THIS PROJECT IS WITHIN:

WILDLAND URBAN INTERFACE (MU)

THIS PLAN SET IS AN ADDENDUM TO THE ORIGINAL SUBMITTED 2 BEDROOM MASTER PLAN PERMIT NO: BP=20=01749 SIDE ENTRY

NOTE:

THIS PROJECT IS TO BE CONSTRUCTED IN COMPLIANCE TO FOLLOWING STATE RESPINSIBILITY AREA / WILDLAND URBAN INTERFACE (SRA/WUI) REQUIREMENTS OF 2019 CRC R337.

| BUILDING INFORMATION: | PLAN SELECTION INFORMATION: | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| BUILDING INFORMATION: OCCUPANCY GROUP: R-3 CONSTRUCTION TYPE: V-B STORIES: BUILDING HEIGHT: I6' MAX FLOOR AREA: 960 SF COVERED PORCH: I44 SF FIRE SPRINKLERS: SITE SPECIFIC* FLOOD ZONE: FLOOD ZONE: FLOOD ZONE: FIRM PANEL #: BUILDING SHALL COMPLY WITH THE FOLLOWING CODE: CRC 2019, CEC 2019, CMC 2019, CPC 2019, CFC 2019, CEC 2019, CMC 2019, AND ALL STATE, FEDERAL AND LOCAL ORDINANCES | TITLE 24 ENERGY REQUIREMENTS: 89 I. WINDOWS: U-FACTOR= 0.3 SHGC=0.23 2. INSULATION: WALLS= R-21 FLOOR= SLAB, N/A 5. HERS TESTING REQUIREMENTS: | |
| AS AMENDED BY THE LOCAL JURISDICTION. * FIRE SPRINKLERS ARE REQUIRED IF THE | ATTIC = R-38, RAFTERS = R-19 3. ROOF REQUIREMENTS: DER CALCULATIONS 6. AIR CONDITIONING: HEATING: 8.2% HSPF COOLING: 14 SEER | |
| HOUSE THAT THIS ADU IS ACCESSORY TO, HAS FIRE SPRINKLERS OR WILL REQUIRE FIRE SPRINKLERS IF BEING NEWLY CONSTRUCTED. | NO RADIANT BARRIER II.7 EER VENTILATION= $\frac{1}{150}$ SQ.FT. SPLIT HEAT PUMP | |
| PARCELS CONTAINING FEMA FLOOD HAZARDOUS ZONES CAN NOT USE THIS MASTER PLAN. | *NO SPECIAL INSPECTIONS ON THIS PROJECT | |

| EQUIVALENT LATER | | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------|----------------------|----------------------------------------|------------------|--|
| SHEET INDEX: PAGES: PROJECT DESCRIPTION: StightGradet is COVER SHEET CS NEW CONSTRUCTION OF A 960 SQUARE FOOT 2 EQUIVALENT LATES NOTE SHEETS GNI, GN2 BEDROOM 2 BATH RESIDENCE EQUIVALENT LATES CAL GREEN GN3, GN4 DWNER: SMS= FLOOR PLAN AI OWNER: SMS= ELEVATIONS A2, A2,I OWNER: SMS= ROOF PLAN A3 OWNER: SOI= FOUNDATION A4, A4,I STELECTRICAL STELECTRICAL SHEAR WALL & FRAMING PLAN A5 ADDRESS: SNON LOAD STRUCTURAL DETAILS S2, S3 ADDRESS: MIND: STRUCTURAL DETAILS S2, S3 APN #: SOL: APN #: ALCONABLE = SOL: | | | | DESIGN CRITE | RIA. | |
| COVER SHEET CS NEW CONSTRUCTION OF A 960 SQUARE FOOT 2 BEDROOM 2 BATH RESIDENCE FORCE PROCEDUR CAL GREEN GN3, GN4 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | SHEET INDEX: | PAGES: | PROJECT DESCRIPTION: | SEISMIC: ASCET-16, CHP 12.8 | | |
| NOTE SHEETS GNI, GN2 BEDROOM 2 BATH RESIDENCE Ist CAL GREEN GN3, GN4 Siz Siz <td>VER SHEET</td> <td>5</td> <td></td> <td colspan="3">EQUIVALENT LATERAL FORCE PROCEDURE.</td> | VER SHEET | 5 | | EQUIVALENT LATERAL FORCE PROCEDURE. | | |
| CAL GREEN GN3, GN4 S5= S1= S5= S1= | LE SHEETS | GNI, GN2 | | = | | |
| FLOOR PLAN AI OWNER: SMS= SDS= SDS= SDS= SDS= SDS= SDS= SDS= | GREEN | | | | 0.693 0.29 | |
| ELEVATIONS A2, A2.I SDI= IL ROOF PLAN A3 IL I | | | | SMS= SMI= | 0.864 NULL | |
| ROOF PLAN A3 ROI FOUNDATION A4, A4.I SITE CLASS SITE CLASS SITE CLASS SITE CLASS SEISMIC DESIGN CATEGORY SHEAR WALL & FRAMING PLAN A5 SA SITE CLASS SEISMIC DESIGN CATEGORY SECTIONS A6, A6.I A7 ADDRESS: SNOW LOAD STRUCTURAL NOTES SI MAIN WIND FORCE RESISTING SYSTEM HEIGHTS METHOD, CHP. 26 4 21 MAIN WIND FORCE RESISTING SYSTEM HEIGHTS METHOD, CHP. 26 4 21 STRUCTURAL DETAILS S2, S3 MIND SPEED= EXPOSURE= EXPOSURE= MIND SPEED= International context APN #: ALLOWABLE = SolL: | | ×2, A2.I | OMNER: | SDI= | 0.576 NULL | |
| FOUNDATION A4, A4,I Site cLASS SHEAR WALL & FRAMING PLAN A5 SEISMIC DESIGN CATEGORY SECTIONS A6, A6.I ADDRESS: SNOW LOAD ELECTRICAL A7 MIND: MIND: STRUCTURAL NOTES S1 MAIN WIND FORCE RESISTING SYSTEM HEIGHTS METHOD, // CHP. 26 & 21 MAIN WIND FORCE RESISTING SYSTEM HEIGHTS METHOD, // CHP. 26 & 21 STRUCTURAL DETAILS S2, S3 MIND SPEED=1 EXPOSURE= EXPOSURE= Image: Solution of the system of the s | OF PLAN | 43 | | RO= | 6 .3 6.5 | |
| SHEAR WALL & FRAMING PLAN A5 CATEGORY SECTIONS A6, A6.I ADDRESS: SNOW LOAD ELECTRICAL A7 WIND: WIND: STRUCTURAL NOTES SI MAIN WIND FORCE RESISTING SYSTEM HEIGHTS METHOD, CHP. 26 & 27 MAIN WIND SPEED= EXPOSURE= STRUCTURAL DETAILS S2, S3 WIND SPEED= EXPOSURE= WIND SPEED= EXPOSURE= SOIL: WIND SPEED= SOIL: ALLOWABLE = | JNDATION | ×4, A4.I | | | D | |
| SECTIONS A6, A6.1 ADDRESS: WIND: ELECTRICAL A7 WIND: MAIN WIND FORCE STRUCTURAL NOTES SI MAIN WIND FORCE RESISTING SYSTEM STRUCTURAL DETAILS S2, S3 WIND SPEED= EXPOSURE= ENCLOSURE= SOIL: SOIL: ALLOWABLE = | AR WALL & FRAMING PLAN | 45 | | | N D | |
| ELECTRICAL A7 WIND: STRUCTURAL NOTES SI MAIN WIND FORCE RESISTING SYSTEM HEIGHTS METHOD, / CHP. 26 & 27 STRUCTURAL DETAILS S2, S3 WIND SPEED= EXPOSURE= EXCLOSURE= Image: Comparison of the second | TIONS | 46, A6.I | ANNDEGG | SNOW LOAD | 37 PSF | |
| STRUCTURAL NOTES SI RESISTING SYSTEM STRUCTURAL DETAILS S2, S3 CHP. 26 & 27 WIND SPEED= EXPOSURE= ENCLOSURE= SOIL: ALLOWABLE = ALLOWABLE = | | ×7 | ADDRLDD: | WIND: | | |
| STRUCTURAL DETAILS 02,00 CHP. 26 \$ 27 WIND SPEED= EXPOSURE= ENCLOSURE= SOIL: APN #: ALLOWABLE = | RUCTURAL NOTES | | | RESISTING SYS | TEM, ALL | |
| EXPOSURE = EXPOSURE = ENCLOSURE = SOIL: APN #: ALLOWABLE = | UCTURAL DETAILS | 52, 53 | | CHP. 26 \$ 27 | | |
| ENCLOSURE= SOIL: ALLOWABLE = | | | | | 95 MPH C | |
| APN #: ALLOWABLE = | | | 1 | | ENCLOSED | |
| ALLOWABLE = | | | | SOIL: | | |
| | | | | | 1500 PSF | |
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| | | | | | | |

| General | Notes |
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| | |

JACKSON AND SANDS ENGINEERING HAS PROVIDED THESE PLANS SOLELY FOR THE USE FOR THE PROJECT SPECIFIED ON THESE PLANS & DOES NOT REPRESENT THAT THESE PLANS ARE SUITABLE FOR ANY OTHER SITE WEATHER MODIFIED OR NOT.





