = 10,400 SQ. FT.



CITY OF MALIBU
PLANNING DEPARTMENT

APPROVED

PLANNING REVIEW NO. *THWF 20-002*
DATE: *JAN 23 2020*
SIGNATURE: *[Signature]*
PRINT NAME: *Andreea G. [Signature]*
SCALE: *1" = 20'*
544-2-C

THE APPROVAL OF THIS PLAN AND SPECIFICATIONS SHALL NOT BE HELD TO PERMIT OR TO BE AN APPROVAL OF THE VIOLATION OF ANY FEDERAL, STATE, COUNTY OR CITY LAWS OR ORDINANCES.

PLOT PLAN OF PROPERTY AT
WANDERMERE ROAD
CITY OF MALIBU, L.A. CO., CA.
BEING LOT 10 PER TRACT NO. 17808,
M.B. 438, 43-45, RECORDS OF SAID COUNTY.

PREPARED IN NOVEMBER, 1999
FOR:
BY: QUIROS SURVEYING
22240 PCH, MALIBU, CA 90263 310 488-0122


NOTES:
ELEVATIONS, CONTOURS AND GENERAL TOPOGRAPHY ARE BASED ON L.A. COUNTY PUBLIC WORKS TOPO SURV 12, 30, DATED 1989.
THE LOCATIONS OF STRUCTURES AS DEPICTED HEREON ARE FROM FIELD MEASUREMENTS CONDUCTED BY THIS OFFICE IN NOV. 1999.
THIS SURVEY IS INTENDED FOR THE SPECIFIC PURPOSE OF THIS PLOT PLAN AND MAY NOT BE ACCURATE FOR ARCHITECTURAL, OR ENGINEERING DESIGN. IF RETAINING WALLS OR OTHER STRUCTURES ARE TO BE PROVIDED, THE ELEVATIONS OF CRITICAL POINTS SHOULD BE VERIFIED BY DIRECT LOCATION PRIOR TO ADOPTION OF FINAL DESIGN.
EXAMINATION OF RECORDS, IF ANY, AND NOT DEPICTED HEREON, NO REVIEW OF A TITLE POLICY HAS BEEN MADE BY THIS MAPPING.

ISSUE = NOV. 10, 1999 544-2-C

CITY REC
MAR



MALIBU REBUILDS

ENGINEERED FOUNDATION PLAN
 C.P. SEISMIC PIER™ 
 SPA 30-5F

FOR:

BY:



Signed: 10/2/18

STATE APPROVAL

MANUFACTURED HOME/MOBILE HOME
 FOUNDATION SYSTEM
 HEALTH AND SAFETY CODE, SECTION 18502
 APPROVED





APPROVAL DOES NOT AUTHORIZE OR APPROVE ANY
 OMISSIONS OR DEVIATION FROM REQUIREMENTS OF
 APPLICABLE STATE LAWS AND REGULATIONS
 State of California
 Department of Housing and Community Development

DIVISION OF CODES AND STANDARDS

BY [Signature] DATE 10/2/18

SPA NO 30-5 (Signature)

This Plan Approved Expires 10

REV.	DATE	BY	COMMENTS
	10/02/18	YW	UPDATE TO 2018 CBC/CRC
	09/13/16	YW	MINOR TEXT EDITS
	06/17/14	YW	ADD 130 MPH WIND LOAD
	02/14/14	YW	UPDATE TO 2013 CBC/CRC



GENERAL NOTES:

REFERENCE: CALIFORNIA CODE OF REGULATIONS, TITLE 25 AND (2016) C.R.C./C.B.C. THESE PLANS MEET THE INTENT OF (2016) C.R.C. 301.1.3.

1. DESIGN LOADS SHALL BE CONSISTENT WITH LOCAL REQUIREMENTS WHERE INSTALLED. THE FOLLOWING DESIGN LOADS ARE INCORPORATED HEREIN:
FLOOR LIVE LOAD: 40 PSF ROOF LIVE LOAD: 30PSF - 100 PSF
BASIC WIND SPEED & EXPOSURE: 110-130 MPH AS LISTED IN TABLE
SEISMIC DESIGN CATEGORY: R
SITE CLASS D $S_e=1.5$ $S_{ds}=1.4$ $F_a=1.4$ $V=0.215W$ (SIMPLIFIED METHOD, ASCE 7-10 SECTION 12.14)

THIS DESIGN IS NOT INTENDED FOR USE IN FLOOD HAZARD AREAS UNLESS A SEPARATE DESIGN ADDRESSING THE FLOOD HAZARD IS SUBMITTED FOR APPROVAL BY THE LOCAL JURISDICTION.

2. FOOTINGS ARE TO BE SUPPORTED BY EITHER FIRM, UNSATURATED, UNDISTURBED SOIL OR COMPACTED FILL, ASPHALT OR CONCRETE. FOOTINGS ARE DESIGNED FOR 1600 PSF BEARING CAPACITY AND SHALL BE COMPATIBLE WITH LOCAL SOIL CONDITIONS. ALL FOOTINGS SHALL BE FOUNDED IN ACCORDANCE WITH H.C.D. GUIDELINES AND TITLE 26 OR PREPARE SUBGRADE PER SOIL REPORT, WHEN AVAILABLE.

3. STRUCTURAL STEEL:
a. SHALL CONFORM TO ASTM A36 $F_y = 36$ KSI MINIMUM.
b. SHALL BE FABRICATED ACCORDING TO AISC SPECIFICATIONS.
c. SHALL BE WELDED ACCORDING TO AWS SPECIFICATIONS:
i. ELECTRODES: E70
ii. PLATES: ASTM A36
iii. BOLTS: STANDARD ASTM A307
iv. THREADED ROD: COLD DRAWN LOW CARBON WELDABLE
d. ALL METAL COMPONENTS INCLUDING NAILS & SCREWS ETC. ARE TO BE PROTECTIVE COATED.

4. THE C.P. SEISMIC PIER SHALL BE LISTED & LABELED BY HSK ASSOCIATES FOR THESE ULTIMATE LOADS:
7" THRU 18 INCH PIERS: 3203 LBS. (STRONG DIR), 2273 (WEAK DIR), 16,000 VERTICAL

5. THIS FOUNDATION SYSTEM IS FOR PLACING MANUFACTURED HOMES CONSTRUCTED WITH LONGITUDINAL OR CROSS JOISTS.

6. THIS FOUNDATION SYSTEM IS DESIGNED TO BE CONSTRUCTED ON A FAIRLY LEVEL SITE WITH NO EXISTING SOIL PROBLEMS. SEE NOTE 2 AND TITLE 25, SECTION 1334(b).

7. THE SIZE, TYPE & LOCATION OF STANDARD VERTICAL SUPPORT PIERS & FOOTINGS MUST BE INSTALLED PER THE HOME MANUFACTURER'S INSTALLATION MANUAL. WITHOUT MANUAL, SPACING OF STANDARD PIERS TO BE DETERMINED BY TITLE 25, SECTION 1335.5.

FOUNDATION PAD NOTES:

1. TWO FOUNDATION PADS ARE AVAILABLE FOR USE WITH THIS SYSTEM. THE CUSTOMER MAY CHOOSE ONE OF THE PADS FOR THEIR HOME. SEE SHEET F6, FOUNDATION PADS.
2. FOUNDATION PADS SHALL BE PLACED ON FIRM, LEVEL UNDISTURBED SOIL (SEE GEN. NOTE 2)

3. THE FOUNDATION PADS SHALL BE ORIENTED AS SHOWN ON THE PLAN VIEW DRAWING WITH THE BOLT HOLES PERPENDICULAR TO THE CHASSIS BEAM. SEE PLAN VIEWS, SHEETS F3 AND F4.

4. CONCRETE FOUNDATION PADS
2500 PSI AT 28 DAYS AS TESTED AND MANUFACTURED BY STARLITE WEIGHT CONCRETE.

5. PRESSURE TREATED FOUNDATION PAD
3/4 INCH A.P.A. 48/24 EXTERIOR P.S.I.-83 CC. PLUGGED, NER-QA397,PRP-108.

6. ATTACHMENT TO EXISTING CONCRETE SLAB
THE C.P. SEISMIC PIER MAY BE ATTACHED TO AN EXISTING COMPETENT CONCRETE SLAB OR CONCRETE FOOTING ACCORDING TO THE FOLLOWING CRITERIA:

- 1. ATTACH WITH TWO 5/8" DIAM. REDHEAD WEDGE ANCHORS
- 2. MINIMUM EMBEDMENT = 2.5"
- 3. MINIMUM CONCRETE THICKNESS = 3 3/4"
- 4. MINIMUM EDGE DISTANCE = 2"

COACH SIZE NOTES:

1. UNLESS APPROVED BY ROCK SOLID ENGINEERING, INC., THE ROOF PITCH SHOULD NOT EXCEED:

- A. SINGLE WIDES: 4:12
- B. DOUBLE AND TRIPLE WIDES: 3:12 or 4:12



2. FOR ANY HOME SIZE OTHER THAN AS SHOWN ON THIS PLAN OR REFERENCED IN THE TABLE, THE LAYOUT SHALL BE REVIEWED & APPROVED BY ROCK SOLID ENGINEERING, INC.

INSPECTION REQUIREMENTS:

1. THE DESIGN OF THIS SYSTEM IS BASED ON STANDARD MANUFACTURED HOMES AS BUILT BY THE MANUFACTURER. SITE BUILT ADDITIONS SUCH AS GARAGES AND SECONDARY ROOFS HAVE NOT BEEN INCLUDED IN THIS DESIGN.

2. ALL DIMENSIONS INCLUDED ON THIS PLAN, INCLUDING COACH SIZE, ROOF HEIGHT AND PIER HEIGHT, SHOULD BE FIELD VERIFIED BY THE LOCAL BUILDING OFFICIAL. ANY DISCREPANCIES SHOULD BE IMMEDIATELY BROUGHT TO THE ENGINEER'S ATTENTION.

3. THE BUILDING PAD SHOULD BE INSPECTED TO ENSURE THAT PROPER SOIL CONDITIONS AND DRAINAGE PATTERNS HAVE BEEN ESTABLISHED IN ACCORDANCE WITH TITLE 25 & THE HOME INSTALLATION MANUAL.



Signed: 10/2/18

ENGINEERED FOUNDATION PLAN
CENTRAL PIERS - SPA 30-5F

10/02/18
SHEET F2
OF 8



MALIBU REBUILDS

STANDARD CHASSIS PIER SUPPORT.
TYPE, SIZE & LOCATION MUST BE
INSTALLED AS SPECIFIED IN HOME'S
INSTALLATION MANUAL.



PLACE C.P. SEISMIC PIERS
IN ROWS OF 4
PER PIERS PER TABLE,
SHEET F5
OF ROWS PER TABLE
EACH SEISMIC PIER MAY
REPLACE 1 STANDARD PIER

WHEN TIEDOWNS ARE
REQUIRED: PLACE C.P.
ANCHOR PIER ON
OUTER CHASSIS BEAM
IN PLACE OF SEISMIC
PIER. # TIEDOWNS PER
TABLE, SHEET F5
(Ult. Capacity=2840 Lat
& 3170 Uplift)

OUTLINE OF
HOME

INSTALL HOME PRIDE EARTH ANCHORS
2900 lbs CAPACITY. NUMBER PER TABLE
SPACE 1ST ROW 2 FT FROM END THEN SPACE EVENLY.
INSTALL END WALL TIEDOWNS, WHERE REQUIRED. SEE TABLE.

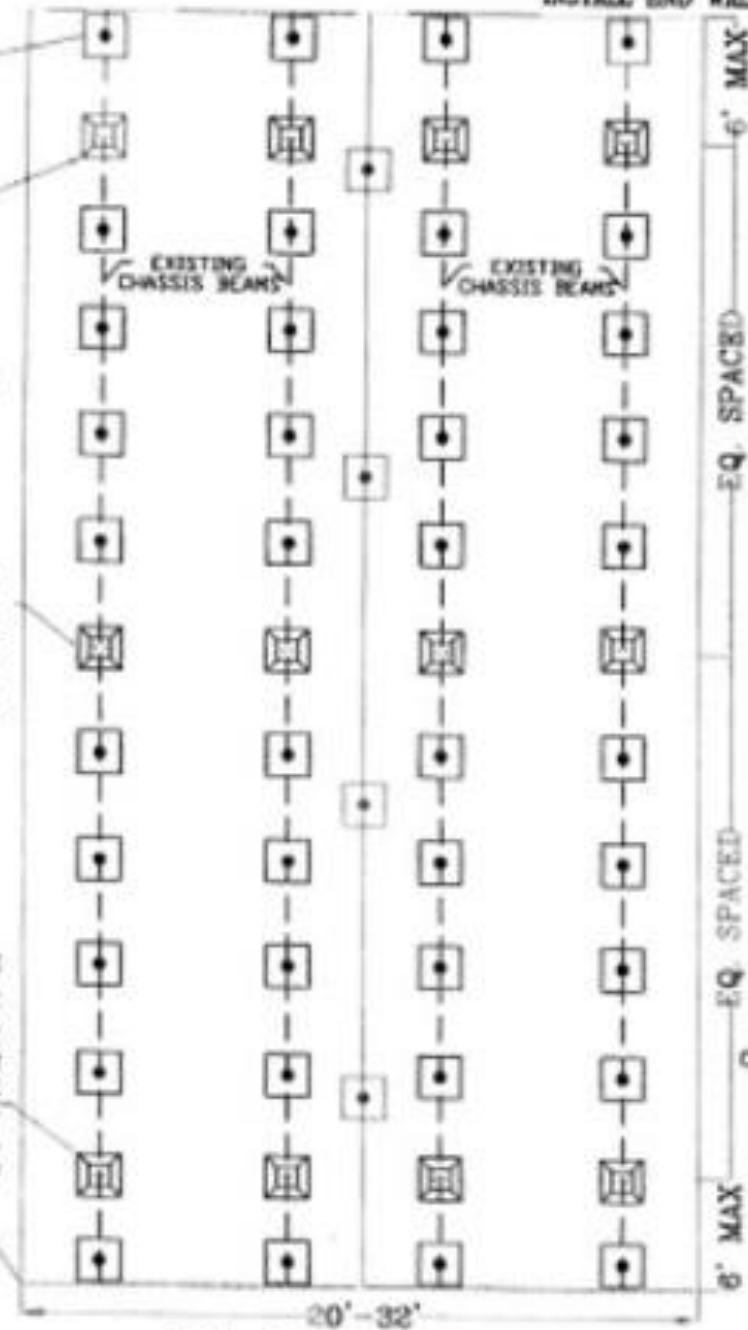


C.P. SEISMIC PIER &
FOUNDATION PAD
PER TABLE,
SHEET F5
EACH SEISMIC PIER
MAY REPLACE 1
STANDARD PIER

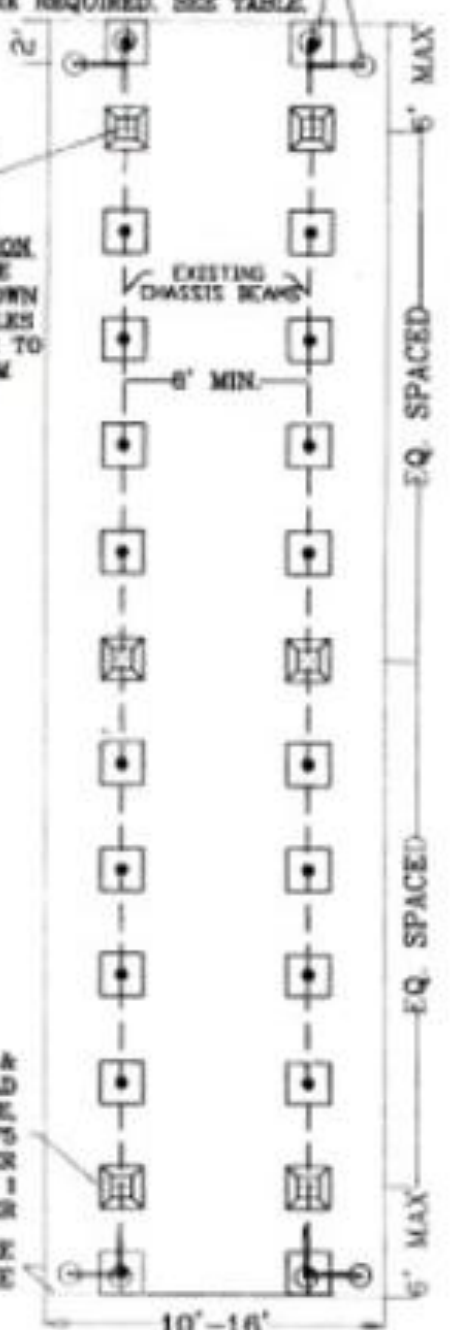
OUTLINE
OF HOME



Signed: *W.M. Weston* 10/2/18



PLAN Not to Scale
DOUBLE WIDE HOME



PLAN Not to Scale
SINGLE WIDE HOME

ENGINEERED FOUNDATION PLAN
CENTRAL PIERS - SPA 30-5F

10/02/18
SHEET F4
OF 5



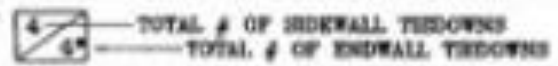
**MALIBU
REBUILDS**

HOME SIZE			30 PSF		40 PSF		40 PSF		100 PSF		100 PSF			
			110B & 110C		110C		120B		120C		130C			
MAX. ROOF LIVE LOAD (PSF)														
MAX. WIND LOAD (MPH, EXP)														
ROOF PITCH	WIDTH	LENGTH	# OF SEISMIC PIERS	# OF ROWS	# OF TIE DOWNS	# OF SEISMIC PIERS	# OF ROWS	# OF TIE DOWNS	# OF SEISMIC PIERS	# OF ROWS	# OF TIE DOWNS	# OF SEISMIC PIERS	# OF ROWS	# OF TIE DOWNS
4:12	10'-16'	UP TO 48'	4	2 ROWS	4	4	2 ROWS	4	4	2 ROWS	4	4	2 ROWS	4
		48.5'-60'	6	3 ROWS	4	6	3 ROWS	4	6	3 ROWS	4	6	3 ROWS	4
		60.5'-78'	8	4 ROWS	4	8	4 ROWS	4	8	4 ROWS	4	8	4 ROWS	4
3:12	20'-28'	UP TO 56'	8	2 ROWS	0	4	2 ROWS	4	4	2 ROWS	4	8	3 ROWS	4
		56.5'-66'	8	2 ROWS	0	4	2 ROWS	4	8	3 ROWS	4	8	3 ROWS	4
		66.5'-78'	12	3 ROWS	0	8	3 ROWS	4	8	3 ROWS	4	12	4 ROWS	4
	30.5'-32'	UP TO 56'	8	2 ROWS	0	4	2 ROWS	4	4	2 ROWS	4	8	3 ROWS	4
		56.5'-66'	8	2 ROWS	0	12	3 ROWS	0	12	3 ROWS	0	12	4 ROWS	4
		66.5'-78'	12	3 ROWS	0	12	3 ROWS	0	12	3 ROWS	0	12	4 ROWS	4
4:12	20'-30'	UP TO 60'	8	2 ROWS	0	12	3 ROWS	0	8	3 ROWS	4	8	3 ROWS	4
		60.5'-66'	8	2 ROWS	0	12	3 ROWS	0	8	3 ROWS	4	8	3 ROWS	4
		66.5'-78'	12	3 ROWS	0	12	3 ROWS	0	8	3 ROWS	4	12	4 ROWS	4
	30.5'-32'	UP TO 56'	8	2 ROWS	0	12	3 ROWS	0	8	3 ROWS	4	8	3 ROWS	4
		56.5'-66'	8	2 ROWS	0	12	3 ROWS	0	8	3 ROWS	4	12	4 ROWS	4
		66.5'-78'	12	3 ROWS	0	12	3 ROWS	0	8	3 ROWS	4	12	4 ROWS	4
4:12	30'-43'	UP TO 48'	8	2 ROWS	0	8	3 ROWS	4	8	3 ROWS	4	8	3 ROWS	4
		48.5'-60'	12	3 ROWS	0	8	3 ROWS	4	8	3 ROWS	4	12	4 ROWS	4
		60.5'-66'	12	3 ROWS	0	8	3 ROWS	4	8	3 ROWS	4	16	5 ROWS	4
	66.5'-78'	16	4 ROWS	0	12	4 ROWS	4	12	4 ROWS	4	14	5 ROWS	6	
	43.5'-48'	UP TO 48'	12	3 ROWS	0	8	3 ROWS	4	8	3 ROWS	4	12	4 ROWS	4
		48.5'-56'	12	3 ROWS	0	8	4 ROWS	4	8	3 ROWS	4	12	4 ROWS	4
56.5'-66'		12	3 ROWS	0	8	5 ROWS	4	12	4 ROWS	4	14	5 ROWS	6	
66.5'-78'	16	4 ROWS	0	12	4 ROWS	4	12	4 ROWS	4	14	5 ROWS	6		

TABLE NOTES
 TO USE TABLE, FIND HOME SIZE (SINGLE, DOUBLE OR TRIPLE), THEN FIND ROOF PITCH, WIDTH AND LENGTH. FOLLOW ROW ACROSS TO DESIGN (ROOF) LOAD THEN DESIGN WIND LOAD. READ TOTAL NUMBER OF C.P. SEISMIC PIERS, # OF ROWS & TIEDOWNS REQUIRED. SEE PLAN, SHEETS F3 & F4, FOR PLACEMENT OF C.P. SEISMIC PIERS AND TIEDOWN SPECIFICATIONS.

FOR EXAMPLE, FOR A 24'x70' HOME WITH A 3:12 ROOF PITCH, DESIGN SNOW LOAD OF 30 PSF & 110 MPH, EXPOSURE C WIND LOAD, READ 12 C.P. SEISMIC PIERS, PLACED IN 3 ROWS, WITH 0 C.P. ANCHOR PIER TIEDOWNS. LAYOUT SHOWN IN DOUBLE WIDE PLAN VIEW, SHEET F4

*FOR SINGLE WIDES, WHERE TIEDOWN COLUMN IS SPLIT AS SHOWN, INSTALL 2 EARTH ANCHOR TIEDOWNS AT EACH ENDWALL. TOTAL # OF ENDWALL TIEDOWNS PER HOME IS INDICATED IN TABLE BY *



HOME SIZES REFER TO NOMINAL SIZES THAT ARE COMMONLY MANUFACTURED. IF THE EXACT SIZE OF THE HOME IS NOT LISTED, CHECK THE NEXT HIGHER OR LOWER SIZE AND USE THE ONE THAT REQUIRED MORE PIERS.

THE TIEDOWNS SHALL BE LISTED & INSTALLATION INSTRUCTIONS SHALL BE ON SITE AT TIME OF INSPECTION.

THIS PLAN MAY BE USED WITH C.P. SEISMIC PIERS UP TO THE 18 INCH PIER SIZE. THE MAXIMUM HEIGHT OF THE C.P. SEISMIC AND C.P. ANCHOR PIERS IS 23" MEASURED FROM THE BASE PLATE TO THE TOP PLATE.

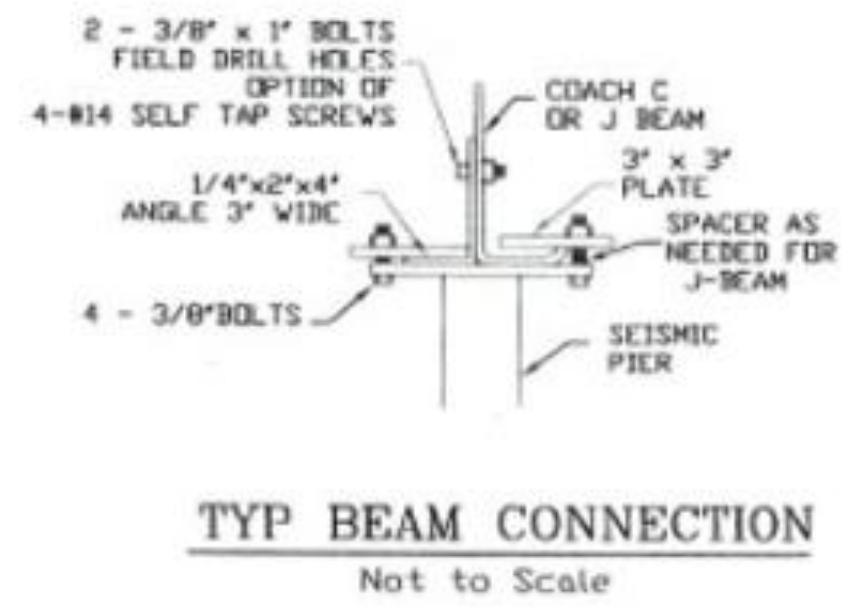
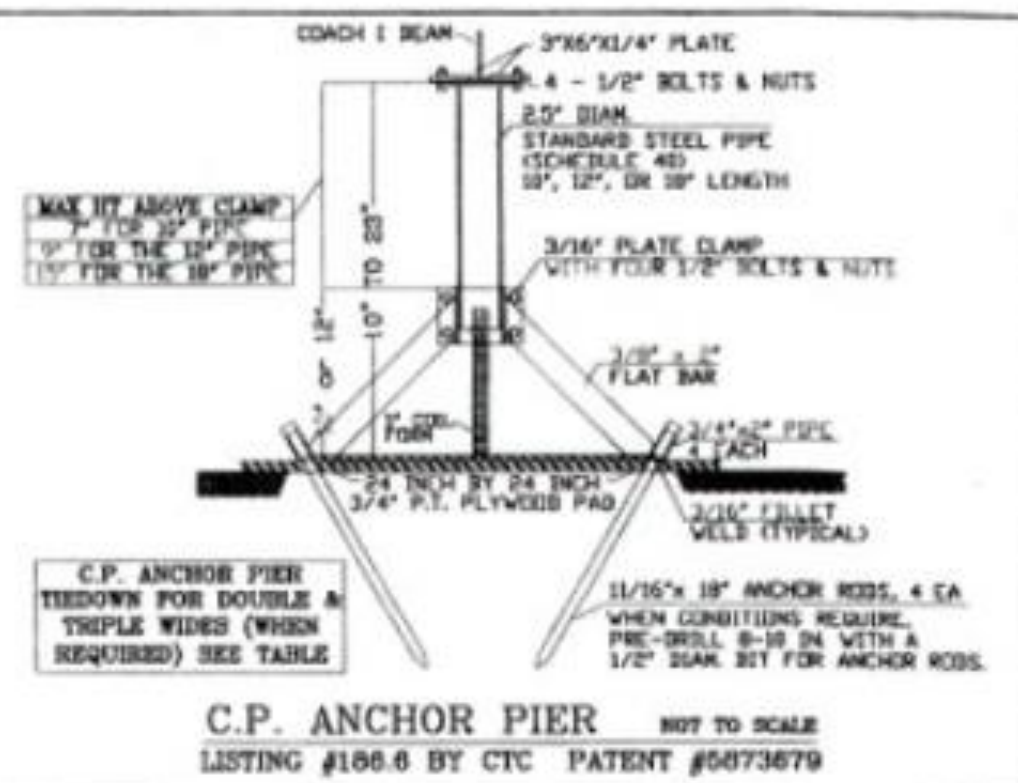
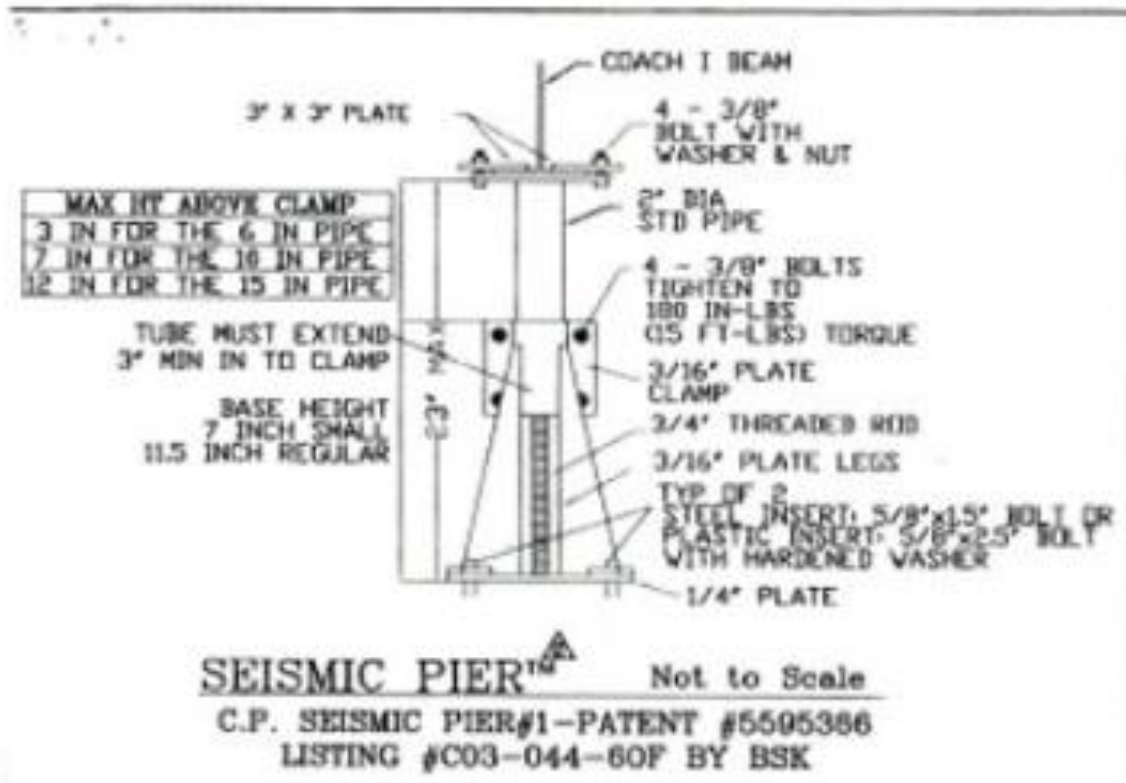


ENGINEERED FOUNDATION PLAN
 CENTRAL PIERS - SPA 30-5F

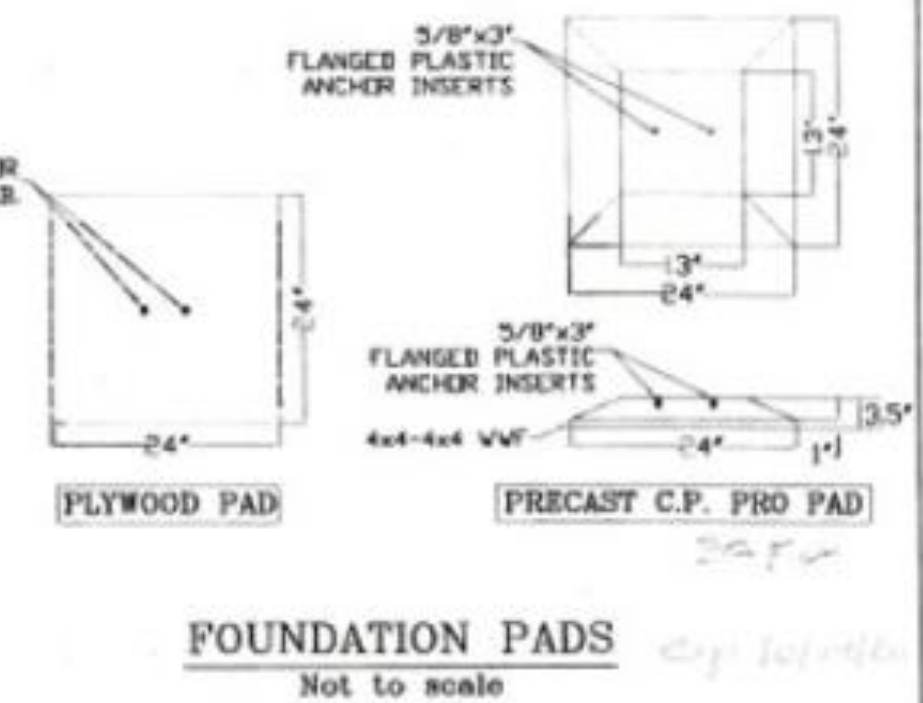
10/02/18
 SHEET F5
 OF 6



MALIBU REBUILDS



REGISTERED PROFESSIONAL ENGINEER
 VALLETTE M. WILSON
 No. 60245
 Civil
 STATE OF CALIFORNIA
 Signed: 10/2/18



ENGINEERED FOUNDATION PLAN
 CENTRAL PIERS - SPA 30-5F

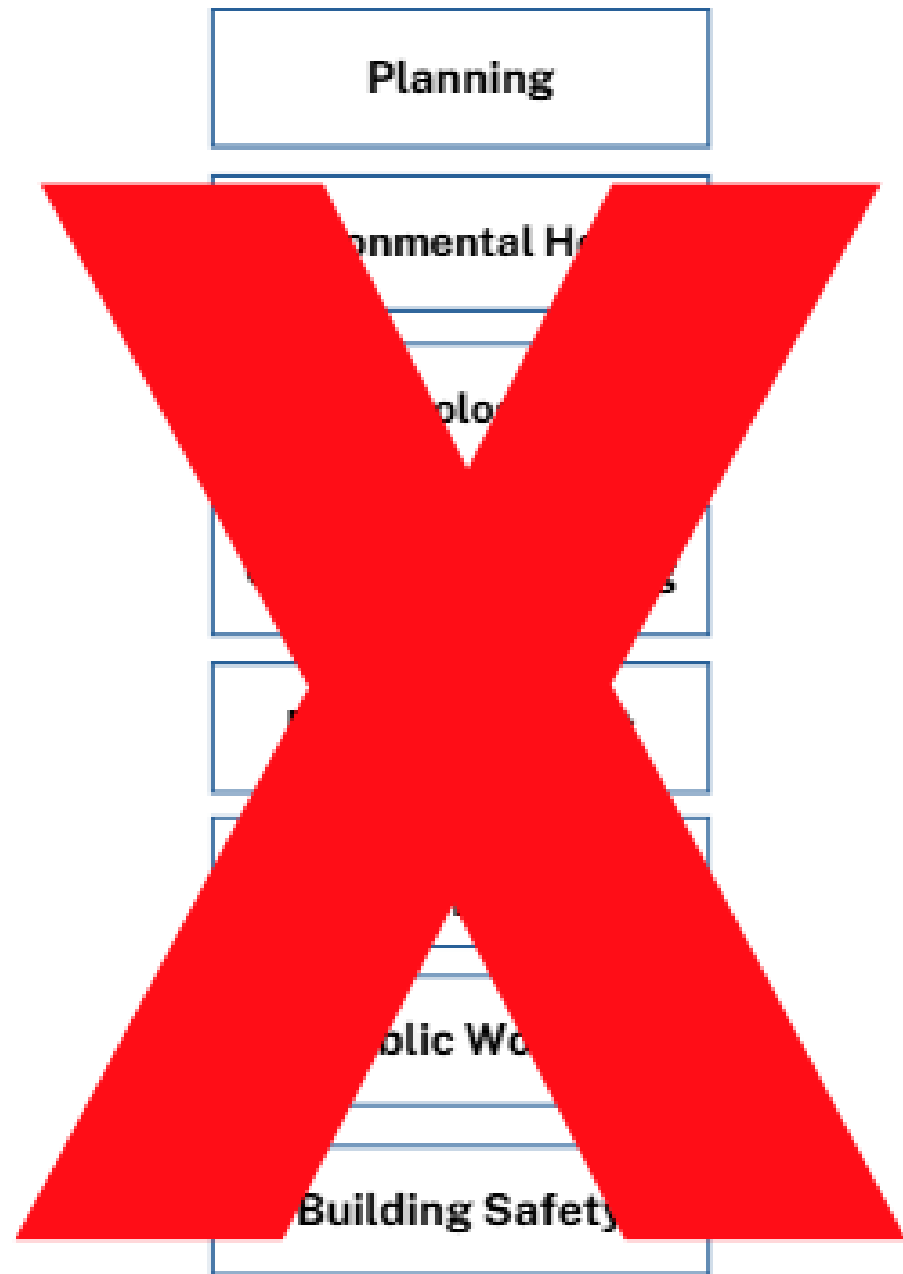
10/02/18
 SHEET F6
 OF 6

REVIEW PROCESS, PV, AND PV +10%

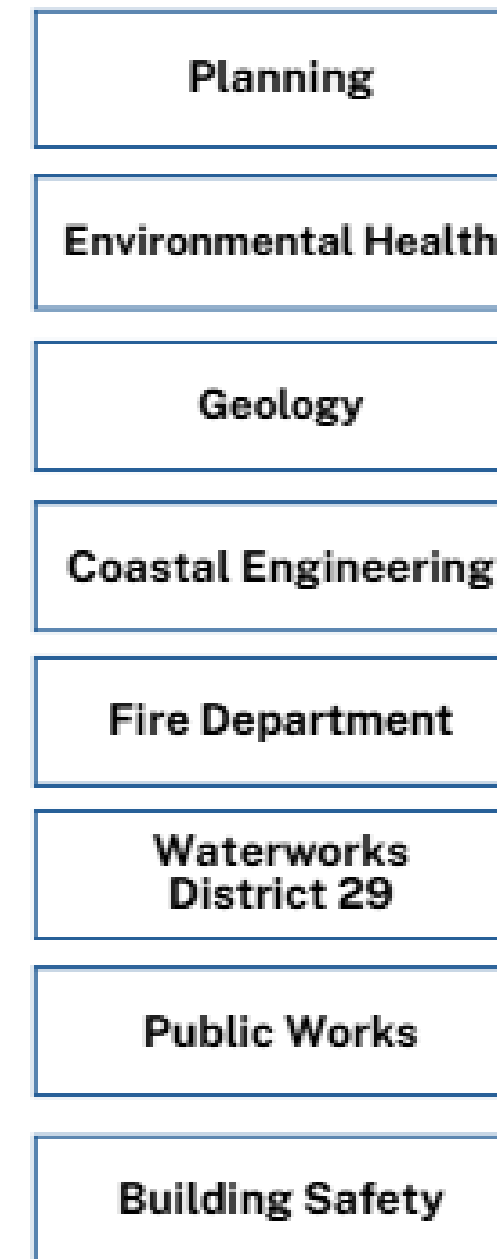
PALISADES FIRE



Plan Check Process



Building Plan Check



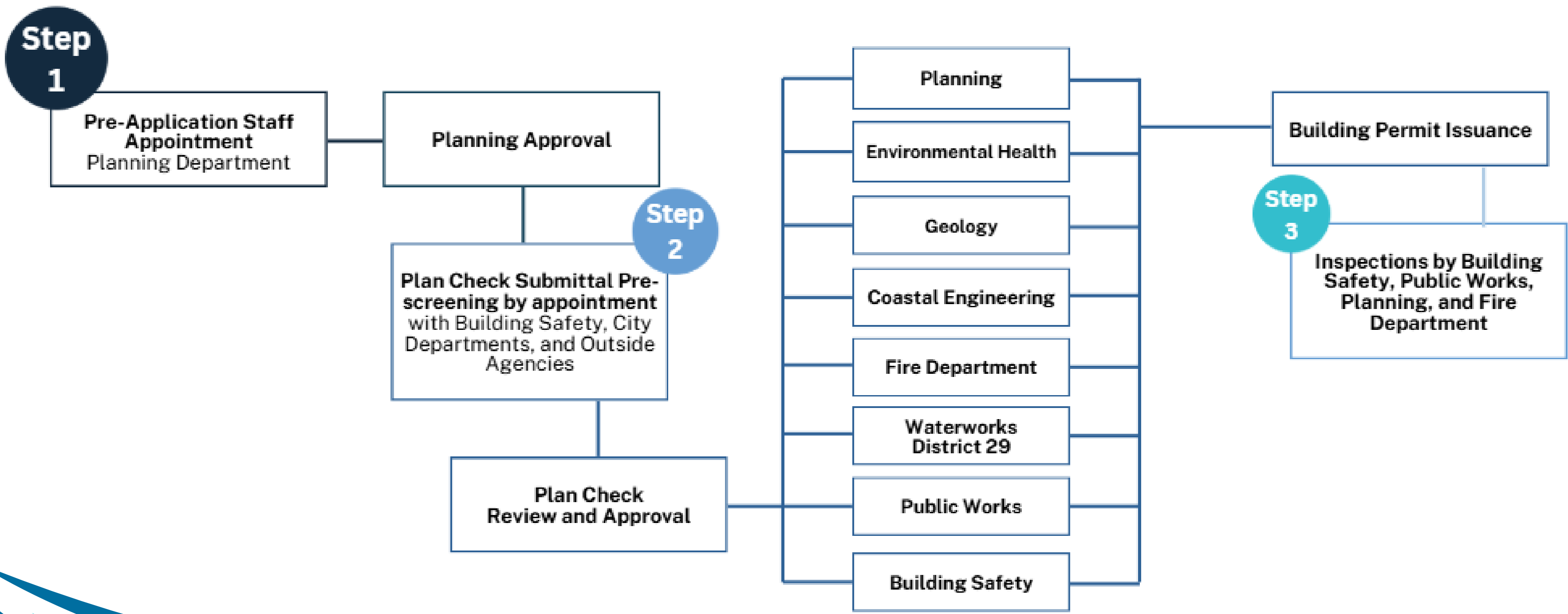
***Geographically sensitive areas may require minor review from other departments in the planning phase**

HOW TO GET READY TO SUBMIT

1. Have Debris Removal Completed
2. Find Your Records
3. Work with Your Design Professional
4. Prepare your Planning and Building Safety Plans to Obtain your Permits
5. Construction and Inspections
6. Move In



The following is the **3 step process** your project will go through for **approval and permitting**.



