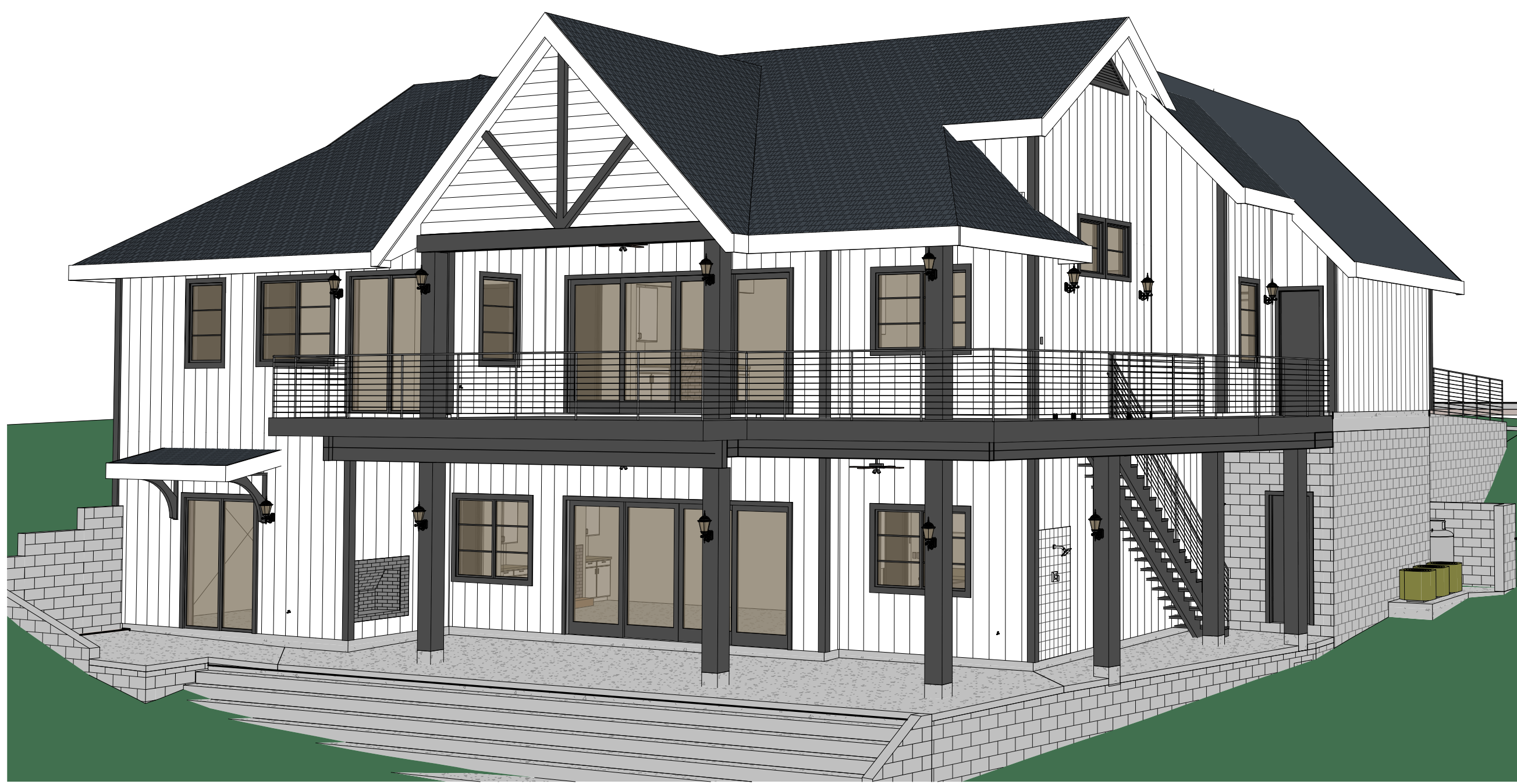