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| No. | Revision/Issue | Date |

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| | FASTENING SCHEDULE | FASTENINE | |
|-------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------|---------------------------------|
| | JOIST TO SILL OR GIRDER | 3-80 COMMON (2.5" X | 0 3 ") |
| 2. | BRIDGING TO JOIST | 2-8d COMMON (2.5" X | |
| 3. | I"X6" SUBFLOOR OR LESS TO EA. JOIST | 2-8d COMMON (2.5" X | |
| 4. | WIDER THAN I"X6" SUBFLOOR TO EA. JOIST | 3-8d COMMON (2.5" X | |
| 5. | 2" SUBFLOOR TO JOIST OR GIRDER | 2-16d COMMON (2.5" X | |
| 6. | SOLE PLATE TO JOIST OR BLOCKING | 16d (3.5" X 0.135") @ 16 | |
| | SOLE PLATE TO JOIST OR BLOCKING @ BRACED | | |
| | WALL PANEL | 3" - 16d (3.5" × 0.135") | @ 6" O.C. |
| ┦. | TOP PLATE TO STUD | 2-16d COMMON (2.5" X | 0. 62") |
| 8. | STUD TO SOLE PLATE | 4-8d COMMON (2.5" X | 0. 3 ") |
| | | 2-16d COMMON (3.5" X | |
| | | 16d (3.5" X 0.135") @ 24 | |
| 10. | DOUBLE TOP PLATES | 16d (3.5" × 0.135") @ 16 | |
| | DOUBLE TOP PLATES | 8-16d COMMON (2.5" X | • |
| . | BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE | 3-8d COMMON (2.5" X | |
| 12. | RIM JOIST TO TOP PLATE | 8d (2.5" × 0.131") @6" (| |
| 13. | TOP PLATES, LAPS AND INTERSECTIONS | 2-16d COMMON (2.5" X | |
| <u> 4.</u> 5. | CONTINUOUS HEADER, TWO PIECES CEILING JOISTS TO PLATE | 16d COMMON (3.5" X O | |
| <u>15.</u> 16. | CEILING JOISTS TO PLATE CONTINUOUS HEADER TO STUD | 3-8d COMMON (2.5" X | |
| | | 4-8d COMMON (2.5" X 3-16d COMMON (3.5" X | |
| 11. | CEILING JOISTS, LAPS OVER PARTITIONS SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1) | MINIMUM, TABLE 2308. | |
| 18. | CEILING JOISTS TO PARALLEL RAFTERS SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1) | 3-16d COMMON (3.5" X MINIMUM, TABLE 2308. | , |
| 19. | RAFTER TO PLATE SEE SECTION 2308.10.1, TABLE 2308.10.1) | 3-8d COMMON (2.5" X | |
| 20. | I" DIAGONAL BRACE TO EA. STUD AND PLATE | 2-8d COMMON (2.5" X | 0. 3 ") |
| 21. | I"X8" SHEATHING TO EA. BEARING | 3-8d COMMON (2.5" X | |
| 22. | WIDER THAN I"X8" SHEATHING TO EA. BEARING | 3-8d COMMON (2.5" X | 0. 3 ") |
| 23. | BUILT-UP CORNER STUDS | 16d COMMON (3.5" X O | . 62") |
| 24. | BUILT-UP GIRDER AND BEAMS | 20d COMMON (4" X 0.1 | 192") 32" (|
| | | 2 - 20d COMMON (4" > | X 0.192") |
| 25. | 2" PLANKS | 16d COMMON (3.5" X O | . 62") |
| 26. | COLLAR TIE TO RAFTER | 3-100 COMMON (3" X C | D. 48") |
| 27. | JACK RAFTER TO HIP | 3-100 COMMON (3" X C | J. 48") |
| | | 2-16d COMMON (3.5" X | 0. 62") |
| 28. | ROOF RAFTER TO 2 BY RIDGE BEAM | 2-16d COMMON (3.5" X | 0. 62") |
| | | 2-16d COMMON (3.5" X | |
| 29. | JOIST TO BAND JOIST | 3-16d COMMON (3.5" X | |
| 30. 31 | | 3-16d COMMON (2.5" X | , |
| 31. | WOOD STRUCTURAL PANEL ^B S AND PARTICLEBOARD SUBFLOOR, ROOF AND | I/2" AND LESS 6d I9/32" TO 3/4" 8d | 1 |
| | WALL SHEATHING (TO FRAMING) | 19/52" 10 5/4" 8a 7/8" TO I" 8a | -UR bay |
| | | | ^c or 8d |
| | | | |
| | | 3/4" AND LESS 6d | e |
| | SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING) | 5/4" AND LESS 60 7/8" TO I" 80 | |
| | | | dor 8de |
| 32. | PANEL SIDING (TO FRAMING) | 1/2" AND LESS 6d | - |
| | | 5/8" AND LESS 8d | • |
| 33. | FIVERBOARD SHEATHING | 60 | II GA ROO COMMON 16 GA ST |
| | | | |
| | | 80 | II GA ROO COMMON |
| | | No. | 16 GA ST |
| | | | |

a. Common or box nails are permitted to be used except where otherwise noted.

b. Nails spaced at 6 inches on center at edges, 12 inches at intermediate supports except 6 inches a are 48 inches or more. For nailing of wood structural panel and particle board diaphragms and shea 2305. Nails for wall sheating are permitted to be commom, box or casing.

c. Common or deformed shank (6d - $2" \times 0.113"$;8d - $21/2" \times 0.131"$; 10d - $3" \times 0.148"$).

d. Common (6d - 2" x O.113";8d - 2 1/2" x O.13";10d - 3" x O.148").

e. Deformed shank (6d - $2" \times 0.113"$; 8d - $2 \frac{1}{2} \times 0.131"$; 10d - $3" \times 0.148"$).

f. Corrosion resistant siding (6d - 1 7/8" x 0.106"; 8d - 2 3/8" x 0.128") or casing (6d - 2" x 0.099"; 8 q. Fasterners spaced 3 inches on center at exterior edges and 6 inches on center at intermediate s structural sheathing. Spacing shall be 6 inches on center on the edges and 12 inches oncenter at inte nonstructural applications.

h. Corrosion resistant roofing nails with 7/16 inch dia. head and 1 1/2" inch length for 1/2" length for 1/2 inch lenth for 25/32 inch sheathing

i. Corrosion resistant staples with nominal 7/16" crown and 1 1/8" length for 1/2" inch sheathing and 1 3, inch sheathing.

j. Casinq (| 1/2" x 0.080" or finish (| 1/2" x 0.072") nails spaced 6" on panel edges, |2" at intermediate K. Panel supports at 24". Casing or finish nails spaced 6" on panel edges, 12" at intermediate suppor I. For roof sheathing applications, 8d nails (2 1/2" × 0.113") are the minimum required for wod structural m. Staples shall have a minimum crown width of 7/16 inch.

n. For roof sheathing applications, fasteners spaced 4 inches on center at edges, 8 inches at interme subfloor and wall sheathing and 3 inches on center at edges, 6 inches at inermediate supports for roc o. Fastners spaced 4inches on center at edges, 8 inches at intermediate supports for subfloor and w inches on center at edges, 6 inches at intermediate supports for roof sheathing.

p. Fasteners spaced 4 inches on center at edges, 8 inches at intermediate supports.