STEP 1: PLANNING



PLANNING

The What and Where:

- Rebuild Center
 - 23805 Stuart Ranch Road, Suite 240
- Development Portal
 - malibucity.org/858/Development-Portal

MALIBU CALIFORNIA

Welcome to the City of Malibu Development Portal

What Would You Like to Do Today?

- Rebuilds**
Initiate your rebuild with the Malibu Rebuild team
You can request assistance with the rebuild process here.
Initiate Request
- Planning**
Initiate Planning Applications
You can apply online for a new, revised submittal or substantial conformance application.
New Application
New ADU-Only
Revised Submittal
Substantial Conformance
- Building Safety**
Initiate a Permit or Plan Check Applications
You can apply online for a Permit or Plan Check application.
New Application
Rapid Permit
Residential Solar Review
OWTS Plan Check
Plan Check Resubmittal
- Building Inspections**
Schedule Inspections
Provide the project site address, permit number, type of inspection, day and date for inspection, contact name, and phone number.
Inspection Status
Schedule Inspection
- Open Code Enforcement**
View Open Code Enforcement Cases
Search by address to view open Code Enforcement cases.
Search Cases
- Public Document Search**
agendas, minutes, and resolutions, as well as building permits, geology reports, and septic approvals.
Apply





STEP 2: PLANNING APPROVAL



STEP 2: PLANNING APPROVAL

- **What key information is Planning looking for?**
 - **PV* and PV + 10%**
 - Documentation verifying existing structure
 - Sets of plans: site plan, floor plans, elevations, survey*
 - Highlight on the plans where the 10% addition is located
- **PLEASE NOTE:**
 - Addition must comply with all current city codes and standards
 - Conformance review within 7-10 days; missing info could require revisions

***PV = Planning Verification**



STEP 2: PLANNING APPROVAL

- **APR* + SPR*** may be needed for new height above 18 feet (Non-beachfront)
- Completely new house/re-design: **CDP***

***APR= Administrative Plan Review**

***SPR= Site Plan Review**

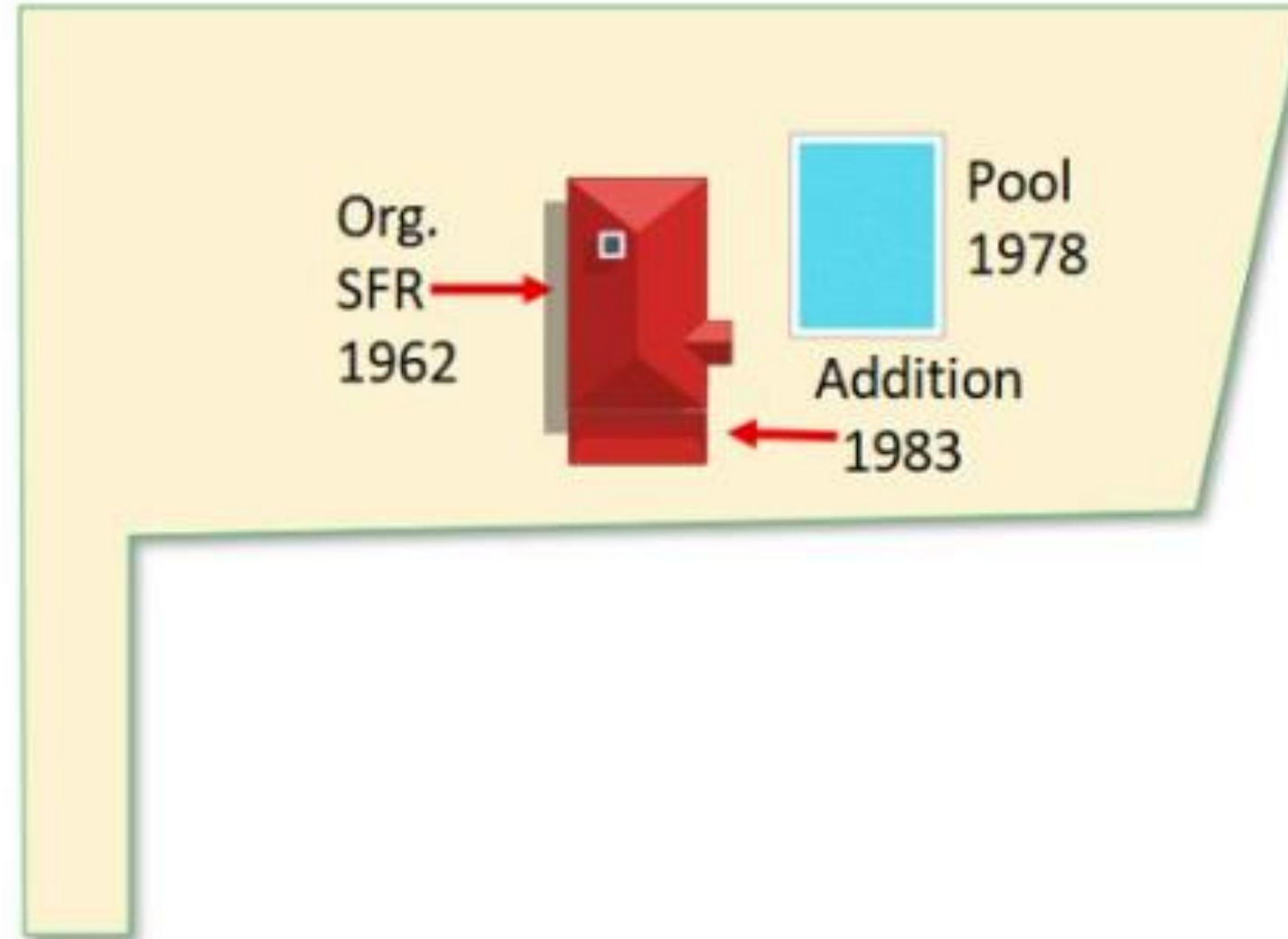
***CDP= Coastal Development Permit**



EXAMPLES OF INFO FOR PLANNING



Previous stamped and approved plans

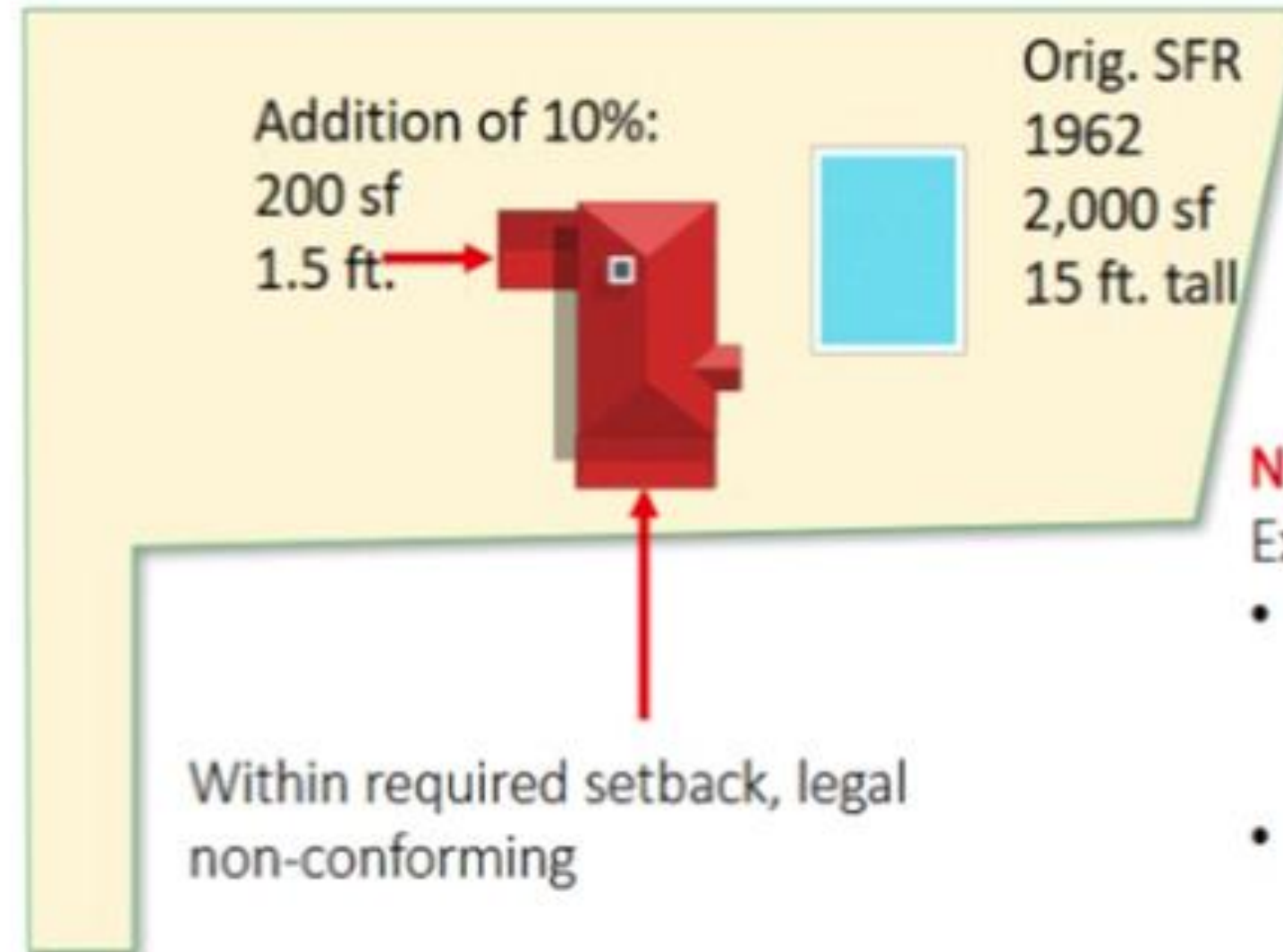


Previous finalized permits

PERMIT NO.	ISSUE DATE	ISSUED TO	ISSUED BY	PERMIT TYPE	STATUS
12345	1962	John Doe	City of Malibu	Single-Family Residence	Finalized
67890	1978	Jane Smith	City of Malibu	Pool	Finalized
11111	1983	Bob Johnson	City of Malibu	Single-Family Residence Addition	Finalized
22222	1985	Charlie Brown	City of Malibu	Single-Family Residence	Finalized
33333	1988	Diana Prince	City of Malibu	Single-Family Residence	Finalized
44444	1990	Frank White	City of Malibu	Single-Family Residence	Finalized
55555	1992	Grace Black	City of Malibu	Single-Family Residence	Finalized
66666	1995	Henry Green	City of Malibu	Single-Family Residence	Finalized
77777	1998	Ivy Blue	City of Malibu	Single-Family Residence	Finalized
88888	2000	Jack Yellow	City of Malibu	Single-Family Residence	Finalized
99999	2002	Karen Purple	City of Malibu	Single-Family Residence	Finalized
00000	2005	Liam Orange	City of Malibu	Single-Family Residence	Finalized

WHAT DOES +10% MEAN?

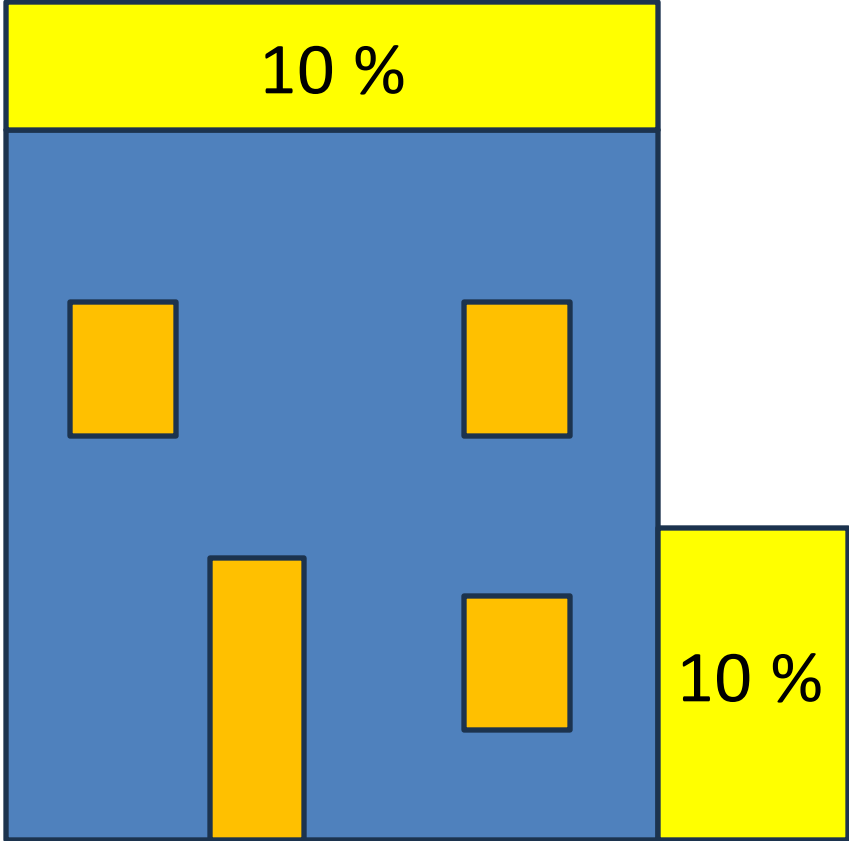
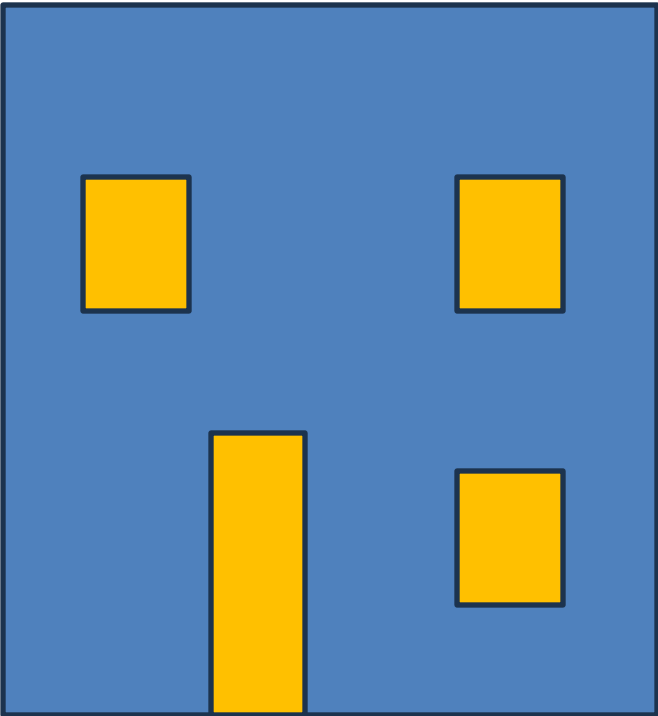
You can also expand any destroyed accessory structures by 10% each



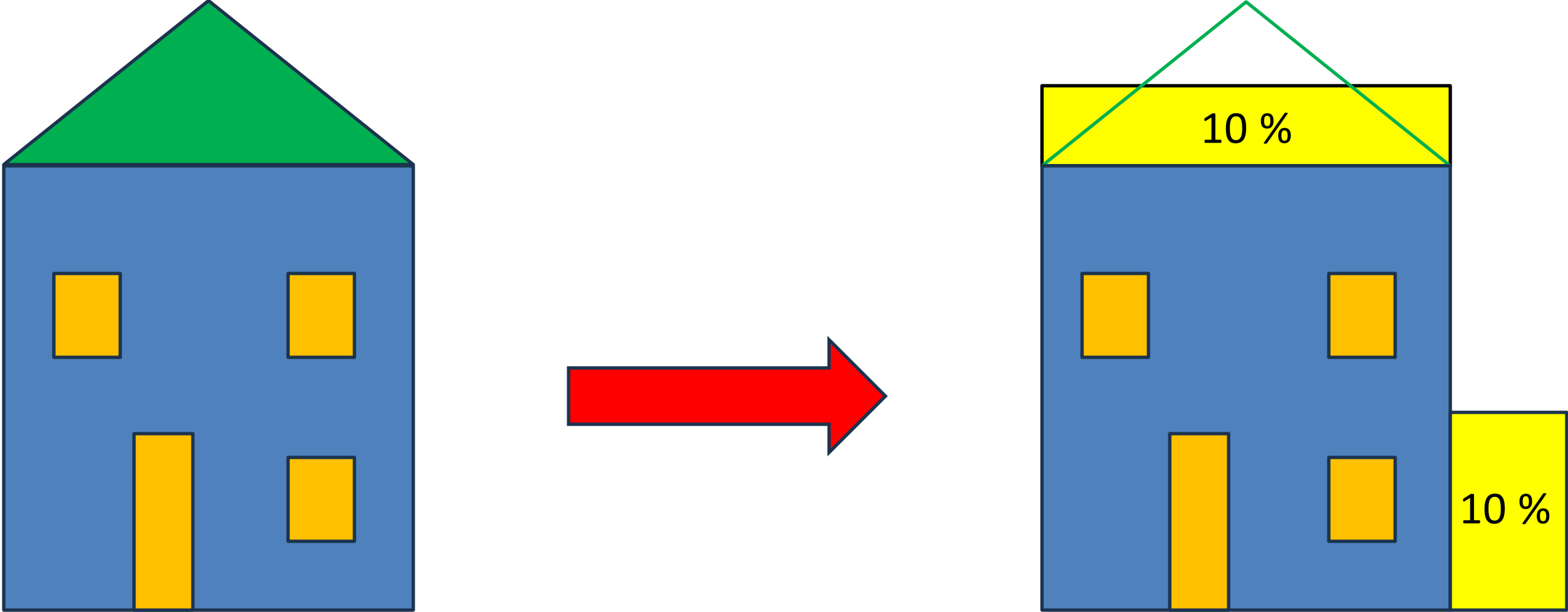
NOTE:

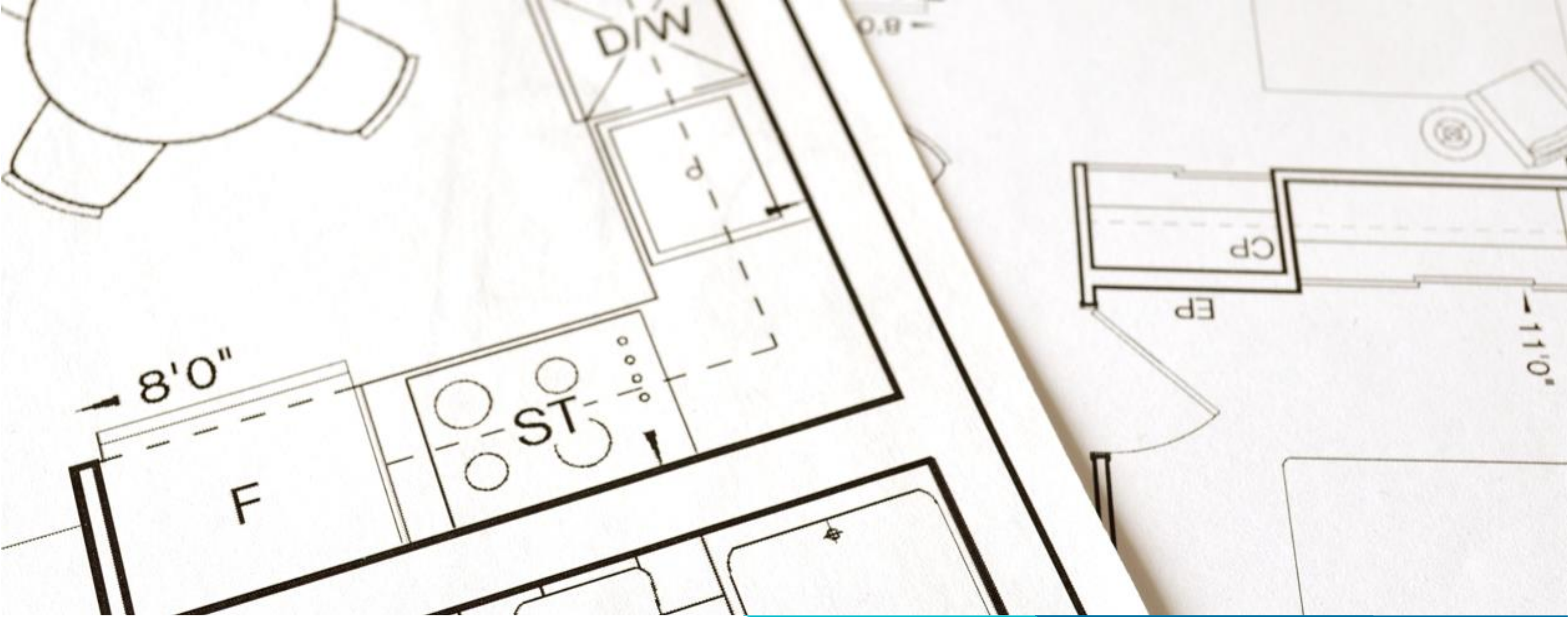
- Expansion of 10% is only allowed if:
- New area meets development standards(*cannot expand any non-conformities*)
 - Property is under max TDSF and Impermeable

WHAT DOES +10% MEAN?



WHAT DOES +10% MEAN?





STEP 2: BUILDING PLAN CHECK



BUILDING SAFETY SUBMITTAL



BUILDING PLAN CHECK

Building Plans Review:

- Architectural and Energy
- Structural
- MEP
- Environmental Health
- Retaining Wall/Structural
- Grading/Drainage
- Fire Department Review



HISTORY OF THE BUILDING CODES



California Building Code Part 2 of Title 24	Effective Date	Model Code
1981	See history note appendix	UBC 1979
1985	See history note appendix	UBC 1979, 1982, 1985
1989	July 1, 1989	UBC 1988
1992	July 1, 1992	UBC 1991
1995	January 1, 1996	UBC 1994
1998	July 1, 1999	UBC 1997
2001	November 1, 2002	UBC 1997
2004	2001 CBC remains in effect	
2007	January 1, 2008	IBC 2006
2010	January 1, 2011	IBC 2009
2013	January 1, 2014	IBC 2012
2016	January 1, 2017	IBC 2015
2019	January 1, 2020	IBC 2018
2022	January 1, 2023	IBC 2021



CALIFORNIA CODE OF REGULATIONS

[Title 1. General Provisions](#)

[Title 2. Administration](#)

[Title 3. Food and Agriculture](#)

[Title 4. Business Regulations](#)

[Title 5. Education](#)

[Title 7. Harbors and Navigation](#)

[Title 8. Industrial Relations](#)

[Title 9. Rehabilitative and Developmental Services](#)

[Title 10. Investment](#)

[Title 11. Law](#)

[Title 12. Military and Veterans Affairs](#)

[Title 13. Motor Vehicles](#)

[Title 14. Natural Resources](#)

[Title 15. Crime Prevention and Corrections](#)

[Title 16. Professional and Vocational Regulations](#)

[Title 17. Public Health](#)

[Title 18. Public Revenues](#)

[Title 19. Public Safety](#)

[Title 20. Public Utilities and Energy](#)

[Title 21. Public Works](#)

[Title 22. Social Security](#)

[Title 23. Waters](#)

 [Title 24. Building Standards Code](#) 

[Title 25. Housing and Community Development](#)

[Title 26. Toxics](#)

[Title 27. Environmental Protection](#)

[Title 28. Managed Health Care](#)



TITLE 24 - BUILDING STANDARDS CODE*

- Part 1 - California Administrative Code
- Part 2 - California Building Code
- Part 2.5 – California Residential Code
- Part 3 – California Electrical Code
- Part 4 – California Mechanical Code
- Part 5 – California Plumbing Code
- Part 6 – California Energy Code
- Part 7 – **International Wildland-Urban Interface Code (IWUIC) adopted on 2/26/2025. (Previously vacant)**
- Part 8 – California Historical Building Code
- Part 9 – California Fire Code
- Part 10 – California Existing Building Code
- Part 11 – California Green Building Standards Code
- Part 12 – California Referenced Standards Code



***CODE UPDATE: JANUARY 1, 2026**



STRUCTURAL CODE STANDARDS

- ASCE 7-16 - Minimum Design Loads for Building and Other Structures
- AWC (American Wood Council)
 - 2018 NDS - National Design Specifications for Wood Construction
 - 2021 SDPWS - Special Design Provisions for Wind and Seismic
- ACI 318-319 - Building Code Requirements for Structural Concrete
- AISC - Steel Construction Manual
- TMS 402 - Building Code for Masonry Structures



DOCUMENTS REQUIRED FOR SUBMITTAL

Plans:

- Architectural Plans (Cover Sheet, Site Plan, Floor Plans, Roof Plan, Elevations, Sections, Window and Door Schedules, Assembly Detail Sheets)
- Site Survey
- Energy Calculations (CF1R)
- Mechanical, Electrical, and Plumbing Plans
- Structural Plans (Notes and Specification Sheets, Foundation Plan, Framing Plans, Detail Sheets)
- Civil Plans (Grading and Drainage)
- Site Retaining Wall Sheets
- 2023 Type V Standard Sheets (optional)
- 2023 LA County Green Building Standard Sheets (Optional)
- Landscape Irrigation Plan
- Outdoor Lighting Plan/Dark Sky Ordinance
- LA County Fire Department approved plans (Occupancy, Grading and Access, and Fuel Modification)
- Certified Fixture Unit Worksheet
- OWTS Plot Plan

Supporting Documentation:


- Structural Calculations
- Foundation Feasibility Report
- Geotechnical and/or Geology Reports
- Coastal Engineering Report
- Approval Listings
- OWTS Fire Damage Assessment Form



ARCHITECTURAL PLAN - COVER SHEET

PROJECT
SAMPLE PROJECT
 PROJECT ADDRESS

OWNER
 Owner's Name
 Owner's Street Address



SYMBOL LEGEND

INTERIORS

- Architect's Office
- Structural Engineer
- MEP Engineer
- Interior Designer
- Architectural Detail

PROJECT TEAM

ARCHITECT
 NAME OF ARCHITECT
 PROJECT ADDRESS
 CONTACT: NAME OF CONTACT

STRUCTURAL ENGINEER
 PROJECT ADDRESS
 CONTACT: NAME OF CONTACT

MEP ENGINEER
 PROJECT ADDRESS
 CONTACT: NAME OF CONTACT

INTERIOR DESIGNER
 PROJECT ADDRESS
 CONTACT: NAME OF CONTACT

ZONING & BUILDING SUMMARY

PROPERTY INFO	REMARKS
PROJECT NO.	123456
DATE	12/31/2023
LOT AREA	10,000 SQ. FT.
LOT COVER	30%
HEIGHT	35 FT.
USE	COMMERCIAL
PERMITS	BLDG, PLUMB, MECH, ELEC
CONTRACTOR	ABC CONSTRUCTION

PROJECTION SCOPE

UNDER SEPARATE PERMIT

APPLICABLE CODES

GENERAL NOTES

DRAWING INDEX

NO.	TITLE
A-1.00	PROJECT INFORMATION
A-1.01	GENERAL NOTES
A-1.02	FOUNDATION PLAN
A-1.03	FLOOR PLAN
A-1.04	CEILING PLAN
A-1.05	ELECTRICAL PLAN
A-1.06	Mechanical Plan
A-1.07	Plumbing Plan
A-1.08	Architectural Details

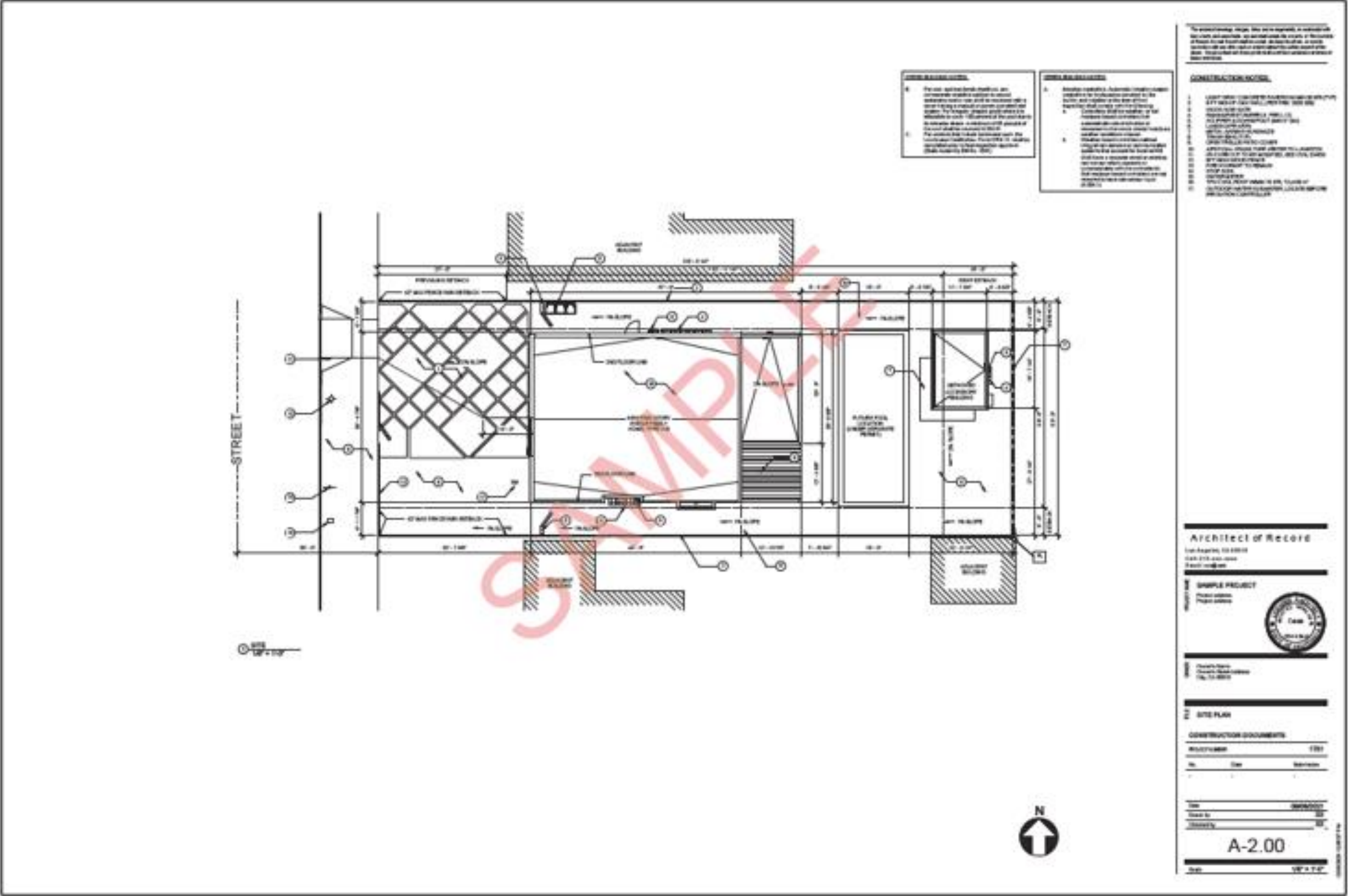
Architect of Record
 License No. 12345
 State of California

