NFVA: 177X10=1770 si=12 sf PROVIDED (e) house footprint: 2140 sf GEOLOGICAL REPORT & RESUBMITTAL OF PLANS TO PLAN CHECK TO VERIFY THAT total (e) impervious area: 4140 sf REPORT RECOMMENDATIONS HAVE BEEN new impervious area: 3156 sf INCORPORATED MAY BE REQUIRED. total disturbed area: 3156 sf THE INSPECTOR WILL RECHECK FOR **EXPANSIVE SOILS AND/OR GRADING** 8% TYP. CLASS A REQUIREMENTS AT FIRST FOUNDATION built up ROOFING INSPECTION icc: ESR-1274 - GAF Roofing CENTER LINE OF THORN **ROOF PLAN** SCALE: 1"=20' PL 61.2° 9 EAVE PROJECTIONS MAY NOT ENCROACH MORE THAN 2' INTO ALL REQUIRED YARDS |WM-1,4,5,6,8,9|addition (e) house 20'-0" b CENTER LINE OF UPAS LN NORTH 2 SITE PLAN SCALE: 1"=20'

VENTED RAFTER AREA: 1750 SF, REQUIRED VENT:

CS2021-FF 5.5"w x 120"l, NFVA 177 SI, total 10

1750/150=11.6 SF

BRANDGUARD

PROVIDED VENT: 12 SF

occupancy:R-3 Number of stories:2 year built of existing house: 1939 OWNER: michael gilas and julia gilas **TEL:** 858-888-2135

THE STRUCTURE WILL BE LOCATED ENTIRELY

IF THE BUILDING INSPECTOR SUSPECTS FILL

INSTABILITY BASED UPON OBSERVATION OF

THE FOUNDATION EXCAVATION. A SOILS OR

ON NATIVE UNDISTURBED SOIL

(e) paving/driveway:2000 sf

EXPANSIVE SOILS OR ANY GEOLOGIC

TOTAL SQUARE FOOTAGE OF LAND **DISTURBANCE ACTIVITY: 2906 SF**

THE PROPERTY IS SERVICED BY propane

NO LANDSCAPING PROPOSED

SURFACE WATER WILL DRAIN AWAY FROM BUILDING AND SHOW

FROM PROPERTY LINE

Building Code 91.1.107.2)"

DRAINAGE PATTERN. THE GRADE SHALL FALL A MINIMUM OF 6" WITHIN

All proposed buildings, structures, additions, modifications to buildings/structures

of the County, the property owner may be required to provide proof of current

placement of each on the parcel. This may include a stamped and signed

certificate prepared by a California lieensed surveyor or civil engineer. (County

approved location, as shown on the County approved Plot Plan. At the discretion

THE FIRST 10 FEET. IT DOES NOT APPLY WHEN STRUCTURE IS AT 5'

SCOPE OF WORK:

remodel and addition

A.P.N # 2701411600

LEGAL DESCRIPTION: SEC 6-13-2W*SEQ*BLK 77 LOTS 1&2 IN MAP 1841&DOC99-077982 IN

ADDRESS: 9703 Upas Ln, Escondido, CA 92029

CONSTRUCTION TYPE: V-B

SITE DATA: existing lot: 30492 sq ft existing living area: 1344 sf

new deck: 1500 sf

remodel: 1344 SF addition: 1656 SF TOTAL LIVING SPACE AFTER REMODEL: 3000 SF

EXISTING HOUSE IS NOT FIRE SPRINKLERED

THE CALCULATION IS BASED ON THE EXTERIOR DIMENSION OF THE OUTSIDE WALLS

BMP LEGEND

PDS 659 BROW DITCH \Longrightarrow PDS 659 BERM \longrightarrow B DIRECTION OF LOT DRAINAGE -> MATERIALS & WASTE MANAGEMENT BMPs: MATERIAL DELIVERY & STORAGE SPILL PREVENTION AND CONTROL CONCRETE WASTE MANAGEMENT SOLID WASTE MANAGEMENT SANITARY WASTE MANAGEMENT HAZARDOUS WASTE MANAGEMENT TEMPORARY RUNOFF CONTROL BMPs: SS-2 PRESERVATION OF EXISTING PEV-PEV-SS-3 BONDED OR STABILIZED FIBER MATRIX \sim M \sim M \sim HYDROSEEDING (SUMMER) ✓ TSP ✓ TSP ✓ SS-6 / SS-8 STRAW OR WOOD MULCH ~ S/W ~ S/W ~ SS-7 PHYSICAL STABILIZATION (WINTER) SBM EBM SS-10 ENERGY DISSIPATOR SC-1 SILT FENCE — SC-2 / PDS 659 SEDIMENT / DESILTING BASIN SC-5 FIBER ROLLS —FR—FR— SC-6 / SC-8 GRAVEL OR SAND BAGS COCCO STREET SWEEPING AND VACUUMING SC-7 SC-10 STORM DRAIN INLET PROTECTION DEWATERING FILTRATION — (DW)—(DW)— STABILIZED CONSTRUCTION ENTRANCE TC-2 CONSTRUCTION ROAD STABILIZATION TC-3 ENTRANCE / EXIT TIRE WASH BASELINE BMPs FOR EXISTING AND PROPOSED SITE FEATURES SD-B DIRECT RUNOFF TO PERVIOUS AREAS SD-C INSTALL GREEN ROOF THIS IS A SAMPLE ONLY. SEE COUNTY OF SAN DIEGO STORMWATER BEST SD-E INSTALL RAIN BARRELS SD-G CONSERVE NATURAL FEATURES REFERENCE GUIDE (PUBLICATION PDS 143) FOR ALTERNATE STORMWATER MEASURES. YOUR PROJECT MAY NOT SD-H PROVIDE BUFFERS AROUND WATER BODIES SD-I CONSTRUCT SURFACES FROM PERMEABLE MATERIALS USE ALL OF THE BMP MEASURES SHOWN OR MAY REQUIRE ALTERNATE SD-K SUSTAINABLE LANDSCAPING

required special features: INSULATION BELOW ROOF DECK northwest energy efficiency alliance rated heat pump water heater, specific brand/model, or equivalent must be installed

SC-A OVERHEAD COVERING

SC-C WIND PROTECTION

SC-D SANITARY SEWER

D FUELING

SC-E CONTAINMENT SYSTEM

POTENTIAL RUNOFF POLLUTANTS:

A TRASH & REFUSE STORAGE

C LOADING & UNLOADING

B MATERIALS & EQUIPMENT STORAGE

BASELINE BMPs FOR POLLUTANT-GENERATING SOURCES

SC-B SEPARATION OF FLOWS FROM ADJACENT AREAS

MANAGEMENT PRACTICES -

ADDITONAL BMP TYPES GIVEN

F VEHICLE & EQUIPMENT CLEANING

PROJECT SPECIFICS.

G OTHER

E MAINTENANCE & REPAIR

HERS FEATURE SUMMARY: ADU: Indoor air quality (IAQ) mechanical ventilation Kitchen range hood

Verified heat pump rated heating capacity

Properly completed and signed Certificates of Installation (CF2R forms) shall be provided to the inspector in the field. For projects requiring HERS verification, the CF2R forms shall be registered with a California-approved HERS provider data registry. Properly completed Certificates of Verification (CF3R forms) shall be provided to the inspector in the field for items requiring HERS verification. CF3R forms shall

be registered with a California-approved HERS provider data registry

SHEET INDEX

A1 SITE PLAN / TITLE SHEET

A2 FLOOR PLANS A3 FLOOR PLANS

T24 TITLE 24

SN-1 STRUCTURE NOTES

S-1 STRUCTURE PLANS SD-1 STRUCTURE PLANS

CS-1 COUNTY SPEC

THIS PROJECT SHALL COMPLY WITH THE FOLLOWING CODES AND ASSOCIATED COUNTY OF SAN DIEGO AMENDMENTS:

2022 California Residential Code 2022 CALIFORNIA BUILDING CODE

2022 California Electrical Code (CEC). Part 3, Title 24, CCR) (Part 4, Title 24, CCR) 2022 California Mechanical Code (CMC).. 2022 California Plumbing Code (CPC)... (Part 5, Title 24, CCR) .. (Part 6, Title 24, CCR) 2022 California Energy Code.. 2022 California Fire Code (CFC).. . (Part 9, Title 24, CCR)

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE(CALGREEN)

2022 California Referenced Standards Code....

STORM WATER QUALITY NOTES

CONSTRUCTION BMP'S THIS PROJECT SHALL COMPLY WITH ALL REQUIREMENTS OF THE MUNICIPAL PERMIT ISSUED BY SAN DIEGO REGIONAL WATER QUALITY CONTROL BOARD (SDRWQCB) AND MUNICIPAL STORM WATER NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT ON JANUARY 24,

(HTTP://DOCS.SANDIEGO.GOV/MUNICODE/MUNICODECHAPTER14/CH14/CH14ART02DIVISION02.PDF & STORM WATER MANUAL

. (Part 12, Title 24, CCR)

HTTP://WWW.SANDIEGO.GOV/DEVELOPMENT-SERVICES/PDF/NEWS/STORMWATERMANUAL.PDF) NOTES BELOW REPRESENT KEY MINIMUM REQUIREMENTS FOR CONSTRUCTION BMP'S. 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF ALL SILT & MUD ON ADJACENT STREET(S), DUE TO CONSTRUCTION VEHICLES OR ANY OTHER CONSTRUCTION ACTIVITY, AT THE END OF EACH WORK DAY, OR AFTER A STORM EVENT THAT CAUSES A BREECH IN INSTALLED CONSTRUCTION BMP'S WHICH MAY COMPROMISE STORM WATER QUALITY WITHIN ANY STREET (S). A STABILIZED CONSTRUCTION EXIT MAY BE REQUIRED TO PREVENT CONSTRUCTION VEHICLES OR EQUIPMENT FROM TRACKING MUD OR SILT ONTO THE STREET.

2. ALL STOCKPILES OF SOIL &/OR BUILDING MATERIALS THAT ARE INTENDED TO BE LEFT FOR A PERIOD GREATER THAN 7 CALENDAR DAYS ARE TO BE COVERED. ALL REMOVABLE BMP DEVICES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN 5 DAY RAIN PROBABILITY FORECAST EXCEEDS 40%.

3. A CONCRETE WASHOUT SHALL BE PROVIDED ON ALL PROJECTS WHICH PROPOSE THE CONSTRUCTION OF ANY CONCRETE IMPROVEMENTS WHICH ARE TO BE POURED IN PLACE ON

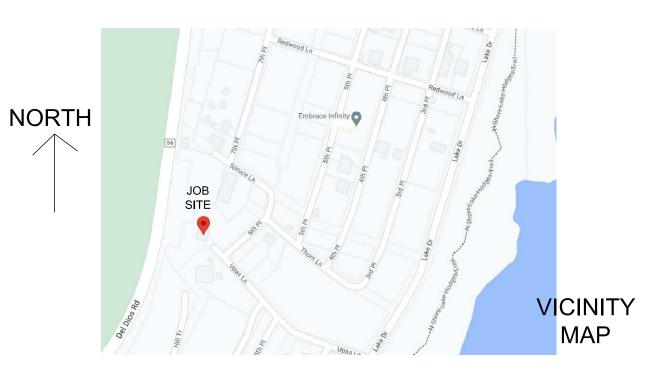
4. THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL DEVICES TO WORKING ORDER AFTER EACH RUN-OFF PRODUCING RAINFALL OR AFTER ANY MATERIAL BREACH IN

5. ALL SLOPES THAT ARE CREATED OR DISTURBED BY CONSTRUCTION ACTIVITY MUST BE PROTECTED AGAINST EROSION AND SEDIMENT TRANSPORT AT ALL TIMES. 6. THE STORAGE OF ALL CONSTRUCTION MATERIALS AND EQUIPMENT MUST BE PROTECTED

AGAINST ANY POTENTIAL RELEASE OF POLLUTANTS INTO THE ENVIRONMENT. UPDATED 10/04/2013

ALL EXISTING "NONCOMPLIANT" FIXTURES (TOILETS THAT USE MORE THAN 1.6 GALLONS OF WATER PER FLUSH, URINALS THAT USE MORE THAN ONE GALLON OF WATER PER FLUSH,

THAT HAVE A FLOW CAPACITY OF MORE THAN 2.5 GALLONS OF WATER PER MINUTE, AND INTERIOR FAUCETS THAT EMIT MORE THAN 2.2 GALLONS OF WATER PER MINUTE) SHALL BE REPLACED. CERTIFICATION OF COMPLIANCE SHALL BE GIVEN TO THE BUILDING INSPECTOR PRIOR TO FINAL PERMIT APPROVAL. CALIFORNIA SB407