EXTERIOR BUILDING FINISH:

| | I. EXTERIOR WALL COVERINGS SHALL BE NONCOMBUSTIBLE OR IGNITION RESISTANT, HEAVY TIMBER, LOG WALL OR FIRE RESISTIVE | I. AL 2. FI> |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------|
| | CONSTRUCTION (CRC R337.7) | 2. FIZ |
| TOENAIL TOENAIL EA. END | 2. EXTERIOR WALL COVERINGS SHALL EXTEND FROM THE FOUNDATION | EX |
| FACE NAIL | TO THE ROOF AND TERMINATE AT 2 INCH NOMINAL SOLID BLOCKING | SC |
| FACE NAIL | BETWEEN RAFTERS AND OVERHANGS. (CRC R337.7.3.2) 3. ATTIC GABLE AND EAVES ABOVE 12' AND UNDER FLOOR | SH 20 |
| BLIND AND FACENAIL | VENTILATION SHALL BE PROVIDED WITH FULLY COVERED METAL | 3. AL |
| TYPICAL FACE NAIL | WIRE MESH, VENTS, OR OTHER MATERIALS THAT HAVE A MINIMUM $rac{1}{16}$ " | GA |
| | AND MAXIMUM $\frac{1}{8}$ " OPENINGS, NON-COMBUSTIBLE AND CORROSION | (\bigvee) |
| BRACED WALL PANELS | RESISTANT. ALL OTHER EAVE VENTS SHALL BE LISTED/ APPROVED TO RESIST THE INTRUSION OF FLAME AND BURNING EMBERS. | 4. OU CC |
| END NAIL | (CRC337.6.2) | FC |
| TOENAIL | | 4.1. |
| END NAIL FACE NAIL | | 4.2. 4.3. |
| TYP. FACE NAIL | DWELLING WITH ATTACHED GARAGE: | |
| LAP SPLICE | ALL NEW RESIDENTIAL CONSTRUCTION WITH ATTACHED PRIVATE | 4.4. |
| TOENAIL | GARAGES SHALL HAVE THE FOLLOWING FOR ELECTRICAL VEHICLE (EV) CHARGING STATIONS (CGBSC 4.106.4) : | |
| TOENAIL | I. INSTALL A MIM I" CONDUIT CAPABLE OF SUPPLY A 208/240V | |
| FACE NAIL | BRANCH CIRCUIT TO A SUITABLE BOX LOCATION FOR EV CHARGING. | 5. LUI |
| 6" O.C. ALONG EDGE | THE OTHER END SHALL TERMINATE TO THE MAIN SERVICE OR SUBPANEL. | RE |
| TOENAIL TOENAIL | 2. THE MAIN PANEL AND OR SUBPANEL SHALL BE OF SUFFICIENT SIZE | 5.I. 5.2. |
| FACE NAIL | TO INSTALL A 40 AMP DEDICATED BRANCH CIRCUIT. THE DEDICATED OVER-CURRENT PROTECTION SPACE SHALL BE | 5.3. |
| | LABELED "EV Capable" | |
| FACE NAIL | | ALL R |
| | FLOOR PLAN NOTES: | 5.4. |
| TOENAIL | I. BUILDING TO COMPLY WITH WILDLAND/ URBAN INTERFACE | 5.5. |
| | CONSTRUCTION. | 5.6. |
| | 2. AUTOMATIC RESIDENTIAL FIRE SPRINKLERS ARE REQUIRED THROUGHOUT THE RESIDENCE. SPRINKLER DESIGN BY OTHERS. | 6. OU 7. BA |
| | 3. EXTERIOR WALLS TO BE 2X6 DF NO. 2 STUDS AT 16" O.C. WITH R-19 | PE |
| | INSULATION. SIDING/ SHEAR AS SHOWN ON. 4. INTERIOR WALLS TO BE 2X4 DF NO.2 STUDS AT 16" O.C. | , VE |
| . | 5. TYPICAL WALL HEIGHT IS 9'. | 7.1. |
| | 6. BALLOON FRAME WALLS UNDER VAULTED TRUSS | 7.2. |
| | | 7.3. |
| | ELECTRICAL NOTES: | 1.0. |
| | | |
| | I. THE PANEL BOARD(S) SHALL BE PROVIDED WITH A CIRCUIT DIRECTORY OR CIRCUIT IDENTIFICATION. 2019 CEC ART. 408.3(F). | 8. CA |
| | EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY | RE |
| | IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE. THE IDENTIFICATION SHALL INCLUDE AN APPROVED DEGREE | 8.1. |
| | OF DETAIL THAT ALLOWS EACH CIRCUIT TO BE DISTINGUISHED | 8.1.1 |
| | FROM ALL OTHERS. SPARE POSITIONS THAT CONTAIN UNUSED | 8.1.2 |
| | OVER CURRENT 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 | 8.1.3 |
| | THE PANEL DOOR IN THE CASE OF A PANEL BOARD AND AT EACH SWITCH OR CIRCUIT BREAKER IN A SWITCHBOARD OR | |
| | SWITCHGEAR. NO CIRCUIT SHALL BE DESCRIBED IN A MANNER | 8.1.4 |
| | THAT DEPENDS ON TRANSIENT CONDITIONS OF OCCUPANCY. 2. LISTED INSTALLATION INSTRUCTION OR MANUALS SHALL BE ON | |
| | SITE AND AVAILABLE FOR PLUMBING, MECHANICAL, ELECTRICAL | |
| | EQUIPMENT OR OTHER INSTALLATIONS DURING FIELD INSPECTION OF SPECIFIC APPLIANCES OR FEATURES. | |
| | 3. PHOTOVOLTAIC GENERATING SYSTEMS IS REQUIRED BY | |
| ING NAIL h | CALIFORNIA ENERGY CODE SECTION 150.1(C)14. INSTALLATION OF | FOR |
| $AL(2" \times O. 3")$ | SOLAR PANELS REQUIRED PRIOR CERTIFICATE OF OCCUPANCY CAN BE ISSUED FOR THIS ADU. A SEPARATE PERMIT IS REQUIRED. | ELE |
| PLE i | 4. AT LEAST ONE 120-VOLT, 20-AMP BRANCH CIRCUIT SHALL BE | |
| | PROVIDED TO SUPPLY A BATHROOM OUTLET(S). SUCH CIRCUIT | CIR |
| AIL (2 1/2" × 0.131") PLE 1 | SHALL HAVE NO OTHER OUTLETS. (EXCEPTION-WHERE THE CIRCUIT SUPPLIES A SINGLE BATHROOM, OUTLETS FOR OTHER EQUIPMENT | i. |
| | WITHIN THE SAME BATHROOM SHALL BE PERMITTED TO BE | |
| | SUPPLIED.) CEC 210.11(C(1)) AND 210.52 5. FIXTURES, LAMP HOLDER AND RECEPTACLES OUTLETS SHALL BE | |
| | SECURELY SUPPORTED. A FIXTURE THAT WEIGHTS MORE THAN 6 | ii. |
| | POUNDS OR EXCEEDS 16 INCHES IN ANY DIMENSION SHALL NOT BE | |
| at supports where spans ar walls, refer to Section | SUPPORTED BY THE SCREW SHELL OF A LAMP HOLDER. 2019 CEC Art. 410.30(a) OUTLET BOXES SHALL NOT BE USED AS THE SOLE | |
| | SUPPORT FOR CEILING (PADDLE) FANS. 2019 CEC Art. | |
| | 3 4.27(A) (D) | |
| | 6. TWO SMALL APPLIANCE 20-AMP BRANCH CIRCUITS ARE REQUIRED FOR THE KITCHEN AND ARE LIMITED TO SUPPLYING WALL AND | |
| 8d - 2 /2" x 3") nail. | COUNTER SPACE OUTLETS FOR THE KITCHEN, PANTRY, NOOK, | |
| supports, when used as | DINING ROOM, AND SIMILAR AREAS. NOTE: THE CIRCUITS CANNOT SERVE OUTSIDE PLUGS, RANGE HOODS, DISPOSALS, DISHWASHER | |
| ermediate supports for | OR MICROWAVES - ONLY THE REQUIRED COUNTERTOP/WALL | |
| " inch sheathing and 1 3/4 | OUTLETS INCLUDING THE REFRIGERATOR. CEC 210.11(C(1)) \ddagger | |
| /4" inch length for 25/32 | 210.52(B) 7. GROUNDED AND BONDING OF ELECTRICAL INSTALLATIONS SHALL | |
| 2 | COMPLY WITH 2019 CEC ART. 250 | |
| e supports. rte | 8. PACIFIC GAS AND ELECTRIC (PG&E) COMPANY APPROVAL IS REQUIRED FOR ELECTRICAL METER. LOCATION PRIOR TO | |
| rts. I panels. | INSTALLATION. PANEL LOCATION SUBJECT TO SITE SPECIFIC | BUILDI |
| ' | CONDITIONS AND SERVING UTILITY APPROVAL WHERE THIS PLAN IS USED. | DESIG |
| ediate supports for of sheathing. | 9. AFTER BUILDING PERMIT HAS BEEN ISSUED THE OWNER AND/OR | 2019 (|
| vall sheathing and 3 | CONTRACTOR SHALL APPLY FOR ELECTRICAL AND UTILITY GAS | |

XTURES, LAMP HOLDER AND RECEPTACLES OUTLETS SHALL BE ECURELY SUPPORTED. A FIXTURE THAT WEIGHS MORE THAN 6 LBS. OR CEEDS 16 INCHES IN ANY DIMENSION SHALL NOT BE SUPPORTED BY THE REW SHELL OF A LAMP HOLDER. CEC ART. 410.30(a). OUTLET BOXES IALL NOT BE USED AS THE SOLE SUPPORT FOR CEILING (PADDLE) FAN. 219 CEC ART. 314-27(A)\$(D) L LIGHTING IN (BATHROOM, UTILITY ROOM LAUNDRY ROOM AND

ARAGES) TO BE MANUAL ON, AUTOMATIC OFF, OCCUPANT SENSOR. ACANCY SENSOR) JTDOOR LIGHTING ATTACHED TO THE BUILDING TO BE HIGH EFFICACY, ONTROLLED BY A MANUAL ON AND OFF SWITCH AND ONE OF THE DLLOWING AUTOMATIC CONTROLS

PHOTO CONTROL AND MOTION SENSOR.

