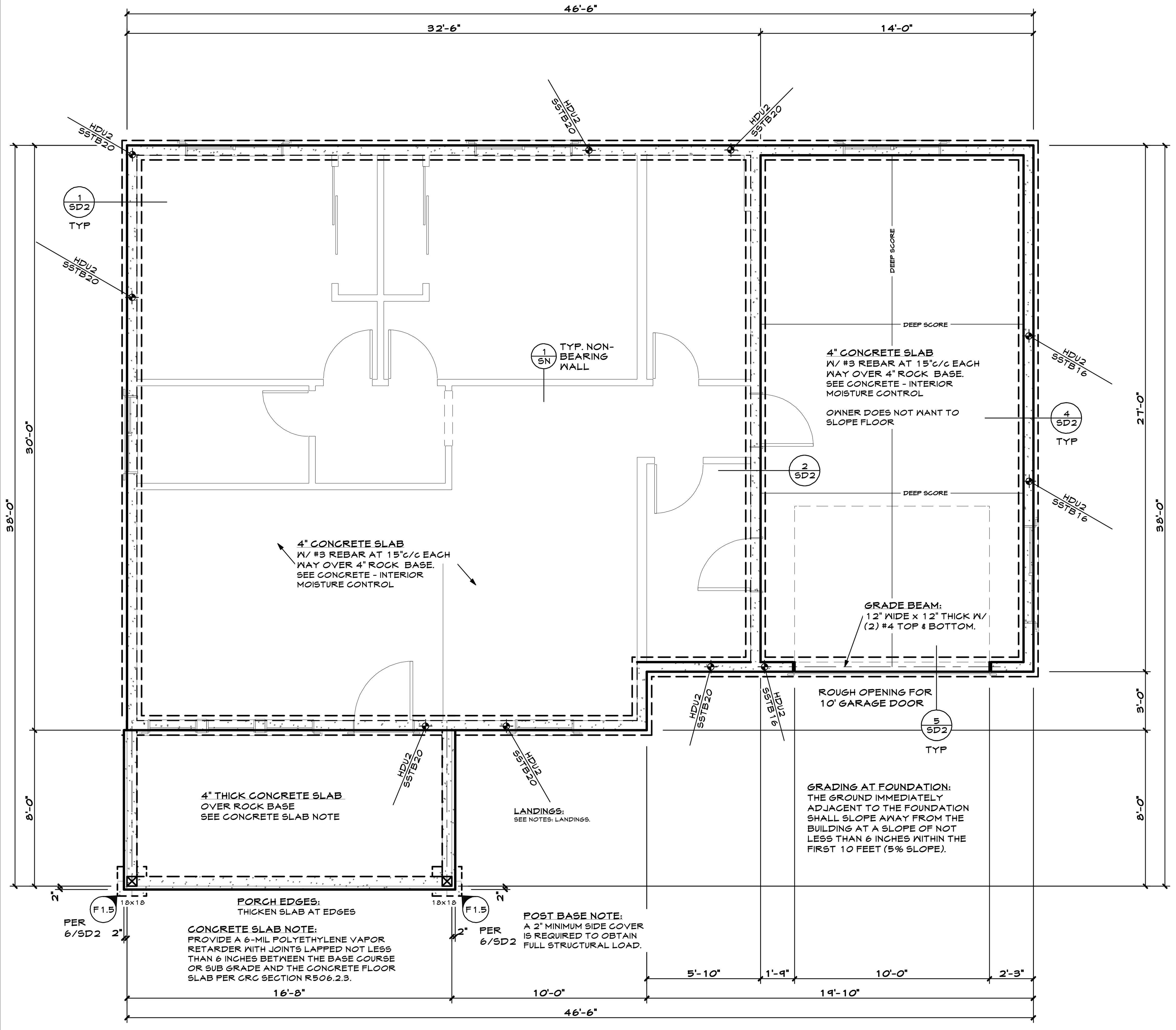


FOUNDATION PLAN

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

CONCRETE - INTERIOR MOISTURE CONTROL:
FOR INTERIOR MOISTURE CONTROL, A 6-MIL POLYETHYLENE VAPOR RETARDER WITH JOINTS LAPPED NOT LESS THAN 6 INCHES BETWEEN THE BASE COURSE OR SUB GRADE AND THE CONCRETE FLOOR SLAB PER CRC SECTION R506.2.3 (DWELLING AND GARAGE SLABS.) AND A "CAPILLARY BREAK".

CALGREEN SECTION 4.505.2.1. CAPILLARY BREAK:
A CAPILLARY BREAK SHALL BE INSTALLED IN COMPLIANCE WITH AT LEAST ONE OF THE FOLLOWING:
1) A 4-INCH THICK BASE OF 1/2 INCH OR LARGER CLEAN AGGREGATE SHALL BE PROVIDED WITH A VAPOR BARRIER IN DIRECT CONTACT WITH CONCRETE AND A CONCRETE MIX DESIGN, WHICH WILL ADDRESS BLEEDING, SHRINKAGE, AND CURLING, SHALL BE USED. FOR ADDITIONAL INFORMATION, SEE AMERICAN CONCRETE INSTITUTE, ACI 302.2R-06.
2) OTHER EQUIVALENT METHODS APPROVED BY THE ENFORCING AGENCY.
3) A SLAB DESIGN SPECIFIED BY A LICENSED DESIGN PROFESSIONAL.

FOUNDATION PLAN STRUCTURAL NOTES:
1.) SEE TYPICAL NOTE SHEET SN AND TYPICAL DETAIL SHEETS SD1-SD2 FOR ADDITIONAL INFORMATION.
2.) PROVIDE ANCHOR BOLT SIZE AND SPACING PER SHEAR WALL SCHEDULE AND TYPICAL DETAILS.
3.) RECOMMENDED MINIMUM SLAB SECTION:

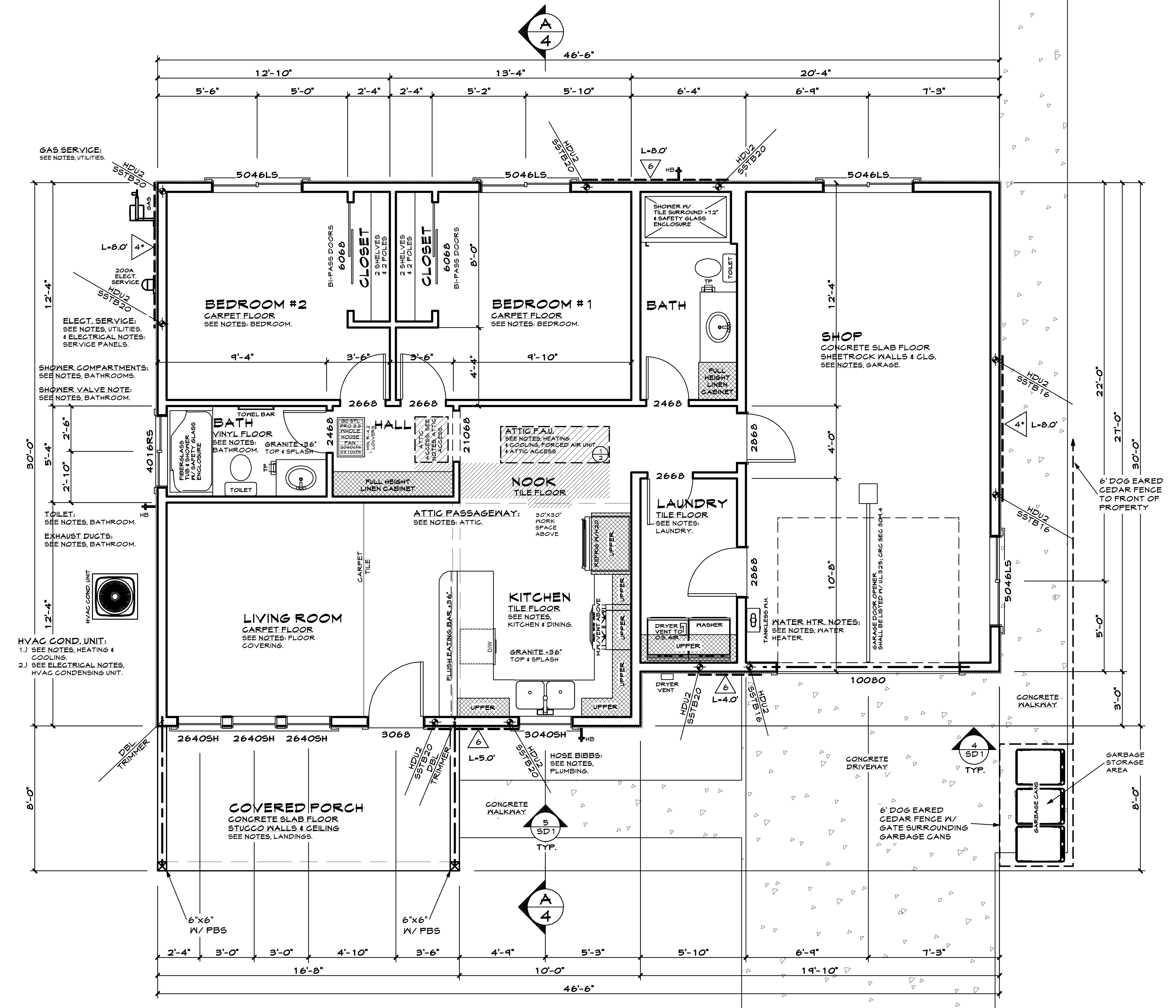
A- 4" CONCRETE SLAB WITH #3 AT 15" O.C. SECURELY LOCATED AT MID-DEPTH OF SLAB.
B- WATERPROOF MEMBRANE IN COMPLIANCE WITH ASTM E 1643 (DELETE AT EXTERIOR SLABS)-SEE SOILS REPORT IF APPLICABLE.
C- 4" FREE DRAINING MATERIAL-SEE SOILS REPORT IF APPLICABLE.
D- PROPERLY PREPARED SUBGRADE-SEE SOILS REPORT IF APPLICABLE.
E- CONTRACTOR TO PROVIDE CONTROL JOINTS AT 10'-0" O.C. EA. WAY MAX.

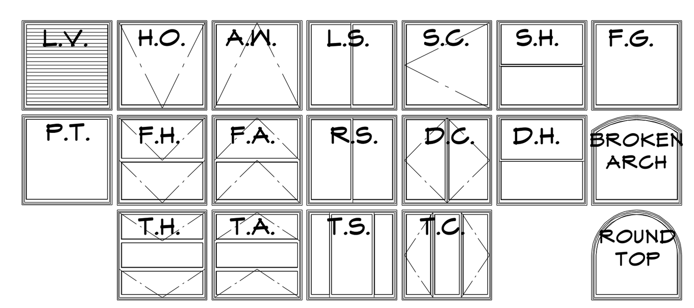
NOTE: CURING OF SLABS SHALL FOLLOW GUIDELINES PROVIDED BY THE AMERICAN CONCRETE INSTITUTE AND THE CALIFORNIA BUILDING CODE TO MINIMIZE SHRINKAGE CRACKING.

4.) TYPICAL MINIMUM BEARING WALL FRAMING U.N.O.:

EXTERIOR WALL: 2X6 DF STUD AT 16" O.C.
INTERIOR WALLS: 2X6 DF STUD AT 16" O.C.

5.) SEE DETAIL 5/SD1 FOR TYPICAL STUD WALL ELEVATION AND TYPICAL WALL OPENING SCHEDULE.
6.) PLUMBING, SPRINKLER, AND MECHANICAL SUBCONTRACTORS SHALL COORDINATE ALL WALL PENETRATIONS WITH FRAMING SUBCONTRACTOR.
7.) ANY DISCREPANCIES BETWEEN FRAMING SHOWN AND FIELD CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ENGINEER OF RECORD.
8.) ALL EXPOSED FRAMING SHALL BE PRESSURE TREATED WITH TREATMENT PROCESS AND APPLICATION APPROPRIATE FOR EXPOSURE ACCORDING TO MFR'S WRITTEN GUIDELINES.
9.) ALL STRUCTURAL MEMBERS SHALL BE FASTENED IN COMPLIANCE WITH 2016 CBC FASTENING SCHEDULE, TABLE 2304.10.1, UNLESS NOTED OTHERWISE.





WINDOW LABELS

FG FIXED GLASS		
SH SINGLE HUNG	DH DOUBLE HUNG	
SC SINGLE CASEMENT	DC DOUBLE CASEMENT	TC TRIPLE CASEMENT
LS LEFT SLIDING**	RS RIGHT SLIDING**	TS TRIPLE SLIDING**
AW SINGLE AWNING	FA DOUBLE AWNING	TA TRIPLE AWNING
HO HOPPER	FH DOUBLE HOPPER	TH TRIPLE HOPPER
LV LOUVERED	PT PASS THRU - NO GLASS	

**NOTE: WINDOWS ARE AS VIEWED FROM INSIDE LOOKING OUTWARD.

NOTE: HOLD TOP OF WINDOWS AT 8'-0". UNLESS NOTED OTHERWISE

THIS PLAN TO COMPLY WITH THE FOLLOWING:
- 2016 CALIFORNIA BUILDING CODE (CBC) - STRUCTURAL ONLY
- 2016 CALIFORNIA RESIDENTIAL CODE (CRC),
- 2016 CALIFORNIA MECHANICAL CODE (CMC),
- 2016 CALIFORNIA PLUMBING CODE (CPC),
- 2016 CALIFORNIA ELECTRICAL CODE (CEC),
- 2016 CALIFORNIA FIRE CODE (CFC),
- 2016 CALIFORNIA ENERGY CODE
- 2016 CALIFORNIA GREEN BUILDINGS STANDARDS CODE (COMMONLY CALLED "*CALGREEN*")

OCCUPANCY GROUP:
- OCCUPANCY IS R3/U

CONSTRUCTION TYPE:
- CONSTRUCTION TYPE IS VB

FIRE SPRINKLERS:
- REQUIRED, PLAN BY OTHERS.

FLOOR PLAN

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

FLOOR PLAN NOTES:
1.) NOTE: ALL NOTES ON THIS PLAN REFER TO THE NOTES, LOCATED ON SHEET 5.
2.) AUTOMATIC RESIDENTIAL FIRE SPRINKLERS ARE REQUIRED FOR THIS RESIDENCE (AND GARAGE) AS PER SECTION R313.3 OR NFPA 13D. DESIGN BY OTHERS. SEPARATE PERMIT WILL BE REQUIRED.
3.) SUBMIT FINAL CONSTRUCTION WASTE MANAGEMENT REPORT TO THE BUILDING DEPARTMENT PRIOR TO FINAL INSPECTION. CGBC 4.408
4.) SUBMIT RESIDENTIAL MANDATORY MEASURES CHECKLIST TO THE BUILDING DEPARTMENT. CGBC
5.) APPROVED CORROSION-RETARDANT FLASHING SHALL BE APPLIED SHINGLE-FASHION IN A MANNER TO PREVENT ENTRY OF WATER INTO THE WALL CAVITY OR PENETRATION OF WATER TO THE BUILDING STRUCTURAL FRAMING COMPONENTS. SELF-ADHERED MEMBRANES USED AS FLASHING SHALL COMPLY W/ AAMA 711. FLUID-APPLIED MEMBRANES USED AS FLASHING IN EXTERIOR WALLS SHALL COMPLY W/ AAMA 714. THE FLASHING SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH. CRC SECTION R703.4.
6.) PLATE HEIGHT TO BE 9' UNLESS NOTED OTHERWISE.
7.) TYPICAL WALL FRAMING, UNLESS NOTED OTHERWISE:
EXTERIOR WALLS: 2"x6" DF STUDS @ 16" c/c
INTERIOR WALLS: 2"x4" DF STUDS @ 16" c/c

NOTE:
ALL INSPECTION MUST BE HERS INSPECTED PRIOR TO ANY INTERIOR FINISHES BEING INSTALLED. ALL INSULATION MUST BE VISIBLE FOR THE HERS INSPECTOR.

FLOOR PLAN STRUCTURAL NOTES:
1.) SEE TYPICAL NOTE SHEET SN AND TYPICAL DETAIL SHEETS SD1-SD2 FOR ADDITIONAL INFORMATION.
2.) TYPICAL MINIMUM BEARING WALL FRAMING U.N.O.:

EXTERIOR WALL: 2X6 DF STUD AT 16" O.C.
INTERIOR WALLS: 2X6 DF STUD AT 16" O.C.

3.) SEE DETAIL 5/SD1 FOR TYPICAL STUD WALL ELEVATION AND TYPICAL WALL OPENING SCHEDULE.
4.) ANY DISCREPANCIES BETWEEN FRAMING SHOWN AND FIELD CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ENGINEER OF RECORD.
5.) ALL EXPOSED FRAMING SHALL BE PRESSURE TREATED WITH TREATMENT PROCESS AND APPLICATION APPROPRIATE FOR EXPOSURE ACCORDING TO MFR'S WRITTEN GUIDELINES.
6.) ALL STRUCTURAL MEMBERS SHALL BE FASTENED IN COMPLIANCE WITH 2016 CBC FASTENING SCHEDULE, TABLE 2304.10.1, UNLESS NOTED OTHERWISE.

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2	ROOF PLAN
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	HVAC CONNECTION DETAIL
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3	ELECTRICAL PLAN
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	WHOLE HOUSE VENTILATION
	ELECTRICAL LEGEND
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6	ENERGY CALCS
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	ASSESSORS MAP
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ARCH D (24" x 36")

WHILE EVERY ATTEMPT HAS BEEN MADE IN THE PREPARATION OF THIS PLAN TO AVOID MISTAKES, THE MAKER CANNOT GUARANTEE AGAINST HUMAN ERROR.

BUILDING CONTRACTOR / HOME OWNER TO REVIEW AND VERIFY ALL DIMENSIONS, SPECS, AND CONNECTIONS BEFORE CONSTRUCTION BEGINS.

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SUMMIT STRUCTURAL DESIGN

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CIVIL
STATE OF CALIFORNIA

3/3/2019

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THE ENGINEER'S STAMP ON THIS PLAN IS VALID ONLY WITH A LETTER SIGNED BY THIS ENGINEER FOR EACH UNIQUE BUILD.

A ADDITIONAL DWELLING for:
KYLIE BECHHOLD
1190 WARNER STREET, CHICO, CA 95926
ASSESSORS PARCEL NUMBER 003 - 053 - 010

FLOOR PLAN
FOUNDATION PLAN

LIVABLE:
958 SqFt TOTAL

GARAGE:
378 SqFt

COVERED PATIO:
133 SqFt

DATE:
3/3/2019

SCALE:
SHOWN

958
1 STORY

SHEET
1

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C:\Users\Lynn\Documents\Chief X10 Plans\Scott Bechhold - 1190 Warner Street\Bechhold 2nd Dwelling.layout
OWNER: KYLIE BECHHOLD

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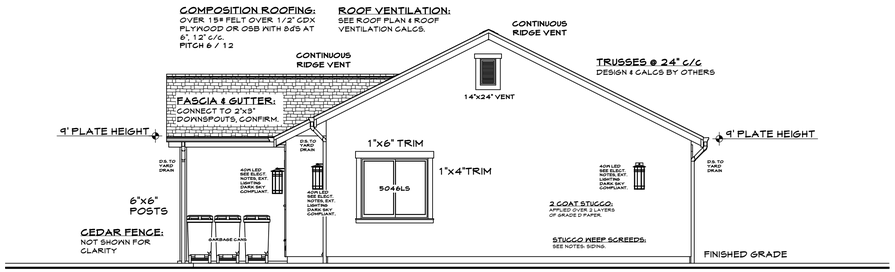
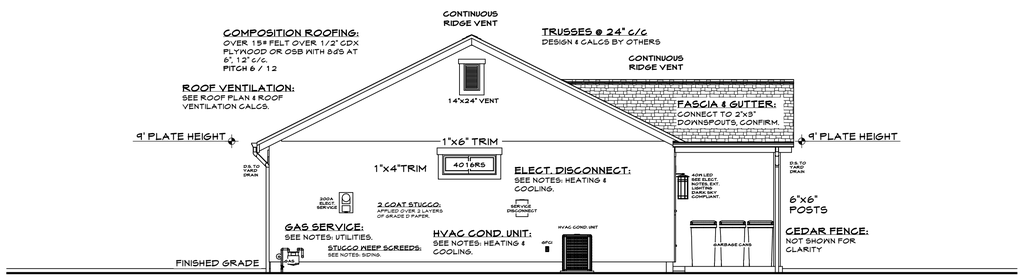
ATTACHMENT B



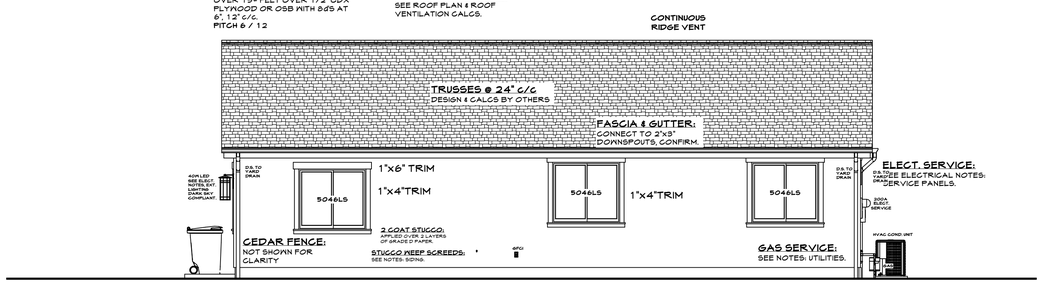
RIGHT SIDE ELEVATION

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



LEFTSIDE ELEVATION

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

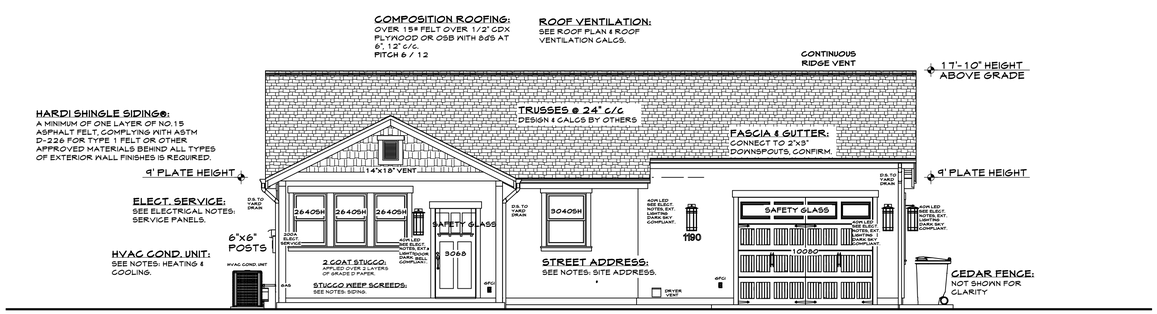


NOTE:
PROVIDE A MIN. OF (1) OUTDOOR SECURITY LIGHT FOR ILLUMINATION OF THE ALLEY. LIGHT SHALL BE SHIELDED & DIRECTED DOWNWARD & AWAY FROM ANY ADJACENT PROPERTIES.

REAR ELEVATION

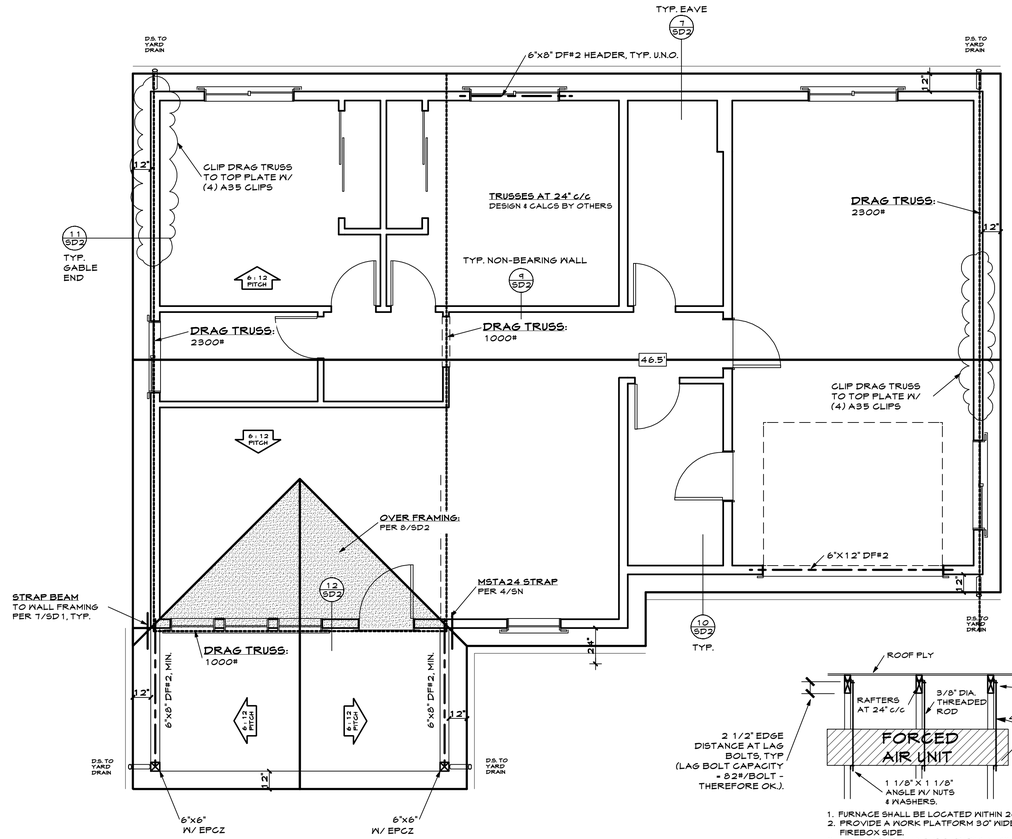
SCALE: 3/16" = 1'-0"

HVAC COND. UNIT:
SEE NOTES: HEATING & COOLING.



FRONT ELEVATION

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



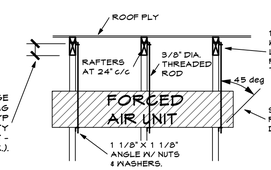
ROOF PLAN

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

PITCH 6 / 12

1) ROOF COVERING SHALL BE COMPOSITION ROOFING.
2) ROOF PITCH SHALL BE 6:12, TYPICAL.
3) ROOF OVERHANG SHALL BE 24" AT OVERHANG & 24" AT GABLE ENDS, UNLESS OTHERWISE NOTED.