CONSTRUCTION DOCUMENTS
 PROJECT NO. 12345
 SHEET NO. A-1.00

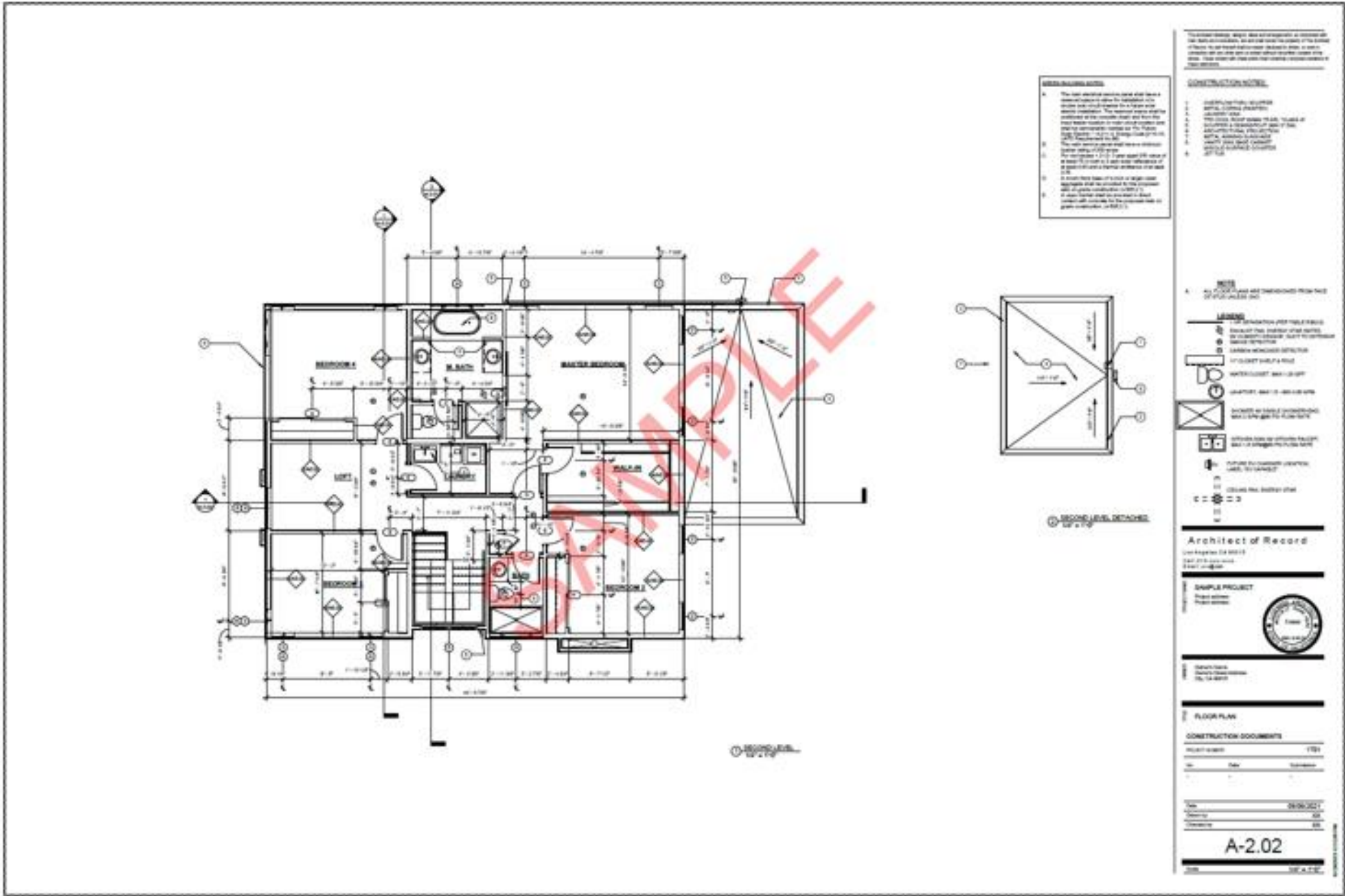
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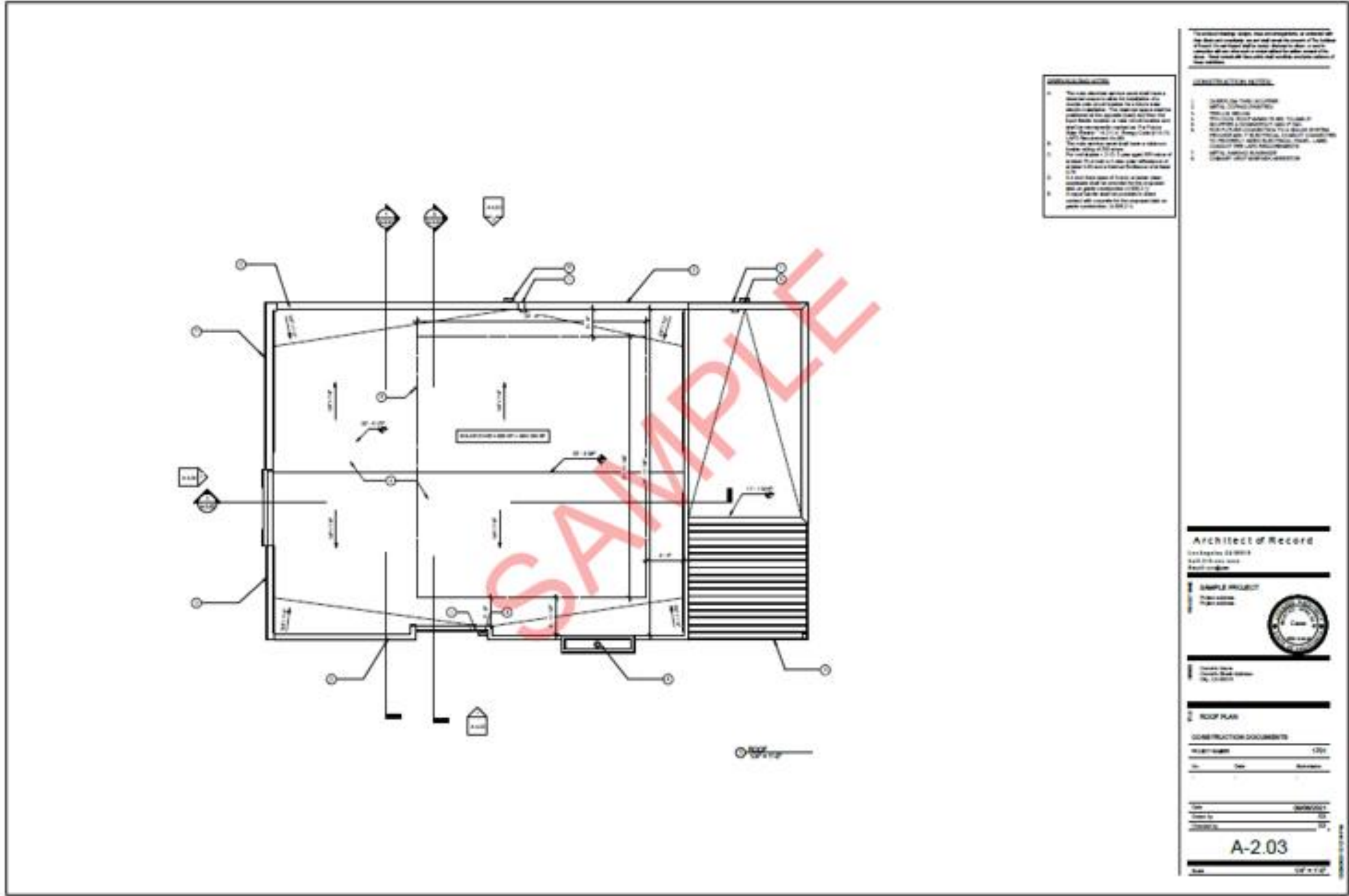
ARCHITECTURAL PLAN - SITE PLAN



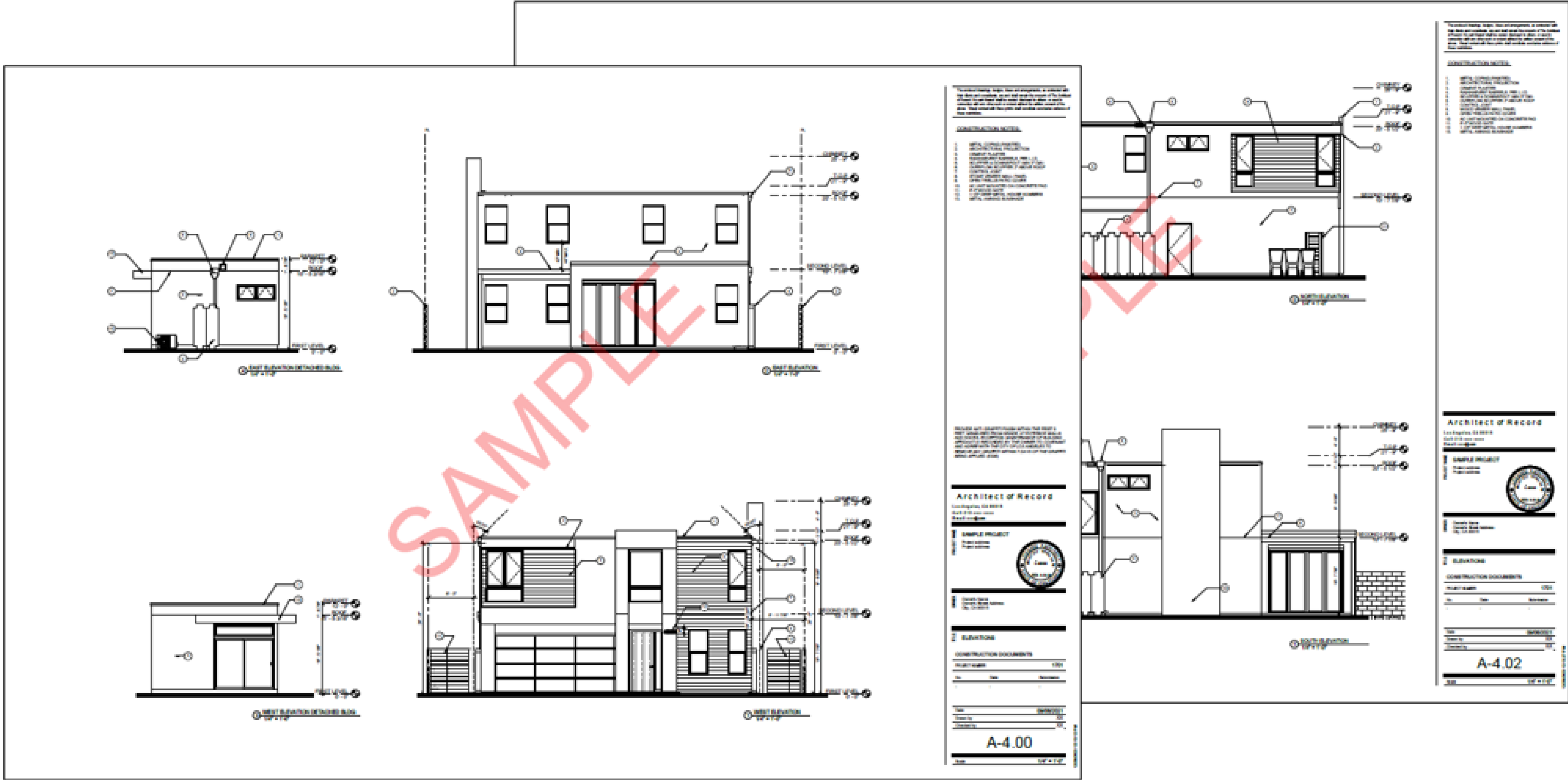
ARCHITECTURAL PLAN - FLOOR PLANS



ARCHITECTURAL PLAN - ROOF PLAN



ARCHITECTURAL PLAN - ELEVATIONS



**CHAPTER 7A
WILDFIRE
EXPOSURE
REQUIREMENTS
TO BE NOTED ON
ELEVATIONS.**



ARCHITECTURAL PLAN - SECTIONS

The image displays two architectural sections, A-3.01 and A-3.02, for a two-story building. Section A-3.01 is a full cross-section showing the interior layout, including rooms, a staircase, and structural elements like walls, floors, and roof. Section A-3.02 is a partial section focusing on a specific part of the building, possibly an entrance or a corner. Both sections include detailed annotations, dimensions, and level markers. Below each section is a title block containing the following information:

- Architect of Record:** [Name]
- Project Name:** [Name]
- Section:** A-3.01 and A-3.02
- Scale:** [Scale]
- Revision:** [Revision]
- Date:** [Date]

Specifications for the sections include:

- 1. [Specification]
- 2. [Specification]
- 3. [Specification]
- 4. [Specification]
- 5. [Specification]



ARCHITECTURAL PLAN - WINDOW AND DOOR SCHEDULES

WINDOW SILL DETAIL
2" x 1/2"

WINDOW HEAD/JAMB DETAIL
2" x 1/2"

WINDOW SCHEDULE																		
NO.	TYPE	Type	Comments	Type	MINIMUM OPENING DIMENSIONS		MIN HEIGHT	GLAZING	TYPICAL	FINISH	OPERABLE	INSULATION	GLASS	SILL	FINISHES	MARKING	Notes	
					WIDTH	HEIGHT												
1	A	Single Hung	SP407	2" x 2"	2" x 2"	2" x 2"	LOW-IR	CLR	YFS	VTL	NO	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21
2	A	Single Hung	SP407	2" x 2"	2" x 2"	2" x 2"	LOW-IR	CLR	YFS	VTL	NO	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21
3	B	Overhead	SP407	2" x 2"	2" x 2"	2" x 2"	LOW-IR	CLR	YFS	VTL	NO	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21
4	C	Overhead	SP407	2" x 2"	2" x 2"	2" x 2"	LOW-IR	CLR	YFS	VTL	NO	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21
5	D	Overhead	SP407	2" x 2"	2" x 2"	2" x 2"	LOW-IR	CLR	YFS	VTL	NO	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21
6	E	Overhead	SP407	2" x 2"	2" x 2"	2" x 2"	LOW-IR	CLR	YFS	VTL	NO	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21
7	F	Overhead	SP407	2" x 2"	2" x 2"	2" x 2"	LOW-IR	CLR	YFS	VTL	NO	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21
8	G	Overhead	SP407	2" x 2"	2" x 2"	2" x 2"	LOW-IR	CLR	YFS	VTL	NO	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21
9	H	Overhead	SP407	2" x 2"	2" x 2"	2" x 2"	LOW-IR	CLR	YFS	VTL	NO	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21
10	I	Overhead	SP407	2" x 2"	2" x 2"	2" x 2"	LOW-IR	CLR	YFS	VTL	NO	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21
11	J	Overhead	SP407	2" x 2"	2" x 2"	2" x 2"	LOW-IR	CLR	YFS	VTL	NO	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21
12	K	Overhead	SP407	2" x 2"	2" x 2"	2" x 2"	LOW-IR	CLR	YFS	VTL	NO	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21
13	L	Overhead	SP407	2" x 2"	2" x 2"	2" x 2"	LOW-IR	CLR	YFS	VTL	NO	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21
14	M	Overhead	SP407	2" x 2"	2" x 2"	2" x 2"	LOW-IR	CLR	YFS	VTL	NO	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21
15	N	Overhead	SP407	2" x 2"	2" x 2"	2" x 2"	LOW-IR	CLR	YFS	VTL	NO	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21
16	O	Overhead	SP407	2" x 2"	2" x 2"	2" x 2"	LOW-IR	CLR	YFS	VTL	NO	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21
17	P	Overhead	SP407	2" x 2"	2" x 2"	2" x 2"	LOW-IR	CLR	YFS	VTL	NO	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21
18	Q	Overhead	SP407	2" x 2"	2" x 2"	2" x 2"	LOW-IR	CLR	YFS	VTL	NO	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21
19	R	Overhead	SP407	2" x 2"	2" x 2"	2" x 2"	LOW-IR	CLR	YFS	VTL	NO	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21

LEGEND

AA ALUMINUM
AD ALUMINUM
CF CLUMBER
CL CLUMBER
CF CLUMBER
FF FACTORY FINISH
GL GLASS
H HANDLE
M METAL
P PAINT
PF PAINT FINISH
R REFRIGERANT
S SILL
T TYPICAL
V VERTICAL
W WOOD
YFS YFS
VTL VERTICAL
NO NO
INS-21 INSULATION

NOTE
1. VERIFY ALL DIMENSIONS AT FIELD BEFORE MANUFACTURING

WINDOW LEGEND
SP407

CONSTRUCTION NOTES

1. Verify the following conditions when window glazing is installed in the field before manufacturing:
a. Verify the window is installed in the field before manufacturing.
b. Verify the window is installed in the field before manufacturing.
c. Verify the window is installed in the field before manufacturing.
d. Verify the window is installed in the field before manufacturing.
e. Verify the window is installed in the field before manufacturing.
f. Verify the window is installed in the field before manufacturing.
g. Verify the window is installed in the field before manufacturing.
h. Verify the window is installed in the field before manufacturing.
i. Verify the window is installed in the field before manufacturing.
j. Verify the window is installed in the field before manufacturing.
k. Verify the window is installed in the field before manufacturing.
l. Verify the window is installed in the field before manufacturing.
m. Verify the window is installed in the field before manufacturing.
n. Verify the window is installed in the field before manufacturing.
o. Verify the window is installed in the field before manufacturing.
p. Verify the window is installed in the field before manufacturing.
q. Verify the window is installed in the field before manufacturing.
r. Verify the window is installed in the field before manufacturing.

HEAD/JAMB DETAIL - EXTERIOR SWING DOOR
2" x 1/2"

HEAD/JAMB DETAIL - INTERIOR SWING DOOR
2" x 1/2"

DOOR SCHEDULE																		
NO.	TYPE	Type	Comments	Type	MINIMUM OPENING DIMENSIONS		MIN HEIGHT	GLAZING	TYPICAL	FINISH	OPERABLE	INSULATION	GLASS	SILL	FINISHES	MARKING	Notes	
					WIDTH	HEIGHT												
1	A	Single	SP407	2" x 2"	2" x 2"	2" x 2"	LOW-IR	CLR	YFS	VTL	NO	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21
2	B	Double	SP407	2" x 2"	2" x 2"	2" x 2"	LOW-IR	CLR	YFS	VTL	NO	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21
3	C	Overhead	SP407	2" x 2"	2" x 2"	2" x 2"	LOW-IR	CLR	YFS	VTL	NO	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21
4	D	Overhead	SP407	2" x 2"	2" x 2"	2" x 2"	LOW-IR	CLR	YFS	VTL	NO	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21
5	E	Overhead	SP407	2" x 2"	2" x 2"	2" x 2"	LOW-IR	CLR	YFS	VTL	NO	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21
6	F	Overhead	SP407	2" x 2"	2" x 2"	2" x 2"	LOW-IR	CLR	YFS	VTL	NO	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21
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8	H	Overhead	SP407	2" x 2"	2" x 2"	2" x 2"	LOW-IR	CLR	YFS	VTL	NO	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21	INS-21
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LEGEND

AA ALUMINUM
AD ALUMINUM
CF CLUMBER
CL CLUMBER
CF CLUMBER
FF FACTORY FINISH
GL GLASS
H HANDLE
M METAL
P PAINT
PF PAINT FINISH
R REFRIGERANT
S SILL
T TYPICAL
V VERTICAL
W WOOD
YFS YFS
VTL VERTICAL
NO NO
INS-21 INSULATION

NOTES
1. ALL SECURITY OPENING SHALL COMPLY WITH SECTION 07 OF THE LOR AND/OR CURRENT BUILDING CODE INCLUDING THE FOLLOWING:
A. ALL 1 1/2" TYPE HEADERS SHALL BE ACCESSIBLE FROM OUTSIDE THE SECURED AREA WHEN THE DOOR IS CLOSED SHALL HAVE NON-REMOVABLE HEADERS.
B. DOUBLE PANES SHALL HAVE A MINIMUM 1/2" AIR SPACE BETWEEN GLAZES.
C. STRAIGHT DRAGS TO SHALL HAVE A MINIMUM 1/2" AIR SPACE BETWEEN DRAGS.
D. A LOCK BRACKET OR AN EQUIVALENT LOCK BRACKET SHALL HAVE A MINIMUM 1/2" AIR SPACE BETWEEN DRAGS.
E. CYLINDER GUARDS SHALL BE INSTALLED IN ALL CYLINDER LOCKS AND SHALL BE INSTALLED BEYOND THE FACE OF THE DOOR OR AN EQUIVALENT ACCESSIBLE TO OPERATING TOOLS.
F. PREVIOUS DRAG-CLACKING LATCH KEY OPERATED LOCKS ON EXTERIOR.
G. ALL GLAZING WITHIN 48" OF DOOR LOCK SHALL BE TREATED GLAZING.
H. DOOR STOPS OF INWARD SWING EXTERIOR DOORS SHALL BE OF THE PREVIOUS CONSTRUCTION.

DOOR TYPES
SP407

JAMB DETAIL - INTERIOR SWING DOOR
2" x 1/2"

HEAD DETAIL - INTERIOR SWING DOOR
2" x 1/2"

Architect of Record
Los Angeles, CA 90018
Tel: 213-333-3333
Fax: 213-333-3333

SAMPLE PROJECT
Project address:
Project address:

WINDOW & DOOR SCHEDULE

CONSTRUCTION DOCUMENTS
PROJECT NUMBER: 1701

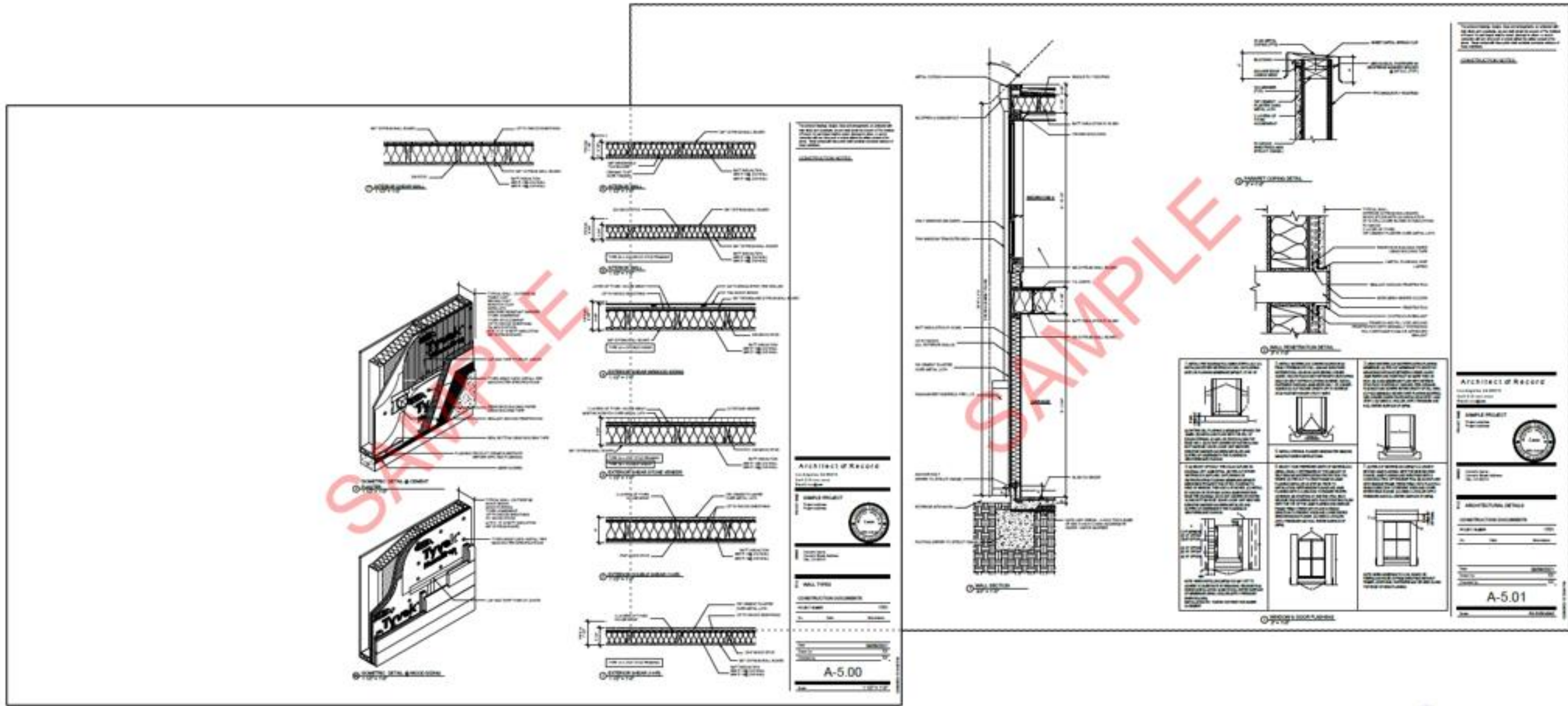
No. _____ Date _____ Revision _____

Date: 04/08/2021
Drawn by: JJC
Checked by: JJC
Designed by: JJC

A-8.01

Scale: As Indicated

ARCHITECTURAL PLAN - ASSEMBLY DETAILS



SITE SURVEY



ENERGY CALCULATIONS (CFIR)

TABLE OF CONTENTS

CONSTRUCTION NOTES

Architect of Record
Los Angeles CA 90004
444 4th Ave Suite 1000
Los Angeles CA 90013

SAMPLE PROJECT
Project Address
Project Name

BUILDING ENERGY ANALYSIS REPORT
CONSTRUCTION DOCUMENTS

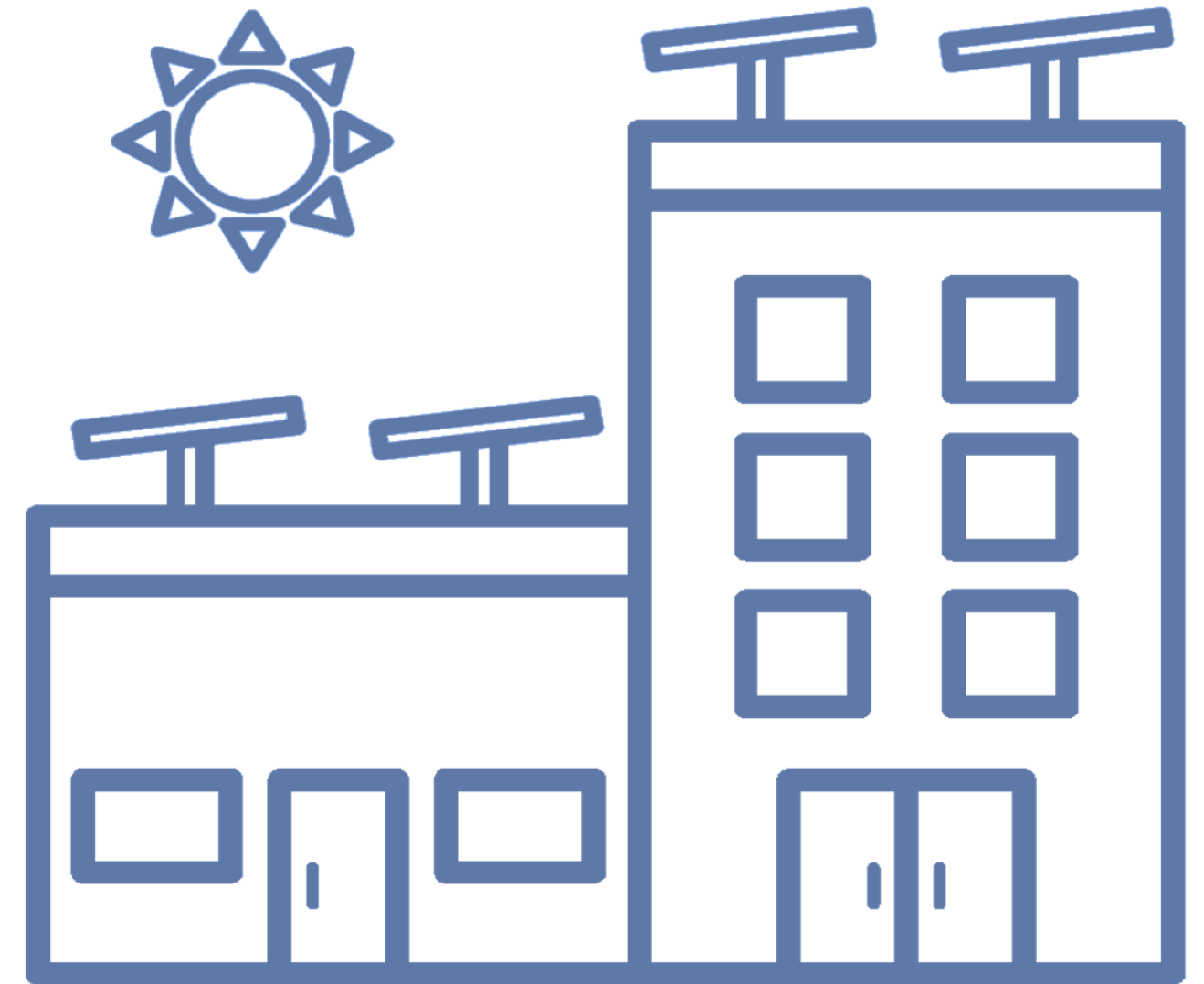
A-1.04



ENERGY CODE GOALS



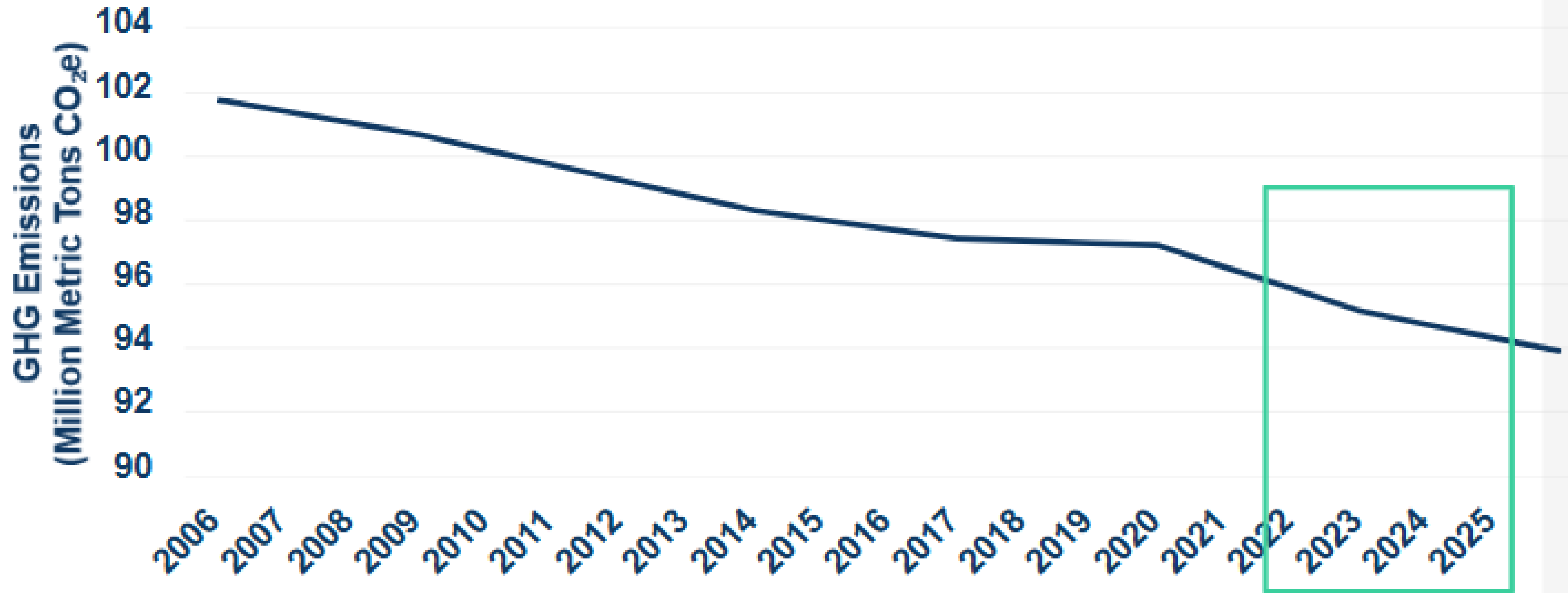
- Increase building energy efficiency cost-effectively
- Contribute to California's greenhouse gas (GHG) reduction goals
- Enable pathways for all-electric buildings
- Reduce residential building impacts on the electricity grid
- Promote demand flexibility and self-utilization of photovoltaic (PV)



ENERGY CODE ENVIRONMENTAL BENEFIT



Reduced Statewide Emissions



Source: CEC Impact Analysis 2005, 2008, 2013, 2016, 2019, 2022

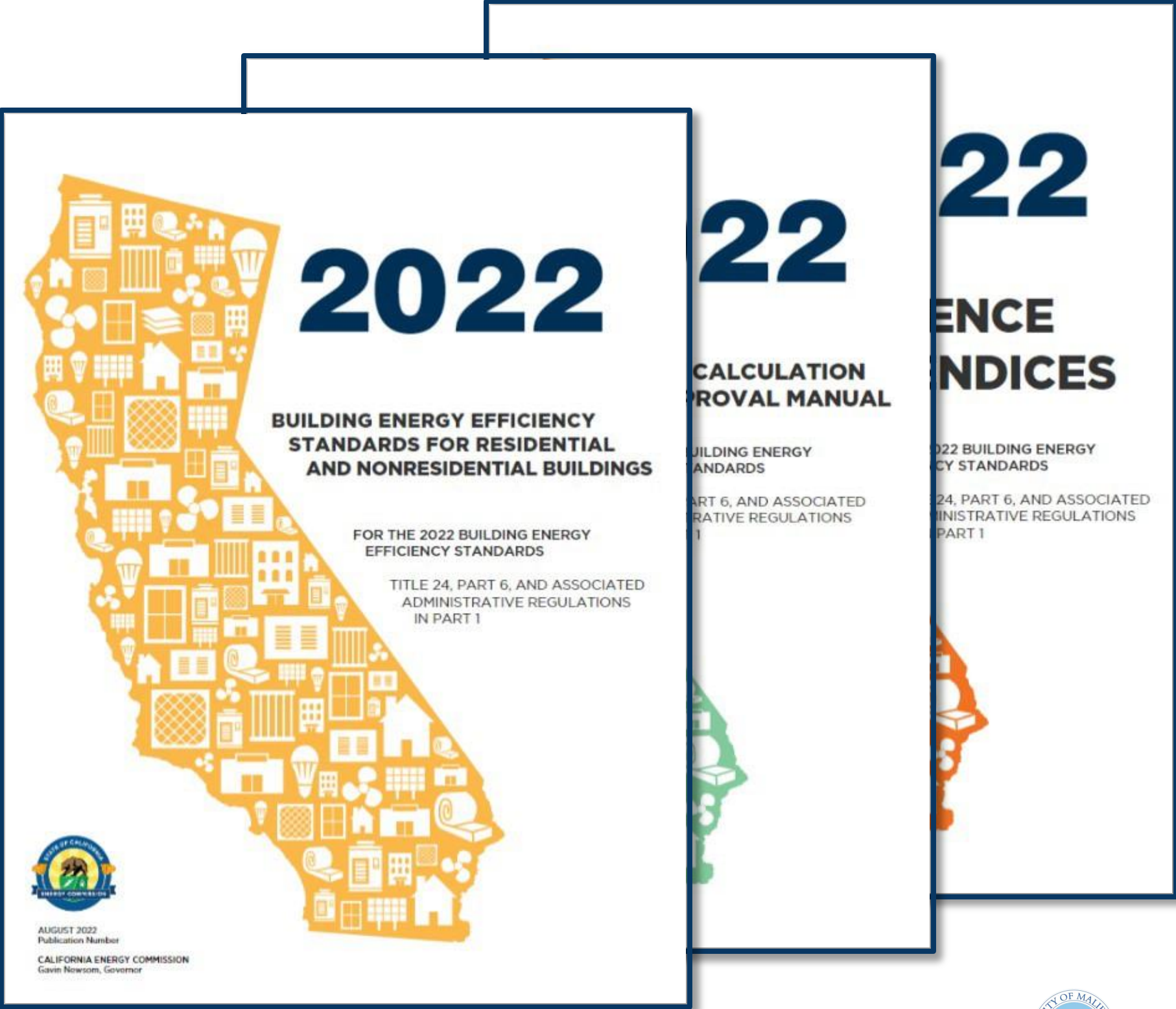


2022 ENERGY CODE



Effective January 1, 2023

- Building permit applications submitted on or after effective date
- Must use 2022 software and forms



DEMONSTRATING COMPLIANCE



Compliance forms confirm Energy Code is met

Updated for 2022

- Completed by designers, consultants, builders, contractors, technicians, HERS raters, etc.
- Submitted to enforcement agencies for verification

Type of form	Single-family	Multifamily 3 or less habitable stories	Nonresidential Multifamily 4 or more habitable stories
Certificate of compliance	CF1R	LMCC	NRCC
Certificate of installation	CF2R	LMCI	NRCI
Certificate of verification	CF3R	LMCV	NRCV
Certificate of acceptance	-		NRCA





VENTILATION AND IAQ MANDATORY REQUIREMENTS

SINGLE-FAMILY § 150.0(o)1Gi-iii

Updated for 2022

Local mechanical exhaust: Updates to incorporate ASHRAE 62.2

- **Nonenclosed kitchen**
 - Demand-controlled exhaust system meeting §150.0(o)1Giii
- **Enclosed kitchen and all bathroom**
 - Demand-controlled exhaust system meeting §150.0(o)1Giii or continuous exhaust system meeting §150.0(o)1Giv
- **Demand-controlled mechanical exhaust**
 - Control and operation
 - System must have occupant-controlled ON-OFF control or automatic control that not impedes occupant ON control
 - Ventilation rate and capture efficiency
 - Adds Table 150.0-G for ventilation rates and capture efficiency





Updated for 2022

VENTILATION AND IAQ MANDATORY REQUIREMENTS

SINGLE-FAMILY § 150.0(o)2A-C

HERS Verifications

- **Whole-dwelling unit ventilation**
 - Airflow measurement includes ASHRAE 62.2 specification for **balanced airflow rate determination and measurement of systems with multiple operating modes**
- **Kitchen local exhaust**
 - **Vented range hoods installed to meet IAQ**
 - **Adds use of capture efficiency ratings for compliance**
- **Heat recovery ventilation and energy recovery ventilation**
 - **Requires verification of HRV or ERV fan efficacy ≤ 1.0 W per cfm**



TABLE: SUMMARY OF MEP REQUIREMENTS

System	Requirement	Details
Electrical	Compliance with California Electrical code, fire-resistant wiring recommended	Includes AFCIs, GFCIs; consider backup power for fire resilience
Mechanical (HVAC)	Compliance with California Mechanical Code, fire-resistant ductwork	Design to prevent fire and smoke spread, per Section 602 of California Fire Code
Plumbing	Compliance with California Plumbing Code, fire-rated pipes recommended	Ensure fire safety, potential integration with sprinkler systems
Fire Sprinklers	Mandatory automatic sprinkler system	Required under California Fire Code and Residential Code for high hazard zones



ELECTRIC READY MANDATORY REQUIREMENTS

SINGLE-FAMILY § 150.0(t, u, v)

- **Adds Heat Pump Spaced Heater Ready**
 - 240V, 30A circuit with termination 3 feet from furnace
 - Reserve and label double pole breaker in main panel
- **Adds Electric Cooktop Ready**
 - 240V, 50A circuit with termination 3 feet from cooktop
 - Reserve and label double pole breaker in main panel
- **Adds electric clothes dryer ready**
 - 240V, 30A circuit with termination 3 feet from clothes dryer location
 - Reserve and label double pole breaker in main panel

New for 2022



ELECTRICAL PLANS

ELECTRICAL SPECIFICATIONS (AS APPLICABLE)

SECTION 16 - ELECTRICAL

16-0100 - ELECTRICAL SYSTEMS

A. SUMMARY

- 1. Section Includes:
 - a. Electrical System
 - b. Wiring
 - c. Raceways
 - d. Boxes, Cabinets, and Racks
 - e. Switchgear
 - f. Control Panels
 - g. Lighting Fixtures
 - h. Receptacles
 - i. Outlets
 - j. Telephone and Data Systems
 - k. Fire Alarm System
 - l. Security System
 - m. Other Low Voltage Systems

B. REFERENCES

- 1. National Electrical Code (NEC), 2020 Edition
- 2. California Electrical Code (CEC), 2022 Edition
- 3. California Building Code (CBC), 2022 Edition
- 4. California Fire Code (CFC), 2022 Edition
- 5. California Fire Alarm Code (CFAC), 2022 Edition
- 6. California Security Code (CSC), 2022 Edition

C. RELATED SECTIONS

- 1. 26-0100 - Low Voltage Systems
- 2. 26-0200 - Fire Alarm Systems
- 3. 26-0300 - Security Systems

D. GENERAL NOTES

1. The contractor shall be responsible for the coordination of the installation of the electrical system with the mechanical, plumbing, and other trades.
2. The contractor shall provide all labor, materials, equipment, and supervision for the installation of the electrical system.
3. The contractor shall provide all necessary permits and approvals for the electrical system.
4. The contractor shall provide all necessary safety measures for the installation of the electrical system.
5. The contractor shall provide all necessary documentation for the electrical system.