- ECESSED LIGHTS
- CEILINGS

- ENTILATION.

SPECS.

EXEMPT

SONE.

SERVICE REQUESTS TO PACIFIC GAS AND ELECTRIC COMPANY.

ING SHALL COMPLY WITH THE FOLLOWING CODE: SN CODES 2019 CBC, 2019 CEC, 2019 CMC, 2019 CPC, CRC, 2019 CENC, 2019 CALGREEN, 2019 CFC

LIGHTING NOTES:

L LIGHTING TO BE HIGH EFFICACY.

PHOTO CONTROL AND AUTOMATIC TIME SWITCH CONTROOL. ASTRONOMICAL TIME CLOCK CONTROL THAT AUTOMATICALLY TURNS THE OUTDOOR LIGHT OFF DURING DAYLIGHT HOURS.

EMCS THAT PROVIDES THE FUNCTIONALITY OF AN ASTRONOMICAL TIME CLOCK, DOES NOT HAVE AN OVERRIDE OR BYPASS SWITCH THAT ALLOWS THE LUMINARIES TO BE ALWAYS ON, AND IS PROGRAMMED TO AUTOMATICALLY TURN THE OUTDOOR LIGHTING OFF

DURING DAYLIGHT HOURS. MINARIES RECESSED IN INSULATED CEILINGS MUST MEET THREE EQUIREMENTS (CALIFORNIA ENERGY CODE 150.0(K)|C):

THEY MUST BE RATED FOR DIRECT INSULATION CONTACT (IC) THEY MUST BE CERTIFIED AS AIRTIGHT (AT) CONSTRUCTION. THEY MUST HAVE A SEALED GASKET OR CAULKING BETWEEN THE HOUSING AND CEILING TO PREVENT FLOW OF HEATED OR COOLED AIR OUT OF LIVING AREAS AND INTO THE CEILING CAVITY.

SCREW BASES ARE NOT ALLOWED FOR LUMINARIES RECESSED IN

THEY SHALL COMPLY WITH JA8-2016-E COMPLIANT LIGHT SOURCE. ALL JA8 LUMINARIES REQUIRE DIMMERS OR VACANCY SENSORS. JTDOOR LIGHTING SHALL BE SUITABLE FOR WET LOCATIONS. ATHROOM FAN SHALL BE MIN VENTILATION RATE OF 50 CUBIC FEET ER MIN, FOR INTERMITTENT OR 25 CUBIC FEET PER MIN FOR CONTINUOUS

FAN SHALL BE 3 SONE OR LESS AND INSTALLED PER MANUFACTURES

MIN 4" DUCT SHALL VENT TO OUTSIDE AND SHALL BE AIR TIGHT WITH CALKING AND GASKET.

FANS IN BATHROOMS CONTAINING TUB OR SHOWER MUST BE CONTROLLED BY A HUMIDISTAT AND BE ENERGY STAR RATED. IF FAN PROVIDES CONTINUOUS VENTILATION BY THE ENERGY CODE IT IS

ALIFORNIA ENERGY COMMISSION STANDARDS SECTION 150(K)

EQUIREMENTS FOR INDOOR AIR QUALITY VENTILATION.

BATHROOM EXHAUST FAN TO BE USED TO PROVIDE THE WHOLE BUILDING VENTILATION FAN AND PROVIDE THE FOLLOWING:

THE BATHROOM EXHAUST FAN MUST HAVE A MINIMUM CFC RATING OF 75-CFM.

2. THE BATHROOM EXHAUST FAN IS RATED AT A MAXIMUM OF LO

1.3. THE CONTROL SWITCH MUST BE LABELED AS THE WHOLE-BUILDING VENTILATION AND FAN SHOULD OPERATE WHENEVER THE HOME IS OCCUPIED.

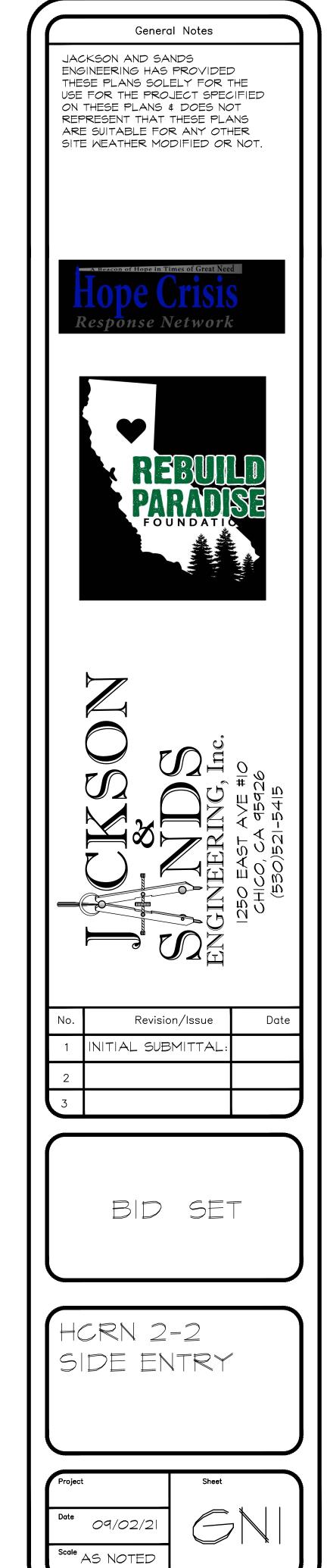
.4. BATHROOM FAN SHALL BE MIN VENTILATION RATE OF 50 CUBIC FEET PER MIN. FOR INTERMITTENT OR 25 CUBIC FEET PER MIN FOR CONTINUOUS VENTILATION.

ENERGY NOTES:

DR NEW WATER HEATER PROVIDE 125-VOLT, 20 AMP ECTRICAL RECEPTABLE CONECTED TO ELECTRIC PANEL 120/240-VOLT 3 CONNECTOR, 10 AWG COPPER BRANCH RCUIT WITHIN 3 FT FROM WATER HEATER.

BOTH ENDS OF THE UNUSED CONDUCTER SHALL BE LABELED WITH THE WORD "SPARE" AND BE ELECTRICALLY ISOLATED.

A RESERVED SINGLE POLE CIRCUIT BREAKER SPACE IN THE ELECTRICAL PANEL ADJACENT TO THE CIRCUIT BREAKER FOR THE BRANCH IN A ABOVE AND LABELED WITH WORD "FUTURE 240V USE" CENC SECTION 150.0.(n)



- <u>GENERAL</u> I. Provide each bedroom, basement, and habitable attics with a minimum of one exterior window with a 44^A maximum clear opening height, 5.7 sq. ft. minimum clear openable area (minimum 5.0 sq. ft. at grade floor openings), 24^A minimum clear openable height and 20^A minimum clear width, or an openable exterior exit door. (CRC R310.2.1 and CRC R310.2.2) Window wells, ladders, and steps shall comply with CRC R310.2.3. Bars, grilles, covers, ands screens shall be releasable or removable from the inside without the use of a key, tool, special knowledge, or force greater than 151bs to oper-ate the emergency escape and rescue openings. (CRC R310.4)
- 2. Each bathroom containing a bathtub, shower or tub/shower combination shall be me-chanically ventilated with Energy Star approved equipment (minimum 50cfm) with an integral humidistat installed. (CRC R303.3.1)
- 3. Provide attic cross ventilation: 1/150 of attic area or 1/300 with at least 40% but more than 50% of vents are 3 ft. above eave and balance is at eave. As an alternative in Climate Zone 16 (Truckee region), the net area may be reduced to 1/300 when a Class I or II vapor barrier is installed on the warm-in-winter side of the ceiling. Baffles are required at vents for insulation. Provide minimum of |A| inch of air space between insu-lation and roof sheathing. (CRC R806)
- 4. Enclosed rafter spaces shall have 1-inch clear cross ventilation. (Properly sized rafters for insulation) (CRC R806.3)
- 5. Under floor cross ventilation: minimum 1.0 sq. ft. for each 150 sq. ft. of under floor area. When a class I vapor retarder is installed on the ground surface the minimum area of ventilation may be limited to lsq.ft for each 1,500 square feet of under-floor space. One ventilation opening shall be within three (3) feet of each corner of the building (CRC R408.1). Unvented crawl spaces shall comply with CRC R408.3.
- 6. The following areas shall have safety glazing: (CRC R308.4) . Sliding/swinging glass doors
- 6.1. Glazing in walls and enclosures facing hot tubs, spas, whirlpools, saunas, steam rooms, bathtubs, showers and swimming pools where the glazing is less than 60 inches above the standing surface within the compartment and within 60 inches horizontally of the water 's edge (CRC R308.4.5)
- 6.2. Glazing within a 24" arc of a door that is less than 60 inches above the floor. Glazing installed perpendicular to a door in a closed position and within 24 inches of the door only requires safety glazing if it is on the hinge side of an inswing door. (CRC R308.4.2).
- 6.3. Glazing where the exposed area is greater than 9sq.ft, bottom is less than 18 in. and at least 36 in. above the floor, and adjacent to a walking surface.
- 6.4. Within 60in. of the bottom tread of a stairway and less than 36in. above the landing.
- 6.5. Glazing in guards and railings.
- 6.6. Glazing adjacent to stairways, landings, and ramps within 36in. horizontally of the walking surface less than 36in. above the walking surface
- 7. Provide landings and a porch light at all exterior doors. Landings are to be minimum 3 ft deep x width of door. Landings at required eqress doors may step down a maximum of 7.75 inches when the door does not swing over the landing and 1.5 inches when door swings onto the landing. Other than required exterior exit doors may have a threshold of 7.75 inches maximum; a landing is not required if a stair with two or fewer risers is located on the exterior side and the door does not swing over the stairway. (CRC R311.3-R311.3.2)