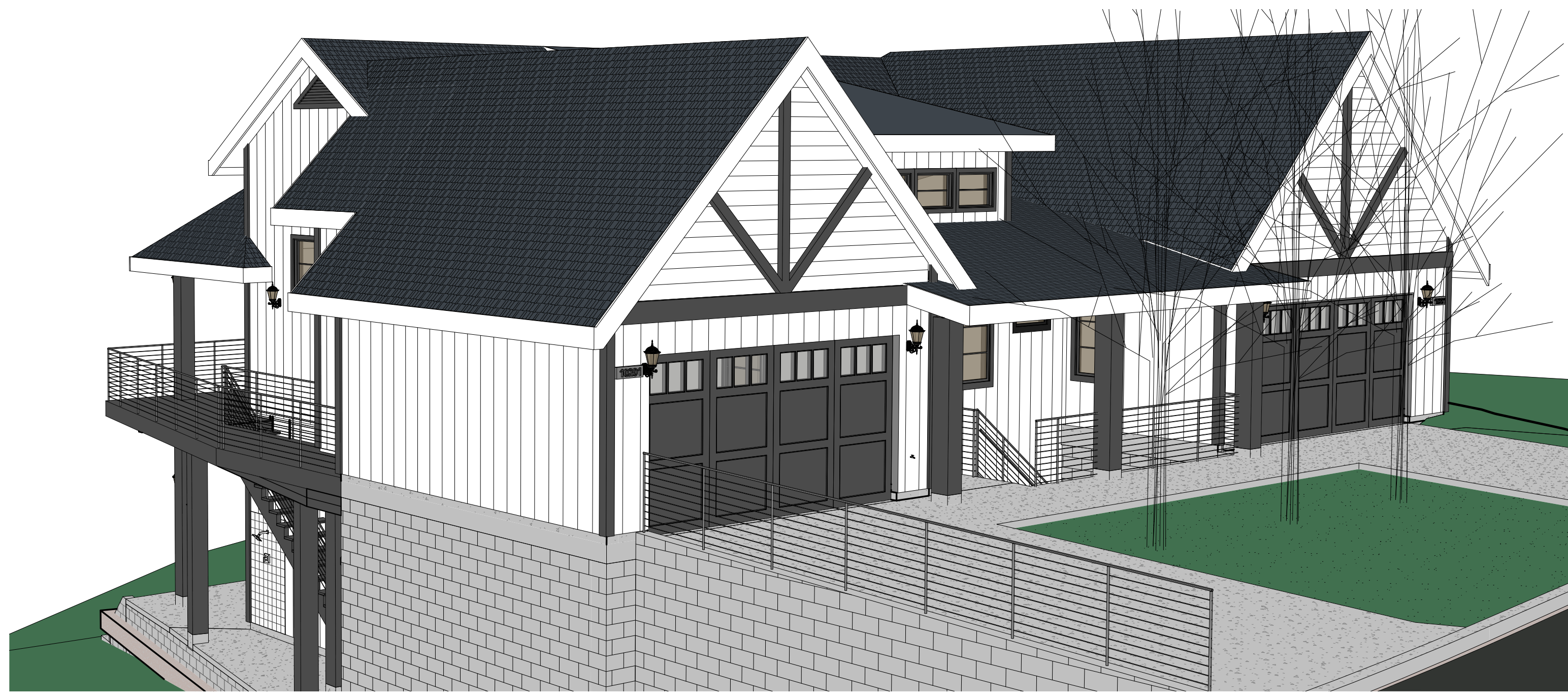


