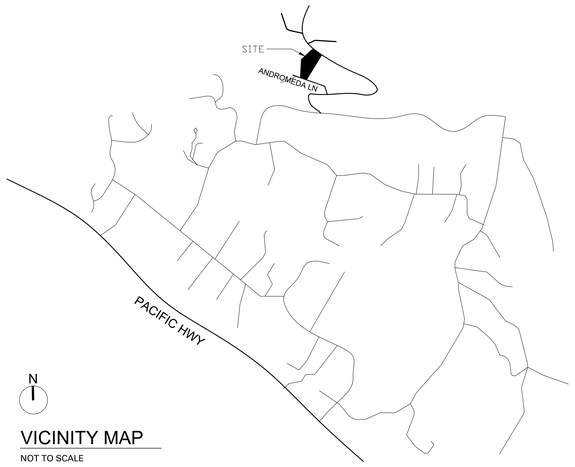
PROJECT LOCATION



VICINITY MAP

NOT TO SCALE





PROJECT INFORMATION

OWNER	PROJECT
Daniel Donovan, Owner's Representative T: 701-870-0989 E: daniel.patrick.donovan@gmail.com Worth Capital Holdings 24 LLC, Owner T: 424-359-9630 E: Holzerpartner@gmail.com	SINGLE FAMILY DWELLING 30051 ANDROMEDA LANE MALIBU, CA 90265
LEGAL DESCRIPTION: RECORD OF SURVEY AS PER 71 PG 28-29 OF R S LOT COM AT SW COR OF LOT 5 TH SE ON SW LINE OF SD LOT 113.58 FT TH N 17deg 27'14" E 154.75 FT TH 34deg 31'03" E	**ASSESSOR PARCEL NUMBER:** 4469004017 LOT 5

ARCHITECT

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CONSULTANTS

LAND SURVEYOR	GEOTECHNICAL ENGINEER
Pacific Land Consultants, INC. 28441 Highridge Road, Suite 230 Rolling Hills Estates, CA 90274 T. 310-544-8689	LK Geotechnical Engineering, INC. Mark Kruger, GE 2345 Project 24-0424-3. Dated: December 15, 2025 10120 National Blvd. Los Angeles, CA 90034 T. 626-328-4346
CIVIL ENGINEER	**STRUCTURAL ENGINEER**
Pacific Coast Civil, INC. 30141 Agoura Road, Suite 200 Agoura Hills, CA 91301 T. 818-865-4168 F. 818-865-4168	Structural Design Plus, INC. 15053 Ventura Blvd., Suite 205 Sherman Oacks, CA 91403 T. 818-905-9871 F. 818-905-9873 E. Designplus@sbcglobal.net
SHORING ENGINEER	**LANDSCAPE ARCHITECT**
TBD	TBD
MEP ENGINEER	**GREEN BUILDING CONSULTANT**
MARS Engineering Group, INC 2271 Victory Blvd. West Hills, CA 91307 T. 818-593-8999 F. 818-230-7773	Structural Design Plus, INC. 15053 Ventura Blvd., Suite 205 Sherman Oacks, CA 91403 T. 818-905-9871 F. 818-905-9873 E. Designplus@sbcglobal.net

REQUIRED SPECIAL FEATURES:

THE FOLLOWING SPECIAL FEATURES SHALL BE INSTALLED AS CONDITION OF COMPLIANCE WITH THE TITLE 24 ENERGY REPORT:

- NON-STANDARD DUCT LOCATION (ANY LOCATION OTHER THAN ATTIC)
- NORTHWEST ENERGY EFFICIENCY ALLIANCE (NEEA) RATED HEAT PUMP WATER HEATER: SPECIFIC BRAND/MODEL, OR EQUIVALENT, MUST BE INSTALLED.

HERS FEATURE SUMMARY:

THE FOLLOWING FEATURES SHALL BE FIELD-VERIFIED BY A CERTIFIED HERS RATER IN ACCORDANCE WITH THE APPROVED ENERGY REPORT AND REGISTERED IN THE HERS REGISTRY (CF2R/CF3R):

- QUALITY INSULATION INSTALLATION (QII)
- INDOOR AIR QUALITY VENTILATION
- KITCHEN RANGE HOOD
- MINIMUM AIRFLOW
- VERIFIED SEER/SEER2
- FAN EFFICACY WATTS/CFM
- VERIFY HSPF
- VERIFIED HEAT PUMP RATED HEATING CAPACITY
- DUCT LEAKAGE TESTING
- DUCTS LOCATED ENTIRELY IN CONDITIONED SPACE CONFIRMED BY DUCT LEAKAGE TESTING

PLANNING / ZONING

SCOPE OF WORK

PROPOSED IN-KIND REPLACEMENT OF A TWO-STORY SINGLE FAMILY RESIDENCE OF 2,886 SQ. FT., WITH TWO ADDITIONS ON THE MAIN HOUSE, A 335 SQ. FT. ADDITION ON THE FIRST FLOOR AND A 950 SQ. FT. ADDITION ON THE SECOND FLOOR FOR A TOTAL OF 4,171 SQ. FT., (1,091) SQ. FT. 2ND FLOOR DECK, THE RELOCATION AND ADDITION OF 200 SQ. FT. TO THE 400 SQ. FT. DETACHED GARAGE FOR A TOTAL OF 640 SQ. FT., RETAINING / FOUNDATION WALL FOR SECOND FLOOR ADDITION, ONE SITE STAIR, THE ADDITION OF A 8'0"X22' POOL WITH (657) SQ. FT. PERMEABLE POOL DECK AND 5'X6' (30) SQ. FT. SUBTERRANEAN POOL EQUIPMENT ENCLOSURE WITH LID, OWTS REPLACEMENT, AND PROPOSED MINOR GRADING PER FIRE ACCESS REQUIREMENTS AT (E) DRIVEWAY. NO ADDITIONAL LANDSCAPING IS PROPOSED.

(N) SITE & FOUNDATION RETAINING WALLS (245.16 LINEAR FEET, MAX HT = 9'-6")

DISCRETIONARY REQUESTS:
SPR FOR HEIGHT OVER 18' (24').
SPR FOR THE BUILDING OF A FOUNDATION AND DRIVEWAY IMPROVEMENTS REQUIRED BY LACFD ON SLOPES BETWEEN 3:1 AND 2.5:1

PROJECT INFORMATION

LCP ZONING:	RR-2
LAND USE:	RURAL RESIDENTIAL
LOT AREA:	57,170 SF

BUILDING DATA

USE: SINGLE FAMILY RESIDENCE
FIRE SPRINKLERS REQ: YES, NFPA 13D (DEFERRED SUBMITTAL)
PROPOSED STORIES: 2
TYPE OF CONSTRUCTION: V-B
OCCUPANCY GROUP: R3/U
FIRE ZONE: VHFHSZ

DEFERRED SUBMITTAL

LANDSCAPE DESIGN / LANDSCAPE IRRIGATION
NFPA. 13D FIRE SPRINKLER SYSTEM
DEMOLITION
PEDESTRIAN GATE
PV SYSTEM TO BE UNDER A SEPARATE PERMIT AND SIZED PER THE ENERGY REPORT ON THIS PERMIT

APPLICABLE CODES

2022 CALIFORNIA BUILDING STANDARDS CODE INCLUDES:
PART 1, 2022 ADMINISTRATIVE CODE
PART 2, 2022 CALIFORNIA BUILDING CODE (CBC)
PART 2.5, 2022 CALIFORNIA RESIDENTIAL CODE (CRC)
PART 3, 2022 CALIFORNIA ELECTRICAL CODE (CEC)
PART 4, 2022 CALIFORNIA MECHANICAL CODE (CMC)
PART 5, 2022 CALIFORNIA PLUMBING CODE (CPC)
PART 6, 2022 CALIFORNIA ENERGY CODE (CEC)
PART 9, 2022 CALIFORNIA FIRE CODE (CFC)
PART 10, 2022 CALIFORNIA EXISTING BUILDING CODE
PART 11, 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBSC)

SITE SETBACKS:	REQUIRED	PROPOSED
FRONT YARD	65'-0" FROM ST. EASEMENT	152'-7½" FROM ST. EASEMENT
REAR YARD	60'-4" (15% OF LOT DEPTH 402'-4") FROM ST. EASEMENT	210'-½" FROM ST. EASEMENT
TOTAL SIDEYARD	.25 * 162'-4" = 40'-7"	.25 * 162'-4" = 40'-7"
WEST SIDEYARD	16'-3" (10% OF MIN. OF LOT WIDTH: 162'-4")	16'-4½" (10% OF MIN. OF LOT WIDTH: 162'-4")
EAST SIDEYARD	24'-4"	52'-1"
BUILDING HEIGHT:	T.O. RIDGE: 27'-6" ABOVE ADJACENT GRADE T.O. FLAT ROOF PARAPET: 24'-0" MAX	

LOT INFORMATION:

GROSS LOT AREA:	64,905.36 SQUARE FEET
EASEMENTS AREA:	7,085 SQUARE FEET
1:1 OR STEEPER GRADE:	625 SQUARE FEET
NET LOT AREA:	57,170 SQUARE FEET
LOT WIDTH:	162'-4"
LOT DEPTH:	402'-4" FROM ST. EASEMENTS

ALLOWABLE TOTAL DEVELOPMENT SQUARE FOOTAGE (TDSF):

21,780 x .177 = 3855 + 1000 =	4,855
43,560 - 21,780 = 21,780 x .10 =	2,178
57,170 - 43,560 = 13,610 x .05 =	681
TOTAL ALLOWABLE TDSF:	**7,714 SF**

LIKE-FOR-LIKE SQUARE FOOTAGE ANALYSIS PREVIOUS STRUCTURES:
(REFERENCE 3/12/1976 ASSESSOR RECORDS)

PREVIOUS MAIN HOUSE	2,624 SQUARE FEET
10% ADD. MAIN HOUSE	262 SQUARE FEET
SUBTOTAL	2,886 SQUARE FEET
DETACHED GARAGE	400 SQUARE FEET
10% ADD.GARAGE	40 SQUARE FEET
SUBTOTAL	440 SQUARE FEET
TOTAL	**3,326 SQUARE FEET**

TOTAL DEVELOPMENT SQUARE FOOTAGE (TDSF):

LIVEABLE MAIN HOUSE	2,886 SQUARE FEET
APR SF (+49%) MAIN HOUSE	1,285 SQUARE FEET
SUBTOTAL LIVEABLE MAIN HOUSE	4,171 SQUARE FEET
CARPORT MAIN HOUSE	681 SQUARE FEET
SUBTOTAL MAIN HOUSE	4,852 SQUARE FEET
DETACHED GARAGE	440 SQUARE FEET
APR SF (+49%) DETACHED GARAGE	200 SQUARE FEET
SUBTOTAL DETACHED GARAGE	640 SQUARE FEET
TOTAL DEVELOPMENT (TDSF)	**5,492 SQUARE FEET** **< 7,714 SQUARE FEET** **ALLOWABLE TDSF**

(SEE SHEET G.1)

AREA SUMMARY:	PRE-FIRE AS-BUILT	PVWF 22-017 (+10%)	PROPOSED APR (+49%)
LIVEABLE FIRST FLOOR	772 SF	1,111 SF	1,446 SF
LIVEABLE SECOND FLOOR	1,852 SF	1,775 SF	2,725 SF
SUBTOTAL LIVEABLE MAIN HOUSE	2,624 SF	2,886 SF	4,171 SF
DETACHED GARAGE	400 SF	440 SF	640 SF
TOTAL	**3,024 SF**	**3,326 SF**	**4,811 SF**

MAXIMUM IMPERMEABLE COVERAGE:

LOT AREA: 57,170 SF x 30% = 17,151 ALLOWABLE SQUARE FEET

IMPERMEABLE COVERAGE:	PVWF 22-017	PROPOSED DEVELOPMENT
PROPOSED MAIN STRUCTURE AND GARAGE FOOTPRINTS	3,326 SQUARE FEET	3,742 SQUARE FEET
PROPOSED WALKWAYS, LANDSCAPE STEPS + DRIVEWAY	6,475 SQUARE FEET	6,409 SQUARE FEET
PROPOSED UNCOVERED DECKS	1,090 SQUARE FEET	1,262 SQUARE FEET
PROPOSED POOL	240 SQUARE FEET	187 SQUARE FEET
TOTAL IMPERMEABLE COVERAGE	**11,131 SQUARE FEET**	**11,600 SQUARE FEET** **<17,151 SQUARE FEET** **ALLOWABLE**

(SEE SHEET G.2)

2/3's CALCULATION FOR MAIN HOUSE ONLY:

AREA BELOW 18' = 3,404 TDSF
AREA ABOVE 18' = 1,448 TDSF

2/3's CALCULATION = (3,404 SF x .67)
ALLOWED AREA OVER 18' = 2,280 SF
PROPOSED AREA OVER 18' = 1,448 SF < 2,280 SF ALLOWABLE

(SEE SHEET G.3)

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G.5	PV APPROVED + APR FLOOR PLANS
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EN2	ENERGY SHEETS (TITLE 24 COMPLIANCE)
EN3	ENERGY SHEETS (TITLE 24 COMPLIANCE)
EN4	ENERGY SHEETS (TITLE 24 COMPLIANCE)
E1	ENERGY SHEETS REC ROOM (TITLE 24 COMPLIANCE)
E2	ENERGY SHEETS REC ROOM (TITLE 24 COMPLIANCE)
E3	ENERGY SHEETS REC ROOM (TITLE 24 COMPLIANCE)
E4	ENERGY SHEETS REC ROOM (TITLE 24 COMPLIANCE)

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1	FIRE REBUILD SLOPE ANALYSIS (30% SLOPE DENSITY)

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A1.1 RCP	HOUSE FIRST FLOOR REFL. CEILING PLAN
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S-10	STRUCTURAL DETAILS
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P-3.0	ENLARGE SITE PLAN
P-4.0	SITE PLAN LOAD CALC.