INGRESS/EGRESS WINDOWS IN BEDROOMS AND SLEEPING AREAS R310.2.1 MINIMUM OPENING AREA.

Emergency and escape rescue openings shall have a net clear opening of not less than 5.7 square feet (0.530 m2). The net clear opening dimensions required by this section shall be obtained by the normal operation of the emergency escape and rescue opening from the inside. The net clear height opening shall be not less than 24 inches (610 mm) and the net clear width shall be not less than 20 inches (508 mm). exception: grade floor or below grade openings shall have a net clear opening of not less than 5 square feet (0.465 m2).

FOUNDATIONS & CONCRETE SLABS Concrete Strength(s): 2,500 PSI Rebar Grades: 40 KSI U.O.N.

- 1. Slope drainage 6" within the first 10ft. from the foundation wall. If physical obstructions or lot lines prohibit the 10 ft. distance, a 2-5 percent slope shall be provided to an approved alternative method of diverting the water away from the foundation. Impervious surfaces shall also be sloped a minimum of 2 percent for 10ft away from structures to an approved drainage way. (CRC R401.3)
- 2. Stepped footings shall be used when slope of footing bottom is greater than I in IO $(\vee: H)$. 3. Concrete slabs: 3 1/2" minimum (CRC R506.1). Slabs under living areas and garages
- shall be reinforced with wire 6" x 6", 10-gauge x 10 gauge welded mesh or equivalent steel reinforcement and 4" thickness of 3/8 minimum gravel under the concrete slab. Separate from soil with a 6-mil polyethylene vapor retarder with joints lapped not less than 6 inches in living areas. A capillary break shall be installed when a vapor retarder is required.
- 4. Provide 18" X 24" foundation access through the floor or 16"X24" access through a perimeter wall. (CRC R408.4)
- 5. Minimum sill bolting: 1/2 " anchor bolts or approved anchors at 6 ft. o.c. maximum for one-story (CRC R403.1.6). Use anchor bolts at 4 ft. o.c. maximum for three story construction. Embed bolts 7" minimum. The anchor bolts shall be placed in the middle third of the width of the plate. Locate end bolts not less than 7 bolt diameters, nor more than 12" from ends of sill members. In SDC DO and above: Provide 3"X3"X0.229" plate washers on each bolt at braced or shear wall locations, standard cut washers shall be permitted for anchor bolts not located in braced/shear wall lines.

CLEARANCES AND TREATMENT FOR WOOD FRAMING

- I. Weather exposed glulam, beams and posts shall be pressure treated or shall be wood of natural resistance to decay (CRC R317.1.3 \$ 5)
- 2. Columns exposed to the weather or in basements when supported on concrete pier or metal pedestals shall be pressure treated or natural resistance to decay unless the pier/pedestals project I" above concrete or 6" above earth and the earth is covered by an approved impervious moisture barrier. (CRC R317.1.4 exc.)
- 3. Columns in enclosed crawl spaces or unexcavated areas located within the periphery of the building shall be pressure treated or natural resistance to decay unless the column is supported by a concrete pier or metal pedestal of a height 8" or more and the earth is covered by an impervious moisture barrier. (CRC R317.1.4 exc. 2)
- 4. Deck posts supported by concrete piers or metal pedestals projecting not less than I" above a concrete floor or 6" above exposed earth. (CRC R317.1.4 exc. 3)

<u>MALLS</u>

- I. Positive post to beam connection shall be provided to ensure against uplift and lateral displacement. (CRC R502.9 & CBC 2304.9.7)
- 2. All fasteners used for attachment of siding \$ into pressure treated lumber shall be of a corrosion resistant type (CRC R317.3).
- 3. Fire-block in concealed spaces of stud walls/partitions, vertically at ceiling/floor levels, & horizontally at IOft. intervals. Fire-block at soffits, drop ceilings/similar locations \$ in concealed spaces at the top/bottom of stair stringers. (CRC R302.11)
- 4. Provide approved building paper under the building siding and approved flashing at exterior openings (CRC R703.2). Specify a minimum of 2 layers of Grade D paper un-der stucco and 2 layers of 151b felt (or equivalent) under stone veneer.
- 5. Stucco shall have a minimum clearance to earth of 4 inches and 2 inches to paved sur-faces with an approved weep screed. (CRC R703.7.2.1) Masonry stone veneer shall be flashed beneath the first course of masonry and provided with weep holes immediately above the flashing. (CRC R703.8.5 and R703.8.6)

ROOF

- Provide a minimum $22^{A} \times 30^{A}$ access opening to attic (CRC R807); may be required to be 304x304 to remove the largest piece of mechanical equipment per the California Mechanical Code.
- 2. Roof drains/qutters required to be installed per the California Plumbing Code with leaf/ debris protection also installed.
- 3. All roofing shall be tested/listed Class A minimum.
- 4. Asphalt shingles with sloped roofs 2/12 to 4/12 shall have two layers of underlayment applied per CRC R905.2.2.

GARAGE AND CARPORT

- 1. Garage shall be separated from the dwelling unit \$ attic area by 1/2 inch aupsum board applied to the garage side. Garage beneath habitable rooms shall be separated by not less than 5/8" type X gypsum board. Structure supporting floor/ceiling assemblies used for required separations shall have 1/2" gypsum board installed minimum. Door openings from the garage to the dwellina shall be solid wood/steel doors or honeycomb steel doors not less than |3/8| thick or a 20-minute rated fire door. Doors shall be self-closing & self-latching. No openings directly into a sleeping room from the garage. When the dwelling and garage has fire sprinklers installed per R309.6 and R313, doors into the dwelling unit from the garage only need to be self-closing and self-latching. (CRC R302.5.1 & T-R302.6) (Carports open on two or more sides and no enclosed areas above do not require a separation).
- 2. Ducts penetrating the garage to dwelling separation shall be a minimum of 26 gauge with no openings into the garage. (CRC R302.5.2)
- 3. Penetrations through the garage to dwelling separation wall (other than ducts as listed above) shall be fire-blocked per CRC section R302.11, item
- 4. Garage and carport floor surfaces shall be non-combustible material and slope to drain towards the garage door opening. (CRC R309.1)
- 5. Appliances and receptacles installed in garage generating a glow, spark or flame shall be located 184 above floor unless it is listed as flammable vapor ignition resistant. Pro-vide protective post or other impact barrier from vehicles (CMC 308.0).