Proposed SFR & ADU For:
Russo Lake House
22412 San Joaquin Drive West, Canyon Lake, CA 92587



Rear View



Front View

Project Information

OWNER: SERINNA & KYLE EASON
23184 CANYON LAKE DRIVE SOUTH
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Building Data

APN: 353-111-010
ZONING: R-1
OCCUPANCY: GROUP R-3 / U
CONSTRUCTION: V-B
FIRE SPRINKLERS: REQUIRED
LEGAL DESCRIPTION: LOT 187, TRACT 3718
PROJECT DESCRIPTION: PROPOSED SFR WITH ATTACHED ADU

Plan Notes

- 2-10 PROPERTY LINE
2-38 PROPOSED TWO-STORY SINGLE FAMILY RESIDENCE
2-240 NEW 4" THICK CONCRETE DRIVEWAY WITH #3 BARS AT 18" ON CENTER EACH WAY IN CENTER OF SLAB
2-251 EXISTING CONCRETE CURB, GUTTER TO REMAIN
2-504 LANDSCAPING AREA
3-65 3-1/2" THICK CONCRETE SLAB ON GRADE WITH MEDIUM BROOM FINISH. SLOPE 1/8" PER FOOT MINIMUM AWAY FROM BUILDING. PROVIDE A LANDING AT ALL DOORS A MINIMUM OF 2' BEYOND EACH SIDE OF DOOR AND A MINIMUM OF 3'-0" OUT FROM FACE OF DOOR.
3-840 CONCRETE STEPS (7 3/4" MAXIMUM RISERS, 10" MINIMUM TREADS)
4-10 8" x 8" x 16" CONCRETE BLOCK (SOLID GROUT ALL CELLS WITH REINFORCING) RETAINING WALL PER STRUCTURAL
15-871 CONDENSING UNIT PROVIDE 3-1/2" THICK POLYETHYLENE PAD EXTENDED 3" MINIMUM ABOVE GROUND PER U.M.C.

General Notes	
Number	Note
1	LUMBER SHALL BE GRADE STAMPED AND CONFORM TO THE FOLLOWING MINIMUM STANDARDS: A) STRUCTURAL LUMBER TO BE WEST COAST DOUG FIR NO. 2 OR BETTER (UNLESS NOTED OTHERWISE) THIS INCLUDES BEAMS, HEADERS, BLOCKING, DIAGONAL BRACES, PLATFORMS, STRINGERS, JOISTS, RAFTERS AND POSTS. (BEAMS 4 x 12 AND LARGER TO BE DOUG FIR #1 & BTR.) B) STUDS MAY BE "CONSTRUCTION GRADE" DOUGLAS FIR OR #1 & BETTER. C) TOP PLATES MAY BE "CONSTRUCTION GRADE" HEM FIR OR DOUGLAS FIR. D) BILL PLATES IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED "WOLMANIZED" OR FOUNDATION GRADE REDWOOD. E) TRUSS MEMBERS AND COMPONENTS SHALL NOT BE CUT DRILLED, NOTCHED, OR OTHERWISE ALTERED IN ANY WAY WITHOUT WRITTEN CONCURRENCE AND APPROVAL OF A REGISTERED DESIGN PROFESSIONAL. 2 STRUCTURAL CONNECTOR REFERENCES ARE TO "SIMPSON STRONG-TIE" CONNECTORS ICC APPROVED 3 NO STRUCTURAL MEMBER SHALL BE SERIOUSLY WEAKENED OR IMPAIRED BY CUTTING OR NOTCHING 4 CONSTRUCTION OF THIS PROJECT SHALL BE IN ACCORDANCE WITH THE CALIFORNIA MODIFIED VERSION (TITLE 24, 2018 EDITION) OF THE FOLLOWING CODES: 2019 CALIFORNIA RESIDENTIAL CODE, (2018 IRC) 2019 CALIFORNIA PLUMBING CODE, (2018 UPC) 2019 CALIFORNIA MECHANICAL CODE, (2018 UMC) 2019 CALIFORNIA ELECTRICAL CODE, (2018 NEC) 2019 CALIFORNIA FIRE CODE, (2018 IFC) 2018 CALIFORNIA ENERGY CODE "AMERICANS WITH DISABILITIES ACT" (ADA) HEALTH AND SAFETY CODE (HSC), SECTION 13145 CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24 2019 CAC ALL OTHER APPLICABLE LAWS AND REGULATIONS 5 DRAINAGE PIPING IN THE GROUND SHALL BE LAID ON A FIRM BED FOR ITS ENTIRE LENGTH AND BACKFILLED IN THIN LAYERS TO 12" ABOVE TOP OF PIPE WITH CLEAN EARTH, FREE FROM STONES AND BOULDERS. DRAIN PIPE SHALL BE A MINIMUM OF 3" DIAMETER WITH 2% MIN. SLOPE. 6 OFFSET PLUMBING OUT OF BEARING FOOTINGS. 7 FIXTURES, DEVICES AND EQUIPMENT SHALL COMPLY WITH APPLICABLE CEC REGULATIONS. 8 FASTENERS FOR PRESERVATIVE TREATED AND FIRE-RETARDANT-TREATED WOOD SHALL BE OF HOT DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. THE COATING WEIGHTS FOR ZINC-COATED FASTENERS SHALL BE IN ACCORDANCE WITH ASTM A 153. FASTENERS OTHER THAN NAILS, TIMBER RIVETS WOOD SCREWS AND LAG SCREWS SHALL BE PERMITTED TO BE OF MECHANICALLY DEPOSITED ZINC-COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH ASTM B 695, CLASS 55 MINIMUM. 9 THE MANUFACTURED WINDOWS SHALL HAVE A LABEL ATTACHED CERTIFIED BY THE NATIONAL FENESTRATION RATING COUNCIL (NFRC) AND SHOWING COMPLIANCE WITH THE ENERGY CALCULATIONS. 10 APPROVAL OF THESE PLANS BY THE BUILDING DEPARTMENT DOES NOT INCLUDE APPROVAL FOR ANY TYPE OF ALARM SYSTEM THAT MAY BE SHOWN OR REQUIRED. SEPARATE APPROVALS FOR ANY ALARM SYSTEMS MUST BE OBTAINED. 11 ALL STEEL REINFORCEMENT TO COMPLY WITH ASTM-615, GRADE 40 AND 60 12 WALLS AND FENCES ARE TO BE REVIEWED UNDER SEPARATE PERMIT APPLICATION (NOT A PART OF THIS PROJECT)