ANDROMEDA HOUSE
WOOLSEY FIRE REBUILD

30051 ANDROMEDA LANE, MALIBU, CA 90265

DRAWN: SV

DATE: 03/16/2026

ISSUED FOR

DATE	REMARKS
09/24/2025	PLAN CHECK 1
01/27/2026	PLAN CHECK 2
03/03/2026	PLAN CHECK 3
03/16/2026	PLAN CHECK 4

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Worth Capital Holdings 24 LLC, Owner
T: 424-359-9630
E: Holzerpartner@gmail.com

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JENNIFER R. MARMON
No. C32219
08/31/2027
RENEWAL DATE
STATE OF CALIFORNIA

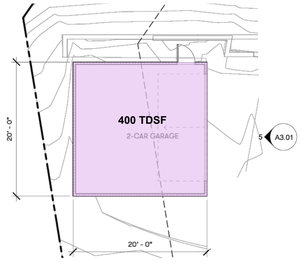
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CONSTRUCTION DOCUMENTS 100%

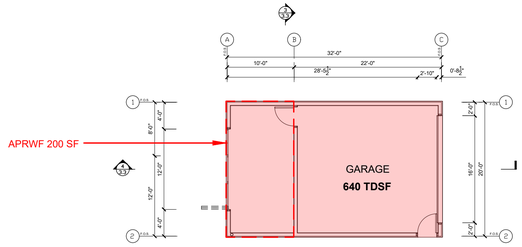
COVER SHEET

G.0



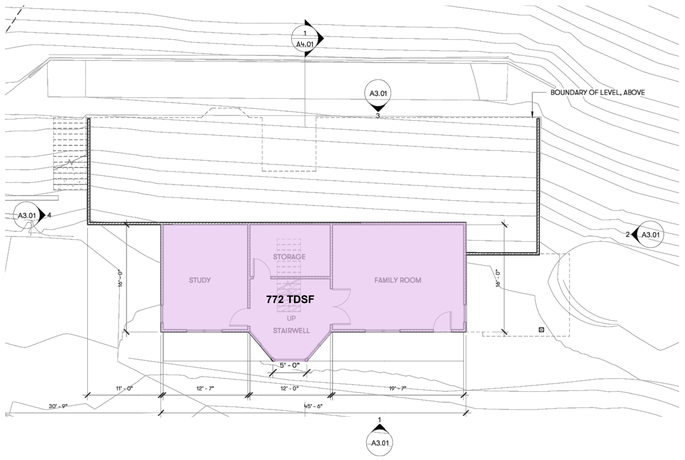
PRE-FIRE
FIRST FLOOR GARAGE, TDSF 1

SCALE 3/32" = 1'-0"



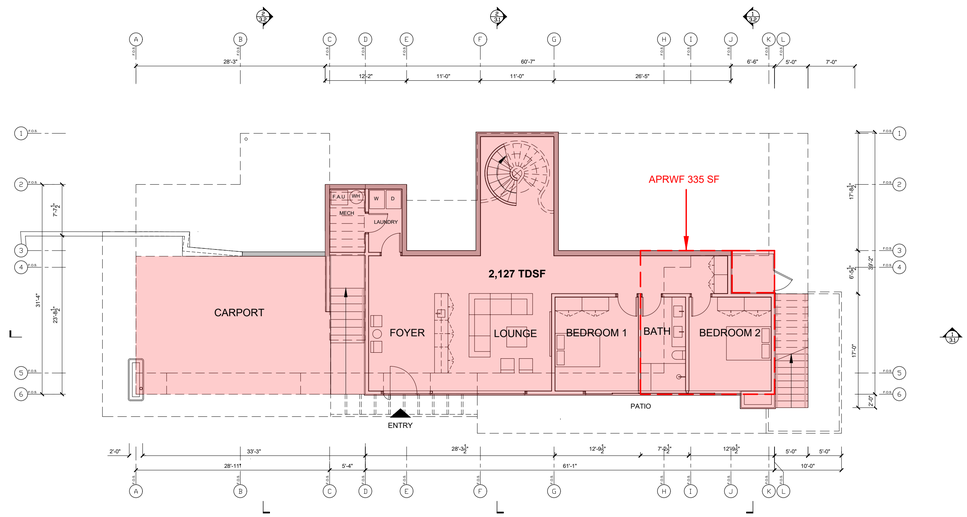
PROPOSED APR
FIRST FLOOR GARAGE, TDSF 1

SCALE 3/32" = 1'-0"



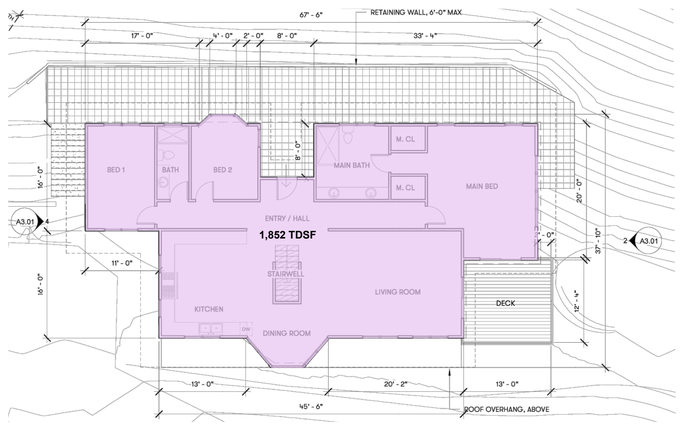
PRE-FIRE
FIRST FLOOR HOUSE, TDSF 2

SCALE 3/32" = 1'-0"



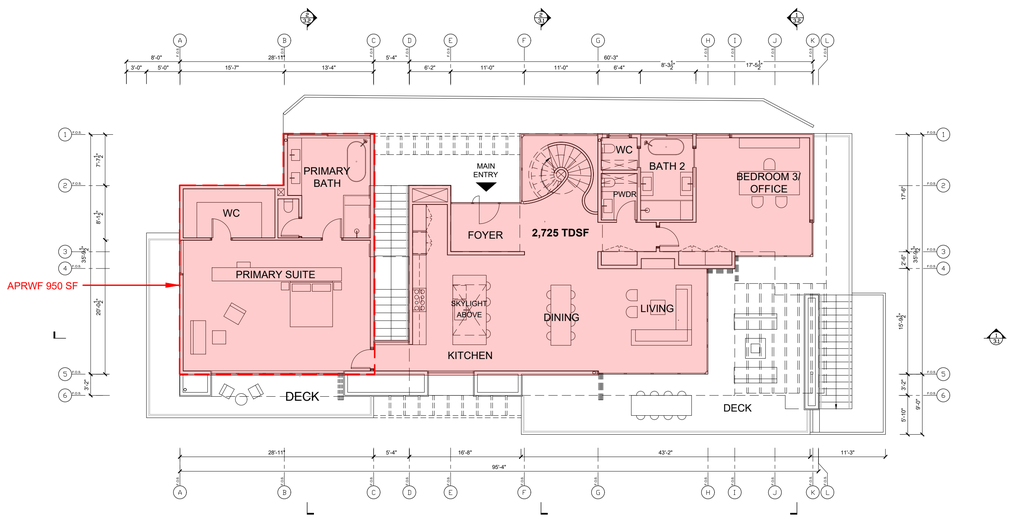
PROPOSED APR
FIRST FLOOR HOUSE, TDSF 2

SCALE 3/32" = 1'-0"



PRE-FIRE
SECOND FLOOR HOUSE, TDSF 3

SCALE 3/32" = 1'-0"



PROPOSED APR
SECOND FLOOR HOUSE, TDSF 3

SCALE 3/32" = 1'-0"

LEGEND

- PROPOSED APR TDSF
- PRE-FIRE TDSF

ALLOWABLE TOTAL DEVELOPMENT SQUARE FOOTAGE (TDSF):

21,780 x .177 = 3855 + 1000 =	4,855
43,560 - 21,780 = 21,780 x .10 =	2,178
57,170 - 43,560 = 13,610 x .05 =	681
TOTAL ALLOWABLE TDSF:	**7,714 SF**

TOTAL DEVELOPMENT SQUARE FOOTAGE (TDSF):	**PRE-FIRE**	**PROPOSED APR**
LIVEABLE MAIN HOUSE APR SF (+49%) MAIN HOUSE	2,624 SF	2,886 SF 1,285 SF
SUBTOTAL LIVEABLE MAIN HOUSE CARPORT MAIN HOUSE	2,624 SF	4,171 SF 681 SF
SUBTOTAL MAIN HOUSE	2,624 SF	4,852 SF
DETACHED GARAGE APR SF (+49%) DETACHED GARAGE	400 SF	440 SF 200 SF
SUBTOTAL DETACHED GARAGE	3,024 SF	640 SF
TOTAL DEVELOPMENT (TDSF)	**3,024 SQUARE FEET**	**5,492 SQUARE FEET < 7,714 SQUARE FEET ALLOWABLE TDSF**

30051 ANDROMEDA LANE, MALIBU, CA 90265

ANDROMEDA HOUSE
WOOLSEY FIRE REBUILD

DRAWN: SV

DATE: 03/03/2026

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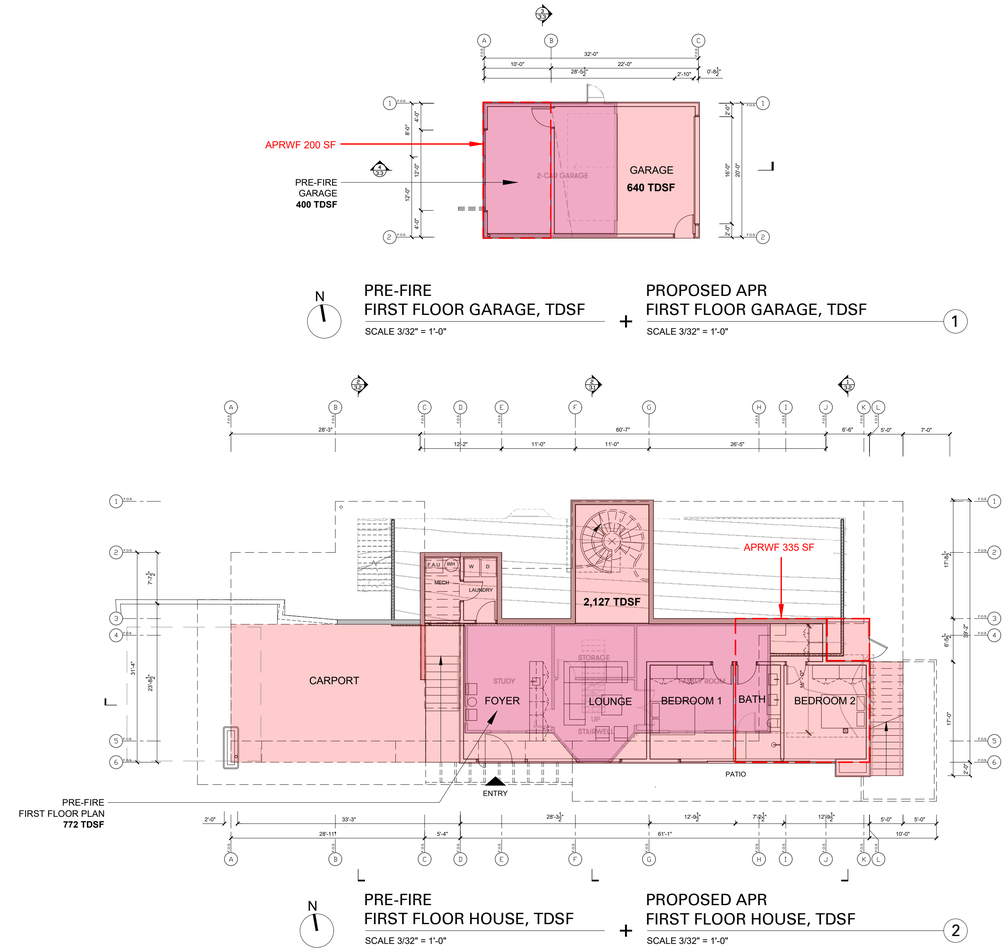
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CONSTRUCTION DOCUMENTS 100%

TDSF CALCULATION

G.1A



N

PRE-FIRE
FIRST FLOOR GARAGE, TDSF

SCALE 3/32" = 1'-0"

+

PROPOSED APR
FIRST FLOOR GARAGE, TDSF

SCALE 3/32" = 1'-0"

1

N

PRE-FIRE
FIRST FLOOR HOUSE, TDSF

SCALE 3/32" = 1'-0"

+

PROPOSED APR
FIRST FLOOR HOUSE, TDSF

SCALE 3/32" = 1'-0"

2

N

PRE-FIRE
SECOND FLOOR HOUSE, TDSF

SCALE 3/32" = 1'-0"

+

PROPOSED APR
SECOND FLOOR HOUSE, TDSF

SCALE 3/32" = 1'-0"

3

LEGEND

PROPOSED APR
TDSF

PRE-FIRE
TDSF

ALLOWABLE TOTAL DEVELOPMENT SQUARE FOOTAGE (TDSF):

21,780 x .177 = 3855 + 1000 =	4,855
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WOOLSEY FIRE REBUILD

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RENEWAL DATE
STATE OF CALIFORNIA