STAIRWAYS & RAMPS

- I. Exterior stair stringers must be naturally resistant to decay or pressure treated. (CRC R317.1)
- 2. Rise shall be maximum 7.75^{A} ; Run shall be $10^{"}$ minimum; headroom $6^{'}-8^{"}$ minimum; width 36" minimum, 31.5" between a handrail on one side and 27" with handrails on two sides. Variation between riser heights 3/8" maximum. A nosing not less than .75 inches but not more than 1.25 inches shall be provided on stairways with solid risers where the tread depth is less than II inches. The leading edge of treads shall project not more than 1.25 inches beyond the tread below. Open risers are permitted, pro-vided the opening between the treads does not permit the passage of a 4" sphere. (Openings are not limited when the stair has a rise of 30" or less). (CRC R311.7)
- 3. Stairways with 4 or more risers shall have a handrail on one side 34" to 38" above the tread nosing. Circular handrails shall have an outside diameter of 1.25"-2"; if not circular, it shall have a perimeter dimension of 4"-6.25" with a maximum cross-sectional dimension of 2.25". See R311.7.8.3 item# 2 for type II handrails with a parameter over 6.25". A minimum clearance of 1.5" shall be maintained from the wall or other surface. Handrails shall be returned, terminate in newel posts, or safety terminals. (CRC R311.7.8.2)
- 4. Guards shall be 42" minimum height (unless acting as a handrail/guard for a stairway; the guard height may be 34"-38" in height), with openings less than 4" inches clear (quards on the open sides of stairs may have 4.3/8" openings). (CRC R312)
- 5. Provide landings at the top/bottom of the stairway the width of the stairway. The depth of the landing shall be 36" minimum. (see CRC R311.7.6 for exceptions).
- 6. Usable spaces underneath enclosed/unenclosed stairways shall be protected by a minimum of 1/2" gypsum board. (CRC R302.7)
- 7. Ramps serving the eqress door shall have a slope of not more than I unit vertical in 12 units horizontal (8.3-percent slope). All other ramps shall have a maximum slope of 1 unit vertical in 8 units horizontal (12.5-percent slope). Exception: Where it is technically infeasible to comply because of site constraints, ramps shall have a slope of not more than I unit vertical in 8 units horizontal (12.5-percent slope) (CRC R311.8.1). Provide 3 'X3 'landings at the top and bottom of ramps, where doors open onto ramps, and where ramps change directions. (CRC R311.8)
- 8. Handrails shall be provided on each side of each continuous run of tread or flight with four or more risers. (CRC SEC. R311.7.8)
- 9. Exterior stairs, balconies, decks, etc. shall be attached to the primary structure with lag screws or equivalent attachment that will resist against withdrawal and vertical lateral forces or shall be designed to be self-supporting. (CRC R311.5)

<u>DECKS</u>

- Guards are required if deck or floor is over 30" above grade, minimum 42" high, with openings less than 4" (CRC R312). Guardrails shall be designed and detailed for lat-eral forces according to CRC Table 301.5.
- 2. Provide deck lateral load connections at each end of the deck and at deck intersec-tions per CRC R507.2.4. Connectors shall have a minimum allowable stress design capacity of 1,500lbs and install with 24" of the end of the deck. 750lb rated devices are allowed (DTTIZ as example) if located evenly at 4 points along the deck.
- 3. Posts/columns shall be retrained at the bottom end to prevent lateral displacement; clearly show approved post bases, straps, etc to achieve this per CRC R407.3
- 4. Hardware and fasteners to be hot-dipped galvanized, stainless steel, silicon bronzed or copper. (CRC R317.3)

ELECTRICAL

- I. No electrical panels shall be in closets of bathrooms. Maintain a clearance of 36" inches in front of panels, 30" wide or width of equipment and 6'-6" high for headroom (CEC 110.26).
- 2. A concrete-encased electrode (ufer) consisting of 20' of rebar or #4 copper wire placed in the bottom of a footing is required for all new construction. (CEC 250.52(A) (3) Bond all metal gas and water pipes to ground. All ground clamps shall be accessible and of an approved type. (CEC 250.104)
- 3. All 15/20 ampere receptacles installed per CEC 210.52 shall be listed tamper-resistant receptacles. (CEC 406.12)
- 4. All branch circuits supplying 15/20 ampere outlets in family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, surrooms, recreation rooms, closets, hallways, kitchens, laundry room or similar rooms/areas shall be protected by a listed combination type arc-fault circuit interrupter. (CEC 210.12)
- 5. Provide a minimum of one 20A circuit to be used for the laundry receptacle. (CEC 210.11(c)(2)) Provide a minimum of one 20A circuit for bathroom receptacle outlets. (CEC 210.11(C)(3)
- 6. Provide at least I outlet in basements, garages, laundry rooms, decks, balconies, porches and within 3' of the outside of each bathroom basin (CEC 210.52 (D), (F) \$ (G))
- 7. Furnaces installed in attics and crawl spaces shall have an access platform (catwalk in attics), light switch and receptacle in the space. Provide a service receptacle for the furnace. (CEC 210.63)
- 8. All dwellings must have one exterior outlet at the front and the back of the dwelling. (CEC 210.52(E))
- 9. Garage receptacles shall not serve outlets outside the garage. A minimum of I receptacle shall be provided for each car space. (210.52(G)(1))
- 10. A 15/20-amp receptacle shall be installed within 50ft of electrical service equipment. (CEC 210.64)
- 11. Kitchens, dining rooms, pantries, breakfast nooks, and similar areas must have a minimum of two 20A circuits. Kitchen, pantry, breakfast nooks, dining rooms, and similar areas counter outlets must be installed in every counter space 12" inches or wider, not greater than 4'o.c., within 24" inches of the end of any counter space and not higher than 20" above counter. (CEC 210.52 (C)) Island counter spaces shall have at least I receptacle outlet unless a range top or sink is installed then 2 receptacles may be required. I receptacle is required for peninsular counter spaces. Receptacles shall be located behind kitchen sinks if the counter area depth behind the sink is more than 12" for straight counters and 18" for corner installations. (CEC Fig-ure 210.52(C)(1))
- 12. Receptacles shall be installed at 12' o.c. maximum in walls starting at 6' maximum from the wall end. Walls longer than two feet shall have a receptacle. Hallway walls longer than 10 ft shall have a receptacle in hallways. (CEC 210.52(A))
- 13. Receptacles shall not be installed within or directly over a bathtub or shower stall. (CEC 406.9(C) Light pendants, ceiling fans, lighting tracks, etc shall not be located within 3ft horizontally and 8ft vertically above a shower and/or bathtub threshold. (CEC 410.10(D))
- 14. All lighting/fan fixtures located in wet or damp locations shall be rated for the appli-cation. (CEC 410.10)
- 15. GFCI outlets are required: for all kitchen receptacles that are designed to serve countertop surfaces, dishwashers, bathrooms, in under-floor spaces or below grade level, in exterior outlets, within 6' of a laundry/utility/wet bar sinks, laundry areas, and in all garage outlets including outlets dedicated to a single device or garage door opener (CEC 20.8).
- 16. Carbon-monoxide alarms shall be installed in dwelling units with fuel-burning appliances or with attached garages (CRC R315): 16.1. Outside of each separate sleeping area in the immediate vicinity of
- bedrooms 16.2. On every level of a dwelling unit including basements 16.3. Alterations, repairs, or additions exceeding 1,000 dollars (May be
- battery operated)
- 17. Smoke alarms shall be installed (CRC (R314): 17.1. In each room used for sleeping purposes
- Outside of each separate sleeping area in the immediate vicinity of 17.2. bedrooms.
- 17.3. In each story, including basements. 17.4. Shall not be installed within 20ft horizontally of cooking appliances and no closer than 3ft to mechanical registers, ceiling fans and bathroom doors with a bathtub or shower unless this would prevent placement of a smoke detector (314.3(4)).
- 17.5. Alterations, repairs, or additions exceeding 1,000 dollars. (May be battery operated)
- 18. All smoke and carbon-monoxide alarms shall be hardwired with a battery backup (smoke alarms shall have a 10-year sealed battery). (CRC R314.4 \$ R315.1.2)
- 19. All 15/20 ampere receptacles in wet locations shall have in-use (bubble) covers in-stalled. All receptacles in wet locations shall also be listed weather-resistant type. (CEC 406.9(B)(I)

- 1. Underfloor cleanouts shall not be more than 5 FEET from an underfloor access.
- degradation. (CPC 312.14)
- (CRC R307.2)
- construction only) (CEC 150(n)):

- Water Closets: 1.28 apf •Urinals: .125qpf •Kitchen Faucets: 1.8qpm @ 60psi
- is approved in writing by the APCO.
- type. (CMC 912.2)
- certifying emission limits.
- 10 ft. (CMC 802.5.4)

- work-ing platform. (CMC 304.2)
- (CMC 502.1)
- to a public way. (CMC 502.2.1)
- closets. (CMC 504.4.1(1))

<u>PLUMBING</u>

access door or trap door. (CPC 707.9)

2. ABS piping shall not be exposed to direct sunlight unless protected by water based synthetic latex paints (CPC 31213)

3. PVC piping shall not be exposed to direct sunlight unless protected by water based synthetic latex paint, .04" thick wrap or otherwise protected from UV

4. The adjacent space next to showers without thresholds shall be considered a Owet location when using the CRC, CBC, and the CEC. (CPC 408.5)

5. Shower compartments, regardless of shape, shall have a minimum finished interior of 1024 square inches (32" by 32") and shall also be capable of encompassing a 30" circle. The required area and dimensions shall be measured at a height equal to the top of the threshold and shall be maintained to a point of not less than 70" above the shower drain outlet. (CPC 408.6) Provide curtain rod or door a minimum of 22" in width (CPC 408.5). Showers and tubs with showers require a non-absorbent sur-face up to 6' above the floor.