PROJECT TITLE

REMODEL AND ADDITION

9703 Upas Ln, Escondido, CA 92029

NO.	REVISIONS	DATE	NO.	REVISIONS	DATE

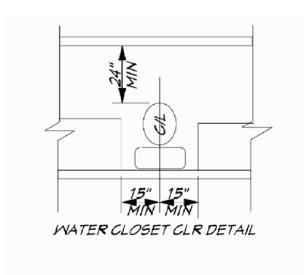
DRAWING TITLE

PROJECT DATA/ SITE PLAN

DESIGNED	PROJECT NO.
	Project Number
DRAWN	SCALE
Prod. Team	
CHECKED	DRAWING NO.
QC	A-1
DATE	A- I
Submittal Date	OF

ENTIRE LOT IS FUEL MODIFIED

NEW WINDOWS U VALUE: 0.3 SHGC: 0.23 RADIANT BARRIER SHALL BE INSTALLED BELOW ROOF DECK AND ON ALL GABLE END WALLS



CARBON MONOXIDE

ELECTRICAL LEGEND

HIGH EFFICACY ELECTRICAL OUTLET SWITCH CEILING LIGHT FLOOD LIGHT 1/2 HALF-HOT OUTLET (SWITCHED) 3-WAY SWITCH RECESSED LIGHT SO SMOKE DETECTOR DIMMER SWITCH JUNCTION BOX Fafi aflounder WALL MOUNTED LIGHT @ VENT FAN TELEVISION CABLE OUTLET CEILING FAN ©O VENTFAN/ HEAT LIGHT TELEPHONE JACK FLUORESCENT FIXTURE —□ ETHERNET

38, EXHAUST DUCTS AND DRYER VENTS SHALL BE EQUIPPED WITH BACK DRAFT DAMPERS.

39, VENTS PROHIBITED IN EAVES, EAVE OVERHANGS, SOFFITS, OR CORNICES. (COUNTY BUILDING CODE 92.1.706A.2) EXCEPTION: APPROVED VENTS RESISTING INTRUSION OF FLAMES AND EMBERS EXCEPTION: GABLE-END VENTS ALLOWED IF LOCATED MINIMUM 12 INCHES BELOW LOWEST EAVE/RAKE PROJECTION

EXCEPTION: AS ALLOWED BY BUILDING OFFICIAL AND LOCAL FIRE AUTHORITY AND PER EAVE DETAILS IN FORM PDS #198

glazed openings within exterior garage doors, and exterior structural glass veneer complying with one of the following:

(County Building Code 92.1.70BA.2): Note: Please update notes.

MUlti-pane glazing with a minimum of one tempered pane meeting the requirements of

Section 2406 Safety
Glazing, and where any glazing frames made of vinyl materials shall have welded corners, metal reinforcement in interlock area, and be certified to AAMAIWDMA/CSA 101/1.S.2/A440

41, EXTERIOR DOORS COMPLYING WITH ONE OF THE FOLLOWIN G. (COUNTY BUILDING CODE 92.1.708A.3):

a. EXTERIOR SURFACE OR CLADDING OF NONCOMBUSTIBLE OR

40, exterior windows, exterior glazed doors, glazed openings within exterior doors,

IGNITION-RESISTANT MATERIAL
b, Solid-core wood minimum 1 -3/8 inches thick complying with the following:
1. Stiles and rails minimum 1-3/8 inches thick.

c. Minimum 20-minute fire-resistance-rated when tested per NFPA 252

2. Raised panels minimum 1-1/4 inches thick
Exception: Exterior perimeter of raised panel may taper to a tongue minimum 3/8 inches

31,JOINTS AND OPENINGS, ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS, OR OTHER OPENINGS IN PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY OR SIMILAR METHOD ACCEPTABLE TO THE ENFORCING AGENCY

32,A MINIMUM OF 50 PERCENT OF THE CONSTRUCTION WASTE GENERATED AT THE SITE IS DIVERTED TO RECYCLE OR SALVAGE PER SECTION 4.408.1 AND CITY ORDINANCE

33, BEFORE FINAL INSPECTION, A COMPLETE OPERATION AND MAINTENANCE MANUAL SHALL BE PROVIDED TO THE BUILDING OCCUPANT OR OWNER. CONTRACTOR OR OWNER SHALL SUBMIT AN AFFIDAVIT THAT CONFIRMS THE DELIVERY OF SUCH. (SECTION 4.410.1)". A SAMPLE OF THE MANUAL IS AVAILABLE ON THE HOUSING AND COMMUNITY DEVELOPMENT (HCD) WEB SITE

34, LIGHTING IN BATHROOMS SHALL HAVE ALL HIGH EFFICACY LUMINAIRE AND AT LEAST ONE LUMINAIRE MUST BE CONTROLLED BY A VACANCY SENSOR.

35 , not used

36, ALL PLUMBING FIXTURES AND FITTINGS WILL BE WATER CONSERVING AND WILL COMPLY WITH THE 2016 CGBSC"

37, PROVIDE LAVATORY FAUCETS WITH A MAXIMUM FLOW OF 1.2 GALLONS PER MINUTE

Exception: Hallways
Outdoor lighting permanently mounted to building shall be controlled by one of the

Photocontrol and motion sensor

Photocontrol and automatic time-switch control
 Astronomical time clock

27,AUTOMATIC IRRIGATION SYSTEMS CONTROLLERS INSTALLED AT THE TIME OF FINAL INSPECTION SHALL BE WEATHER— BASED.

28,ALL WATER CLOSETS SHALL HAVE AN EFFECTIVE FLUSH VOLUME OF NOT MORE THAN 1.28 GALLONS PER FLUSH. TANK TYPE WATER CLOSET SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK—TYPE TOILETS. URINALS, SHALL HAVE AN EFFECTIVE FLUSH VOLUME NOT TO EXCEED 0.5 GALLONS PER FLUSH

29, FAUCETS, RESIDENTIAL LAVATORY FAUCETS SHALL HAVE A MAXIMUM RATE OF 1.2 GALLONS PER MINUTE AT 60 PSI AND A MINIMUM FLOW RATE OF NOT LESS THAN 0.8 GALLONS PER MIN. AT 20 PSI.
FAUCET IN COMMON AND PUBLIC USE AREAS (OUTSIDE OF DWELLINGS OR SLEEPING UNITS) IN RESIDENTIAL BUILDINGS MUST HAVE A MAXIMUM FLOW RATE OF 0.5 GALLONS PER MINUTE AT 60 PSI.
METERING FAUCETS WHEN INSTALLED IN RESIDENTIAL BUILDINGS MUST NOT

DELIVER MORE THAN 0.25 GALLONS PER CYCLE.

30, A PLUMBING FIXTURE CERTIFICATION MUST BE COMPLETED AND SIGNED BY EITHER A LICENSED GENERAL CONTRACTOR, OR A PLUMBING SUBCONTRACTOR, OR THE BUILDING OWNER CERTIFYING THE FLOW RATE OF THE FIXTURES INSTALLED. A COPY OF THE CERTIFICATION CAN BE OBTAINED FROM THE DEVELOPMENT SERVICES DEPARTMENT

50'-0" 17'-0" 17'-8**"** 14'-0" 10' H RETAINING WALL HEATPUMP HOOD 3060 280 CFM BEDROOM 3060 S.H. KITCHEN 2668 w.p. LIVING ROOM 6'x3' LANDING solid 200A temp 14'x11.5' 14'x11.5' 14'x11.5' ELEC SLIDING DOOR temp window PANEL SLIDING DOOR temp 14'-0" 12'-0" 14'-0" 14'x3' 14'x3' 14'x3' car charger LANDING LANDING LANDING MIN. MIN. 2% PATIO 12'-0" 10'-0" 7'-8"

PROPOSED 1st FLOOR PLAN (1500 SF)

3/16"=1'-0"

— NORTH

50'-0" 17'-0" 14'-8" 17'-0" jacuzzi/soa office ÓŎ. 2668 UP 4'-0" \$\$ pony wall 8' \$\$ pony wall 8' 42" W.I. railing BEDROOM BEDROOM lacktriangledownCO SI temp glass wall 14'x11.5' 14'x11.5' SLIDING DOOR temp SLIDING DOOR temp 14'x11.5' Dex-0-Tex - Flooring & Waterproofing 2% Dex-O-Tex,ICC: ESR-1757. jacuzzi 42" W.I. railing

PROVIDE VENT UNDER DECK SOFFIT VENTED DECK RAFTER AREA: 750 SF, REQUIRED VENT: 750/150=5 SF

PROVIDED VENT : 5 SF BRANDGUARD CS2021-FF 5.5"w x 120"l, NFVA 177 Sl, total 4 provided

NFVA: 177X4=720 si=5 sf PROVIDED

PROPOSED 2nd FLOOR PLAN (1500 SF)



NOTE:

1, IN SHOWERS AND TUB-SHOWER COMBINATIONS, CONTROL VALVES MUST BE
2 Shall be controlled by one of the PRESSURE BALANCED OR THERMOSTATIC MIXING VALVES. 2.0 GPM.

2, NEW WATER CLOSET AND ASSOCIATED FLUSHMETER VALVES, SHALL USE NO MORE THAN 1.28 GALLONS PER FLUSH AND SHALL MEET PERFORMANCE STANDARDS ESTABLISHED BY ANSI STANDARD A112.19.2

a) IN BATHROOMS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS ALL FIXTURES MUST BE HIGH EFFICACY STYLE OR BE CONTROLLED BY A MANUALLY—ON OCCUPANCY SENSOR.

NOTE: GENERALLY A HIGH EFFICACY STYLE OF FIXTURE IS FLUORESCENT

COMPLETE WITH ELECTRONIC BALLASTS. REGULAR INCANDESCENT, QUARTZ

HALOGEN AND HALOGEN MR LAMPS DO NOT COMPLY.

4, ALL ABS AND PVC PIPING AND FITTINGS SHALL BE ENCLOSED WITHIN WALLS AND FLOORS COVERED WITH TYPE X GYP. BD. OR SIMILAR ASSEMBLIES THAT PROVIDES THE SAME LEVEL OF FIRE PROTECTION.

PROTECTION OF MEMBRANCE PENETRATIONS IS NOT REQUIRED.

5. SMOKE ALARM WILL BE INSTALLED ACCORDING TO THE 2016 CRC SECTION R314

6, CARBON MONOXIDE ALARMS WILL BE INSTALLED ACCORDING TO THE 2016 CRC SECTION 315

7, TAMPER RESISTANT RECEPTACLES ARE REQUIRED EVERYWHERE IN DWELLING UNITS PER THE 2016 CEC ARTICLE 406.11 TAMPER RESISTANT RECEPTABLES IN DWELLING UNITS.

8, PLUMBING FIXTURES MUST MATCH THE CURRENT 2016 CPC SECTION 402 WATER-CONSERVING FIXTURES AND FITTINGS.

9, NOT USED

10,Bathtub and shower floors and walls above bathtubs with installed shower heads and in shower compartments shall be finished with a nonabsorbent surface. Such wall surfaces shall extend to a height of not less than 6 feet above the floor.

11,provide landing fo all exterior doors . The minimum depth is 36"; the minimum width is equal to the width of the door; and the maximum drop is 7 ¾" Exterior.landings shall have a slope not to exceed ¼ units vertical in 12 units horizontal (2-percent).

12,All smoke alarms shall be listed in accordance with UL 217 and installed in accordance with the provisions of the governing CRC and the household fire warning equipment provisions of NFPA 72. Systems and components shall be California State Fire Marshal listed and approved in accordance with CCR, Title 19, Division 1 for the purpose for which they are installed.

13,Single- and multiple-station carbon monoxide alarms shall be listed as complying with the requirements of UL 2034. Carbon monoxide detectors shall be listed as complying with the requirements of UL 2075.

14, where more than one smoke alarm is required to be installed within an 15, Milieite union withing one to the charmodexides at and be required to be installed within an unitainthenew the charmodexides at a civation of one alarmit with wates the printegral thres that the shall be and onnected in a manner that activation of one alarm shall activate all of the alarms in the individual unit.