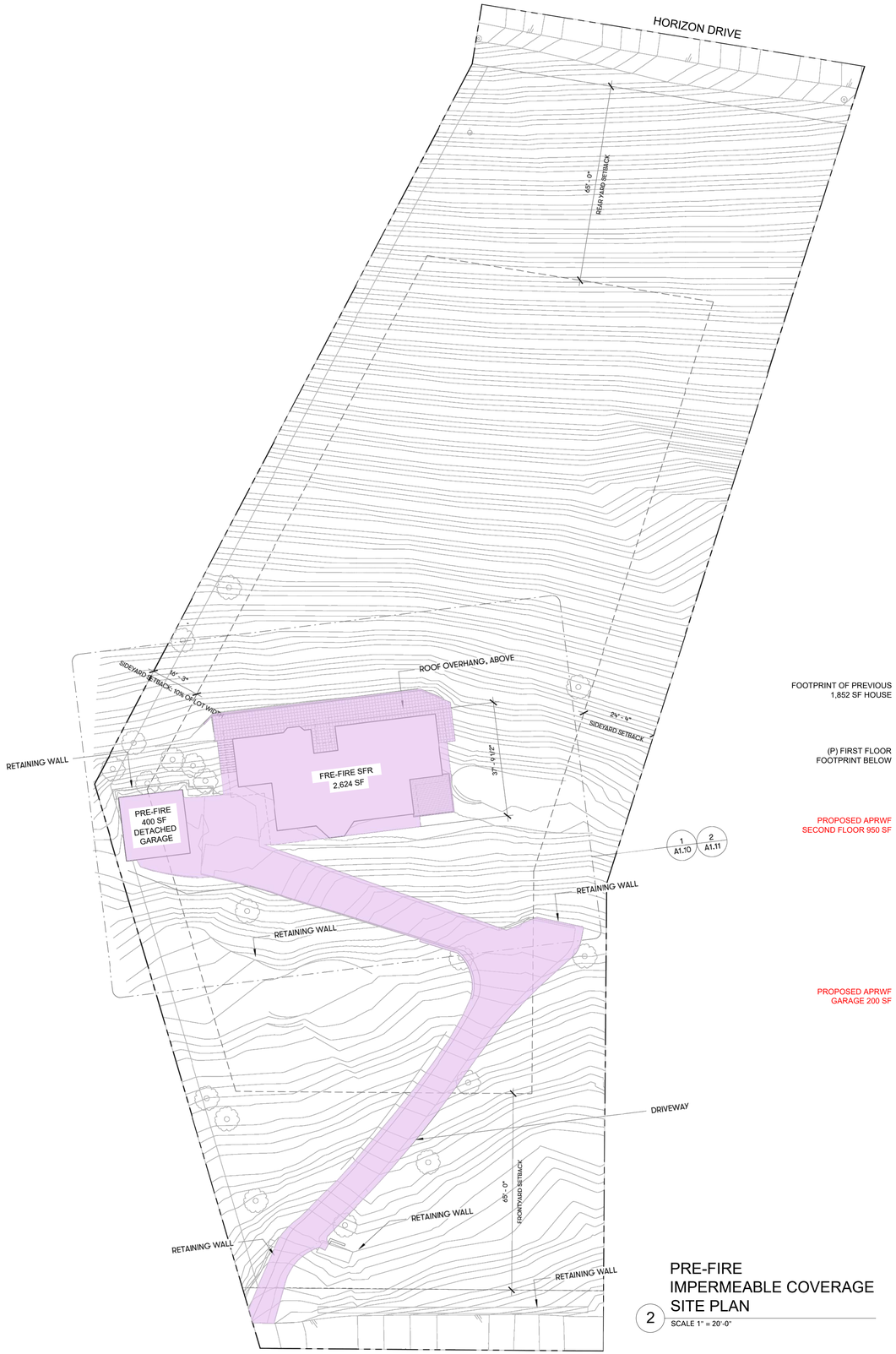
PAR

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INFO@P-AR.COM

CONSTRUCTION
DOCUMENTS 100%

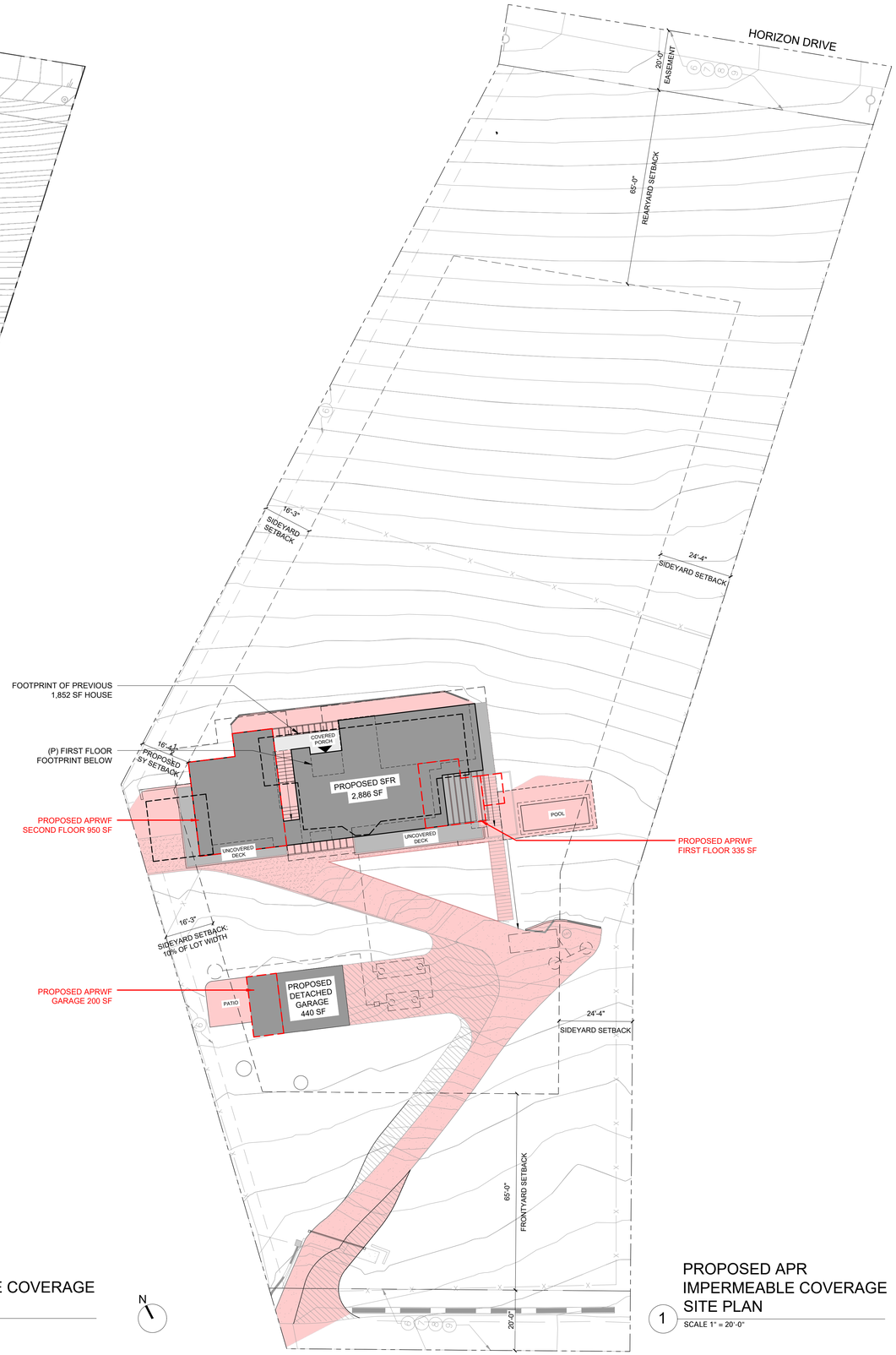
TDSF
CALCULATION

G.1B



PRE-FIRE
IMPERMEABLE COVERAGE
SITE PLAN

2 SCALE 1" = 20'-0"



PROPOSED APR
IMPERMEABLE COVERAGE
SITE PLAN

1 SCALE 1" = 20'-0"

N

LEGEND

- PROPOSED APR IMPERMEABLE
- PRE-FIRE IMPERMEABLE

MAXIMUM IMPERMEABLE COVERAGE:
LOT AREA: 57,170 SF x 30% = 17,151 ALLOWABLE SQUARE FEET

IMPERMEABLE COVERAGE:	PRE-FIRE	PROPOSED DEVELOPMENT
PROPOSED MAIN STRUCTURE AND GARAGE FOOTPRINTS	3,085 SF	3,898 SF
PROPOSED WALKWAYS, LANDSCAPE STEPS + DRIVEWAY	3,874 SF	6,253 SF
PROPOSED UNCOVERED DECKS	631 SF	1,262 SF
PROPOSED POOL		187 SF
TOTAL IMPERMEABLE COVERAGE	**7,590 SF**	**11,600 SF <17,151 SF ALLOWABLE**

ANDROMEDA HOUSE
WOOLSEY FIRE REBUILD

30051 ANDROMEDA LANE, MALIBU, CA 90265

SCALE: 1" = 20'-0"

DRAWN: SV

DATE: 03/03/2026

ISSUED FOR

DATE	REMARKS
09/24/2025	PLAN CHECK 1
01/27/2026	PLAN CHECK 2
03/03/2026	PLAN CHECK 3

OWNER:

Daniel Donovan, Owner's Representative
T: 701-870-0989
E: daniel.patrick.donovan@gmail.com

Worth Capital Holdings 24 LLC, Owner
T: 424-359-9630
E: Holzerpartner@gmail.com

LEGAL INFO:

APN: 4469004017
TRACT:
BLOCK:
LOT: 5
MAP:

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LICENSED ARCHITECT
JENNIFER R. MARMON
No. C32219
08/31/2027
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STATE OF CALIFORNIA

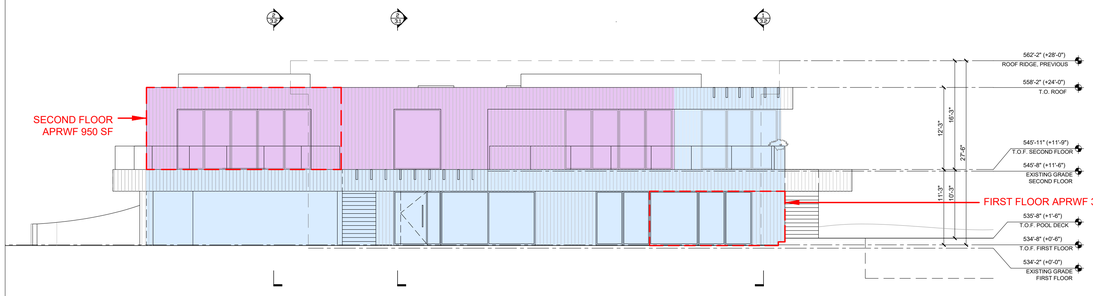
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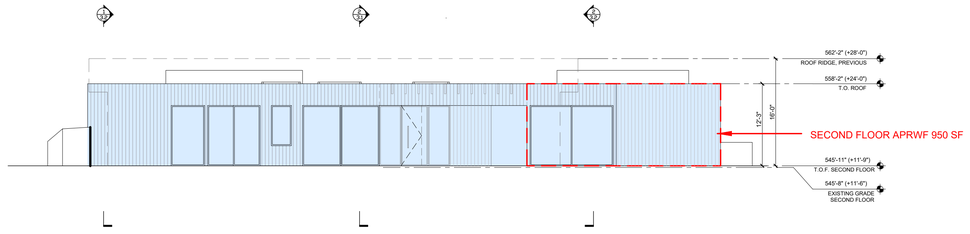
IMPERMEABLE
CALCULATION

G.2



SOUTH ELEVATION 1

SCALE 3/32" = 1'-0"

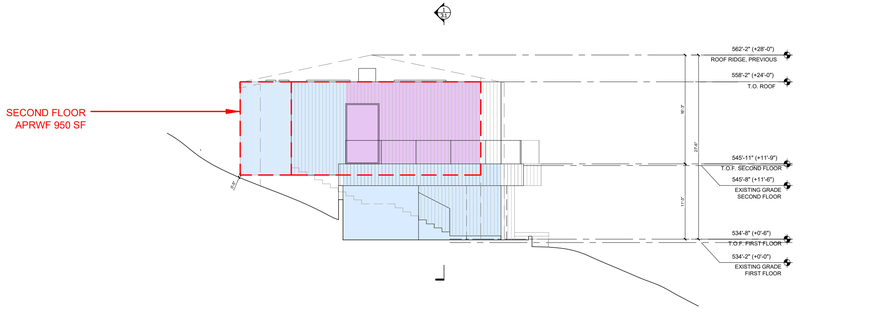


NORTH ELEVATION 2

SCALE 3/32" = 1'-0"

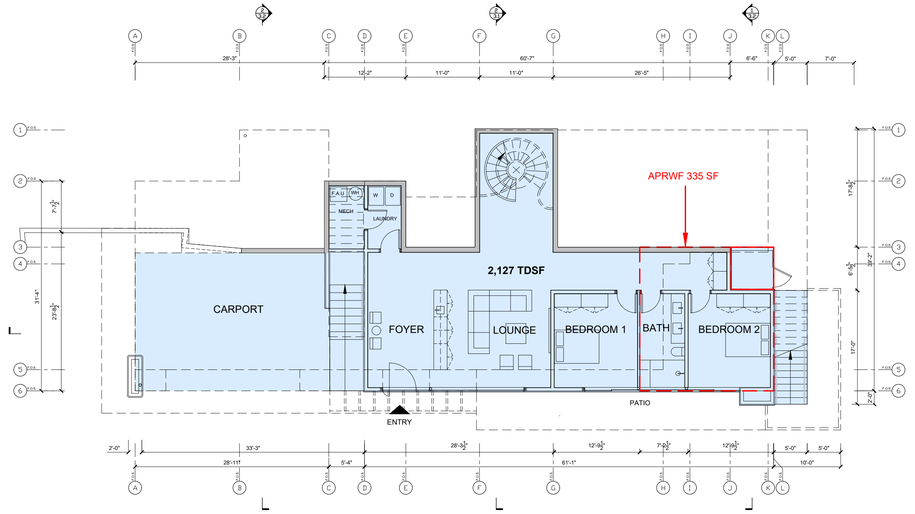
EAST ELEVATION 3

SCALE 3/32" = 1'-0"



WEST ELEVATION 4

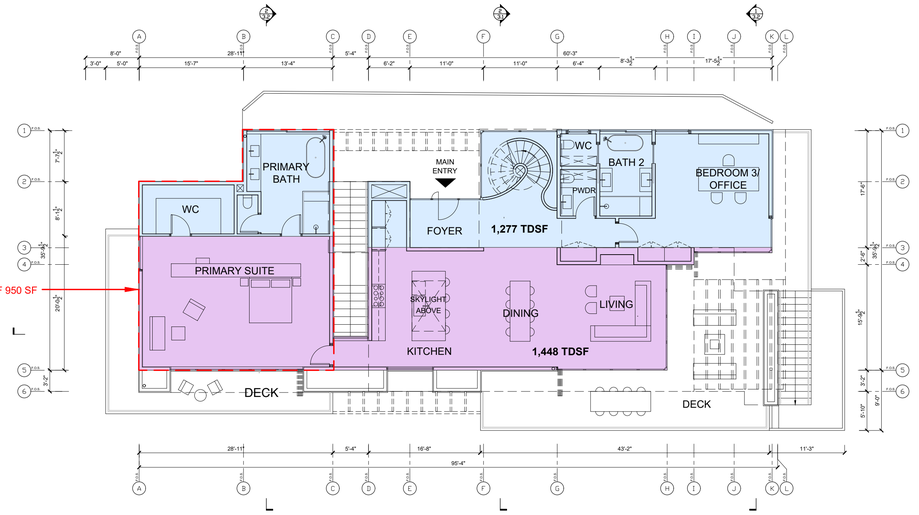
SCALE 3/32" = 1'-0"



N

FIRST FLOOR PLAN 2/3's EXHIBIT 1

SCALE 3/32" = 1'-0"



N

SECOND FLOOR PLAN 2/3's EXHIBIT 2

SCALE 3/32" = 1'-0"

LEGEND

AREA BELOW 18'
FIRST FLOOR 2,127 TDSF +
SECOND FLOOR 1,277 TDSF = 3,404 TDSF

AREA ABOVE 18'
SECOND FLOOR = 1,448 TDSF

2/3's CALCULATION FOR MAIN HOUSE ONLY:

AREA BELOW 18' = 3,404 TDSF
AREA ABOVE 18' = 1,448 TDSF

2/3's CALCULATION = (3,404 SF x .67)
ALLOWED AREA OVER 18' = 2,280 SF
PROPOSED AREA OVER 18' =
1,448 SF < 2,280 SF

ANDROMEDA HOUSE
WOOLSEY FIRE REBUILD

30051 ANDROMEDA LANE, MALIBU, CA 90265

DRAWN: SV

DATE: 03/03/2026

ISSUED FOR

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08/31/2027
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STATE OF CALIFORNIA