6. Water Heaters: Provide pressure relief valve with drain to outside for water heater. (CPC 504.6) Provide seismic strapping in the upper & lower third of the water heater a minimum of 4" above controls. (CPC 507.2) The water heater shall be of an instantaneous type or the following shall be provided (new

• A 120V receptacles provided within 3ft • A category 111 or 1V vent, or a straight (without bends) Type B vent • Condensate drain that is no more than 2 inches higher than the base of the

water heater • Gas supply line with a minimum 200,000 Btu/hr dedicated capacity for the water heater

• Domestic hot water lines shall be insulated. Insulation shall be the thickness of the pipe diameter up to 2" in size and minimum 2" thickness for pipes larger than 2" in diameter. (CPC 609.11)

• A 3-inch gravity drain shall be provided at the low point of underfloor spaces, installed so as to provide 1/4-inch per foot arade and terminate at an exterior point of the building protected from blockage. The opening shall be screened with a corro-sion-resistant wire mesh with mesh openings of 1/4-inch in dimension. Lengths of the gravity drains over 10 feet in length shall be first approved by the Building Offi-cial. (L-V 8.9)

• Water heaters located in attics, ceiling assemblies and raised floor assemblies shall show a water-tight corrosion resistant minimum | 1/2 " deep pan under the water heater with a minimum 3/4 inch drain to the exterior of the building. (CPC 507.5)

• Water closet shall be located in a space not less than 30" in width (15 $^{\circ}$ on each side) and 24" minimum clearance in front. (CPC 402.5)

• The maximum hot water temperature discharging from a bathtub or whirlpool bath-tub filler shall not exceed 120 degrees F. (CPC 418)

• Provide anti-siphon valves on all hose bibs. (CPC 603.5.7)

• Floor drains shall be provided with a trap primer. (CPC 1007)

• Maximum water flow rates. (CGBSC 4.303.1)

•Lavatory Faucets: 1.2pgm @ 60psi Showerheads: 2qpm

MECHANICAL

I. Wood burning appliances shall be one of the following: • A pellet-fueled wood burning heater. • A U.S. EPA Phase II Certified wood burning heater. • An appliance or fireplace determined to meet the U.S. EPA particulate matter emis-sion standard of less than 7.5 grams per hour for a non-catalytic wood fired appli-ance or 4.1 grams per hour for a catalytic wood fired appliance and

I. All newly installed qas fireplaces shall be direct vent and sealed-combustion

2. Any installed wood stove or pellet stove shall have a permanent NSPS label

3. Top chimney must extend a minimum of 2 ft. above any part of the building within

4. Fireplaces shall have closable metal or glass doors, have combustion air intake drawn from the outside and have a readily accessible flue dampener control. Continuous burning pilot lights are prohibited. (CEC 150.0(e))

5. Provide combustion air for all gas fired appliances per CMC Chapter 7.

6. Gas vents passing through an insulated assembly shall have a metal insulation shield a minimum 2" above insulation. (509.6.2.7)

7. Gas water heater and furnace are not allowed in areas opening into bathrooms, closets or bedrooms unless installed in a closet equipped with a listed gasketed door assembly and a listed self-closing device with all combustion air obtained from the outdoors. (CPC 504)

8. Roof top equipment on roofs with over 4/12 slope shall have a level 30"x30"

9. Exhaust openings terminating to the outdoors shall be covered with a corrosion re-sistant screen 1/4"-1/2" in opening size (not required for clothes dryers).

10. Vent dryer to outside of building (not to under-floor area). Vent length shall be 14 ft. maximum. Shall terminate a minimum of 3' from the property line and any opening into the building. (CMC 504.4.2)

II. Environmental Air Ducts shall not terminate less than 3' to a property line, 10' to a forced air inlet, 3' to openings into the building and shall not discharge on

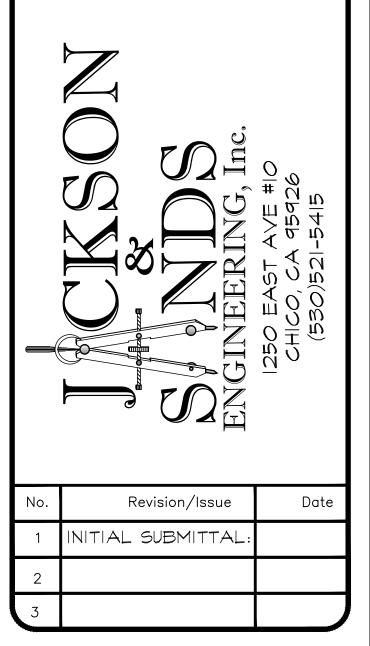
12. Provide minimum 100 square inches make-up air for clothes dryers installed in

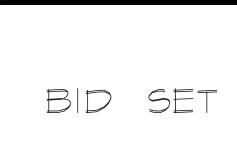
13. Heating system is required to maintain 68 degrees at 3 ft. above floor level and 2ft from exterior walls in all habitable rooms. (CRC R303.9)

General Notes

JACKSON AND SANDS ENGINEERING HAS PROVIDED THESE PLANS SOLELY FOR THE USE FOR THE PROJECT SPECIFIED ON THESE PLANS & DOES NOT REPRESENT THAT THESE PLANS ARE SUITABLE FOR ANY OTHER SITE WEATHER MODIFIED OR NOT.









09/02/21

Scale AS NOTED

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE RESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