ELECTRICAL SYMBOLS LIST

SYMBOL	DESCRIPTION
(Symbol)	120V SINGLE POLE MAX 3% VOLTAGE DROP
(Symbol)	120V SINGLE POLE MAX 3% VOLTAGE DROP
(Symbol)	120V SINGLE POLE MAX 3% VOLTAGE DROP

LIGHTING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE
(Symbol)	120V SINGLE POLE MAX 3% VOLTAGE DROP	1	1000	1000
(Symbol)	120V SINGLE POLE MAX 3% VOLTAGE DROP	1	1000	1000

SINGLE DWELLING RESIDENTIAL CALCULATION

LOAD CALCULATIONS

OPTIONAL METHOD - NEC 220.30

GROSS FLOOR AREA: 7771 sq ft

(A) GENERAL LOADS - Per 220.11(C), Table 220.12, 220.14(B)

General Lighting and Receptacles: 7771 sq ft x 3 VA/sq ft = 23313 VA

Small Appliance Circuit: 1200 VA x 2 = 2400 VA

Laundry Circuit: 1500 VA x 1 = 1500 VA

Sub-Totals: 27213 VA

NEC Demand Factor: 75%

General Load Demand: 20410 VA

(B) OTHER LOADS

1) Fixed In-Place Appliances (NEC 220.53)

Dishwasher: 1500 VA

Garage Door Opener: 1200 VA

Garage Disposal: 1100 VA

Fridge: 1500 VA

Microwave: 1500 VA

Jacuzzi: 10000 VA

Total: 17300 VA

PANEL "A"

LOAD	TYPE	VA	AMPS	WIRE SIZE	TERMINAL
General Lighting	23313	104	12	12	1
Small Appliance	2400	10	1	14	2
Laundry	1500	6	1	14	3
Sub-Totals	27213	120	13	12	1

PANEL "B"

LOAD	TYPE	VA	AMPS	WIRE SIZE	TERMINAL
Garage Door Opener	1200	5	1	14	1
Garage Disposal	1100	5	1	14	2
Fridge	1500	6	1	14	3
Microwave	1500	6	1	14	4
Jacuzzi	10000	45	1	12	1
Sub-Totals	17300	67	7	12	1

RESIDENTIAL ELECTRICAL NOTES

1. Single phase service shall be installed in accordance with the following: (A) 120V/240V single phase service with 3-wire, 4-wire, or 5-wire service as required by the local authority having jurisdiction.
2. All wiring shall be in accordance with the National Electrical Code (NEC) and the California Electrical Code (CEC).
3. All wiring shall be installed in accordance with the California Building Code (CBC) and the California Fire Code (CFC).
4. All wiring shall be installed in accordance with the California Fire Alarm Code (CFAC) and the California Security Code (CSC).
5. All wiring shall be installed in accordance with the California Fire and Life Safety Code (CFLSC).

ELECTRICAL FLOOR PLAN

PANEL "X"

GROUNDING ELECTRODE SYSTEM DETAIL

RESIDENCE
MALIBU, CA 90265

E001

DATE: 11/20/23
SCALE: 1/8" = 1'-0"
SHEET TITLE: ELECTRICAL FLOOR PLAN
E200

PLOT DATE: 11/20/23 1:30:31 PM

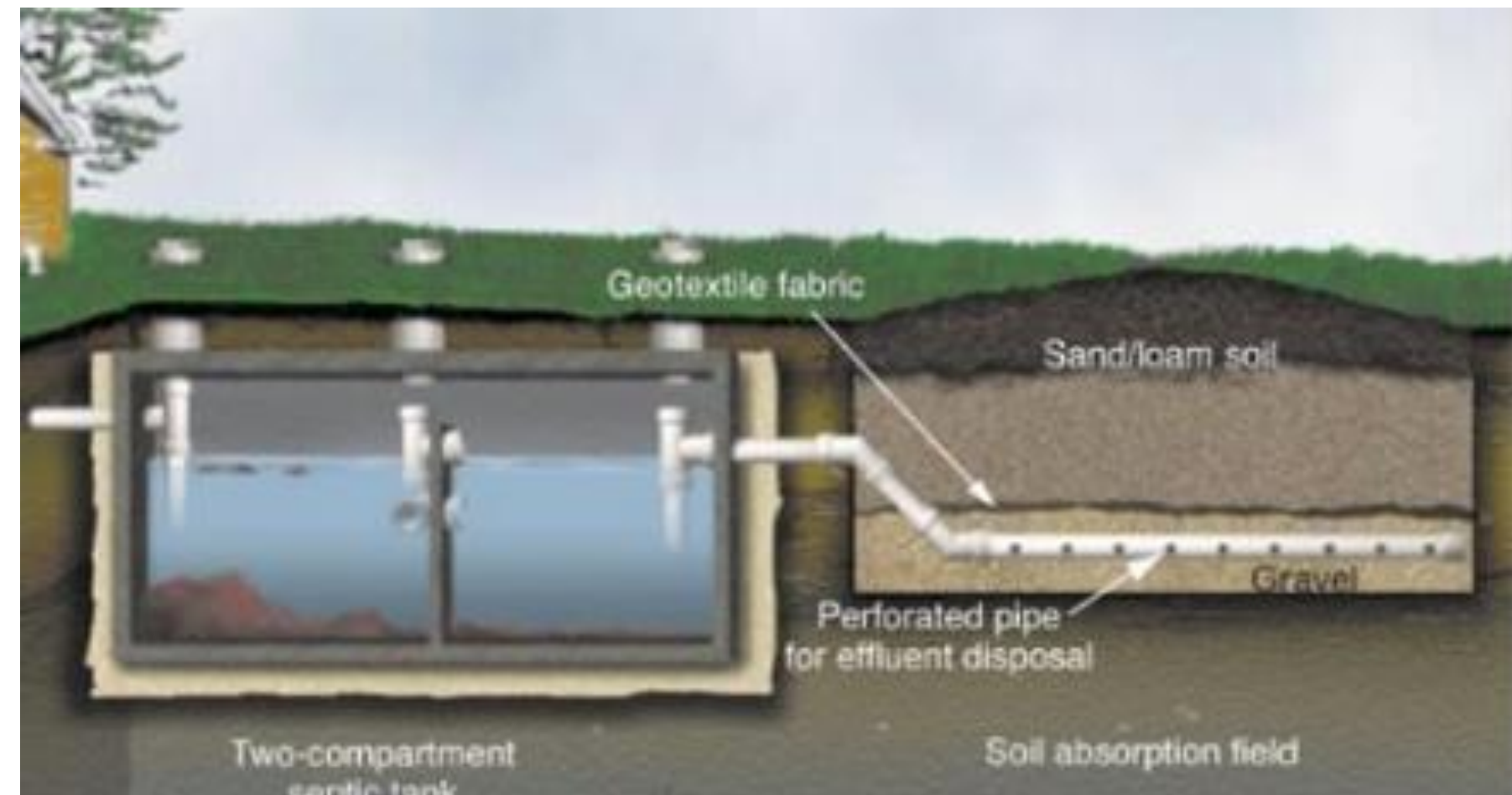


ENVIRONMENTAL HEALTH



ENVIRONMENTAL HEALTH

- Reviews functionality and capacity of wastewater system to serve your building(s)
- Onsite Wastewater Treatment Systems (OWTS)



PLUMBING STANDARDS CODE

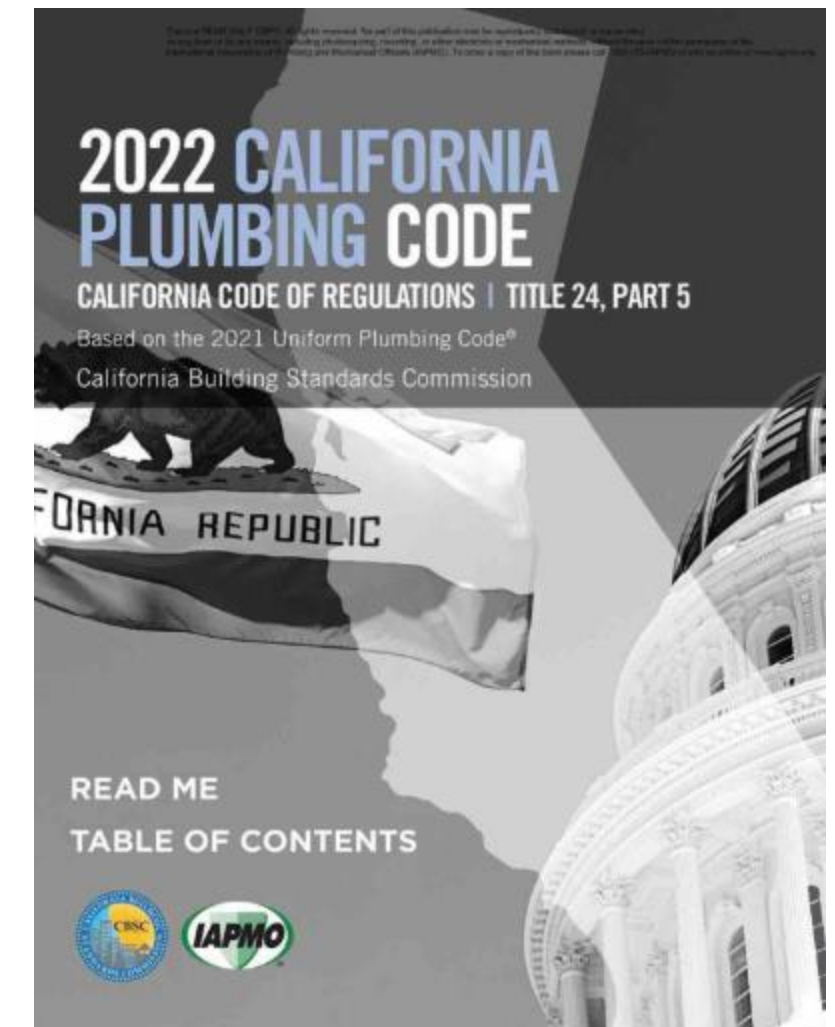
- Malibu Municipal Code (MMC) 15.40, 15.42, 15.44
- Local Agency Management Plan (LAMP)
- OWTS Manual
- LA County Title 28 Plumbing Code
- California Plumbing Code



Onsite Wastewater Treatment System Manual

Siting, Design, Installation, and
Operation Guidelines

July 23, 2018



ENVIRONMENTAL HEALTH

Reuse of Existing OWTS

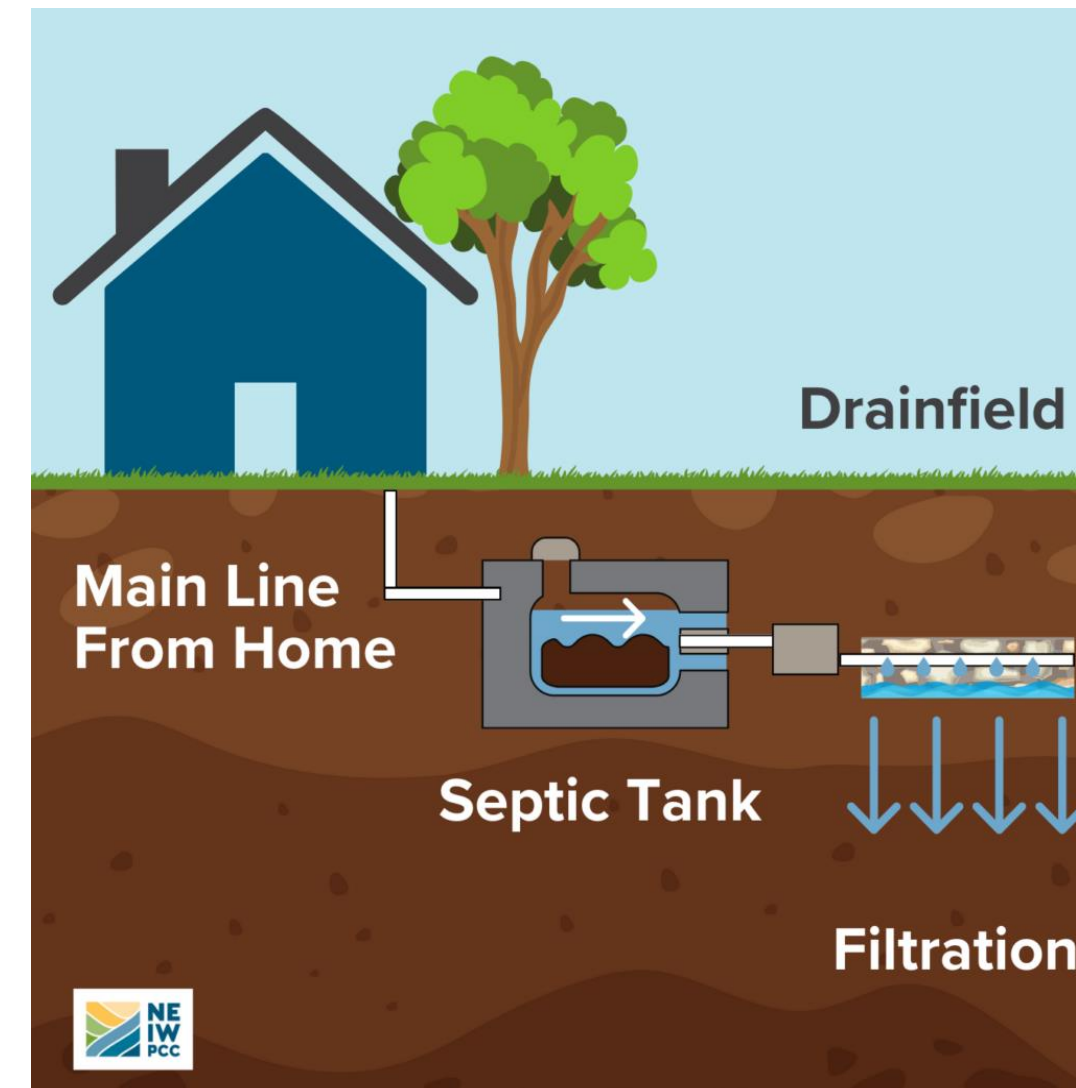
- OWTS Fire Damage Assessment Form
- Repairs completed before COO
- Site plan with location of OWTS and all structures
- Floor plans and fixture unit worksheet



ENVIRONMENTAL HEALTH

New OWTS

- Standard OWTS submittal
- Advanced OWTS with supplemental treatment is required for residential beachfront, commercial, and multifamily properties (MMC 15.40.090)



STRUCTURAL PLANS

FACTORYING SCHEDULE (ADAPTED FROM IBC TABLE 2304.11.1)

NO.	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF MEMBERS	SPECIAL AND LOCATION
ROOF			
1	BLOCKING BETWEEN CEILING JOISTS BATTENS OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
2	BLOCKING BETWEEN BATTENS OR TRUSS NOT AT THE WALL TOP PLATE TO BATTEN OR TRUSS	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
3	FLAT BLOCKING TO TRUSS AND WEB FILLER	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
4	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
5	CEILING JOIST NOT ATTACHED TO PARALLEL BATTEN LAYS OVER PARTITIONING AND TRUSSES USE SECTION 2302.3.1.1, TABLE 2302.3.1.1.1	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
6	CEILING JOIST NOT ATTACHED TO PARALLEL BATTEN LAYS OVER TRUSS	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
7	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
8	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
9	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
10	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
11	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
12	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
13	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
14	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
15	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
16	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
17	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
18	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
19	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
20	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
21	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
22	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
23	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
24	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
25	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
26	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
27	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
28	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
29	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
30	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
31	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
32	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
33	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
34	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
35	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
36	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
37	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
38	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
39	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
40	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
41	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
42	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
43	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
44	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
45	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
46	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
47	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
48	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
49	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
50	CEILING JOIST TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS
WALL			
1	STUD TO STUD (NOT AT BRACED WALL PANELS)	(1) 2x10 COMMON (2) 2" x 10" TRUSS	2x4 O.C. FACT WALL
2	STUD TO STUD AND ADJOINING STUD AT INTERIOR WALL CORNERS AT BRACED WALL PANELS	(1) 2x10 COMMON (2) 2" x 10" TRUSS	1x6 O.C. FACT WALL
3	BUILT UP HEADER UP TO 2" HEADERS	(1) 2x10 COMMON (2) 2" x 10" TRUSS	1x6 O.C. EACH EDGE
4	CONTINUOUS HEADER TO STUD	(1) 2x10 COMMON (2) 2" x 10" TRUSS	TOWNS
5	TOP PLATE TO TOP PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	1x6 O.C. FACT WALL
6	TOP PLATE TO TOP PLATE AT END JOINTS	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH SIDE OF END JOINT, FACT WALL
7	BOTTOM PLATE TO JOIST. END JOINT BAND JOINT OR BRACKING (NOT AT BRACED WALL PANELS)	(1) 2x10 COMMON (2) 2" x 10" TRUSS	1x6 O.C. FACT WALL
8	BOTTOM PLATE TO JOIST. END JOINT BAND JOINT OR BRACKING (NOT AT BRACED WALL PANELS)	(1) 2x10 COMMON (2) 2" x 10" TRUSS	1x6 O.C. FACT WALL
9	STUD TO TOP OR BOTTOM PLATE	(1) 2x10 COMMON (2) 2" x 10" TRUSS	TOWNS
10	TOP OR BOTTOM PLATE STUD	(1) 2x10 COMMON (2) 2" x 10" TRUSS	END WALL
11	TOP PLATE LAP AT CORNERS AND INTERSECTIONS	(1) 2x10 COMMON (2) 2" x 10" TRUSS	FACT WALL
FLOOR			
1	JOIST TO ALL TOP PLATE OR OTHER FRAMING	(1) 2x10 COMMON (2) 2" x 10" TRUSS	TOWNS
2	2x6 END JOINT BAND JOINT OR BRACKING TO TOP PLATE, LAP OR OTHER FRAMING BELOW	(1) 2x10 COMMON (2) 2" x 10" TRUSS	2x6 O.C. TOWNS
3	BUILT UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	(1) 2x10 COMMON (2) 2" x 10" TRUSS	2x4 O.C. FACT WALL AT TOP AND BOTTOM CONCRETE OR CONCRETE ON OPPOSITE SIDE
4	LEADER STEP SUPPORTING JOISTS OR BATTENS	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END AT BATTEN, END WALL
5	JOIST TO BAND JOINT OR END JOINT	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END AT BATTEN, END WALL
6	BRACKING OR BRACKING TO JOIST, BATTEN OR TRUSS	(1) 2x10 COMMON (2) 2" x 10" TRUSS	EACH END, TOWNS

NOTES:
1. THE NUMBER ABOVE AT MINIMUM WHERE NO FACTORING IS SPECIFIED, THE PLANE OR DETAIL MAY HAVE MORE STRINGENT REQUIREMENTS FOR SIMILAR BUILDING ELEMENTS.

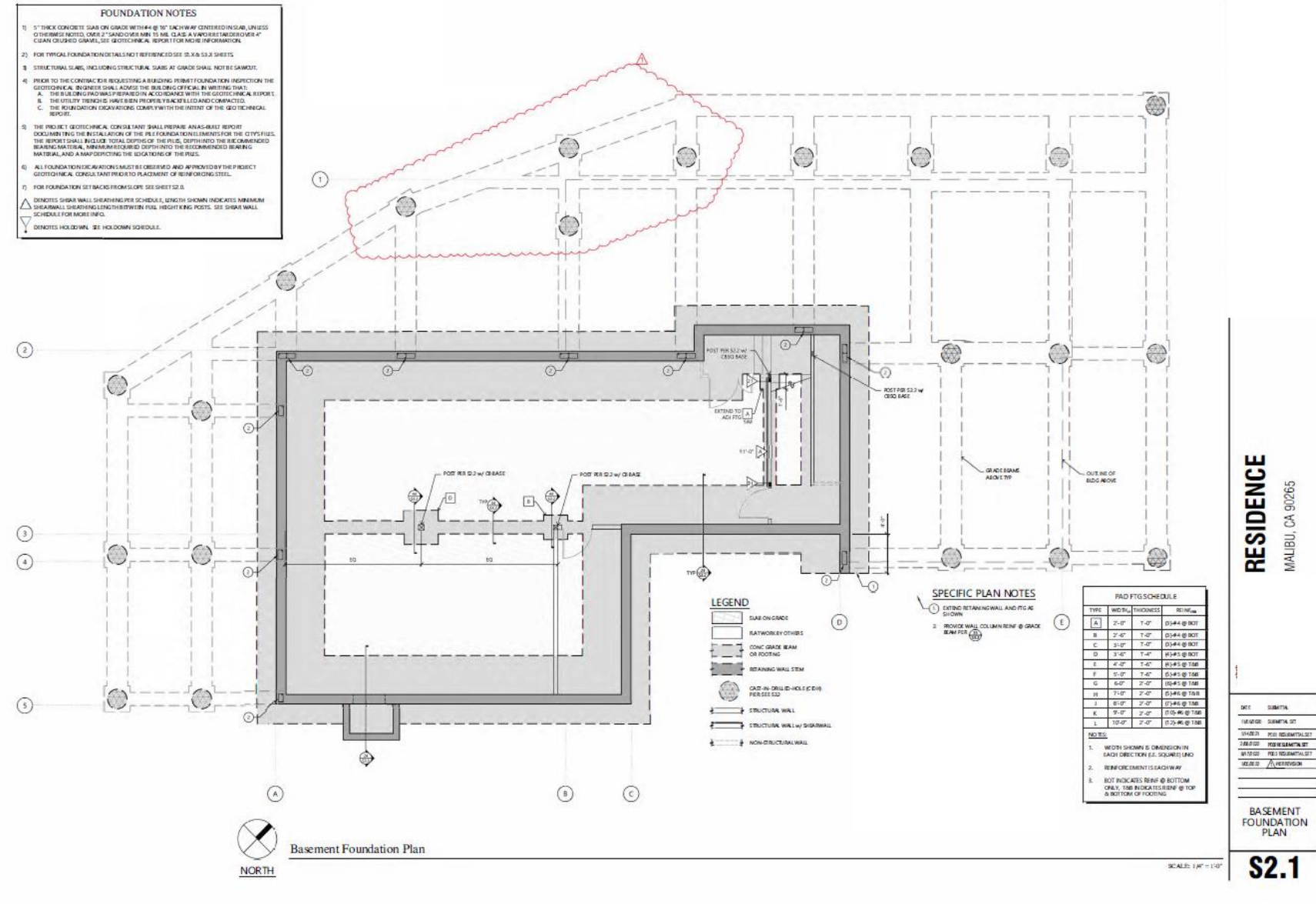
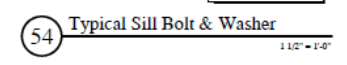
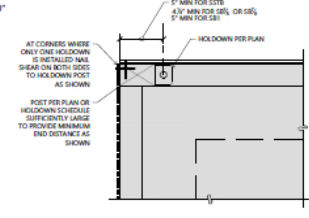
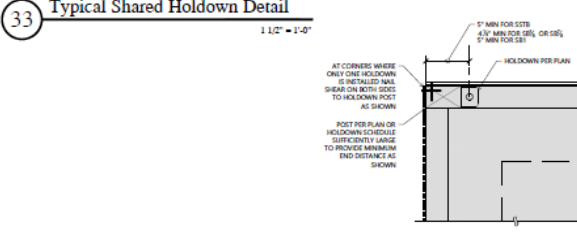
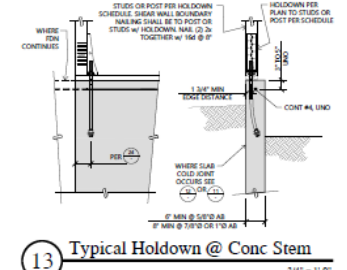
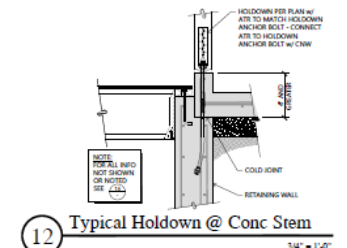
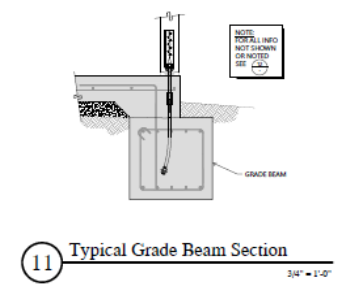
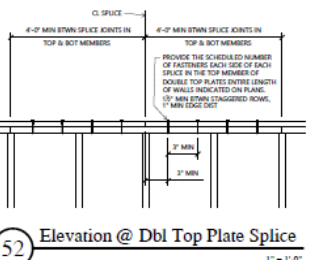
COLLECTOR SPICE SCHEDULE

TYPE	USE TOP PLATE SPICE (SECTION 2302.3.1)	USING OR END SPICES (SECTION 2302.3.1)
1	4 - JOISTS EACH SIDE (2) C216	
2	8 - JOISTS EACH SIDE (2) C216	
3	12 - JOISTS EACH SIDE (2) C216	
4	16 - JOISTS EACH SIDE (2) C216	
5	20 - JOISTS EACH SIDE (2) C216	

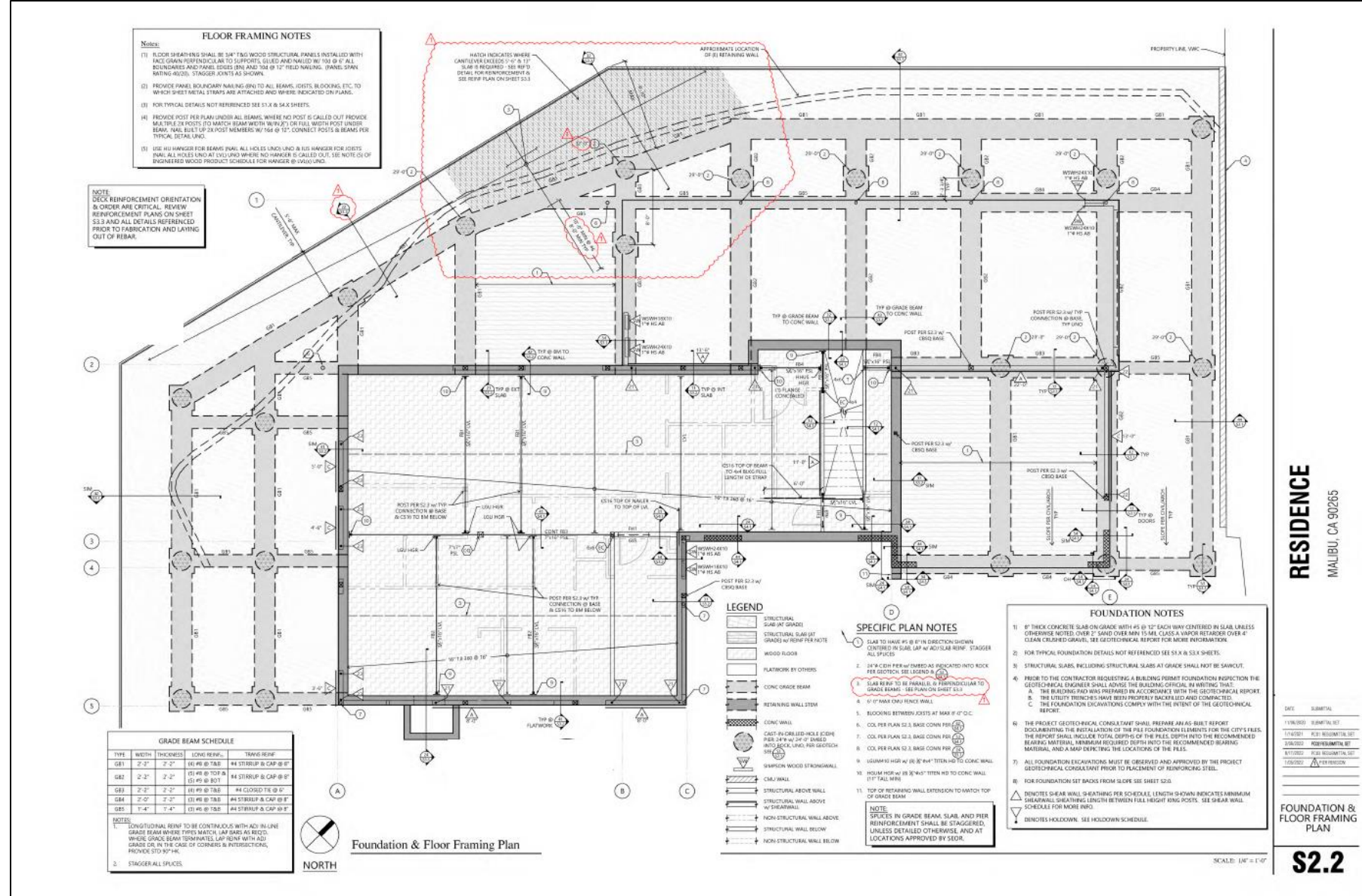
NOTES:
1. UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL DOUBLES TOP PLATE, LEDGER & END JOINT SPICES SHALL BE TYPE 1.
2. USE SPICE TYPE NOTED ON PLAN FOR LEDGER & END JOINTS.
3. USE SPICE TYPE NOTED ON PLAN FOR LEDGER & END JOINTS.