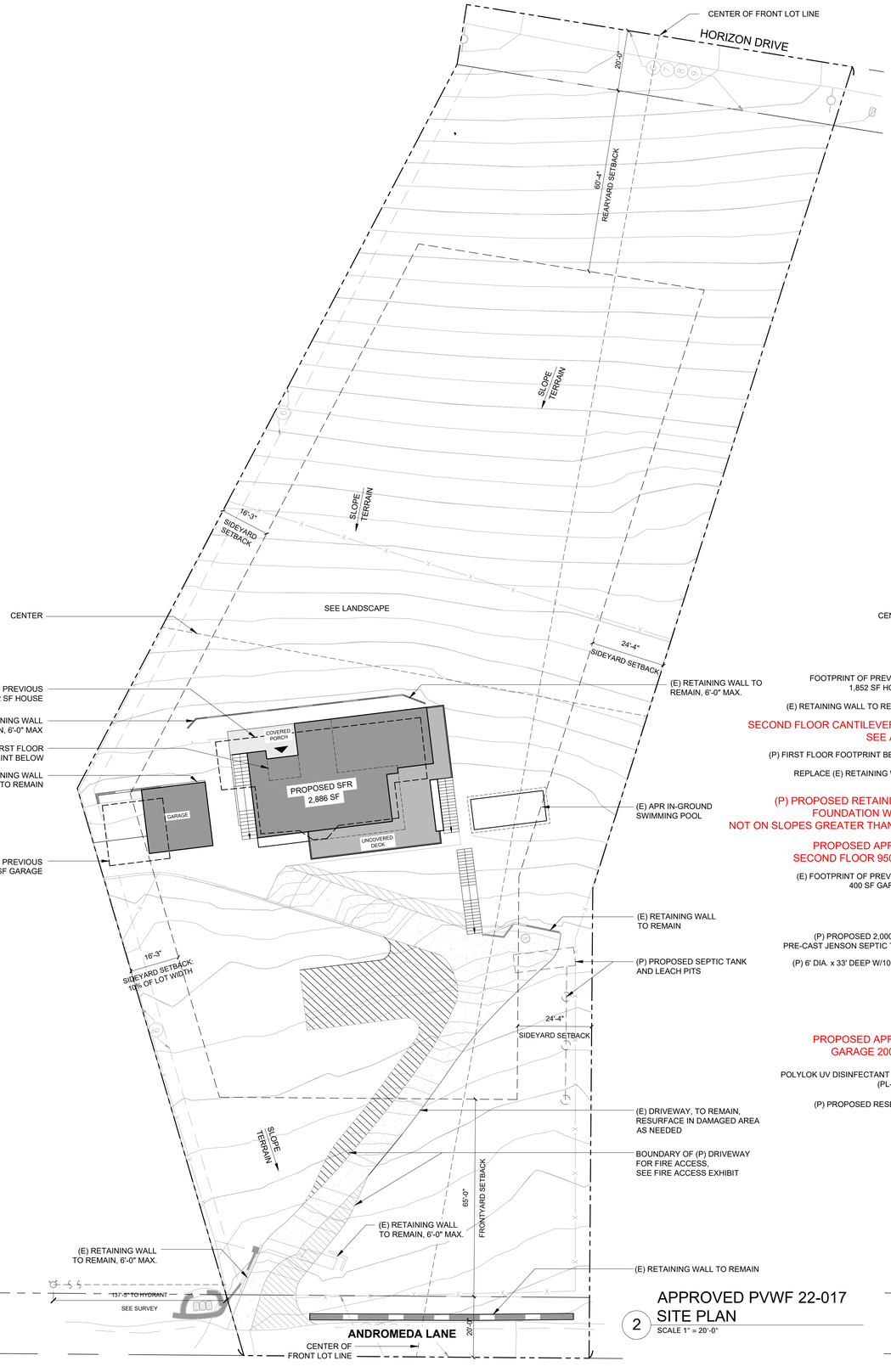
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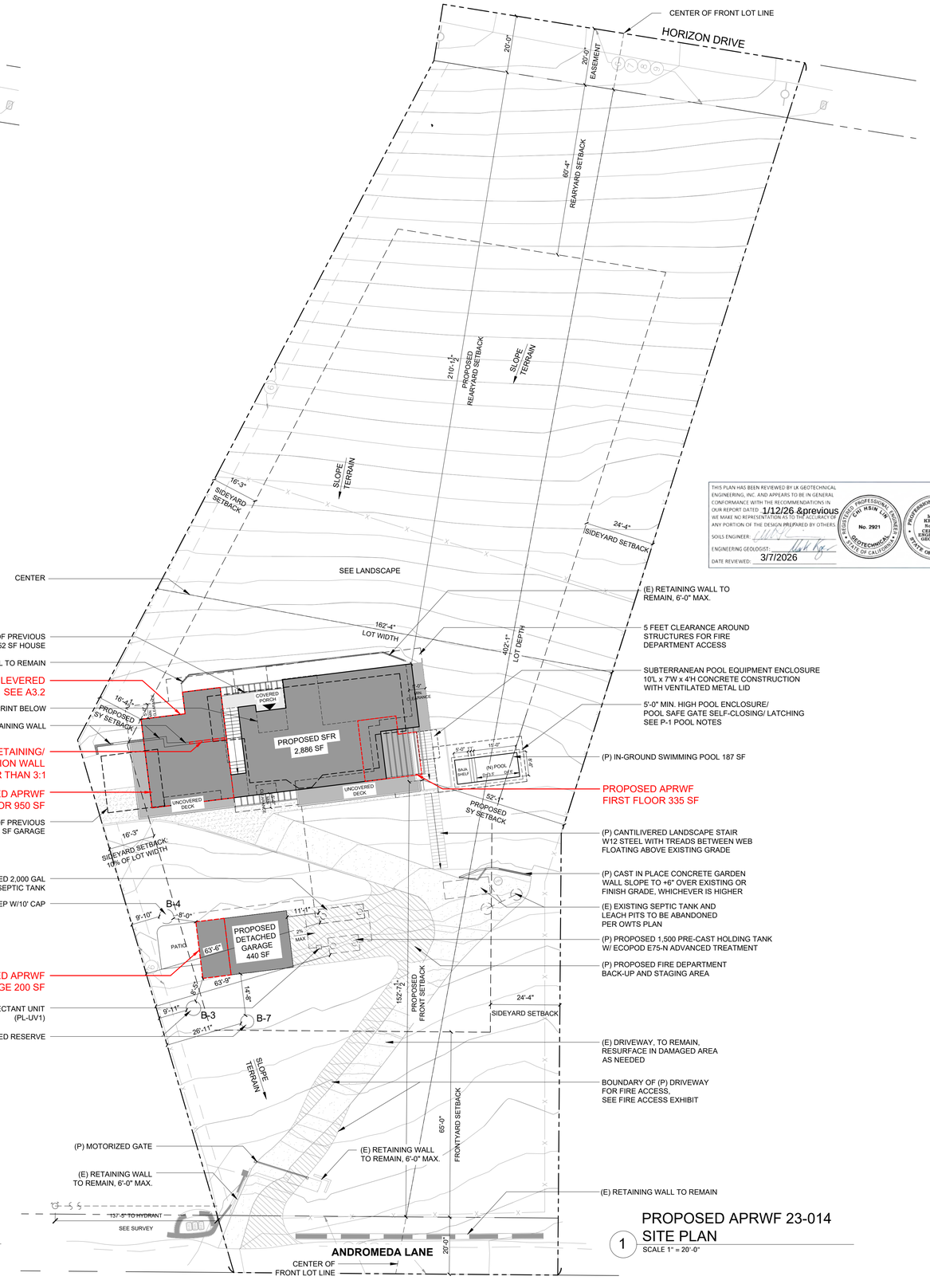
APR 2/3's CALCULATION

G.3



APPROVED PVWF 22-017 SITE PLAN

2 SCALE 1" = 20'-0"



PROPOSED APRWF 23-014 SITE PLAN

1 SCALE 1" = 20'-0"

N

THIS PLAN HAS BEEN REVIEWED BY LK GEOTECHNICAL ENGINEERING, INC. AND APPEARS TO BE IN GENERAL CONFORMANCE WITH THE RECOMMENDATIONS IN OUR REPORT DATED 1/12/26 &previous. WE MAKE NO REPRESENTATION AS TO THE ACCURACY OF ANY PORTION OF THE DESIGN PREPARED BY OTHERS.

REGISTERED PROFESSIONAL ENGINEER — CHI HSIN LIN — No. 2921 — GEOTECHNICAL — STATE OF CALIFORNIA

PROFESSIONAL GEOLOGIST — MARK KRUGER No. 2345 CERTIFIED ENGINEERING GEOLOGIST — STATE OF CALIFORNIA

SOILS ENGINEER: _____

ENGINEERING GEOLOGIST: _____

DATE REVIEWED: 3/7/2026

LICENSED ARCHITECT — JENNIFER R. MARMON — No. C30219 — 08/31/2027 RENEWAL DATE — STATE OF CALIFORNIA

ANDROMEDA HOUSE
WOOLSEY FIRE REBUILD

30051 ANDROMEDA LANE, MALIBU, CA 90265

SCALE: 1" = 20'-0"

DRAWN: SV

DATE: 03/03/2026

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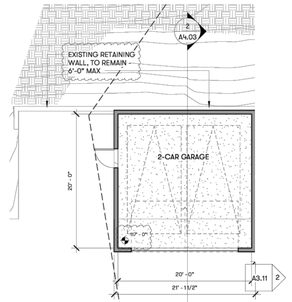
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PV + APR SITE PLANS

G.4

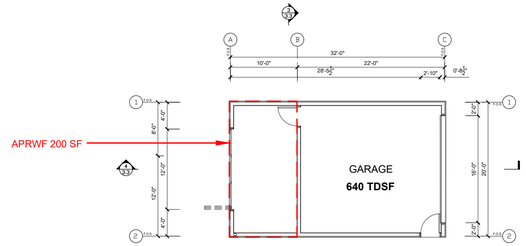


N

APPROVED PVWF 22-017
FIRST FLOOR GARAGE

SCALE 3/32" = 1'-0"

1

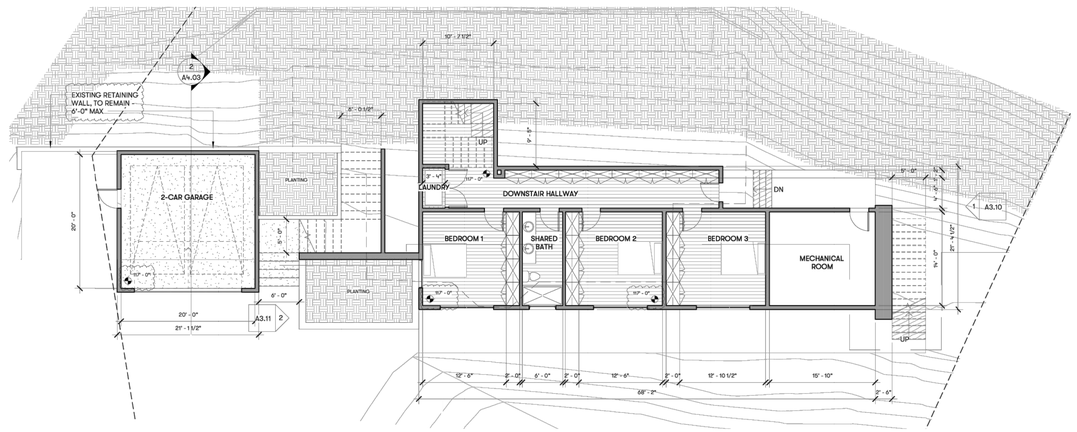


N

PROPOSED APRWF 23-014
FIRST FLOOR GARAGE

SCALE 3/32" = 1'-0"

1

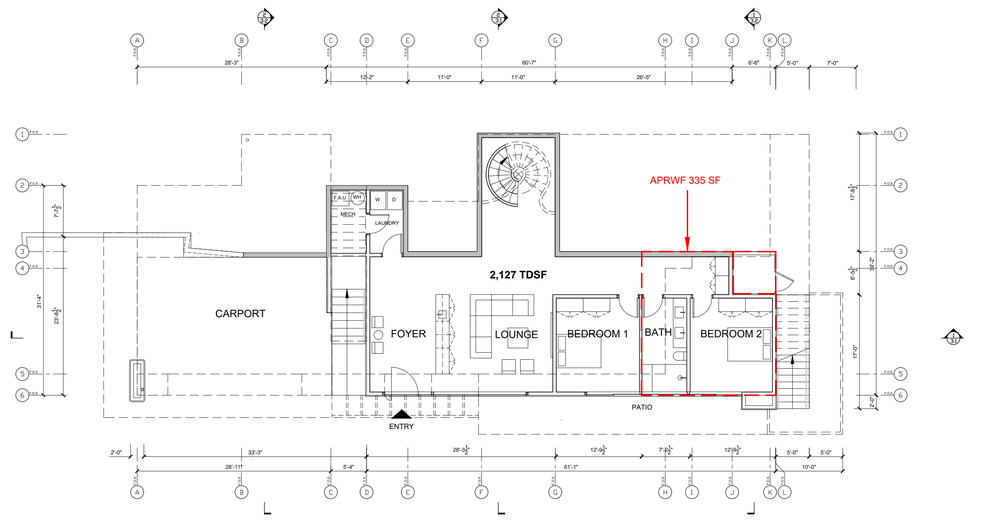


N

APPROVED PVWF 22-017
FIRST FLOOR HOUSE

SCALE 3/32" = 1'-0"

2

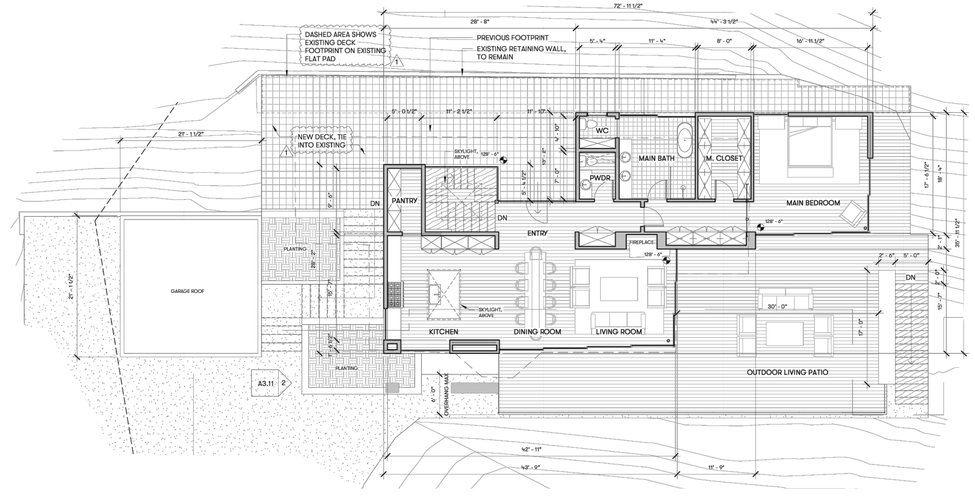


N

PROPOSED APRWF 23-014
FIRST FLOOR HOUSE, TDSF

SCALE 3/32" = 1'-0"

2

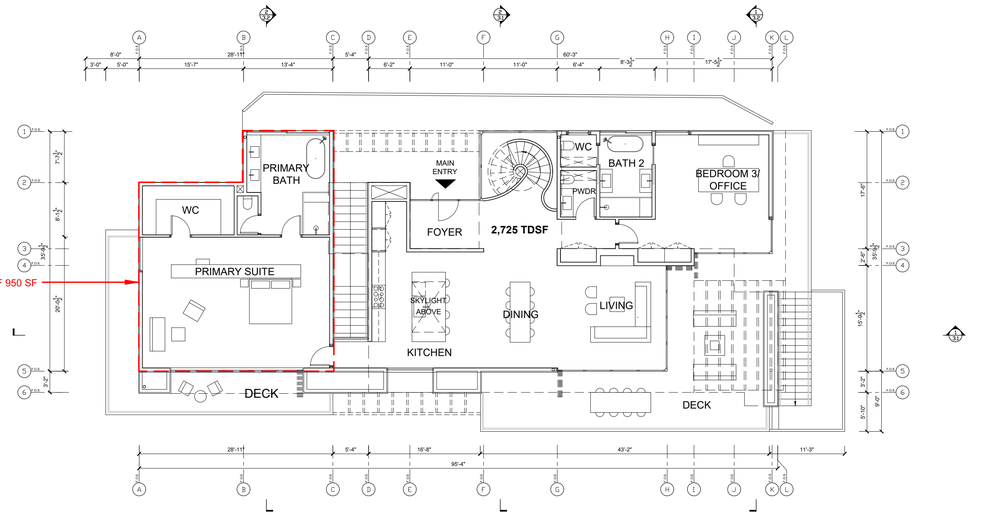


N

APPROVED PVWF 22-017
SECOND FLOOR HOUSE

SCALE 3/32" = 1'-0"

3



N

PROPOSED APRWF 23-014
SECOND FLOOR HOUSE

SCALE 3/32" = 1'-0"