SEE PAGE 4 FOR TRUSS LAYOUT



1. FURNACE SHALL BE LOCATED WITHIN 20' OF THE ATTIC ACCESS.
2. PROVIDE A WORK PLATFORM 30" WIDE IN FRONT OF THE ENTIRE FIREBOX SIDE.
3. PROVIDE PERMANENT ELECTRICAL OUTLET, A LIGHT SWITCHED AT THE ATTIC ACCESS, AND A FUEL GAS STUB SHALL BE PROVIDED NEAR THE FURNACE.

NOTE:
THE MAXIMUM WEIGHT OF THE F.A.U. & ACCESSORIES MOUNTED TO TRUSSES IS 200 LBS.

HVAC CONNECTION DETAIL

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

1/2

ATTIC VENTILATION CALCULATIONS

958	SQFT OF ATTIC
150	DIVIDED BY 150
6.39	SQFT OF REQUIRED NET FREE VENTILATION AREA (NFVA)
	RECTANGLE GABLE END VENTS
2.04	SQFT - (2) 14"x24" GABLE END VENT (1.47 SQ IN EACH) = 1.021 SQFT BY CONSTRUCTION METALS, INC. OR EQUAL
	RIDGE VENTS
5.88	SQFT - (47) LIN FT OR .4 RIDGE VENT (152 SQ IN/LIN FT) = 0.125 SQFT/LIN FT BY LOMANCO OMNI SERIES OR EQ.
7.92	SQFT OF UPPER NFVA
	RECTANGULAR EAVE VENTS
3.34	SQFT - (12) 3 1/2"X22 1/2" EAVE VENTS (40 SQ IN EACH) = 0.278 SQFT BY CONSTRUCTION METALS OR EQUAL
3.34	SQFT OF LOWER NFVA
11.26	TOTAL SQFT OF VENTS (NFVA)

PROVIDE THE ABOVE ATTIC VENTS

ROOF PLAN STRUCTURAL NOTES:

1.) SEE TYPICAL NOTE SHEET SN AND TYPICAL DETAIL SHEETS SD 1-SD2 FOR ADDITIONAL INFORMATION.
2.) TYPICAL ROOF SHEATHING (UNO): 1/2" THICK, APA, TEGO, OR PITTSBURGH RATED SHEATHING, SPAN RATING 32/16, EXPOSURE 1 STRUCTURAL PANELS, APPLIED WITH LONG DIMENSION ACROSS SUPPORTS AND ADJACENT PANELS STAGGERED WITH 4' ENDS OFFSET 4'. EDGE NAIL WITH 8d COMMON OR EQUIVALENT (0.131" DIA X 2 1/2") AT 6" O.C. AT ALL PANEL EDGES, BOUNDARIES, GABLE ENDS, BLOCKING AND WHERE INDICATED ON PLAN. FIELD NAIL AT 12" O.C. PROVIDE 1/8" GAP AT ALL PANEL EDGES U.N.O. BY PANEL MANUFACTURER. AT ALL LOW SLOPE ROOFS PROVIDE (1) PANEL CLIP MIN. BETWEEN SUPPORTS AT ABUTTING PANEL EDGES.
3.) SEE NOTE SECTION 8-SN FOR ROOF TRUSSES BY OTHERS.
4.) TYPICAL HEADER BELOW SHALL BE 6X8 DF-L #2 UNO.
5.) PROVIDE POS. ATTACHMENT OF ALL POST TO BEAM, BEAM TO BEAM, BEAM TO POST, AND POST TO POST CONN'S WITH (2) ST22 STRAPS MIN. AND A35 CLIPS, U.N.O. PER PLAN AND DETAILS.
6.) ANY DISCREPANCIES BETWEEN FRAMING SHOWN AND FIELD CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ENGINEER OF RECORD.
7.) ALL EXPOSED FRAMING SHALL BE PRESSURE TREATED WITH TREATMENT PROCESS AND APPLICATION APPROPRIATE FOR EXPOSURE ACCORDING TO MFR'S WRITTEN GUIDELINES.
8.) ROOF TRUSS LAYOUT SHALL BE REVIEWED BY ENGINEER AS TRUSS DESIGNS BECOME AVAILABLE FROM TRUSS MANUFACTURER. CONTRACTOR SHALL OBTAIN SIGNED TRUSS REVIEW LETTER FROM THE ENGINEER OF RECORD AND BUILDING DEPARTMENT APPROVAL PRIOR TO CONSTRUCTION.
9.) CONTRACTOR TO VERIFY THE LOCATION AND LOADING OF ALL TRUSS TO TRUSS BRACING AND MECHANICAL CONNECTIONS. IMMEDIATELY NOTIFY TRUSS COMPANY OF ANY DISCREPANCIES.
10.) ALL STRUCTURAL MEMBERS SHALL BE FASTENED IN COMPLIANCE WITH 2016 CBC FASTENING SCHEDULE, TABLE 2304.10.1, UNLESS NOTED OTHERWISE.

ARCH D (24" x 36")

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SUMMIT STRUCTURAL DESIGN

REGISTERED PROFESSIONAL ENGINEER
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Exp. 12/31/20
CIVIL
STATE OF CALIFORNIA

3/3/2019

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A ADDITIONAL DWELLING for:
KYLIE BECHHOLD
1190 WARNER STREET, CHICO, CA 95926
ASSESSORS PARCEL NUMBER 003 - 053 - 010

ROOF PLAN
ROOF VENTILATION CALCS
HVAC CONNECTION DETAIL
EXTERIOR ELEVATIONS

LIVABLE:
958 SqFt TOTAL

GARAGE:
378 SqFt

COVERED PATIO:
133 SqFt

DATE:
3/3/2019

SCALE:
SHOWN

958
1 STORY

SHEET
2

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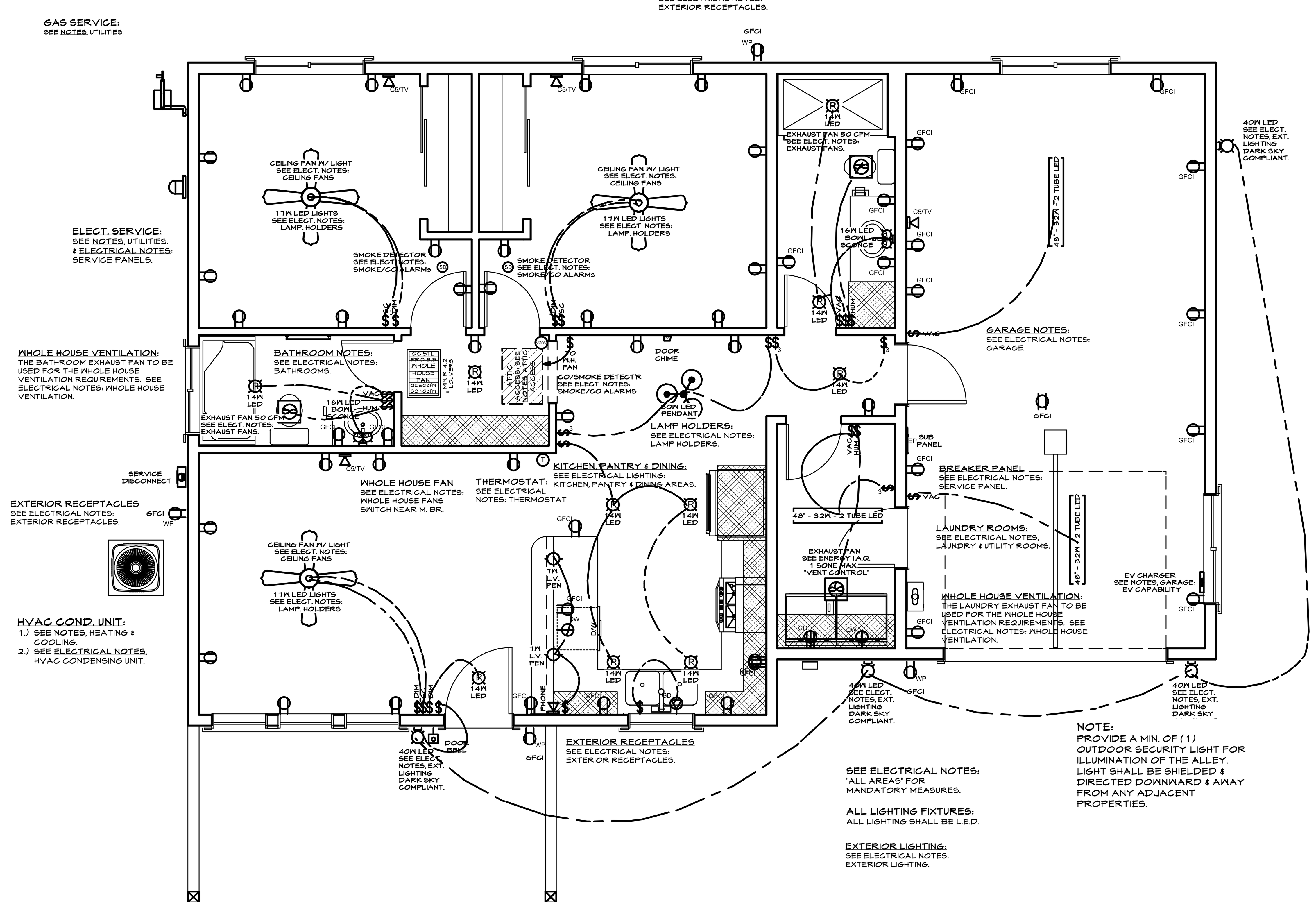
ELECTRICAL LEGEND

DESCRIPTION	SYMBOL
ELECTRICAL SERVICE METER, GAS SERVICE METER, ELECTRICAL DISCONNECT, SUB PANEL, DOOR CHIME, DOOR BELL, SETBACK THERMOSTAT, HOME SECURITY ALARM, AUDIO VISUAL CONTROL, CO/SMOKE DETECTOR & SMOKE DETECTOR. ALL HARDWIRED SMOKE/CO DETECTORS SHALL BE INTERCONNECTED.	EP SUB PANEL; SERVICE DISCONNECT; GAS SERVICE; 200A ELECT. SERVICE; AV Control; HOME SECURITY ALARM; T; DOOR BELL; DOOR CHIME; INTERCOM; SMOKE DETECTOR; CO/SMOKE DETECT'R
CEILING FANS: A FIXTURE THAT WEIGHS MORE THAN 6 LBS OR EXCEEDS 16" IN ANY DIMENSION SHALL NOT BE SUPPORTED BY THE SCREW SHELL OF A LAMP HOLDER. CEC SECTION 410.15 (A). OUTLET BOXES SHALL NOT BE USED AS THE SOLE SUPPORT. CEC SECTION 314.27 NOTE: PROVIDE SPEED CONTROL SWITCH & DIMMER SWITCH FOR FANS THAT HAVE LIGHT KITS.	
EXHAUST FAN, EXHAUST FAN W/ LIGHT & EXHAUST FAN W/ LIGHT & HEAT. LAUNDRY ROOM OR (1) BATHROOM FAN SHALL BE 70 CFM MIN. W/ A MAX. NOISE RATING OF 1 SONE. THE SWITCH SHALL BE LABELED "VENTILATION CONTROL". EACH BATHROOM FAN SHALL BE 50 CFM MIN. W/ A NOISE RATING OF 3 SONE MAX. BATHROOM FANS MUST BE HUMIDISTAT CONTROLLED CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF 50% TO 80%. CGBSC SEC. 4.506 BASE BOARD HEAT	EXHAUST/LIGHT/HEAT 11W LED LT - 1400W HT SEE ELECT. NOTES: EXHAUST FANS; EXHAUST FAN 50 CFM SEE ELECT. NOTES: EXHAUST FANS.; EXHAUST FAN/LIGHT 11W LED LIGHT SEE ELECT. NOTES: EXHAUST FANS.; 200W BASEB'D HEAT
CAT5 W/ TV, PHONE & TV JACKS	TV; PHONE; C5/TV
DRYER, WASHER, DISHWASHER, ELECT. RANGE, DISPOSAL, GAS COOKTOP, HOOD W/ VENT, MICROWAVE, OVEN, REFRIGERATOR, SAUNA, STEAM, TOWEL WARMER, TRASH COMPACTOR'	H; CT; GD; RA; DW; CW; CD; TC; TW; ST; SA; R; O; M
110 VOLT: DUPLEX, DUPLEX SPLIT WIRED, WEATHERPROOF DUPLEX, GFCI, SPLIT WIRED TRIPLEX & FLOOR DUPLEX. ALL SHALL BE TAMPER RESISTANT. 220 VOLT: 220v, WEATHERPROOF 220v	1/2 3PLEX; GFCI; WP GFCI; 1/2; WP 220v; 220v
SWITCHES: AIR SWITCH, GARBAGE DISPOSAL, OCCUPANCY, HUMIDISTAT, SWITCH, VACANCY SENSOR, DIMMER, SPEED CONTROL, WHOLE HOUSE FAN, 3-WAY, 3-WAY DIMMER, TIMER, WATERPROOF & SWITCH LABELED "VENTILATION CONTROL".	VENT CNTRL; WP; T; 3; DIM; 3; W.H. FAN; SC; DIM; VAC; HUM; OCC; GD
VACUUM OUTLET WALL MOUNTED VACUUM SYSTEM	CENTRAL VAC; VAC
CABINET MOUNTED LIGHTING: ABOVE CABINET PUCK, UNDER CABINET PUCK & UNDER CABINET STRIP LIGHTING.	36" 10W TUBE; 24" 8W TUBE; LV TAPE; 48" 14W TUBE; 2W PK; 2W PK ABOVE
RECESSED CEILING LIGHTING: MINI RECESSED, 4" CAN LIGHT, 6" CAN LIGHT & EYEBALL CAN LIGHT.	14W LED EYEBALL; 14W LED; 3W LED; 3W MINI
CEILING MOUNTED LIGHTING: CEILING FIXTURE, KEYLESS, KEYLESS W/ PULL CHORD, DUAL SPOT, TRIPOD SPOT LIGHT & DECORATIVE SPOT LIGHT.	DECO SPOT 19W; TRIPOD SPOT 19W; DUAL SPOT 40W; KEYLESS W/ P.C. 10W; KEYLESS 10W; 22W
CHANDELIER LIGHTING	65W LED PENDANT; 50W LED PENDANT; 20W LED PENDANT; 50W LED PENDANT; 30W LED W.I. CHANDELIER; 40W LED PENDANT; 30W LED PENDANT; 24W LED PENDANT; 26W LED W.I. CANDELABRA; 26W LED PENDANT; 10W LED WEIGHTED PENDANT
PENDANT LOW VOLTAGE LIGHTING	4W L.V.; 7W L.V. PEN
TRACK LIGHTING	21W LED 48" TRACK; 14W LED 24" TRACK; 30W LED CABLE LIGHTING; 24W LED TRACK CHANDELIER; 26W LED TRACK LIGHTING
TUBE LIGHTING	96" 2 TUBE FLUORESCENT SHOPLIGHT - 60W; 48" - 32W - 2 TUBE LED; FLUORESCENT SHOP - 32W; 64W - 4 TUBE LED; 96" (2) TUBE FLUORESCENT - 60W
WALL MOUNTED SCONCE LIGHTING	32W LED BOWL SCONCE; 24W LED BOWL SCONCE; 16W LED BOWL SCONCE; 8W LED BOWL SCONCE; 9W LED SCONCE
WALL ART LIGHTING	7W LED ART LIGHT
LIGHT BARS	24W LED V. LIGHT BAR; 24W LED LIGHT BAR
WALL READING LAMPS	40W LED SWIVEL READING; 10W LED SWING ARM READING; 10W LED PIVOT READING
EXTERIOR WALL LIGHTING & PATHWAY YARD LIGHTS	40W LED: SEE ELECT. NOTES, LIGHTS.; 40W LED SPOTS W/ MOTION SEE ELECT. NOTES, LIGHTS; 40W LED DUAL SPOT SEE ELECT. NOTES, LIGHTS; 10W LED SPOT SEE ELECT. NOTES, LIGHTS; 6W LED TULIP; 4W LED SPOT; 6W LED PATH; 6W LED PATH; 8W LED FLARE; 8W LED BOX



ELECTRICAL PLAN

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

LOCAL VENTILATION RATE SUMMARY - BATHROOMS
BATHROOM FAN FLOW = 50 CFM EACH
NUMBER OF BATHROOMS = 2
DUCT SIZE = 4 INCH

MAX. ALLOWABLE DUCT LENGTH = 70 FT.

LOCAL VENTILATION RATE SUMMARY - KITCHEN
KITCHEN FAN FLOW = 180 CFM
NUMBER OF KITCHENS = 1

DUCT SIZE = 8 INCH

MAX. ALLOWABLE DUCT LENGTH = NO LIMIT

WHOLE BUILDING VENTILATION RATE SUMMARY

PROVIDE WHOLE BUILDING INDOOR AIR QUALITY AS PER THE ENERGY CALCS LISTED UNDER IAQ (INDOOR AIR QUALITY) FANS.

MAX. ALLOWABLE DUCT LENGTH = NO LIMIT

ELECTRICAL NOTES

ELECTRICAL SHALL BE INSTALLED PER THE C.E.C.

ALL AREAS:

1.) REFER TO THE MANDATORY MEASURES FOR RESIDENTIAL LIGHTING MEASURES ATTACHED TO THE ENERGY COMPLIANCE DOCUMENTATION. THE LUMINARY FIXTURE TYPE OR CONTROL TYPE SHALL COMPLY WITH THE MANDATORY ENERGY LIGHTING REQUIREMENTS THROUGHOUT.
2. LIGHTING: ALL LIGHTING MUST BE HIGH EFFICACY LIGHTS IN ACCORDANCE WITH TABLE 150.0 (A) CEC SEC. 150.0 (K). ALL LIGHTING LOCATED IN WET LOCATIONS SHALL BE MARKED "SUITABLE FOR WET LOCATIONS" & ALL LIGHTS LOCATED IN DAMP LOCATIONS SHALL BE MARKED "SUITABLE FOR DAMP LOCATIONS". CEC ART. 410.10 (A)
3. LIGHTING CONTROL DEVICES: ALL LIGHTING CONTROL DEVICES & SYSTEMS, BALLASTS, AND LUMINARIES MUST MEET THE REQUIREMENTS OF CEC SECT. 110.9.
4.) BRANCH CIRCUITS: PROVIDE ARC-FAULT GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION TO ALL 120-VOLT, SINGLE PHASE, 15 AND 20-AMP BRANCH CIRCUITS SUPPLYING OUTLETS. CEC ART. 210.12 (A).
5.) RECEPTACLES: BELOW ALL 125-VOLT, SINGLE PHASE, 15 AND 20-AMP RECEPTACLES SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES. SEE CEC ART. 406.12.
6.) RECEPTACLE LOCATIONS: SHALL BE INSTALLED SO THAT NO POINT MEASURED HORIZONTALLY ALONG THE FLOOR LINE IN ANY WALL SPACE IS MORE THAN 6-FEET FROM A RECEPTACLE. ANY WALL SPACE 2-FEET OR MORE IN WIDTH AND UNBROKEN ALONG THE FLOOR LINE BY DOORWAYS AND SIMILAR OPENINGS SHALL HAVE A RECEPTACLE. CEC ART. 210.52 (A).
7.) LAMP HOLDERS: ALL SHALL BE SECURELY SUPPORTED. A FIXTURE THAT WEIGHS MORE THAN 6 POUNDS OR EXCEEDS 16 INCHES IN ANY DIMENSION SHALL NOT BE SUPPORTED BY THE SCREW SHELL OF A LAMP HOLDER PER CEC SECTION 314.23. OUTLET BOXES SHALL NOT BE USED AS THE SOLE SUPPORT FOR CEILING (PADDLE) FANS PER CEC SECTION 314.27 (A) & (D).
8.) WHOLE HOUSE FANS: PROVIDE INSULATED LOUVERS OR COVERS (MIN. R-4.2) WHICH CLOSE WHEN THE FAN IS OFF.
9.) CEILING FANS W/LIGHT: SHALL BE HIGH-EFFICACY W/ DIMMER SWITCH. MAINTAIN 36" CLEARANCE FROM ANY FIRE SPRINKLER.
10.) THERMOSTATS: SHALL BE PROGRAMMABLE TYPE WITH SETBACK CONTROLS.
11.) EXHAUST FANS: PROVIDE A MIN. OF 50 CFM FANS (20 CFM FOR CONTINUOUS VENTILATION) WITH BACKDRAFT DAMPERS AT ALL EXHAUST FANS.
12.) PROVIDE STUB FOR LANDSCAPE LIGHTING & IRRIGATION TIMER. (CONFIRM)
13.) ELECTRICAL SERVICE: PROVIDE 200 AMP. ELECTRICAL SERVICE MAIN. VERIFY LOCATION OF MAIN & SUB PANEL. PANEL BOARD(S) SHALL BE PROVIDED W/ A CIRCUIT DIRECTORY OR CIRCUIT IDENTIFICATION. CEC ART. 408.3 (F). EACH CIRCUIT & CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE. THE IDENTIFICATION SHALL INCLUDE AN APPROVED DEGREE OF DETAIL THAT ALLOWS EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS. SPARE POSITIONS THAT CONTAIN UNUSED OVERCURRENT DEVICES OR SWITCHES SHALL BE DESCRIBED ACCORDINGLY. THE IDENTIFICATION SHALL BE INCLUDED IN A CIRCUIT DIRECTORY THAT IS LOCATED ON THE FACE OR INSIDE OF THE PANEL DOOR IN THE CASE OF A PANELBOARD AND AT EACH SWITCH OR CIRCUIT BREAKER IN A SWITCHBOARD OR SWITCHGEAR. NO CIRCUIT SHALL BE DESCRIBED IN A MANNER THAT DEPENDS ON TRANSIENT CONDITIONS OF OCCUPANCY.

KITCHEN, PANTRY & DINING AREAS:

14.) KITCHEN LIGHTING: TOTAL WATTAGE OF PERMANENTLY INSTALLED LIGHTS ARE TO BE HIGH EFFICACY AS DEFINED IN TABLE 150-A.
15.) ISLAND OR PENINSULA: PROVIDE A GFCI COUNTERTOP RECEPTACLE AT THE END OF THE COUNTER. CEC ART. 210.52 (C) (2&3) AND ART. 210.8.
16.) SMALL APPLIANCE CIRCUITS: PROVIDE TWO OR MORE 20-AMPERE SMALL APPLIANCE BRANCH CIRCUITS EVENLY PROPORTIONED IN THE KITCHEN, PANTRY, BREAKFAST ROOM, DINING ROOM OR SIMILAR AREA TO SERVE ALL WALL AND FLOOR RECEPTACLE OUTLETS. SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS PER CEC ART. 210.52 (B).
17.) COUNTERTOP RECEPTACLES IN THE KITCHEN AND DINING ROOMS SHALL BE INSTALLED AT EACH WALL COUNTER SPACE THAT IS 12" OR WIDER. RECEPTACLE OUTLETS SHALL BE INSTALLED SO THAT NO POINT ALONG THE WALL LINE IS MORE THAN 24" MEASURED HORIZONTALLY FROM A RECEPTACLE OUTLET SPACE. CEC ART. 210.52 (C) (1). ALL KITCHEN COUNTERTOP 15 AND 20 AMP., 120 VOLT RECEPTACLES WILL BE GFCI PROTECTED.

LAUNDRY & UTILITY ROOMS:

18.) LAUNDRY & UTILITY ROOM RECEPTACLE OUTLETS: SHALL BE SUPPLIED BY AT LEAST ONE 20-AMPERE BRANCH CIRCUIT. SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS PER CEC ART. 210.11 (C) (2). ALL 125-VOLT, SINGLE-PHASE, 15 & 20 AMP RECEPTACLES SHALL BE GFCI. CEC ART. 210.8 (A).
19.) DRYER OUTLET: PROVIDE 4-WIRE RECEPTACLE FOR DRYER PER CEC.

BEDROOM:

20.) SMOKE DETECTORS: PROVIDE A SMOKE DETECTOR IN EACH BEDROOM & ON EACH FLOOR OF THE DWELLING.
SMOKE/CARBON MONOXIDE ALARMS: PROVIDE A HARDWIRED WITH BATTERY BACKUP SMOKE & CARBON MONOXIDE ALARM IN HALLWAYS ADJACENT TO BEDROOMS.
A) SMOKE & CARBON MONOXIDE ALARMS ARE TO BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS.
B.) FOR BEST RESULTS, USE DUAL IONIZATION & PHOTOELECTRIC SENSOR SMOKE ALARMS.
21.) CLOSETS LIGHTS: PER C.E.C..

BATHROOMS:

22.) BATHROOM RECEPTACLE OUTLETS: SHALL BE SUPPLIED BY AT LEAST ONE 20-AMPERE BRANCH CIRCUIT. SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS PER CEC ART. 210.11 (C) (3).
23.) BATHROOM LIGHTS: PROVIDE HIGH EFFICACY LIGHTING IN THE BATHROOM. PROVIDE A "MANUAL ON - AUTO OFF" OCCUPANCY LIGHT SWITCH.
24.) LIGHT FIXTURES IN TUB OR SHOWER ENCLOSURES: TO BE LABELED "SUITABLE FOR DAMP LOCATION" PER CEC ART. 410.10 (A) & (D).
25.) BATHROOM MECHANICAL EXHAUST FANS:
A.) FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING.
B.) UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY A HUMIDISTAT WHICH SHALL BE READILY ACCESSIBLE.
C.) HUMIDISTAT CONTROLS SHALL BE CAPABLE OF ADJUSTMENTS BETWEEN A RELATIVE HUMIDITY RANGE OF 50% TO 80%.
BATHROOM NOTE: FOR THE PURPOSES OF THIS NOTE, A BATHROOM IS A ROOM WHICH CONTAINS A BATHTUB, SHOWER OR TUB/SHOWER COMBINATION.
26.) WHOLE BUILDING VENTILATION: IF ONE OF THE BATHROOM EXHAUST FANS, IS USED AS THE QUALIFYING WHOLE-BUILDING VENTILATION FAN, SHALL COMPLY WITH THE FOLLOWING:
A.) A MINIMUM CFM RATING OF 75 CFM.
B.) BE RATED A MAXIMUM OF 1.0 SONE.
C.) THE CONTROL SWITCH MUST BE LABELED AS THE WHOLE-BUILDING VENTILATION & FAN SHOULD OPERATE WHENEVER THE HOME IS OCCUPIED.
27.) TOILET ROOMS: INSTALL FLUORESCENT OR OTHER C.E.C. APPROVED LIGHTING FIXTURES IN ROOMS WITH WATER CLOSETS.
28.) SMOKE ALARMS SHALL BE INSTALLED MORE THAN 3' HORIZONTALLY FROM THE DOOR OR OPENING OF A BATHROOM THAT CONTAINS A BATHTUB OR SHOWER. CRC R314.3.