Deferred Submittal Items			
No.	Item		
1	SITE ITEMS (SCREEN WALLS, FENCE AND GATES, POOLS, SPAS & ACCESSORY STRUCTURES)		
2	FIRE ALARM SYSTEM (IF REQUIRED)		
3	TRUSS DESIGN AND CALC. (TRUSS PLANS AND TRUSS CALCULATION SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT OF RECORD. THE ENGINEER OF RECORD SHALL EITHER STAMP THE TRUSS PLAN OR ISSUE A LETTER OF ACCEPTANCE PRIOR TO SUBMITTAL TO BUILDING DEPARTMENT. ALL DRAG LOADS AND UPLIFT FORCES SHALL BE ACCOUNTED FOR.)		

Special Inspections			
Type of Construction	Test	Continuous Inspection	Periodic Inspection
Epoxy Adhesive			X
Shear Walls w/ fasteners spaced 4" O/C or less			X

STRUCTURAL OBSERVATION PER CBC 1704.5 IS REQUIRED FOR SEISMIC RESISTANCE AND WIND REQUIREMENTS. PRIOR TO COMMENCEMENT OF OBSERVATIONS, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT IDENTIFYING THE FREQUENCY AND EXTENT OF STRUCTURAL OBSERVATIONS. AT THE CONCLUSION OF THE WORK, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFY ANY REPORTED DEFICIENCIES WHICH, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.

LOADING CONDITIONS	
DEAD LOAD:	DEAD LOAD:
COMPOSITION SHINGLES 4.5 PSF	SHEATHING 2.0 PSF
SHITC 2.0 PSF	GYP BOARD 2.0 PSF
FRAMING 3.0 PSF	MISCELLANEOUS 8.0 PSF
INSULATION 1.0 PSF	INSULATION 1.0 PSF
MISCELLANEOUS 7.0 PSF	FRAMING 2.0 PSF
GYP BOARD 2.5 PSF	TOTAL 15.0 PSF
TOTAL 20.0 PSF	LIVE LOAD: 40.0 PSF
LIVE LOAD: 20.0 PSF	W _L = 80.0 PSF
INTERIOR WALLS	EXTERIOR WALLS
DEAD LOAD:	DEAD LOAD:
GYP BOARD 4.0 PSF	STUCCO 10.0 PSF
FRAMING 2.0 PSF	GYP BOARD 2.0 PSF
TOTAL 6.0 PSF	MISC. 2.0 PSF
	FRAMING 2.0 PSF
	TOTAL 16.0 PSF