3

30051 ANDROMEDA LANE, MALIBU, CA 90265

ANDROMEDA HOUSE
WOOLSEY FIRE REBUILD

DRAWN: SV

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CONSTRUCTION DOCUMENTS 100%

PV + APR
FLOOR PLANS

G.5

RESIDENTIAL MANDATORY MEASURES

Documentation

1) Certificate of compliance

Certificate of compliance. for all buildings, the certificate of compliance described in section 10-103 shall be signed by the person who is eligible under division 3 of the business and professions code to accept responsibility for the building design (responsible person); and submitted in accordance with sections 10-103(a)1 and 10-103(a)2 to certify conformance with part 6. if more than one person has responsibility for the building design, each person shall sign the certificate of compliance document(s) applicable to that portion of the design for which the person is responsible. alternatively, the person with chief responsibility for the building design shall prepare and sign the certificate of compliance document(s) for the entire building design

2) Application for a building permit

Each application for a building permit subject to part 6 shall contain at least one copy of the documents specified in sections 10-103(a)2a, 10-103(a)2b, and 10-103(a)2c.

a) for all newly constructed buildings, additions, alterations, or repairs regulated by part 6 the applicant shall submit the applicable certificate(s) of compliance to the enforcement agency for approval. the certificate(s) shall conform to the requirements of section 10-103(a)1, and shall be approved by the local enforcement agency, in accordance with all applicable requirements of section 10-103(d), by stamp or authorized signature prior to issuance of a building permit. a copy of the certificate(s) of compliance shall be included with the documentation the builder provides to the building owner at occupancy as specified in section 10-103(b).

b) When the enforcement agency requires building design plans and specifications to be submitted with the application for a building permit, the plans shall conform to the specifications for the features, materials, components, and manufactured devices identified on the certificate(s) of compliance, and shall conform to all other applicable requirements of part 6. plans and specifications shall be submitted to the enforcement agency for any other feature, material, component, or manufactured device that part 6 requires be indicated on the building design plans and specifications. plans and specifications submitted with each application for a building permit for nonresidential buildings, high-rise residential buildings and hotels and motels shall provide acceptance requirements for code compliance of each feature, material, component or manufactured device when acceptance requirements are required under part 6. plans and specifications for nonresidential buildings, high-rise residential buildings and hotels and motels shall require, and indicate with a prominent note on the plans, that within 90 days after the enforcement agency issues a permanent final occupancy permit, record drawings be provided to the building owner.

c) the enforcement agency shall have the authority to require submittal of any supportive documentation that was used to generate the certificate(s) of compliance, including but not limited to the electronic input file for the compliance software tool that was used to generate performance method certificate(s) of compliance; or any other supportive documentation that is necessary to demonstrate that the building design conforms to the requirements of part 6.

3) Installation certificate

a) for all buildings, the person in charge of the construction or installation, who is eligible under division 3 of the business and professions code to accept responsibility for the construction or installation of features, materials, components, or manufactured devices regulated by part 6 or the appliance efficiency regulations (responsible person) shall sign and submit certificate of installation documentation as specified in section 10-103(a)3 to certify conformance with part 6.

These certificates shall:

i. identify the features, materials, components, manufactured devices, and system performance diagnostic results required to demonstrate compliance with part 6 and the appliance efficiency regulations..

ii. Include a statement indicating that the installed devices conform to the appliance standards and Part 6 and the requirements for such devices given in the plans

iii. State the number of the building permit under which the construction or installation was performed.

iv. Fenestration products, other than products which are removed and reinstalled, shall be certified for overall U-values and overall SHGC, and shall have a temporary label which lists certified U-value and SHGC, and certified that applicable air infiltration requirements are met.

4) Insulation certificate

After installing wall, ceiling, or floor insulation, the installer shall make available to the enforcement agency or post in a conspicuous location in the building a certificate signed by the installer stating that the installation is consistent with the plans and specifications described in Section 10-103 (a) 2 and for which the building permit was issued and conforms with the requirements of Part 6. The certificate shall also state the manufacturer's name and material identification, the installed R-value, and (in applications of loose fill insulation) the minimum installed weight per square foot consistent with the manufacturer's labeled installed design density for the desired R-value.

All insulating material shall be installed in compliance with the flame spread rating smoke density requirement of section 707 of the ubc. EXCEPTION: Enforcing agencies may exempt nonresidential buildings that have no more than 1,000 square feet of conditioned floor area in the entire building and an occupant load of 49 persons or less from the documentation requirements of Section 10-103(a), provided a statement of compliance with Part 6 is submitted and signed by a licensed engineer or the licensed architect with chief responsibility for the design.

Operating and Maintenance Information to be provided by Builder

1) Operating information. The builder shall provide the building owner at occupancy the appropriate Certificate(s) of Compliance and a list of the features, materials, components, and mechanical devices installed in the building and instructions on how to operate them efficiently. The instructions shall be consistent with specifications set forth by the executive director. For residential buildings, such information shall, at a minimum, include information indicated on forms Certificate of Compliance (CF-1R), Mandatory Measures (MF-1R), Installation Certificate (CF-6R), Insulation Certificate (IC-1), and a manual which provides all information specified in this Section 10-103 (b). The Home Energy Manual (P400-92-031, July 1992) may be used to meet the requirement for providing this manual. For nonresidential buildings, such information shall, at a minimum, include information required by the Certificates of Compliance, forms ENV-1, MECH-1 and LTG-1, an Installation Certificate and an Insulation Certificate. For dwelling units, buildings or tenant spaces which are not individually owned and operated, or are centrally operated, such information shall be provided to the person(s) responsible for operating the feature, material, component or mechanical device installed in the building.

2) Maintenance information. The builder shall provide to the building owner at occupancy maintenance information for all features, materials, components, and manufactured devices that require routine maintenance for efficient operation. Required routine maintenance actions shall be clearly stated and incorporated on a readily accessible label. The label may be limited to identifying, by title and/or publication number, the operation and maintenance manual for that particular model and type of feature, material, component, or manufactured device.n For dwelling units, buildings or tenant spaces which are not individually owned and operated, or are centrally operated, such information shall be provided to the person(s) responsible for maintaining the feature, material, component, or mechanical device installed in the building.

3) Ventilation information. For nonresidential buildings, the builder shall provide the building owner at occupancy a description of the quantities of outdoor and re-circulated air that the ventilation systems are designed to provide to each area. For buildings or tenant spaces which are not individually owned and operated, or are centrally operated, such information shall be provided to the person(s) responsible for operating and maintaining the feature, material, component, or mechanical device installed in the building.

Equipment Information to be provided by Manufacturer or Supplier

1) The manufacturer or supplier of any manufactured devise shall, upon request, provide to building designer and installers information about the device. The information shall include the efficiency (and other charateristics regulated by Part6).
2) All system, equipment and/or building components shall comply with the applicable manufacturer provisions and installation provisions of Title 24, Part 6, Chapter 2, Section 111 through 119.
3) All appliances for which a California Standard has been established in the Appliance Efficiency Regulations shall be certified by the manufacturer as compliant with the applicable Standard.
4) Service water-heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use as listed in Table 2, Chapter 49, of the ASHRAE Handbook and HVAC application handbook.
5) Circulating service water-heating systems shall have a control capable of automatically turning off the circulating pump when hot water is not required.
6) Service water-heating systems that have a total capacity greater than 167,000 Btu/hr, shall have separate remote heaters, heat exchangers, or boosters to supply higher temperature at outlets that require higher than service water temperatures as listed in the 1995 ASHRAE Handbook.
7) Controls for service water-heating systems shall limit the outlet temperature at public lavatories to 110°F.
8) Unfired service water-heater storage tanks and backup tanks for solar water-heating system shall have:
   a. External insulation with combined R-value of at least R-12, or
   b. Internal and external insulation with a combined R-value of at least R-16, or
   c. The heat loss of the tank surface, based on an 80°F water-air temperature difference shall be less than 6.5 Btu/hr per square foot.
9) Insulation shall be provided or water heaters as follows:
   a. Storage gas water heaters with an energy factor <0.58 shall be externally wrapped with insulation having an insulated thermal resistance of R-12 or greater.
   b. Unfired hot water tanks, such as storage tanks and backup storage tanks for solar water-heating system, shall externally wrapped with insulation having an installed thermal resistance of R-12 or greater or have internal insulation of at least R-16 and label on the exterior of the tank showing the insulation R-value.
   c. Piping, whether burried or unburried, for recirculating sections of domestic hot water systems, piping from the heating source to the storage tank for an indirect-fired domestic water-heating system and the first five feet of hot and cold water pipes from the storage tank for noncirculating systems and cooling systems shall be thermal insulated as specified an sub section A&B.
   d. Solar water-heating systems and/or collectors shall be certified by the Solar Rating and Certification Corporation.
10) Space conditioning equipment shall meet the efficiency standards specified in Title 24, Part 6, Chapter 2, Section 112
11) Pilot lights shall be prohibited for:
   a. Fan type central furnaces
   c. Pool heaters
   d. Spa heaters
   Except for household cooking appliances without an electrical supply voltage connection and in which each pilot consumes less than 150 Btu/hr.
12) Insulation shall be certified by the manufacturer as compliant with the California Quality Standards for Insulating Material, Title 24, Par 12, Chapter 12 & 13 CCR.
13) Urea formaldehyde foam insulation may only be used in exterior side walls,and requires a four-mil-thick plastic Polyethylene vapor barrier between the urea formaldehyde foam insulaton and the interior space.
14) The opaque portions of framed demising walls shall have insulation with an installed R-value of at least R-13 between framing members.
15) The minimum installed weight per square foot of any loose-fill insulation shall conform with the insulation manufacturer's labeled R-value.

Mandatory Requirements for Fenestration Products and Exterior Doors

1) Certification of Fenestration Products and Exterior Doors. Any fenestration product and exterior door, other than field-fabricated fenestration products and field-fabricated exterior doors, may be installed only if the manufacturer has certified to the commission, or if an independent certifying organization approved by the commission has certified, that the product complies with all of the applicable requirements of this subsection. Doors and windows between conditioned and unconditioned spaces shall be fully weather-stripped (including doors between residence and garage). The openings in the exterior envelope of the building shall be caulked or otherwise sealed to limit infiltration:
a) Exterior joints around window and door frames, between wall sole plates and floors, and between exterior wall panels;
b) Openings for plumbing/electrical/gas lines in walls, ceilings and floors;
c) Openings in the attic, such as the point where ceilings meet masonry fireplaces. Wrap storage type water heaters and storage and backup tanks for solar water heater systems with minimum R-12 insulation exterior, and R-16 for interior. Insulate piping in unconditioned space leading to and from water heaters with minimum R-4 insulation for a distance of 5 feet from the water heater.
d) Air leakage. Manufactured fenestration products and exterior doors shall have air infiltration rates not exceeding 0.3 cfm/ft² of window area, 0.3 cfm/ft² of door area for residential doors, 0.3 cfm/ft² of door area for nonresidential single doors (swinging and sliding), and 1.0 cfm/ft² for nonresidential double doors (swinging), when tested according to NFRC-400-95 or ASTM E283-91 at a pressure differential of 75 Pascal's or 1.57 pounds/ft², incorporated herein by reference.
e) U-factor and SHGC. Fenestration products shall:
   i. Be certified for overall U-factors as rated in accordance with the National Fenestration Rating Council's NFRC 100 (1997) and be certified for overall SHGC, as rated in accordance with the National Fenestration Rating Council's NFRC 200 (1995), incorporated herein by reference, or such values shall be certified in accordance with Table 1-D and Table 1-E and labeled as set forth in Section 10-111; and
   ii. Have a temporary label or label certificate (for site-built products) meeting the requirements of Section 10-111 (a) (1) , not to be removed before inspection by the enforcement agency, listing the certified U-factor and SHGC, and certifying that the air leakage requirements of Section 116 (a) 1 are met for each product line; and
   iii. Have a permanent label or label certificate (for site-built products) meeting the requirements of Section 10-111 (a) (2) if the product is rated using NFRC procedures.

EXCEPTION to Section 116 (a): Fenestration products removed and reinstalled as part of a building alteration or addition.

EXCEPTION 1 to Section 116 (a) 2: Site-assembled vertical glazing in buildings covered by the nonresidential standards with less than 100,000 square feet of conditioned floor area or less than 10,000 square feet of vertical glazing shall have U-factors determined in accordance with NFRC 100-SB procedures or default values set forth in Appendix I of the Nonresidential ACM Manual. Temporary and permanent labels are not required.

EXCEPTION 2 to Section 116 (a) 2: Site-assembled vertical glazing in buildings covered by the nonresidential standards shall have SHGC values determined in accordance with NFRC 100-SB procedures or shall calculate the SHGC value for each vertical glazing as:

SHGC = 0.08 +0.86 x SHGCc

Where SHGC is the solar heat gain coefficient for the fenestration including glass and frame SHGCc is the center of glass solar heat gain coefficient for the glass alone as documented in the glazing manufacturer's literature. Documentation shall be provided as set forth in Appendix I of the Nonresidential ACM Manual.

EXCEPTION 3 to Section 116 (a) 2: Skylights and site-assembled horizontal glazing shall have SHGC values and U-factors determined in accordance with NFRC procedures or default values set forth in Appendix I of the Nonresidential ACM Manual. Documentation shall be provided as set forth in Appendix I of the Nonresidential ACM Manual. (b) Installation of Field-fabricated Fenestration Products and Exterior Doors. Field-fabricated fenestration products and exterior doors shall be caulked between the fenestration products or exterior door and the building, and shall be weather stripped.

EXCEPTION to Section 116(b): Unframed glass doors and fire doors.