GARAGE:

29.) GARAGE RECEPTACLES ARE REQUIRED TO BE GFCI PROTECTED. LIGHT SWITCH TO HAVE VACANCY SENSOR.. LIGHTS TO BE HIGH EFFICACY.
30.) GARAGE FIREWALL: PROVIDE A 24" SEPARATION BETWEEN RECEPTACLE & SWITCH BOXES IN THE FIREWALL. (BOXES IN SEPARATE STUD BAYS ARE ACCEPTABLE.)
31.) ALL OUTLET OR RECEPTACLE BOXES LOCATED ON OPPOSITE SIDES OF THE OCCUPANCY SEPARATION BETWEEN THE GARAGE AND THE RESIDENCE WILL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24".
32.) EV CAPABILITY: A LISTED RACEWAY SHALL BE INSTALLED TO ACCOMMODATE A DEDICATED 208/240-VOLT BRANCH CIRCUIT ORIGINATING AT THE MAIN SERVICE OR SUB PANEL & SHALL TERMINATE INTO A LISTED CABINET, BOX OR OTHER ENCLOSURE FOR THE FUTURE INSTALLATION & USE OF ELECTRIC VEHICLE (EV) CHARGERS. THE RACEWAY SHALL NOT BE LESS THAN 1" INSIDE DIAMETER & SHALL BE CONTINUOUS AT ENCLOSED, INACCESSIBLE, OR CONCEALED AREAS AND SPACES. THE SERVICE PANEL AND/OR SUBPANEL SHALL PROVIDE CAPACITY TO INSTALL A 40-AMP MINIMUM BRANCH CIRCUIT. THE RACEWAY TERMINATION LOCATION SHALL BE PERMANENTLY AND VISIBLY MARKED AS "EV CAPABLE". CGBC 4.106.4.2.3.

EXTERIOR:

33.) EXTERIOR RECEPTACLES: ALL OUTDOOR RECEPTACLES SHALL BE WP/GFCI PROTECTED. CEC ART. 210.8(3).
34.) EXTERIOR LIGHTING: ALL OUTDOOR LIGHTING TO BE HIGH EFFICACY AND CONTROLLED BY A MANUAL ON/OFF SWITCH AND ONE OF THE FOLLOWING: A) CONTROLLED BY A PHOTOCELL & MOTION SENSOR, OR B) PHOTO CONTROL, OR C) ASTRONOMICAL TIME CLOCK, OR D) ENERGY MANAGEMENT CONTROL SYSTEM (EMCS).
35.) CHRISTMAS LIGHTS RECEPTACLES: PROVIDE OUTLET NEAR TOP PLATE, SWITCHED @ FRONT DOOR - WP/GFCI PROTECTED.
36.) HVAC COND. UNIT: PROVIDE 220v ELECT. DISCONNECT W/ 30"x30" CLEAR WORKSPACE & 110v WP GFCI PROTECTED SERVICE RECEPTACLE WITHIN 25'.

ATTIC:

37.) PROVIDE LIGHTS, SWITCHES AND RECEPTACLE FOR MAINTENANCE OF MECHANICAL EQUIPMENT LOCATED IN ATTIC. 3/30/17

ARCH D (24" x 36")
WHILE EVERY ATTEMPT HAS BEEN MADE IN THE PREPARATION OF THIS PLAN TO AVOID MISTAKES, THE MAKER CANNOT GUARANTEE AGAINST HUMAN ERROR.
BUILDING CONTRACTOR / HOME OWNER TO REVIEW AND VERIFY ALL DIMENSIONS, SPECS, AND CONNECTIONS BEFORE CONSTRUCTION BEGINS.

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ENERGY CALCS BY: GOLDEN SUN DESIGNS MAX RAMIREZ
SUMMIT STRUCTURAL DESIGN

THESE PLANS HAVE BEEN REVIEWED ONLY FOR COMPLIANCE WITH ATTACHED STRUCTURAL CALCULATIONS.
THE ENGINEER'S STAMP ON THIS PLAN IS VALID ONLY WITH A LETTER SIGNED BY THIS ENGINEER FOR EACH UNIQUE BUILD.

A ADDITIONAL DWELLING for: KYLIE BECHHOLD

1190 WARNER STREET, CHICO, CA 95926
ASSESSORS PARCEL NUMBER 003 - 053 - 010

ELECTRICAL PLAN
ELECTRICAL NOTES
WHOLE HOUSE VENTILATION

LIVABLE: 958 SqFt TOTAL

GARAGE: 378 SqFt

COVERED PATIO: 133 SqFt

DATE: 3/3/2019

SCALE: SHOWN

958
1 STORY

SHEET 3

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C:\Users\Lynn\Documents\Chief X10 Plans\Scott Bechhold - 1190 Warner Street\Bechhold 2nd Dwelling.layout
OWNER: KYLIE BECHHOLD

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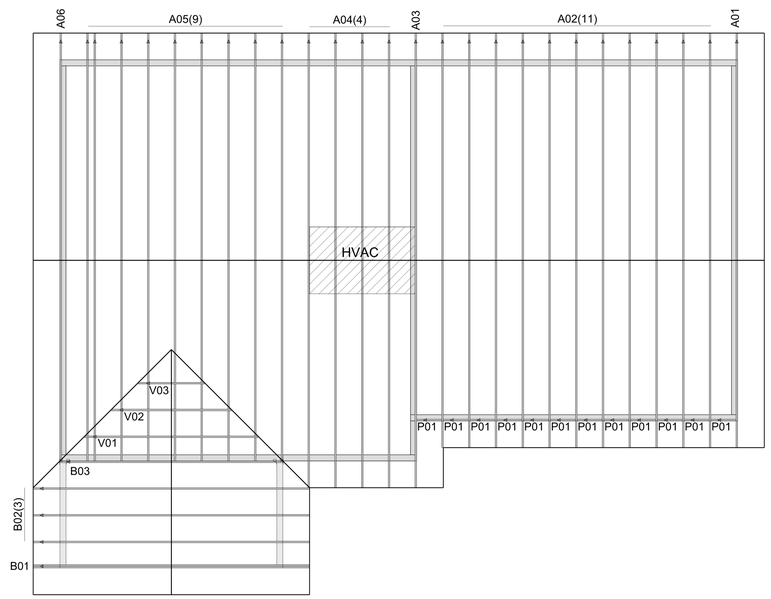
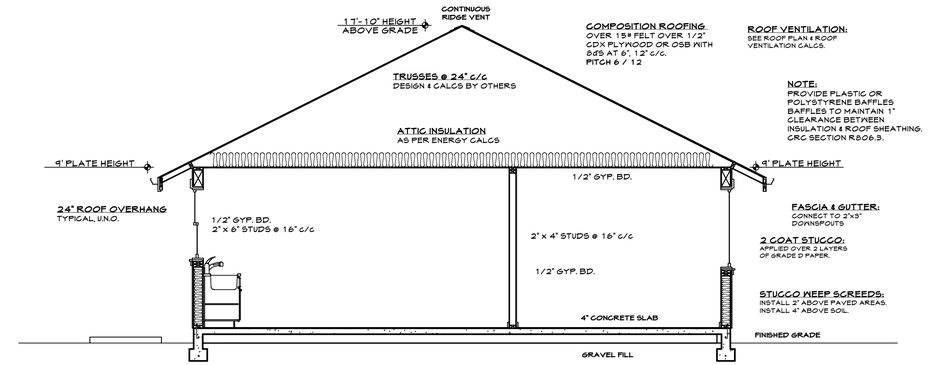


SYSTEMS PLUS LUMBER CO.
ARCHITECTURAL TRUSSES AND FRAMING COMPONENTS

Bechold
0717085
Chico,CA



A/4 SECTION A-4

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

ENERGY VALUES:
R-0 SLAB-ON-GRADE
R-23 BIBS INSULATION @ 2"x6" EXTERIOR WALLS
R-23 BIBS INSULATION @ 2"x6" DEMISING (GARAGE) WALLS
WINDOWS: LOW E, NON-METALLIC; U-FACTOR @ 0.32 MAX. SHGC @ 0.23 MAX.
R-49 ATTIC INSULATION
RADIANT BARRIER SHEATHING**
WATER HEATER: ON-DEMAND EFFICIENCY FACTOR 0.82 MIN.
WHOLE HOUSE FAN: QUIET COOL MODEL QC STL PRO 3.3
HVAC: FAU W/ 94% COOLING SEER @ 15 COOLING EER @ 13 R-8 DUCT INSULATION

**NOTE: RADIANT BARRIER TO ALSO BE INSTALLED ON ALL VERTICAL SURFACES & GABLE ENDS IN THE ATTIC.

NOTE:
ALL INSPECTION MUST BE HERS INSPECTED PRIOR TO ANY INTERIOR FINISHES BEING INSTALLED. ALL INSULATION MUST BE VISIBLE FOR THE HERS INSPECTOR.

(E) RESIDENCE FRONT ELEVATION

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

ARCH D (24" x 36")

WHILE EVERY ATTEMPT HAS BEEN MADE IN THE PREPARATION OF THIS PLAN TO AVOID MISTAKES THE MAKER CANNOT GUARANTEE AGAINST HUMAN ERROR.

BUILDING CONTRACTOR / HOME OWNER TO REVIEW AND VERIFY ALL DIMENSIONS, SPECS, AND CONNECTIONS BEFORE CONSTRUCTION BEGINS.

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A ADDITIONAL DWELLING for:
KYLIE BECHHOLD
1190 WARNER STREET, CHICO, CA 95926
ASSESSORS PARCEL NUMBER 003 - 053 - 010

SECTION A-4
TRUSS LAYOUT
(E) RESIDENCE FR ELEVATION
(E) RESIDENCE PHOTO

LIVABLE:
958 SqFt TOTAL

GARAGE:
378 SqFt

COVERED PATIO:
133 SqFt

DATE:
3/3/2019

SCALE:
SHOWN

958
1 STORY

SHEET
4

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NOTES

ATTIC:
ATTIC ACCESS: ATTIC AREAS HAVING A CLEAR HEIGHT OVER 30" SHALL BE PROVIDED WITH A 22"x30" MINIMUM SIZE OPENING. CRC R807.1 & CMC 904.10. THE ACCESS SIZE SHALL BE AT LEAST AS LARGE AS THE LARGEST ATTIC APPLIANCE. THE ACCESS SHALL BE LOCATED IN A HALLWAY OR OTHER READILY ACCESSIBLE LOCATION.
PASSAGEWAY: A 24" WIDE SOLID PASSAGEWAY FROM THE ACCESS ENTRANCE TO THE APPLIANCE.
LENGTH: WHERE THE PASSAGEWAY IS LESS THAN 6' IN HEIGHT, THE DISTANCE TO THE APPLIANCE SHALL NOT EXCEED 20' IN LENGTH. CPC 508.4.1.
WORKSPACE: A 30"x30" WORKING PLATFORM TO BE SUPPLIED AT THE SERVICE SIDE OF THE APPLIANCE. CPC 508.4
ATTIC VENTILATION: ATTICS & ENCLOSED RAFTER SPACES SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE. A MINIMUM OF 1" OF AIRSPACE IS REQUIRED BETWEEN THE INSULATION & THE ROOF SHEATHING. THE NET FREE VENTILATING AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE SPACE VENTILATED, WITH 50% OF THE VENTING LOCATED IN THE UPPER PORTION OF THE SPACE & THE BALANCE PROVIDED BY SOFFIT VENTS. CRC R806.1 & R806.2.
ATTIC LIGHTING & CONVENIENCE OUTLET: SEE "ELECTRICAL NOTES", ATTIC.

BATHROOM:
CEILING HEIGHTS: SEE CEILING HEIGHTS.
DRAINS: A 4" DRAIN IS REQUIRED FOR BUILDINGS PROVIDING MORE THAN 3 TOILETS. CPC TABLE 7-5 FOOTNOTE 4.
EXHAUST FANS: INSTALLED WITH A MINIMUM 50 CFM FOR INTERMITTENT VENTILATION OR 20 CFM FOR CONTINUOUS VENTILATION. FAN SHALL BE ENERGY STAR COMPLIANT & PROVIDED WITH HUMIDITY CONTROL & SHALL BE EQUIPPED WITH BACK-DRAFT DAMPERS. CMC 504.1 SEE ELECTRICAL NOTES, EXHAUST FANS.
EXHAUST DUCTS: TERMINATE OUTSIDE OF THE BUILDING W/ BACK-DRAFT DAMPERS. EXHAUST DUCTS SHALL TERMINATE 3' FROM PROPERTY LINE & 3' FROM OPENINGS INTO THE BUILDING.
FAUCETS: FLOW RESTRICTED TO 1.2 GPM @ 60 PSI. CGBSC 4.303.1.4.2.
JETTED TUBS: PROVIDE SERVICE ACCESS PANEL FOR TUB MOTOR. PROVIDE A GFCI BREAKER ON A INDIVIDUAL BRANCH CIRCUIT.
LAVATORIES: PROVIDE MIRROR AT LAVATORIES.
SHOWER COMPARTMENTS: WATERPROOF SURFACE TO +72". PROVIDE SAFETY GLASS ENCLOSURE, CURTAIN ROD OR WALK-THRU ENTRANCE TO SHOWER. MINIMUM FINISHED INTERIOR AREA OF 1024 SQ. INCHES & CAPABLE OF ENCOMPASSING A 30" CIRCLE.
SHOWER VALVE NOTE: SHOWERS AND TUB-SHOWER COMBINATIONS SHALL BE PROVIDED WITH INDIVIDUAL CONTROL VALVES OF THE PRESSURE BALANCE, THERMOSTATIC, OR COMBINATION PRESSURE BALANCE/THERMOSTATIC MIXING VALVE TYPE. CPC 408.3 SINGLE SHOWER HEAD FLOW RESTRICTED TO 1.8 GPM @ 80 PSI. CGBSC 4.303.1.3.1 MULTIPLE SHOWER HEADS: WHEN A SHOWER IS SERVED BY MORE THAN 1 SHOWER HEAD, THE COMBINED FLOW RATE OF ALL SHOWER HEADS SHALL NOT EXCEED 1.8 GPM @ 80 PSI, OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY 1 SHOWER OUTLET TO BE OPERATED AT A TIME. SHOWER HEAD POSITIONED SO IT DOES NOT DISCHARGE AT THE ENTRANCE OF THE SHOWER. CPC 408.9.
TOILETS: 1.28 GALLONS PER FLUSH MAXIMUM. DUAL FLUSH TOILETS DETERMINED BY AVERAGING 2 REDUCED FLUSHES & 1 FULL FLUSH. CGBSC 4.303.1.1. MAINTAIN 15" CLEARANCE FROM C/L OF TOILET TO SIDE WALL OR OBSTRUCTION. PROVIDE 24" MIN. CLEARANCE IN FRONT. CPC 402.5 & CRC R307.1.
TOILET PAPER HOLDER: PROVIDE BACKING @ 26" ABOVE FLOOR.
TOWEL BARS: PROVIDE BACKING FOR TOWEL BARS @ 44" ABOVE FLOOR.
URINALS: FLOW RESTRICTED TO 0.5 GALLONS PER FLUSH. CGBSC 4.303.1.2
WHOLE BUILDING VENTILATION: SEE "NOTES", WHOLE BUILDING VENTILATION FOR ADDITIONAL INFORMATION.
WINDOWS: PROVIDE SAFETY GLASS IF BOTTOM OF GLAZING IS LESS THAN 60" ABOVE A SHOWER OR TUB SURFACE & DRAIN INLET. CRC 308.4.5. EXCEPTION: GLAZING THAT IS MORE THAN 60", MEASURED HORIZONTALLY, FROM WATER'S EDGE. SEE "NOTES", GLAZING FOR ADDITIONAL GLAZING INFORMATION.

BEDROOMS:
FLOOR COVERING: SEE "NOTES", FLOOR COVERING FOR ADDITIONAL INFORMATION.
SMOKE/C.O. ALARMS: SEE "NOTES", SMOKE/C.O. ALARMS FOR ADDITIONAL INFORMATION.
SLEEPING ROOMS SHALL HAVE AT LEAST ONE EMERGENCY ESCAPE AND RESCUE OPENING, SUCH AS AN EXTERIOR OPERABLE WINDOW, DOOR OR SIMILAR DEVICE. CRC R310.1
WINDOWS: PROVIDE 1 DOOR OR BEDROOM WINDOW WITH A MIN. NET CLEAR OPENING OF 5.7 SQFT. EXCEPTION: GRADE FLOOR OPENING CAN HAVE A MIN. NET CLEAR OPENING OF 5.0 SQFT. CRC R310.1.
SILL HEIGHT: MAX. 44" ABOVE FLOOR
MIN. OPENING HEIGHT: 24".
MIN. OPENING WIDTH: 20"
WINDOWS MORE THAN 72" ABOVE THE FINISHED GRADE & HAVING OPENINGS LOCATED WITHIN 24" OF THE FINISHED FLOOR TO BE PROVIDED WITH WINDOW FALL PREVENTION DEVICES OR OPENING CONTROL DEVICES THAT COMPLY WITH ASTM F 2090. CRC R312.2.1.

CEILING HEIGHTS:
HABITABLE SPACE: HABITABLE SPACE, HALLWAYS & PORTIONS OF BASEMENTS CONTAINING THESE SPACES SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 7'. BATHROOMS, TOILET ROOMS & LAUNDRY ROOMS SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 6'-8".
EXCEPTIONS:
1.) FOR ROOMS WITH SLOPED CEILINGS, THE REQUIRED FLOOR AREA OF THE ROOM SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 5' & NOT LESS THAN 50% OF THE REQUIRED FLOOR AREA SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 7.
2.) A SHOWER OR TUB WITH A SHOWERHEAD SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 6'-8" ABOVE AN AREA OF NOT LESS THAN 30" BY 30" AT THE SHOWERHEAD.
3.) BEAMS, GIRDERS, DUCTS OR OTHER OBSTRUCTIONS IN BASEMENTS CONTAINING HABITABLE SPACE SHALL BE PERMITTED TO PROJECT TO WITHIN 6'-4" OF THE FINISHED FLOOR.

CONSTRUCTION WASTE MANAGEMENT:
1. CONSTRUCTION WASTE MANAGEMENT: RECYCLE AND/OR SALVAGE A MINIMUM OF 65% OF THE NON-HAZARDOUS CONSTRUCTION & DEMOLITION WASTE. CGBC 4.408.1.
2. CONSTRUCTION WASTE MANAGEMENT PLAN: SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN. THE CONSTRUCTION WASTE MANAGEMENT PLAN SHALL BE UPDATED AS NECESSARY & SHALL BE AVAILABLE DURING CONSTRUCTION FOR EXAMINATION BY THE ENFORCING AGENCY. CGBC 4.408.2
3. WASTE MANAGEMENT COMPANY: UTILIZE A WASTE MANAGEMENT COMPANY, APPROVED BY THE ENFORCING AGENCY, WHICH CAN PROVIDE VERIFIABLE DOCUMENTATION THAT THE PERCENTAGE OF CONSTRUCTION & DEMOLITION WASTE MATERIAL DIVERTED FROM THE LANDFILL COMPLIES WITH SECTION 4.408.1. NOTE: THE OWNER OR CONTRACTOR MAY MAKE THE DETERMINATION IF THE CONSTRUCTION & DEMOLITION WASTE MATERIALS WILL BE DIVERTED BY A WASTE MANAGEMENT COMPANY.
4. WASTE STREAM REDUCTION ALTERNATIVE: PROJECTS THAT GENERATE A TOTAL COMBINED WEIGHT OF CONSTRUCTION & DEMOLITION WASTE DISPOSED OF IN LANDFILLS, WHICH DO NOT EXCEED FOUR (4) LBS./SQ. FT. OF THE BUILDING AREA SHALL MEET THE MINIMUM 50 PERCENT CONSTRUCTION WASTE REDUCTION REQUIREMENT IN SECTION 4.408.1.
5. DOCUMENTATION: DOCUMENTATION SHALL BE PROVIDED TO THE ENFORCING AGENCY WHICH DEMONSTRATES COMPLIANCE WITH CGBC 4.408.2.

EMERGENCY ESCAPE & RESCUE:
SEE "NOTES", BEDROOM, WINDOWS FOR ADDITIONAL INFORMATION.

EGRESS:
EGRESS DOOR: AT LEAST ONE EGRESS DOOR SHALL BE PROVIDED. THE EGRESS DOOR SHALL BE SIDE-HINGED, & SHALL PROVIDE A MINIMUM CLEAR WIDTH OF 32" WHEN MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. THE MINIMUM CLEAR HEIGHT OF THE DOOR OPENING SHALL NOT BE LESS THAN 78" IN HEIGHT MEASURED FROM THE TOP OF THE THRESHOLD TO THE BOTTOM OF THE STOP. CRC R311.2
LANDINGS: THERE SHALL BE A LANDING OR FLOOR ON EACH SIDE OF EACH EXTERIOR DOOR. THE WIDTH OF EACH LANDING SHALL NOT BE LESS THAN THE DOOR SERVED. EVERY LANDING SHALL HAVE A MINIMUM DIMENSION OF 36" MEASURED IN THE DIRECTION OF TRAVEL. EXTERIOR LANDINGS SHALL BE PERMITTED TO HAVE A SLOPE NOT TO EXCEED 1/4 UNIT VERTICAL IN 12 UNITS HORIZONTAL (2%). CRC R311.3 THE LANDING OR FLOOR ON THE EXTERIOR SIDE SHALL NOT BE MORE THAN 7 3/4" BELOW THE TOP OF THE THRESHOLD PROVIDED THE DOOR DOES NOT SWING OVER THE LANDING OR FLOOR. CRC R311.3.1. SEE "NOTES", LANDINGS FOR ADDITIONAL INFORMATION.
STAIRWAYS: STAIRWAYS SHALL NOT BE LESS THAN 36" IN CLEAR WIDTH AT ALL POINTS ABOVE THE PERMITTED HANDRAIL HEIGHT AND BELOW THE REQUIRED HEADROOM HEIGHT. HANDRAILS SHALL NOT PROJECT MORE THAN 4.5" ON EITHER SIDE OF THE STAIRWAY AND THE MINIMUM CLEAR WIDTH OF THE STAIRWAY AT AND BELOW THE HANDRAIL HEIGHT, INCLUDING TREADS AND LANDINGS, SHALL NOT BE LESS THAN 31 1/2" WHERE A HANDRAIL IS INSTALLED ON ONE SIDE AND 27" WHERE HANDRAILS ARE PROVIDED ON BOTH SIDES. CRC R311.7 SEE "NOTES", STAIRS, HANDRAILS & GUARDS FOR ADDITIONAL INFORMATION.

ENVIRONMENTAL QUALITY:
PROVIDE MEANS OF REDUCING THE QUANTITY OF AIR CONTAMINANTS THAT ARE ODOROUS, IRRITATING AND/OR HARMFUL TO THE COMFORT & WELL BEING OF A BUILDING'S INSTALLERS, OCCUPANTS & NEIGHBORS.
1. FINISH MATERIAL POLLUTANT CONTROL: FINISH MATERIALS SHALL COMPLY WITH CGBC 4.504.2.1 ADHESIVES, SEALANTS & CAULKS. ADHESIVES, SEALANTS & CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
A. ADHESIVES, ADHESIVE BONDING PRIMERS, ADHESIVE PRIMERS, SEALANTS, SEALANT PRIMERS, & CAULKS SHALL COMPLY WITH LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY MANAGEMENT DISTRICT RULES WHERE APPLICABLE OR SCAQMD RULE 1168 VOC LIMITS, AS SHOWN IN TABLE 4.504.1 OR 4.504.2, AS APPLICABLE. SUCH PRODUCTS ALSO SHALL COMPLY WITH THE RULE 1168 PROHIBITION ON THE USE OF CERTAIN TOXIC COMPOUNDS (CHLOROFORM, ETHYLENE DICHLORIDE, METHYLENE CHLORIDE, PERCHLOROETHYLENE & TRICHLOROETHYLENE).
B. AEROSOL ADHESIVES & SMALLER UNIT SIZES OF ADHESIVES, & SEALANT OR CAULKING COMPOUNDS (IN UNITS OF PRODUCT, LESS PACKAGING, WHICH DO NOT WEIGH MORE THAN 1 POUND & DO NOT CONSIST OF MORE THAN 16 FLUID OUNCES) SHALL COMPLY WITH STATEWIDE VOC STANDARDS & OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS, OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94507.
2. PAINTS & COATINGS: CGBC 4.504.2.2 ARCHITECTURAL PAINTS & COATINGS SHALL COMPLY WITH VOC LIMITS IN TABLE 1 OF THE ARB ARCHITECTURAL SUGGESTED CONTROL MEASURE, AS SHOWN IN TABLE 4.504.3, UNLESS MORE STRINGENT LOCAL LIMITS APPLY. THE VOC CONTENT LIMIT FOR COATINGS THAT DO NOT MEET THE DEFINITIONS FOR THE SPECIALTY COATINGS CATEGORIES LISTED IN TABLE 4.504.3 SHALL BE DETERMINED BY CLASSIFYING THE COATING AS A FLAT, NONFLAT OR NONFLAT-HIGH GLOSS COATING, BASED ON ITS GLOSS, AS DEFINED IN SUBSECTIONS 4.21, 4.36, & 4.37 OF THE 2007 CALIFORNIA AIR RESOURCES BOARD, SUGGESTED CONTROL MEASURE, & THE CORRESPONDING FLAT, NONFLAT OR NONFLAT-HIGH GLOSS VOC LIMIT IN TABLE 4.504.3 SHALL APPLY.
3. AEROSOL PAINTS & COATINGS: CGBC 4.504.2.3 AEROSOL PAINTS & COATINGS SHALL MEET THE PRODUCT-WEIGHTED MIR LIMITS FOR ROC IN SECTION 94522(A)(3) & OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS & OZONE DEPLETING SUBSTANCES, IN SECTIONS 94522(C)(2) & (D)(2) OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94520; & IN AREAS UNDER THE JURISDICTION OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT ADDITIONALLY COMPLY WITH THE PERCENT VOC BY WEIGHT OF PRODUCT LIMITS OF REGULATION 8, RULE 49.
4. VERIFICATION: 4.504.2.4 VERIFICATION OF COMPLIANCE WITH THIS SECTION SHALL BE PROVIDED AT THE REQUEST OF THE ENFORCING AGENCY. DOCUMENTATION MAY INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING:
A. MANUFACTURER'S PRODUCT SPECIFICATION.
B. FIELD VERIFICATION OF ON-SITE PRODUCT CONTAINERS.
5. INTERIOR MOISTURE CONTROL:
A. CONCRETE SLAB FOUNDATIONS: 4.505.2 CONCRETE SLAB FOUNDATIONS REQUIRED TO HAVE A VAPOR RETARDER BY THE CALIFORNIA BUILDING CODE, CHAPTER 19 OR CONCRETE SLAB-ON-GROUND FLOORS REQUIRED TO HAVE A VAPOR RETARDER BY THE CALIFORNIA RESIDENTIAL CODE, CHAPTER 5, SHALL ALSO COMPLY WITH THIS SECTION.
B. CAPILLARY BREAK: CGBC 4.505.2.1 A CAPILLARY BREAK SHALL BE INSTALLED IN COMPLIANCE WITH AT LEAST ONE OF THE FOLLOWING:
1.) A 4" THICK (101.6 RNRN) BASE OF L/ZINCH (12.7 MM) OR LARGER CLEAN AGGREGATE SHALL BE PROVIDED WITH A VAPOR RETARDER IN DIRECT CONTACT WITH CONCRETE & A CONCRETE MIX DESIGN, WHICH WILL ADDRESS BLEEDING, SHRINKAGE, & CURLING, SHALL BE USED. FOR ADDITIONAL INFORMATION, SEE AMERICAN CONCRETE INSTITUTE, ACI 302.2R-06.
2.) OTHER EQUIVALENT METHODS APPROVED BY THE ENFORCING AGENCY.
3.) A SLAB DESIGN SPECIFIED BY A LICENSED DESIGN PROFESSIONAL.
C. MOISTURE CONTENT OF BUILDING MATERIALS: CGBC 4.505.3 BUILDING MATERIALS WITH VISIBLE SIGNS OF WATER DAMAGE SHALL NOT BE INSTALLED. WALL & FLOOR FRAMING SHALL NOT BE ENCLOSED WHEN THE FRAMING MEMBERS EXCEED 19% MOISTURE CONTENT. MOISTURE CONTENT SHALL BE VERIFIED IN COMPLIANCE WITH THE FOLLOWING:
A. MOISTURE CONTENT SHALL BE DETERMINED WITH EITHER A PROBE-TYPE OR CONTACT-TYPE MOISTURE METER. EQUIVALENT MOISTURE VERIFICATION METHODS MAY BE APPROVED BY THE ENFORCING AGENCY & SHALL SATISFY REQUIREMENTS FOUND IN CGBC101.8.
B. MOISTURE READINGS SHALL BE TAKEN AT A POINT 2' TO 4' FROM THE GRADE STAMPED END OF EACH PIECE TO BE VERIFIED.
C. AT LEAST THREE RANDOM MOISTURE READINGS SHALL BE PERFORMED ON WALL & FLOOR FRAMING WITH DOCUMENTATION ACCEPTABLE TO THE ENFORCING AGENCY PROVIDED AT THE TIME OF APPROVAL TO ENCLOSE THE WALL & FLOOR FRAMING.
D. INSULATION PRODUCTS WHICH ARE VISIBLY WET OR HAVE A HIGH MOISTURE CONTENT SHALL BE REPLACED OR ALLOWED TO DRY PRIOR TO ENCLOSURE IN WALL OR FLOOR CAVITIES. WET -APPLIED INSULATION PRODUCTS SHALL FOLLOW THE MANUFACTURERS' DRYING RECOMMENDATIONS PRIOR TO ENCLOSURE.