SHEAR WALL SCHEDULE

TYPE	CONCRETE	REINFORCEMENT	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM
1	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
2	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
3	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
4	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
5	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
6	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
7	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
8	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
9	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
10	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
11	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
12	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
13	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
14	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
15	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
16	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
17	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
18	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
19	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
20	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
21	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
22	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
23	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
24	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
25	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
26	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
27	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
28	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
29	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
30	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
31	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
32	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
33	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
34	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
35	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
36	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
37	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
38	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
39	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
40	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
41	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
42	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
43	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
44	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
45	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
46	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
47	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
48	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
49	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"
50	3000 PSI	#3 @ 16" O.C.	12"	18"	12"	18"	12"	18"	12"	18"	12"	18"

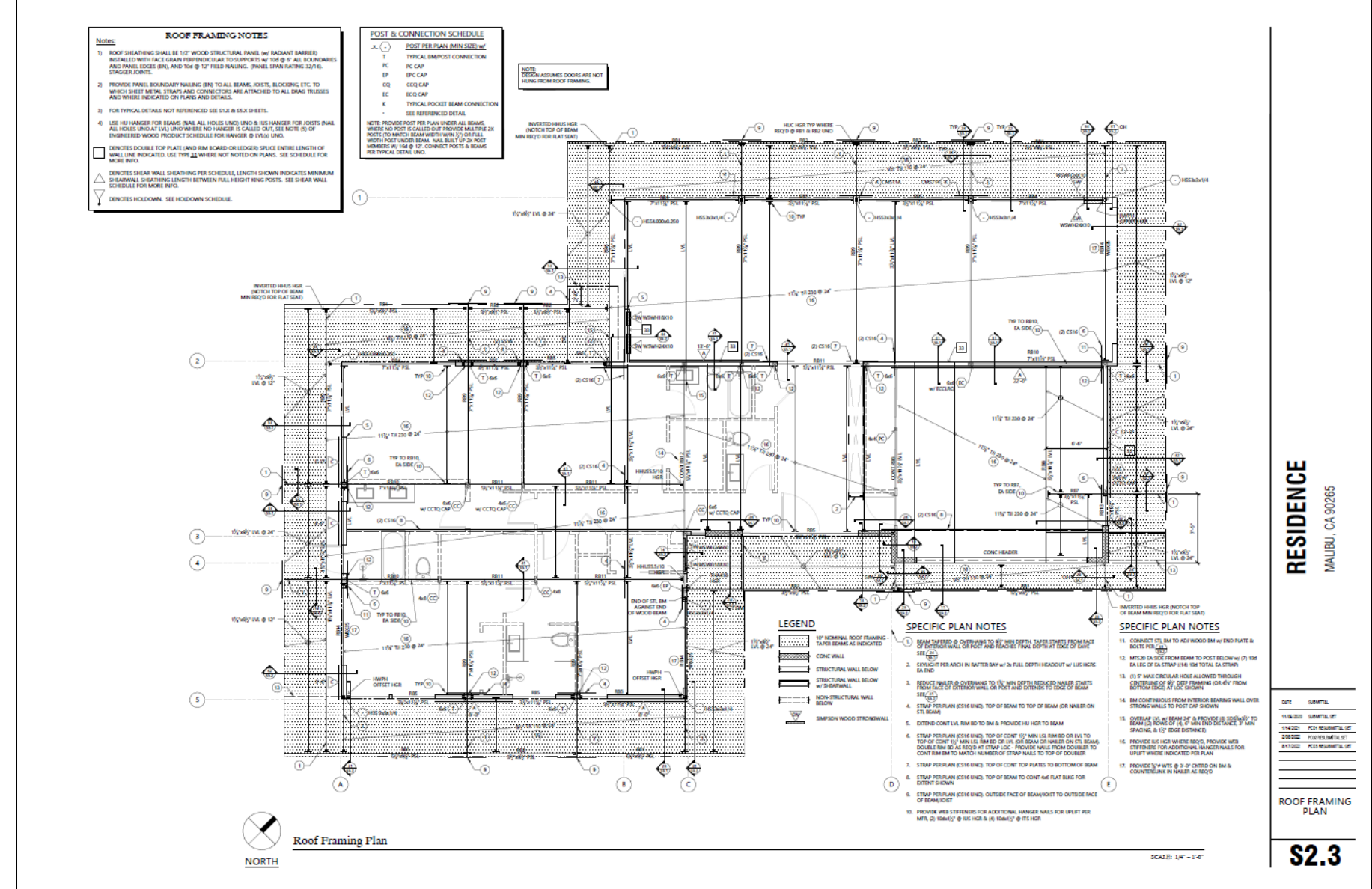


STRUCTURAL PLANS



RESIDENCE
MALIBU, CA 90265

FOUNDATION & FLOOR FRAMING PLAN
S2.2



RESIDENCE
MALIBU, CA 90265

ROOF FRAMING PLAN
S2.3



STRUCTURAL PLANS

51 Typical GB Intersection Elev. 3/4" = 1'-0"

41 Typical GB Intersections Plan 1/2" = 1'-0"

31 Typical GB Corner Plan 1/2" = 1'-0"

21 Section @ CIDH Concrete Pile 1/2" = 1'-0"

11 Typical Grade Beam Section 3/4" = 1'-0"

42 Deck Section 3/4" = 1'-0"

12 Typ. Grade Beam @ Curb 3/4" = 1'-0"

53 Typical CIDH Pile Section 3/4" = 1'-0"

43 Alt. Typical GB Intersection Elev. 3/4" = 1'-0"

33 Alternate Typical GB Intersection Elev. 3/4" = 1'-0"

13 Typ. Interior Grade Beam Section 3/4" = 1'-0"

44 Typ. CMU Wall @ Slab 3/4" = 1'-0"

34 Typ. Grade Beam @ SSW 3/4" = 1'-0"

RESIDENCE MALIBU, CA 90265

FOUNDATION DETAILS

S3.1

51 Int Wall @ Beam 1/2" = 1'-0"

41 Roof Joist @ Beam 1/2" = 1'-0"

31 Roof Joist @ Int Wall 1/2" = 1'-0"

21 Roof Joist Perpend. to Wall 1/2" = 1'-0"

11 Roof Joist Parallel to Wall 1/2" = 1'-0"

32 Typical Overhang Section 1" = 1'-0"

22 Typical Overhang Section 1" = 1'-0"

53 Typical Overhang Taper Beam Section 1" = 1'-0"

33 Overhang Taper Beam Section 1" = 1'-0"

23 Typical Overhang Section 1" = 1'-0"

54 Overhang Taper Beam Section 1" = 1'-0"

44 Overhang Taper Beam Section 1" = 1'-0"

34 Overhang Taper Beam Section 1" = 1'-0"

24 Typical Overhang Taper Beam Section 1" = 1'-0"

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ROOF FRAMING DETAILS

S5.1

STRUCTURAL PLANS

STANDARD QUALITY ASSURANCE PLAN

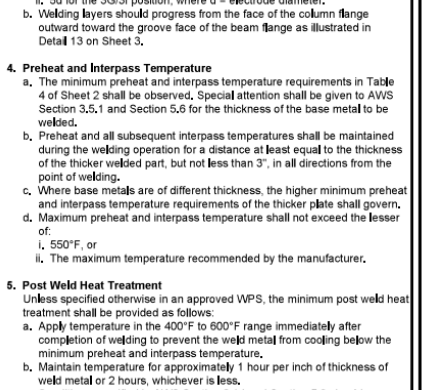
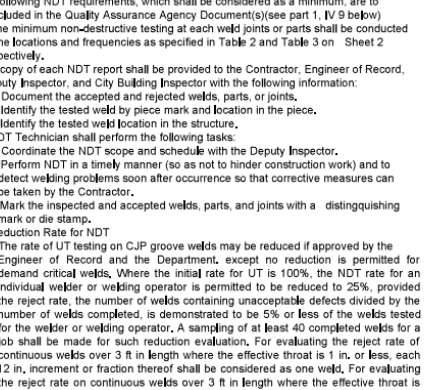
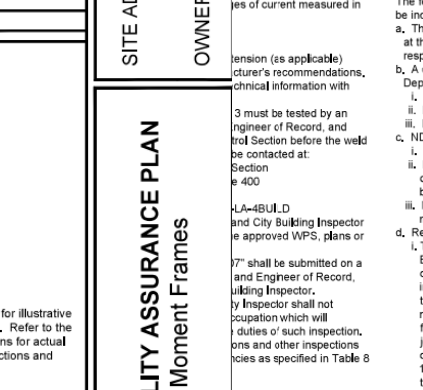
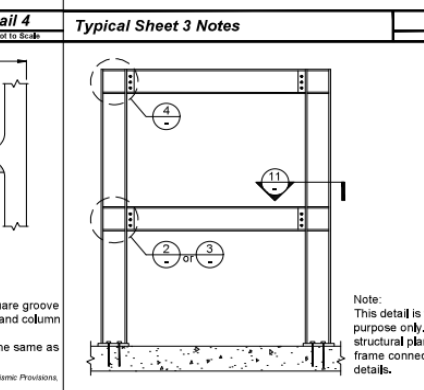
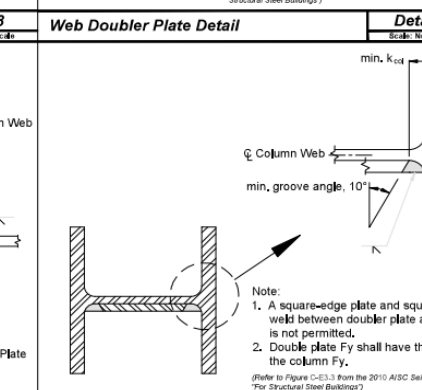
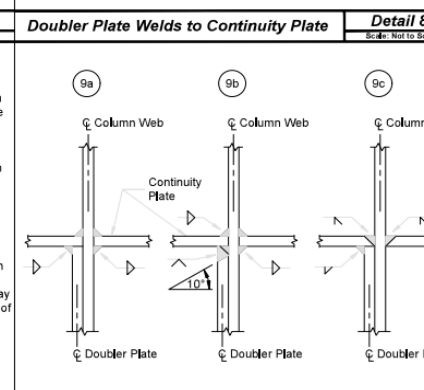
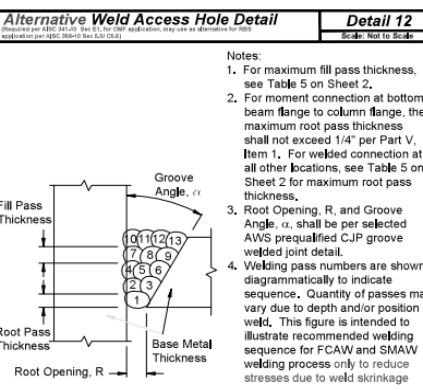
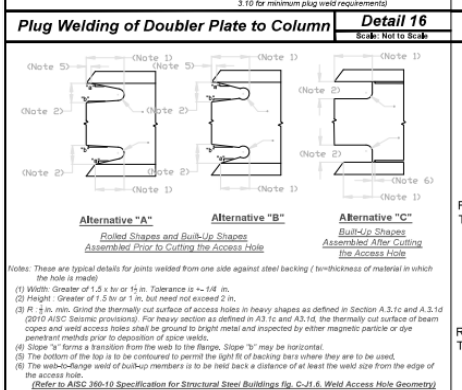
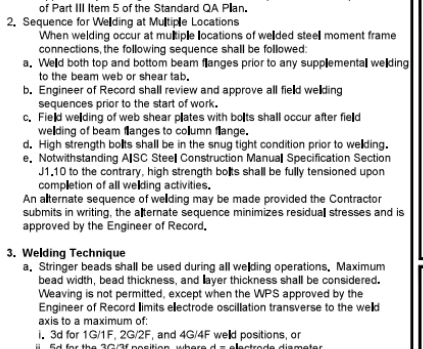
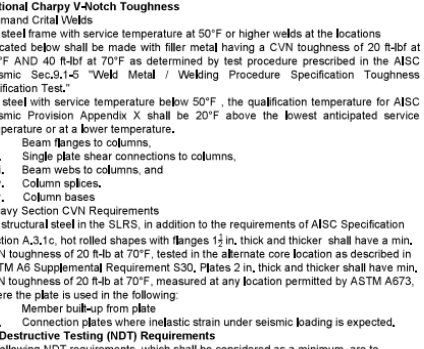
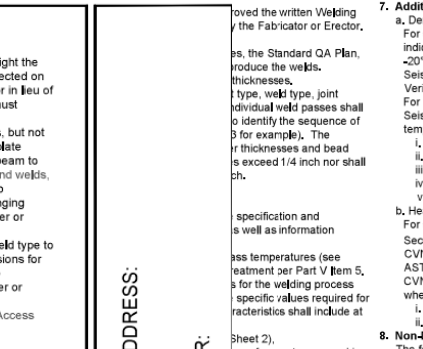
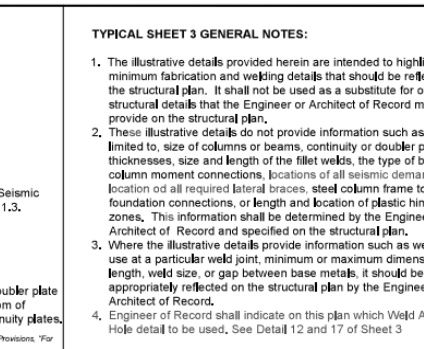
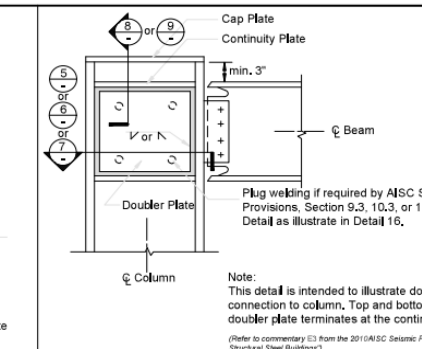
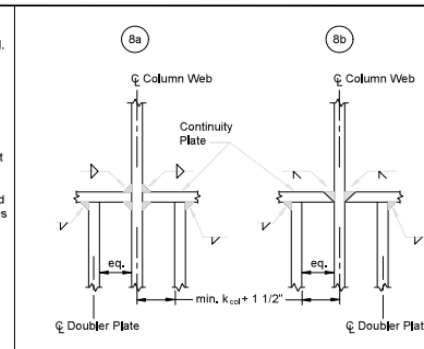
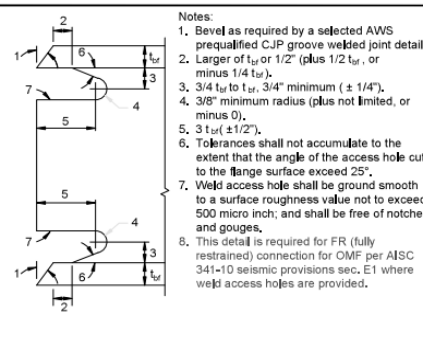
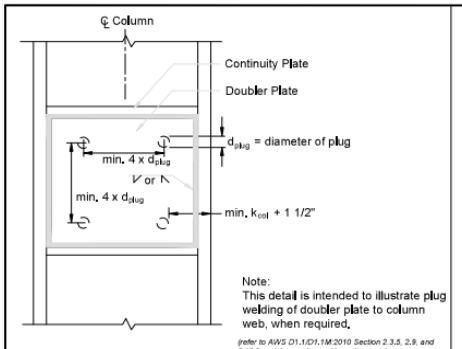
I. PURPOSE
The Standard Quality Assurance Plan (hereinafter referred to as "Standard QA Plan") for steel moment frames provides specifications, procedures, and illustrative details to comply with the requirements of the 2017 Los Angeles Building Code. The quality assurance requirements described in this

- Welding Processes
Structural welding shall be limited to the Shielded Metal Arc Welding or Flux Cored Arc Welding processes.
- Base Metal Repairs or Restorations
Any repair or restoration of base metal shall comply with all of the following:
a. Engineer of Record shall review and approve the WPS for repair procedures prior to welding.
b. Verify that repair procedures meet the requirements outlined in AWS D1.1.

- Verify type and size of bolts and washers, check mill certificates, and verify lapping surfaces are free of burrs, scale, rust, grease or anything that may inhibit full contact.
- Verify connections involving high strength bolts and welds are fabricated per Part III Item 2(b) and 2(c) and erected in a sequence per Part V Item 2, unless specified otherwise by the Engineer of Record.
- Verify high strength bolts are not welded or damaged by preheating.
- Verify washers are always installed with all bolts, except A-500 bolts.

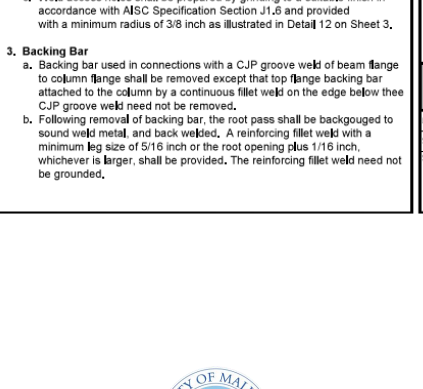
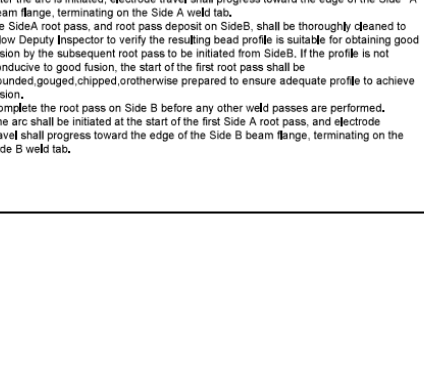
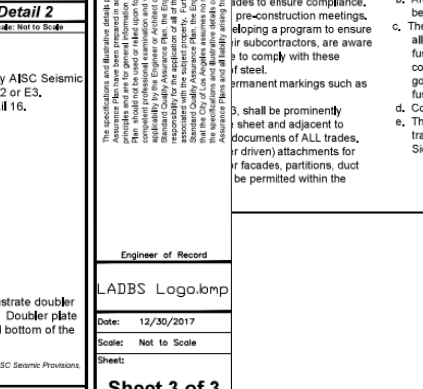
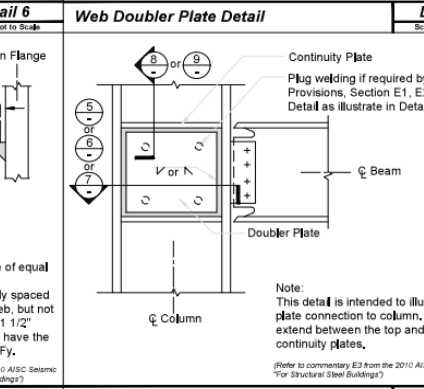
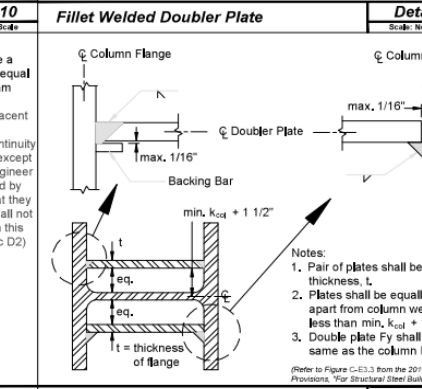
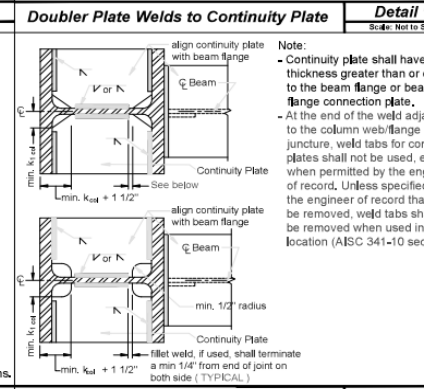
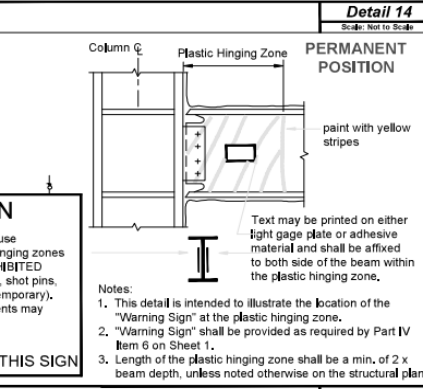
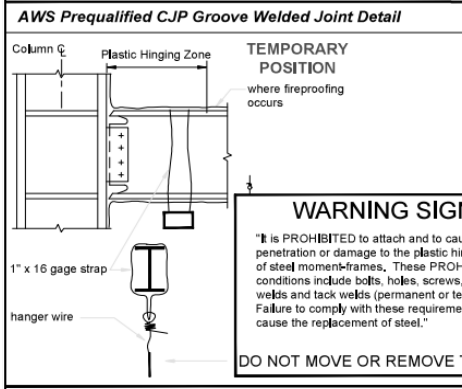
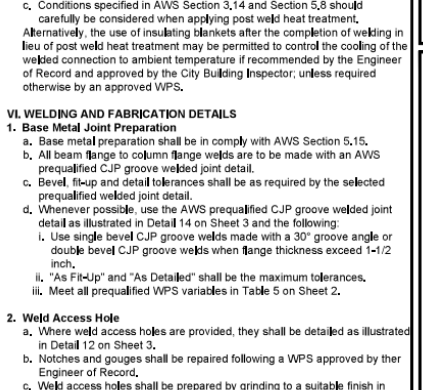
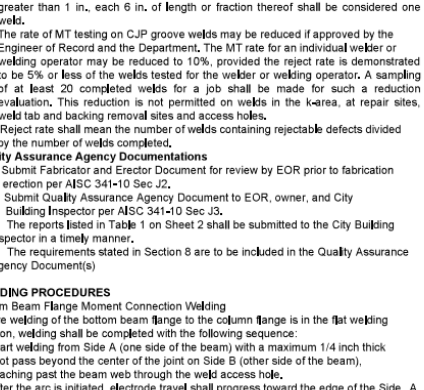
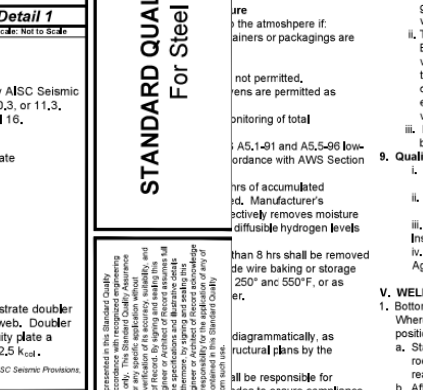
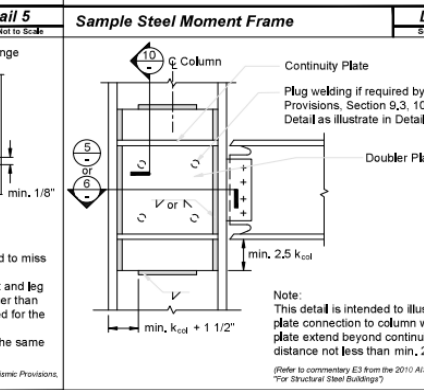
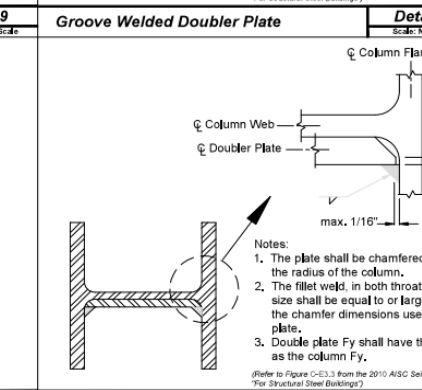
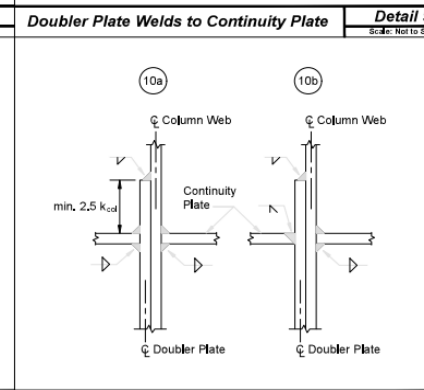
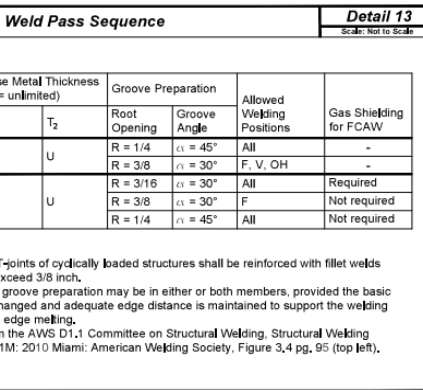
- Any penetrations or damage from temporary welded attachments within the plastic hinging zones shall be repaired as required by the Engineer of Record and comply with Part III Item 4.
- Initially, the plastic hinging zone "Warning Sign" as illustrated in Detail 15 on Sheet 3, may be temporary. However, the temporary "Warning Sign" shall be replaced by a permanent "Warning Sign" before project completion. This sign and identification of the plastic hinging zone shall be maintained during construction; and may require repair after operations such as fireproofing.
- Signs shall be affixed to the beam and located within the plastic hinging zone. The City Building Inspector may accept alternate methods of attaching the "Warning Sign" to the plastic hinging zones.

- The above sequence shall be repeated for subsequent weld layers, and each weld layer shall be completed on both sides of the joint before a new layer is deposited. For each layer, the weld starts and stops shall be on opposite side of beam web as compare to previous layer. The order of operations (Side A then Side B, or vice versa) is not restricted and may vary for each weld layer. Weld passes shall be placed in horizontal layers. Each pass shall be thoroughly cleaned of slag and wire brushed. Each pass shall be visually inspected by the Deputy Inspector, as described above in Step (c). An alternate welding sequence may be provided Contractor submit in writing an alternate sequence that is approved by the Engineer of Record and complies with the requirements of Part III Item 5 of the Standard QA Plan.



TOLERANCES	
As Detailed	As Fit-Up
R = +1/16, -0	+1/4, -1/16
U = +10°, -0°	+10°, -5°

Welding Process	Joint Designation	Base Metal Thickness (U = unlimited)		Allowed Welding Positions	Gas Shielding for FCAW
		T ₁	T ₂		
SMAW	TC-UJ4a	U	U	R = 1/4 (α = 45°) All R = 3/8 (α = 30°) All	F, V, OH
		U	U	R = 3/16 (α = 30°) All	Required
		U	U	R = 3/8 (α = 30°) All	Not required
FCAW	TC-UJ4a-GF	U	U	R = 1/4 (α = 45°) All	Not required
		U	U	R = 3/8 (α = 30°) All	Not required
		U	U	R = 1/4 (α = 45°) All	Not required



STANDARD QUALITY ASSURANCE PLAN For Steel Moment Frames

SHEET ADDRESS: OWNER:

SHEET ADDRESS: OWNER:

SHEET ADDRESS: OWNER:

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STANDARD QUALITY ASSURANCE PLAN For Steel Moment Frames

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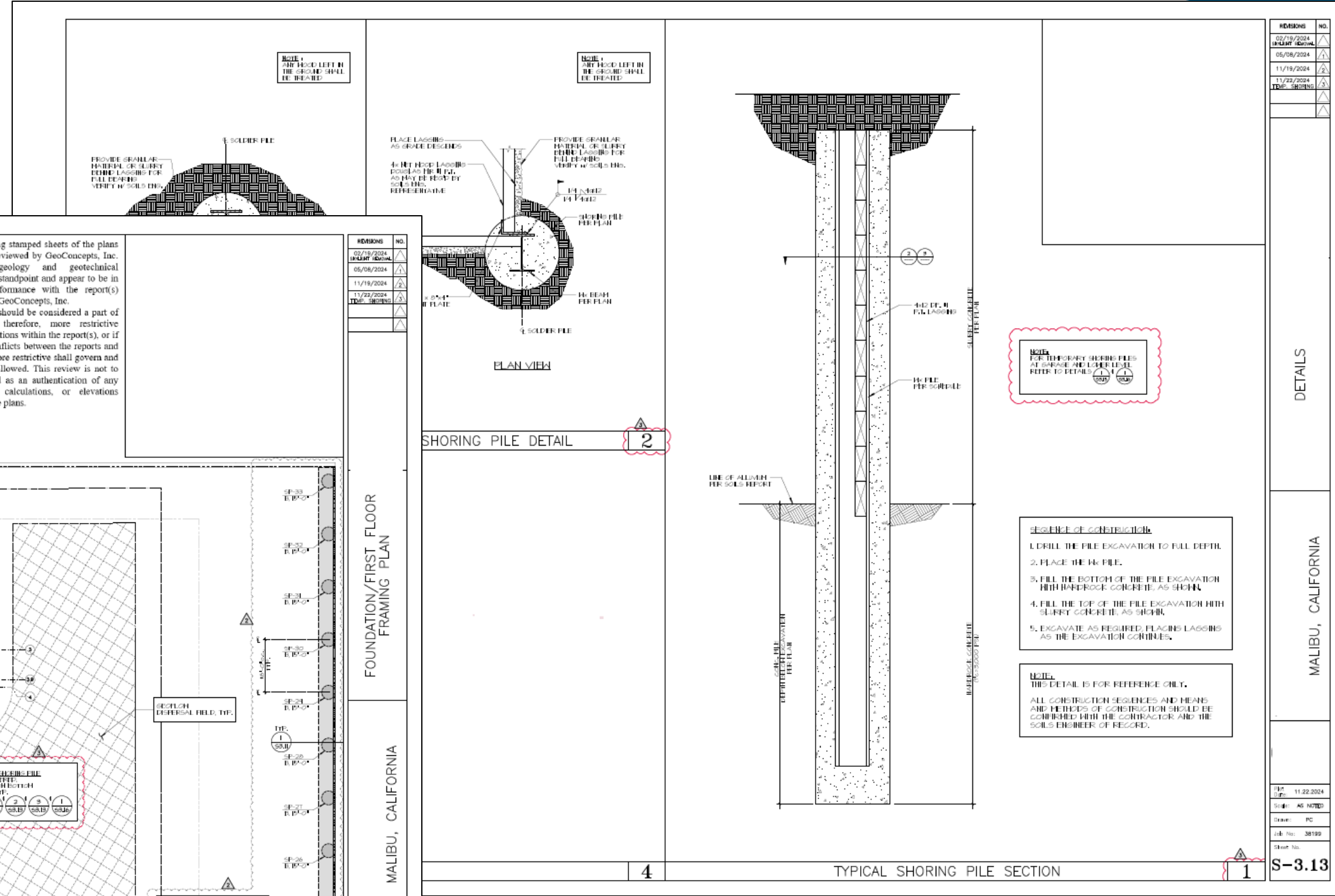
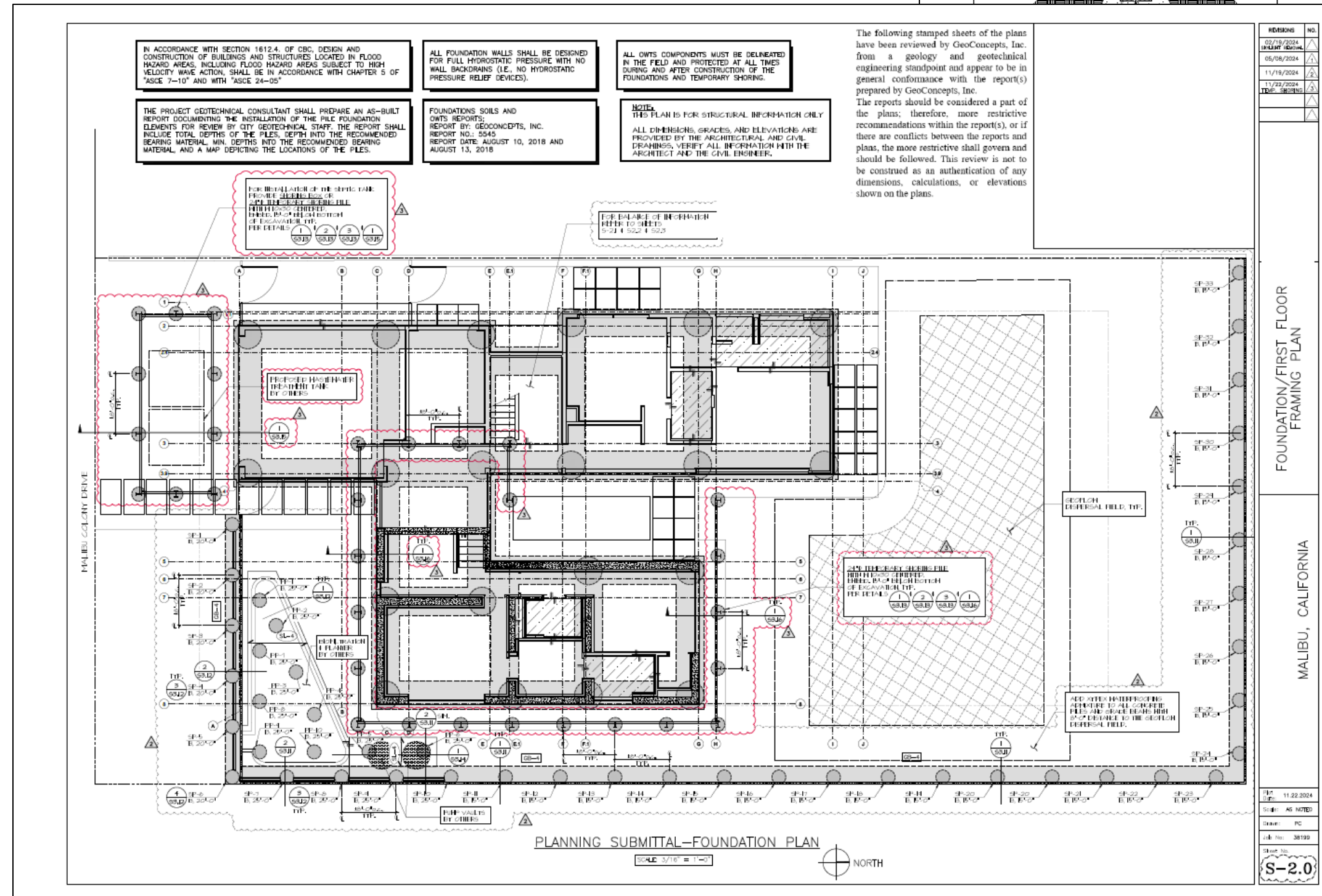
STANDARD QUALITY ASSURANCE PLAN For Steel Moment Frames

The specifications and drawings herein are prepared by the City of Malibu, California. It is the responsibility of the Contractor to verify the accuracy of all information provided herein and to comply with all applicable codes and regulations. The Contractor shall be responsible for obtaining all necessary permits and approvals. The City of Malibu is not responsible for any errors or omissions in these drawings or specifications. The Contractor shall be responsible for the safety of all workers and the public during the construction process.

Engineer of Record
LADBS Logo.bmp
Date: 12/30/2017
Scale: Not to Scale
Sheet:
Sheet 1 of 3



SHORING PLANS



CIVIL PLANS

City of Malibu
2023 Street Book - 2nd Edition - Volume 001 (01-01-2023) to Volume 010 (01-01-2023)

PERMITS AND REGULATIONS

- 1. All work shall be done in accordance with the current City of Malibu Ordinance No. 100000 (2017) and all other applicable laws, rules, regulations, codes, and ordinances of the City of Malibu.
- 2. The applicant shall comply with all applicable Division of Building Department (DBD) rules, regulations, codes, and ordinances, including but not limited to, the City of Malibu Ordinance No. 100000 (2017) and all other applicable laws, rules, regulations, codes, and ordinances of the City of Malibu.
- 3. The applicant shall comply with all applicable Division of Public Works Department (PWD) rules, regulations, codes, and ordinances, including but not limited to, the City of Malibu Ordinance No. 100000 (2017) and all other applicable laws, rules, regulations, codes, and ordinances of the City of Malibu.
- 4. The applicant shall comply with all applicable Division of Planning Department (PD) rules, regulations, codes, and ordinances, including but not limited to, the City of Malibu Ordinance No. 100000 (2017) and all other applicable laws, rules, regulations, codes, and ordinances of the City of Malibu.
- 5. The applicant shall comply with all applicable Division of Fire Department (FD) rules, regulations, codes, and ordinances, including but not limited to, the City of Malibu Ordinance No. 100000 (2017) and all other applicable laws, rules, regulations, codes, and ordinances of the City of Malibu.
- 6. The applicant shall comply with all applicable Division of Police Department (PD) rules, regulations, codes, and ordinances, including but not limited to, the City of Malibu Ordinance No. 100000 (2017) and all other applicable laws, rules, regulations, codes, and ordinances of the City of Malibu.
- 7. The applicant shall comply with all applicable Division of Health Department (HD) rules, regulations, codes, and ordinances, including but not limited to, the City of Malibu Ordinance No. 100000 (2017) and all other applicable laws, rules, regulations, codes, and ordinances of the City of Malibu.
- 8. The applicant shall comply with all applicable Division of Social Services Department (SSD) rules, regulations, codes, and ordinances, including but not limited to, the City of Malibu Ordinance No. 100000 (2017) and all other applicable laws, rules, regulations, codes, and ordinances of the City of Malibu.
- 9. The applicant shall comply with all applicable Division of Parks and Recreation Department (PRD) rules, regulations, codes, and ordinances, including but not limited to, the City of Malibu Ordinance No. 100000 (2017) and all other applicable laws, rules, regulations, codes, and ordinances of the City of Malibu.
- 10. The applicant shall comply with all applicable Division of Community Development Department (CDD) rules, regulations, codes, and ordinances, including but not limited to, the City of Malibu Ordinance No. 100000 (2017) and all other applicable laws, rules, regulations, codes, and ordinances of the City of Malibu.

City of Malibu
2023 Street Book - 2nd Edition - Volume 001 (01-01-2023) to Volume 010 (01-01-2023)

ROYAL GRADING VERIFICATION CERTIFICATE
EXHIBIT (COMPLETION OF WORK)

PROJECT NO: _____
PROJECT ADDRESS: _____

All projects involving grading shall be verified by the City of Malibu. The applicant shall submit a completed Royal Grading Verification Certificate to the City of Malibu upon completion of the project. The certificate shall be signed by the City Engineer or a designated representative. The certificate shall be submitted to the City of Malibu upon completion of the project.

NO.	DESCRIPTION	DATE
1	Grading	
2	Foundation	
3	Drainage	
4	Retaining Walls	
5	Other	

DATE: _____

GENERAL NOTES

1. The applicant shall provide a copy of the grading plan to the City of Malibu upon completion of the project.
2. The applicant shall provide a copy of the grading plan to the City of Malibu upon completion of the project.
3. The applicant shall provide a copy of the grading plan to the City of Malibu upon completion of the project.
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9. The applicant shall provide a copy of the grading plan to the City of Malibu upon completion of the project.
10. The applicant shall provide a copy of the grading plan to the City of Malibu upon completion of the project.

APPROVED: _____
DATE: _____

OVERALL SITE PLAN

CITY OF MALIBU
COVER SHEET
SHEET 1 OF 4

Basement Detail

OWNER IS RECORDING EASEMENT FOR FIRE DEPARTMENT ACCESS FOR BOTH LOTS

SEE LANDSLIDE REMEDIATION DETAIL TO THE BOTTOM.

VICINITY MAP

Basement Detail

LANDSLIDE REMEDIATION DETAIL

REMOVAL AND RECOMPACTION NOTE:

1. The applicant shall provide a copy of the grading plan to the City of Malibu upon completion of the project.
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CITY OF MALIBU
GRADING PLAN
SHEET 2 OF 4

PUBLIC WORKS



PUBLIC WORKS

- Reviews drainage, grading, erosion control plans, FEMA flood zone regulations



City of Malibu

23825 Stuart Ranch Road ♦ Malibu, California ♦ 90265-4861
(310) 456-2489 ♦ fax (310) 456-3356 ♦ www.malibucity.org

LOCAL STORM WATER POLLUTION PREVENTION PLAN (SWPPP) REQUIREMENTS (CONSTRUCTION PHASE BMPs)

All projects which require a Coastal Development Permit must include a Local SWPPP to mitigate the effect of development on storm water during construction. This is not the same as the State SWPPP, which is required for projects that disturb more than 1 acre of land. (See the General Construction Activities Stormwater Permit Requirements for more information about the State SWPPP.)

The Local SWPPP shall include, but not be limited to, the following items. Additional information is available on the City of Malibu's website at www.malibucity.org.