16,Smoke alarms shall receive their primary power from the building wiring provided that such wiring is served from a commercial source and shall be equipped with a battery back-up. Smoke alarms

with integral strobes that are not equipped with battery backup shall be connected to an emergency electrical system. Smoke alarms shall emit a signal when the batteries are low

17, Carbon monoxide alarms shall receive their primary power from the building wiring where such wiring is served from a commercial source and shall be

a commercial source and shall be equipped with a battery back-up. Alarm wiring shall be directly connected to the permanent building wiring without a disconnecting switch other than as required for overcurrent protection

18, Provide lavatory faucets with a maximum flow of 1.2 gallons per minute (GPM).
19, "Provide shower heads with a maximum flow of 2.0 gallons per minute

(GPM)
20, Permanent vaccum breakers shall be included with all new hose bibbs.
21, Provide ultra low flush toilets

22, Provide 5 air changes per hour for bathroom and laundry room ventilation.

24, all Plumbing Fixtures and Fittings will be water conserving

and will comply with the 2016
CGBSC Sec. 4.303.1
25 PER 2016 CGBSC PLUMBING FIXTURES (WATER CLOSETS AND

25, PER 2016 CGBSC, PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL BE INSTALLED IN AC?ORDANCE WITH THE CALIFORNIA PLUMBING CODE (CPC). 26, PER 2016 GREEN CODE, MECHANICAL EXHAUST FANS WHICH EXHAUST DIRECTLY FROM BATHROOMS SHALL COMPLY WITH THE FOLLOWING: 1. FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING.

2. UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY A HUMIDISTAT WHICH SHALL BE READILY ACCESSIBLE. HUMIDISTAT CONTROLS SHALL BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF 50 TO 80 PERCENT."

26, Proposed design shall comply with the following lighting measures:a. Mandatory (CBEES 1S0.0(k)):o All luminaires shall be high-efficacy in accordance with CBEES Table

150.0-A

All LED luminaires and lamps shall be marked "JA8-2019" and listed in the California Energy Commission

database at https://cacertappliances.energy.ca.gov/Pages/ApplianceSearch.aspx o All recessed downlight and enclosed luminaires shall be marked "JAB-2019-E" and listed in the California

Energy Commission database at

https:/Icacertappliances.energy.ca.gov/Pages/ApplianceSearch.aspx

Recessed downlight luminaires in ceilings shall not be screw-based o Bathrooms, garages, laundry rooms, and utility rooms: At least one

Iuminaire in each space shall be controlled by a vacancy sensor o All luminaires requiring "JAB-2019" or "JA8-2019-E" marking shall be

PROJECT TITLE Exception: Closets less than 70 s. f.

REMODEL AND ADDITION

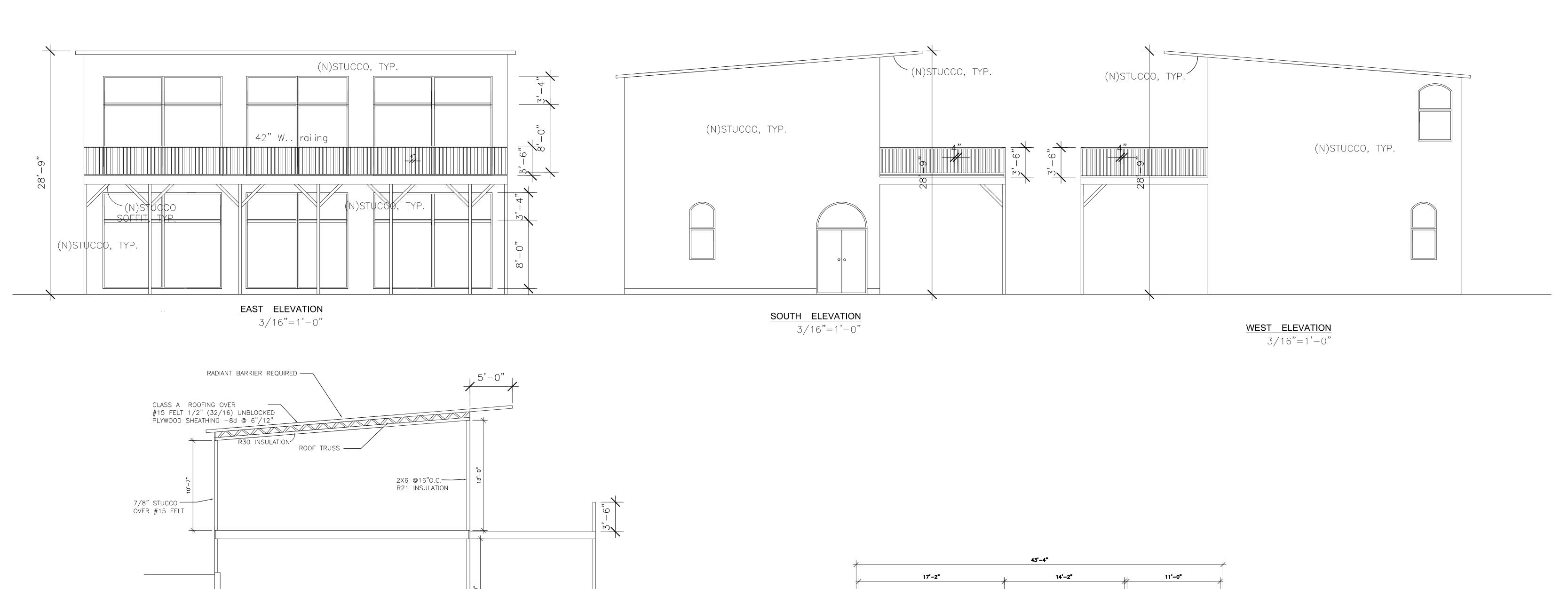
9703 Upas Ln, Escondido, CA 92029

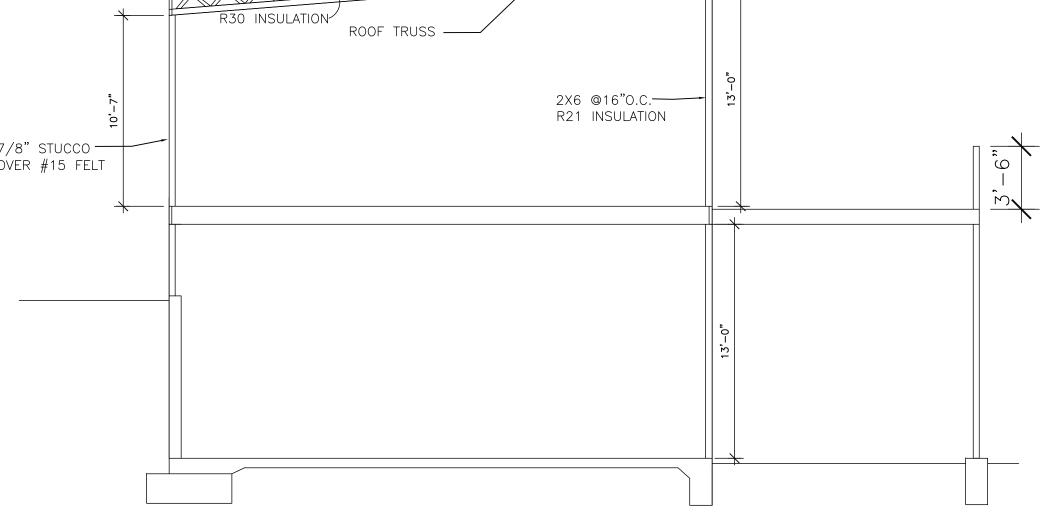
NO.	REVISIONS	DATE	NO.	REVISIONS	DATE

DRAWING TITLE

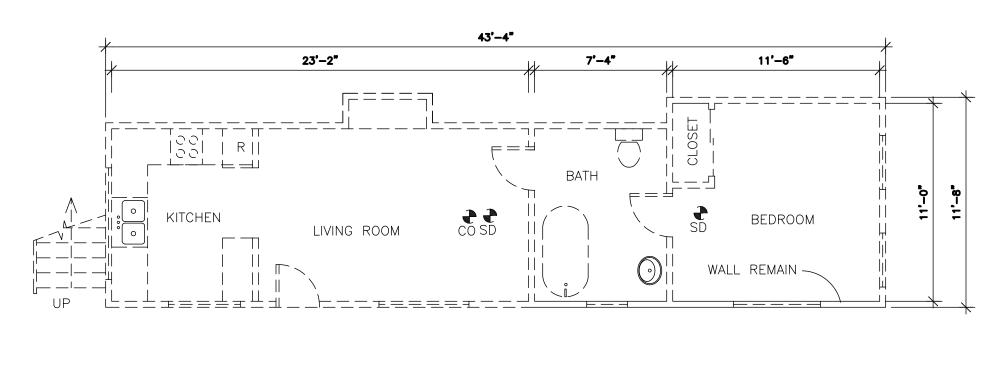
FLOOR PLANS

DESIGNED	PROJECT NO.
	Project Number
DRAWN	SCALE
Prod. Team	
CHECKED	DRAWING NO.
QC	A-2
DATE	A-2
Submittal Date	OF



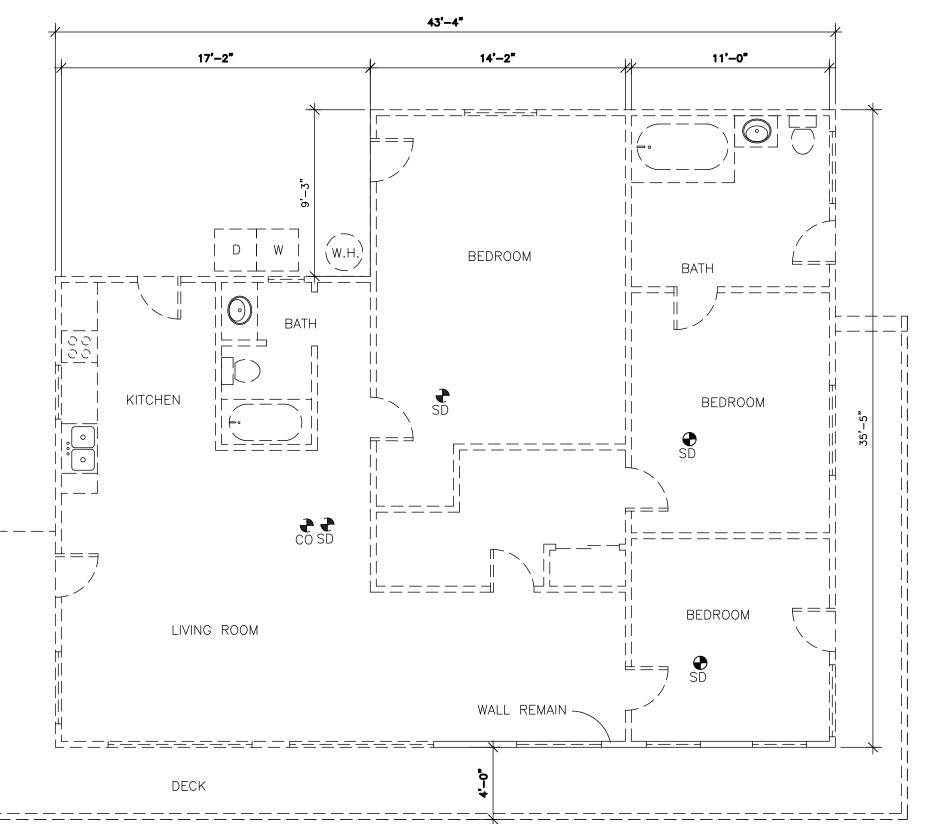


 $\frac{\text{BUILDING SECTION}}{3/16"=1'-0"}$



3/16"=1'-0"

EXISTING SECOND FLOOR PLAN EXISTING FIRST FLOOR PLAN 3/16"=1'-0"



PROJECT TITLE REMODEL AND ADDITION

9703 Upas Ln, Escondido, CA 92029

NO.	REVISIONS	DATE	NO.	REVISIONS	DATE
INO.	IVEVISIONS	DATE	INO.	INLVISIONS	DATE

DRAWING TITLE **PLANS**

DESIGNED	PROJECT NO.
	Project Number
DRAWN	SCALE
Prod. Team	
CHECKED	DRAWING NO.
QC	A-3
DATE	A-3
Submittal Date	OF
I	

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

CF1R-PRF-01E Calculation Date/Time: 2024-01-23T12:23:07-08:00 Project Name: REMODEL AND ADDITION (Page 1 of 12) Calculation Description: Title 24 Analysis Input File Name: 9703 UPAS LN ESCONDIDO CA 92029.ribd22x

GENERAL INFORMATION Project Name REMODEL AND ADDITION Run Title Title 24 Analysis Project Location 9703 UPAS LN City ESCONDIDO Standards Version 2022 **Zip code** 92029 l 07 l Software Version EnergyPro 9.2 08 Climate Zone 10 09 Front Orientation (deg/ Cardinal) 180 Building Type Single family Number of Dwelling Units 1 Project Scope Newly Constructed Number of Bedrooms Number of Stories Addition Cond. Floor Area (ft²) 0 Existing Cond. Floor Area (ft²) n/a Fenestration Average U-factor 0.29 Total Cond. Floor Area (ft²) 3000 Glazing Percentage (%) 34.00% ADU Bedroom Count n/a ADU Conditioned Floor Area n/a

COMPLIANCE RESULTS

01 Building Complies with Computer Performance This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider.

03 This building incorporates one or more Special Features shown below

Registration Number: 224-P010010259A-000-000-0000000-0000

CA Building Energy Efficiency Standards - 2022 Residential Compliance

Registration Date/Time: 2024-01-23 13:53:39

HERS Provider: CalCERTS inc.