FIRE SPRINKLER SYSTEM:
AN AUTOMATIC RESIDENTIAL FIRE SPRINKLER SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13D OR CRC SECTION R313.3.. DESIGN BY OTHERS.
EXCEPTION: AUTOMATIC FIRE SPRINKLER SYSTEM IS NOT BE REQUIRED FOR ADDITIONS OR ALTERATIONS TO EXISTING BUILDINGS THAT ARE NOT ALREADY PROVIDED WITH AN AUTOMATIC RESIDENTIAL SPRINKLER SYSTEM. CRC R313.2.

FIREPLACES:
GAS FIREPLACE: SHALL BE DIRECT-VENT SEALED-COMBUSTION TYPE. ALL FACTORY BUILT FIREPLACES SHALL BE LISTED AND LABELED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE CONDITIONS OF THE LISTING. FIREPLACES SHALL BE TESTED IN ACCORDANCE WITH UL 127. THE INSTALLATION MANUAL SHALL BE AVAILABLE FOR REVIEW BY THE BUILDING INSPECTOR UPON REQUEST. CGBC 4.503.1, CRC R1004 & 1005, CMC 908.2.
WOOD STOVES & PELLET STOVES: INSTALL AS PER MFG. SPECS & COMPLY WITH U.S. EPA PHASE II EMISSION LIMITS & HAVE PERMANENT NSPS LABEL CERTIFYING EMISSION LIMITS.
WOOD STOVE FLUE: TO EXTEND NOT LESS THAN 3' ABOVE THE HIGHEST POINT WHERE IT PASSES THROUGH A ROOF AND NOT LESS THAN 2' HIGHER THAN A PORTION OF A BUILDING WITHIN A HORIZONTAL DISTANCE OF 10'. CMC 802.5.4
FIREPLACES, WOODSTOVES & PELLET STOVES: SHALL ALSO COMPLY WITH APPLICABLE LOCAL ORDINANCES.
FIRE BLOCKING: PROVIDE FIRE BLOCKING AT PLATE LINE OF FIREPLACE. R302.11.4

FIRE-RESISTANT CONSTRUCTION:
2.) UNDER-STAIR PROTECTION: ENCLOSED ACCESSIBLE SPACE UNDER STAIRS SHALL HAVE WALLS, UNDER-STAIR SURFACE AND ANY SOFFITS PROTECTED ON THE ENCLOSED SIDE WITH 1/2" GYPSUM BOARD.
3.) FIREBLOCKING: IN COMBUSTIBLE CONSTRUCTION, FIREBLOCKING SHALL BE PROVIDED
TO CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND TO FORM AN EFFECTIVE FIRE BARRIER BETWEEN STORIES, AND BETWEEN A TOP STORY AND THE ROOF SPACE.
FIREBLOCKING SHALL BE PROVIDED IN WOOD-FRAME CONSTRUCTION IN THE FOLLOWING LOCATIONS:
A. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS, AS FOLLOWS:
1) VERTICALLY AT THE CEILING AND FLOOR LEVELS.
2) HORIZONTALLY AT INTERVALS NOT EXCEEDING 10'.
B. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS AND COVE CEILINGS.
C. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN. ENCLOSED SPACES UNDER STAIRS SHALL COMPLY WITH SECTION R302.7.
D. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES AND WIRES AT CEILING AND FLOOR LEVEL, WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME AND PRODUCTS OF COMBUSTION. THE MATERIAL FILLING THIS ANNULAR SPACE SHALL NOT BE REQUIRED TO MEET THE ASTM E 136 REQUIREMENTS.
E. FOR THE FIREBLOCKING OF CHIMNEYS AND FIREPLACES, SEE SECTION R1003.19.

FLOOD ZONE:
FOR PROPERTIES LOCATED IN A FLOOD ZONE A:
1.) PROVIDE TWO COMPLETED FEMA FLOOD ELEVATION CERTIFICATES PREPARED BY A CALIFORNIA REGISTERED PROFESSIONAL OR LAND SURVEYOR.
2.) IF REQUIRED, PROVIDE FLOOD RESISTANT CONSTRUCTION. CRC R322.
3.) IF REQUIRED, THE BOTTOM OF FLOOD VENTS (FV) SHALL BE NO HIGHER THAN 1 FOOT ABOVE GRADE.
4.) IF REQUIRED, PROVIDE AT LEAST TWO 6"x14" GARAGE VENTS (GV) IN EXTERIOR GARAGE WALLS, LOCATED ON OPPOSITE SIDES OF ADJACENT WALLS WITH A TOTAL NET AREA OF NOT LESS THAN 1 SQUARE INCH FOR EVERY SQUARE FOOT OF ENCLOSED AREA. THE BOTTOM OF THE OPENING SHALL BE NO HIGHER THAN 1' ABOVE GRADE.
5.) A FINISHED CONSTRUCTION FLOOD ELEVATION CERTIFICATE IS REQUIRED PRIOR TO FINAL APPROVAL OF THIS STRUCTURE.

FLOORING COVERING:
CARPET SYSTEMS: ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE TESTING & PRODUCT REQUIREMENTS OF ONE OF THE FOLLOWING: CGBC 4.504.3
1.) CARPET & RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM.
2.) CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING & EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.1, FEBRUARY 2010 (AKA SPECIFICATION 01350.)
3.) NSF/ANSI 140 AT THE GOLD LEVEL.
4.) SCIENTIFIC CERTIFICATIONS SYSTEMS INDOOR ADVANTAGE™ GOLD.
CARPET CUSHION: ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CARPET & RUG INSTITUTE'S GREEN LABEL PROGRAM. CGBC 4.504.3.1
CARPET ADHESIVE: ALL CARPET ADHESIVE SHALL MEET THE REQUIREMENTS OF TABLE 4.504.1. CGBC 4.504.3.2
RESILIENT FLOORING SYSTEMS: WHERE RESILIENT FLOORING IS INSTALLED, AT LEAST 80 PERCENT OF FLOOR AREA RECEIVING RESILIENT FLOORING SHALL COMPLY WITH ONE OR MORE OF THE FOLLOWING: CGBC 4.504.4
1.) A VOC EMISSION LIMITS DEFINED IN THE COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CHPS) HIGH PERFORMANCE PRODUCTS DATABASE.
2.) PRODUCTS COMPLIANT WITH CHPS CRITERIA CERTIFIED UNDER THE GREENGUARD CHILDREN & SCHOOLS PROGRAM.
3.) CERTIFICATION UNDER THE RESILIENT FLOOR COVERING INSTITUTE (RFCI) FLOOR SCORE PROGRAM.
4.) MEET THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING & EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.1, FEBRUARY 2010 (AKA SPECIFICATION 01350).
COMPOSITE WOOD PRODUCTS: HARDWOOD PLYWOOD, PARTICLEBOARD & MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET THE REQUIREMENTS FOR FORMALDEHYDE AS SPECIFIED IN ARB'S AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD (17 CCR 93120 ET SEQ.), BY OR BEFORE THE DATES SPECIFIED IN THOSE SECTIONS, AS SHOWN IN TABLE 4.504.5. CGBC 4.504.5
DOCUMENTATION: VERIFICATION OF COMPLIANCE WITH THIS SECTION SHALL BE PROVIDED AS REQUESTED BY THE ENFORCING AGENCY. DOCUMENTATION SHALL INCLUDE AT LEAST ONE OF THE FOLLOWING: CGBC 4.504.5.1
1.) PRODUCT CERTIFICATIONS & SPECIFICATIONS.
2.) CHAIN OF CUSTODY CERTIFICATIONS.
3.) PRODUCT LABELED & INVOICED AS MEETING THE COMPOSITE WOOD PRODUCTS REGULATION (SEE CCR, TITLE 17, SECTION 93120, ET SEQ.).
4.) EXTERIOR GRADE PRODUCTS MARKED AS MEETING THE PS-1 OR PS-2 STANDARDS OF THE ENGINEERED WOOD ASSOCIATION, THE AUSTRALIAN ASINZS 2269 OR EUROPEAN 636 3S STANDARDS.
5.) OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY.

FOUNDATION:
DRAINAGE: THE GROUND IMMEDIATELY ADJACENT TO THE FOUNDATION SHALL BE SLOPED AWAY FROM THE BUILDING AT NOT LESS THAN 6" IN THE FIRST 10' (5% SLOPE). CRC R401.3.
RAISED FLOOR VENTILATION: CRAWL SPACE AREAS SHALL BE VENTILATED BY AN APPROVED MECHANICAL MEANS OR BY OPENINGS INTO THE UNDERFLOOR AREA WALLS. SUCH OPENINGS SHALL HAVE A NET AREA OF NOT LESS THAN 1 SQFT FOR EACH 150 SQFT OF UNDERFLOOR AREA. ONE VENTILATION OPENING SHALL BE LOCATED WITHIN 3' OF EACH CORNER OF THE BUILDING. OPENINGS SHALL BE LOCATED SO AS TO PROVIDE CROSS VENTILATION.
FOUNDATION VENTS: SHALL BE COVERED WITH CORROSION-RESISTANT WIRE MESH WITH OPENINGS NOT LESS THAN 1/8" AND NOT TO EXCEED 1/4" IN DIMENSION. CRC R408. SEE W.U.I. NOTES FOR PROPERTIES LOCATED IN A WILD-LAND URBAN INTERFACE.
FOUNDATION ACCESS: PROVIDE CRAWL SPACES WITH A MINIMUM OF 1 ACCESS OPENING. IF ACCESS IS THROUGH THE FLOOR IT SHALL NOT BE LESS THAN 18" BY 24". IF THROUGH A PERIMETER WALL IT SHALL NOT BE LESS THAN 16" BY 24". CRC R408.4.
SLABS-ON-GRADE: PROVIDE A 6-MIL POLYETHYLENE VAPOR RETARDER WITH JOINTS LAPPED NOT LESS THAN 6" BETWEEN THE BASE COURSE OR SUBGRADE & THE CONCRETE FLOOR SLAB. CRC R506.2.3.
UNDERFLOOR CLEANOUTS: SHALL BE LOCATED WITHIN 5' OF AN ACCESS POINT.

GARAGE:
DWELLING/GARAGE AND/OR CARPORT SEPARATION:
A. FROM THE RESIDENCE AND ATTICS: NOT LESS THAN 1/2" GYPSUM BOARD OR EQUIVALENT APPLIED TO THE GARAGE SIDE.
B. FROM ALL HABITABLE ROOMS ABOVE THE GARAGE OR CARPORT: NOT LESS THAN 5/8" TYPE X GYPSUM BOARD OR EQUIVALENT.
C. STRUCTURE(S) SUPPORTING FLOOR/CEILING ASSEMBLIES USED FOR SEPARATION REQUIRED BY THIS SECTION: NOT LESS THAN 1/2" GYPSUM BOARD OR EQUIVALENT.
D. GARAGES LOCATED LESS THAN 3' FROM A DWELLING UNIT ON THE SAME LOT: NOT LESS THAN 1/2" GYPSUM BOARD OR EQUIVALENT APPLIED TO THE INTERIOR SIDE OF EXTERIOR WALLS THAT ARE WITHIN THIS AREA.
HABITABLE SPACE ABOVE: ABOVE A GARAGE MUST BE SEPARATED BY 5/8" TYPE X GYPSUM BOARD. CRC TABLE R302.6
DOORS: DOORS BETWEEN THE DWELLING & GARAGE TO BE 1 3/8" THICK, SOLID CORE WOOD, SOLID CORE STEEL, HONEYCOMB CORE STEEL, OR A DOOR WITH A 20 MINUTE FIRE PROTECTION RATING, AND BE SELF-CLOSING & SELF-LATCHING. EXCEPTION: GARAGES THAT HAVE FIRE SPRINKLERS NEED ONLY BE SELF-CLOSING & SELF-LATCHING. CRC R302.5.1.
DOOR FROM GARAGE TO BEDROOM: NO OPENINGS ARE PERMITTED FROM GARAGE DIRECTLY INTO A ROOM USED FOR SLEEPING. CRC 302.5.1
STAIRS: ENCLOSED ACCESSIBLE AREAS UNDER STAIRS SHALL BE COVERED BY 1/2" GYPSUM BOARD. CRC TABLE R302.6
DUCTS: DUCTS IN THE GARAGE THAT PENETRATE THE SEPARATION MUST BE A MINIMUM OF 26 GAUGE STEEL WITH NO OPENINGS IN THE GARAGE. R302.5.2.
SUPPORTING ELEMENTS: SUPPORTING ELEMENTS OF SEPARATION ARE NO LONGER REQUIRED TO BE PROTECTED.
GARAGE DOOR: HOLD GARAGE FLOOR BACK SO THAT DOOR LANDS ON APRON 3/4" BELOW GARAGE FLOOR.
GARAGE DOOR OPENER: SHALL BE LISTED IN ACCORDANCE WITH UL 325. CRC R309.4.
GARAGE DOOR OPENING: FINISHED OPENING TO BE 1" SHORTER IN HEIGHT & 2" NARROWER THAN WIDTH OF GARAGE DOOR SIZE. PROVIDE SOLID BLOCKING AT CENTER OF DOOR FROM HEADER TO A MINIMUM OF 14" ABOVE TOP OF DOOR.
GARAGE FLOOR: THE FLOOR SHALL BE SLOPE TO FACILITATE THE MOVEMENT OF LIQUIDS TO THE FRONT DOOR. CRC R309.1.
EV CAPABILITY: A LISTED RACEWAY SHALL BE INSTALLED TO ACCOMMODATE A DEDICATED 208/240-VOLT BRANCH CIRCUIT ORIGINATING AT THE MAIN SERVICE OR SUB PANEL & SHALL TERMINATE INTO A LISTED CABINET, BOX OR OTHER ENCLOSURE FOR THE FUTURE INSTALLATION & USE OF ELECTRIC VEHICLE (EV) CHARGERS. THE RACEWAY SHALL NOT BE LESS THAN 1" INSIDE DIAMETER & SHALL BE CONTINUOUS AT ENCLOSED, INACCESSIBLE, OR CONCEALED AREAS AND SPACES. THE SERVICE PANEL AND/OR SUBPANEL SHALL PROVIDE CAPACITY TO INSTALL A 40-AMP MINIMUM BRANCH CIRCUIT. THE RACEWAY TERMINATION LOCATION SHALL BE PERMANENTLY AND VISIBLY MARKED AS "EV CAPABLE". CGBC 4.106.4.2.3.
WATER SOFTNERS: PROVIDE 3/4" PIPE CONNECTION. CPC 611.4.

GLAZING:
HABITABLE ROOMS: EXTERIOR GLAZED OPENINGS FOR NATURAL LIGHTING SHALL BE A MINIMUM OF 8% OF THE ROOM FLOOR AREA. ARTIFICIAL LIGHTING MAY BE USED IN LIEU OF NATURAL LIGHTING. CRC R303.1 OPENABLE VENTILATION AREA SHALL BE 4% OR MORE OF THE ROOM FLOOR AREA. IF LIEU OF EXTERIOR OPENINGS, A MECHANICAL VENTILATION SYSTEM MEETING CMC REQUIREMENTS MAY BE PROVIDED. CRC R303.1
NEXT TO DOORS: SAFETY GLASS IS REQUIRED WHEN WITHIN A 24" OF EITHER SIDE OF THE DOOR IN THE PLANE OF THE DOOR IN A CLOSED POSITION. ALSO WHERE GLAZING IS ON A WALL PERPENDICULAR TO THE PLANE OF THE DOOR IN A CLOSED POSITION & WITHIN 24" OF THE HINGE SIDE OF AN IN-SWINGING DOOR. R308.4.2.
SAFETY GLASS IS REQUIRED IF ALL OF THE FOLLOWING CONDITIONS ARE MET:
1.) EXPOSED AREA OF INDIVIDUAL PANE IS LARGER THAN 9 SQUARE FEET;
2.) THE BOTTOM EDGE IS LESS THAN 18" ABOVE THE FLOOR;
3.) THE TOP EDGE IS MORE THAN 36" ABOVE THE FLOOR;
4.) A WALKING SURFACE IS WITHIN 36" FROM THE GLAZING MEASURED HORIZONTALLY IN A STRAIGHT LINE. CRC 308.4.3
SAFETY GLASS IS REQUIRED INDOORS & OUTDOORS AT GLASS IN WALLS, ENCLOSURES OR FENCES CONTAINING OR FACING HOT TUBS, SPAS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS, SHOWERS & INDOOR OR OUTDOOR POOLS WHERE THE BOTTOM EDGE OF THE GLASS IS WITHIN 60" MEASURED VERTICALLY ABOVE A STANDING OR WALKING SURFACE. CRC 308.4.5.
ADJACENT TO BOTTOM OF STAIR LANDING: AT THE BOTTOM OF THE STAIRWAY WHERE THE GLAZING IS LESS THAN 36" ABOVE THE LANDING & WITHIN 60" HORIZONTAL ARC LESS THAN 180° FROM THE BOTTOM TREAD NOSING SHALL BE SAFETY GLASS. CRC R308.4.7.

GREEN PLANNING & DESIGN:
DURING CONSTRUCTION, ONE OR MORE OF THE FOLLOWING MEASURES SHALL BE IMPLEMENTED TO PREVENT FLOODING OF THE ADJACENT PROPERTY, PREVENT EROSION & RETAIN SOIL RUNOFF ON THE SITE:
1.) RETENTION BASINS OF SUFFICIENT SIZE SHALL BE UTILIZED TO RETAIN STORM WATER ON SITE.
2.) WHERE STORM WATER IS CONVEYED TO A PUBLIC DRAINAGE SYSTEM, COLLECTING POINT, GUTTER OR SIMILAR DISPOSAL METHOD, WATER SHALL BE FILTERED BY USE OF A BARRIER SYSTEM WATTLE OR OTHER METHOD APPROVED BY THE ENFORCING AGENCY.
3.) COMPLIANCE WITH A LAWFUL ENACTED STORM WATER MANAGEMENT ORDINANCE.
4.) METHODS TO MANAGE SURFACE WATER INCLUDE: SWALES, WATER COLLECTION & DISPOSAL SYSTEMS, FRENCH DRAINS, WATER RETENTION GARDENS & OTHER WATER MEASURES WHICH KEEP SURFACE WATER AWAY FROM BUILDINGS & AID IN GROUNDWATER RECHARGE.

HEATING & COOLING:
HVAC SYSTEMS INSTALLERS: MUST BE TRAINED & CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS. CGBC 702.1.
DURING ROUGH INSTALLATION OR STORAGE ON SITE & UNTIL FINAL STARTUP OF THE HEATING & COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS.
HEATING: DWELLING UNITS SHALL BE PROVIDED WITH HEATING FACILITIES CAPABLE OF MAINTAINING A MINIMUM ROOM TEMPERATURE OF 68°F AT A POINT 3' ABOVE THE FLOOR & 2' FROM EXTERIOR WALLS IN ALL HABITABLE ROOMS. PORTABLE HEATERS SHALL NOT BE USED TO ACHIEVE COMPLIANCE WITH THIS SECTION. CRC 303.9.
FORCED AIR UNIT:
ATTACHMENT: INSTALL PER HVAC CONNECTION DETAIL.
ATTIC PASSAGEWAY: PROVIDE UNOBSTRUCTED, SOLID FLOOR NOT LESS THAN 24". THE ATTIC FURNACE ACCESS SHALL NOT EXCEED 20' FROM THE ATTIC ACCESS OPENING IF THE CLEARANCE HEIGHT IS LESS THAN 6' IN HEIGHT. CMC SECTION 904.11.2. PROVIDE MINIMUM 30"X30" HIGH WORKING SURFACE IN FRONT OF SERVICE SIDE OF F.A.U.
CONDENSATION DRAIN PAN: PROVIDE A WATERTIGHT CORROSION-RESISTANT METAL PAN BENEATH THE F.A.U. WITH NOT LESS THAN A 3/4" DIAMETER DRAIN TO AN APPROVED LOCATION. CPC 507.4. & CMC 312.2.
DRAIN PAN: FOR PROPANE F.A.U.'S PROVIDE DRAIN PAN AS PER CMC SECTION 303.7.1 TO PROVIDE FOR REMOVAL OF UNBURNED GAS.
SERVICE DISCONNECT: & PROVIDE 220v ELECT. DISCONNECT & 110v PROTECTED SERVICE RECEPTACLE WITHIN 25'. CMC 310.1.
HVAC CONDENSING UNIT:
CONCRETE PAD OR APPROVED BASE EXTENDING 3" OR MORE ABOVE GROUND LEVEL.
SERVICE DISCONNECT: PROVIDE 220v ELECT. DISCONNECT WITHIN 25' W/ 30"x30" CLEAR WORKSPACE & 110v WP GFCI PROTECTED SERVICE RECEPTACLE WITHIN 25'. CEC 210.63 & CMC 310.1.

IRRIGATION SYSTEMS:
OUTDOOR IRRIGATION CONTROLLERS: CGBC 4.304.1: AUTOMATIC IRRIGATION SYSTEM CONTROLLERS FOR LANDSCAPING PROVIDED BY THE BUILDER & INSTALLED AT THE TIME OF FINAL INSPECTION SHALL COMPLY WITH THE FOLLOWING:
A CONTROLLERS SHALL BE WEATHER- OR SOIL MOISTURE-BASED CONTROLLERS THAT AUTOMATICALLY ADJUST IRRIGATION IN RESPONSE TO CHANGES IN PLANTS' NEEDS AS WEATHER CONDITIONS CHANGE.
B WEATHER-BASED CONTROLLERS WITHOUT INTEGRAL RAIN SENSORS OR COMMUNICATION SYSTEMS THAT ACCOUNT FOR LOCAL RAINFALL SHALL HAVE A SEPARATE WIRED OR WIRELESS RAIN SENSOR WHICH CONNECTS OR COMMUNICATES WITH THE CONTROLLER(S). SOIL MOISTURE-BASED CONTROLLERS ARE NOT REQUIRED TO HAVE RAIN SENSOR INPUT.

KITCHEN & DINING:
ISLAND SINKS: SPECIAL VENTING IS REQUIRED. SEE CPC, SECTION 909.
KITCHEN FAUCETS: FLOW RESTRICTED TO 1.8 GPM @ 60 PSI. TEMPORARY INCREASE TO 2.2 GPM ALLOWED BUT SHALL DEFAULT TO 1.8 GPM. CGBC 4.303.1.4.4
REFRIGERATOR SPACE: PROVIDE WATER HOOKUP.
EXHAUST DUCTS: RANGE VENTS SHALL BE EQUIPPED WITH BACK-DRAFT DAMPERS VENTED TO OUTSIDE OF THE BUILDING. CMC 504.1
FLOOR COVERING: SEE "NOTES", FLOOR COVERING FOR ADDITIONAL INFORMATION.