1. Narrative description (on 8 1/2" x 11" paper) of construction BMPs (source control and structural) – address the following items:
 - ⇒ Stabilization of disturbed areas
 - ⇒ Sediment traps – size to retain sediment at a rate of 50 cubic yards per acre drained.
 - ⇒ Description of how parking areas and access will be kept free of mud, and describe how mud will be monitored to prevent being tracked off-site
 - ⇒ Description of how wind-blown dust will be prevented
 - ⇒ Description of BMPs for sanitary facilities, materials storage and disposal areas (recycle materials where possible), paint and chemical storage areas, and washout areas
2. Erosion Control Plan (on full-size plan sheets) – include the following items:
 - ⇒ Property limits, existing topography contours, details of terrain and area drainage
 - ⇒ Locations of any buildings or structures on or within 15 feet of the project site
 - ⇒ Locations and cross-sections of all cut and fill slopes (temporary and permanent), retaining structures, buttresses, etc. – identify benches, surface and subsurface drainage, etc.)
 - ⇒ Area (in square feet) and volume (in cubic yards) of all grading (identify cut, fill, import, and export volumes separately), and the locations where sediment will be stockpiled or disposed
 - ⇒ Contours of proposed topography, drainage channels, and related construction
 - ⇒ Show potential storm water flow paths during construction
 - ⇒ Show structural and non-structural BMPs to be used during construction:
 - * Stabilize disturbed areas and slopes with vegetation, mulch, geotextiles, etc.
 - * Trap sediment with fiber rolls, silt fencing, sediment basins, etc.
 - * Prevent mud in vehicle parking areas and monitor the site entrance for mud being tracked off-site
 - * Show how construction-related materials will be retained on the site during normal construction, and in case materials are spilled. Provide protection from wind erosion as well as rain.
 - ⇒ Show any washout areas and vehicle washing areas with appropriate BMPs (must be at least 50' from any storm drain, open ditch or surface water). All washout and wash water must be contained on-site.
 - ⇒ Show location of sanitary facilities with appropriate BMPs.
 - ⇒ Show location of materials storage and disposal areas with appropriate BMPs.
 - ⇒ Show location of paint and chemical storage areas with appropriate BMPs.



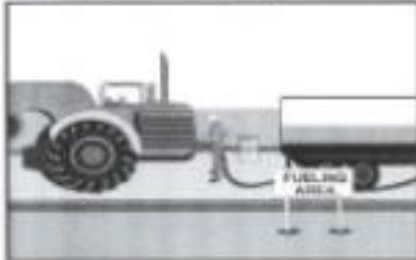
PUBLIC WORKS PLAN CHECK

Reviews plans for:

- Drainage
- Grading
- Local Stormwater Pollution Prevention Plans (LSWPPP)
- Stormwater and water quality compliance
- FEMA flood zone regulations
- Improvements within the public right-of-way



Vehicle and Equipment Fueling NS-9



Objectives

- EC Erosion Control
- SC Sediment Control
- TC Tracking Control
- WC Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control

Legend:

- Primary Objective
- Secondary Objective

Targeted Constituents

- Sediment
- Soil
- Oil
- Grease
- Hydrocarbons
- Trace Metals
- Ammonia
- Nitrate
- Phosphate
- Organics

Description and Purpose

Vehicle equipment fueling operations and practices are designed to prevent fuel spills and leaks, and reduce or eliminate contaminants of concern. This can be accomplished by using refueling facilities, fueling is designated areas only, avoiding or covering areas that, implementing spill response, and training employees and subcontractors in proper fueling procedures.

Vehicle & Equipment Maintenance NS-10



Objectives

- EC Erosion Control
- SC Sediment Control
- TC Tracking Control
- WC Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control

Legend:

- Primary Objective
- Secondary Objective


Targeted Constituents

- Sediment
- Soil
- Oil
- Grease
- Hydrocarbons
- Trace Metals
- Ammonia
- Nitrate
- Phosphate
- Organics

Description and Purpose

Prevent or reduce the contamination of stormwater runoff from vehicle and equipment maintenance by routing a "hot wash" to a hot water wash system. The hot water wash system is not available for use until it has been properly maintained and only after the wash water has been properly treated. This includes, but is not limited to, checking for leaks and spills, and ensuring that the wash water is properly treated before being discharged to a stormwater runoff collection system.

Silt Fence SE-1



Categories

- EC Erosion Control
- SC Sediment Control
- TC Tracking Control
- WC Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control

Legend:

- Primary Objective
- Secondary Objective


Targeted Constituents

- Sediment
- Soil
- Oil
- Grease
- Hydrocarbons
- Trace Metals
- Ammonia
- Nitrate
- Phosphate
- Organics

Description and Purpose

A silt fence is made of a woven geotextile that has been stretched, attached to supporting poles, and sometimes backed by a plastic or wire mesh for support. The silt fence detains water, preventing sedimentation of eroded soil behind the fence. Silt fences do not retain soil particles the size of silt.

Check Dams SE-4



Categories

- EC Erosion Control
- SC Sediment Control
- TC Tracking Control
- WC Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control

Legend:

- Primary Objective
- Secondary Objective

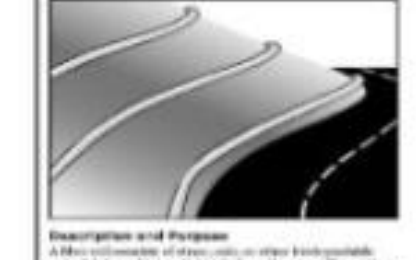
Targeted Constituents

- Sediment
- Soil
- Oil
- Grease
- Hydrocarbons
- Trace Metals
- Ammonia
- Nitrate
- Phosphate
- Organics

Description and Purpose

A check dam is a small barrier constructed of rock, gravel, logs, concrete, steel pipe, or other appropriate materials, placed across a channel to reduce erosion. Check dams reduce the effective slope of the channel, thereby reducing soil erosion. Check dams are used to reduce erosion and sedimentation in channels, ditches, and stormwater runoff collection systems.

Fiber Rolls or Silt Fence SE-5



Categories

- EC Erosion Control
- SC Sediment Control
- TC Tracking Control
- WC Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control

Legend:

- Primary Objective
- Secondary Objective


Targeted Constituents

- Sediment
- Soil
- Oil
- Grease
- Hydrocarbons
- Trace Metals
- Ammonia
- Nitrate
- Phosphate
- Organics

Description and Purpose

A fiber roll is made of fiber rolls or other bank-stabilizing materials placed in a line to reduce erosion. Fiber rolls are made of a woven geotextile that has been stretched, attached to supporting poles, and sometimes backed by a plastic or wire mesh for support. The fiber roll detains water, preventing sedimentation of eroded soil behind the roll. Fiber rolls do not retain soil particles the size of silt.

Street Sweeping and Vacuuming SE-7



Categories

- EC Erosion Control
- SC Sediment Control
- TC Tracking Control
- WC Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control


Legend:

- Primary Objective
- Secondary Objective

Description and Purpose

Street sweeping and vacuuming operations are designed to prevent or reduce the discharge of pollutants to stormwater runoff from street sweeping and vacuuming activities. This includes, but is not limited to, using street sweepers and vacuum trucks, and training employees and subcontractors in proper street sweeping and vacuuming procedures.

Sandbag Barrier SE-8



Categories

- EC Erosion Control
- SC Sediment Control
- TC Tracking Control
- WC Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control

Legend:

- Primary Objective
- Secondary Objective

Targeted Constituents

- Sediment
- Soil
- Oil
- Grease
- Hydrocarbons
- Trace Metals
- Ammonia
- Nitrate
- Phosphate
- Organics

Description and Purpose

A sandbag barrier is a series of sand-filled bags placed in a line to reduce erosion. Sandbag barriers are used to reduce erosion and sedimentation in channels, ditches, and stormwater runoff collection systems.

Storm Drain Inlet Protection SE-10



Categories

- EC Erosion Control
- SC Sediment Control
- TC Tracking Control
- WC Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control

Legend:

- Primary Objective
- Secondary Objective

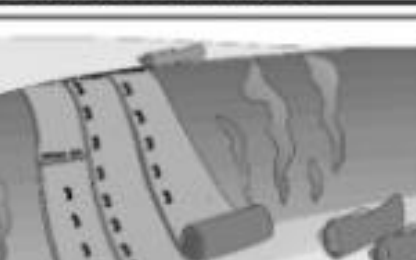
Targeted Constituents

- Sediment
- Soil
- Oil
- Grease
- Hydrocarbons
- Trace Metals
- Ammonia
- Nitrate
- Phosphate
- Organics

Description and Purpose

Storm drain inlet protection is a device that is placed at the inlet of a storm drain to prevent sediment and debris from entering the drain. Storm drain inlet protection is used to reduce erosion and sedimentation in channels, ditches, and stormwater runoff collection systems.

Geotextiles and Mats EC-7



Categories

- EC Erosion Control
- SC Sediment Control
- TC Tracking Control
- WC Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control


Legend:

- Primary Objective
- Secondary Objective

Description and Purpose

Geotextiles and mats are used to stabilize soil and prevent erosion. Geotextiles are made of a woven geotextile that has been stretched, attached to supporting poles, and sometimes backed by a plastic or wire mesh for support. Mats are made of a woven geotextile that has been stretched, attached to supporting poles, and sometimes backed by a plastic or wire mesh for support.

Entrance/Outlet Tire Wash TC-3



Categories

- EC Erosion Control
- SC Sediment Control
- TC Tracking Control
- WC Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control

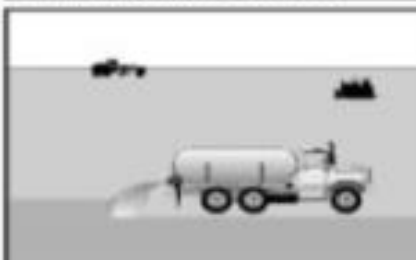
Legend:

- Primary Objective
- Secondary Objective

Description and Purpose

Entrance/outlet tire wash stations are designed to prevent or reduce the discharge of pollutants to stormwater runoff from vehicle and equipment tires. This includes, but is not limited to, using tire wash stations, and training employees and subcontractors in proper tire wash procedures.

Wind Erosion Control WE-1



Categories

- EC Erosion Control
- SC Sediment Control
- TC Tracking Control
- WC Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control

Legend:

- Primary Objective
- Secondary Objective

Targeted Constituents

- Sediment
- Soil
- Oil
- Grease
- Hydrocarbons
- Trace Metals
- Ammonia
- Nitrate
- Phosphate
- Organics

Description and Purpose

Wind erosion control is a device that is used to prevent or reduce the discharge of pollutants to stormwater runoff from wind erosion. Wind erosion control is used to reduce erosion and sedimentation in channels, ditches, and stormwater runoff collection systems.

Solid Waste Management WM-5



Objectives

- EC Erosion Control
- SC Sediment Control
- TC Tracking Control
- WC Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control

Legend:

- Primary Objective
- Secondary Objective

Targeted Constituents

- Sediment
- Soil
- Oil
- Grease
- Hydrocarbons
- Trace Metals
- Ammonia
- Nitrate
- Phosphate
- Organics

Description and Purpose

Solid waste management operations are designed to prevent or reduce the discharge of pollutants to stormwater runoff from solid waste management activities. This includes, but is not limited to, using solid waste management facilities, and training employees and subcontractors in proper solid waste management procedures.

Concrete Waste Management WM-8



Objectives

- EC Erosion Control
- SC Sediment Control
- TC Tracking Control
- WC Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control

Legend:

- Primary Objective
- Secondary Objective

Targeted Constituents

- Sediment
- Soil
- Oil
- Grease
- Hydrocarbons
- Trace Metals
- Ammonia
- Nitrate
- Phosphate
- Organics

Description and Purpose

Concrete waste management operations are designed to prevent or reduce the discharge of pollutants to stormwater runoff from concrete waste management activities. This includes, but is not limited to, using concrete waste management facilities, and training employees and subcontractors in proper concrete waste management procedures.

Sanitary/Septic Waste Management WM-9



Objectives

- EC Erosion Control
- SC Sediment Control
- TC Tracking Control
- WC Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control

Legend:

- Primary Objective
- Secondary Objective


Targeted Constituents

- Sediment
- Soil
- Oil
- Grease
- Hydrocarbons
- Trace Metals
- Ammonia
- Nitrate
- Phosphate
- Organics

Description and Purpose

Sanitary/septic waste management operations are designed to prevent or reduce the discharge of pollutants to stormwater runoff from sanitary and septic waste management activities. This includes, but is not limited to, using sanitary and septic waste management facilities, and training employees and subcontractors in proper sanitary and septic waste management procedures.

Hydroseeding EC-4



Categories

- EC Erosion Control
- SC Sediment Control
- TC Tracking Control
- WC Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control

Legend:

- Primary Objective
- Secondary Objective

Targeted Constituents

- Sediment
- Soil
- Oil
- Grease
- Hydrocarbons
- Trace Metals
- Ammonia
- Nitrate
- Phosphate
- Organics

Description and Purpose

Hydroseeding is a process of applying a mixture of a hydrogel, seeds, soil, fertilizer, and mulch to a site. Hydroseeding is used to reduce erosion and sedimentation in channels, ditches, and stormwater runoff collection systems.

Preservation of Existing Vegetation EC-3



Objectives

- EC Erosion Control
- SC Sediment Control
- TC Tracking Control
- WC Wind Erosion Control
- NS Non-Stormwater Management Control
- WM Waste Management and Materials Pollution Control

Legend:

- Primary Objective
- Secondary Objective

Targeted Constituents

- Sediment
- Soil
- Oil
- Grease
- Hydrocarbons
- Trace Metals
- Ammonia
- Nitrate
- Phosphate
- Organics

Description and Purpose

Preservation of existing vegetation operations are designed to prevent or reduce the discharge of pollutants to stormwater runoff from preservation of existing vegetation activities. This includes, but is not limited to, using preservation of existing vegetation facilities, and training employees and subcontractors in proper preservation of existing vegetation procedures.

PLAN CHECK #:

PERMIT #:

ADDRESS:

2016 CA RESIDENTIAL CODE

EROSION AND SEDIMENT CONTROL PLAN (ESCP)

THESE CODE REQUIREMENTS GOVERN ANY ERRORS SHOWN ON OTHER PLANS.


WORK DESCRIPTION:

CITY OF: MALIBU

23825 STUART RANCH ROAD

MALIBU, CA 90265

310-456-3356





Updated for 2022



LIGHTING MANDATORY REQUIREMENTS

SINGLE-FAMILY § 150.0(k) 1-2

- **Luminaire Requirements**
 - Ceiling recessed downlight luminaires meet CA Electrical Code Section 410.116
- **Indoor Lighting Controls**
 - Adds auto-off controls for lighting in drawers and cabinets
 - Undershelf, display cabinets, switched outlets controlled separate from ceiling lighting
 - Adds exception for dimming controls

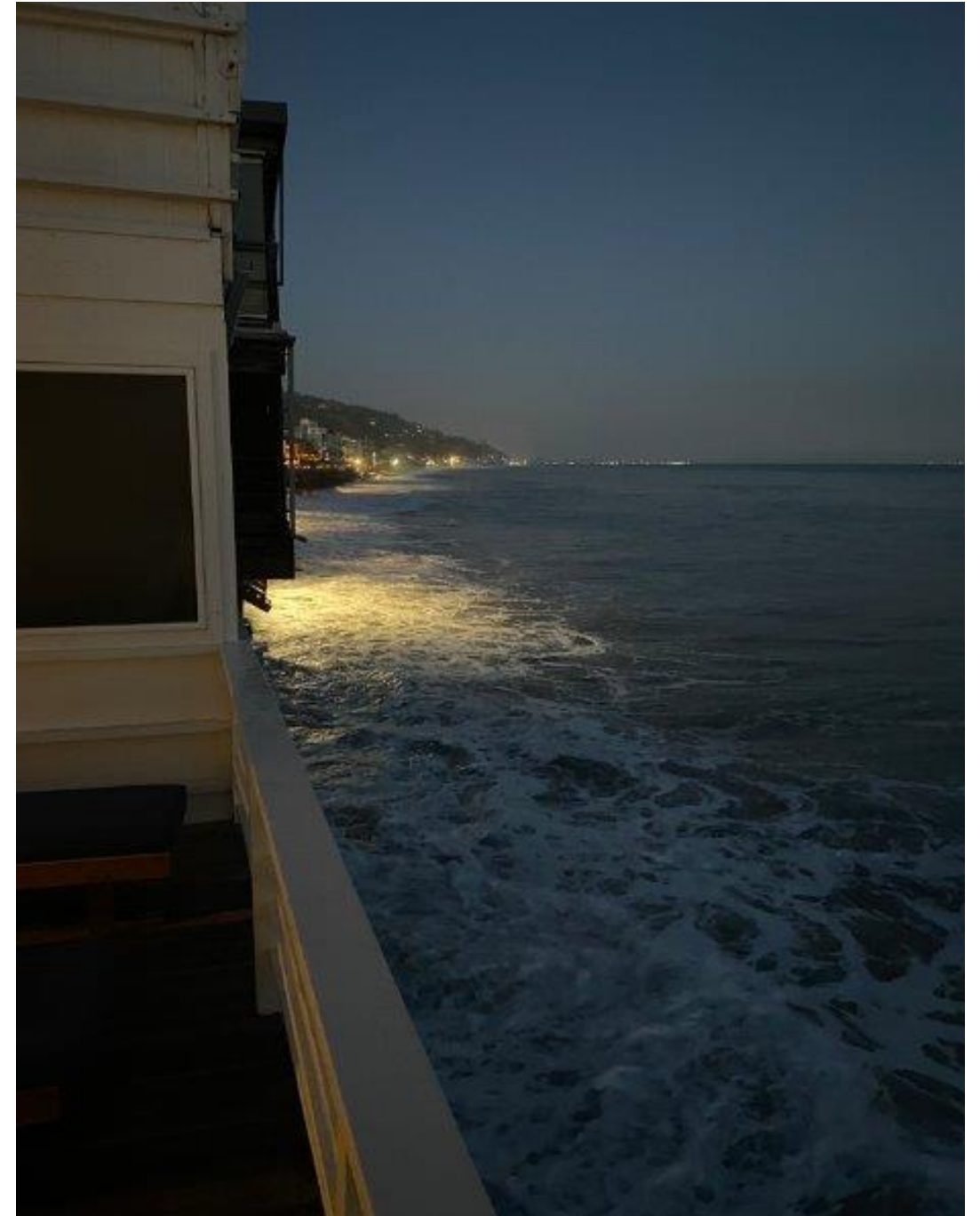
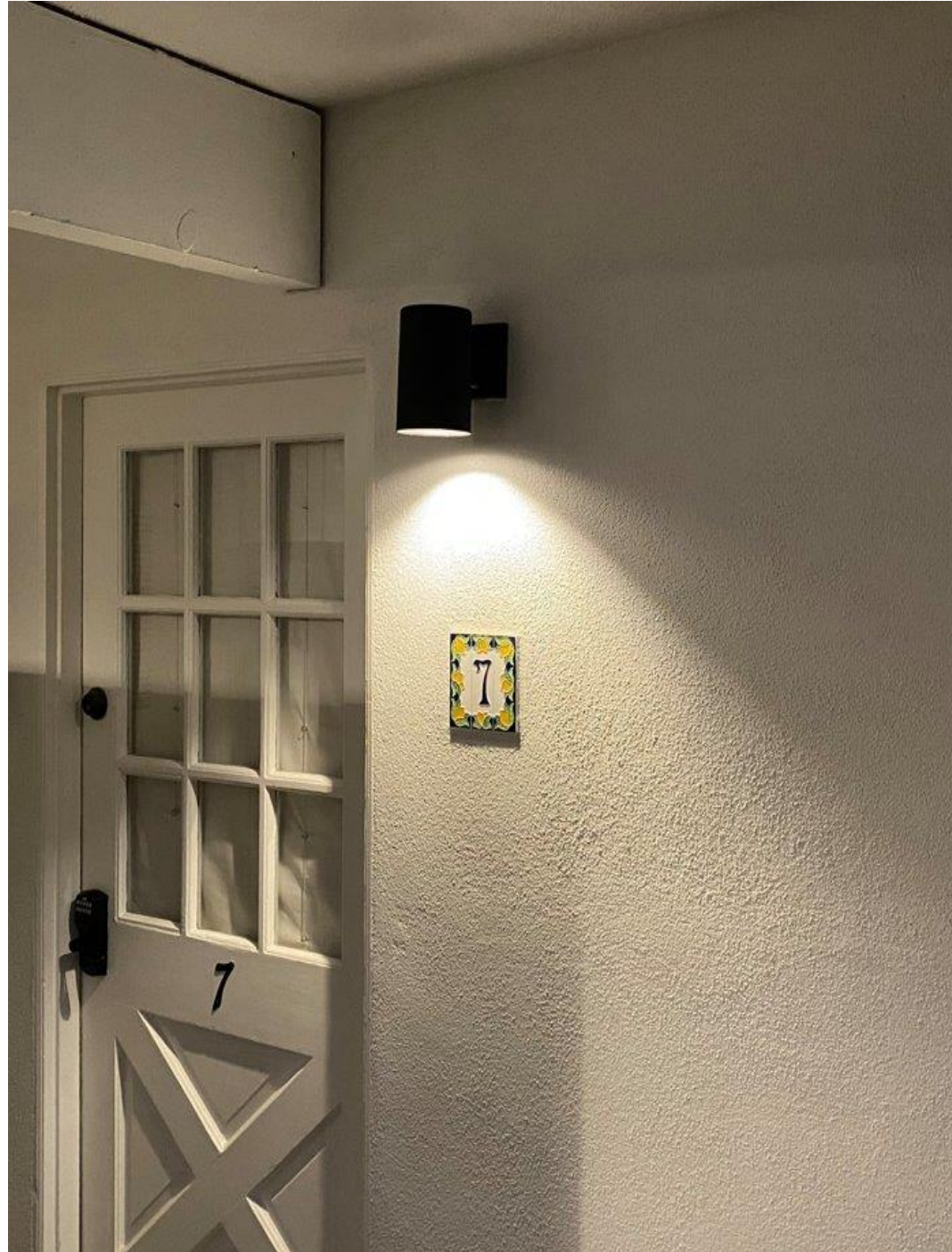


DARK SKY ORDINANCE REQUIREMENTS

- All lighting is to be **Fully Shielded** and directed downward
- **Lighting Temperature** is to be 3,000 Kelvins or less
- **Luminaire Brightness** must not exceed 850 lumens in residential, scenic and ESHA areas
- **Light Trespass** must not exceed the following maximum values:
 - 0.1 foot-candles from own property onto residential, ESHA, ESHA buffer, Pacific Ocean, beaches and public viewing properties
 - 0.25 foot-candles from own property onto any other non-residential property
 - Specific light trespass amendments for gas stations
- **Curfew:** All lights must be extinguished by 11pm (or at close of business). Exemptions include:
 - Lighting activated by motion sensors (must extinguish after 10 minutes)
 - Specific lighting at building entrances, parking areas, and driveways
 - ATM and exterior hotel/motel room accessway lighting



PACIFIC COAST HIGHWAY



R327 AGING-IN-PLACE DESIGN AND FALL PREVENTION

R327.1.1 Reinforcement for grab bars.

- At least one bathroom on the entry level shall be provided with reinforcement installed in accordance with this section.
- Where there is no bathroom on the entry level, at least one bathroom on the second or third floor of the dwelling shall comply with this section.



R327.1.3 AGING IN PLACE DESIGN

R327.1.3 Interior Doors

- Effective July 1, 2024, at least one bathroom and one bedroom on the entry level shall provide a doorway with a net clear opening of not less than 32 inches (812.8 mm), measured with the door positioned at an angle of 90 degrees from the closed position; or, in the case of a two- or three-story single family dwelling, on the second or third floor of the dwelling if a bathroom or bedroom is not located on the entry level.



GEOLOGY



GEOLOGY AND COASTAL REVIEW

PURPOSE: Safety and conformance with Codes & consistent, integrated review

WHO: Senior Malibu Reviewers Dedicated to Rebuilds

- **Lauren Doyel (GE), Mike Phipps (CEG), Christina Clark (CEG)**
- Review team pairs for beachfront and non-beachfront review
- Support staff providing GIS and parcel information
- Developers of original Malibu Geotechnical and Fire Rebuild Guidelines

HOW: Lessons learned, updated guidelines, pre-screening process
Innovations in information, GIS platform, and new resources

GOAL: Provide best information and guidance for informed design decisions and to minimize corrections.



GEOLOGY PROCESS

1. Review information regarding parcel – telecon, meeting at Fire Rebuild Center
 - Beachfront – Non-beachfront
 - Hazards, Slopes, As-built, Public infrastructure (drainage, etc.)
 - Parcel Geotechnical and Coastal Worksheet – summary & links
2. Identify scope of project and applicable code sections (potential constraints)
3. Planning pre-screen (known hazard areas) - e.g. Assessment Districts, Las Flores Mesa
4. Meeting with your project team to review Guidelines and information pre-design
5. Building Plan Check Review

GOAL: Invite you into our process, provide information and guidance to obtain approvable project by second review.



GEOLOGY GUIDELINES

- Classify by Parcel Type and Characteristics relevant to code.
 - Beachfront – Non-beachfront, Hazards: presence and type
- Encourage prudent use of existing information (desktop study) to inform investigation scope
- Encourage and allow joint baseline reports where feasible
- Three Report types – All require CEG and PE/GE
 - Limited Hazard Report (for temporary housing)
 - Limited Report (when there is rich existing info)
 - Comprehensive Report (when there is sparse existing information)
- Guidance Matrix based on Code requirements, parcel type, and hazards
- Ready by March 31, 2025 – parcel-specific guidance available now



GEOLOGY GUIDELINES

DECISION MATRIX FOR LIMITED GEOTECHNICAL REPORT ELIGIBILITY

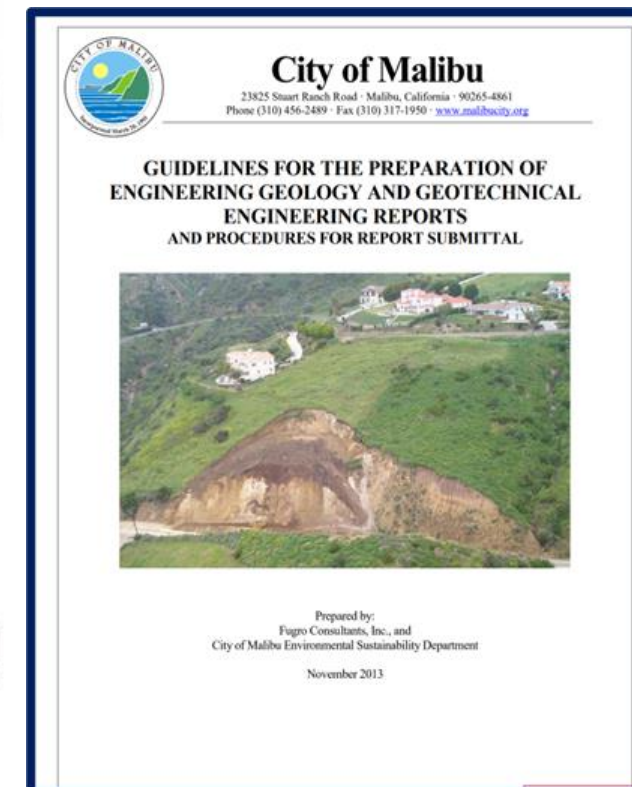
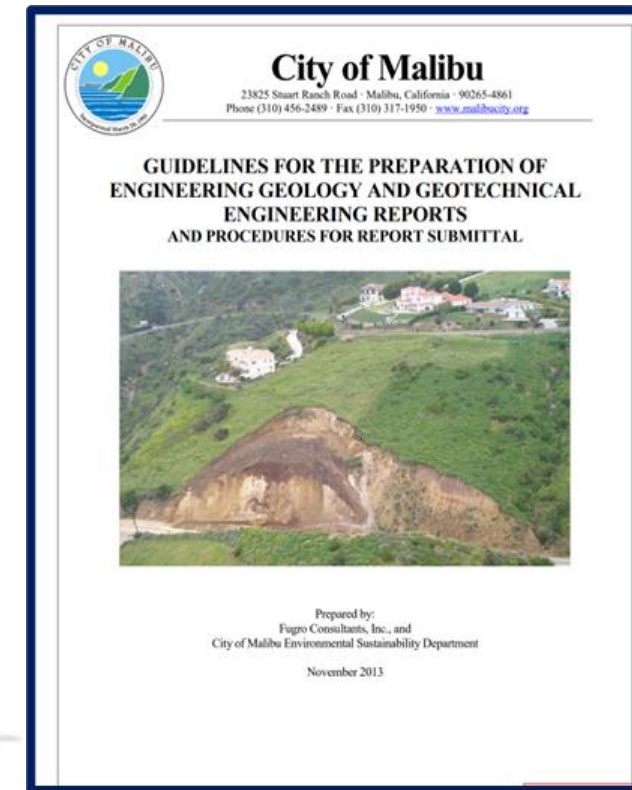
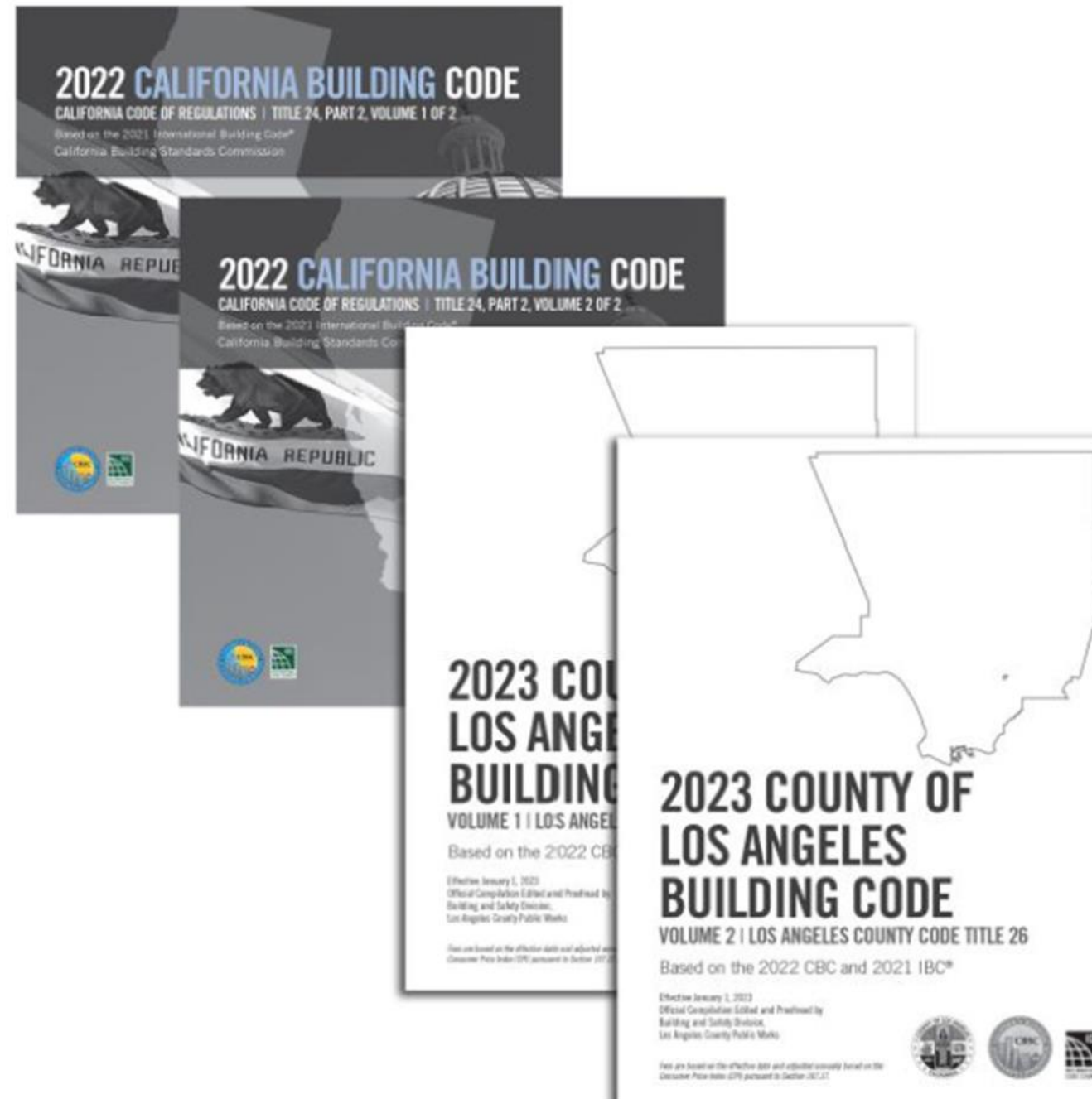
PROPERTY TYPE	GEOLOGIC OR GEOTECHNICAL HAZARD* IMPACTING THE PROPERTY?		HAZARD HAS BEEN PREVIOUSLY ELIMINATED, MITIGATED, OR AVOIDED		ELIGIBLE FOR LIMITED REPORT**
<i>Sites in Liquefaction Hazard Zone on SHMA Map</i>	Yes	AND	No	THEN	NO - a Comprehensive Report is required to evaluate and mitigate liquefaction hazards per Building Code Section 111.
<i>Sites in Earthquake-Induced Landslide Hazard Zone on SHMA Map</i>	Yes	AND	No	THEN	NO - a Comprehensive Report is required, including complete Section 111 findings, to evaluate and mitigate earthquake-induced landslide hazards per Building Code Section 111.
<i>Sites within 500 feet of Mapped MCFZ fault trace (FER-229)</i>	Yes	AND	No	THEN	NO - a Comprehensive Report is required to evaluate fault surface rupture hazards per Building Code Section 112. Applies
<i>Flat Sites:</i> Properties without slopes steeper than 3:1 (H:V, 18°) onsite or that may otherwise impact the property	No known hazards	AND	N/A	THEN	YES - Complete Section 111 findings will be required
	Yes	AND	Eliminated or Avoided	THEN	YES - Complete Section 111 findings will be required
<i>Sloping Sites:</i> Properties with slopes steeper than 3:1 (H:V, 18°) onsite or that may otherwise impact the property (not bluff sites)	No known hazards	AND	N/A	THEN	YES - Ensure Limited Report addresses ascending (building clearance) and descending (foundation setback) slope setbacks, slope stability, etc.; complete Section 111 findings will be required.
	No known hazards	AND	Foundation setback from bluff conforms to CBC 1808.7	THEN	YES - Ensure the structure and any proposed additions conform to the Planning Department's requirement for bluff-edge setback; complete Section 111 findings will be required
<i>Bluff Sites:</i> Properties located along the bluff edge, as described in a "Bluff Edge Determination" by the Planning Department	No known hazards	AND	Foundation setback from bluff conforms to CBC 1808.7	THEN	YES - Ensure the structure and any proposed additions conform to the Planning Department's requirement for bluff-edge setback; complete Section 111 findings will be required
	Yes	AND	No	THEN	NO - a Comprehensive Report is required: ensure the structure

* Geologic and geotechnical hazards include building sites subject to landslide, settlement or slippage as identified in Building Code sections 110 and 111. This includes areas of slope instability (i.e., shallow and deep landslides, mud/debris flows, rockfalls, etc.), seismic hazard zone areas subject to liquefaction or earthquake-induced landsliding (pursuant to Public Resources Code 2690 et seq.), and fault surface-rupture hazards