Report Version: 2022.0.000 Schema Version: rev 20220901 Report Generated: 2024-01-23 12:23:42

CF1R-PRF-01E

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: REMODEL AND ADDITION Calculation Date/Time: 2024-01-23T12:23:07-08:00 Calculation Description: Title 24 Analysis Input File Name: 9703 UPAS LN ESCONDIDO CA 92029.ribd22x

ENERGY USE INTENSITY

	Standard Design (kBtu/ft ² - yr)	Proposed Design (kBtu/ft ² - yr)	Compliance Margin (kBtu/ft ² - yr)	Margin Percentage
Gross EUI ¹	11.8	10.18	1.62	13.73
Net EUI ²	5.91	4.29	1.62	27.41
Notes 1. Gross EUI is Energy Use Total (no	t including PV) / Total Building Area.			

2. Net EUI is Energy Use Total (including PV) / Total Building Area.

REQU	IRED PV SYS	TEMS	A									
	01	02	03	04	05	06	07	08	09	10	11	12
	ystem Size kWdc)	Exception	Module Type	Array Type	Power Electronics	CFI	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)	Annual Solar Access (%)
	3.03	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.

Insulation below roof deck Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater; specific brand/model, or equivalent, must be installed

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

- Indoor air quality ventilatior
- Kitchen range hood Minimum Airflow
- Fan Efficacy Watts/CFM Verified heat pump rated heating capacity Duct leakage testing

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Project Name: REMODEL AND ADDITION Calculation Description: Title 24 Analysis

Input File Name: 9703 UPAS LN ESCONDIDO CA 92029.ribd22x

SLAB FLOORS							
01	02	03	04	05	06	07	08
Name	Zone	Area (ft ²)	Perimeter (ft)	Edge Insul. R-value and Depth	Edge Insul. R-value and Depth	Carpeted Fraction	Heated
Slab-on-Grade	FIRST FLOOR	1500	160	none	0	80%	No

OPAQUE SURFACE CONSTE	RUCTIONS						
01	02	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
R-21 Wall	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O. C.	R-21	21 / None	0.026	Inside Finish: Gypsum Board Sheathing / Insulation: R-21 Sheathing Cavity / Frame: R-21 / 2x6 Exterior Finish: 3 Coat Stucco
Attic RoofSECOND FLOOR	Attic Roofs	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-30	None / 0	0.04	Roofing: 10 PSF (RoofTileAirGap) Tile Gap: present Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: R-13.0 / 2x4 Around Roof Joists: R-17.0 insul.
R-30 Roof Attic	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 16 in. O. C.	R-30	None / None	0.032	Over Ceiling Joists: R-20.9 insul. Cavity / Frame: R-9.1 / 2x4 Inside Finish: Gypsum Board
R-19 Floor No Crawlspace	Interior Floors	Wood Framed Floor	2x6 @ 16 in. O. C.	R-19	None / None	0.049	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: R-19 in 5-1/2 in. (R-18) / 2x6 Ceiling Below Finish: Gypsum Board

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HERS Provider: CalCERTS inc.

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: REMODEL AND ADDITION

Calculation Date/Time: 2024-01-23T12:23:07-08:00

Input File Name: 9703 UPAS LN ESCONDIDO CA 92029.ribd22x Calculation Description: Title 24 Analysis ENERGY DESIGN RATINGS

ENERGY DESIGNATION IN 11005							
		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	33.4	39.6	28.4			`	
Proposed Design	26.4	39.5	28.1	7	0.1	0.3	
		RESULT	r³: PASS				

¹Efficiency EDR includes improvements like a be<mark>tte</mark>r building envelope and more efficient equipment ²Total EDR includes efficiency and demand resp<mark>onse</mark> measures such as photovoltaic (PV) system and batteries

³Building complies when source energy, efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded

PV System resized to 3.03 kWdc (a factor of 3.035) to achieve 'Standard Design PV' PV scaling

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: REMODEL AND ADDITION Calculation Date/Time: 2024-01-23T12:23:07-08:00 Calculation Description: Title 24 Analysis Input File Name: 9703 UPAS LN ESCONDIDO CA 92029.ribd22x

BUILDING - FEATURES INFORMATION

01	02		03	04	05	06	07
Project Name	Conditioned Floor Are	ea (ft²)	Number of Dwellin Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
REMODEL AND ADDITION 30			1	3	2	0	1
ZONE INFORMATION							
01	02		03	04	05	06	07
Zone Name	Zone Type	HVAC S	System Name	Zone Floor Area (ft ²)	Avg. Ceiling Height	Water Heating System 1	Status

01	02	03	04	05	06	07
Zone Name	Zone Type	HVAC System Name Zone Floor Area (ft ²) Avg. Ceiling		Avg. Ceiling Height	Water Heating System 1	Status
FIRST FLOOR	Conditioned	HVAC System1	1500	13	DHW Sys 1	New
SECOND FLOOR	Conditioned	HVAC System1	1500	13	DHW Sys 1	New
					,	
OPAQUE SURFACES						
01	02	03	04 05	06	07	08

01	02	03	04	05	06	07	08
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft ²)	Window and Door Area (ft2)	Tilt (deg)
FRONT WALL	FIRST FLOOR	R-21 Wall	180	Front	390	18	90
LEFT WALL	FIRST FLOOR	R-21 Wall	270	Left	650	0	90
REAR WALL	FIRST FLOOR	R-21 Wall	0	Back	390	18	90
RIGHT WALL	FIRST FLOOR	R-21 Wall	90	Right	650	480	90
FRONT WALL 2	SECOND FLOOR	R-21 Wall	180	Front	390	0	90
LEFT WALL 2	SECOND FLOOR	R-21 Wall	270	Left	650	0	90
REAR WALL 2	SECOND FLOOR	R-21 Wall	0	Back	390	24	90
RIGHT WALL 2	SECOND FLOOR	R-21 Wall	90	Right	650	480	90
Roof	SECOND FLOOR	R-30 Roof Attic	n/a	n/a	1500	n/a	n/a
Interior Surface	FIRST FLOOR	R-19 Floor No Crawlspace	n/a	n/a	1500	n/a	n/a
Interior Surface 2	SECOND FLOOR	R-19 Floor Crawlspace	n/a	n/a	1500	n/a	n/a

Registration Number: 224-P010010259A-000-000-0000000-0000

Calculation Description: Title 24 Analysis

DHW Sys 1

DHW Heater 1

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OPAQUE SURFACE CONSTI	RUCTIONS						
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-19 Floor Crawlspace	Interior Floors	Wood Framed Floor	2x10 @ 16 in. O. C.	R-19	None / None	0.045	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: R-19 / 2x10 Ceiling Below Finish: Gypsum Board

BUILDING ENVELOPE	- HERS VERIFICAT	ION	A								
01			02			03			04		05
Quality Insulation I	nstallation (QII)	High R-va	High R <mark>-value</mark> Spray Foam Insulation			Building Envelope Air Leakage			CFM50		FM50
Not Requ	uired		Not Require	d		N/A			n/a		n/a
		77						140		,	
WATER HEATING SYS	TEMS			Ld		FRI	3. I				
01	02		03	04	R	05	-06) F	07	08	09
Name	Contain Ton	Dist.	aile ation Tone	Mater 11-24	au Nama	November of Unite	Solar Heatin	g	Compact	LIEBS Vauisiantinu	Water Heater

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
				PROPH50 T2			

DHW Heater :

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Water (DHW)

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RH375SO (50 gal,

JA13)

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HERS Provider: CalCERTS inc.

n/a

FIRST FLOOR

DHW Heater 1 (1)

FIRST FLOOR

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Calculation Date/Time: 2024-01-23T12:23:07-08:00 Input File Name: 9703 UPAS LN ESCONDIDO CA 92029.ribd22x Calculation Description: Title 24 Analysis

ENERGY USE SUMMARY Standard Design Source Standard Design TDV Energy Proposed Design Source Proposed Design TDV Energy Compliance Compliance Energy Use (EDR2) (kTDV/ft² -yr) Margin (EDR1) Margin (EDR2) Energy (EDR1) (kBtu/ft² -yr) (EDR2) (kTDV/ft² -yr) Energy (EDR1) (kBtu/ft² -yr) Space Heating 3.21 14.48 1.81 12.36 1.4 2.12 Space Cooling 0.71 18.83 0.83 -0.12 -5.04 0.27 2.79 0.27 2.79 IAQ Ventilation **Water Heating** 0.9 9.08 0.53 5.98 0.37 3.1 Utilization/Flexibilit Credit **Efficiency Compliance** 0.18 -33.21 Photovoltaics -1.16 -32.8 Battery PROV $= P^0$ Flexibility Indoor Lighting 0.65 6.31 0.65 6.31 Appl. & Cooking 1.33 1.33 16.11 16.1 Plug Loads 1.82 18.65 1.82 18.65 0.18 Outdoor Lighting 1.64 0.18 1.64

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7.91

TOTAL COMPLIANCE

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6.26

HERS Provider: CalCERTS inc.

54.49

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: REMODEL AND ADDITION Calculation Date/Time: 2024-01-23T12:23:07-08:00 Calculation Description: Title 24 Analysis Input File Name: 9703 UPAS LN ESCONDIDO CA 92029.ribd22x

02 04 05 06 Name Construction Type Roof Rise (x in 12) Roof Reflectance Roof Emittance Radiant Barrier Cool Roof Attic RoofSECOND Attic SECOND FLOOR

Actic SECOND LE		FLOOR		iateu				0.1		0.03			NO
ENESTRATION / (GLAZING												
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Туре	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-factor	U-factor Source	SHGC	SHGC Source	e Exterior Shading
FRONT WINDOWS	Window	FRONT WALL	Front	180			1	18	0.29	NFRC	0.22	NFRC	Bug Screen
REAR WINDOWS	Window	REAR WALL	Back	0			1	18	0.29	NFRC	0.22	NFRC	Bug Screen
REAR WINDOWS 2	Window	RIGHT WALL	Right	90				160	0.29	NFRC	0.22	NFRC	Bug Screen
SLIDING DOOR	Window	RIGHT WALL	Right	90	1 3		1	320	0.29	NFRC	0.22	NFRC	Bug Screen
REAR WINDOWS 3	Window	REAR WALL 2	Back	0			1	24	0.29	NFRC	0.22	NFRC	Bug Screen
REAR WINDOWS 4	Window	RIGHT WALL 2	Right	90			1	160	0.29	NFRC	0.22	NFRC	Bug Screen
SLIDING DOOR 2	Window	RIGHT WALL 2	Right	90			1	320	0.29	NFRC	0.22	NFRC	Bug Screen

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WATER HEATING - HERS VERIFICATION 03 05 **Compact Distribution** nower Drain Water Heat Pipe Insulation Parallel Piping **Compact Distribution** Recirculation Contro Recovery Not Required DHW Sys 1 - 1/1 Not Required Not Required Not Required None Not Required

SPACE CONDITIONING SYSTEMS Heating Equipment Cooling Equipment leating Unit Name Distribution Name Thermostat Type Count Hea<mark>t Pu</mark>mp System Heat Pump Systen Air Distribution Heat pump HVAC Fan 1 HVAC System1 heating cooling System 1

HVAC - HEAT PUMPS 01

04 05 06 07 13 Heating Efficiency Type HSPF/HS Cap 47 Cap 17 Cooling | SEER/SE | EER/EER | Controlled **HERS Verification** Units Efficiency ER2 2/CEER Heat Pump System HSPF2 7.5 42000 21000 EER2SEER2 14.3 Central split HP Not Zonal System 1 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	Not Required	No	No	Yes	Yes

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Project Name: REMODEL AND ADDITION Calculation Description: Title 24 Analysis