LANDINGS:
LANDINGS: THE LANDING AT AN EXTERIOR DOORWAY SHALL NOT BE MORE THAN 7.75" BELOW THE TOP OF THE THRESHOLD, PROVIDED THE DOOR, OTHER THAN AN EXTERIOR STORM OR SCREEN DOOR, DOES NOT SWING OVER THE LANDING. CRC R311.3.2. PROVIDE 36" MINIMUM LANDING AT ALL EXTERIOR DOORS. SEE "NOTES", EGRESS FOR ADDITIONAL INFORMATION.
HANDRAILS: PROVIDE HANDRAILS ON AT LEAST (1) SIDE OF STEPS WITH (4) OR MORE RISERS. CRC R311.7.8. SEE "NOTES", STAIRS, LANDINGS & GUARDS FOR ADDITIONAL INFORMATION.
GUARDS: GUARDS ARE REQUIRED FOR WALKING SURFACES LOCATED MORE THAN 30" ABOVE ADJACENT GRADE. CRC R312.1.1. SEE "NOTES", STAIRS, LANDINGS & GUARDS FOR ADDITIONAL INFORMATION.

LAUNDRY ROOM:
DRYER EXHAUST:
1.) PROVIDE 4" MIN. EXHAUST DUCT TO OUTSIDE AIR WITH BACK-DRAFT DAMPER. MAXIMUM LENGTH FOR THE DRYER EXHAUST DUCT IS 14' W/ 2 ELBOWS. CMC 504.1.2.
2.) DRYER VENT TO TERMINATE 36" MIN. FROM ANY WINDOW OPENING.
3.) TERMINATE NOT LESS THAT 3' FROM PROPERTY LINE OR BUILDING OPENINGS.
4.) PROVIDE 100 SQ INCHES OF VENT @ LAUNDRY ROOM DOOR OR OTHER APPROVED MEANS FOR MAKEUP AIR.
EXHAUST DUCTS: TERMINATE OUTSIDE OF THE BUILDING W/ BACK-DRAFT DAMPERS. EXHAUST DUCTS SHALL TERMINATE 3' FROM PROPERTY LINE & 3' FROM OPENINGS INTO THE BUILDING.
FLOOR COVERING: SEE "NOTES", FLOOR COVERING FOR ADDITIONAL INFORMATION.
WHOLE BUILDING VENTILATION: SEE "NOTES", WHOLE BUILDING VENTILATION FOR ADDITIONAL INFORMATION.

LEGAL REQUIREMENTS:
PERMIT ON SITE: A COPY OF THE BUILDING PERMIT MUST BE KEPT ON SITE UNTIL THE WORK IS COMPLETED AND A FINAL INSPECTION HAS BEEN MADE. (SEC. 105.7)
LOWEST FLOOR ELEVATION: IN FLOOD HAZARD AREAS, AN ELEVATION CERTIFICATE IS REQUIRED AFTER PLACEMENT OF THE LOWEST FLOOR BEFORE PROCEEDING WITH CONSTRUCTION ABOVE. SEE "NOTES", FLOOD ZONE FOR ADDITIONAL INFORMATION.

LIGHT & VENTILATION:
LIGHT & VENTILATION: ALL HABITABLE ROOMS SHALL HAVE AN AGGREGATE GLAZING AREA OF NOT LESS THAN 8% OF THE FLOOR AREA OF SUCH ROOMS. NATURAL VENTILATION SHALL BE THROUGH WINDOWS, DOORS, LOUVERS OR OTHER APPROVED OPENINGS TO THE OUTDOOR AIR. SUCH OPENINGS SHALL BE PROVIDED WITH READY ACCESS OR SHALL OTHERWISE BE READILY CONTROLLABLE BY THE BUILDING OCCUPANTS. THE MINIMUM OPENABLE AREA TO THE OUTDOORS SHALL BE 4% OF THE FLOOR AREA BEING VENTILATED. CRC R303.
ADJOINING ROOMS: FOR THE PURPOSE OF DETERMINING LIGHT AND VENTILATION REQUIREMENTS, ANY ROOM SHALL BE CONSIDERED AS A PORTION OF AN ADJOINING ROOM WHEN AT LEAST 50% OF THE AREA OF THE COMMON WALL IS OPEN AND UNOBSTRUCTED AND PROVIDES AN OPENING OF NOT LESS THAN 1/10 OF THE FLOOR AREA OF THE INTERIOR ROOM BUT NOT LESS THAN 25 SQUARE FEET.

LOCATION ON LOT:
1.) EXCEPT WHERE ZONING REGULATIONS ARE MORE RESTRICTIVE, ANY EXTERIOR WALL OF A DWELLING MUST BE AT LEAST 10' FROM THE PROPERTY LINE UNLESS IT IS AT LEAST ONE-HOUR FIRE-RESISTANT CONSTRUCTION.
2.) WINDOWS & OPENINGS: THE AREA OF UNPROTECTED & PROTECTED WINDOWS & OTHER EXTERIOR WALL OPENINGS IS NOT LIMITED, PROVIDED THE DISTANCE TO THE PROPERTY LINE IS GREATER THAN 5'.
3.) WINDOWS & OPENINGS: WINDOWS & OTHER OPENINGS GREATER THAN 3' BUT NOT MORE THAN 5' FROM THE PROPERTY LINE ARE LIMITED IN AREA TO 25% OF THE WALL AREA.
4.) WINDOWS & OPENINGS: WINDOWS & OTHER OPENINGS ARE NOT PERMITTED WITHIN 3' OR LESS OF THE PROPERTY LINE.
5.) ANY EXTERIOR WALL OF A DETACHED GARAGE OR OTHER GROUP U OCCUPANCIES MUST BE AT LEAST 5' FROM THE PROPERTY LINE UNLESS IT IS OF AT LEAST ONE-HOUR FIRE-RESISTANT CONSTRUCTION. WINDOWS & OTHER OPENINGS ARE NOT PERMITTED WITHIN 3 FEET OR LESS OF THE PROPERTY LINE.
6.) ONE-HOUR FIRE-RESISTANT CONSTRUCTION INCLUDES THE FOLLOWING:
A. EXTERIOR PLASTER OVER METAL OR WIRE LATH ON THE OUTSIDE & 5/8" TYPE X GYPSUM WALLBOARD ON THE INSIDE.
B. THREE-FOURTHS-INCH DROP SIDING OVER 1/2" GYPSUM SHEATHING ON 2" x 4" WOOD STUDS AT 16" c/c ON EXTERIOR SURFACE WITH INTERIOR SURFACE TREATMENT AS SPECIFIED IN ITEM 1. GYPSUM SHEATHING NAILED WITH 1 3/4" BY NO. 11 GAGE BY 7/16" HEAD GALVANIZED NAILS AT 8" c/c. SIDING NAILED WITH 7d GALVANIZED SMOOTH BOX NAILS.
C. ADDITIONAL ASSEMBLIES FOR FIRE-RESISTANCE-RATED WALL ASSEMBLIES ARE LOCATED IN TABLE 720.1(2). (SEC. 720.1)
7.) WALLS PERPENDICULAR TO THE PROPERTY LINE ARE NOT REGULATED.

OPERATION & MAINTENANCE MANUAL:
1.) OPERATION & MAINTENANCE MANUAL: AT THE TIME OF FINAL INSPECTION, A MANUAL, COMPACT DISC, WEB-BASED REFERENCE OR OTHER MEDIA ACCEPTABLE TO THE ENFORCING AGENCY WHICH INCLUDES ALL OF THE FOLLOWING SHALL BE PLACED IN THE BUILDING:
A. DIRECTIONS TO THE OWNER OR OCCUPANT THAT THE MANUAL SHALL REMAIN WITH THE BUILDING THROUGHOUT THE LIFE CYCLE OF THE STRUCTURE.
B. OPERATION & MAINTENANCE INSTRUCTIONS FOR THE FOLLOWING:
1) EQUIPMENT & APPLIANCES, INCLUDING WATER-SAVING DEVICES & SYSTEMS, HVAC SYSTEMS, WATER-HEATING SYSTEMS & OTHER MAJOR APPLIANCES & EQUIPMENT.
2) ROOF & YARD DRAINAGE, INCLUDING GUTTERS & DOWNSPOUTS.
3) SPACE CONDITIONING SYSTEMS, INCLUDING CONDENSERS & AIR FILTERS.
4) LANDSCAPE IRRIGATION SYSTEMS.
5) WATER REUSE SYSTEMS.
2.) INFORMATION FROM LOCAL UTILITY, WATER & WASTE RECOVERY PROVIDERS ON METHODS TO FURTHER REDUCE RESOURCE CONSUMPTION, INCLUDING RECYCLE PROGRAMS & LOCATIONS.
3.) PUBLIC TRANSPORTATION AND/OR CARPOOL OPTIONS AVAILABLE IN THE AREA.
4.) EDUCATIONAL MATERIAL ON THE POSITIVE IMPACTS OF AN INTERIOR RELATIVE HUMIDITY BETWEEN 30-60 PERCENT & WHAT METHODS AN OCCUPANT MAY USE TO MAINTAIN THE RELATIVE HUMIDITY LEVEL IN THAT RANGE.
5.) INFORMATION ABOUT WATER-CONSERVING LANDSCAPE & IRRIGATION DESIGN & CONTROLLERS WHICH CONSERVE WATER.
6.) INSTRUCTIONS FOR MAINTAINING GUTTERS & DOWNSPOUTS & THE IMPORTANCE OF DIVERTING WATER AT LEAST 5' AWAY FROM THE FOUNDATION.
7.) INFORMATION ON REQUIRED ROUTINE MAINTENANCE MEASURES, INCLUDING, BUT NOT LIMITED TO, CAULKING, PAINTING, GRADING AROUND THE BUILDING, ETC.
8.) INFORMATION ABOUT STATE SOLAR ENERGY & INCENTIVE PROGRAMS AVAILABLE.
9.) A COPY OF ALL SPECIAL INSPECTION VERIFICATIONS REQUIRED BY THE ENFORCING AGENCY OR THIS CODE.

PLUMBING:
HOSE BIBBS: INSTALL NON-REMOVABLE BACKFLOW PREVENTION DEVICES. CPC 603.5.7.
REMODELS: FOR ALTERATIONS OR IMPROVEMENTS TO SINGLE-FAMILY RESIDENCES, AS A CONDITION FOR ISSUANCE OF A CERTIFICATE OF OCCUPANCY OR FINAL PERMIT APPROVAL, THE PERMIT APPLICANT SHALL REPLACE ALL NON-COMPLIANT PLUMBING FIXTURES WITH WATER-CONSERVING PLUMBING FIXTURES. CA SENATE BILL 407.
WATER SOFTNERS: PROVIDE 3/4" PIPE CONNECTION. CPC 611.4.

RODENT PROOFING:
RODENT PROOFING: ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENINGS IN SOLE/BOTTOM PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY OR A SIMILAR METHOD ACCEPTABLE TO THE ENFORCING AGENCY. CGBC 4.406

ROOF & CEILING:
1.) RADIANT BARRIER SHEATHING: WHEN RADIANT BARRIER SHEATHING IS REQUIRED, THE RADIANT BARRIER SHALL ALSO BE INSTALLED ON ALL VERTICAL SURFACES AND GABLE END WALLS IN THE ATTIC.

SITE ADDRESS:
1.) BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS, BUILDING NUMBERS OR APPROVED BUILDING IDENTIFICATION PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. THESE NUMBERS SHALL CONTRAST WITH THEIR BACKGROUND.
2.) ADDRESS NUMBERS SHALL BE ARABIC NUMBERS OR ALPHABETICAL LETTERS. NUMBERS SHALL BE A MINIMUM OF 4" WITH A MINIMUM STROKE WIDTH OF 1/2".
3.) WHERE ACCESS IS BY MEANS OF A PRIVATE ROAD AND THE BUILDING ADDRESS CANNOT BE VIEWED FROM THE PUBLIC WAY, A MONUMENT, POLE OR OTHER SIGN OR MEANS SHALL BE USED TO IDENTIFY THE STRUCTURE.

SMOKE/C.O. ALARMS:
SMOKE ALARMS:
1.) SMOKE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:
A. IN EACH SLEEPING ROOM.
B. OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS.
2.) WHEN MORE THAN ONE SMOKE ALARM IS REQUIRED TO BE INSTALLED WITHIN AN INDIVIDUAL DWELLING UNIT THE ALARM DEVICES SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTUATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL UNIT.
3.) 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 BACKUP. CRC R314.4.
EXCEPTIONS: SMOKE ALARMS ARE PERMITTED TO BE SOLELY BATTERY OPERATED IN EXISTING BUILDINGS WHERE NO CONSTRUCTION IS TAKING PLACE.
CARBON MONOXIDE ALARMS:
1.) FOR NEW CONSTRUCTION, AN APPROVED CARBON MONOXIDE ALARM SHALL BE INSTALLED IN DWELLING UNITS AND IN SLEEPING UNITS WITHIN WHICH FUEL-BURNING APPLIANCES ARE INSTALLED AND IN DWELLING UNITS THAT HAVE ATTACHED GARAGES.
2.) WHERE A PERMIT IS REQUIRED FOR ALTERATIONS, REPAIRS OR ADDITIONS EXCEEDING ONE THOUSAND DOLLARS ($1,000), EXISTING DWELLINGS OR SLEEPING UNITS THAT HAVE ATTACHED GARAGES OR FUEL-BURNING APPLIANCES SHALL BE PROVIDED WITH A CARBON MONOXIDE ALARM IN ACCORDANCE WITH SECTION R315.1. CARBON MONOXIDE ALARMS SHALL ONLY BE REQUIRED IN THE SPECIFIC DWELLING UNIT OR SLEEPING UNIT FOR WHICH THE PERMIT WAS OBTAINED.
3.) 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. CARBON MONOXIDE ALARMS AND CARBON MONOXIDE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THIS CODE, THE CURRENT EDITION OF NFPA 720 "STANDARD FOR THE INSTALLATION OF CARBON MONOXIDE (CO) DETECTION AND WARNING EQUIPMENT" AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. OTHER CARBON MONOXIDE ALARM AND DETECTION DEVICES AS RECOGNIZED IN NFPA 720 ARE ALSO ACCEPTABLE.
4.) CARBON MONOXIDE ALARMS REQUIRED BY SECTIONS R315.1 AND R315.2 SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS: CRC R315.
A. OUTSIDE OF EACH SEPARATE DWELLING UNIT SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOM(S).
B. ON EVERY LEVEL OF A DWELLING UNIT INCLUDING BASEMENTS.

STAIRS, HANDRAILS & GUARDS:
STAIR WIDTH: STAIRWAYS SHALL NOT BE LESS THAN 36" IN CLEAR WIDTH AT ALL POINTS ABOVE THE PERMITTED HANDRAIL HEIGHT & BELOW THE REQUIRED HEADROOM HEIGHT. HANDRAILS SHALL NOT PROJECT MORE THE 4.5" ON EITHER SIDE OF THE STAIRWAY & THE MINIMUM CLEAR WIDTH OF THE STAIRWAY AT & BELOW THE HANDRAIL HEIGHT, INCLUDING TREADS & LANDINGS, SHALL NOT BE LESS THAN 31.5" WHERE A HANDRAIL IS INSTALLED ON 1 SIDE & 27" WHERE HANDRAILS ARE ON BOTH SIDES. CRC R311.7.1. SPIRAL STAIRWAYS IN ACCORDANCE WITH R311.7.10.1.
STAIR HEADROOM: THE MINIMUM HEADROOM IN ALL PARTS OF THE STAIRWAY SHALL NOT BE LESS THAN 80" MEASURED VERTICALLY FROM THE SLOPED LINE ADJOINING THE TREAD NOSING OR FROM THE FLOOR SURFACE OF THE LANDING ON THAT PORTION OF THE STAIRWAY. CRC311.7.2. EXCEPTION: WHERE THE NOSING OF TREADS AT THE SIDE OF A FLIGHT EXTEND UNDER THE EDGE OF A FLOOR OPENING THROUGH WHICH THE STAIR PASSES, THE FLOOR OPENING IS ALLOWED TO PROJECT HORIZONTALLY INTO THE REQUIRED HEADROOM A MAXIMUM OF 4.75".
VERTICAL RISE: A FLIGHT OF STAIRS SHALL NOT HAVE A VERTICAL RISE LARGER THAN 12'-7" BETWEEN FLOOR LEVELS OR LANDINGS. CRC311.7.3.
WALKLINE: THE WALKLINE ACROSS WINDER TREADS SHALL BE CONCENTRIC TO THE DIRECTION OF TRAVEL THROUGH THE TURN AND LOCATED 12" FROM THE SIDE WHERE THE WINDERS ARE NARROWER. THE 12" DIMENSION SHALL BE MEASURED FROM THE WIDEST POINT OF THE CLEAR STAIR WIDTH AT THE WALKING SURFACE OF THE WINDER. IF WINDERS ARE ADJACENT WITHIN THE FLIGHT, THE POINT OF THE WIDEST CLEAR STAIR WIDTH OF THE ADJACENT WINDERS SHALL BE USED. CRC 311.7.4.
TREADS & RISERS: STAIR TREADS AND RISERS SHALL MEET THE REQUIREMENTS OF THIS SECTION. FOR THE PURPOSE OF THIS SECTION, ALL DIMENSIONS ARE EXCLUSIVE OF CARPETS, RUGS OR RUNNERS. CRC 311.7.5.
RISER HEIGHT: THE MAXIMUM RISER HEIGHT SHALL BE 7 3/4". THE GREATEST RISER HEIGHT SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8". RISERS SHALL BE VERTICAL OR SLOPED FROM THE UNDERSIDE OF THE NOSING OF THE TREAD AT AN ANGLE NOT MORE THAN 30° FROM THE VERTICAL. OPEN RISERS ARE PERMITTED PROVIDING THAT THE OPENING BETWEEN TREADS DOES NOT PERMIT THE PASSAGE OF A 4" DIAMETER SPHERE. EXCEPTION: THE OPENING BETWEEN ADJACENT TREADS IS NOT LIMITED ON STAIRS WITH A TOTAL RISE OF 30" OR LESS. OPEN RISERS ARE ONLY PERMITTED WITHIN 30" OF THE FLOOR. CRC R311.7.5.1.
TREAD DEPTH: THE MINIMUM TREAD DEPTH SHALL BE 10". THE TREAD DEPTH IS MEASURED HORIZONTALLY BETWEEN THE VERTICAL PLANES OF THE FOREMOST PROJECTION OF ADJACENT TREADS & AT A RIGHT ANGLE TO THE TREADS LEADING EDGE. THE GREATEST TREAD DEPTH WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8". CRC311.7.5.2.
WINDER TREADS: WINDER TREADS SHALL HAVE A MINIMUM TREAD DEPTH OF 10" MEASURED BETWEEN THE VERTICAL PLANES OF THE FOREMOST PROJECTION OF ADJACENT TREADS AT THE INTERSECTION WITH THE WALKLINE. WINDER TREADS SHALL HAVE A MINIMUM TREAD DEPTH OF 6" AT ANY POINT WITH THE CLEAR WIDTH OF THE STAIR. THE GREATEST TREAD DEPTH WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8". CONSISTENTLY SHAPED WINDERS AT THE WALKLINE SHALL BE ALLOWED WITHIN THE SAME FLIGHT OF STAIRS AS REGULAR TREADS & DO NOT HAVE TO BE WITHIN 3/8" OF THE RECTANGULAR TREAD DEPTH. CRC 311.7.5.2.1.
NOSINGS: THE RADIUS OF CURVATURE AT THE NOSING SHALL BE NO GREATER THAN 9/16". A NOSING NOT LESS THAN 3/4" BUT NOT MORE THAN 1.25" SHALL BE PROVIDED ON STAIRWAYS WITH SOLID RISERS. THE GREATEST NOSING PROJECTION SHALL NOT EXCED THE SMALLEST BY MORE THAN 3/8" BETWEEN 2 STORIES, INCLUDING NOSING AT THE LEVEL OF FLOORS AND LANDINGS. EXCEPTION: A NOSING IS NOT REQUIRED WHERE THE TREAD DEPTH IS A MINIMUM OF 11". CRC 311.7.5.3.
EXTERIOR WOOD/PLASTIC COMPOSITE STAIR TREADS: SHALL COMPLY WITH CRC 507.3.
STAIRWAY LANDINGS: THERE SHALL BE A FLOOR OR LANDING AT THE TOP AND BOTTOM OF EACH STAIRWAY. THE MINIMUM WIDTH PERPENDICULAR TO THE DIRECTION OF TRAVEL SHALL BE NO LESS THAN THE WIDTH OF THE FLIGHT SERVED. LANDINGS OF SHAPES OTHER THAN SQUARE OR RECTANGLE SHALL BE PERMITTED PROVIDED THE DEPTH AT THE WALKLINE & THE TOTAL AREA IS NOT LESS THAN THAT OF A QUARTER CIRCLE WITH A RADIUS EQUAL TO THE REQUIRED LANDING WIDTH. WHERE THE STAIRWAY HAS A STRAIGHT RUN, THE MINIMUM DEPTH IN THE DIRECTION OF TRAVEL SHALL NOT BE LESS THAN 36" EXCEPTION: A FLOOR OR LANDING IS NOT REQUIRED AT THE TOP OF AN INTERIOR FLIGHT OF STAIRS, INCLUDING STAIRS IN AN ENCLOSED GARAGE, PROVIDED A DOOR DOES NOT SWING OVER THE STAIRS. CRC 311.7.6.
STAIRWAY WALKING SURFACE: THE WALKING SURFACE OF TREADS & LANDINGS OF STAIRWAYS SHALL BE SLOPED NO STEEPER THAN 1 UNIT IN 48" HORIZONTAL (2% SLOPE). CRC311.7.7.
HANDRAILS: HANDRAILS SHALL BE PROVIDED ON AT LEAST 1 SIDE OF EACH CONTINUOUS RUN OF TREADS OR FLIGHT WITH 4 OR MORE RISERS. CRC 311.7.8.
HANDRAIL HEIGHT: HANDRAIL HEIGHT, MEASURED VERTICALLY FROM THE SLOPED PLANE ADJOINING THE TREAD NOSING, OR FINISH SURFACE OF RAMP SLOPE, SHALL NOT BE LESS THAN 34" & NOT MORE THAN 38". EXCEPTIONS: 1.) THE USE OF A VOLUTE, TURNOUT OR STARTING EASING SHALL BE ALLOWED OVER THE LOWEST TREAD. 2.) WHEN HANDRAIL FITTINGS OR BENDINGS ARE USED TO PROVIDE CONTINUOUS TRANSITION BETWEEN FLIGHTS, TRANSITIONS AT WINDER TREADS, THE TRANSITION FOR HANDRAIL TO GUARDRAIL, OR USED AT THE START OF A FLIGHT, THE HANDRAIL HEIGHT AT THE FITTINGS OR BENDINGS SHALL BE PERMITTED TO EXCEED THE MAXIMUM HEIGHTS. CRC 311.7.8.1.
CONTINUITY: HANDRAILS FOR STAIRWAYS SHALL BE CONTINUOUS FOR THE FULL LENGTH OF THE FLIGHT, FROM A POPINT DIRECTLY ABOVE THE TOP RISER OF THE FLIGHT TO A POINT DIRECTLY ABOVE THE LOWER RISER OF THE FLIGHT. HANDRAILS ENDS SHALL BE RETURNED OR SHALL TERMINATE IN NEWEL POSTS OR SAFETY TERMINALS. HANDRAILS ADJACENT TO A WALL SHALL HAVE A SPACE OF NOT LESS THAN 1.5" BETWEEN THE WALL & HANDRAILS. EXCEPTIONS: 1.) HANDRAILS SHALL BE PERMITTED TO BE INTERRUPTED BY A NEWEL POST AT THE TURN. 2.) THE USE OF A VOLUTE, TURNOUT, STARTING EASING OR STARTING NEWEL IS ALLOWED OVER THE LOWEST TREAD. CRC 311.7.8.2.
GRIP SIZE: ALL REQUIRED HANDRAILS SHALL BE OF 1 OF THE FOLLOWING TYPES OR PROVIDE EQUIVALENT GRASPABILITY:
TYPE 1: HANDRAILS WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF A LEAST 1.25" & NOT GREATER THAN 2". IF THE HANDRAIL IS NOT CIRCULAR, IT SHALL HAVE A PERIMETER DIMENSION OF AT LEAST 4" & NOT GREATER THAN 6.25" WITH A MAXIMUM CROSS SECTION OF DIMENSION OF 2.25". EDGES SHALL HAVE A MINIMUM RADIUS OF 0.01".
TYPE 2: HANDRAILS WITH A PERIMETER GREATER THAN 6.25" SHALL HAVE A GRASPABILITY FINGER RECESS ON BOTH SIDES OF THE PROFILE. THE FINGER RECESS SHALL BEGIN WITH A DISTANCE OF 3/4" MEASURED VERTICALLY FROM THE TALLEST PORTION OF THE PROFILE & ACHIEVE A DEPTH OF AT LEAST 5/16" WITHIN 7/8" BELOW THE WIDEST PORTION OF THE PROFILE. THIS REQUIRED DEPTH SHALL CONTINUE FOR AT LEAST 3/8" TO A LEVEL THAT IS NOT LESS THAN 1.75" BELOW THE TALLEST PORTION OF THE PROFILE. THE MINIMUM WIDTH OF THE HANDRAIL ABOVE THE RECESS SHALL BE 1.25" TO A MAXIMUM OF 2.75" EDGES SHALL HAVE A MINIMUM RADIUS OF 0.01". CRC 311.7.8.3.
EXTERIOR WOOD/PLASTIC COMPOSITE HANDRAILS: CRC 311.7.8.4. SHALL COMPLY WITH CRC 507.3.
ILLUMINATION: ALL STAIRS SHALL BE PROVIDED WITH ILLUMINATION IN ACCORDANCE WITH CRC 303.6.
SPECIAL STAIRWAYS: SPIRAL STAIRWAYS & BULKHEAD ENCLOSURE SHALL COMPLY WITH ALL REQUIREMENTS OF CRC 311.7 EXCEPT A SPECIFIED BELOW.
SPIRAL STAIRWAYS: SPIRAL STAIRWAYS ARE PERMITTED, PROVIDED THE MINIMUM CLEAR WIDTH AT & BELOW THE HANDRAILS SHALL BE 26" WITH EACH TREAD HAVING A 7.5" MINIMUM TREAD DEPTH AT 12" FROM THE NARROWER EDGE. ALL TREADS SHALL BE IDENTICAL, AND THE RISE SHALL BE NO MORE THAN 9.5". A MINIMUM HEADROOM OF 6'-6" SHALL BE PROVIDED. CRC 311.7.10.1.
GUARDS - WHERE REQUIRED: GUARDS SHALL BE LOCATED ALONG OPEN SIDED WALKING SURFACES, INCLUDING STAIRS, RAMPS & LANDINGS, THAT ARE LOCATED MORE THAN 30" MEASURED VERTICALLY TO THE FLOOR OR GRADE BELOW AT ANY POINT WITHIN 36" HORIZONTALLY TO THE EDGE OF THE OPEN SIDE. INSECT SCREENING SHALL NOT BE CONSIDERED A GUARD. CRC 312.1.1.
GUARDS - HEIGHT: REQUIRED GUARDS SHALL BE NOT LESS THAN 42" HIGH MEASURED VERTICALLY ABOVE THE ADJACENT WALKING SURFACE, ADJACENT FIXED SEATING OR THE LINE CONNECTING THE LEADING EDGES OF THE TREADS. EXCEPTIONS: 1.) GUARDS ON THE OPEN SIDES OF STAIRS SHALL HAVE A HEIGHT OF NOT LESS THAN 34" MEASURED VERTICALLY FROM A LINE CONNECTING THE LEADING EDGE OF THE TREADS. 2.) WHERE THE TOP OF THE GUARD ALSO SERVES AS A HANDRAIL ON THE OPEN SIDES OF STAIRS, THE TOP OF THE GUARD SHALL NOT BE LESS THAN 34" & NOT MORE THAN 38" MEASURED VERTICALLY FROM A LINE CONNECTING THE LEADING EDGES OF THE TREADS, CRC 312.1.2.
GUARDS - OPENING LIMITATIONS: REQUIRED GUARDS SHALL NOT HAVE OPENINGS FROM THE WALKING SURFACE TO THE REQUIRED GUARD HEIGHT WHICH ALLOWS PASSAGE OF A 4" SPHERE. EXCEPTIONS: 1.) THE TRAINGULAR OPENINGS AT THE OPEN SIDE OF STAIR, FORMED BY THE RISER, TREAD & BOTTOM RAIL OF A GUARD, SHALL NOT ALLOW PASSAGE A 6" SPHERE. 2.) GUARDS ON THE OPEN SIDE OF STAIRS SHALL NOT HAVE OPENINGS WHICH ALLOW PASSAGE OF A 4 3/8" SPHERE. CRC 312.1.3.