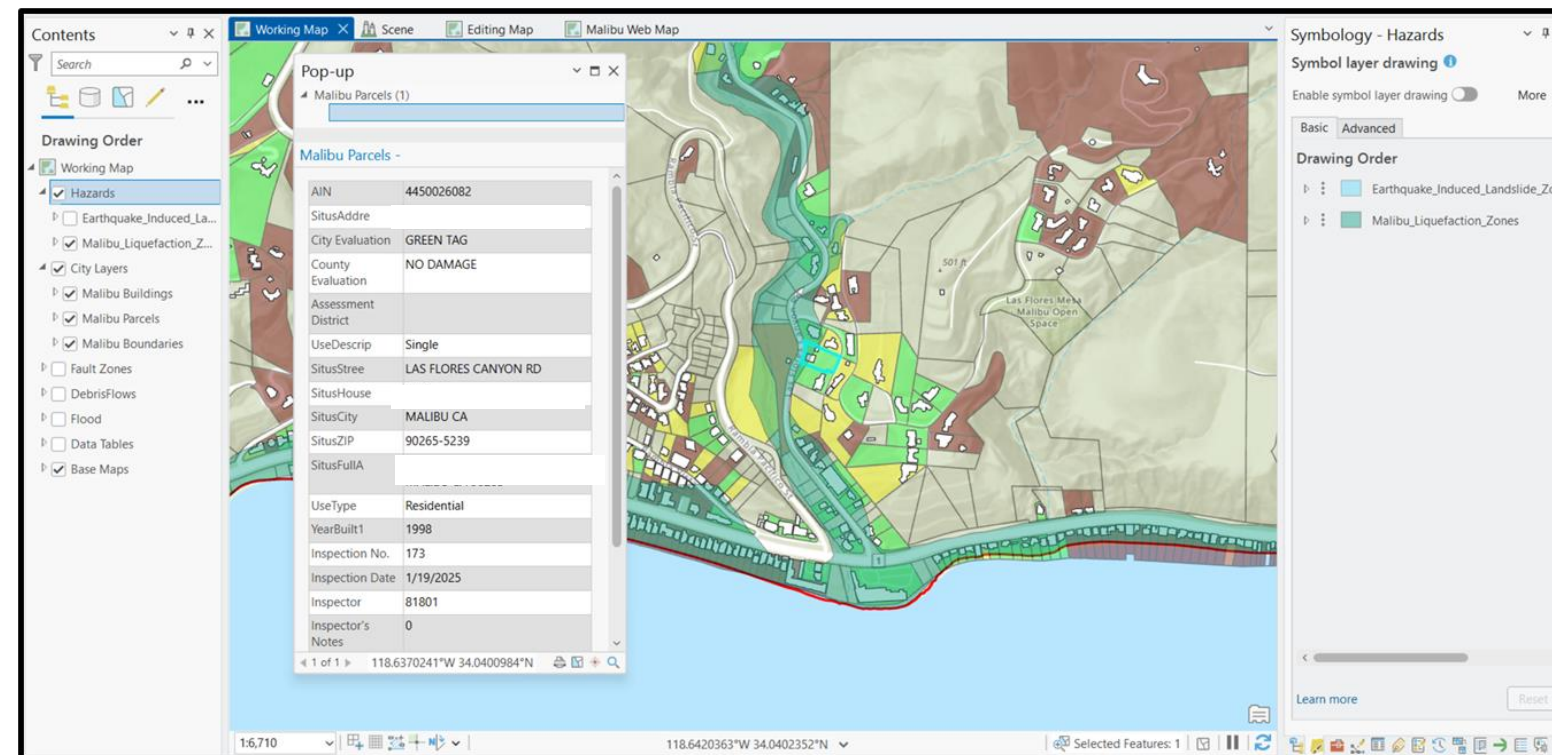
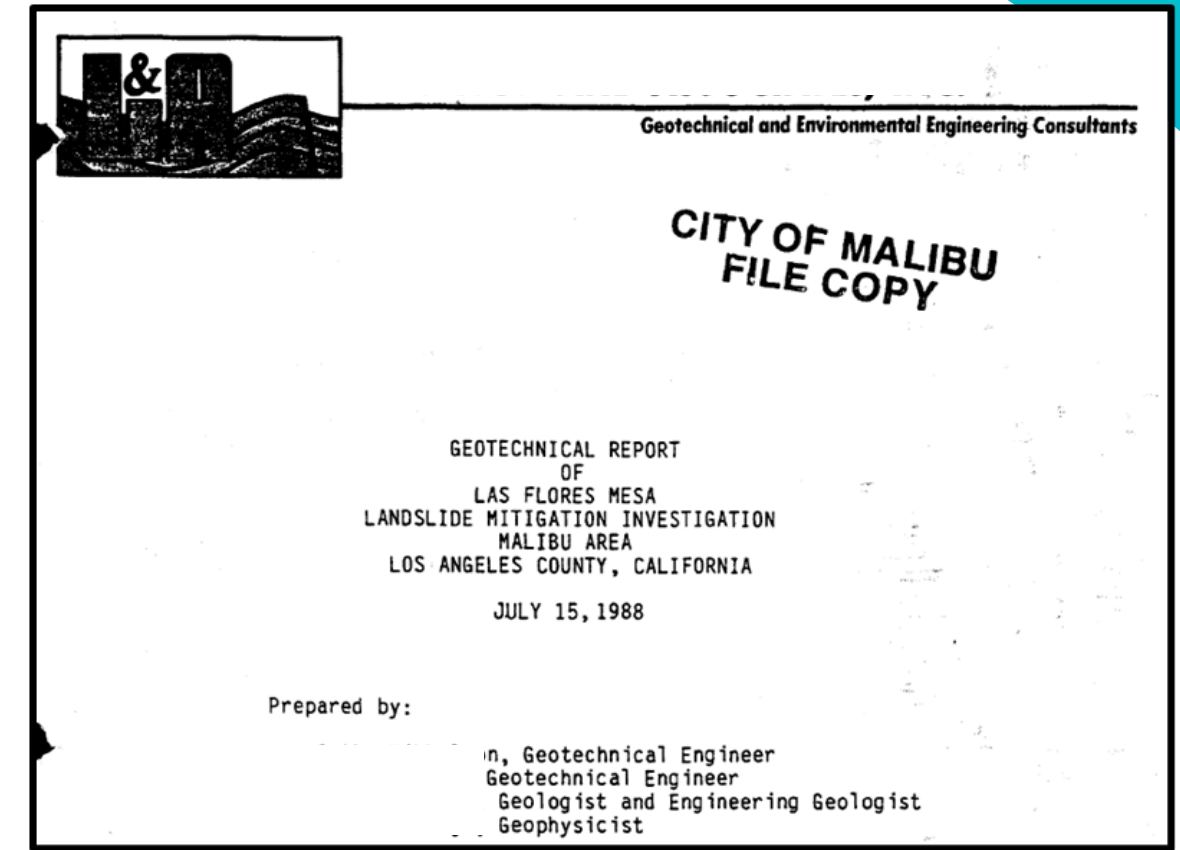
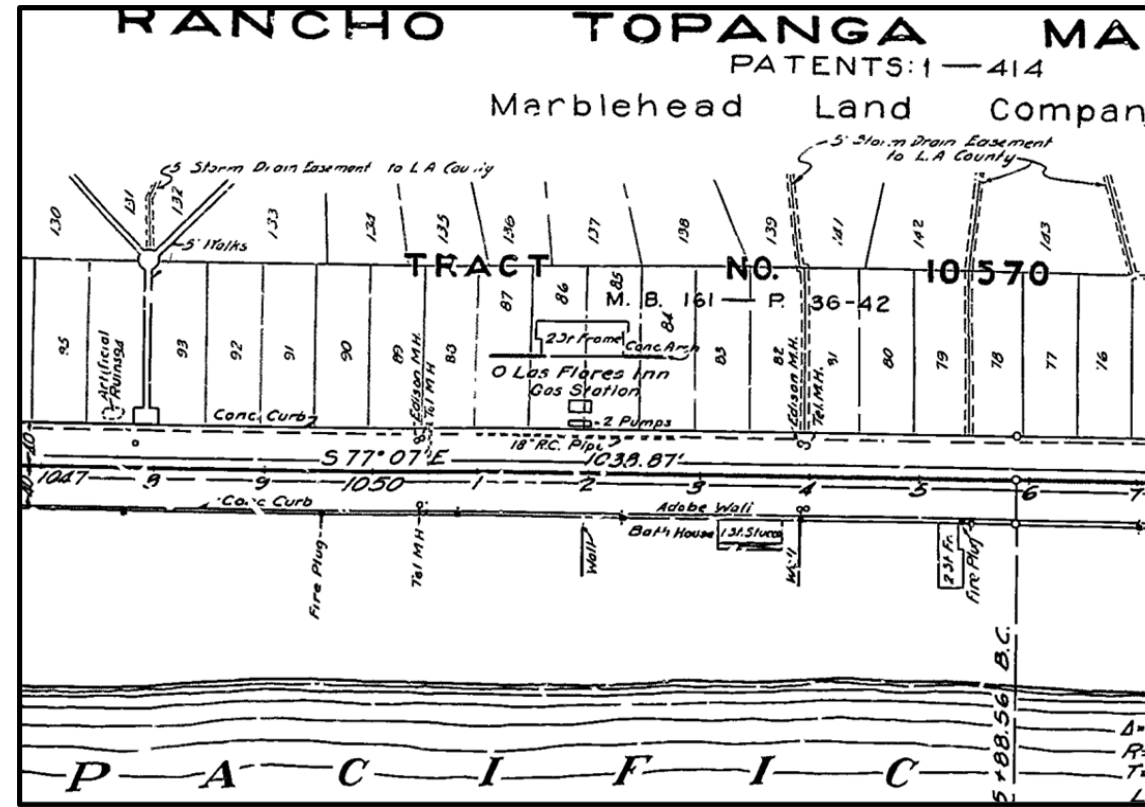
GEOLOGY AND GEOTECHNICAL ENGINEERING STANDARDS

- CBC 2022, Chapters 16 Seismic, 18 Foundation and Soils, and Appendix J Grading
- Los Angeles County Code Sections 110 and 111 regarding disaster rebuilds
- Malibu Municipal Code – all sections pertaining to slopes, grading, site development and OWTS
- City Guidelines for Geotechnical Reports (current version, update coming Fall 2025)
- NEW** Fire Rebuild Guidelines (end of March)
- All other standards applicable to professional practice (e.g. LADBS Information Bulletins)



INFORMATION INNOVATION

- Parcel Geo and Coastal Information Sheets
- New GIS Mapping Tools
- Captured Lost Public Agency Information for City Database and Use
- One-Stop General Geology Resource Webpage for public reports & links
- NEW photo resources summary



GEO TECHNICAL AND COASTAL WORKSHEET - FIRE REBUILD
ESD Geology Department, City of Malibu

PROPERTY INFORMATION		PROPERTY OWNER INFORMATION	
Address:		Name:	
APN:		Phone:	
Construction Year:		Email:	
BEACHFRONT		OWNER REPRESENTATIVE INFORMATION	
FEMA Flood Elev.:	N/A	Name:	Same as owner
Existing FF Elev.:		Phone:	
NOTES:	Not beachfront	Email:	
GEOLOGIC HAZARDS		PROPOSED REUSE OF EXISTING STRUCTURES*	
Known Hazards		Foundation	Yes
Landslide Assessment District	No	Basement Retaining Walls	Yes
		Site Retaining Walls	Yes
USGS/CGS Mapped Landslide	No	Seawall	N/A
Potential Hazards		Revetment	N/A
In CGS Liquefaction Zone	No		
In CGS EQ-Induced Landslide Zone	Yes	Was the property damaged/destroyed in the	
In CGS Fault-Rupture Zone	No	1993 Old Topanga Fire?	Yes
Within 500' of Malibu Coast Fault	No	Foundation reused after 1993 fire?	Yes
IN/Near USGS Debris-Flow Hazard	No		

***IMPORTANT NOTE FOR STRUCTURAL REUSE:** A Structural Feasibility Report prepared by a qualified engineer that demonstrates conformance with the CURRENT BUILDING CODE STANDARDS will be required for all pre-fire structures that are proposed to be reused in the current fire rebuild project.

SOILS REPORTS

NOTES The house has a conventional OWTS, with 2 active seepage pits and 2 future pits that do not appear to have been used.

Eagle Viewer Link https://egis3.gis.lacounty.gov/ipa_s?apn=4451014065
Coastal California N/A

Rev. 03-05-25

INFORMATION INNOVATION

Advances in Hazard Data for Temporary Housing Limited Reports

- Woolsey Fire WERT lagged USGS debris flow hazard assessment.
- Debris flows observed within 1 month after Fire.

Franklin & Palisades Fire assessments complete within 1-3 weeks! **GET READY NOW!**

- WERT and USGS flood & debris flow assessment completed quickly.
- LA County warned residents of Feb 13-14 2025 predicted debris flows.

Franklin Fire

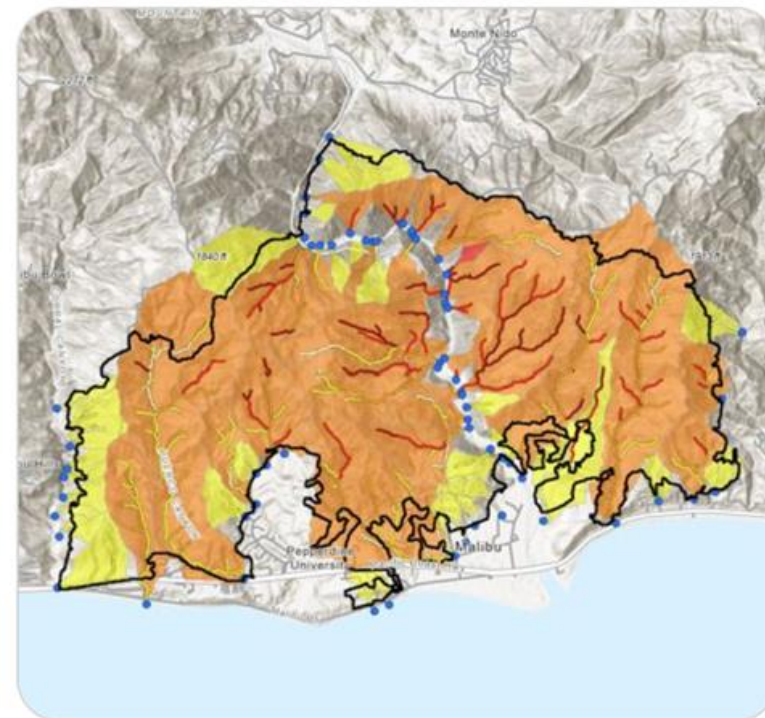
County Affected: Los Angeles

CGS/CAL FIRE WERT Report:

- [Franklin Fire WERT Evaluation](#)

Additional Information:

- [CAL FIRE Franklin Fire Incident Archive](#)
- InciWeb Information: Not available.
- [USGS Post-Fire Debris Flow Hazard Assessment Viewer](#)
- USFS Franklin Post-Fire BAER: Not available (not USFS jurisdiction).



Palisades Fire

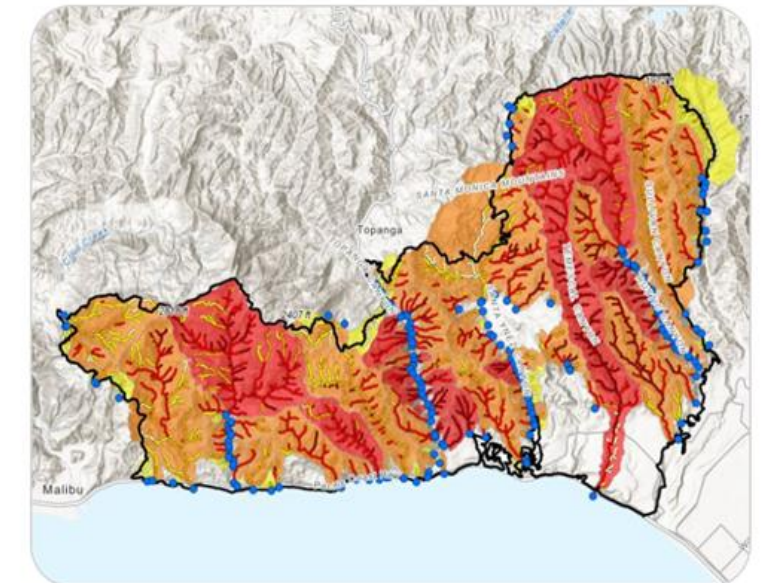
County Affected: Los Angeles

CGS/CAL FIRE WERT Report:

- [Palisades Fire WERT Evaluation](#)

Additional Information:

- [CAL FIRE Palisades Fire Incident Archive](#)
- InciWeb Information: Not available.
- [USGS Post-Fire Debris Flow Hazard Assessment Viewer](#)
- USFS Palisades Post-Fire BAER: Not available (not USFS jurisdiction).



COASTAL ENGINEERING



SITE CONDITIONS



SITE CONDITIONS



SITE CONDITIONS



DRAINAGE AND SEAWALLS



COASTAL REVIEW PROCESS

1. Review information regarding parcel – telecon, meeting at Fire Rebuild Center

 • **KEY: ELEVATIONS and EXISTING SITE CONDITIONS** 

- FEMA Base Flood Elevation, PCH, Top of wall existing or common seawall

2. Parcel Geotechnical and Coastal Worksheet – information summary & photo links

3. Planning pre-screen – **Coastal and EH for all beachfront**

4. Pre-design meeting with your team to review Coastal Engineering standards and guidelines

5. Building Plan Check Review – Coastal and geotechnical review of beachfront parcel will occur simultaneously in joint review letter.

GOAL: Provide guidance to resolve challenges with site and design conditions.

KEY COASTAL DESIGN CONSIDERATIONS

- 1. PROPERTY OWNER COOPERATION and DESIGN OPTIMIZATION.**
- 2. FEMA Base Flood Elevation vs. Wave Uprush Elevation**
- 3. Sea Level Rise – California Coastal Commission (CCC) 2024 Adopted Guidance**
 - Intermediate to High vs. Intermediate
- 4. Existing Seawalls**
 - Structural evaluation, may need modifications
 - Most existing seawalls are too low, elevation issues
- 5. New Seawalls**
 - Community Seawalls – standards need to be developed
- 6. Address Existing Conditions**
 - Remnant structures e.g. revetments, storm drains on PCH
 - Structural support of PCH road embankment

COASTAL GUIDELINES

1. Governor's Orders vs. Code

2. Sea Level Rise – CCC 2024 Adopted Guidance

- Recommends using Intermediate to High, "where feasible"
- Evaluate Intermediate to High (6.6 ft) and Intermediate (4.7 ft)
- SLR evaluation timeframe must allow for construction time
- Adaptive and remedial measures are only acceptable near end of project life

3. Coastal Engineering Report

- Wave uprush will likely govern shoreline protection
- FEMA Base Flood Elevation will likely govern Finished FE
- There are always exceptions

4. Joint Baseline Reports Allowed Where Feasible

- Still required site & project specific recommendations based on common report

Ready by March 31, 2025: Parcel-specific guidance available now.



COASTAL ENGINEERING STANDARDS

- FEMA construction standards
- CBC 2022, Los Angeles County Code 2023
- Appendix G Flood Proof Construction
- Malibu Municipal Code – all sections site development and OWTS
- City Guidelines for Coastal Engineering Reports (current version, update coming Fall 2025)
- **NEW** Fire Rebuild Guidelines (end of March)
- All other standards applicable to professional practice (e.g. Business and Professions Code)



CALIFORNIA COASTAL COMMISSION
SEA LEVEL RISE POLICY GUIDANCE

*Interpretive Guidelines for Addressing
Sea Level Rise in Local Coastal Programs
and Coastal Development Permits*



Original Guidance unanimously adopted – August 12, 2015
Science Update unanimously adopted – November 7, 2018
2024 Update unanimously adopted – November 13, 2024



FEMA Fact Sheet

Building Code Requirements That Exceed or Are More Specific Than the National Flood Insurance Program

This fact sheet summarizes the flood-resistant provisions of the 2021 International Codes (I-Codes) and American Society of Civil Engineers (ASCE) 24-14, *Flood Resistant Design and Construction*, that are “higher standards” and that are more specific than the National Flood Insurance Program (NFIP) requirements.

Comparing NFIP and “Higher Standards” in Building Codes

Table 1 compares the requirements of the National Flood Insurance Program (NFIP) for buildings and structures to the flood-resistant provisions of the 2021 International Codes (I-Codes) and the referenced standards by the American Society of Civil Engineers (ASCE).

The left column summarizes the NFIP requirements for buildings and structures, with the specific citations referring to Title 44 Code of Federal Regulations (CFR) Part 60 for land management and use. The right column summarizes the provisions of the I-Codes and referenced standards that are either “higher standards” or more specific than the corresponding NFIP requirement. The I-Codes and ASCE standards referenced in Table 1 are:

- 2021 International Building Code (IBC)
- 2021 International Residential Code (IRC)
- 2021 International Existing Building Code (IEBC)
- 2021 International Mechanical Code (IMC)
- 2021 International Plumbing Code (IPC)
- 2021 International Swimming Pool and Spa Code (ISPSA)
- ASCE 24-14, *Flood Resistant Design and Construction*
- ASCE 7-16, *Minimum Design Loads and Associated Criteria for Buildings and Other Structures*

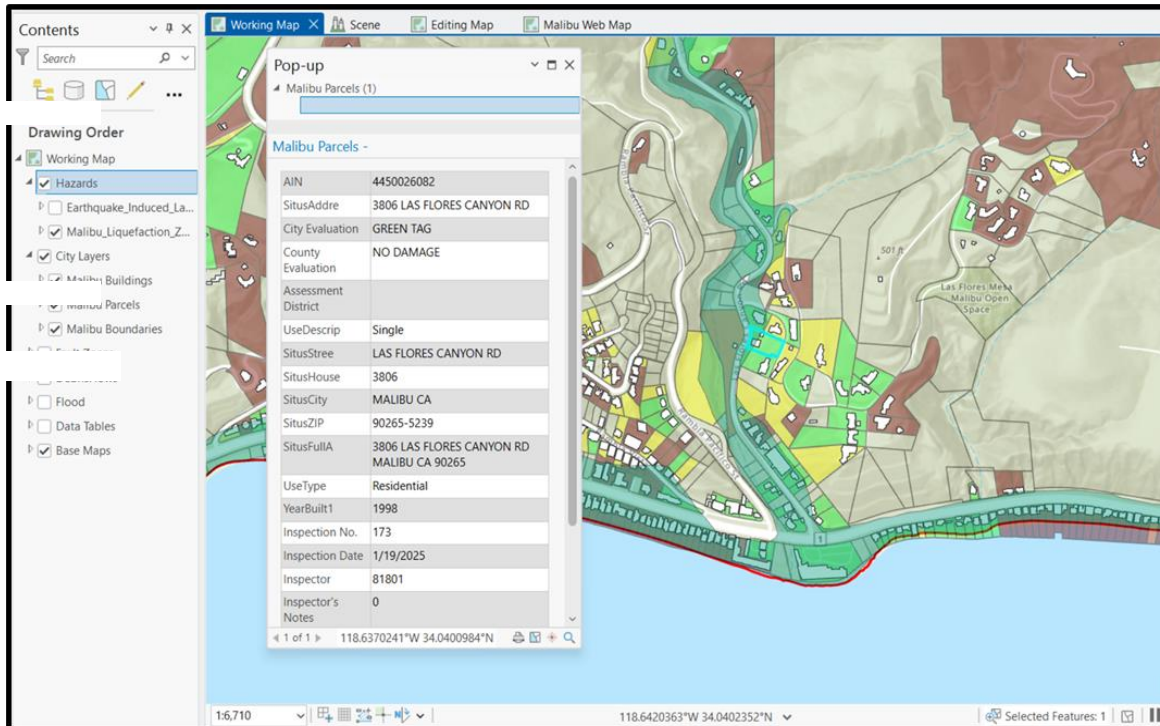
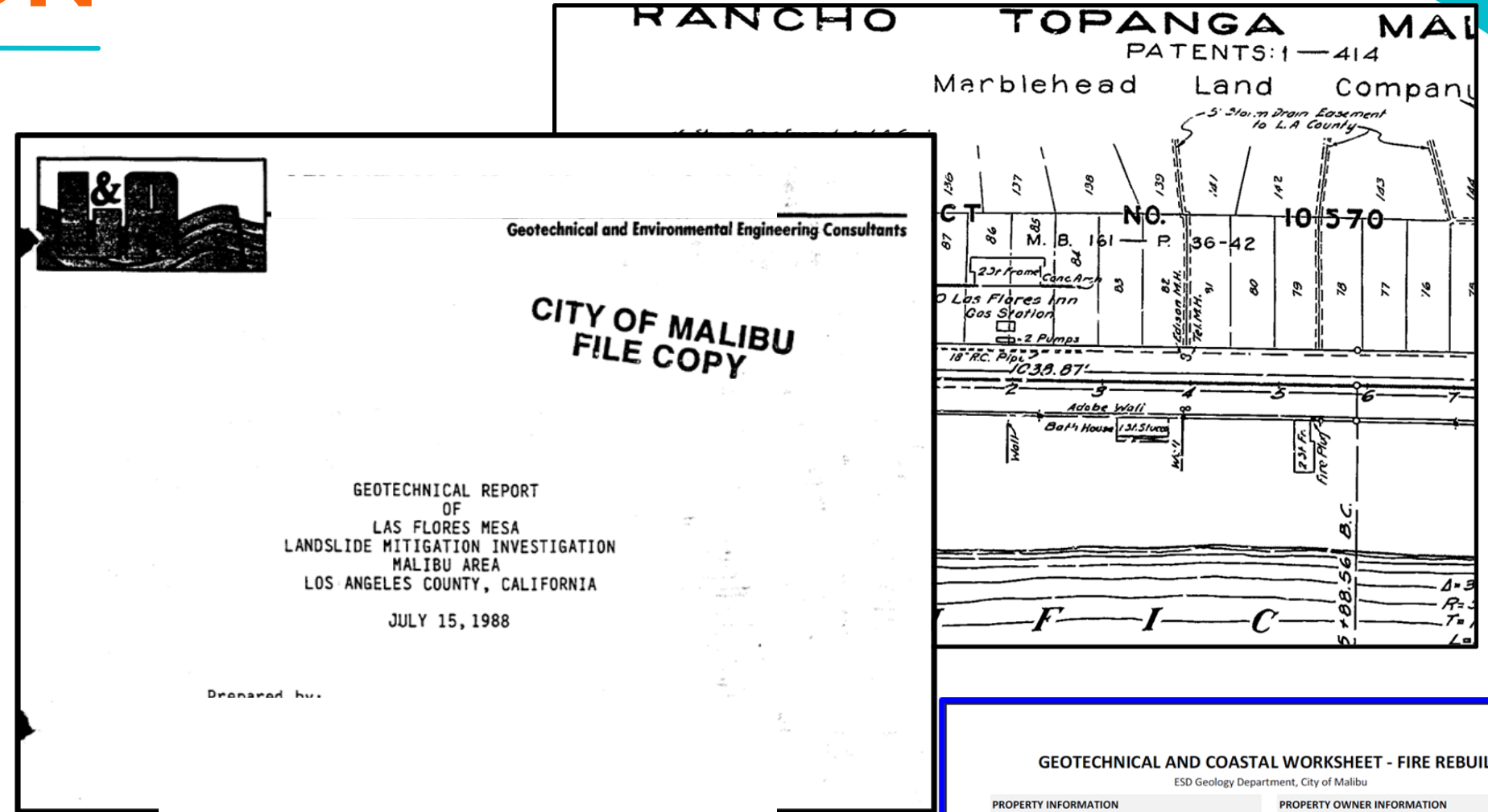
FEMA

May 2021 1



INFORMATION INNOVATION

- Parcel Geo and Coastal Information Sheets
- New GIS Mapping Tools
 - Geo hazards, parcel information
- Captured Lost Public Agency Information for City Database and Use
 - Caltrans PCH surveys, coastal surveys
 - Shoreline Protection Device
- Summary Information for City Database and Use
- One-Stop General Coastal Resource Webpage
- NEW Photo Resources Summary
 - LA County Visualization Tool – Eagleview
 - California Coastline.org (Oct 2024, Feb 2025)



GEO TECHNICAL AND COASTAL WORKSHEET - FIRE REBUILD	
ESD Geology Department, City of Malibu	
PROPERTY INFORMATION	PROPERTY OWNER INFORMATION
Address: _____	Name: _____
APN: _____	Phone: _____
Construction Year: _____	Email: _____
BEACHFRONT	OWNER REPRESENTATIVE INFORMATION
FEMA Flood Elev. N/A	Name: Same as owner
Existing FF Elev. _____	Phone: _____
NOTES Not beachfront	Email: _____
GEOLOGIC HAZARDS	PROPOSED REUSE OF EXISTING STRUCTURES*
Known Hazards	Foundation Yes
Landslide Assessment District No	Basement Retaining Walls Yes
USGS/CGS Mapped Landslide No	Site Retaining Walls Yes
Potential Hazards	Seawall N/A
In CGS Liquefaction Zone No	Revetment N/A
In CGS EQ-Induced Landslide Zone Yes	Was the property damaged/destroyed in the
In CGS Fault-Rupture Zone No	1993 Old Topanga Fire? Yes
Within 500' of Malibu Coast Fault No	Foundation reused after 1993 fire? Yes
IN/Near USGS Debris-Flow Hazard No	
*IMPORTANT NOTE FOR STRUCTURAL REUSE: A Structural Feasibility Report prepared by a qualified engineer that demonstrates conformance with the CURRENT BUILDING CODE STANDARDS will be required for all pre-fire structures that are proposed to be reused in the current fire rebuild project.	
SOILS REPORTS	
NOTES The house has a conventional OWTS, with 2 active seepage pits and 2 future pits that do not appear to have been used.	
Eagle Viewer Link https://egis3.gis.lacounty.gov/ipa_s?apn=4451014065	
Coastal California N/A	

INFORMATION INNOVATION



FIRE DEPARTMENT



LOS ANGELES COUNTY FIRE DEPARTMENT

- Reviews for compliance with fire code and fuel modification requirements.
- Fire Department plan review and approval is required for the rebuilding of all destroyed structures.

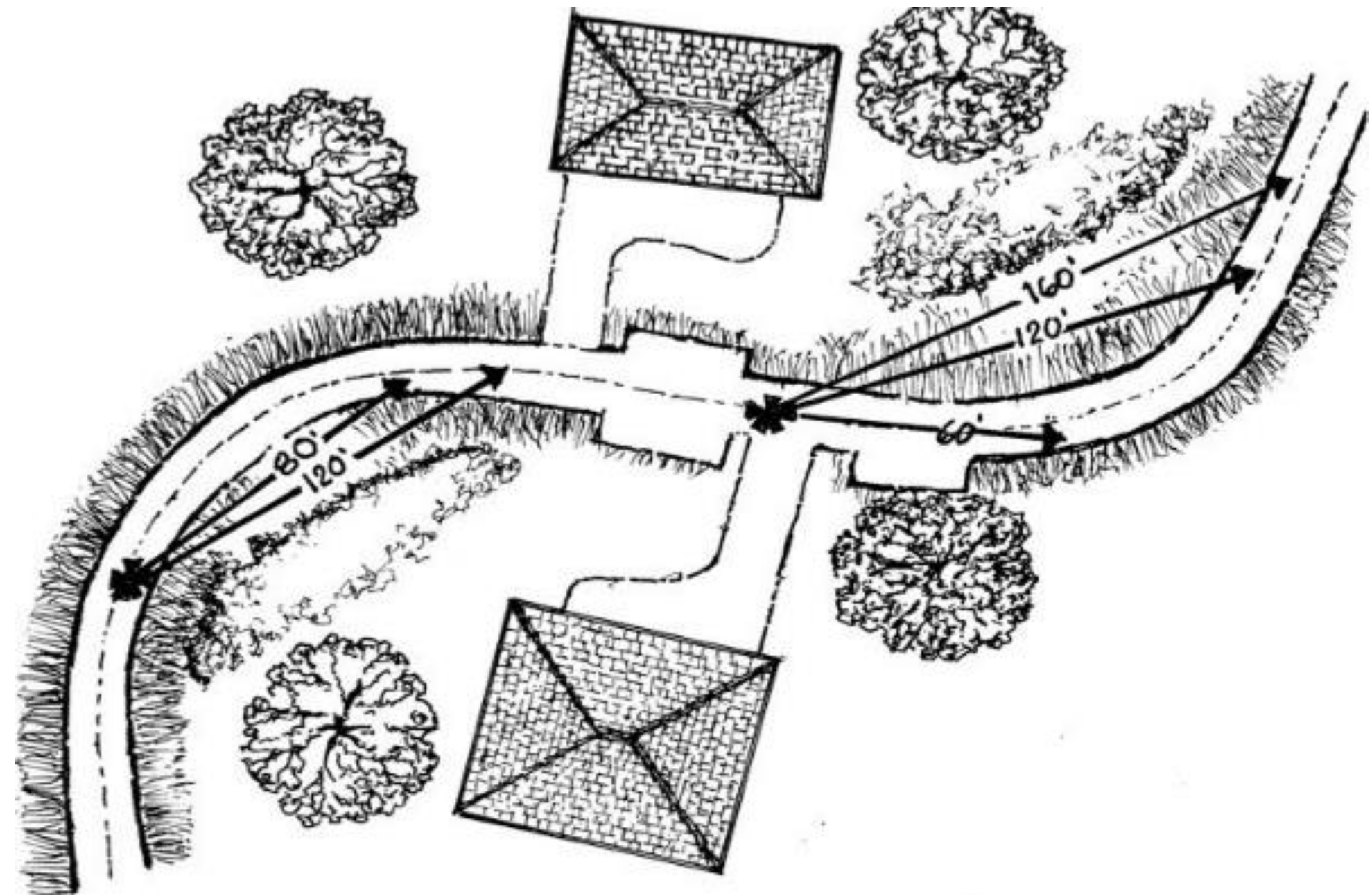
Questions about the plan review process for rebuilding:

- **Chief Nick Duvally**
 - Nick.Duvally@fire.lacounty.gov
- **Patricia Zepeda**
 - Patricia.Zepeda@fire.lacounty.gov
- Calabasas/Malibu Field Office, 818-880-0341



FIRE REVIEWS

- Fire Access
- Occupancy approval
- Fire sprinklers

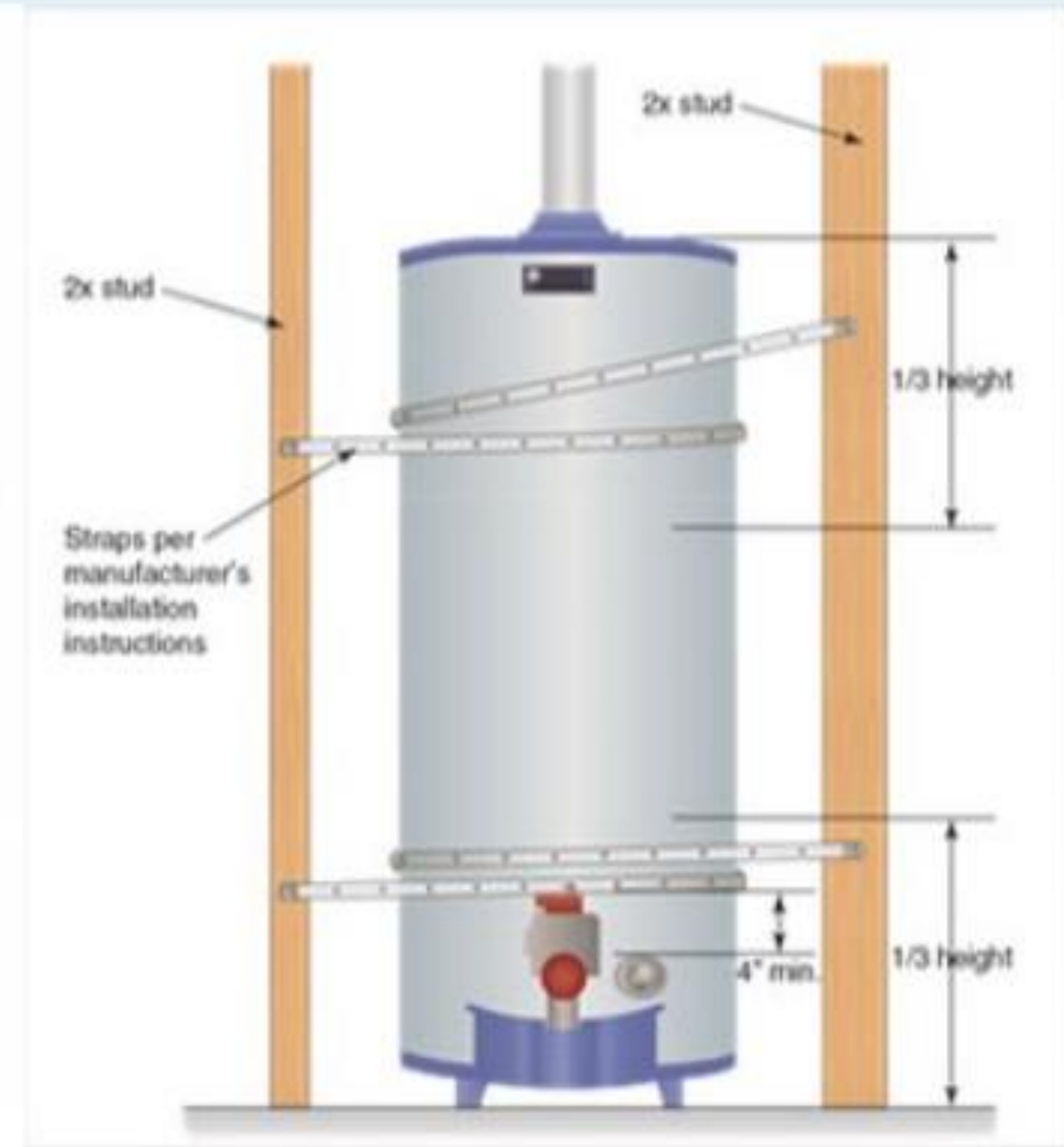


UPCOMING CODE UPDATES



R301.2.2.10 Seismic Restraint

Anchorage requirements are expanded to include seismic restraint for **all appliances** needing seismic restraint – not solely water heaters and thermal storage units



2024 INTERNATIONAL WILDLAND- URBAN INTERFACE CODE® (IWUIC®)

Sacramento, California – On February 26, 2025, the State of California adopted the 2024 International Wildland-Urban Interface Code® (IWUIC®) as the basis for Title 24, Part 7, 2025 California Wildland-Urban Interface Code to address escalating wildfire risks, enhance fire resilience with science-based standards, and set the benchmark for safer, more sustainable communities in fire-prone areas.