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HVAC - DISTRIBUTIO	N SYSTEMS										
01	02	03	04	05	06	07	08	09	10	11	12
Name	Tuno	Design Type	Duct Ins. R-value Duct Location		Surface Area		Bypass Duct	Duct Leakage	HERS Verification		
Name	Туре	Design Type	Supply	Return	Supply	Return	Supply	Return	Буразз Бист	Duct Leakage	HERS VEHICATION

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

HVAC - FAN SYSTEMS							
01	02	03	04				
Name	Туре	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				

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Dwelling Unit Airflow (CFM) (W/CFM) SFam IAQVentRpt 103

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Project Name: REMODEL AND ADDITION

Calculation Description: Title 24 Analysis

INDOOR AIR QUALITY (IAQ) FANS

01

IAQ Recovery Fan Efficacy Includes Fault IAQ Fan Type Heat/Energy Effectiveness -Indicator Display? SRE/ASRE Recovery? 0.35 Exhaust n/a / n/a No Yes

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Calculation Date/Time: 2024-01-23T12:23:07-08:00

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Calculation Description: Title 24 Analysis	Input File Name: 9703 UPAS LN ESCONDIDO CA 92029.ribd22x
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is accurate a	nd complete.
Documentation Author Name:	Documentation Author Signature:
Lei Huang	Lei Huang
Company:	Signature Date:
Ray Drafting	2024-01-23 13:53:39
Address:	CEA/ HERS Certification Identification (If applicable):
1619 Golden Gate Ave	
City/State/Zip:	Phone:
Chula Vista, CA 91913	858-380-6125
RESPONSIBLE PERSON'S DECLARATION STATEMENT	·
2. I certify that the energy features and performance specifications identified	ccept responsibility for the building design identified on this Certificate of Compliance. fied on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. s Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets,
Responsible Designer Name: Lei Huang	Responsible Designer Signature: Lei Huang
Company: Ray Drafting	Date Signed: 2024-01-23 13:53:39
Address: 1619 Golden Gate Ave	License: 074599
City/State/Zip: Chula Vista, CA 91913	Phone: 858-380-6125

Digitally signed by CalCERTS. 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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CA Building Energy Efficiency Standards - 2022 Residential Compliance

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GENERAL STRUCTURAL NOTES

GENERAL

- CONTRACTORS AT THE JOB SITE, AND SHALL BE RESPONSIBLE FOR CONDITIONS OF ALL WORK AND MATERIALS INCLUDING THOSE FURNISHED BY SUB-CONTRACTORS. STRUCTURAL ENGINEER OF RECORD SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
- ALL MATERIALS AND WORKMANSHIP SHALL BE PERFORMED IN ACCORDANCE WITH 2022 CALIFORNIA BUILDING CODE.
- ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS.
- NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- WHERE NO DETAILS SHOWN OR NOTED ON THE DRAWINGS, THE DETAILS SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.
- OPENINGS, POCKETS, SLEEVES, ETC., SHALL NOT BE PLACED IN SLABS, BEAMS, WALLS, COLUMNS AND FOOTINGS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.
- CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOF. LOADS SHALL NOT EXCEED DESIGN LIVE LOADS FOR EACH PARTICULAR LEVEL. PROVIDE ADEQUATE SHORING AND BRACING IF LOAD EXCEED DESIGN LIVE LOAD OR WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.
- THIS SET OF DRAWINGS REPRESENT THE FINISHED STRUCTURE, METHOD OF CONSTRUCTION NOT NECESSARY INDICATED, THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE. WORKERS AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT NOT BE LIMITED TO BRACING, SHORING, SCAFFOLDING, ETC.

STRUCTURAL DESIGN CRITERIA

- COMPANY: EAST COUNTY SOIL CONSULTATION AND ENGINEERING, INC. ADDRESS: 10925 HARTLEY ROAD SUITE "I"
- SANTEE, CA 92071 TEL: (619) 258-7901 PROJECT NO.: 23-1149D3

DATE: DEC. 1, 2023

- SOILS BEARING PRESSURE = 2,000 p.s.f.
- FOUNDATION DESIGN SHALL BE 18" MIN. DEPTH OF FOOTING BELOW LOWEST ADJACENT FINISH GRADE. AND 12" MIN. WIDTH FOR 1ST STORY;
- 15" MIN. WIDTH FOR 2-STORY. BEAR ON FIRM NATIVE OF PROPERLY COMPACTED SOILS.

2. DESIGN LOADS:

	DEAD	LIVE
	(PSF)	(PSF)
ROOF	15	20
FLOOR	15	40
DECK	15	60

3. LATERAL LOADS

WIND DESIGN DATA:	
BASIC WIND SPEED	96 M
IMPORTANCE FACTOR I	1.0
OCCUPANCY CATEGORY	II
WIND EXPOSURE	В

4. LUMBER GRAGES (U.N.O)

EARTHQUAKE DESIGN DATA:	
IMPORTANCE FACTOR I	
Ss	
S1	0.317
SDs	0.688
SD1	0.419
SEISMIC DESIGN CATEGORY	D
BASIC SEISMIC FORCE-RESISTING SYSTEM .	
	(ASCE 7-16 TABLE 12.2-1)
DESIGN BASE SHEAR	0.7V=0.074*W (ASD LEVEL)

- 0.106 USE EQUIVALENT LATERAL FORCE PROCEDURE
- 6X & 8X POSTS /BEAMS /HEADRES: DFL#1 4X POSTS /BEAMS/ HEADERS: DFL #2 2X JOISTS /RAFTERS: DFL #2
- TOP PLATES & MUD SILLS: DFL CONSTRUCTION GRADE OR BETTER SEE STRUCTURAL WOOD NOTE #11 FOR ADDITIONAL MUD SILL REQUIREMENTS
- 5. THE FOLLOW BEAMS/ HEADERS/ RIMS CAN BE FROM ANY MANUFACTURER WITH CURRENT ICC ES-EVALUATION REPORT WITH THE FOLLOWING MECHANICAL PROPERTIES:
- FOR "PSL" BEAM / HEADERS: $3\frac{1}{2}$ " & WIDER: Fb = 2900 PSI (MIN.), Fv = 290 PSI (MIN.) E = 2.9 X 10^{6} PSI (MIN.) $1\frac{3}{4}$ " & $2\frac{5}{8}$ ": Fb = 2900 PSI (MIN.), Fv = 290 PSI (MIN.) E = 2.9 X 10 PSI (MIN.)

REINFORCING STEEL

- 1. ALL REINFORCING STEEL SHALL BE AS FOLLOWS
- A. NO. 4 BARS AND SMALLER INTERMEDIATE GRADE CONFORMING TO A615-40 B. NO. 5 BARS AND LARGER — HARD GRADE CONFORMING TO A615-60
- C. ALL MASONRY WALL REINFORCING, INCLUDING MASONRY WALL FOOTINGS, SHALL BE INTERMEDIATE GRADE CONFORMING TO A615-60
- D. ALL BARS EXCEPT NO. 2 BARS SHALL BE DEFORMED AS PER ASTM A305
- E. WIRE MESH SHALL CONFORM TO ASTM A185 F. REBARS TO BE WELDED SHALL BE CONFORMING TO ASTM A-706, GRADE 60
- GRADE 60 BARS SHALL BE MARKED SO ITS IDENTIFICATION CAN BE MADE WHEN THE FINAL IN PLACE INSPECTION IS MADE.
- REINFORCING STEEL AT THE TIME OF THE CONCRETE IS PLACED SHALL BE FREE FROM MUD, OIL, OR OTHER NON METALLIC
- COATINGS THAT ADVERSELY AFFECT BONDING CAPACITY. BAR SUPPORTS SHALL CONFORM TO THE BAR SUPPORT
- SPECIFICATIONS CONTAINED IN THE "MANUAL OF STANDARD
- A CERTIFIED COPY OF MILL TEST ON EACH HEAT OF REINFORCING STEEL DELIVERED SHOWING PHYSICAL AND CHEMICAL ANALYSIS SHALL BE PROVIDED UPON REQUEST AT THE TIME OF SHIPMENT.
- ALL REQUIREMENT OF CONCRETE REINFORCEMENT NOT COVERED ON THE DRAWINGS SHALL BE IN ACCORDANCE WITH ACI "MANUAL OF
- STANDARD PRACTICE" BARS SHALL BE SECURELY TIED TO PREVENT DISPLACEMENT DURING THE CONCRETE OPERATION AND ALL DOWELS SHALL BE WIRED IN PLACE BEFORE DEPOSITING CONCRETE.
- REINFORCING BARS SHALL CONFORM ACCURATELY TO THE DIMENSIONS SHOWN ON THE DRAWINGS WITH THE FABRICATING TOLERANCES PER ACI "MANUAL OF STANDARD PRACTICE."
- 9. REINFORCING BARS SHALL NOT BE BENT OR STRAIGHTENED IN A MANNER THAT WILL INJURE THE MATERIAL.

STRUCTURAL WOOD

- MINMUM QUALITY ALL STRUCTURAL WOOD SHALL BE DOUGLAS FIR LARCH SPECIES, (19% MAXIMUM MOISTURE CONTENT AT THE TIME OF CONSTRUCTION U.N.O)
- ALL MACHINE BOLTS SHALL CONFORM TO ASTM A307. HOLES FOR BOLTS SHALL BE DRILLED $rac{1}{16}$ " LARGER THAN BOLT DIAMETER.
- FOR NON-SHEAR WALL APPLICATIONS, ROUND WASHERS SHALL BE USED ON ALL BOLTS AND SHOULD CONFORM WITH ANSI/ASME B 18.22.1. USE MIN. 1%" Ø X 7/4" THICK WASHER FOR 1/2" Ø BOLT, 13/4" Ø X 9/4" THICK WASHER FOR %" Ø BOLT AND 21/2" Ø X 11/64" THICK WASHER FOR 1" Ø BOLT. U.N.O.
- ADHESIVE USED TO ATTACH FLOOR SHEATHING TO FRAMING ELEMENT SHALL CONFORM WITH APA SPECIFICATION . MANUFACTURED HARDWARE SPECIFIED ON THE DRAWINGS ARE TO BE SIMPSON STRONG TIE (UNLESS SPECIFICALLY AUTHORIZED IN WRITING BY E.O.R.. FOLLOW ALL MANUFACTURER'S & RECOMMENDATIONS FOR INSTALLATION &

ALL NAILS SHALL BE SINKER NAILS AND STAGGERD U.N.O., EXCEPT AS SHOWN ON NAILING SCHEDULE

- HANDLING OF THE PRODUCT . DO NOT BEND THE SIMPSON PA STRAPS.

THAN 12" O.C.

- B. ALL FRAMING, BRACING, NAILING, NOTCHING, DRILLING OR BORING SHALL BE ACCORDANCE WITH BUILDING CODE UNLESS MORE STRINGENT REQUIREMENTS ARE SPECIFIED OR REQUIRED BY THE LOCAL JURISDICTION.
- FABRICATION AND HANDLING OF GLUE-LAM BEAMS SHALL BE PER ANSI/AITC A 190.1. STANDARD BEAMS TO BEAR LEGIBLE APA-ENS OR AITC GRADE STAMP. AN APA-EWS CRAN AITC CERTIFICATE OF CONFORMANCE FOR SHOULD BE SUBMITTED TO THE FIELD INSPECTOR PRIOR TO INSTALLATION AND GLUE-LAM MEMBERS SHALL BE 24F-V4, DF/DF WITH STANDARD CAMBER ON ROOF BEAMS EXCEPT CANTILEVER END (U.N.O). ALL CANTILEVER ENDS

SHALL HAVE ZERO CAMBER U.N.O. ALL BEAMS SHALL BE FABRICATED USING WATERPROOF GLUE.