UTILITIES:
ELECT. SERVICE: (CONFIRM LOCATION)
1.) PROVIDE ELECTRICAL SERVICE, LOCATED AT LEAST 36" FROM THE NEAREST DOOR OR WINDOW. SEE FLOOR PLAN FOR AMPERAGE.
2.) CANNOT BE LOCATED ADJACENT TO A BEDROOM OR CLOSET.
3.) NO FOUNDATION OR ATTIC VENT WITHIN 10' VERTICALLY AND 3' HORIZONTALLY.
4.) CENTER OF METER READOUT TO BE AT A HEIGHT OF 48" MINIMUM TO 75" MAXIMUM.
GAS SERVICE: (CONFIRM LOCATION)
1.) PROVIDE AT LEAST 36" FROM GAS RISER TO ELECT. SERVICE.
2.) NO WINDOW OR VENT WITHIN 36" HORIZONTALLY & 10' VERTICALLY.

WALLS:
STONE VENEER OVER WOOD STUDS @ 16" c/c:
1. ATTACH 2 LAYERS OF NO. 15 FELT, COMPLYING W/ ASTM D 226 FOR TYPE 1 FELT, TO PROVIDE CONTINUOUS WATER-RESISTIVE BARRIER.
2. ATTACH 2"x2" 0.0625 INCH ZINC-COATED OR NON-METALLIC COATED WIRE MESH
A.) ATTACHED W/ 2" CORROSION-RESISTANT STEEL WIRE FURRING NAILS AT 4" c/c PROVIDING A MIN. OF 1.125" PENETRATION INTO EACH STUD & W/ 8d ANNULAR THREADED NAILS AT 8" c/c INTO TOP & BOTTOM PLATES OR W/ EQ. WIRE TIES.
B.) THERE SHALL BE NOT LESS THAN 0.1055" ZINC-COATED OR NONMETALLIC COATED WIRE, OR APPROVED EQUAL, ATTACHED TO THE STUD W/ A MIN. OF AN 8d ANNULAR THREADED NAIL FOR EVERY 2 SQUARE FEET OF STONE VENEER. THIS TIE SHALL BE A LOOP HAVING LEGS NOT LESS THAN 15" IN LENGTH, SO BENT THAT IT WILL LIE IN THE STONE VENEER MORTAR JOINT.
C.) THE LAST 2" OF EACH WIRE LEG SHALL HAVE A RIGHT-ANGLE BEND.
3. 1" MIN. THICKNESS OF CEMENT GROUT SHALL BE PLACED BETWEEN THE BACKING & THE STONE VENEER.
4. ANCHORED STONE VENEER TO BE A MAXIMUM OF 40 PSF & MAXIMUM 4" IN THICKNESS. CRC TABLE R703.8(2)
STONE VENEER OVER STEEL STUDS @ 16" c/c:
1. STEEL STUDS SHALL BE COLD-FORMED STEEL HAVING A MIN. BARE STEEL THICKNESS OF 0.0428".
2. ATTACH 2 LAYERS OF NO. 15 FELT, COMPLYING W/ ASTM D 226 FOR TYPE 1 FELT, TO PROVIDE CONTINUOUS WATER-RESISTIVE BARRIER.
3. ATTACH 2"x2" 0.0625 INCH ZINC-COATED OR NON-METALLIC COATED WIRE MESH
A.) ATTACHED W/ CORROSION-RESISTANT #8 SELF-DRILLING, TAPPING SCREWS AT 4" c/c & AT 8" c/c INTO TOP & BOTTOM TRACKS OR W/ EQUIVALENT WIRE TIES.
B.) ALL SCREWS SHALL EXTEND THROUGH THE STEEL STUDS A MIN. OF 3 EXPOSED THREADS.
C.) THERE SHALL BE NOT LESS THAN 0.1055" CORROSION-RESISTANT WIRE, OR APPROVED EQUAL, ATTACHED TO THE STUD W/ A MIN. OF A #8 SELF-DRILLING, TAPPING SCREW EXTENDING THROUGH THE STEEL STUD A MIN. OF 3 EXPOSED THREADS FOR EVERY 2 SQUARE FEET OF STONE VENEER. THIS TIE SHALL BE A LOOP HAVING LEGS NOT LESS THAN 15" IN LENGTH, SO BENT THAT IT WILL LIE IN THE STONE VENEER MORTAR JOINT.
D.) THE LAST 2" OF EACH WIRE LEG SHALL HAVE A RIGHT-ANGLE BEND.
4. 1" MIN. THICKNESS OF CEMENT GROUT SHALL BE PLACED BETWEEN THE BACKING & THE STONE VENEER.
STUCCO SIDING: WHEN THREE COAT STUCCO IS APPLIED OVER PLYWOOD SHEATHING, 2 LAYERS OF GRADE D PAPER WHEN APPLIED OVER THE SHEATHING. CRC 703.6.
STUCCO WEEP SCREEDS: INSTALL WEEP SCREEDS 2" ABOVE PAVED AREAS & 4" ABOVE SOIL.

WATER HEATERS:
WATER HEATERS: PROVIDE THE FOLLOWING:
1.) UNOBSTRUCTED 120v RECEPTACLE WITHIN 3'.
2.) CATEGORY III or IV VENT, OR TYPE B VENT W/ STRAIGHT PIPE BETWEEN OUTSIDE TERMINATION & WHERE WATER HEATER IS INSTALLED.
3.) WATER HEATERS CAPABLE OF IGNITING FLAMMABLE VAPORS LOCATED IN A GARAGE MUST BE 18" ABOVE THE FLOOR. CMC 308. CPC 507.13.
4.) CONDENSATE DRAIN NO MORE THAN 2" HIGHER THAN THE BASE OF THE WATER HEATER THAT ALLOWS NATURAL DRAINAGE WITHOUT PUMP ASSISTANCE.
5.) GAS SUPPLY LINE W/ A CAPACITY OF AT LEAST 200,000 BTU/HR.
6.) PROVIDE SEISMIC BRACING FOR W/H AT LOCATIONS EQUAL TO THE TOP & BOTTOM 1/3 OF ITS VERTICAL DIMENSION. STRAP SHALL BE A MIN. OF 4" ABOVE CONTROLS. CPC 507.2.
7.) A PRESSURE & TEMPERATURE RELIEF VALVE TO OUTSIDE W/ UNTHREADED PIPE FACING DOWNWARD BETWEEN 6" TO 24" ABOVE GROUND POINTING DOWNWARD. CPC 608.5.
8.) HOT WATER SUPPLY PIPING 3/4" & GREATER SHALL BE INSULATED. CEC 150.0 (J) 2 III
9.) HOT WATER PIPING SUPPLYING THE KITCHEN SHALL BE INSULATED. CEC 150.0 (J) 2 VI
10.) WHEN REQUIRED BY LOCAL BUILDING OFFICIALS: PROVIDE WATER HEATER PROTECTION WITH (2) 48" x 4" STEEL PIPE (ANSI SCHEDULE 40) IMBEDDED 12" INTO CONCRETE 12" DIA. x18" DEEP CONCRETE - FILL PIPE W/ CONCRETE. CPC 507.13.1.
11.) WATER HEATERS IN CONFINED SPACES: PROVIDE 50 SQUARE INCHES OF SCREENED VENT 12" FROM TOP & WITHIN 12" OF BOTTOM. CMC 701.6
ATTIC MOUNTED TANKLESS WATER HEATERS: CEC 150.0 (N)
1.) PROVIDE 24" SOLID PASSAGEWAY FROM ATTIC ACCESS TO 30"x30" WORKING PLATFORM.
2.) PROVIDE 120v RECEPTACLE WITHIN 3' & LIGHT NEAR THE UNIT W/ A SWITCH AT ENTRANCE TO PASSAGEWAY. CPC 508.4.
3.) CATEGORY III or IV VENT, OR TYPE B VENT W/ STRAIGHT PIPE BETWEEN OUTSIDE TERMINATION & WHERE WATER HEATER IS INSTALLED.
4.) A CONDENSATE DRAIN THAT IS NO MORE THAN 2" HIGHER THAN THE BASE OF THE INSTALLED WATER HEATER, AND ALLOWS NATURAL DRAINING WITHOUT PUMP ASSISTANCE
5.) A GAS SUPPLY LINE WITH A CAPACITY OF AT LEAST 200,000 BTU/HR.
6.) A 1.5" DEEP WATER HEATER PAN W/ DRAIN TO OUTSIDE.

WHOLE BUILDING VENTILATION:
WHOLE BUILDING VENTILATION: A BATHROOMS OR LAUNDRY EXHAUST FAN, AS THE QUALIFYING WHOLE-BUILDING VENTILATION FAN, SHALL COMPLY WITH THE FOLLOWING:
1.) A MINIMUM CFM RATING OF 75 CFM.
2.) BE RATED A MAXIMUM OF 1.0 SONE.
3.) THE CONTROL SWITCH MUST BE LABELED AS THE WHOLE-BUILDING VENTILATION & FAN SHOULD OPERATE WHENEVER THE HOME IS OCCUPIED.

WHOLE HOUSE FAN:
THE WHOLE HOUSE FAN SHALL HAVE INSULATED LOUVERS OR A COVER WHICH CLOSES WHEN THE FAN IS OFF. COVERS OR LOUVERS SHALL HAVE A MINIMUM INSULATION VALUE OF R-4.2.

WILD-LAND URBAN INTERFACE (W.U.I.):
DWELLINGS LOCATED WITHIN A STATE RESPONSIBILITY AREA SHALL COMPLY WITH THE FOLLOWING:
DECKING SURFACES: THE WALKING SURFACES OF DECKS, PORCHES, BALCONIES & STAIRS IS WITHIN 10' OF THE BUILDING, SHALL BE CONSTRUCTED OF ONE OF THE FOLLOWING MATERIALS: CRC 337.9.
1.) IGNITION-RESISTANT MATERIAL THAT COMPLIES WITH SFM STANDARDS 12-7A-4 & 12-7A-5.
2.) EXTERIOR FIRE RETARDANT TREATED WOOD.
3.) NONCOMBUSTIBLE MATERIAL.
4.) ANY MATERIAL THAT COMPLIES WITH SFM STANDARD 12-7A-4A WHEN ATTACHED EXTERIOR WALL COVERING IS ALSO EITHER NONCOMBUSTIBLE OR IGNITION-RESISTANT MATERIAL.
EAVES & SOFFITS:
MUST BE NON-COMBUSTIBLE OR IGNITION RESISTANT. OPEN ROOF EAVES ALLOWED W/ FIRE RESISTANT PLYWOOD OR OSB. CRC R337.7.
EAVE VENTS:
TO BE APPROVED EAVE VENTS THAT RESIST THE INTRUSION OF FLAME & BURNING EMBERS. CRC R337.6.3. EXCEPTION #1: VULCAN VENTS OR TESTED EQUIVALENT.
EXTERIOR DOORS:
MUST BE FIRE RESISTANT. DOOR EXT. SURFACE MUST BE NONCOMBUSTIBLE OR IGNITION RESISTANT MATERIAL OR BE SOLID CORE WOOD 1 3/8" THICK OR HAVE A FIRE-RESISTIVE RATING OF NOT LESS THAN 20 MINUTES. CRC R337.8.
EXTERIOR GLAZING/WINDOWS:
EXTERIOR GLAZING MUST BE DUAL PANE & HAVE AT LEAST (1) PANE OF TEMPERED GLASS. CRC R337.8.
EXTERIOR WALLS:
WALL COVERINGS TO BE NON-COMBUSTIBLE OR IGNITION RESISTANT. CRC R337.7.
FOUNDATION & GABLE ATTIC VENTS:
SHALL BE COVERED W/ METAL WIRE MESH OR NONCOMBUSTIBLE MATERIALS W/ MIN. OF 1/16" & SHALL NOT EXCEED 1/8" OPENINGS. CRC R337.6.
PORCH CEILINGS: MUST BE IGNITION-RESISTANT OR NON-COMBUSTIBLE. CRC R337.7.6.
ROOF GUTTERS:
SHALL BE PROVIDED W/ MEANS TO PREVENT THE ACCUMULATION OF LEAVES & DEBRIS IN GUTTERS. CRC R337.5.4.

WINDOWS & DOORS:
SAFETY GLAZING:
HAZARDOUS LOCATIONS REQUIRING SAFETY GLAZING INCLUDE THE FOLLOWING:
GLAZING IN DOORS: IN ALL FIXED & OPERABLE PANELS OF SWINGING, SLIDING & BI-FOLD DOORS. EXCEPTIONS: 1) OPENING IN WHICH A 3" DIAMETER SPHERE IS UNABLE TO PASS. 2) IN DECORATIVE GLAZING. CRC R308.4.1.
GLAZING ADJACENT DOORS: CRC R308.4.2 GLAZING WITHIN A 24" ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION & WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60" ABOVE THE FLOOR OR WALKING SURFACE. EXCEPTIONS: 1) DECORATIVE GLAZING. 2) WHERE THERE IS AN INTERVENING WALL OR PERMANENT BARRIER BETWEEN THE DOOR & GLAZING. 3) GLAZING IN WALLS ON THE LATCH SIDE OF & PERPENDICULAR TO THE PLANE OF THE DOOR IN A CLOSED POSITION. 4) WHERE ACCESS THROUGH THE DOOR IS TO A CLOSET OR STORAGE AREA 3' OR LESS IN DEPTH. GLAZING IN THIS APPLICATION SHALL COMPLY WITH CRC R308.4.3. 5) GLAZING THAT IS ADJACENT TO THE FIXED PANEL OF PATIO DOORS.
GLAZING IN WINDOWS: CRC R308.4.3. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL THAT MEETS ALL OF THE FOLLOWING CONDITIONS SHALL BE CONSIDERED HAZARDOUS LOCATIONS: 1)THE EXPOSED AREA OF AN INDIVIDUAL PANE IS LARGER THAN 9 SQFT. 2) THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18" ABOVE THE FLOOR. 3.) THE TOP EDGE OF THE GLAZING IS MORE THAN 36" ABOVE THE FLOOR: AND 4) ONE OR MORE WALKING SURFACES ARE WITHIN 36" MEASURED HORIZONTALLY & IN A STRAIGHT LINE OF THE GLAZING. EXCEPTIONS: 1) DECORATIVE GLAZING. 2) WHEN A HORIZONTAL RAIL IS INSTALLED ON THE ACCESSIBLE SIDE(S) OF THE GLAZING 34" TO 38" ABOVE THE WALKING SURFACE. THE RAIL SHALL BE CAPABLE OF WITHSTANDING A HORIZONTAL LOAD OF 50 POUNDS PER LINEAR FOOT WITHOUT CONTACTING THE GLASS & BE A MINIMUM OF 1 1/2" IN CROSS SECTIONAL HEIGHT.
GLAZING IN GUARDS & RAILS: CRC R308.4.4. GLAZING IN GUARDS & RAILS SHALL BE CONSIDERED HAZARDOUS.
GLAZING & WET SURFACES: CRC R308.4.5. GLAZING IN WALLS, ENCLOSURES OR FENCES CONTAINING OR FACING HOT TUBS, SPAS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS, SHOWERS & INDOOR OR OUTDOOR SWIMMING POOLS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60" ABOVE A STANDING OR WALKING SURFACE SHALL BE CONSIDERED HAZARDOUS. THIS SHALL APPLY TO SINGLE GLAZING & ALL PANES IN MULTIPLE GLAZING. EXCEPTION: GLAZING THAT IS MORE THAN 60" MEASURED HORIZONTALLY & IN A STRAIGHT LINE FROM THE WATER'S EDGE OF A BATHTUB, HOT TUB, SPA, WHIRLPOOL OR SWIMMING POOL.
GLAZING ADJACENT STAIRS & RAMPS: CRC R308.4.6. GLAZING WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 36" ABOVE THE PLANE OF THE ADJACENT WALKING SURFACE OF STAIRWAYS, LANDINGS BETWEEN FLIGHTS OF STAIRS & RAMPS SHALL BE CONSIDERED A HAZARDOUS LOCATION. EXCEPTION: 1) WHEN A RAIL IS INSTALLED ON THE ACCESSIBLE SIDE(S) OF THE GLAZING 34" TO 38" ABOVE THE WALKING SURFACE. THE RAIL SHALL BE CAPABLE OF WITHSTANDING A HORIZONTAL LOAD OF 50 POUNDS PER LINEAR FOOT WITHOUT CONTACTING THE GLASS & BE A MINIMUM OF 1 1/2" IN CROSS SECTIONAL HEIGHT. 2) GLAZING 36" OR MORE MEASURED HORIZONTALLY FROM THE WALKING SURFACE.
GLAZING ADJACENT TO THE BOTTOM OF STAIR LANDING: GLAZING ADJACENT TO THE LANDING AT THE BOTTOM OF A STAIRWAY WHERE THE GLAZING IS LESS THAN 36" ABOVE THE LANDING & WITHIN 60" HORIZONTALLY OF THE BOTTOM TREAD SHALL BE CONSIDERED A HAZARDOUS LOCATION. EXCEPTION: THE GLAZING IS PROTECTED BY A GUARD COMPLYING WITH CRC R312 & THE PLANE OF THE GLASS IS MORE THAN 18" FROM THE GUARD.
GLAZING MORE THAN 72" ABOVE FINISHED GRADE: WINDOWS HAVING OPENINGS LOCATED WITHIN 24" OF THE FINISHED FLOOR TO BE PROVIDED WITH WINDOW FALL PREVENTION DEVICES OR OPENING CONTROL DEVICES THAT COMPLY WITH ASTM F 2090. CRC R312.2.1
ALL HABITABLE ROOMS: SHALL HAVE AN AGGREGATE GLAZING AREA OF NOT LESS THAN 8% OF THE FLOOR AREA OF SUCH ROOMS. NATURAL VENTILATION SHALL BE THROUGH WINDOWS, DOORS, LOUVERS OR OTHER APPROVED OPENINGS TO THE OUTDOOR AIR. SUCH OPENINGS SHALL BE PROVIDED WITH READY ACCESS OR SHALL OTHERWISE BE READILY CONTROLLABLE BY THE BUILDING OCCUPANTS. THE MINIMUM OPENABLE AREA TO THE OUTDOORS SHALL BE 4 PERCENT OF THE FLOOR AREA BEING VENTILATED. CRC R303.1.
LAST UPDATED: 9/27/2018

ARCH D (24" x 36")

WHILE EVERY ATTEMPT HAS BEEN MADE IN THE PREPARATION OF THIS PLAN TO AVOID MISTAKES, THE MAKER CANNOT GUARANTEE AGAINST HUMAN ERROR.

BUILDING CONTRACTOR / HOME OWNER TO REVIEW AND VERIFY ALL DIMENSIONS, SPECS, AND CONNECTIONS BEFORE CONSTRUCTION BEGINS.

DRAFTING BY:
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ENERGY CALCS BY:
GOLDEN SUN DESIGNS
MAX RAMIREZ

SUMMIT STRUCTURAL DESIGN

THESE PLANS HAVE BEEN REVIEWED ONLY FOR COMPLIANCE WITH ATTACHED STRUCTURAL CALCULATIONS.

THE ENGINEER'S STAMP ON THIS PLAN IS VALID ONLY WITH A LETTER SIGNED BY THIS ENGINEER FOR EACH UNIQUE BUILD.

A ADDITIONAL DWELLING for:
KYLIE BECHHOLD
1190 WARNER STREET, CHICO, CA 95926
ASSESSORS PARCEL NUMBER 003 - 053 - 010

NOTES
INCLUDING:
CAL GREEN NOTES

LIVABLE:
958 SqFt TOTAL

GARAGE:
378 SqFt

COVERED PATIO:
133 SqFt

DATE:
3/3/2019

SCALE:
SHOWN

958
1 STORY

SHEET
5

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BUILDING ENERGY ANALYSIS REPORT

PROJECT:

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Chico, CA 96026

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Job Number:

122118-Kylie Bechold #958

Date:

12/21/2018

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2016 Building Energy Efficiency Standards.

This program developed by EnergySoft Software – www.energysoft.com.

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Project Name: Residential Building
Calculation Description: Title 24 Analysis
Calculation Date/Time: 15:01, Fri, Dec 21, 2018
Input File Name: 12-21-18-Kylie Bechold-Pln #958 (Scott Bechhold)-1190 Warner st.ribd16x

GENERAL INFORMATION

01	Project Name	Residential Building			
02	Calculation Description	Title 24 Analysis			
03	Project Location	1190 Warner Street			
04	City	Chico	05	Standards Version	Compliance 2017
06	Zip Code	96026	07	Compliance Manager Version	BEMCmpMgr 2016.3.1 (1149)
08	Climate Zone	CZ11	09	Software Version	EnergyPro 7.2
10	Building Type	Single Family	11	Front Orientation (deg/Cardinal)	90
12	Project Scope	Newly Constructed	13	Number of Dwelling Units	1
14	Total Cond. Floor Area (ft²)	958	15	Number of Zones	1
16	Slab Area (ft²)	958	17	Number of Stories	1
18	Addition Cond. Floor Area(ft²)	n/a	19	Natural Gas Available	Yes
20	Addition Slab Area (ft²)	n/a	21	Glazing Percentage (%)	8.5%

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

ENERGY USE SUMMARY

04 Energy Use (kTDV/ft²-yr)	05 Standard Design	06 Proposed Design	07 Compliance Margin	08 Percent Improvement
Space Heating	18.58	14.59	3.99	21.5%
Space Cooling	37.67	42.46	-4.79	-12.7%
IAQ Ventilation	1.61	1.61	0.00	0.0%
Water Heating	14.80	13.79	1.01	6.8%
Photovoltaic Offset	----	0.00	0.00	----
Compliance Energy Total	72.66	72.45	0.21	0.3%

Registration Number: 218-P010035435A-000-000-0000000-0000 Registration Date/Time: 2018-12-21 15:19:22 HERS Provider: CalCERTS inc.
CA Building Energy Efficiency Standards - 2016 Residential Compliance Report Version - CF1R-11302018-1149 Report Generated at: 2018-12-21 15:02:16

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ENERGY DESIGN RATING

Energy Design Rating (EDR) is an alternate way to express the energy performance of a building using a scoring system where 100 represents the energy performance of the Residential Energy Services (RESNET) reference home characterization of the 2006 International Energy Conservation Code (IECC) with California modeling assumptions. A score of zero represents the energy performance of a building that combines high levels of energy efficiency with renewable generation to "zero out" its TDV energy. Because EDR includes consideration of components not regulated by Title 24, Part 6 (such as domestic appliances and consumer electronics), it is not used to show compliance with Part 6 but may instead be used by local jurisdictions pursuing local ordinances under Title 24, Part 11 (CALGreen). As a Standard Design building under the 2016 Building Energy Efficiency Standards is significantly more efficient than the baseline EDR building, the EDR of the Standard Design building is provided for information. Similarly, the EDR score of the Proposed Design is provided separately from the EDR value of installed PV so that the effects of efficiency and renewable energy can both be seen.

EDR of Standard Efficiency	EDR of Proposed Efficiency	EDR Value of Proposed PV + Battery	Final Proposed EDR
52.9	52.8	0.0	52.8

- ☐ Design meets Tier 1 requirement of 15% or greater code compliance margin (CALGreen A4.203.1.2.1) and OII verification prerequisite.
- ☐ Design meets Tier 2 requirement of 30% or greater code compliance margin (CALGreen A4.203.1.2.2) and OII verification prerequisite.
- ☐ Design meets Zero Net Energy (ZNE) Design Designation requirement for Single Family in climate zone CZ11 (CALGreen A4.203.1.2.3) including on-site photovoltaic (PV) renewable energy generation sufficient to achieve a Final Energy Design Rating (EDR) of zero or less. The PV System and OII must be verified.

Notes:
- Excess PV Generation EDR Credit: Bypassing PV size limit may violate Net Energy Metering (NEM) rules

REQUIRED SPECIAL FEATURES

The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.
- Whole house fan
- Ceiling has high level of insulation
- Window overhangs and/or fins

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 components tables below.