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **CF1R-PRF-01-E**

Project Name: Residential Building — **Calculation Date/Time:** 2026-02-20T15:48:05-08:00 — **(Page 1 of 13)**

Calculation Description: Title 24 Analysis — **Input File Name:** 23-PLA-01.ribd22x

GENERAL INFORMATION					
01	**Project Name**	Residential Building			
02	**Run Title**	Title 24 Analysis			
03	**Project Location**	30051 Andromeda Lane			
04	**City**	Malibu	05	**Standards Version**	2022
06	**Zip code**	90265	07	**Software Version**	EnergyPro 9.4
08	**Climate Zone**	6	09	**Front Orientation (deg/ Cardinal)**	180
10	**Building Type**	Single family	11	**Number of Dwelling Units**	1
12	**Project Scope**	Newly Constructed	13	**Number of Bedrooms**	4
14	**Addition Cond. Floor Area (ft^2)**	0	15	**Number of Stories**	2
16	**Existing Cond. Floor Area (ft^2)**	n/a	17	**Fenestration Average U-factor**	0.3
18	**Total Cond. Floor Area (ft^2)**	4423	19	**Glazing Percentage (%)**	37.62%
20	**ADU Bedroom Count**	n/a	21	**ADU Conditioned Floor Area**	n/a
22	**Fuel Type**	All electric	23	**No Dwelling Unit:**	No

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

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD — **CF1R-PRF-01-E**

Project Name: Residential Building — **Calculation Date/Time:** 2026-02-20T15:48:05-08:00 — **(Page 2 of 13)**

Calculation Description: Title 24 Analysis — **Input File Name:** 23-PLA-01.ribd22x

ENERGY DESIGN RATINGS	Energy Design Ratings			Compliance Margins		
	Source Energy (EDR1)	Efficiency[1] EDR (EDR2efficiency)	Total[2] EDR (EDR2total)	Source Energy (EDR1)	Efficiency[1] EDR (EDR2efficiency)	Total[2] EDR (EDR2total)
Standard Design	36	52	31.8			
Proposed Design	25.7	41.6	27.3	10.3	10.4	4.5
RESULT[3]: PASS						

[1]Efficiency EDR includes improvements like a better building envelope and more efficient equipment
[3]Building complies when source energy, efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded

- Standard Design PV Capacity: 3.15 kWdc
- PV System resized to 3.15 kWdc (a factor of 3.149) to achieve 'Standard Design PV' PV scaling

REVISIONS	BY	DATE:

STRUCTURAL DESIGN PLUS, INC.
15053 Ventura Blvd. Suite #205
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STRUCTURAL
CIVIL
DRAFTING
TITLE-24

SHEET NAME: ENERGY SHEETS

PROJECT: NEW CONSTRUCTION
30051 ANDROMEDA LANE
MALIBU, CA 90265

DATE: 02.20.2026
DRAWN BY:
PROJECT NO.: 23-PLA-01
SCALE: NTS
SHEET NO.: EN1

ENERGY USE SUMMARY

Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft² -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft² -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft² -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft² -yr)	Margin (EDR1)	Margin (EDR2)
Space Heating	2.64	11.96	1.15	8.35	1.49	3.61
Space Cooling	0.15	7.75	0.12	7.4	0.03	0.35
IAQ Ventilation	0.29	3.07	0.29	3.07	0	0
Water Heating	0.64	7.05	0.42	5	0.22	2.05
Self Utilization/Flexibility Credit			0	0	0	0
Efficiency Compliance Total	**3.72**	**29.83**	**1.98**	**23.82**	**1.74**	**6.01**
Photovoltaics	-0.81	-22.44	-0.81	-22.44		
Battery			0	0		
Flexibility			0			
Indoor Lighting	0.59	5.89	0.59	5.89		
Appl. & Cooking	0.96	11.77	0.96	11.79		
Plug Loads	1.45	15.14	1.45	15.14		
Outdoor Lighting	0.17	1.57	0.17	1.57		
TOTAL COMPLIANCE	**6.08**	**41.76**	**4.34**	**35.77**		

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ENERGY USE INTENSITY

	Standard Design (kBtu/ft² - yr)	Proposed Design (kBtu/ft² - yr)	Margin (kBtu/ft² - yr)	Margin Percentage
Gross EUI[1]	8.8	6.49	2.31	26.25
Net EUI[2]	4.7	2.39	2.31	49.15

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

REQUIRED PV SYSTEMS

01 DC System Size (kWdc)	02 Exception	03 Module Type	04 Array Type	05 Power Electronics	06 CFI	07 Azimuth (deg)	08 Tilt Input	09 Array Angle (deg)	10 Tilt: (x in 12)	11 Inverter Eff. (%)	12 Annual Solar Access (%)
3.15	NA	Standard (14-17%)	Fixed	none	true	150-270	n/a	n/a	<=7:12	96	98

REQUIRED SPECIAL FEATURES

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

- Non-standard duct location (any location other than attic)
- Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater; specific brand/model, or equivalent, must be installed

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HERS FEATURE SUMMARY

The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry

- Quality insulation installation (QII)
- Indoor air quality ventilation
- Kitchen range hood
- Minimum Airflow
- Verified SEER/SEER2
- Fan Efficacy Watts/CFM
- Verified HSPF
- Verified heat pump rated heating capacity
- Duct leakage testing
- Ducts located entirely in conditioned space confirmed by duct leakage testing

BUILDING - FEATURES INFORMATION

01 Project Name	02 Conditioned Floor Area (ft²)	03 Number of Dwelling Units	04 Number of Bedrooms	05 Number of Zones	06 Number of Ventilation Cooling Systems	07 Number of Water Heating Systems
Residential Building	4423	1	4	2	0	1

ZONE INFORMATION

01 Zone Name	02 Zone Type	03 HVAC System Name	04 Zone Floor Area (ft²)	05 Avg. Ceiling Height	06 Water Heating System 1	07 Status
Zone 1	Conditioned	HVAC System1	1098	11	DHW Sys 1	New
Zone 2	Conditioned	HVAC System1	3325	8	DHW Sys 1	New

OPAQUE SURFACES

01 Name	02 Zone	03 Construction	04 Azimuth	05 Orientation	06 Gross Area (ft²)	07 Window and Door Area (ft2)	08 Tilt (deg)
Front Wall	Zone 1	R-15 Wall	180	Front	671	0	90
Left Wall	Zone 1	R-15 Wall	270	Left	198	0	90

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OPAQUE SURFACES

01 Name	02 Zone	03 Construction	04 Azimuth	05 Orientation	06 Gross Area (ft²)	07 Window and Door Area (ft2)	08 Tilt (deg)
Rear Wall	Zone 1	R-15 Wall	0	Back	671	269.63	90
Right Wall	Zone 1	R-19 Wall	90	Right	198	0	90
Front Wall 2	Zone 2	R-15 Wall	180	Front	1045	600.27	90
Left Wall 2	Zone 2	R-15 Wall	270	Left	385	32.5	90
Rear Wall 2	Zone 2	R-15 Wall	0	Back	1045	569.26	90
Right Wall 2	Zone 2	R-15 Wall	90	Right	385	178.51	90
Raised Floor	Zone 2	R-19 Floor No Crawlspace	n/a	n/a	3325	n/a	n/a
Interior Surface	Zone 1	R-19 Roof No Attic	n/a	n/a	1098	n/a	n/a

OPAQUE SURFACES - CATHEDRAL CEILINGS

01 Name	02 Zone	03 Construction	04 Azimuth	05 Orientation	06 Area (ft²)	07 Skylight Area (ft²)	08 Roof Rise (x in 12)	09 Roof Reflectance	10 Roof Emittance	11 Cool Roof
Roof	Zone 2	R-38 Roof No Attic	180	Front	3325	77.76	4	0.1	0.85	No

FENESTRATION / GLAZING

01 Name	02 Type	03 Surface	04 Orientation	05 Azimuth	06 Width (ft)	07 Height (ft)	08 Mult.	09 Area (ft²)	10 U-factor	11 U-factor Source	12 SHGC	13 SHGC Source	14 Exterior Shading
Window A4	Window	Rear Wall	Back	0			1	64.13	0.3	NFRC	0.23	NFRC	Bug Screen
Window A3	Window	Rear Wall	Back	0			1	38	0.3	NFRC	0.23	NFRC	Bug Screen
Window A2	Window	Rear Wall	Back	0			1	47.5	0.3	NFRC	0.23	NFRC	Bug Screen
Window/Door 102	Window	Rear Wall	Back	0			1	22	0.3	NFRC	0.23	NFRC	Bug Screen

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FENESTRATION / GLAZING

01 Name	02 Type	03 Surface	04 Orientation	05 Azimuth	06 Width (ft)	07 Height (ft)	08 Mult.	09 Area (ft²)	10 U-factor	11 U-factor Source	12 SHGC	13 SHGC Source	14 Exterior Shading
Window A1	Window	Rear Wall	Back	0			1	28.5	0.3	NFRC	0.23	NFRC	Bug Screen
Window/Door 101	Window	Rear Wall	Back	0			1	47.5	0.3	NFRC	0.23	NFRC	Bug Screen
Window A9	Window	Front Wall 2	Front	180			1	52.5	0.3	NFRC	0.23	NFRC	Bug Screen
Window/Door 201	Window	Front Wall 2	Front	180			1	81.38	0.3	NFRC	0.23	NFRC	Bug Screen
Window A8	Window	Front Wall 2	Front	180			1	34.13	0.3	NFRC	0.23	NFRC	Bug Screen
Window A7	Window	Front Wall 2	Front	180			1	21.25	0.3	NFRC	0.23	NFRC	Bug Screen
Window A7 2	Window	Front Wall 2	Front	180			1	21.25	0.3	NFRC	0.23	NFRC	Bug Screen
Window A5	Window	Front Wall 2	Front	180			1	68.88	0.3	NFRC	0.23	NFRC	Bug Screen
Window A5 2	Window	Front Wall 2	Front	180			1	68.88	0.3	NFRC	0.23	NFRC	Bug Screen
Window/Door 206	Window	Front Wall 2	Front	180			1	210	0.3	NFRC	0.23	NFRC	Bug Screen
Window A13	Window	Left Wall 2	Left	270			1	32.5	0.3	NFRC	0.23	NFRC	Bug Screen
Window/Door 202	Window	Rear Wall 2	Back	0			1	118.13	0.3	NFRC	0.23	NFRC	Bug Screen
Window/Door 204	Window	Rear Wall 2	Back	0			1	157.5	0.3	NFRC	0.23	NFRC	Bug Screen
Window A11	Window	Rear Wall 2	Back	0			1	18	0.3	NFRC	0.23	NFRC	Bug Screen
Window/Door 205	Window	Rear Wall 2	Back	0			1	275.63	0.3	NFRC	0.23	NFRC	Bug Screen

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FENESTRATION / GLAZING

01 Name	02 Type	03 Surface	04 Orientation	05 Azimuth	06 Width (ft)	07 Height (ft)	08 Mult.	09 Area (ft²)	10 U-factor	11 U-factor Source	12 SHGC	13 SHGC Source	14 Exterior Shading
Window A10	Window	Right Wall 2	Right	90			1	60.38	0.3	NFRC	0.23	NFRC	Bug Screen
Window/Door 203	Window	Right Wall 2	Right	90			1	118.13	0.3	NFRC	0.23	NFRC	Bug Screen
Skylight	Skylight	Roof	Front	180			1	8.25	0.3	NFRC	0.23	NFRC	
Skylight 2	Skylight	Roof	Front	180			1	8.25	0.3	NFRC	0.23	NFRC	
Skylight 3	Skylight	Roof	Front	180			1	23.76	0.3	NFRC	0.23	NFRC	
Skylight 4	Skylight	Roof	Front	180			1	37.5	0.3	NFRC	0.23	NFRC	

OPAQUE DOORS

01 Name	02 Side of Building	03 Area (ft²)	04 U-factor
Door 103	Rear Wall	22	0.2
Door 200	Front Wall 2	42	0.2

SLAB FLOORS

01 Name	02 Zone	03 Area (ft²)	04 Perimeter (ft)	05 Edge Insul. R-value and Depth	06 Edge Insul. R-value and Depth	07 Carpeted Fraction	08 Heated
Slab	Zone 1	1098	158	none	0	80%	No

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STRUCTURAL
CIVIL
DRAFTING
TITLE-24

SHEET NAME: ENERGY SHEETS

PROJECT: NEW CONSTRUCTION
30051 ANDROMEDA LANE
MALIBU, CA 90265

DATE: 02.20.2026
DRAWN BY:
PROJECT NO.: 23-PLA-01
SCALE: NTS
SHEET NO.: EN2

OPAQUE SURFACE CONSTRUCTIONS

01	02	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
R-15 Wall	Exterior Walls	Wood Framed Wall	2x4 @ 16 in. O. C.	R-15	None / None	0.095	Inside Finish: Gypsum Board Cavity / Frame: R-15 / 2x4 Exterior Finish: 3 Coat Stucco
R-19 Wall	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O. C.	R-19	None / None	0.074	Inside Finish: Gypsum Board Cavity / Frame: R-19 in 5-1/2 in. (R-18) / 2x6 Exterior Finish: 3 Coat Stucco
R-38 Roof No Attic	Cathedral Ceilings	Wood Framed Ceiling	2x12 @ 16 in. O. C.	R-38	None / None	0.03	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: R-38 / 2x12 Inside Finish: Gypsum Board
R-19 Floor No Crawlspace	Exterior Floors	Wood Framed Floor	2x10 @ 16 in. O. C.	R-19	None / None	0.047	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: R-19 / 2x10
R-19 Roof No Attic	Interior Ceiling	Wood Framed Ceiling	2x8 @ 16 in. O. C.	R-19	None / None	0.046	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: R-19 / 2x8 Ceiling Below Finish: Gypsum Board

BUILDING ENVELOPE - HERS VERIFICATION

01	02	03	04	05
Quality Insulation Installation (QII)	High R-value Spray Foam Insulation	Building Envelope Air Leakage	CFM50	CFM50
Required	Not Required	N/A	n/a	n/a

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WATER HEATING SYSTEMS

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

WATER HEATERS - NEEA HEAT PUMP

01	02	03	04	05	06	07	08
Name	# of Units	Tank Vol. (gal)	NEEA Heat Pump Brand	NEEA Heat Pump Model	Tank Location	Duct Inlet Air Source	Duct Outlet Air Source
DHW Heater 1	1	80	Generic	NEEA Tier 4 Generic 80	Outside	Zone 2	Zone 2

WATER HEATING - HERS VERIFICATION

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

SPACE CONDITIONING SYSTEMS

01	02	03	04	05	06	07	08
Name	System Type	Heating Unit Name	Heating Equipment Count	Cooling Unit Name	Cooling Equipment Count	Fan Name	Distribution Name
HVAC System1	Heat pump heating cooling	Heat Pump System 1	2	Heat Pump System 1	2	HVAC Fan 1	Air Distribution System 1

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HVAC - HEAT PUMPS

01	02	03	04	05	06	07	08	09	10	11	12	13
			Heating			Cooling						
Name	System Type	Number of Units	Heating Efficiency Type	HSPF/IHSPF2/COP	Cap 47	Cap 17	Cooling Efficiency Type	SEER/SEER2	EER/EER2/CEER	Zonally Controlled	Compressor Type	HERS Verification
Heat Pump System 1	Central split HP	2	HSPF	9	60000	50000	EERSEER	16	11.7	Not Zonal	Single Speed	Heat Pump System 1-hers-htpump

HVAC HEAT PUMPS - HERS VERIFICATION

01	02	03	04	05	06	07	08	09
Name	Verified Airflow	Airflow Target	Verified EER/EER2	Verified SEER/SEER2	Verified Refrigerant Charge	Verified HSPF/HSPF2	Verified Heating Cap 47	Verified Heating Cap 17
Heat Pump System 1-hers-htpump	Required	350	Not Required	Required	No	Yes	Yes	Yes

HVAC - DISTRIBUTION SYSTEMS

01	02	03	04	05	06	07	08	09	10	11	12
			Duct Ins. R-value		Duct Location		Surface Area				
Name	Type	Design Type	Supply	Return	Supply	Return	Supply	Return	Bypass Duct	Duct Leakage	HERS Verification
Air Distribution System 1	Conditioned space-entirely	Non-Verified	R-6	R-6	Conditioned Zone	Conditioned Zone	n/a	n/a	No Bypass Duct	Sealed and Tested	Air Distribution System 1-hers-dist

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HVAC DISTRIBUTION - HERS VERIFICATION

01	02	03	04	05	06	07	08	09
Name	Duct Leakage Verification	Duct Leakage Target (%)	Verified Duct Location	Verified Duct Design	Buried Ducts	Deeply Buried Ducts	Low-leakage Air Handler	Low Leakage Ducts Entirely in Conditioned Space
Air Distribution System 1-hers-dist	Yes	5.0	Required	Not Required	Not Required	Credit not taken	Not Required	No

HVAC - FAN SYSTEMS

01	02	03	04
Name	Type	Fan Power (Watts/CFM)	Name
HVAC Fan 1	HVAC Fan	0.45	HVAC Fan 1-hers-fan

HVAC FAN SYSTEMS - HERS VERIFICATION

01	02	03
Name	Verified Fan Watt Draw	Required Fan Efficacy (Watts/CFM)
HVAC Fan 1-hers-fan	Required	0.45