Second Floor Lateral Analysis (Seismic) ASCE 7-16 Section 12.8 Lateral Force Procedure	
2300	Floor Area - Including Overhangs (sf)
20	Roof Weight (psf)
10	Wall Height (ft)
12	Average Wall Weight (psf)
60	Length of Building (ft) (North/South Direction)
60	Length of Building (ft) (East/West Direction)
21	Height of Building From This Floor to Ridge (ft)
250	Length of All Walls (Interior & Exterior, One Direction - ft)
93,000 #	Seismic Load (lbs)
2320	Floor Area - Including Overhangs (sf)
15	Floor Weight (psf)
12	Wall Height (ft)
12	Average Wall Weight (psf)
60	Length of Building (ft) (North/South Direction)
60	Length of Building (ft) (East/West Direction)
21	Height of Building From This Floor to Ridge (ft)
250	Length of All Walls (Interior & Exterior, One Direction - ft)
63,600 #	Seismic Load (lbs)

First Floor Lateral Analysis (Seismic)	
2320	Floor Area - Including Overhangs (sf)
15	Floor Weight (psf)
12	Wall Height (ft)
12	Average Wall Weight (psf)
60	Length of Building (ft) (North/South Direction)
60	Length of Building (ft) (East/West Direction)
21	Height of Building From This Floor to Ridge (ft)
250	Length of All Walls (Interior & Exterior, One Direction - ft)
63,600 #	Seismic Load (lbs)

Lateral Load in N/S Direction	
(kN/ft)	(lb/ft)
93,000	V ₂ 23 Hgt. (ft)
63,600	V ₁ 12 Hgt. (ft)
156,600	2,902,200
93,000	V ₂ 23 Hgt. (ft)
63,600	V ₁ 12 Hgt. (ft)
156,600	2,902,200

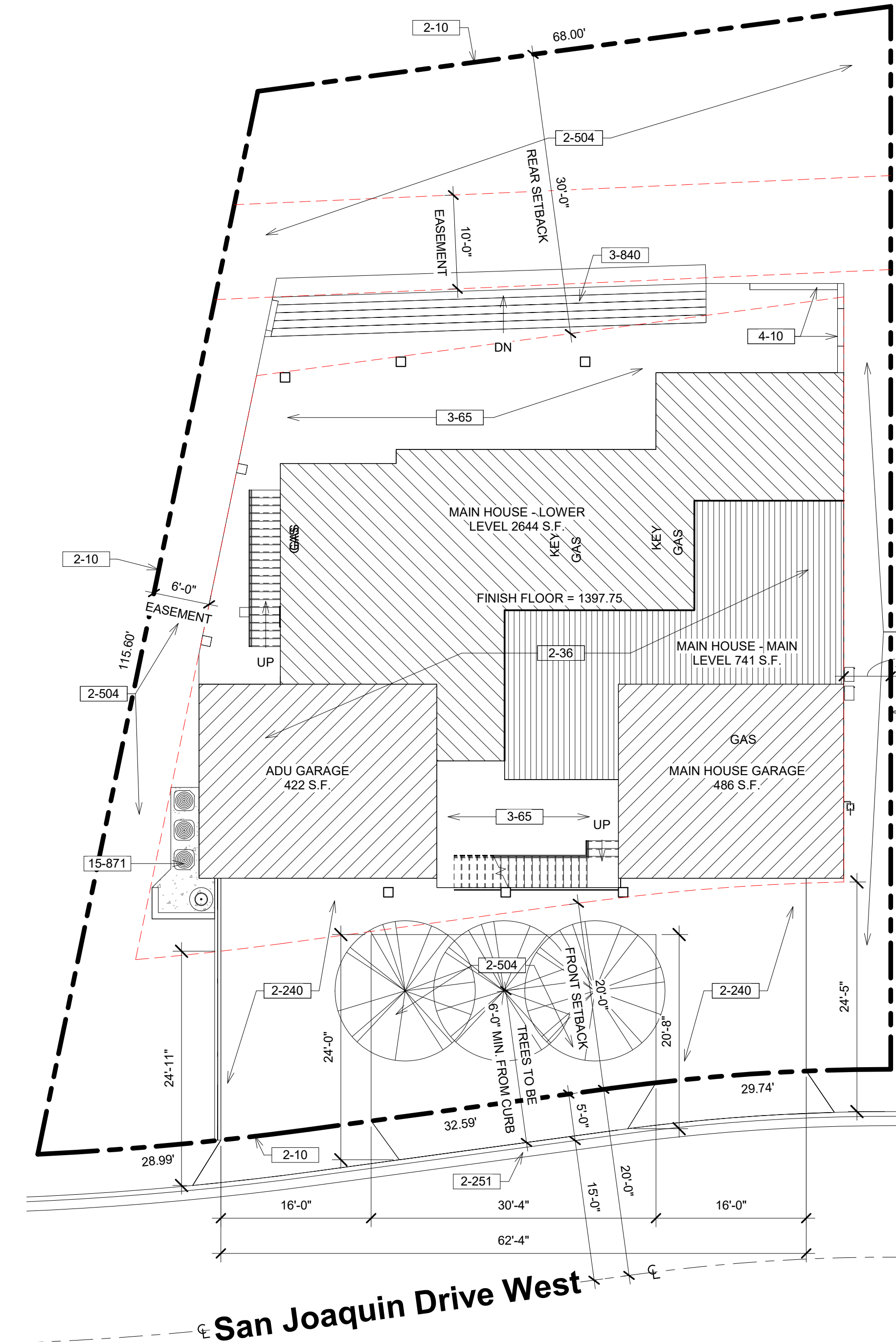
Lateral Load in E/W Direction	
(kN/ft)	(lb/ft)
93,000	V ₂ 23 Hgt. (ft)
63,600	V ₁ 12 Hgt. (ft)
156,600	2,902,200