- 10. FASTENERS IN CONTACT WITH PRESERVATIVE TREATED LUMBER AND FIRE RETARDANT TREATED WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS, SILICON BRONZE OR COPPER. EXCEPTION: PLAIN CARBON STEEL FASTENERS IN SBX/DOT AND ZINC BORATE PRESERVATIVE-TREATED WOOD IN AN INTERIOR, DRY ENVIRONMENT SHALL BE PERMITTED.
- 1. STUD WALLS PERPENDICULAR TO A CONCRETE OR MASONRY WALL SHALL BE BOLTED TO THE CONCRETE OR MASONRY WALL WITH %" Ø X 8" A307 BOLTS AT TOP, MID-HEIGHT AND BOTTOM.
- 12. STRUCTURAL INFORMATION SHOWN ON FRAMING PLANS IS FOR THE MAIN STRUCTURAL ELEMENTS. NON—STRUCTURAL
- ELEMENTS SHALL BE CONSTRUCTED PER APPROVED CODE REQUIREMENTS. 13. CONVENTIONAL LIGHT FRAMED CONSTRUCTION REQUIREMENTS OF CHAPTER 23 SHOULD BE FOLLOWED AS REQUIRED.
- 4. WEIGHT OF THE ROOF TILE IS CONSIDERED TO BE 10PSF MAX. (TOTAL ROOF DEAD LOAD OF 19 PSF). IF ROOFING MATERIAL EXCEEDS THIS LOAD, THE FRAMING CONTRACTOR SHOULD NOTIFY E.O.R. IN WRITING PRIOR TO
- 15 TOP PLATES OF ALL WOOD STUD WALLS TO CONSIST OF (2) 2x's THE SAME WIDTH AS THE STUDS U.N.O. TOP PLATE SHALL LAP A MIN. OF 48" AND BE SPLICES WITH NOT LESS THAN 6-16 NAILS SPACED NOT MORE
- 16. ALL SHEAR PANELS SHALL HAVE CONTINUOUS SHEATHING MATERIAL FROM ONE END TO THE OTHER AND FROM PLATE TO PLATE AS SPECIFIED ON THE DRAWINGS. CONTRACTOR SHALL COORDINATE FRAMING SUCH THAT CONTINUITY OF SHEAR PANELS IS ASSURED.
- 17. ALL LEDGERS SHALL BE SPLICES WITH ST22 STRAP, UNLESS NOTED OTHERWISE.
- 18. ALL SHEAR TRANSFER NAILING SHALL BE PER DRAWINGS, AND CONTRACTOR SHALL PROVIDE PROPER NOTIFICATION FOR INSPECTIONS TO REVIEW THE SAME.
- 19. PROVIDE POST/MULTIPLE STUDS AT LOWER FLOOR UNDER POST/MULTIPLE STUDS ABOVE. EACH POST/STUD SHALL BE FASTENED BY GYPSUM WALL BOARD w/5d COOLER NAILS @ 7" O.C. U.N.O ON PLAN. PROVIDE FULL WIDTH AND DEPTH COMPRESSION BLOCK BETWEEN FLOORS AS SUCH LOCATIONS.
- 20. ALL JOIST HANGERS SHALL BE SIMPSON U HANGER, ALL BEAM HANGERS SHALL BE SIMPSON HU HANGER U.N.O. ON PLAN OR DETAIL. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.
- 21. IF A DOUBLE SILL PLATE IS USED AT LIGHT-WEIGHT CONCRETE FLOORING, THEN THE FRAMING CONTRACTOR SHALL APPLY SILL PLATE NAILING TO BOTH SILL PLATES, AT 16" O.C MAX. OR SPECIFIED PER SCHEDULE.

22. USE THIS SPAN TABLE FOR STUD SPACING (U.N.O)

	SIZE. HEIGHT AND SPACING OF WOOD STUD							
	BEARING WALLS						NON-BEARING/NON-SHEAR WALLS	
STUD SIZES	STUD HEIGHTS	5TH TO ROOF	4TH TO 5TH FL	3RD TO 4TH FL	2ND TO 3RD FL	1ST TO 2ND FL	STUD HEIGHTS	MAXIMUM SPACING
		INCHES	INCHES	INCHES	INCHES	INCHES	FEET	INCHES
2X4	10	16	12				14	24
3X4	10	24	24	16			14	24
2X6	10	24	24	16	16	16	20	24
2-2X4	10			16	12			
2-2X6	10			24	24	24		

- * SHALL NOT BE USED IN EXTERIOR WALLS
- ** REFER TO PLANS FOR STUD HEIGHTS EXCEEDING THIS TABLE *** FOR MAXIMUM SPACING AT SHEAR WALLS SEE S.W. SCHEDULE TABLE MOST RESTRICTIVE LIMIT SHALL GOVERNS
- 23. HEADERS: USE MINIMUM 4X4 FOR OPENINGS LESS THAN 16" AT BEARING WALLS WITHOUT POINT LOADS. FOR NON-BEARING WALLS USE 2X4 FOR OPENINGS UP TO 3'-0" MAX. USE (2) 2X4 FOR OPENING UP TO 6'-0" MAX. USE 4X6 FOR OPENINGS UP TO 12'-0" MAX. U.N.O (2-2X ON EDGE CAN BE SUBSTITUTED FOR 4X MEMBERS)
- 24. WOOD TRUSS MANUFACTURER SHALL SUPPLY TO THE ENGINEER AND THE BUILDING DEPARTMENT CALCULATIONS AND SHOP DRAWINGS FOR APPROVAL OF DESIGN LOADS, CONFIGURATION (2 OR 3 POINT BEARING), AND SHEAR TRANSFER, PRIOR TO FABRICATION. IT SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER TO OBTAIN BUILDING DEPARTMENT APPROVAL OF CALCULATIONS AND SHOP DRAWINGS PRIOR
- 25. TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE CURRENT BUILDING CODE FOR ALL LOADS IMPOSED, INCLUDING LATERAL LOADS AND MECHANICAL EQUIPMENT LOADS.

- 26. USE THIS SPAN TABLE FOR CEILING JOISTS GIVEN THE FOLLOW CONDITIONS
- (U.N.O. ON PLANS) A) DEAD LOAD = 6 PSF
- B) LIVE LOAD = 10 PSF
- C) TOTAL DEFLECTION = L/240D) WITH ONE LAYER DRYWALL
- E) USE DFL#2

2	2X4	2	2X6	2X8	
SPACING	MAX. SPAN	SPACING	MAX. SPAN	SPACING	MAX. SPAN
12"	9'-10"	12"	16'-0"	12"	20'-5"
16"	8'-10"	16"	14'-5"	16"	18'-4"
24"	7'-7"	24"	12'-6"	24"	15'-9"

	ELEMENT / CONNECTION	FASTENERS	LOCATION
	ROOF		
	BLOCKING BETWEEN CEILING JOIST, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW	3-8d	TOENAIL EA. END
1	BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS	2-8d 2-16d	TOENAIL EA. END EA. END
	FLAT BLOCKING TO TOP PLATE	16d @ 6" O.C	FACE NAIL
2	CEILING JOISTS TO TOP PLATE	3-8d	TOENAIL EA. JOIST
3	CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS	3–16d	FACE NAIL
4	CEILING JOISTS ATTACHED TO PARALLEL RAFTER	TABLE 2308.7.3.1	FACE NAIL
5	COLLAR TIE TO RAFTER	3–10d	FACE NAIL
6	RAFTER OR ROOF TRUSS TO TOP PLATE	3-10d	TOENAIL ³
7	ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS, OR ROOF RAFTER TO 2" RIDGE VEAM	2-16d	END NAIL TOENAIL
	WALL	3–10d	TUENAIL
8	STUD TO STUD	16d	24" O.C FACENAIL
9	STUD TO STUD AND ABUTTING STUDS AT INTERSECTING	16d	16" O.C FACENAIL
0	WALL CORNERS BUILT-UP HEADER	16d	16" O.C FACENAIL
1		4-8d	TOENAIL
	CONTINUOUS HEADER TO STUD	16d	16" O.C FACENAIL
_	TOP PLATE TO TOP PLATE		ED. SIDE OF END
3	TOP PLATE TO TOP PLATE, AT END JOISTS	8-16d	JOINT, FACE NAIL
4	BOTTOM PLATE TO JOIST, RIM JOIST, BEND JOIST OR BLOCKING	16d	16" O.C FACENAIL
5	BOTTOM PLATE TO JOIST, RIM JOIST, BEND JOIST OR BLOCKING AT BRACED WALL PLATES	2-16d	16" O.C FACENAIL
6	STUD TO TOP OR BOTTOM PLATE	4-8d 2-16d	TOENAIL END NAIL
7	TOP OR BOTTOM PLATE TO STUD	2–16d	FACE NAIL
8	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d	FACE NAIL
9	1" BRACE TO EACH STUD AND PLATE	2-8d	FACE NAIL
20	1'X6' SHEATHING TO EACH BEARING	2-8d	FACE NAIL
21	1'X6' SHEATHING TO EACH BEARING	2-8d	FACE NAIL
	FLOOR		
22	JOIST TO SILL, TOP PLATE, OR GIRDER	3-8d	TOENAIL
23	RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW	8d	6" O.C TOENAIL
24		2-8d	FACE NAIL
25	2" SUBFLOOR TO JOIST OR GIRDER	2-16d	FACE NAIL
	2" PLANK	2-16d	EA. BEARING, FACE NAIL
	BUILT UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	20d	32' O.C FACE NAIL
27	BOILT OF GINDLING AND BLAMS, 2 LOMBEN LATENS		AT TOP AND BOTTOI STAGGERED ON OPPOSITE SIDES
28	LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	3–16d	EA. JOIST OR RAFTER, FACE NAIL
29	JOIST TO BAND JOIST OR RIM JOIST	3–16d	END NAIL
7.0	BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS	2-8d	EA. END TOENAIL
	WOOD STRUCTURAL PANLES, SUB FLOOR, ROOF AND IN		FRAMING
31	AND PARTICLEBOARD WALL SHEATHING TO FRAMING 1 36" - 1/2"	6d	6" EDGE
32		8d	12" INTERMEDIATE
	19 ₃₂ " - 3 ₄ "	10d	SUPPORTS
	76" - 14" OTHER EXTERIOR WALL SHEATHING		
_{z 1}		1 ½" GALVANIZED	-" "
-	½" FIBERBOARD SHEATHING	ROOF NAIL 1 ½" GALVANIZED	3" EDGE 6" INTERMEDIATE SUPPORTS
ادر	25/32" FIBERBOARD SHEATHING WOOD STRUCTURAL PANELS COMBINATION SUBELOOP	ROOF NAIL	
₇ _1	WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR	UNDERLAYMENT TO FRAMING	
-	¾" AND LESS		6" EDGE 12" INTERMEDIATE SUPPORTS
37	½" −1"	8d	
8	1 ½" - 1 ¼"	10d	
	PANEL SIDING TO FRAMING	1	
39	½" OR LESS		6" EDGE 12" INTERMEDIATE
10	5%"		SUPPORTS
	INTERIOR PANELING	1	
11	¼ "		6" EDGE 12" INTERMEDIATE
	3 ₆ "		SUPPORTS

2. SPACING SHALL BE 6" O.C ON THE EDGES AND 12" O.C AT INTERMIDATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANELS

3. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PALTE IN ACCORDANCE WITH THIS SCHEDULE. THE NUMBER OF TOENAILS IN THE RAFTERS SHALL

4. FASTENERS FOR PRESERVATIVE-TREATED OR FIRE-RETARDANT-TREATED WOOD SHALL BE OF HOT DIPPED ZINC-COATED GALVANIZED

SUPPORTS AT 16" (20" IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL. UNLESS OTHERWISE MARKED).

BOX OR CASING.

BE PERMITTED TO BE REDUCED BY ON NAIL.

STEEL IN ACCORDANCE WITH ASTM A153.