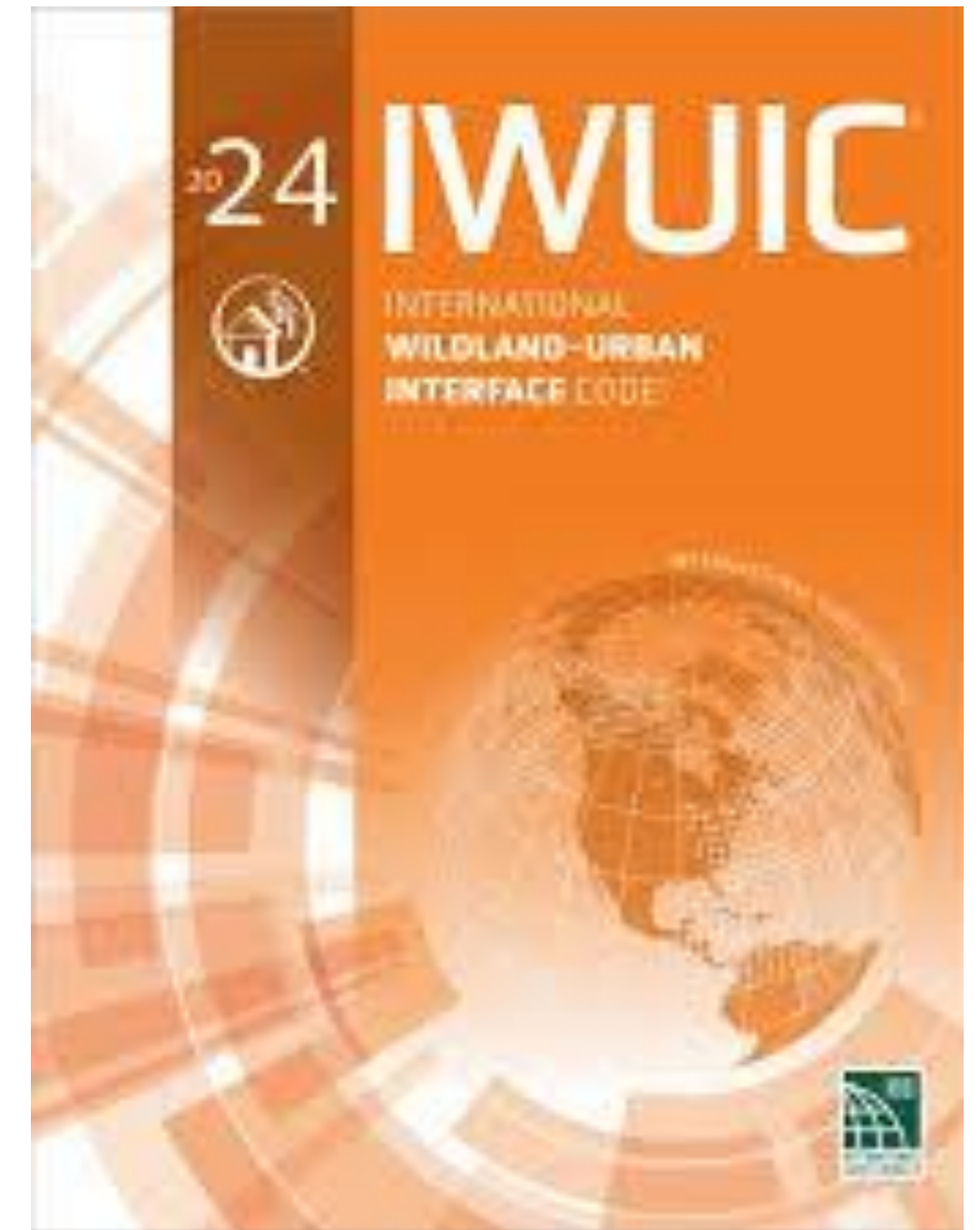
California's adoption of the 2024 IWUIC is the result of a multi-year collaboration between the CAL FIRE Office of the State Fire Marshal, the California Fire Prevention Officers (CAL FPOs), California Building Officials (CALBO), the International Code Council (ICC), the California Building Industry Association (CBIA), and wildfire stakeholders culminating with rulemaking by the California Building Standards Commission (CBSC).



2024 INTERNATIONAL WILDLAND- URBAN INTERFACE CODE® (IWUIC®)

The 2024 IWUIC:

- Establishes regulations to safeguard life and property from the intrusion of wildland fire and to prevent structure fires from spreading to wildland fuels.
- Regulates defensible space, and provides ignition-resistant construction requirements to protect against fire exposure and resist ignition by burning embers.
- Provides standards for emergency access, water supply and fire protection.
- Provides requirements for automatic fire suppression and safe storage practices.
- Is fully compatible with all of ICC's International Codes.
- Is founded on data collected from tests and fire incidents, technical reports and mitigation strategies from around the world.





2025 Building Energy Efficiency Standards

Energy Commission Adopts Updated Building Standards Expanding Requirements for Heat Pumps and Electric-Ready Buildings

For Immediate Release: September 11, 2024



ALTERNATE MATERIALS, DESIGNS, AND METHODS OF CONSTRUCTION

VOLUME 1, CBC SECTION 104.2.8

The [Building Official](#) may approve on a **case by case basis**, any such alternate, provided that he or she finds that the material, appliance, installation, device, arrangement, design, or method of construction or work offered is, for the purpose intended, at least the equivalent of that prescribed in this Code in quality, [strength](#), effectiveness, [fire resistance](#), and other life-safety factors, durability, planning and design, energy, material resource efficiency and conservation, environmental air quality, performance, water, and sanitation.

The [Building Official](#) shall require that sufficient evidence or proof be submitted to substantiate any claims that may be made regarding its use.



LEGISLATIVE UPDATE - CALBO



ONE-STOP SHOP REBUILD CENTER



MALIBU REBUILD CENTER – NOW OPEN!

Opened:

Monday, 3/10/25

- Since then, staff have assisted **33 applicants and homeowners in total**

Address:

23805 Stuart Ranch Road, Suite 240

Schedule:

Monday-Friday, 8AM – 4PM

Contact:

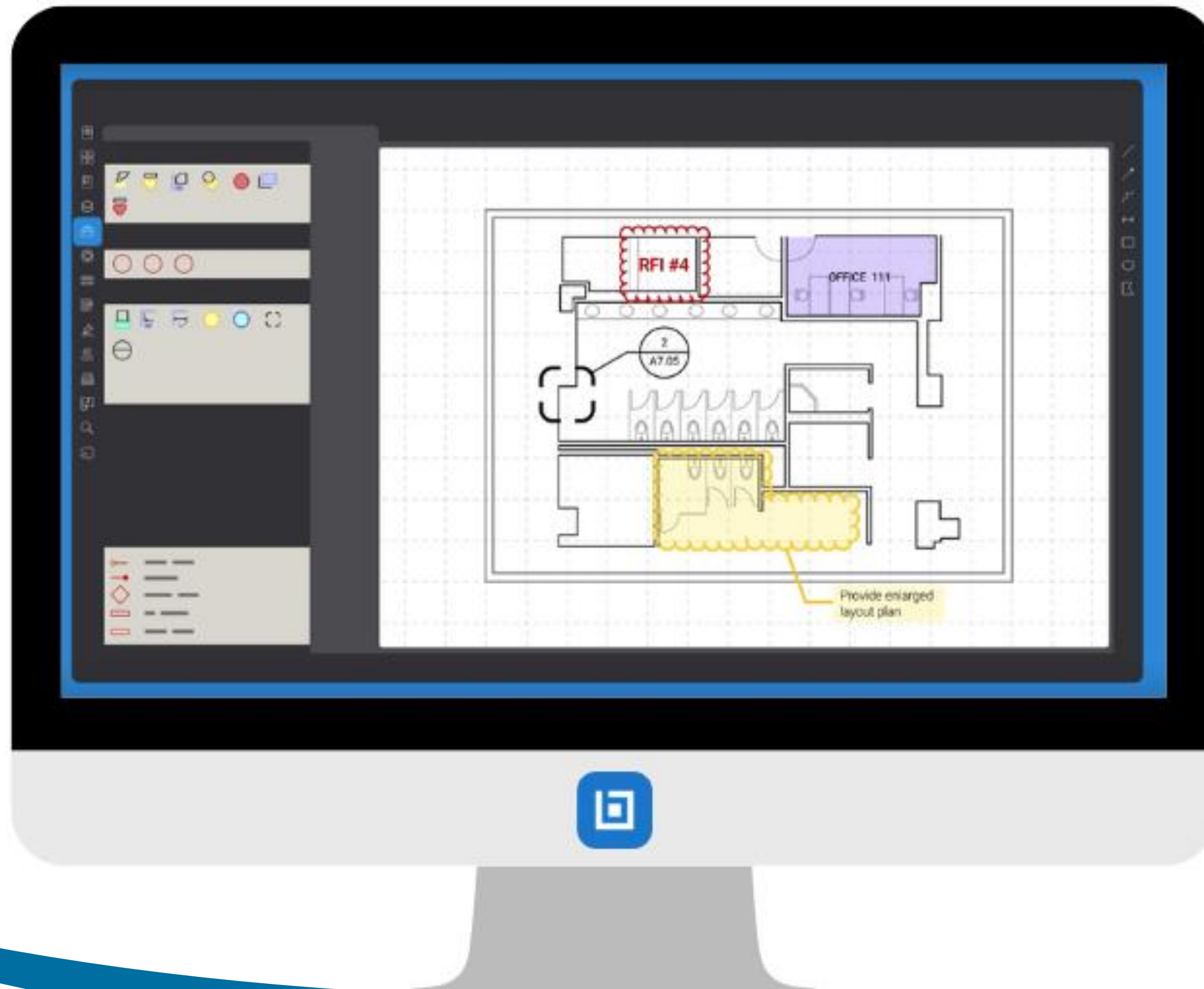
(310) 456-2489, ext. 400



MALIBU REBUILD CENTER TEAM



DIGITAL PLAN CHECK REVIEWS (BLUEBEAM)



BLUE BEAM STUDIO SESSION

2021-05-21 11:18:37 AM

The screenshot displays a Bluebeam Studio Session interface. On the left, a sidebar shows a list of users: 'Joined' (None), 'Not Joined (0)', 'Online (1)' (Oliver Ritchie), and 'Offline (1)' (stephanie). Below this is a 'Documents' list with three files. At the bottom left is a 'Record' panel with a list of actions performed by Oliver Ritchie, including 'Move Markups', 'Move Text Box', 'Added Callout', 'Delete Callout', 'Added Highlight', 'Added Arrow', 'Edit Markups', 'Added Text Box', 'Edited Text Box (Verify Guardrail Height)', 'Move Markups', and 'Move Markups'. The main workspace shows two architectural drawings. The left drawing is a site plan with numbered callouts (1-32) and labels: 'UPPER FLR. ADDITION', 'EXISTING RESIDENCE (NEW SLOPING ROOF WITH NEW OVERHANGS)', and 'EXIST. PIER 4 BAIL & REMOVED'. The right drawing is a detailed floor plan of a residence with rooms labeled: 'MEMBRANE DECKING 1/4" FT. SLOPE', 'DECK', 'BATHROOM', 'BATHRY', 'OFFICE', 'INTERIOR BY CLOSET SYSTEMS CO.', 'SHELVES ABOVE', 'EXIST. M. BATH', and 'EXIST. M. BEDRM'. Red callout boxes with scalloped borders contain the text 'Use Engineered Hardwood' (pointing to a hatched area), 'Kohler Intelligent Toilet with Bidet' (pointing to a toilet fixture), and 'Verify Guardrail Height' (pointing to a yellow highlighted area labeled '3' HT. GUARDRAIL').

INTERNAL GIS TOOLS

The screenshot displays a GIS web application interface with the following components:

- Contents Panel (Left):** Shows a search bar and a drawing order list. The 'Hazards' layer is expanded, showing 'Earthquake_Induced_La...' and 'Malibu_Liquefaction_Z...' as checked items. Other layers include 'City Layers', 'Malibu Buildings', 'Malibu Parcels', 'Malibu Boundaries', 'Fault Zones', 'DebrisFlows', 'Flood', 'Data Tables', and 'Base Maps'.
- Map View (Center):** Displays a map of Malibu with various colored overlays representing different hazard zones. A pop-up window is overlaid on the map, showing details for a selected parcel.
- Pop-up Window (Top Center):** Titled 'Pop-up', it displays a table of data for 'Malibu Parcels (1)'. The data includes:

Malibu Parcels -	
AIN	
SitusAdre	LAS FLORES CANYON RD
City Evaluation	GREEN TAG
County Evaluation	NO DAMAGE
Assessment District	
UseDescrip	Single
SitusStree	LAS FLORES CANYON RD
SitusHouse	
SitusCity	MALIBU CA
SitusZIP	90265-5239
SitusFullA	LAS FLORES CANYON RD MALIBU CA 90265
UseType	Residential
YearBuilt1	1998
Inspection No.	173
Inspection Date	1/19/2025
Inspector	81801
Inspector's Notes	0

- Symbology - Hazards Panel (Right):** Shows 'Symbol layer drawing' options and a drawing order list. The drawing order includes 'Earthquake_Induced_Landslide_Zon' and 'Malibu_Liquefaction_Zones'.
- Map Navigation (Bottom):** Includes a scale of 1:6,710, coordinates (118.6370241°W 34.0400984°N), and a status bar showing 'Selected Features: 1'.



INTERNAL GIS TOOLS

The screenshot displays a GIS web application interface with several key components:

- Contents Panel (Left):** Lists map layers including Working Map, City Layers, Malibu Buildings, Malibu Parcels (selected), Malibu Boundaries, Fault Zones, Hazards, DebrisFlows, Flood, Data Tables, and Base Maps.
- Map View (Center):** Shows a map of Malibu parcels with various zones (Zone X, Zone AE, Zone VE) and a blue area representing a flood zone. A pop-up window is open over a parcel.
- Pop-up Window (Top Left):** Displays details for a parcel with the following data:

Malibu Parcels (1)	
AIN	
SitusAddre	AMBLA VISTA
City Evaluation	100% DESTROYED
County Evaluation	DESTROYED (>50%)
Assessment District	
UseDescrip	Two Units
SitusStree	RAMBLA VISTA
SitusHouse	
SitusCity	MALIBU CA
- Symbology Panel (Right):** Shows the symbology for Malibu Parcels, including a legend for City Evaluation with 10 symbol classes and a color scheme.



INFORMATION INNOVATION

- Parcel Geo and Coastal Information Sheets

- New GIS Mapping Tools

- Geo hazards, parcel information

- Captured Lost Public Agency Information for City Database and Use

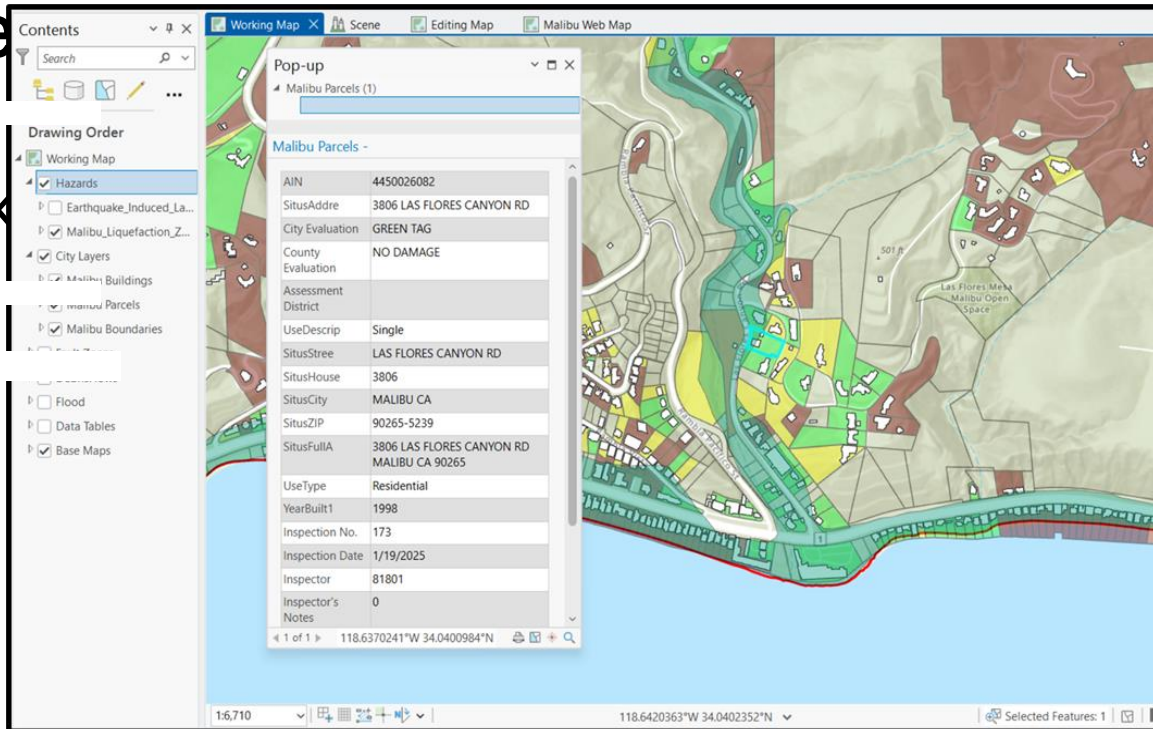
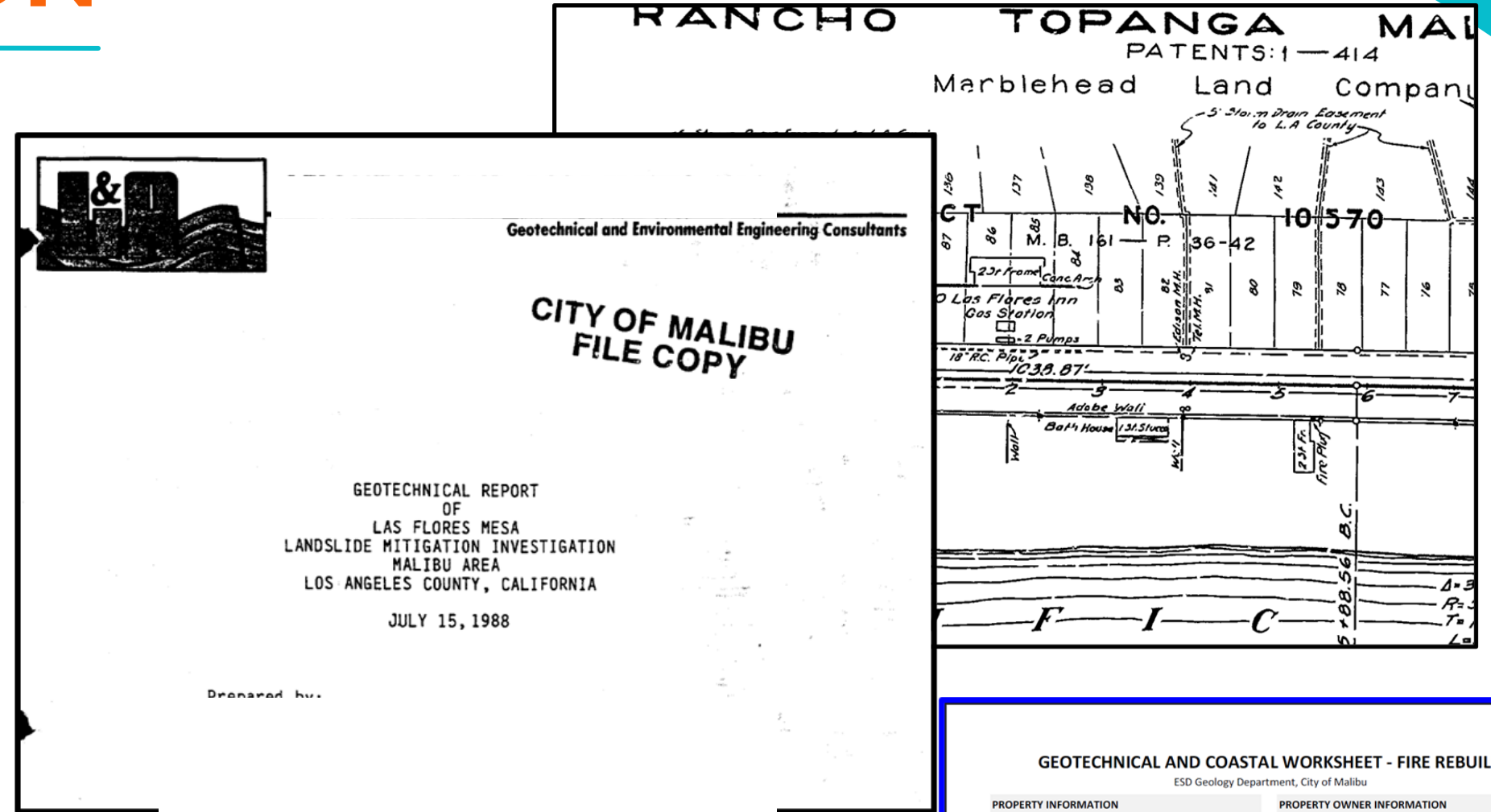
- Caltrans PCH surveys, coastal surveys
- Shoreline Protection Device
- Summary Information for City Database and Use

- One-Stop General Geology Resource Webpage for Public Reports

- Las Flores Mesa, Rambla Pacifico, Big Rock Mesa

- NEW Photo Resources Summary

- LA County Visualization Tool – Eagleview
- California Coastline.org (Oct 2024, Feb 2025)



GEOTECHNICAL AND COASTAL WORKSHEET - FIRE REBUILD	
ESD Geology Department, City of Malibu	
PROPERTY INFORMATION	PROPERTY OWNER INFORMATION
Address: _____	Name: _____
APN: _____	Phone: _____
Construction Year: _____	Email: _____
BEACHFRONT	OWNER REPRESENTATIVE INFORMATION
FEMA Flood Elev. N/A	Name: Same as owner
Existing FF Elev. _____	Phone: _____
NOTES Not beachfront	Email: _____
GEOLOGIC HAZARDS	PROPOSED REUSE OF EXISTING STRUCTURES*
Known Hazards	Foundation Yes
Landslide Assessment District No	Basement Retaining Walls Yes
USGS/CGS Mapped Landslide No	Site Retaining Walls Yes
Potential Hazards	Seawall N/A
In CGS Liquefaction Zone No	Revetment N/A
In CGS EQ-Induced Landslide Zone Yes	Was the property damaged/destroyed in the 1993 Old Topanga Fire? Yes
In CGS Fault-Rupture Zone No	Foundation reused after 1993 fire? Yes
Within 500' of Malibu Coast Fault No	
IN/Near USGS Debris-Flow Hazard No	
*IMPORTANT NOTE FOR STRUCTURAL REUSE: A Structural Feasibility Report prepared by a qualified engineer that demonstrates conformance with the CURRENT BUILDING CODE STANDARDS will be required for all pre-fire structures that are proposed to be reused in the current fire rebuild project.	
SOILS REPORTS	
NOTES The house has a conventional OWTS, with 2 active seepage pits and 2 future pits that do not appear to have been used.	
Eagle Viewer Link https://egis3.gis.lacounty.gov/ipa_s?apn=4451014065	
Coastal California N/A	

INTERNAL GIS TOOLS

The screenshot displays a GIS application interface with a central map of Malibu, California. The map shows various terrain features, including Piedra Gorda Canyon and Tuna Canyon Park. A pop-up window titled "Pop-up" is open over a parcel, displaying the following details:

Malibu Parcels -	
AIN	
SitusAdre	ROCA CHICA DR
City Evaluation	100% DESTROYED
County Evaluation	DESTROYED (>50%)
Assessment District	Big Rock Mesa
UseDescrip	Single
SitusStree	ROCA CHICA DR
SitusHouse	
SitusCity	MALIBU CA
SitusZIP	90265-5372
SitusFull.	ROCA CHICA DR MALIBU CA 90265
UseType	Residential
YearBuilt1	1976
Inspection No.	936
Inspection Date	1/20/2025
Inspector	93477
Inspector's Notes	0

On the right side, the "Symbology - pal2025_basins" panel is visible, showing the "Primary symbology" set to "Unique Values" for the field "P_24mmh_LG". The color scheme is a sequential rainbow. The legend table below shows the following classes:

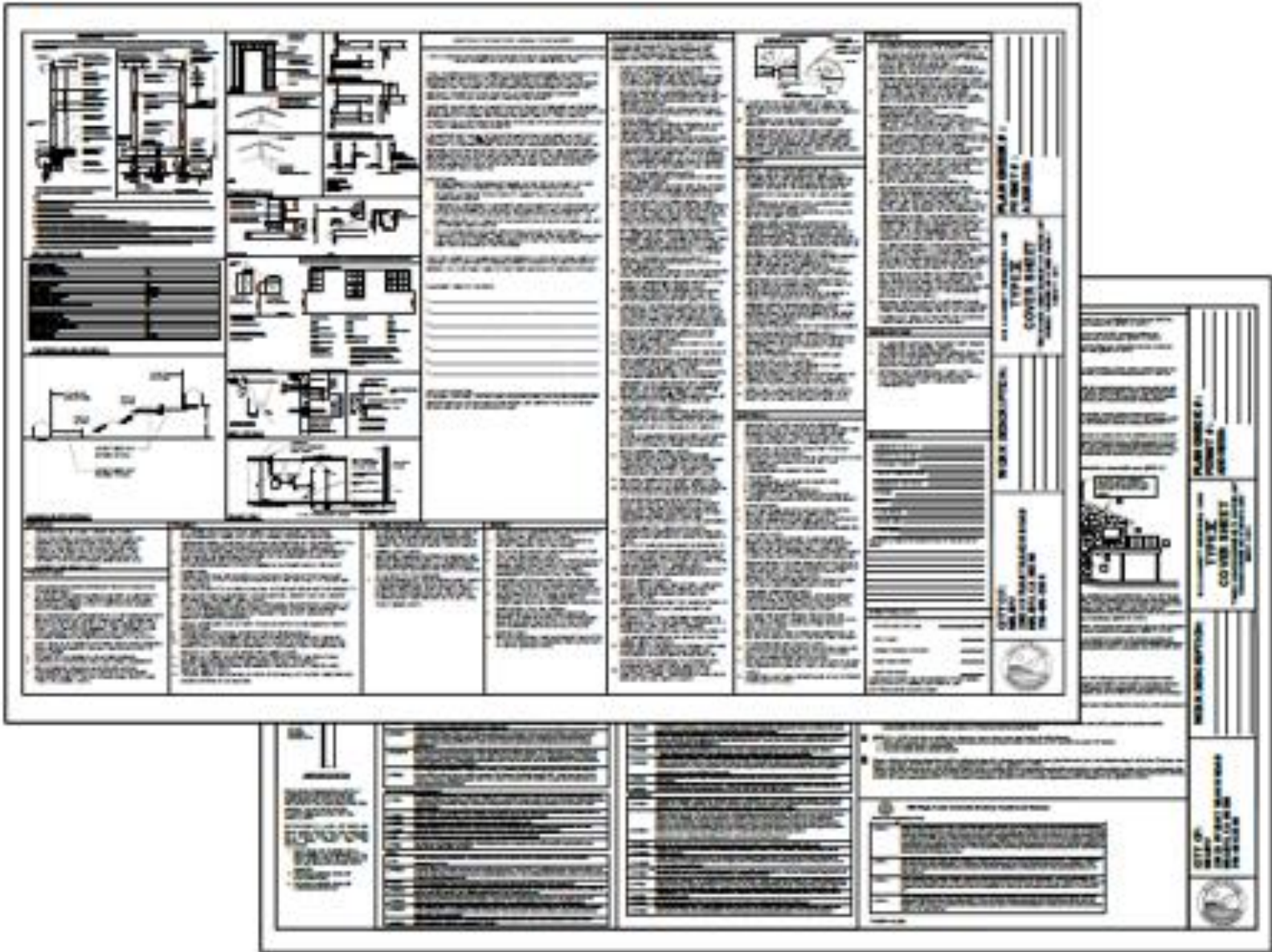
Symbol	Value	Label
Green	0-20%	0-20%
Yellow	20-40%	20-40%
Orange	40-60%	40-60%
Red	60-80%	60-80%
Brown	80-100%	80-100%
Grey	<all other values>	<all oth

The interface also includes a "Contents" panel on the left with a search bar and a "Drawing Order" list. The status bar at the bottom shows coordinates (118.6237065°W 34.0349373°N) and a scale of 1:10,484.

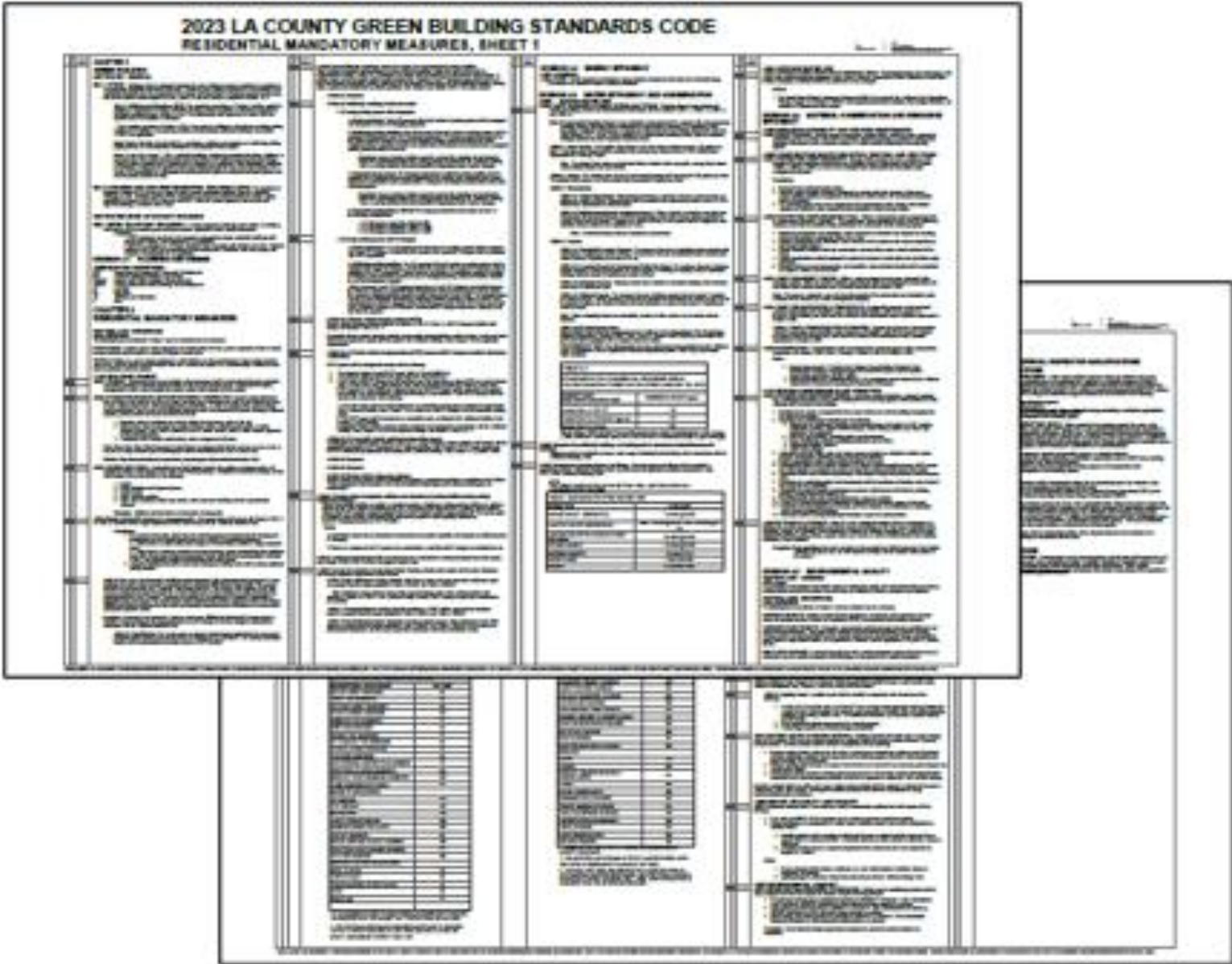


STANDARD SHEETS AVAILABLE TO THE PUBLIC

Type V Construction Note Sheets

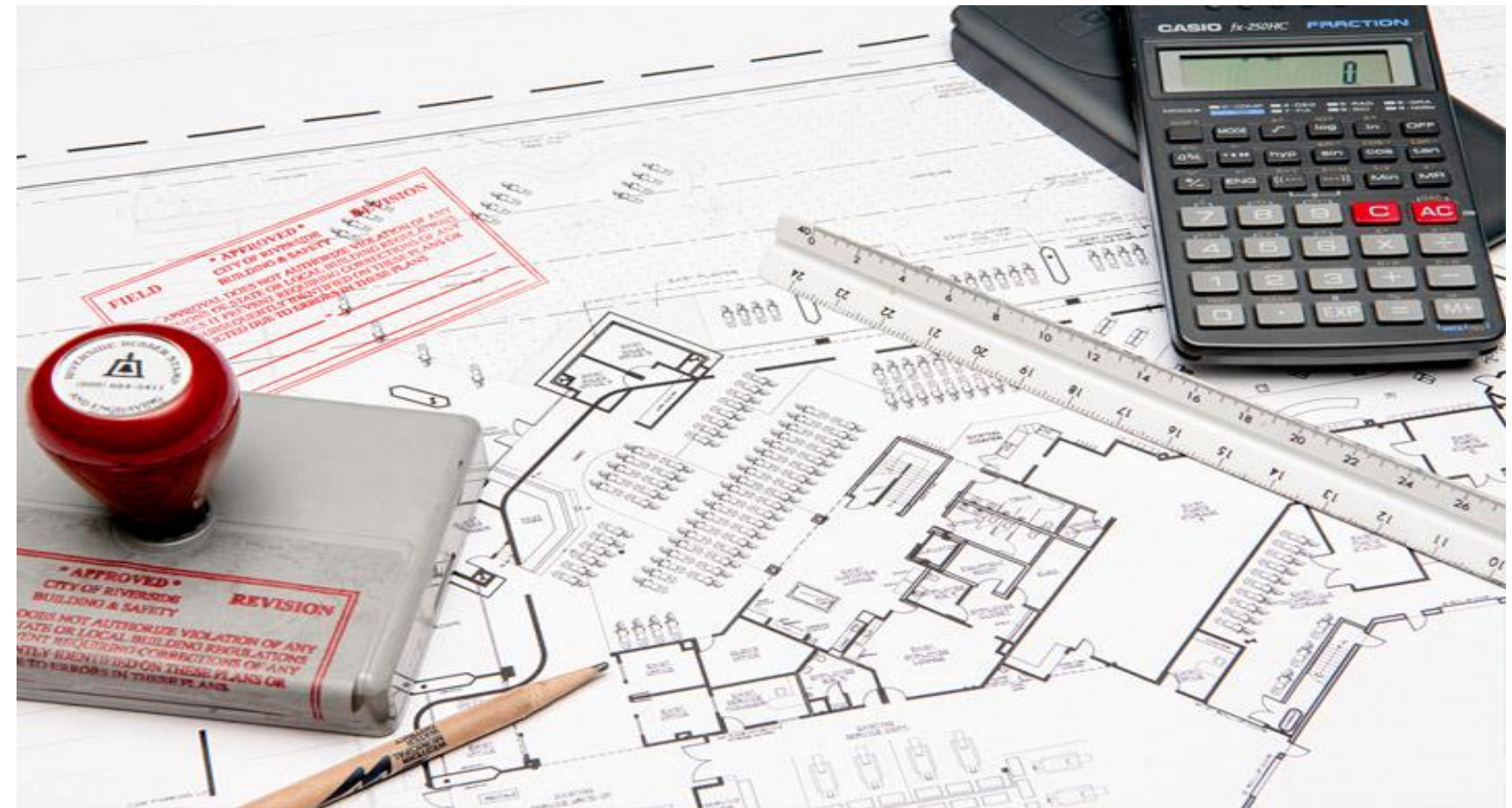


Green Building Standards Note Sheets



STREAMLINE PLAN CHECK INTAKE

- Plan check engineer preliminary plan check reviews
- Checklist for submittal requirements
- Initial plan review = 10 business days
- Recheck reviews = 5-7 business days



STREAMLINE PERMIT ISSUANCE



UPCOMING RECOVERY & REBUILD EVENTS

COMMUNITY MEETINGS FOR REBUILDING

MARCH
18

BEACHFRONT
PROPERTIES

4 p.m. at City Hall and via Zoom

MARCH
25

BIG ROCK, CALLE DE BARCO,
ASSESSMENT DISTRICTS

4 p.m. at City Hall and via Zoom

APRIL
1

RAMBLA PACIFICO, LA COSTA,
LAS FLORES, PENA ROAD,
20717 TO 20759 PCH

4 p.m. at City Hall and via Zoom

APRIL
8

CARBON CANYON, CARBON
MESA, CARBON BEACH TERRACE

4 p.m. at City Hall and via Zoom

APRIL
15

BEACHFRONT
PROPERTIES

4 p.m. at City Hall and via Zoom

APRIL
22

BROAD AND FRANKLINE FIRE
CODE AMENDMENTS

4 p.m. at City Hall and via Zoom



Q & A SESSION



STAY CONNECTED WITH THE CITY OF MALIBU

REBUILDING TOGETHER



maliburebuilds.org