INDOOR AIR QUALITY (IAQ) FANS

01	02	03	04	05	06	07	08	09
Dwelling Unit	Airflow (CFM)	Fan Efficacy (W/CFM)	IAQ Fan Type	Includes Heat/Energy Recovery?	IAQ Recovery Effectiveness - SRE/ASRE	Includes Fault Indicator Display?	HERS Verification	Status
SFam IAQVentRpt	164	0.35	Exhaust	No	n/a / n/a	No	Yes	

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Dean Almalla	Documentation Author Signature: Dean Almalla
Company: Structural Design Plus, Inc.	Signature Date: 02/20/2026
Address: 15053 Ventura Boulevard	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Sherman Oaks, CA 91403	Phone: 818-905-9871

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance.
2. I certify that the energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
3. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Responsible Designer Name: Dean Almalla	Responsible Designer Signature: Dean Almalla
Company: Structural Design Plus, Inc.	Date Signed: 02/20/2026
Address: 15053 Ventura Boulevard	License:
City/State/Zip: Sherman Oaks, CA 91403	Phone: 818-905-9871

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

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RESIDENTIAL MEASURES SUMMARY — RMS-1

Project Name	Building Type			Date
Andromeda	☑ Single Family ☐ Multi Family	☐ Addition Alone ☐ Existing+ Addition/Alteration		*2/20/2026*
Project Address	**California Energy Climate Zone**	**Total Cond. Floor Area**	**Addition**	**# of Units**
30051 Andromeda Lane Malibu	*CA Climate Zone 06*	*4,423*	*n/a*	*1*

INSULATION

Construction	Type	Cavity	Area (ft^2)	Special Features	Status
Wall	*Wood Framed*	*R 15*	*2,750*		*New*
Door	*Opaque Door*	*R-5*	*64*		*New*
Wall	*Wood Framed*	*R 19*	*198*		*New*
Slab	*Unheated Slab-on-Grade*	*- no insulation*	*1,098*	*Perim = 158'*	*New*
Demising	*Wood Framed Rafter*	*R 19*	*1,098*		*New*
Floor	*Wood Framed w/o Crawl Space*	*R 19*	*3,325*		*New*
Roof	*Wood Framed Rafter*	*R 38*	*3,247*		*New*

FENESTRATION Total Area: *1,664* Glazing Percentage: *37.6%* New/Altered Average U-Factor: *0.30*

Orientation	Area(ft^2)	U-Fac	SHGC	Overhang	Sidefins	Exterior Shades	Status
Rear (N)	*816.9*	*0.300*	*0.23*	*none*	*none*	*N/A*	*New*
Front (S)	*636.0*	*0.300*	*0.23*	*none*	*none*	*N/A*	*New*
Left (W)	*32.5*	*0.300*	*0.23*	*none*	*none*	*N/A*	*New*
Right (E)	*178.5*	*0.300*	*0.23*	*none*	*none*	*N/A*	*New*

HVAC SYSTEMS

Qty.	Heating	Min. Eff	Cooling	Min. Eff	Thermostat	Status
2	*Electric Heat Pump*	*9.00 HSPF*	*Split Heat Pump*	*16.0 SEER*	*Setback*	*New*

HVAC DISTRIBUTION

Location	Heating	Cooling	Duct Location	Duct R-Value	Status
HVAC System	*Ducted*	*Ducted*	*Conditioned*	*6.0*	*New*

WATER HEATING

Qty.	Type	Gallons	Min. Eff	Distribution	Status
1	*Heat Pump*	*80*	*3.20*	*Standard*	*New*

REVISIONS	BY	DATE

STRUCTURAL DESIGN PLUS, INC.
15053 Ventura Blvd, Suite #205
Sherman Oaks, CA 91403
TEL: 818.905.9871
FAX: 818.905.9872
Email: designplus@sbcglobal.net

STRUCTURAL
CIVIL
DRAFTING
TITLE-24

ENERGY SHEETS

SHEET NAME:

NEW CONSTRUCTION
30051 ANDROMEDA LANE
MALIBU, CA 90265

PROJECT:

DATE: 02.20.2026
DRAWN BY:
PROJECT NO.: 23-PLA-01
SCALE: NTS
SHEET NO.: **EN3**

2022 Single-Family Residential Mandatory Requirements Summary

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

Building Envelope:

§ 110.6(a)1:	**Air Leakage.** Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 CFM per square foot or less when tested per NFRC-400, ASTM E283, or AAMA/WDMA/CSA 101/I.S.2/A440-2011. *
§ 110.6(a)5:	**Labeling.** Fenestration products and exterior doors must have a label meeting the requirements of § 10-111(a).
§ 110.6(b):	**Field fabricated exterior doors and fenestration** products must use U-factors and solar heat gain coefficient (SHGC) values from Tables 110.6-A, 110.6-B, or JA4.5 for exterior doors. They must be caulked and/or weather-stripped. *
§ 110.7:	**Air Leakage.** All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be caulked, gasketed, or weather stripped.
§ 110.8(a):	**Insulation Certification by Manufacturers.** Insulation must be certified by the Department of Consumer Affairs, Bureau of Household Goods and Services (BHGS).
§ 110.8(g):	**Insulation Requirements for Heated Slab Floors.** Heated slab floors must be insulated per the requirements of § 110.8(g).
§ 110.8(i):	**Roofing Products Solar Reflectance and Thermal Emittance.** The thermal emittance and aged solar reflectance values of the roofing material must meet the requirements of § 110.8(i) and be labeled per §10-113 when the installation of a cool roof is specified on the CF1R.
§ 110.8(j):	**Radiant Barrier.** When required, radiant barriers must have an emittance of 0.05 or less and be certified to the Department of Consumer Affairs.
§ 150.0(a):	**Roof Deck, Ceiling and Rafter Roof Insulation.** Roof decks in newly constructed attics in climate zones 4 and 8-16 area-weighted average U-factor not exceeding U-0.184. Ceiling and rafter roofs minimum R-22 insulation in wood-frame ceiling; or area-weighted average U-factor must not exceed 0.043. Rafter roof alterations minimum R-19 or area-weighted average U-factor of 0.054 or less. Attic access doors must have permanently attached insulation using adhesive or mechanical fasteners. The attic access must be gasketed to prevent air leakage. Insulation must be installed in direct contact with a roof or ceiling which is sealed to limit infiltration and exfiltration, as specified in § 110.7, including but not limited to placing insulation either above or below the roof deck or on top of a drywall ceiling. *
§ 150.0(b):	**Loose-fill Insulation.** Loose fill insulation must meet the manufacturer's required density for the labeled R-value.
§ 150.0(c):	**Wall Insulation.** Minimum R-13 insulation in 2x4 inch wood framing wall or have a U-factor of 0.102 or less, or R-20 in 2x6 inch wood framing or have a U-factor of 0.071 or less. Opaque non-framed assemblies must have an overall assembly U-factor not exceeding 0.102. Masonry walls must meet Tables 150.1-A or B. *
§ 150.0(d):	**Raised-floor Insulation.** Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor. *
§ 150.0(f):	**Slab Edge Insulation.** Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material alone without facings, no greater than 0.3 percent; have a water vapor permeance no greater than 2.0 perm per inch; be protected from physical damage and UV light deterioration; and, when installed as part of a heated slab floor, meet the requirements of § 110.8(g).
§ 150.0(g)1:	**Vapor Retarder.** In climate zones 1 through 16, the earth floor of unvented crawl space must be covered with a Class I or Class II vapor retarder. This requirement also applies to controlled ventilation crawl space for buildings complying with the exception to §150.0(d).
§ 150.0(g)2:	**Vapor Retarder.** In climate zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of all insulation in all exterior walls, vented attics, and unvented attics with air-permeable insulation.
§ 150.0(q):	**Fenestration Products.** Fenestration, including skylights, separating conditioned space from unconditioned space or outdoors must have a maximum U-factor of 0.45; or area-weighted average U-factor of all fenestration must not exceed 0.45. *

Fireplaces, Decorative Gas Appliances, and Gas Log:

§ 110.5(e)	**Pilot Light.** Continuously burning pilot lights are not allowed for indoor and outdoor fireplaces.
§ 150.0(e)1:	**Closable Doors.** Masonry or factory-built fireplaces must have a closable metal or glass door covering the entire opening of the firebox.
§ 150.0(e)2:	**Combustion Intake.** Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square inches in area and is equipped with a readily accessible, operable, and tight-fitting damper or combustion-air control device. *
§ 150.0(e)3:	**Flue Damper.** Masonry or factory-built fireplaces must have a flue damper with a readily accessible control. *

Space Conditioning, Water Heating, and Plumbing System:

§ 110.0-§ 110.3:	**Certification.** Heating, ventilation, and air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other regulated appliances must be certified by the manufacturer to the California Energy Commission.
§ 110.2(a):	**HVAC Efficacy.** Equipment must meet the applicable efficiency requirements in Table 110.2-A through Table 110.2-N. *
§ 110.2(b):	**Controls for Heat Pumps with Supplementary Electric Resistance Heaters.** Heat pumps with supplementary electric resistance heaters must have controls that prevent supplementary heater operation when the heating load can be met by the heat pump alone; and in which the cut-on temperature for compression heating is higher than the cut-on temperature for supplementary heating, and the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating. *
§ 110.2(c):	**Thermostats.** All heating or cooling systems not controlled by a central energy management control system (EMCS) must have a setback thermostat. *
§ 110.3(c)3:	**Insulation.** Unfired service water heater storage tanks and solar water-heating backup tanks must have adequate insulation, or tank surface heat loss rating.
§ 110.3(c)6:	**Isolation Valves.** Instantaneous water heaters with an input rating greater than 6.8 kBtu per hour (2 kW) must have isolation valves with hose bibbs or other fittings on both cold and hot water lines to allow for flushing the water heater when the valves are closed.

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2022 Single-Family Residential Mandatory Requirements Summary

§ 110.5:	**Pilot Lights.** Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces; household cooking appliances (except appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu per hour); and pool and spa heaters. *
§ 150.0(h)1:	**Building Cooling and Heating Loads.** Heating and/or cooling loads are calculated in accordance with the ASHRAE Handbook, Equipment Volume, Applications Volume, and Fundamentals Volume; the SMACNA Residential Comfort System Installation Standards Manual; or the ACCA Manual J using design conditions specified in § 150.0(h)2.
§ 150.0(h)3A:	**Clearances.** Air conditioner and heat pump outdoor condensing units must have a clearance of at least five feet from the outlet of any dryer.
§ 150.0(h)3B:	**Liquid Line Drier.** Air conditioners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the manufacturer's instructions.
§ 150.0(j)1:	**Water Piping. Solar Water-heating System Piping, and Space Conditioning System Line Insulation.** All domestic hot water piping must be insulated as specified in § 609.11 of the California Plumbing Code. *
§ 150.0(j)2:	**Insulation Protection.** Piping insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind as required by §120.3(b). Insulation exposed to weather must be water retardant and protected from UV light (no adhesive tapes). Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space must include, or be protected by, a Class I or Class II vapor retarder. Pipe insulation buried below grade must be installed in a waterproof and non-crushable casing or sleeve.
§ 150.0(n)1:	**Gas or Propane Water Heating Systems.** Systems using gas or propane water heaters to serve individual dwelling units must designate a space at least 2.5 ' x 2.5' x 7' suitable for the future installation of a heat pump water heater, and meet electrical and plumbing requirements, based on the distance between this designated space and the water heater location; and a condensate drain no more than 2' higher than the base of the water heater
§ 150.0(n)3:	**Solar Water-heating Systems.** Solar water-heating systems and collectors must be certified and rated by the Solar Rating and Certification Corporation (SRCC), the International Association of Plumbing and Mechanical Officials, Research and Testing (IAPMO R&T), or by a listing agency that is approved by the executive director.

Ducts and Fans:

§ 110.8(d)3:	**Ducts.** Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Code (CMC). If a contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets this requirement.
§ 150.0(m)1:	**CMC Compliance.** All air-distribution system ducts and plenums must meet CMC §§ 601.0-605.0 and ANSI/SMACNA-006-2006 HVAC Duct Construction Standards Metal and Flexible 3rd Edition. Portions of supply-air and return-air ducts and plenums must be insulated to R-6.0 or higher; ducts located entirely in conditioned space as confirmed through field verification and diagnostic testing (RA3.1.4.3.8) do not require insulation. Connections of metal ducts and inner core of flexible ducts must be mechanically fastened. Openings must be sealed with mastic, tape, or other duct-closure system that meets the applicable UL requirements, or aerosol sealant that meets UL 723. The combination of mastic and either mesh or tape must be used to seal openings greater than ¼", if mastic or tape is used. Building cavities, air handler support platforms, and plenums designed or constructed with materials other than sealed sheet metal, duct board or flexible duct must not be used to convey conditioned air. Building cavities and support platforms may contain ducts; ducts installed in these spaces must not be compressed. *
§ 150.0(m)2:	**Factory-Fabricated Duct Systems.** Factory-fabricated duct systems must comply with applicable requirements for duct construction, connections, and closures; joints and seams of duct systems and their components must not be sealed with cloth back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands.
§ 150.0(m)3:	**Field-Fabricated Duct Systems.** Field-fabricated duct systems must comply with applicable requirements for: pressure-sensitive tapes, mastics, sealants, and other requirements specified for duct construction.
§ 150.0(m)7:	**Backdraft Damper.** Fan systems that exchange air between the conditioned space and outdoors must have backdraft or automatic dampers.
§ 150.0(m)8:	**Gravity Ventilation Dampers.** Gravity ventilating systems serving conditioned space must have either automatic or readily accessible, manually operated dampers in all openings to the outside, except combustion inlet and outlet air openings and elevator shaft vents.
§ 150.0(m)9:	**Protection of Insulation.** Insulation must be protected from damage due tosunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather must be suitable for outdoor service (e.g., protected by aluminum, sheet metal, painted canvas, or plastic cover). Cellular foam insulation must be protected as above or painted with a water retardant and solar radiation-resistant coating.
§ 150.0(m)10:	**Porous Inner Core Flex Duct.** Porous inner cores of flex ducts must have a non-porous layer or air barrier between the inner core and outer vapor barrier.
§ 150.0(m)11:	**Duct System Sealing and Leakage Test.** When space conditioning systems use forced air duct systems to supply conditioned air to an occupiable space, the ducts must be sealed and duct leakage tested, as confirmed through field verification and diagnostic testing, in accordance with Reference Residential Appendix RA3.1.
§ 150.0(m)12:	**Air Filtration.** Space conditioning systems with ducts exceeding 10 feet and the supply side of ventilation systems must have MERV 13 or equivalent filters. Filters for space conditioning systems must have a two inch depth or can be one inch if sized per Equation 150.0-A. Clean-filter pressure drop and labeling must meet the requirements in §150.0(m)12. Filters must be accessible for regular service. Filter racks or grilles must use gaskets, sealing, or other means to close gaps around the inserted filters to and prevents air from bypassing the filter. *

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§ 150.0(m)13:	**Space Conditioning System Airflow Rate and Fan Efficacy.** Space conditioning systems that use ducts to supply cooling must have a hole for the placement of a static pressure probe, or a permanently installed static pressure probe in the supply plenum. Airflow must be ≥ 350 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.45 watts per CFM for gas furnace air handlers and ≤ 0.58 watts per CFM for all others. Small duct high velocity systems must provide an airflow ≥ 250 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.62 watts per CFM. Field verification testing is required in accordance with Reference Residential Appendix RA3.3. *

Ventilation and Indoor Air Quality:

§ 150.0(o)1:	**Requirements for Ventilation and Indoor Air Quality.** All dwelling units must meet the requirements of ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(o)1. *
§ 150.0(o)1B:	**Central Fan Integrated (CFI) Ventilation Systems.** Continuous operation of CFI air handlers is not allowed to provide the whole-dwelling unit ventilation airflow required per §150.0(o)1C. A motorized damper(s) must be installed on the ventilation duct(s) that prevents all airflow through the space conditioning duct system when the damper(s) is closed andcontrolled per §150.0(o)1Biii&iv. CFI ventilation systems must have controls that track outdoor air ventilation run time, and either open or close the motorized damper(s) for compliance with §150.0(o)1C.
§ 150.0(o)1C:	**Whole-Dwelling Unit Mechanical Ventilation for Single-Family Detached and townhouses .** Single-family detached dwelling units, and attached dwelling units not sharing ceilings or floors with other dwelling units, occupiable spaces, public garages, or commercial spaces must have mechanical ventilation airflow specified in § 150.0(o)1Ci-iii.
§ 150.0(o)1G:	**Local Mechanical Exhaust.** Kitchens and bathrooms must have local mechanical exhaust; nonenclosed kitchens must have demand-controlled exhaust system meeting requirements of §150.0(o)1Gii,enclosed kitchens and bathrooms can use demand-controlled or continuous exhaust meeting §150.0(o)1Giii-iv. Airflow must be measured by the installer per §150.0(o)1Gv, and rated for sound per §150.0(o)1Gvi. *
§ 150.0(o)1H&I:	**Airflow Measurement and Sound Ratings of Whole-Dwelling Unit Ventilation Systems.** The airflow required per § 150.0(o)1C must be measured by using a flow hood, flow grid, or other airflow measuring device at the fan's inlet or outlet terminals/grilles per Reference Residential Appendix RA3.7. Whole-Dwelling unit ventilation systems must be rated for sound per ASHRAE 62.2 §7.2 at no less than the minimum airflow rate required by §150.0(o)1C.
§ 150.0(o)2:	**Field Verification and Diagnostic Testing.** Whole-Dwelling Unit ventilation airflow, vented range hood airflow and sound rating, and HRV and ERV fan efficacy must be verified in accordance with Reference Residential Appendix RA3.7. Vented range hoods must be verified per Reference Residential Appendix RA3.7.4.3 to confirm if it is rated by HVI or AHAM to comply with the airflow rates and sound requirements per §150.0(o)1G

Pool and Spa Systems and Equipment:

§ 110.4(a):	**Certification by Manufacturers.** Any pool or spa heating system or equipment must be certified to have all of the following: compliance with the Appliance Efficiency Regulations and listing in MAEDbS; an on-off switch mounted outside of the heater that allows shutting off the heater without adjusting the thermostat setting; a permanent weatherproof plate or card with operating instructions; and must not use electric resistance heating. *
§ 110.4(b)1:	**Piping.** Any pool or spa heating system or equipment must be installed with at least 36 inches of pipe between the filter and the heater, or dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating.
§ 110.4(b)2:	**Covers.** Outdoor pools or spas that have a heat pump or gas heater must have a cover.
§ 110.4(b)3:	**Directional Inlets and Time Switches for Pools.** Pools must have directional inlets that adequately mix the pool water, and a time switch that will allow all pumps to be set or programmed to run only during off-peak electric demand periods.
§ 110.5:	**Pilot Light.** Natural gas pool and spa heaters must not have a continuously burning pilot light.
§ 150.0(p):	**Pool Systems and Equipment Installation.** Residential pool systems or equipment must meet the specified requirements for pump sizing, flow rate, piping, filters, and valves. *

Lighting:

§ 110.9:	**Lighting Controls and Components.** All lighting control devices and systems, ballasts, and luminaires must meet the applicable requirements of § 110.9. *
§ 150.0(k)1A:	**Luminaire Efficacy.** All installed luminaires must meet the requirements in Table 150.0-A, except lighting integral to exhaust fans, kitchen range hoods, bath vanity mirrors, and garage door openers; navigation lighting less than 5 watts; and lighting internal to drawers, cabinets, and linen closets with an efficacy of at least 45 lumens per watt.
§ 150.0(k)1B:	**Screw based luminaires.** Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8. *
§ 150.0(k)1C:	**Recessed Downlight Luminaires in Ceilings.** Luminaires recessed into ceilings must not contain screw based sockets, must be airtight, and must be sealed with a gasket or caulk. California Electrical Code § 410.116 must also be met.
§ 150.0(k)1D:	**Light Sources in Enclosed or Recessed Luminaires.** Lamps and other separable light sources that are not compliant with the JA8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(k)1E:	**Blank Electrical Boxes.** The number of electrical boxes that are more than five feet above the finished floor and do not contain a luminaire or other device shall be no more than the number of bedrooms. These boxes must be served by a dimmer, vacancy sensor control, low voltage wiring, or fan speed control.
§ 150.0(k)1F:	**Lighting Integral to Exhaust Fans.** Lighting integral to exhaust fans (except when installed by the manufacturer in kitchen exhaust hoods) must meet the applicable requirements of § 150.0(k). *

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2022 Single-Family Residential Mandatory Requirements Summary

§ 150.0(k)1G:	**Screw based luminaires.** Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8. *
§ 150.0(k)1H:	**Light Sources in Enclosed or Recessed Luminaires.** Lamps and other separable light sources that are not compliant with the JA8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(k)1I:	**Light Sources in Drawers, Cabinets, and Linen Closets.** Light sources internal to drawers, cabinetry or linen closets are not required to comply with Table 150.0-A or be controlled by vacancy sensors provided that they are rated to consume no more than 5 watts of power, emit no more than 150 lumens, and are equipped with controls that automatically turn the lighting off when the drawer, cabinet or linen closet is closed.
§ 150.0(k)2A:	**Interior Switches and Controls.** All forward phase cut dimmers used with LED light sources must comply with NEMA SSL 7A.
§ 150.0(k)2B:	**Interior Switches and Controls.** Exhaust fans must be controlled separately from lighting systems. *
§ 150.0(k)2A:	**Accessible Controls.** Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually turned on and off. *
§ 150.0(k)2B:	**Multiple Controls.** Controls must not bypass a dimmer, occupant sensor, or vacancy sensor function if the dimmer or sensor is installed to comply with § 150.0(k).
§ 150.0(k)2C:	**Mandatory Requirements.** Lighting controls must comply with the applicable requirements of § 110.9.
§ 150.0(k)2D:	**Energy Management Control Systems.** An energy management control system (EMCS) may be used to comply with dimming, occupancy, and control requirements if it provides the functionality of the specified control per § 110.9 and the physical controls specified in § 150.0(k)2A.
§ 150.0(k)2E:	**Automatic Shutoff Controls.** In bathrooms, garages, laundry rooms, utility rooms and walk-in closets, at least one installed luminaire must be controlled by an occupancy or vacancy sensor providing automatic-off functionality. Lighting inside drawers and cabinets with opaque fronts or doors must have controls that turn the light off when the drawer or door is closed.
§ 150.0(k)2F:	**Dimmers.** Lighting in habitable spaces (e.g., living rooms, dining rooms, kitchens, and bedrooms) must have readily accessible wall-mounted dimming controls that allow the lighting to be manually adjusted up and down. Forward phase cut dimmers controlling LED light sources in these spaces must comply with NEMA SSL 7A.
§ 150.0(k)2K:	**Independent controls.** Integrated lighting of exhaust fans shall be controlled independently from the fans. Lighting under cabinets or shelves, lighting in display cabinets, and switched outlets must be controlled separately from ceiling-installed lighting.
§ 150.0(k)3A:	**Residential Outdoor Lighting.** For single-family residential buildings, outdoor lighting permanently mounted to a residential building, or to other buildings on the same lot, must have a manual on/off switch and either a photocell and motion sensor or automatic time switch control) or an astronomical time clock. An energy management control system that provides the specified control functionality and meets all applicable requirements may be used to meet these requirements.
§ 150.0(k)4:	**Internally illuminated address signs.** Internally illuminated address signs must either comply with § 140.8 or consume no more than 5 watts of power.
§ 150.0(k)5:	**Residential Garages for Eight or More Vehicles.** Lighting for residential parking garages for eight or more vehicles must comply with the applicable requirements for nonresidential garages in §§ 110.9, 130.0, 130.1, 130.4, 140.6, and 141.0.

Solar Readiness:

§ 110.10(a)1:	**Single-family Residences.** Single-family residences located in subdivisions with 10 or more single-family residences and where the application for a tentative subdivision map for the residences has been deemed complete and approved by the enforcement agency, which do not have a photovoltaic system installed, must comply with the requirements of § 110.10(b)-(e).
§110.10(b)1A:	**Minimum Solar Zone Area.** The solar zone must have a minimum total area as described below. The solar zone must comply with access, pathway, smoke ventilation, and spacing requirements as specified in Title 24, Part 9 or other parts of Title 24 or in any requirements adopted by a local jurisdiction. The solar zone total area must be comprised of areas that have no dimension less than 5 feet and are no less than 80 square feet each for buildings with roof areas less than or equal to 10,000 square feet or no less than 160 square feet each for buildings with roof areas greater than 10,000 square feet. For single-family residences, the solar zone must be located on the roof or overhang of the building and have a total area no less than 250 square feet. *
§ 110.10(b)2:	**Azimuth.** All sections of the solar zone located on steep-sloped roofs must have an azimuth between 90-300° of true north.
§ 110.10(b)3A:	**Shading.** The solar zone must not contain any obstructions, including but not limited to: vents, chimneys, architectural features, and roof mounted equipment.
§ 110.10(b)3B:	**Shading.** Any obstruction located on the roof or any other part of the building that projects above a solar zone must be located at least twice the horizontal distance of the height difference between the highest point of the obstruction and the horizontal projection of the nearest point of the solar zone, measured in the vertical plane.
§ 110.10(b)4:	**Structural Design Loads on Construction Documents.** For areas of the roof designated as a solar zone, the structural design loads for roof dead load and roof live load must be clearly indicated on the construction documents.
§ 110.10(c):	**Interconnection Pathways.** The construction documents must indicate: a location reserved for inverters and metering equipment and a pathway reserved for routing of conduit from the solar zone to the point of interconnection with the electrical service; and for single-family residences and central water-heating systems, a pathway reserved for routing plumbing from the solar zone to the water-heating system.
§ 110.10(d):	**Documentation.** A copy of the construction documents or a comparable document indicating the information from § 110.10(b)-(c) must be provided to the occupant.
§ 110.10(e)1:	**Main Electrical Service Panel.** The main electrical service panel must have a minimum busbar rating of 200 amps.
§ 110.10(e)2:	**Main Electrical Service Panel.** The main electrical service panel must have a reserved space to allow for the installation of a double pole circuit breaker for a future solar electric installation. The reserved space must be permanently marked as "For Future Solar Electric."

Electric and Energy Storage Ready:

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2022 Single-Family Residential Mandatory Requirements Summary

§ 150.0(s)	**Energy Storage System (ESS) Ready.** All single-family residences must meet all of the following: Either ESS-ready interconnection equipment with backed up capacity of 60 amps or more and four or more ESS supplied branch circuits, or a dedicated raceway from the main service to a subpanel that supplies the branch circuits in § 150.0(s); at least four branch circuits must be identified and have their source collocated at a single panelboard suitable to be supplied by the ESS, with one circuit supplying the refrigerator, one lighting circuit near the primary exit, and one circuit supplying a sleeping room receptacle outlet; main panelboard must have a minimum busbar rating of 225 amps; sufficient space must be reserved to allow future installation of a system isolation equipment/transfer switch within 3' of the main panelboard, with raceways installed between the panelboard and the switch location to allow the connection of backup power source.
§ 150.0(t)	**Heat Pump Space Heater Ready.** Systems using gas or propane furnaces to serve individual dwelling units must include: A dedicated unobstructed 240V branch circuit wiring installed within 3' of the furnace with circuit conductors rated at least 30 amps with the blank cover identified as "240V ready;" and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."
§ 150.0(u)	**Electric Cooktop Ready.** Systems using gas or propane cooktop to serve individual dwelling units must include: A dedicated unobstructed 240V branch circuit wiring installed within 3' of the cooktop with circuit conductors rated at least 50 amps with the blank cover identified as "240V ready;" and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."
§ 150.0(v)	**Electric Clothes Dryer Ready.** Clothes dryer locations with gas or propane plumbing to serve individual dwelling units must include: A dedicated unobstructed 240V branch circuit wiring installed within 3' of the dryer location with circuit conductors rated at least 30 amps with the blank cover identified as "240V ready;" and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker permanently marked as "For Future 240V use."

*Exceptions may apply.

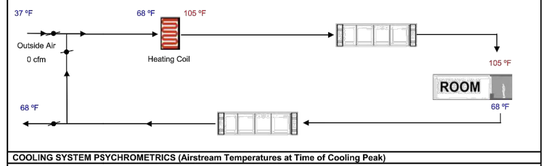
5/6/22

HVAC SYSTEM HEATING AND COOLING LOADS SUMMARY

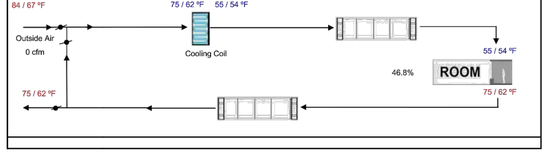
Project Name: Andromeda — Date: 2/20/2026
System Name: HVAC System — Floor Area: 4,423

ENGINEERING CHECKS		SYSTEM LOAD	COIL COOLING PEAK CFM	COIL COOLING PEAK Sensible	COIL COOLING PEAK Latent	COIL HTG. PEAK CFM	COIL HTG. PEAK Sensible
Number of Systems	2						
Heating System							
Output per System	60,000	**Total Room Loads**	2,024	43,123	2,587	1,059	41,933
Total Output (Btuh)	120,000	**Return Vented Lighting**		0			
Output (Btuh/sqft)	27.1	**Return Air Ducts**		473			483
Cooling System		**Return Fan**		0			0
Output per System	60,000	**Ventilation**	0	0	0	0	0
Total Output (Btuh)	120,000	**Supply Fan**		0			0
Total Output (Tons)	10.0	**Supply Air Ducts**		473			483
Total Output (Btuh/sqft)	27.1						
Total Output (sqft/Ton)	442.3	**TOTAL SYSTEM LOAD**		44,068	2,587		42,898
Air System							
CFM per System	0	**HVAC EQUIPMENT SELECTION**					
Airflow (cfm)	0	Standard Heat Pump		116,343	0		98,282
Airflow (cfm/sqft)	0.00						
Airflow (cfm/Ton)	0.0						
Outside Air (%)	0.0%	**Total Adjusted System Output** (Adjusted for Peak Design conditions)		116,343	0		98,282
Outside Air (cfm/sqft)	0.00						
Note: values above gives at ARI conditions		**TIME OF SYSTEM PEAK**		Aug 3 PM			Jan 1 AM

HEATING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Heating Peak)



COOLING SYSTEM PSYCHROMETRICS (Airstream Temperatures at Time of Cooling Peak)



REVISIONS | BY | DATE:

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STRUCTURAL
CIVIL
DRAFTING
TITLE-24

SHEET NAME: ENERGY SHEETS

PROJECT: NEW CONSTRUCTION
30051 ANDROMEDA LANE
MALIBU, CA 90265

DATE: 02.20.2026
DRAWN BY:
PROJECT NO.: 23-PLA-01
SCALE: NTS
SHEET NO.: EN4