FOUNDATION

- ALL CONTINUOUS FOOTINGS TO HAVE 1/8" Ø X MIN. 12" ANCHOR BOLTS, MIN. 7" EMBEDMENT IN TO CONCRETE FOOTING AT 72" O.C. UNLESS NOTED OTHERWISE ON PLANS. ONE ANCHOR BOLT SHOULD BE LOCATED MAX. 12" AWAY AND MIN. 9 %" FROM THE END OF THE SILL PLATES, MIN. (2) A.Bs. PER SILL PLATE/SHEAR PANEL. SILL PLATE UNDER SHEAR WALLS OF UP TO 4'-0" IN LENGTH MUST BE CONTINUOUS. SEE NOTE 2 FOR SILL PLATE FASTENERS AT INTERIOR NON-SHEAR WALLS.
- 1a. ANCHOR BOLTS AT SHEAR WALLS SHALL BE INSTALLED WITH PLATE WASHERS OF MIN. 3" sq. X 0.229" THICK BETWEEN SILL PLATE AND NUT. EDGE(S) OF PLATE WASHERS SHALL BE 1/2" MAX. FROM INSIDE FACE OF SHEAR PANEL(S).
- 1b. THE HOLE IN THE PLATE WASHER IS PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH OF UP TO ¾6" LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH NOT TO EXEED 1 3/4", PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT.
- P. FOR INTERIOR NON-SHEAR WALLS, USE SIMPSON PDPAWL SERIES 0.157" ϕ PINS WITH A PENETRATION OF $rac{3}{4}$ " INTO SLAB AT 16" O.C. TO BE INSTALLED IN ACCORDANCE WITH ICC ESR-2138. ACTUAL SLAB THICKNESS TO BE MINIMUM 4". ALL INTERIOR SHEAR WALLS TO HAVE A.Bs. PER FOUNDATION PLAN.
- ALL HOLDOWNS AND POST ANCHORS TO BE INSTALLED ACCORDING TO MOST CURRENT SIMPSON STRONG TIE SPECIFICATIONS AND REQUIREMENTS OF ICC-ER REPORTS & SHALL BE TIED IN PLACE PRIOR TO FOUNDATION INSPECTION. DIMENSIONS ARE NOT FURNISHED TO SIMPSON HOLDOWNS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR'S SUPERINTENDENT, THE FRAMING CONTRACTOR AND THE CONCRETE CONTRACTOR TO LOCATE THESE ANCHORS IN THE EXACT LOCATION. REFER TO DETAILS FOR PROPER INSTALLATION.
- MIN. CONCRETE WIDTH TO BE 8" FOR RECEIVING PA, HPA, & STHD'S. VERIFY LOCATIONS OF HOLDOWNS AND ANCHOR BOLTS WITH ROUGH FRAMING TO ASSURE ACCURATE INSTALLATION.
- ^{5.} PROVIDE #3 X 24" DOWELS AT 24" O.C AND 12" FROM THE CORNER AT ALL CONCRETE STOOPS AND PORCHES.
- 6. PROVIDE MIN. (1) #4 REINFORCING FOR ELECTRICAL GROUND, LOCATION TO BE VERIFIED WITH THE ELECTRICAL CONTRACTOR. . VERIFY MIN. FOUNDATION DEPTH, WIDTH, REINFORCING STEEL AND ADDITIONAL EXPANSIVE SOIL REQUIREMENTS WITH VALID SOILS REPORT (IF IT HAS) AND IF MORE STRINGENT. THEY SHALL SUPERSEDE THE ABOVE MINIMUM
- B. ADMIXTURES IN CONCRETE MIX. CONTAINING CALCIUM CHLORIDES SHALL NO BE USED.
- 9. CONCRETE SHALL BE TO THE STRENGTH AND SLUMP AS SPECIFIED PER STRUCTURAL DESIGN, AND CONSIST OF PORTLAND CEMENT ASTM C-150 TYPE V PER SOILS ENGINEER'S RECOMMENDATIONS AND BUILDING CODESECTION 1904 (ACI 138 SECTION 19.3.2) WHEN EXPOSED TO SULFATE CONTAINING SOLUTIONS. AGGREGATES SHALL BE PER ASTM C-33. WATER TO BE CLEAN AND POTABLE.
- D. WAITING PERIOD FOR CONCRETE SLABS-ON-GRADE PRIOR TO START OF CONSTRUCTION IS
- AS FOLLOWS: a. DO NOT WALK ON SLAB UNTIL 24 HOURS AFTER CONCRETE HAS BEEN POURED.
- b. BEGIN WALL FRAMING 4-5 DAYS AFTER CONCRETE POURED. c. BEGIN ROOF/FLOOR FRAMING 7-10 DAYS AFTER CONCRETE POURED.
- d. DO NOT LOAD ROOF PRIOR TO 14 DAYS AFTER CONCRETE POURED.
- 1.NO PIPES OR CONDUITS SHALL EXTEND UNDER ISOLATED COLUMN FOOTING OR UNDER CONTINUOUS WALL FOOTINGS UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE ARCHITECT, STRUCTURAL ENGINEER AND THE BUILDING OFFICIAL.
- 2. CONTRACTOR SHALL PROVIDE TEMPORARY AND PERMANENT
- DEWATERING FOR EITHER SURFACE WATER, GROUND WATER OR SEEPAGE WATER 13. CONTRACTOR SHALL PROTECT ALL UTILITY LINES, ETC.
- ENCOUNTERED DURING EXCAVATIONS AND BACKFILLING.
- 14. CONTRACTOR SHALL PROVIDE AND INSTALL ALL CRIBBING SHEATHING AND SHORING REQUIRED TO SAFELY RETAIN THE EARTH BANK.
- 15. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL SHALL BE PROPERLY COMPACTED.
- 16. NO VERTICAL EXCAVATIONS 4'-0" OR MORE IN DEPTH INTO WHICH A PERSON IS REQUIRED TO DESEND SHALL BE PERMITTED.
- '. EXCAVATION FOR ANY PURPOSE SHALL NOT REMOVE LATERAL SUPPORT FROM ANY FOUNDATION WITHOUT FIRST UNDERPINNING OR PROTECTING THE FOUNDATION AGAINST SETTLEMENT OR LATERAL TRANSLATION. (2019 CBC, 1804.1)
- 18. THE EXCAVATION OUTSIDE THE FOUNDATION SHALL BE BACKFILL WITH SOIL THAT IS FREE OF ORGANIC MATERIAL, CONSTRUCTION DEBRIS COBBLES AND BOULDERS OR WITH A CONTROLLED LOW-STRENGTH MATERIAL (CLSM). THE BACKFILL SHALL BE PLACED IN LIFTS AND COMPACTED IN A MANNER THAT DOES NOT DAMAGE THE FOUNDATION OR THE WATERPROOFING OR DAMPPROOFING MATERIAL (2022 CBC, 1804.2)

CONCRETE

- 1. ALL CONCRETE SHALL BE NORMAL WEIGHT CONFORMING TO THE
- FOLLOWING: LOCATION 28-DAY MIN. MAXIMUM MIX DESIGN COMPRESSIVE AGGREGATE SLUMP STRENGTH SIZE (IN.) (INCHES) A. SLAB ON GRADE 2500 psi 3 (4" MAX) B. FOOTING 2500 psi* 4 (5" MAX) C. RETAINING WALL /FOOTING

3000 psi*

- * W/5.25 SACKS CEMENT (MIN.) * WHERE SULFATE EXPOSURE LEVEL IS SEVERE USE 5000 psi
- WITH W/C RATIO OF 0.45 (MAX) W/5.5 SACKS CEMENT (MIN.) FOR 5000 PSI
- 2. ALL SAW CUTS IN SLAB ON GRADE SHALL BE MADE NOT LATER THAN 24 HOURS AFTER PLACING CONCRETE. 3. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE II CEMENT.
- 4. AGGREGATE SHALL CONFORM TO ASTM C-33.
- 5. WATER SHALL BE CLEAN, FREE FROM DELETERIOUS AMOUNTS OF ACIDS, ALKALIS OR ORGANIC MATERIALS, OILS, SALTS AS PER ACI 318.
- 6. CONCRETE MIXING OPERATIONS, ETC. SHALL CONFORM TO ASTM C-94. WATER-CEMENT RATIO IS LESS THAN 0.50 7. UNLESS SHOWN OR NOTED OTHERWISE, CONCRETE COVERAGE FOR

4 (5" MAX)

- A. CONCRETE IN CONTACT WITH EARTH, UNFORMED B. CONCRETE IN CONTACT WITH EARTH, FORMED D. BEAMS, GIRDERS & COLUMNS (TO TIES OR STIRRUPS) 1.5"
- 8. CONCRETE SHALL BE CURED IN ACCORDANCE WITH SECT 5.11 OF ACI 318-11.
- THE SURFACES OF ALL CONSTRUCTION JOINTS SHALL BE CLEAN, FREE FROM LOOSE DEBRIS. IMMEDIATELY BEFORE NEW CONCRETE IS PLACED, ALL CONSTRUCTION JOINTS SHALL BE WETTED AND

STANDING WATER REMOVED.

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DRAWN BY: X.Q PROJECT NO. 23123

ISSUE DATE: 02-06-2024

S-01

SYMBOLS LEGEND

INDICATES WALL STUD 2X4 @ 16" O.C

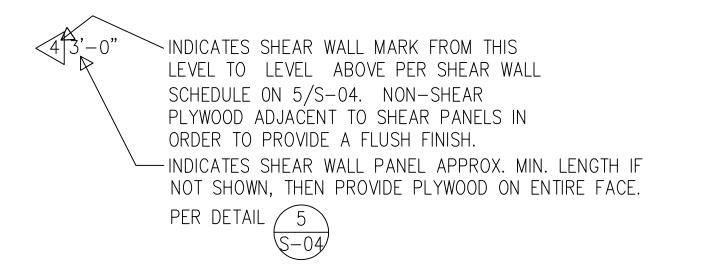
INDICATES STUD WALL ABOVE



INDICATES SHEAR WALL HOLDOWN PER SCHEDULE (5) W/4X4 WOOD POST (U.N.O)



INDICATES 15" WIDE X 18" DEEP FOOTING



SPECIAL INSPECTION NOTES:

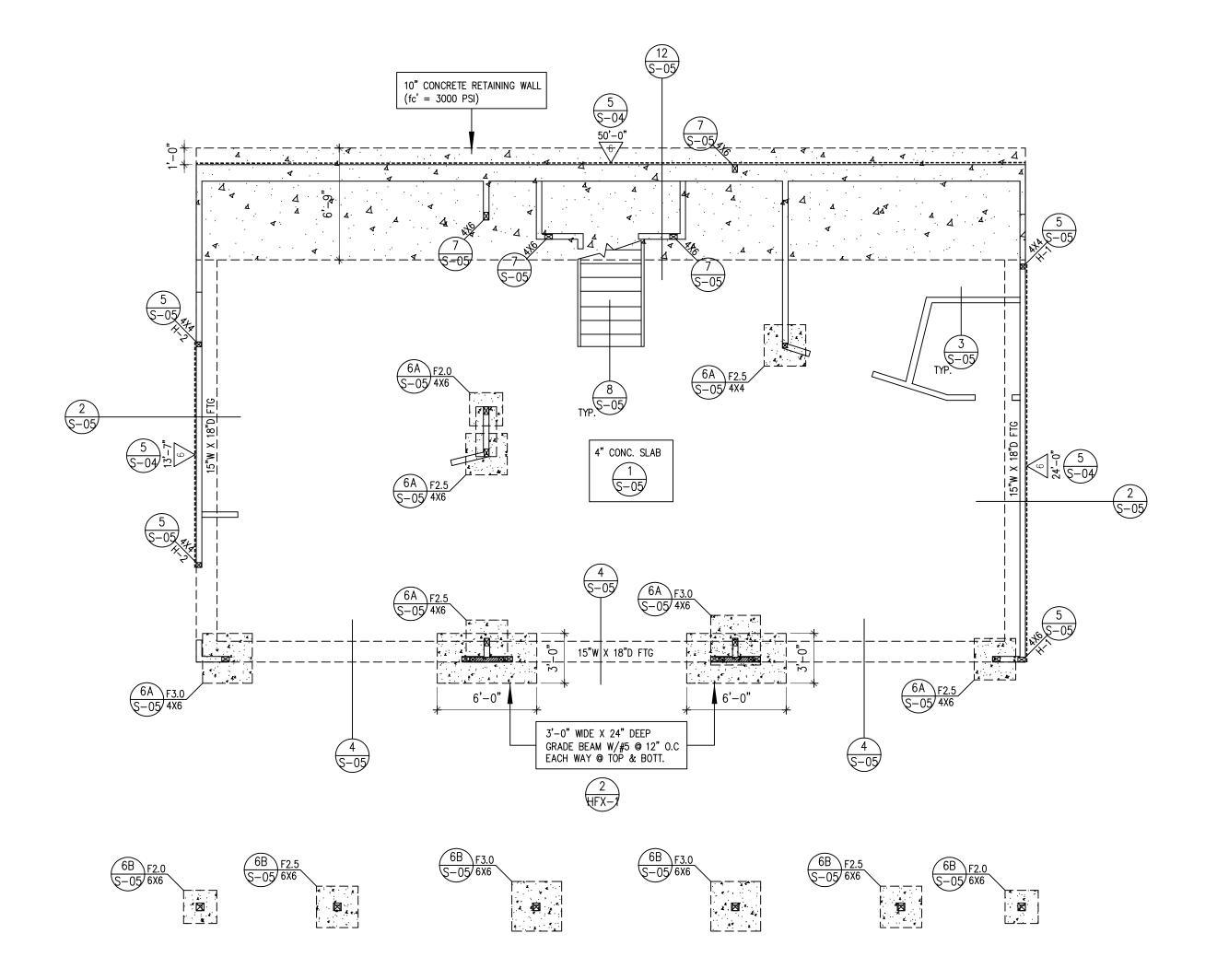
- 1. IN ADDITION TO THE REGULAR INSPECTION THE FOLLOWING ITEMS WILL ALSO REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH CBC Ch. 17, UNLESS EXEMPTED BY THE EXCEPTIONS OF SEC. 1704.2, OF THE BUILDING CODE.
- 2. THE OWNER OR THE OWNER'S AUTHORIZED AGENT, OTHER THAN THE CONTRACTOR, SHALL EMPLOY ONE OR MORE APPROVED AGENCIES (PER CBC SEC. 1703.1) TO PROVIDE SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION ON THE TYPES OF WORK SPECIFIED IN BUILDING CODE SECTION 1705, AS INDICATED BELOW BY EOR "STATEMENT OF SPECIAL INSPECTIONS" AND IDENTIFY THE APPROVED AGENCIES TO THE BUILDING OFFICIAL.
- APPROVED AGENCIES TO THE BUILDING OFFICIAL.