Two Story Lateral Analysis (Wind) ASCE 7-16 Section 26. Envelope Procedure	
130	Basic Wind Speed (mph) (Fig. 26.5-1)
0.85	Directionality Factor, K _d (Table 26.6-1)
1.00	Risk Factor, I (Table 1.5-2)
1.00	Exposure Category, C (Sec. 26.7)
1.00	Topographic Factor, K _t (Sec. 26.8)
9.5	Terrain Exp. Constant, K _z (Table 26.9-1)
1.35	Adjustment Factor, A (Sec. 26.9)
900	Terrain Exposure Constant, Z _e (ft)
6.85	Coast Factor, C or Cf (Sec. 26.9)
0.18	Enclosure Classification (Sec. 26.10)
A, B, C & D Above	Internal Pressure Coefficient, C _{pi} (Table 26.11-1)
See Below	External Pressure Coefficient, C _{pe} (Fig. 28-6.1)
	Design Wind Load, p = qC _{pe} - qC _{pi} (Eq. 28-4.1)

Building Data	
8.12	Roof Slope (inches per foot)
33.69	Theta θ (degrees)
60	North/South Dimension (ft)
60	East/West Dimension (ft)
27	Mean Roof Height, h (ft)
12	First Floor Plate Height (ft)
10	Second Floor Plate Height (ft)
1	Floor Depth (ft)

North-South Direction	
Location	Wind Pressure Load Load 'to
Wall Above	5.00 24.98 124.92 97.43
Wall Below	7.00 21.28 146.97 116.20
Total (qf)	213.63
Hip Roof	
Location	Wind Pressure Load Load 'to
Wall Above	4.00 19.19 76.74 59.86
Wall Below	5.00 24.98 124.92 97.43
Total (qf)	157.30
Cable Roof	
Location	Wind Pressure Load Load 'to
Wall Above	4.00 24.98 97.93 77.95
Wall Below	5.00 24.98 124.92 97.43
Total (qf)	175.38

When Alternative Basic Load Combination, Sec. 1605.3.2 is used, the wind load is magnified by 0.6 or 0.78. Since all internal wind pressures for enclosed buildings act equally on all the internal surfaces (equally and in opposite directions) these pressures cannot each other out in the lateral directions only. Net uplift pressures acting on components to be analyzed and designed separately.



Site Plan

1" = 10'-0"

FRONT SETBACK COVERAGE

CONCRETE AREA: 887 SF
LANDSCAPE AREA: 1,310 SF
TOTAL AREA: 2,197 SF
LANDSCAPE AREA REQUIRED: 732 SF (1/3)
LANDSCAPE AREA PROVIDED: 1,310 SF

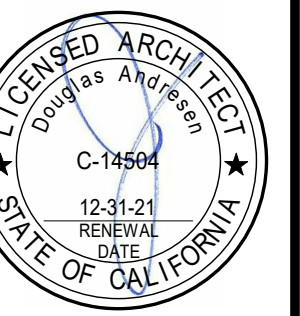
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9 Feb. 2021

19-3654

Site Plan



A-1