Building-level Verifications:
- High quality insulation installation (QII)
- IAQ mechanical ventilation

Cooling System Verifications:
- Minimum Airflow
- Verified EER
- Verified SEER
- Verified Refrigerant Charge
- Fan Efficacy Watts/CFM

HVAC Distribution System Verifications:
- Duct Sealing

Domestic Hot Water System Verifications:
- -- None --

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

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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	958	1	2	1	1	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 Water Heating System 2
Zone 1	Conditioned	HVAC System1	958	9	DHW Sys 1	n/a

OPAQUE SURFACES

01 Name	02 Zone	03 Construction	04 Azimuth	05 Orientation	06 Gross Area (ft²)	07 Window & Door Area (ft²)	08 Tilt (deg)
Front Wall	Zone 1	R-23 Wall Syn Stc	90	Front	240	50	90
Left Wall	Zone 1	R-23 Wall Syn Stc	180	Left	270	6	90
Rear Wall	Zone 1	R-23 Wall Syn Stc	270	Back	292.5	45	90
Right Wall	Zone 1	R-23 Wall Syn Stc	0	Right	27	0	90
Interior Surface	Zone 1>>__Garage__	R-23 Wall Syn Stc1	n/a	n/a	243	35.6	n/a
Roof	Zone 1	R-49 Roof Attic w/RB	n/a	n/a	958	n/a	n/a
Front Wall 2	__Garage__	R-0 Wall 2x6	90	Front	178.5	80	90
Rear Wall 2	__Garage__	R-0 Wall 2x6	270	Back	126	0	90
Right Wall 2	__Garage__	R-0 Wall 2x6	0	Right	243	0	90
Roof 2	__Garage__	R-0 Roof Attic	n/a	n/a	378	n/a	n/a

ATTIC

01 Name	02 Construction	03 Type	04 Roof Rise	05 Roof Reflectance	06 Roof Emittance	07 Radiant Barrier	08 Cool Roof
Attic Zone 1	Attic RoofZone 1	Ventilated	6	0.1	0.85	Yes	No
Attic __Garage__	Attic Garage Roof Cons	Ventilated	6	0.1	0.85	No	No

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FENESTRATION / GLAZING

01 Name	02 Type	03 Surface (Orientation-Azimuth)	04 Width (ft)	05 Height (ft)	06 Multiplier	07 Area (ft²)	08 U-factor	09 SHGC	10 Exterior Shading
Window	Window	Front Wall (Front-90)	7.5	4.0	1	30.0	0.30	0.23	Insect Screen (default)
Window 2	Window	Left Wall (Left-180)	----	----	1	6.0	0.30	0.23	Insect Screen (default)
Window 3	Window	Rear Wall (Back-270)	----	----	1	45.0	0.30	0.23	Insect Screen (default)

OPAQUE DOORS

01 Name	02 Side of Building	03 Area (ft²)	04 U-factor
Door	Front Wall	20.0	0.50
Door 2	Interior Surface	35.6	0.50
Door 3	Front Wall 2	80.0	0.18

OVERHANGS AND FINS

01 Window	02 Depth	03 Dist Up	04 Left Extent	05 Right Extent	06 Flap Ht.	07 Depth	08 Top Up	09 Dist L	10 Bot Up	11 Depth	12 Top Up	13 Dist R	14 Bot Up
Window	8	2.3	1.2	7.2	0	0	0	0	0	0	0	0	0

(02–06 Overhang; 07–10 Left Fin; 11–14 Right Fin)

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

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OPAQUE SURFACE CONSTRUCTIONS

01 Construction Name	02 Surface Type	03 Construction Type	04 Framing	05 Total Cavity R-value	06 Winter Design U-factor	07 Assembly Layers
R-0 Wall 2x6	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O.C.	none	0.349	Inside Finish: Gypsum Board; Cavity / Frame: no insul. / 2x6; Exterior Finish: Synthetic Stucco
R-0 Roof Attic	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 24 in. O.C.	none	0.481	Inside Finish: Gypsum Board; Cavity / Frame: no insul. / 2x4
Attic Garage Roof Cons	Attic Roofs	Wood Framed Ceiling	2x4 Top Chord of Roof Truss @ 24 in. O.C.	none	0.644	Cavity / Frame: no insul. / 2x4 Top Chrd; Roof Deck: Wood Siding/sheathing/decking; Roofing: Light Roof (Asphalt Shingle)
Attic RoofZone 1	Attic Roofs	Wood Framed Ceiling	2x4 Top Chord of Roof Truss @ 24 in. O.C.	none	0.644	Cavity / Frame: no insul. / 2x4 Top Chrd; Roof Deck: Wood Siding/sheathing/decking; Roofing: Light Roof (Asphalt Shingle)
R-23 Wall Syn Stc	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O.C.	R 23	0.066	Inside Finish: Gypsum Board; Cavity / Frame: R-23 / 2x6; Exterior Finish: Synthetic Stucco
R-49 Roof Attic w/RB	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 24 in. O.C.	R 49	0.020	Inside Finish: Gypsum Board; Cavity / Frame: R-9.1 / 2x4; Over Ceiling Joists: R-39.9 insul.
R-23 Wall Syn Stc1	Interior Walls	Wood Framed Wall	2x6 @ 16 in. O.C.	R 23	0.061	Inside Finish: Gypsum Board; Cavity / Frame: R-23 / 2x6; Other Side Finish: Gypsum Board

SLAB FLOORS

01 Name	02 Zone	03 Area (ft²)	04 Perimeter (ft)	05 Edge Insul. R-value & Depth	06 Carpeted Fraction	07 Heated
Slab	Zone 1	958	92.2	None	0.8	No
Slab 2	__Garage__	378	60.1	None	0	No

BUILDING ENVELOPE - HERS VERIFICATION

01 Quality Insulation Installation (QII)	02 Quality Installation of Spray Foam Insulation	03 Building Envelope Air Leakage	04 CFM50
Required	Not Required	Not Required	n/a

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

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WATER HEATING SYSTEMS

01 Name	02 System Type	03 Distribution Type	04 Water Heater	05 Number of Heaters	06 Solar Fraction (%)
DHW Sys 1	DHW	Standard	DHW Heater 1 (1)	1	0%

WATER HEATERS

01 Name	02 Heater Element Type	03 Tank Type	04 Number of Units	05 Tank Volume (gal)	06 Uniform Energy Factor / Energy Factor / Efficiency	07 Input Rating / Pilot / Thermal Efficiency	08 Tank Insulation R-value (Int/Ext)	09 Standby Loss / Recovery Eff	10 First Hour Rating / Flow Rate	11 NEEA Heat Pump Brand / Model / Other	12 Tank Location or Ambient Condition
DHW Heater 1	Gas	Small Instantaneous	1	0	0.88 EF	<= 200 kBtu/hr	R-0/R-0	0	n/a	n/a	n/a

SPACE CONDITIONING SYSTEMS

01 SC Sys Name	02 System Type	03 Heating Unit Name	04 Cooling Unit Name	05 Fan Name	06 Distribution Name
HVAC System1	Other Heating and Cooling System	Heating Component 1	Cooling Component 1	HVAC Fan 1	Air Distribution System 1

HVAC - HEATING UNIT TYPES

01 Name	02 System Type	03 Number of Units	04 Efficiency
Heating Component 1	CntrlFurnace	1	94 AFUE

HVAC - COOLING UNIT TYPES

01 Name	02 System Type	03 Number of Units	04 Efficiency EER	05 Efficiency SEER	06 Zonally Controlled	07 Compressor Type	08 HERS Verification
Cooling Component 1	SplitAirCond	1	13	15	Not Zonal	Single Speed	Cooling Component 1-hers-cool

HVAC COOLING - HERS VERIFICATION

01 Name	02 Verified Airflow	03 Airflow Target	04 Verified EER	05 Verified SEER	06 Verified Refrigerant Charge
Cooling Component 1-hers-cool	Required	350	Required	Required	Required

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HVAC - DISTRIBUTION SYSTEMS

01 Name	02 Type	03 Duct Leakage	04 Insulation R-value	05 Duct Location	06 Bypass Duct	07 HERS Verification
Air Distribution System 1	DuctsAttic	Sealed and tested	8	Attic	None	Air Distribution System 1-hers-dist

HVAC DISTRIBUTION - HERS VERIFICATION

01 Name	02 Duct Leakage Verification	03 Duct Leakage Target (%)	04 Verified Duct Location	05 Verified Duct Design	06 Buried Ducts	07 Deeply Buried Ducts	08 Low-leakage Air Handler
Air Distribution System 1-hers-dist	Required	5.0	Not Required	Not Required	Not Required	Not Required	n/a

HVAC - FAN SYSTEMS

01 Name	02 Type	03 Fan Power (Watts/CFM)	04 HERS Verification
HVAC Fan 1	Single Speed PSC Furnace Fan	0.58	HVAC Fan 1-hers-fan

HVAC FAN SYSTEMS - HERS VERIFICATION

01 Name	02 Verified Fan Watt Draw	03 Required Fan Efficiency (Watts/CFM)
HVAC Fan 1-hers-fan	Required	0.58

IAQ (Indoor Air Quality) FANS

01 Dwelling Unit	02 IAQ CFM	03 IAQ Watts/CFM	04 IAQ Fan Type	05 IAQ Recovery Effectiveness(%)	06 HERS Verification
SFam IAQVentRpt	32	0.25	Default	0	Required

COOLING VENTILATION

01 Name	02 Airflow Rate (CFM/ft2)	03 Cooling Vent CFM	04 Cooling Vent Watts/CFM	05 Total Watts	06 Number of Fans
WH Fan 1	3.02609603340292225	2899	0.0910659	264	1

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

CF1R-PRF-01 Page 8 of 8

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Max Ramirez	Documentation Author Signature: *Max Ramirez*
Company: Golden Sun Designs	Signature Date: 2018-12-21 15:19:22
Address: 22189 Samson Ave	CEA/HERS Certification Identification (If applicable): N/A
City/State/Zip: Corning, CA 96021	Phone: 530-321-7242

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: Max Ramirez	Responsible Designer Signature: *Max Ramirez*
Company: Golden Sun Designs	Date Signed: 2018-12-21 15:19:22
Address: 22189 Samson Ave	License: N/A
City/State/Zip: Corning, CA 96021	Phone: 530-321-7242

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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RESIDENTIAL MEASURES SUMMARY — RMS-1

Project Name	Building Type	Date
Kylie Bechold	☑ Single Family ☐ Addition Alone ☐ Multi Family ☐ Existing+ Addition/Alteration	12/21/2018

Project Address	California Energy Climate Zone	Total Cond. Floor Area	Addition	# of Units
1190 Warner Street Chico	CA Climate Zone 11	958	n/a	1

INSULATION

Construction	Type	Cavity	Area (ft²)	Special Features	Status
Wall	Wood Framed	R 23	936		New
Door	Opaque Door	- no insulation	20		New
Roof	Wood Framed Attic	R 49	958		New
Slab	Unheated Slab-on-Grade	- no insulation	958	Perim = 92'	New

FENESTRATION Total Area: 81 Glazing Percentage: 8.5 % New/Altered Average U-Factor: 0.30

Orientation	Area(ft²)	U-Fac	SHGC	Overhang	Sidefins	Exterior Shades	Status
Front (E)	30.0	0.300	0.23	8.0	none	Bug Screen	New
Left (S)	6.0	0.300	0.23	none	none	Bug Screen	New
Rear (W)	45.0	0.300	0.23	none	none	Bug Screen	New

HVAC SYSTEMS

Qty.	Heating	Min. Eff	Cooling	Min. Eff	Thermostat	Status
1	Central Furnace	94% AFUE	Split Air Conditioner	15.0 SEER	Setback	New

HVAC DISTRIBUTION

Location	Heating	Cooling	Duct Location	Duct R-Value	Status
HVAC System	Ducted	Ducted	Attic	8.0	New

WATER HEATING

Qty.	Type	Gallons	Min. Eff	Distribution	Status
1	Small Instantaneous Gas	0	0.88	Standard	New

EnergyPro 7.2 by EnergySoft User Number: 5733 ID: 122118-Kylie Bechold Page 11 of 15

2016 Low-Rise Residential Mandatory Measures Summary

*NOTE: Low-rise residential buildings subject to the Energy Standards must comply with all applicable mandatory measures, regardless of the compliance approach used. Review the respective section for more information. *Exceptions may apply.* (Revised 04/2017)

Building Envelope Measures:

§ 110.6(a)1:	**Air Leakage.** Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 cfm/ft² or less when tested per NFRC-400 or ASTM E283 or AAMA/WDMA/CSA 101/I.S.2/A440-2011.*
§ 110.6(a)5:	**Labeling.** Fenestration products 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 and 110.6-B for compliance and must be caulked and/or weatherstripped.*
§ 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 specified or installed must meet Standards for Insulating Material.
§ 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) when the installation of a cool roof is specified on the CF1R.
§ 110.8(j):	**Radiant Barrier.** A radiant barrier must have an emittance of 0.05 or less and be certified to the Department of Consumer Affairs.
§ 150.0(a):	**Ceiling and Rafter Roof Insulation.** Minimum R-22 insulation in wood-frame ceiling; or the weighted average U-factor must not exceed 0.043. Minimum R-19 or weighted average U-factor of 0.054 or less in a rafter roof alteration. Attic access doors must have permanently attached insulation using adhesive or mechanical fasteners. The attic access must be gasketed to prevent air leakage. Insulation must be installed in direct contact with a continuous roof or ceiling which is sealed to limit infiltration and exfiltration as specified in § 110.7, including but not limited to placing insulation either above or below the roof deck or on top of a 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):	**Above Grade Wall Insulation.** Minimum R-13 insulation in 2x4 inch wood framing wall or have a U-factor of 0.102 or less (R-19 in 2x6 or U-factor of 0.074 or less). Opaque non-framed assemblies must have an overall assembly U-factor not exceeding 0.102, equivalent to an installed value of R-13 in a wood framed assembly.*
§ 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%; have a water vapor permeance no greater than 2.0 perm/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 1-16, 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 0.58; or the weighted average U-factor of all fenestration must not exceed 0.58.*

Fireplaces, Decorative Gas Appliances, and Gas Log Measures:

§ 150.0(e)1A:	**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)1B:	**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)1C:	**Flue Damper.** Masonry or factory-built fireplaces must have a flue damper with a readily accessible control.*
§ 150.0(e)2:	**Pilot Light.** Continuous burning pilot lights and the use of indoor air for cooling a firebox jacket, when that indoor air is vented to the outside of the building, are prohibited.

Space Conditioning, Water Heating, and Plumbing System Measures:

§ 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 Energy Commission.*
§ 110.2(a):	**HVAC Efficiency.** Equipment must meet the applicable efficiency requirements in TABLE 110.2-A through TABLE 110.2-K.*
§ 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 unitary heating or cooling systems not controlled by a central energy management control system (EMCS) must have a setback thermostat.*
§ 110.3(c)5:	**Water Heating Recirculation Loops Serving Multiple Dwelling Units.** Water heating recirculation loops serving multiple dwelling units must meet the air release valve, backflow prevention, pump priming, pump isolation valve, and recirculation loop connection requirements of § 110.3(c)5.
§ 110.3(c)7:	**Isolation Valves.** Instantaneous water heaters with an input rating greater than 6.8 kBTU/hr (2 kW) must have isolation valves with hose bibbs or other fittings on both cold water and hot water lines of water heating systems to allow for water tank flushing when the valves are closed.
§ 110.5:	**Pilot Lights.** Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces; household cooking appliances (appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu/hr are exempt); and pool and spa heaters.*
§ 150.0(h)1:	**Building Cooling and Heating Loads.** Heating and/or cooling loads are calculated in accordance with ASHRAE Handbook, Equipment Volume, Applications Volume, and Fundamentals Volume; SMACNA Residential Comfort System Installation Standards Manual; or ACCA Manual J using design conditions specified in § 150.0(h)2.

2016 Low-Rise Residential Mandatory Measures Summary

§ 150.0(h)3A:	**Clearances.** Installed air conditioner and heat pump outdoor condensing units must have a clearance of at least 5 feet from the outlet of any dryer vent.
§ 150.0(h)3B:	**Liquid Line Drier.** Installed air conditioner and heat pump systems must be equipped with liquid line filter driers if required, as specified by manufacturer's instructions.
§ 150.0(j)1:	**Storage Tank Insulation.** Unfired hot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must have R-12 external insulation or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank.
§ 150.0(j)2A:	**Water piping and cooling system line insulation.** For domestic hot water system piping, whether buried or unburied, all of the following must be insulated according to the requirements of TABLE 120.3-A: the first 5 feet of hot and cold water pipes from the storage tank; all piping with a nominal diameter of 3/4 inch or larger; all piping associated with a domestic hot water recirculation system regardless of the pipe diameter; piping from the heating source to storage tank or between tanks; piping buried below grade; and all hot water pipes from the heating source to kitchen fixtures.*
§ 150.0(j)2B:	**Water piping and cooling system line insulation.** All domestic hot water pipes that are buried below grade must be installed in a water proof and non-crushable casing or sleeve.*
§ 150.0(j)2C:	**Water piping and cooling system line insulation.** Pipe for cooling system lines must be insulated as specified in § 150.0(j)2A. Distribution piping for steam and hydronic heating systems or hot water systems must meet the requirements in TABLE 120.3-A.*
§ 150.0(j)3:	**Insulation Protection.** Insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind.
§ 150.0(j)3A:	**Insulation Protection.** Insulation exposed to weather must be installed with a cover suitable for outdoor service. For example, protected by aluminum, sheet metal, painted canvas, or plastic cover. The cover must be water retardant and provide shielding from solar radiation that can cause degradation of the material.
§ 150.0(j)3B:	**Insulation Protection.** Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space must have a Class I or Class II vapor retarder.
§ 150.0(n)1:	**Gas or Propane Systems.** Systems using gas or propane water heaters to serve individual dwelling units must include all of the following: a 120V electrical receptacle within 3 feet of the water heater; a Category III or IV vent, or a Type B vent with straight pipe between the outside termination and the space where the water heater is installed; a condensate drain that is no more than 2 inches higher than the base of the water heater, and allows natural draining without pump assistance; and a gas supply line with a capacity of at least 200,000 Btu/hr.
§ 150.0(n)2:	**Recirculating Loops.** Recirculating loops serving multiple dwelling units must meet the requirements of § 110.3(c)5.
§ 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) or by a listing agency that is approved by the Executive Director.

Ducts and Fans Measures:

§ 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 be installed, sealed, and insulated to meet the requirements of CMC §§ 601.0, 602.0, 603.0, 604.0, 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 a minimum installed level of R-6.0 (or higher if required by CMC § 605.0) or a minimum installed level of R-4.2 when entirely in conditioned space as confirmed through field verification and diagnostic testing (RA3.1.4.3.8). Connections of metal ducts and inner core of flexible ducts must be mechanically fastened. Openings must be sealed with mastic, tape, or other duct-closure system that meets the applicable requirements of UL 181, UL 181A, or UL 181B or aerosol sealant that meets the requirements of UL 723. If mastic or tape is used to seal openings greater than ¼ inch, the combination of mastic and either mesh or tape must be used. Building cavities, support platforms for air handlers, and plenums designed or constructed with materials other than sealed sheet metal, duct board or flexible duct must not be used for conveying conditioned air. Building cavities and support platforms may contain ducts. Ducts installed in cavities and support platforms must not be compressed to cause reductions in the cross-sectional area of the ducts.*
§ 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 Dampers.** All fan systems that exchange air between the conditioned space and the outside of the building 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, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather must be suitable for outdoor service. For example, protected by aluminum, sheet metal, painted canvas, or plastic cover. Cellular foam insulation must be protected as above or painted with a coating that is water retardant and provides shielding from solar radiation.
§ 150.0(m)10:	**Porous Inner Core Flex Duct.** Porous inner core flex duct must have a non-porous layer 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 § 150.0(m)11 and Reference Residential Appendix RA3.
§ 150.0(m)12:	**Air Filtration.** Mechanical systems that supply air to an occupiable space through ductwork exceeding 10 feet in length and through a thermal conditioning component, except evaporative coolers, must be provided with air filter devices that meet the design, installation, efficiency, pressure drop, and labeling requirements of § 150.0(m)12.

2016 Low-Rise Residential Mandatory Measures Summary

§ 150.0(m)13:	**Duct System Sizing and Air Filter Grille Sizing.** Space conditioning systems that use forced air ducts to supply cooling to an occupiable space must have a hole for the placement of a static pressure probe (HSPP), or a permanently installed static pressure probe (PSPP) in the supply plenum. The space conditioning system must also demonstrate airflow ≥ 350 CFM per ton of nominal cooling capacity through the return grilles, and an air-handling unit fan efficacy ≤ 0.58 W/CFM as confirmed by field verification and diagnostic testing, in accordance with Reference Residential Appendix RA3.3. This applies to both single zone central forced air systems and every zone for zonally controlled central forced air systems.*
§ 150.0(o):	**Ventilation for Indoor Air Quality.** All dwelling units must meet the requirements of ASHRAE Standard 62.2. Neither window operation nor continuous operation of central forced air system air handlers used in central fan integrated ventilation systems are permissible methods of providing whole-building ventilation.
§ 150.0(o)1A:	**Field Verification and Diagnostic Testing.** Whole-building ventilation airflow must be confirmed through field verification and diagnostic testing, in accordance with Reference Residential Appendix RA3.7.

Pool and Spa Systems and Equipment Measures:

§ 110.4(a):	**Certification by Manufacturers.** Any pool or spa heating system or equipment must be certified to have all of the following: a thermal efficiency that complies with the Appliance Efficiency Regulations; an on-off switch mounted outside of the heater that allows shutting off the heater without adjusting the thermostat setting; a permanent weatherproof plate or card with operating instructions; and must not use electric resistance heating.*
§ 110.4(b)1:	**Piping.** Any pool or spa heating 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 Measures:

§ 110.9:	**Lighting Controls and Components.** All lighting control devices and systems, ballasts, and luminaires must meet the applicable requirements of § 110.9.*
§ 110.9(e):	**JA8 High Efficacy Light Sources.** To qualify as a JA8 high efficacy light source for compliance with § 150.0(k), a residential light source must be certified to the Energy Commission according to Reference Joint Appendix JA8.
§ 150.0(k)1A:	**Luminaire Efficacy.** All installed luminaires must be high efficacy in accordance with TABLE 150.0-A.
§ 150.0(k)1B:	**Blank Electrical Boxes.** The number of electrical boxes that are more than 5 feet above the finished floor and do not contain a luminaire or other device must be no greater than the number of bedrooms. These electrical boxes must be served by a dimmer, vacancy sensor control, or fan speed control.
§ 150.0(k)1C:	**Recessed Downlight Luminaires in Ceilings.** Luminaires recessed into ceilings must meet all of the requirements for: insulation contact (IC) labeling; air leakage; sealing; maintenance; and socket and light source as described in § 150.0(k)1C. A JA8-2016-E light source rated for elevated temperature must be installed by final inspection in all recessed downlight luminaires in ceilings.
§ 150.0(k)1D:	**Electronic Ballasts.** Ballasts for fluorescent lamps rated 13 watts or greater must be electronic and must have an output frequency no less than 20 kHz.
§ 150.0(k)1E:	**Night Lights.** Permanently installed night lights and night lights integral to installed luminaires or exhaust fans must be rated to consume no more than 5 watts of power per luminaire or exhaust fan as determined in accordance with § 130.0(c). Night lights do not need to be controlled by vacancy sensors.
§ 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).*
§ 150.0(k)1G:	**Screw based luminaires.** Screw based luminaires must not be recessed downlight luminaires in ceilings and must contain lamps that comply with Reference Joint Appendix JA8. Installed lamps must be marked with "JA8-2016" or "JA8-2016-E" as specified in Reference Joint Appendix JA8.*
§ 150.0(k)1H:	**Enclosed Luminaires.** Light sources installed in enclosed luminaires must be JA8 compliant and must be marked with "JA8-2016-E."
§ 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 switched separately from lighting systems.*
§ 150.0(k)2C:	**Interior Switches and Controls.** Luminaires must be switched with readily accessible controls that permit the luminaires to be manually switched ON and OFF.
§ 150.0(k)2D:	**Interior Switches and Controls.** Controls and equipment must be installed in accordance with manufacturer's instructions.
§ 150.0(k)2E:	**Interior Switches and Controls.** No control must bypass a dimmer or vacancy sensor function if the control is installed to comply with § 150.0(k).
§ 150.0(k)2F:	**Interior Switches and Controls.** Lighting controls must comply with the applicable requirements of § 110.9.
§ 150.0(k)2G:	**Interior Switches and Controls.** An energy management control system (EMCS) may be used to comply with dimmer requirements if it: functions as a dimmer according to § 110.9; meets the Installation Certificate requirements of § 130.4; meets the EMCS requirements of § 130.5(f); and meets all other requirements in § 150.0(k)2.
§ 150.0(k)2H:	**Interior Switches and Controls.** An EMCS may be used to comply with vacancy sensor requirements in § 150.0(k) if it meets all of the following: it functions as a vacancy sensor according to § 110.9; the Installation Certificate requirements of § 130.4; the EMCS requirements of § 130.5(f); and all other requirements in § 150.0(k)2.
§ 150.0(k)2I:	**Interior Switches and Controls.** A multiscene programmable controller may be used to comply with dimmer requirements in § 150.0(k) if it provides the functionality of a dimmer according to § 110.9, and complies with all other applicable requirements in § 150.0(k)2.

2016 Low-Rise Residential Mandatory Measures Summary

§ 150.0(k)2J:	**Interior Switches and Controls.** In bathrooms, garages, laundry rooms, and utility rooms, at least one luminaire in each of these spaces must be controlled by a vacancy sensor.
§ 150.0(k)2K:	**Interior Switches and Controls.** Dimmers or vacancy sensors must control all luminaires required to have light sources compliant with Reference Joint Appendix JA8, except luminaires in closets less than 70 square feet and luminaires in hallways.*
§ 150.0(k)2L:	**Interior Switches and Controls.** Undercabinet lighting must be switched separately from other lighting systems.
§ 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 meet the requirement in item § 150.0(k)3Ai (ON and OFF switch) and the requirements in either item § 150.0(k)3Aii (photocell and motion sensor) or item § 150.0(k)3Aiii (photo control and automatic time switch control, astronomical time clock, or EMCS).
§ 150.0(k)3B:	**Residential Outdoor Lighting.** For low-rise multifamily residential buildings, outdoor lighting for private patios, entrances, balconies, and porches; and outdoor lighting for residential parking lots and residential carports with less than eight vehicles per site must comply with either § 150.0(k)3A or with the applicable requirements in §§ 110.9, 130.0, 130.2, 130.4, 140.7 and 141.0.
§ 150.0(k)3C:	**Residential Outdoor Lighting.** For low-rise residential buildings with four or more dwelling units, outdoor lighting not regulated by § 150.0(k)3B or § 150.0(k)3D must comply with the applicable requirements in §§ 110.9, 130.0, 130.2, 130.4, 140.7 and 141.0.
§ 150.0(k)3D:	**Residential Outdoor Lighting.** Outdoor lighting for residential parking lots and residential carports with a total of eight or more vehicles per site must comply with the applicable requirements in §§ 110.9, 130.0, 130.2, 130.4, 140.7, and 141.0.
§ 150.0(k)4:	**Internally illuminated address signs.** Internally illuminated address signs must comply with § 140.8; or must consume no more than 5 watts of power as determined according to § 130.0(c).
§ 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.
§ 150.0(k)6A:	**Interior Common Areas of Low-rise Multi-Family Residential Buildings.** In a low-rise multifamily residential building where the total interior common area in a single building equals 20 percent or less of the floor area, permanently installed lighting for the interior common areas in that building must be high efficacy luminaires and controlled by an occupant sensor.
§ 150.0(k)6B:	**Interior Common Areas of Low-rise Multi-Family Residential Buildings.** In a low-rise multifamily residential building where the total interior common area in a single building equals more than 20 percent of the floor area, permanently installed lighting in that building must: i. Comply with the applicable requirements in §§ 110.9, 130.0, 130.1, 140.6 and 141.0; and ii. Lighting installed in corridors and stairwells must be controlled by occupant sensors that reduce the lighting power in each space by at least 50 percent. The occupant sensors must be capable of turning the light fully on and off from all designed paths of ingress and egress.