 3. THE SPECIAL INSPECTOR SHALL BE QUALIFIED AND APPROVED BY THE BUILDING DEPARTMENT AND ACCEPTABLE TO THE ARCHITECT. PRIOR TO THE START OF THE CONSTRUCTION, THE APPROVED AGENCIES SHALL PROVIDE WRITTEN DOCUMENTATION TO THE BUILDING OFFICIAL DEMONSTRATING THE QUALIFICATIONS PER CBC SECTION 1704.2.1.

 4. APPROVED AGENCIES SHALL KEEP RECORDS OF SPECIAL INSPECTIONS AND TESTS. THE APPROVED AGENCY SHALL SUBMIT RECORDS OF SPECIAL INSPECTIONS AND TESTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND THE ARCHITECT OF THE RECORDS. COPIES OF THE REPORTS SHALL BE AVAILABLE AT THE JOB SITE AT ALL TIMES. REPORTS SHALL INDICATE THE WORK INSPECTED OR TESTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND TESTS, AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS OR TESTS, SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON PRIOR TO THE START OF WORK BY THE OWNER OR
- THE OWNER'S AUTHORIZED AGENT TO THE BUILDING OFFICIAL. 5. THE DUTIES OF THE SPECIAL INSPECTOR SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF SECTION 1704 OF THE LATEST
- EDITION OF THE CBC. 6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXPENSES DUE TO ANY PREMATURE NOTIFICATION OF INSPECTION WHICH RESULTS IN
- 7. FAILURE OF NOTIFICATION BY THE CONTRACTOR FOR INSPECTION ON A TIMELY BASIS MAY RESULTS IN COMPLETE REMOVAL AND
- REPLACEMENT OF ALL WORK PERFORMED AT CONTRACTORS EXPENSE.

 8. SITE VISITS BY THE STRUCTURAL ENGINEER DO NOT CONSTITUTE AN INSPECTION.

	TEMENT OF SPECIAL INSPECTIONS (2022 CBC, C LY INDICATED ITEMS ARE REQUIRED)	HAPTER 17)	
REQ'D (?)	INSPECTION ITEMS	SPECIAL INSPECTORS (NAME, PHONE #, REGISTRATION#)	
YES	CONCRETE CONSTRUCTION (DESIGN MIX. FORMWORK, PLACEMENT, ETC. PER TABLE 1705.3) (SEE 1705.3 EXCEPTION)		



FOUNDATION PLAN SCALE: 3/16"=1'-0"

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4 **∞** REMODEL

FOUNDATION

DRAWN BY: X.Q PROJECT NO. 23123

ISSUE DATE: 02-06-2024

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INDICATES WALL STUD 2X4 @ 16" O.C

======= INDICATES STUD WALL ABOVE

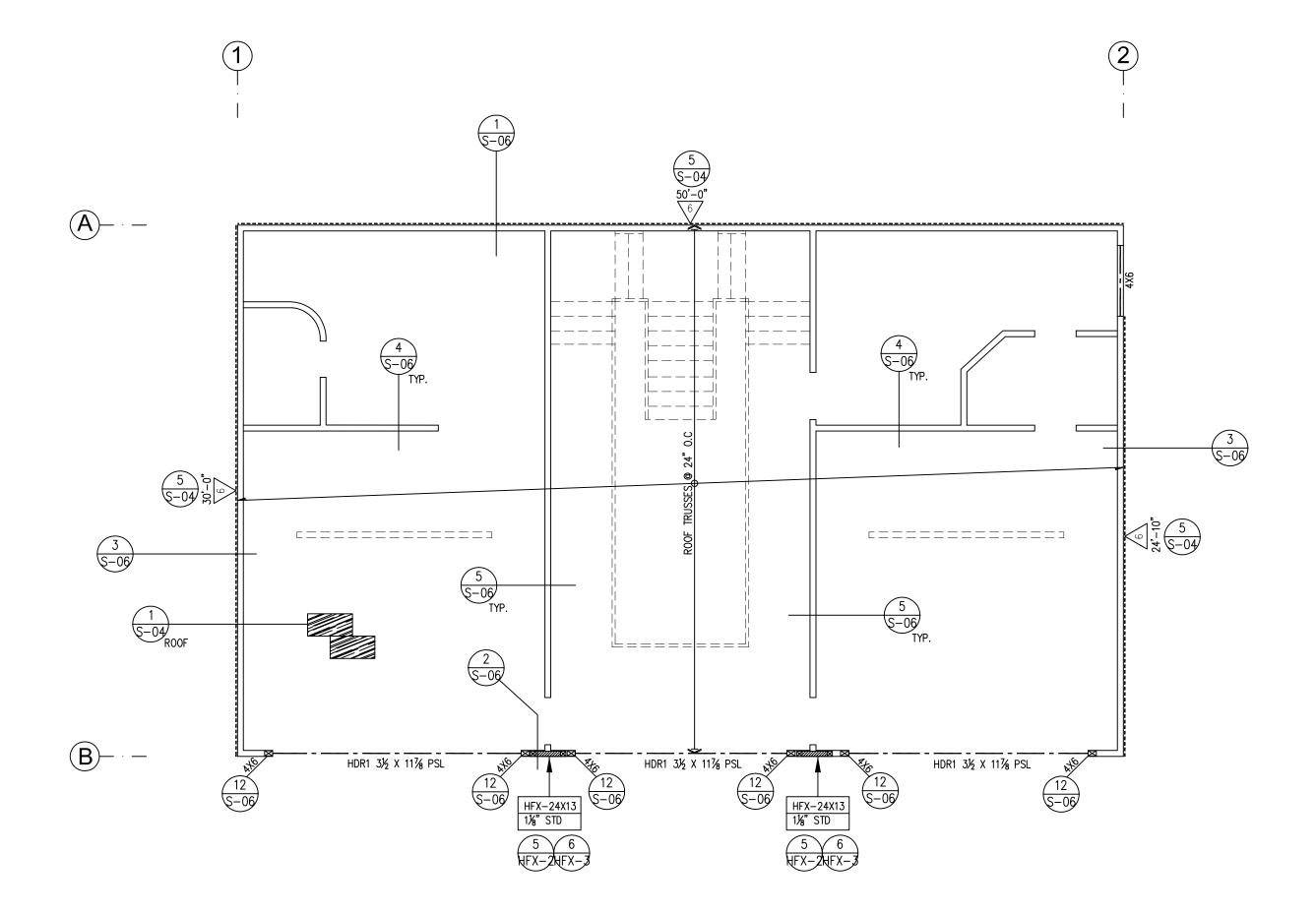
INDICATES SHEAR WALL HOLDOWN PER SCHEDULE 5 W/4X4 WOOD POST (U.N.O)

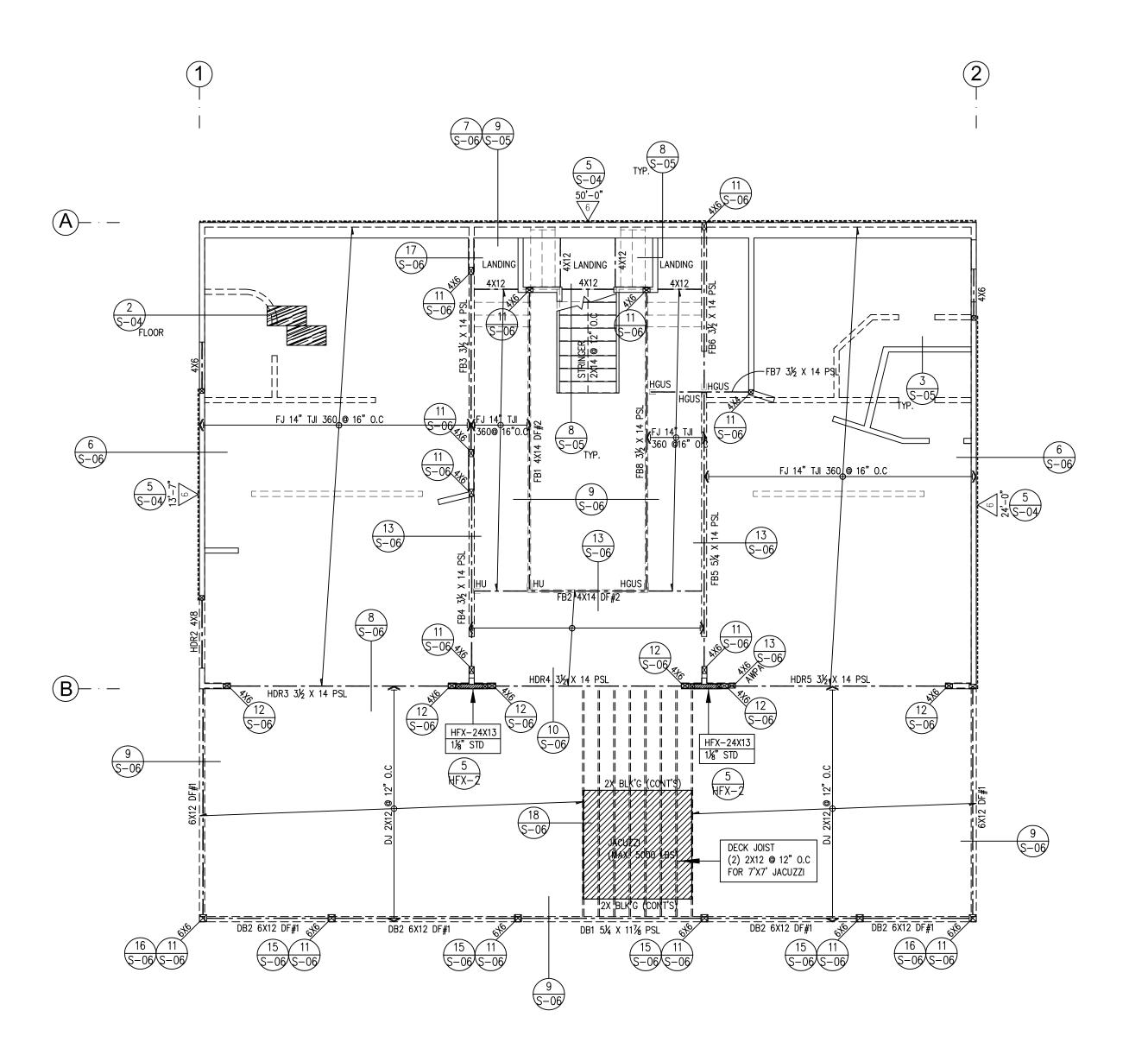
___ INDICATES 15" WIDE X 18" DEEP FOOTING

INDICATES SHEAR WALL MARK FROM THIS
LEVEL TO LEVEL ABOVE PER SHEAR WALL
SCHEDULE ON 5/S-04. NON-SHEAR
PLYWOOD ADJACENT TO SHEAR PANELS IN
ORDER TO PROVIDE A FLUSH FINISH.

INDICATES SHEAR WALL PANEL APPROX. MIN. LENGTH IF
NOT SHOWN, THEN PROVIDE PLYWOOD ON ENTIRE FACE.

PER DETAIL 5
S-04





ROOF FRAMING PLAN
SCALE: 3/16"=1'-0"

FLOOR FRAMING PLAN
SCALE: 3/16"=1'-0"

DRAWN BY: X.Q PROJECT NO. 23123

OWNER: MICHAEL & JULIA GLLAS

TEL.: (858) 888-2135

PROJECT ADDRESS: 9703 UPAS LN.

EOR: XIN QIAN

TEL: 858-205-4660

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REMODEL

LAN-ADU1 PLAN-ADU1

ROOF FRAMING PL FLOOR FRAMING F

EMAIL: xin.qian@gmail.com

ESCONDIDO, CA 92029

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