Solar Ready Buildings:

§ 110.10(a)1:	**Single Family Residences.** Single family residences located in subdivisions with ten or more single family residences and where the application for a tentative subdivision map for the residences has been deemed complete by the enforcement agency must comply with the requirements of § 110.10(b) through § 110.10(e).
§ 110.10(a)2:	**Low-rise Multi-family Buildings.** Low-rise multi-family buildings must comply with the requirements of § 110.10(b) through § 110.10(d).
§ 110.10(b)1:	**Minimum 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. For low-rise multi-family buildings the solar zone must be located on the roof or overhang of the building, or on the roof or overhang of another structure located within 250 feet of the building, or on covered parking installed with the building project, and have a total area no less than 15 percent of the total roof area of the building excluding any skylight area.*
§ 110.10(b)2:	**Orientation.** All sections of the solar zone located on steep-sloped roofs must be oriented between 110 degrees and 270 degrees 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 distance, measured in the horizontal plane, 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 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 for inverters and metering equipment and a pathway for routing of conduit from the solar zone to the point of interconnection with the electrical service (for single family residences the point of interconnection will be the main service panel); and a pathway for routing of 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) through § 110.10(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: positioned at the opposite (load) end from the input feeder location or main circuit location; and permanently marked as "For Future Solar Electric".

ARCH D (24" x 36")

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BUILDING CONTRACTOR / HOME OWNER TO REVIEW AND VERIFY ALL DIMENSIONS, SPECS, AND CONNECTIONS BEFORE CONSTRUCTION BEGINS.

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ENERGY CALCS BY: GOLDEN SUN DESIGNS MAX RAMIREZ

SUMMIT STRUCTURAL DESIGN

THESE PLANS HAVE BEEN REVIEWED ONLY FOR COMPLIANCE WITH ATTACHED STRUCTURAL CALCULATIONS.

THE ENGINEER'S STAMP ON THIS PLAN IS VALID ONLY WITH A LETTER SIGNED BY THIS ENGINEER FOR EACH UNIQUE BUILD.

A ADDITIONAL DWELLING for: KYLIE BECHHOLD
1190 WARNER STREET, CHICO, CA 95926
ASSESSORS PARCEL NUMBER 003 - 053 - 010

ENERGY CALCS

LIVABLE: 958 SqFt TOTAL

GARAGE: 378 SqFt

COVERED PATIO: 133 SqFt

DATE: 3/3/2019

SCALE: SHOWN

958
1 STORY

SHEET 6

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EMAIL ADDRESS: AlphaMax47@GMail.com

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(530) 592-4407 WORK
EMAIL ADDRESS: Ryland@SummitChico.com

C:\Users\Lynn\Documents\Chief X10 Plans\Scott Bechhold - 1190 Warner Street\Bechhold 2nd Dwelling.layout
OWNER: KYLIE BECHHOLD

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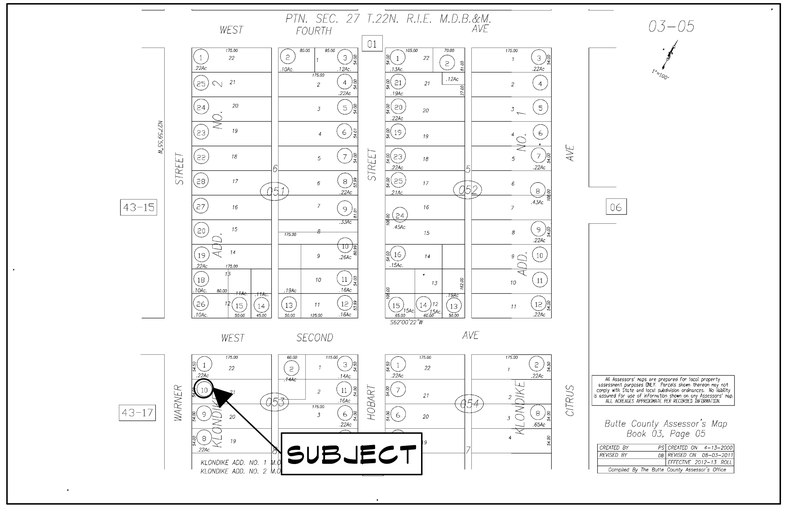

All Assessors' maps are prepared for local property assessment purposes ONLY. Parcels shown thereon may not conform to recorded property descriptions. No warranty is assumed for use of information shown and Assessors may not ALL AGREEMENTS PER RECORDS @ BCRMR/CA.

Butte County Assessor's Map
Book 03, Page 05

CREATED BY	PS	CREATED ON	4-13-2000
REVISED BY	DB	REVISED ON	08-03-2011
		EFFECTIVE	2012-1-1 (KL)

Compiled By The Butte County Assessor's Office

CALGREEN NOTE:
DURING CONSTRUCTION, ONE OR MORE OF THE FOLLOWING MEASURES SHALL BE IMPLEMENTED TO PREVENT FLOODING OF THE ADJACENT PROPERTY, PREVENT EROSION & RETAIN SOIL RUNOFF ON THE SITE:
A.) RETENTION BASINS OF SUFFICENT SIZE SHALL BE UTILIZED TO RETAIN STORM WATER ON THE SITE.
B.) WHERE STORM WATER IS CONVEYED TO A PUBLIC DRAINAGE SYSTEM, COLLECTION POINT, GUTTER OR SIMILAR DISPOSAL METHOD, WATER SHALL BE FILTERED BY USE OF A BARRIER SYSTEM, WATTLE OR OTHER METHOD APPROVED BY THE ENFORCING AGENCY.
C.) COMPLIANCE WITH A LAWFULLY ENACTED STORM WATER MANAGEMENT ORDINANCE.

METHODS TO MANAGE SURFACE WATER INCLUDE: SWALES, WATER COLLECTION AND DISPOSAL SYSTEMS, FRENCH DRAINS, WATER RETENTION GARDENS & OTHER WATER MEASURES WHICH KEEP SURFACE WATER AWAY FROM BUILDINGS AND AID IN GROUNDWATER RECHARGE.

EROSION CONTROL PLAN:
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8.) PLACE SIGN AT WASHOUT. WASHING OF CONCRETE EQUIP. & TOOLS AT ANY OTHER LOCATION THAN A DESIGNATED CONCRETE WASHOUT IS A VIOLATION OF LAW & SUBJECT TO FINE.

OWNER:
KYLE BECHHOLD
4645 MIDWAY
DURHAM, CA 95938
PHONE (530) 624-0167

CONTRACTOR:
SCOTT BECHHOLD

SITE ADDRESS:
1190 WARNER AVENUE
CHICO, CA 95926

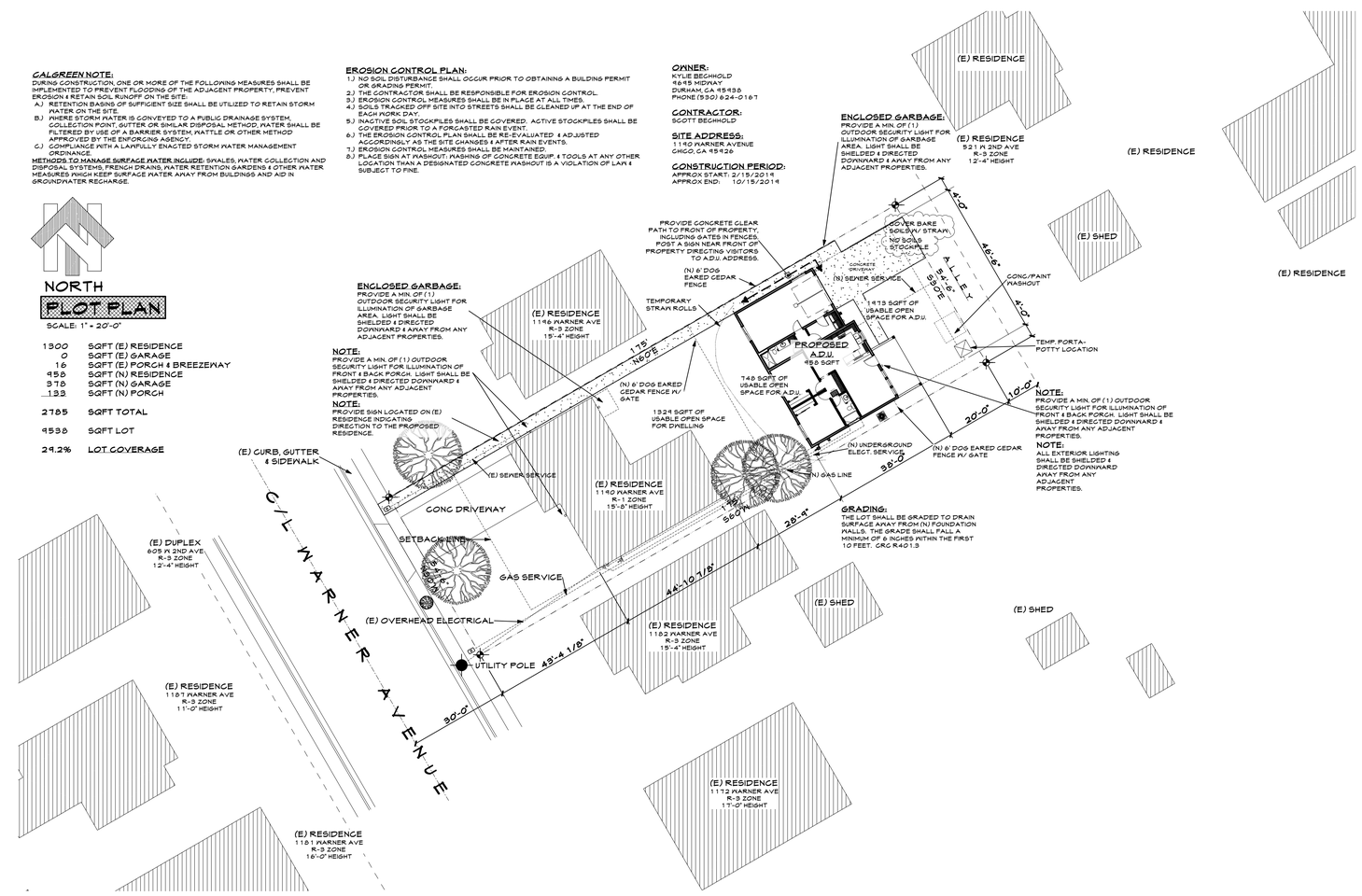
CONSTRUCTION PERIOD:
APPROX START: 2/19/2019
APPROX END: 10/15/2019

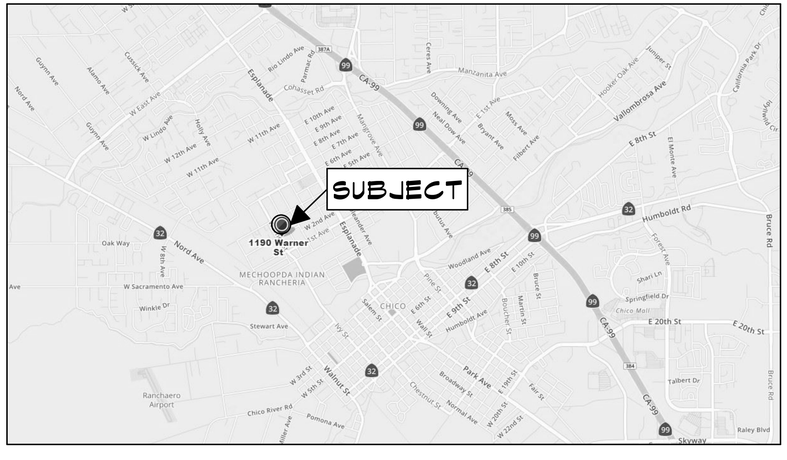
NORTH

PLOT PLAN

SCALE: 1" = 20'-0"

1300	SQFT (E) RESIDENCE
0	SQFT (E) GARAGE
16	SQFT (E) PORCH & BREEZEWAY
958	SQFT (N) RESIDENCE
378	SQFT (N) GARAGE
133	SQFT (N) PORCH
2785	SQFT TOTAL
9538	SQFT LOT
29.2%	LOT COVERAGE





LOCATION MAP

SCALE: NONE

ARCH D (24" x 36")

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LYNNSMITH328ATT.NET

ENERGY CALCS BY:
GOLDEN SUN DESIGNS
MAX RAMIREZ

SUMMIT STRUCTURAL DESIGN

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KYLIE BECHHOLD
1190 WARNER STREET, CHICO, CA 95926
ASSESSORS PARCEL NUMBER 003 - 053 - 010

PLOT PLAN
ASSESSORS MAP
LOCATION MAP

LIVABLE:
958 SqFt TOTAL

GARAGE:
378 SqFt

COVERED PATIO:
133 SqFt

DATE: 3/3/2019

SCALE: SHOWN

958
1 STORY

SHEET
7

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C:\Users\Lynn\Documents\Chief X10 Plans\Scott Bechhold - 1190 Warner Street\Bechhold 2nd Dwellinglayout
OWNER: KYLIE BECHHOLD

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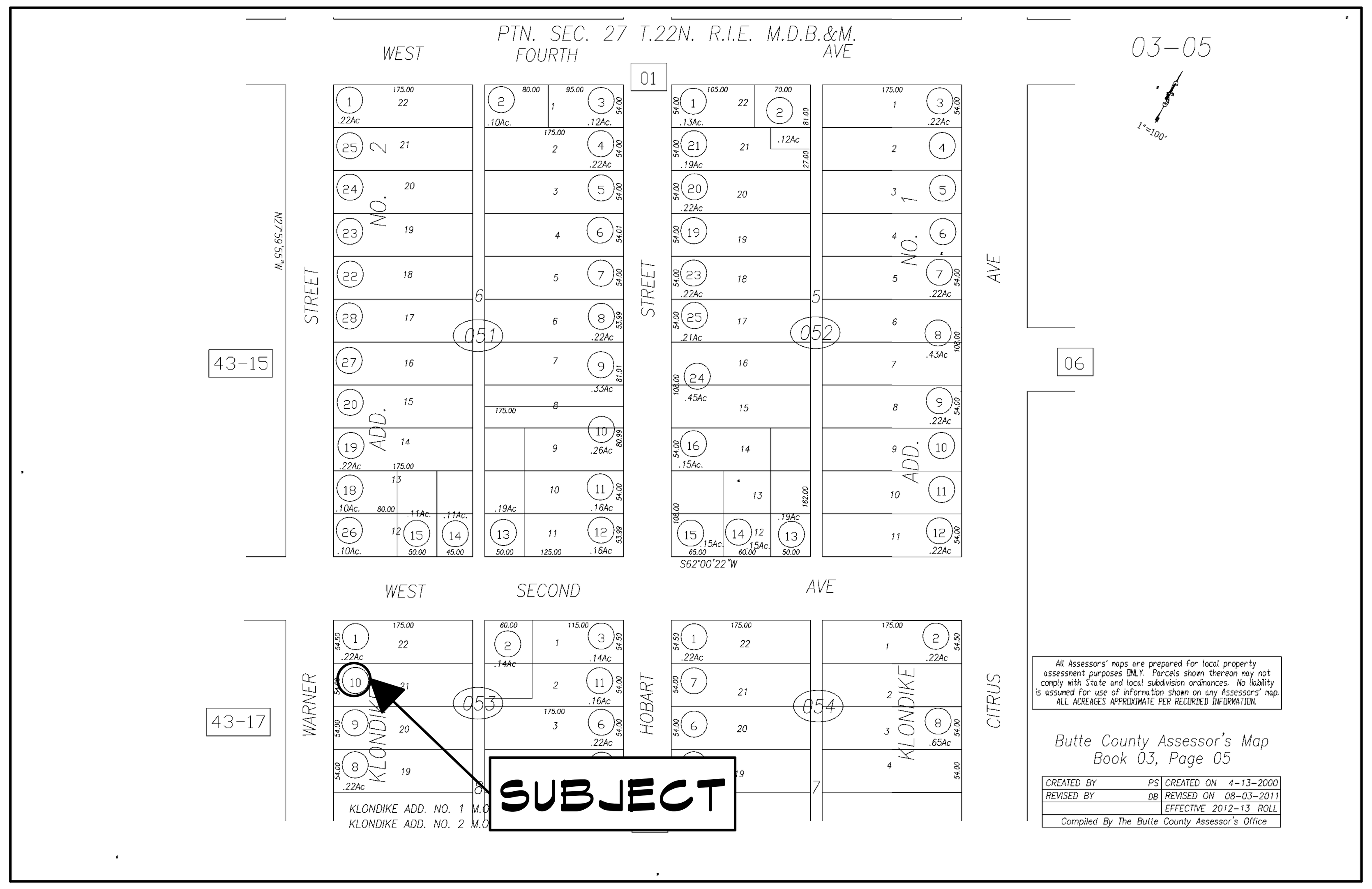
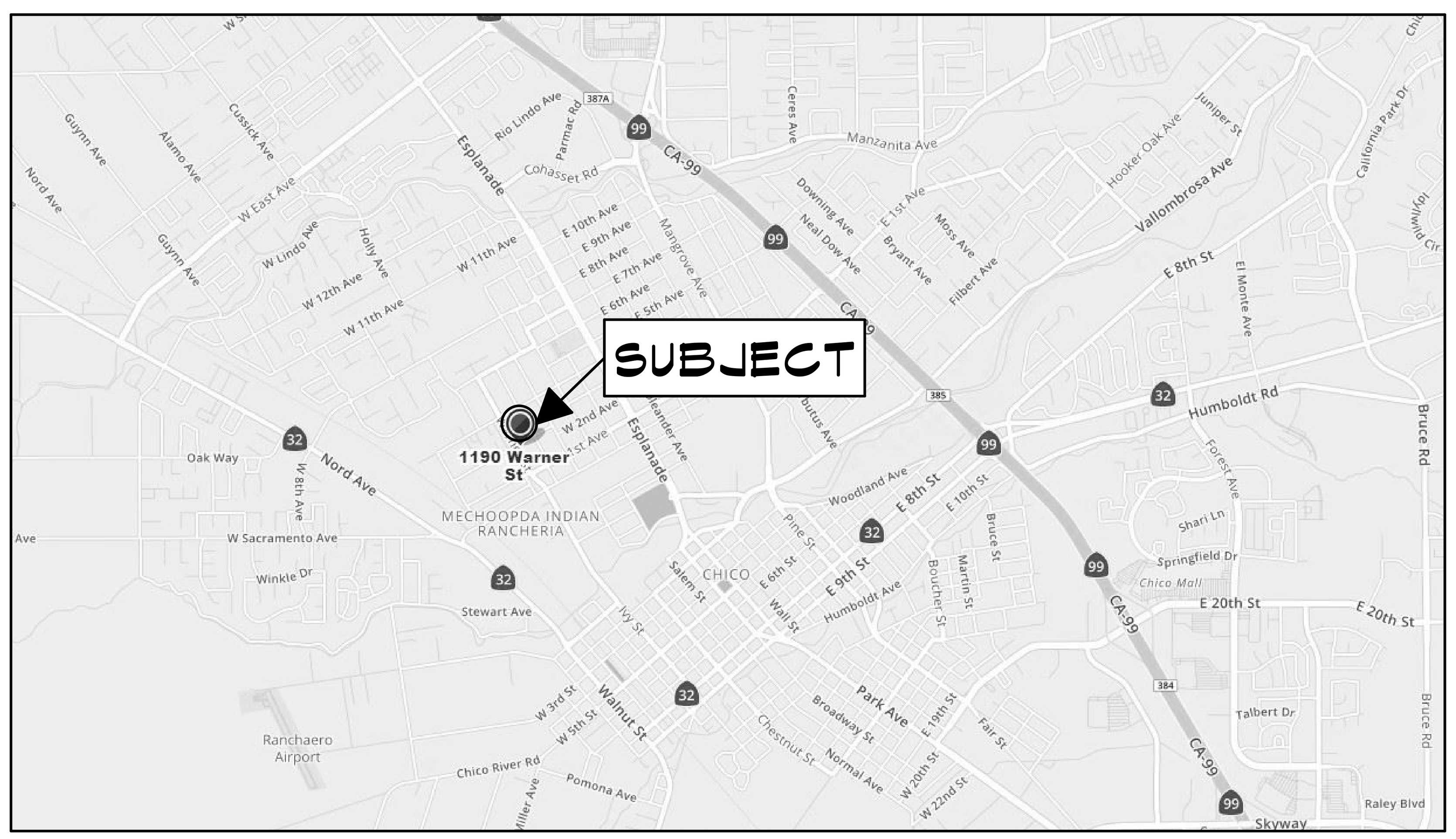
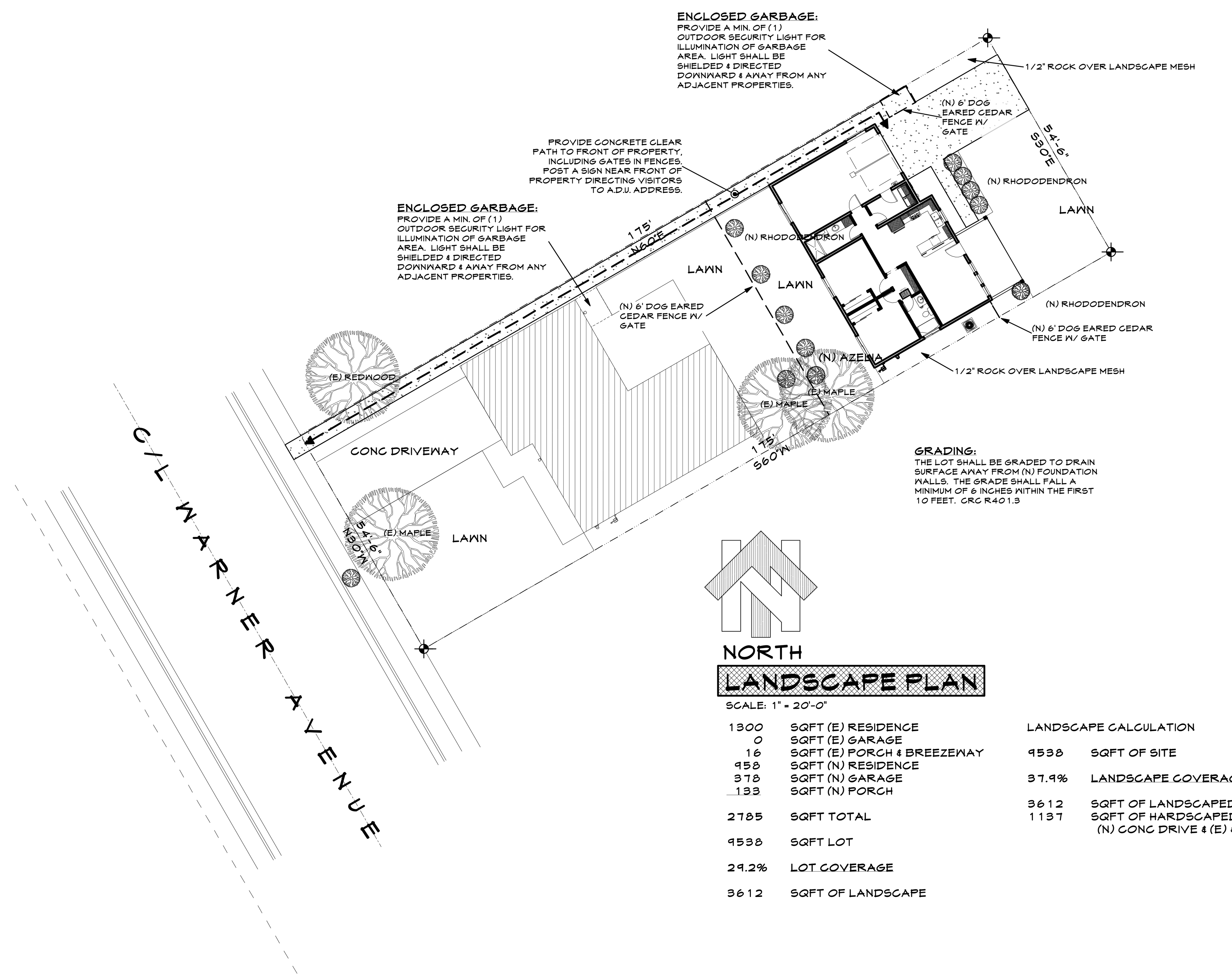




LOCATION MAP

SCALE: NONE



GRADING:
THE LOT SHALL BE GRADED TO DRAIN SURFACE AWAY FROM (N) FOUNDATION WALLS. THE GRADE SHALL FALL A MINIMUM OF 6 INCHES WITHIN THE FIRST 10 FEET. CRC R401.3

LANDSCAPE PLAN

SCALE: 1" = 20'-0"

1300	SQFT (E) RESIDENCE
0	SQFT (E) GARAGE
16	SQFT (E) PORCH & BREEZEWAY
958	SQFT (N) RESIDENCE
378	SQFT (N) GARAGE
133	SQFT (N) PORCH
2785	SQFT TOTAL
9538	SQFT LOT
29.2%	LOT COVERAGE
3612	SQFT OF LANDSCAPE

LANDSCAPE CALCULATION

9538	SQFT OF SITE
37.9%	LANDSCAPE COVERAGE OF SITE
3612	SQFT OF LANDSCAPED AREA
1137	SQFT OF HARDSCAPED AREA (N) CONC DRIVE & (E) & (N) WALKWAYS

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ASSESSORS MAP
LOCATION MAP

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SCALE: SHOWN

958
1 STORY

SHEET 8

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