| Y N/A RESPON. PARTY | CHAPTER 3 GREEN BUILDING SECTION 301 GENERAL | Y | N/A | RESPON PARTY | |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7. | | | | 4.106.4.2.1.1 Electric Vehicle Charging required by Section 4.106.2.2, Item 3, sha 1. The EV space shall be located adjacer requirements of the <i>California Building</i> |
| | 301.1.1 Additions and alterations. [HCD] The mandatory provisions of Chapter 4 shall be applied to additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size. The requirements shall apply only to and/or within the specific area of the addition or alteration. | | | | from the accessible parking space. 2. The EV space shall be located on an a <i>Code,</i> Chapter 2, to the building. Exception: Electric vehicle chargin |
| | Note: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and | | | | California Building Code, Chapter 1 Section 4.106.4.2.2, Item 3. Note: Electric Vehicle charging stations s Building Code, Chapter 11B. |
| | other important enactment dates. 301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD] The provisions of individual sections of CALGreen may apply to either low-rise residential buildings high-rise residential buildings, or both. Individual sections will be designated by banners to indicate where the section applies | | | | 4.106.4.2.2 Electric vehicle charging sp designed to comply with the following: 1. The minimum length of each EV 2. The minimum width of each EV 3. One in every 25 EV spaces, but |
| | specifically to low-rise only (LR) or high-rise only (HR). When the section applies to both low-rise and high-rise buildings, no banner will be used. SECTION 302 MIXED OCCUPANCY BUILDINGS | | | | wide minimum aisle. A 5-foot (1 minimum width of the EV space a. Surface slope for this EV horizontal (2.083 percent |
| | 302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy. ABBREVIATION DEFINITIONS: | | | | 4.106.4.2.3 Single EV space required. In volt dedicated branch circuit. The raceway diameter). The raceway shall originate at chains they are neglecting in clean provision |
| | HCDDepartment of Housing and Community DevelopmentBSCCalifornia Building Standards CommissionDSA-SSDivision of the State Architect, Structural SafetyOSHPDOffice of Statewide Health Planning and DevelopmentLRLow Rise | | | | cabinet, box or enclosure in close proximi documents shall identify the raceway term capacity to install a 40-ampere minimum of installation of a branch circuit overcurrent 4.106.4.2.4 Multiple EV spaces required |
| | HR High Rise AA Additions and Alterations N New | | | | termination point and proposed location o shall also provide information on amperage electrical load calculations to verify that th including any on-site distribution transform at all required EV spaces at the full rated |
| | CHAPTER 4 RESIDENTIAL MANDATORY MEASURES DIVISION 4.1 PLANNING AND DESIGN SECTION 4.102 DEFINITIONS 4.102.1 DEFINITIONS | | | | 40-ampere minimum branch circuit. Requinstalled underground, enclosed, inaccess time of original construction. 4.106.4.2.5 Identification. The service particular protective device space(s) reserved for furwith the California Electrical Code. |
| | The following terms are defined in Chapter 2 (and are included here for reference) FRENCH DRAIN. A trench, hole or other depressed area loosely filled with rock, gravel, fragments of brick or similar pervious material used to collect or channel drainage or runoff water. | | | | 4.106.4.3 New hotels and motels. All ne capable of supporting future installation of of the EV spaces. |
| | WATTLES. Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant materials such as hay, straw or similar material shaped in the form of tubes and placed on a downflow slope. Wattles are also used for perimeter and inlet controls. 4.106 SITE DEVELOPMENT 4.106.1 GENERAL. Preservation and use of available natural resources shall be accomplished through evaluation and careful planning to minimize negative effects on the site and adjacent areas. Preservation of slopes, manual to find the minimize negative effects on the site and adjacent areas. | | | | Notes: 1. Construction documents are intered or facilitating future EV charging 2. There is no requirement for EV sare installed for use. 4.106.4.3.1 Number of required E |
| | Management of storm water drainage and erosion controls shall comply with this section. 4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION. Projects which disturb less than one acre of soil and are not part of a larger common plan of development which in total disturbs one acre or more, shall manage storm water drainage during construction. In order to manage storm water drainage during construction, one or more of the following measures shall be implemented to prevent flooding of adjacent property, prevent erosion and retain soil runoff on the site. | | | | on the total number of parking space Table 4.106.4.3.1. Calculations for nearest whole number. TABLE 4.106.4.3.1 |
| | Retention basins of sufficient size shall be utilized to retain storm water on the site. 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. Compliance with a lawfully enacted storm water management ordinance. | | | | TOTAL NUMBER OF PARKIN SPACES 0-9 |
| | Note: Refer to the State Water Resources Control Board for projects which disturb one acre or more of soil, or are part of a larger common plan of development which in total disturbs one acre or more of soil. (Website: https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.html) | | | | 10-25 26-50 |
| | 4.106.3 GRADING AND PAVING. Construction plans shall indicate how the site grading or drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following: Swales | | | | 51-75 76-100 101-150 151-200 |
| | 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. | | | | 201 and over 4.106.4.3.2 Electric vehicle charging space comply with the following: |
| | Exception: Additions and alterations not altering the drainage path. 4.106.4 Electric vehicle (EV) charging for new construction. New construction shall comply with Sections 4.106.4.1, 4.106.4.2, or 4.106.4.3 to facilitate future installation and use of EV chargers. Electric vehicle supply equipment (EVSE) shall be installed in accordance with the California Electrical Code, Article 625. | | | | The minimum length of each EV s The minimum width of each EV sp 4.106.4.3.3 Single EV space required. Whe in accordance with Section 4.106.4.2.3. |
| | Exceptions: On a case-by-case basis, where the local enforcing agency has determined EV charging and infrastructure are not feasible based upon one or more of the following conditions: Where there is no commercial power supply. Where there is evidence substantiating that meeting the requirements will alter the local | | | | 4.106.4.3.4 Multiple EV spaces required. W designed in accordance with Section 4.106.4.3 4.106.4.3.5 Identification. The service panel |
| | utility infrastructure design requirements on the utility side of the meter so as to increase the utility side cost to the homeowner or the developer by more than \$400.00 per dwelling unit. 2. Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional parking facilities. | | | | 4.106.4.2.5. 4.106.4.3.6 Accessible EV spaces. In additin hotels/motels and all EVSE, when installed, st stations in the <i>California Building Code</i> , Chap |
| | 4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages. For each dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device. | | | | DIVISION 4.2 ENERGY EFFIC 4.201 GENERAL 4.201.1 SCOPE. For the purposes of mandatory energy Commission will continue to adopt mandatory standard |
| | 4.106.4.1.1 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE". | | | | |
| | 4.106.4.2 New multifamily dwellings. If residential parking is available, ten (10) percent of the total number of parking spaces on a building site, provided for all types of parking facilities, shall be electric vehicle charging spaces (EV spaces) capable of supporting future EVSE. Calculations for the required number of EV spaces shall be rounded up to the nearest whole number. | | | | |
| | Notes: 1. Construction documents are intended to demonstrate the project's capability and capacity for facilitating future EV charging. 2. There is no requirement for EV spaces to be constructed or available until EV chargers are installed for use. | | | | |
| | 4.106.4.2.1 Electric vehicle charging space (EV space) locations. Construction documents shall indicate the location of proposed EV spaces. Where common use parking is provided at least one EV space shall be located in the common use parking area and shall be available for use by all residents. | | | | |
| | | | | | |

| | | | Y N/A RESPON. PARTY | - | | _ | Y N/A RESPON. PARTY | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| lectric Vehicle Charging Stations | | | | DIVISION 4.3 WATER EFFICIENC | CY AND CONSERVATION | ON | | DIVISION 4.4 MATERIAL CONSERVATION AND RESO |
| ction 4.106.2.2, Item 3, shall comply ce shall be located adjacent to an a | | | | 4.303 INDOOR WATER USE 4.303.1 WATER CONSERVING PLUMBING FIXTURES AND | | | | EFFICIENCY 4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE |
| s of the <i>California Building Code</i> , C essible parking space. ce shall be located on an accessible ter 2, to the building. | hapter 11A, to allow use of the E | V charger | | 4.303.1 WATER CONSERVING FLOMBING FLOCES AND urinals) and fittings (faucets and showerheads) shall co and 4.303.4.4. Note: All noncompliant plumbing fixtures in any resider | mply with the sections 4.303.1.1, 4.303.1 | 1.2, 4.303.1.3, | | 4.406 ENHANCED DORABILITY AND REDUCED MAINTENANCE 4.406.1 RODENT PROOFING. Annular spaces around pipes, electric cables, conduits or other op sole/bottom plates at exterior walls shall be protected against the passage of rodents by clos openings with cement mortar, concrete masonry or a similar method acceptable to the enform agency. |
| on: Electric vehicle charging station: a <i>Building Code</i> , Chapter 11B, are r 4.106.4.2.2, Item 3. | s designed and constructed in co not required to comply with Section | ompliance with the on 4.106.4.2.1.1 and | | plumbing fixtures. Plumbing fixture replacement completion, certificate of occupancy, or final perr Code Section 1101.1, et seq., for the definition o buildings affected and other important enactmen | nit approval by the local building departm f a noncompliant plumbing fixture, types | nent. See Civil | | 4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECY 4.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum percent of the non-hazardous construction and demolition waste in accordance with either St |
| /ehicle charging stations serving pu Chapter 11B. | ublic housing are required to com | ply with the California | | 4.303.1.1 Water Closets. The effective flush volume flush. Tank-type water closets shall be certified to the | of all water closets shall not exceed 1.28 performance criteria of the U.S. EPA Wat | gallons per terSense | | 4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste management ordinance. |
| ctric vehicle charging space (EV nply with the following: | space) dimensions. The EV sp | ace shall be | | Specification for Tank-type Toilets. Note: The effective flush volume of dual flush to | ilets is defined as the composite. average | e flush volume | | Exceptions: 1. Excavated soil and land-clearing debris. |
| ninimum length of each EV space s ninimum width of each EV space sł | | | | of two reduced flushes and one full flush. 4.303.1.2 Urinals. The effective flush volume of wall r | | | | Alternate waste reduction methods developed by working with local agencies if diversion recycle facilities capable of compliance with this item do not exist or are not located rease close to the iobsite. |
| in every 25 EV spaces, but not less minimum aisle. A 5-foot (1524 mm) num width of the EV space is 12 fee |) wide minimum aisle shall be pe | | | The effective flush volume of all other urinals shall not of 4.303.1.3 Showerheads. | | , F | | The enforcing agency may make exceptions to the requirements of this section when iso jobsites are located in areas beyond the haul boundaries of the diversion facility. |
| Surface slope for this EV space an horizontal (2.083 percent slope) ir | nd the aisle shall not exceed 1 u | nit vertical in 48 units | | 4.303.1.3.1 Single Showerhead. Showerhead: gallons per minute at 80 psi. Showerheads shall WaterSense Specification for Showerheads. | | more than 1.8 | | 4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN . Submit a construction waste manager in conformance with Items 1 through 5. The construction waste management plan shall be uncessary and shall be available during construction for examination by the enforcing agence. |
| gle EV space required. Install a lis pranch circuit. The raceway shall no raceway shall originate at the main enclosure in close proximity to the p | ot be less than trade size 1 (nomi service or subpanel and shall te | inal 1-inch inside rminate into a listed | | 4.303.1.3.2 Multiple showerheads serving one showerhead, the combined flow rate of all the sh a single valve shall not exceed 1.8 gallons per m allow one shower outlet to be in operation at a tir | owerheads and/or other shower outlets o inute at 80 psi, or the shower shall be de | controlled by | | Identify the construction and demolition waste materials to be diverted from disposal by rereuse on the project or salvage for future use or sale. Specify if construction and demolition waste materials will be sorted on-site (source sepa bulk mixed (single stream). Identify diversion facilities where the construction and demolition waste material collected |
| Il identify the raceway termination p all a 40-ampere minimum dedicated branch circuit overcurrent protectiv | d branch circuit and space(s) rese | | | Note : A hand-held shower shall be consid | | | | taken. 4. Identify construction methods employed to reduce the amount of construction and demol |
| Itiple EV spaces required. Constr | ruction documents shall indicate | | | 4.303.1.4 Faucets. | | | | generated.5. Specify that the amount of construction and demolition waste materials diverted shall be by weight or volume, but not by both. |
| nt and proposed location of future E de information on amperage of futur alculations to verify that the electric | re EVSE, raceway method(s), wi cal panel service capacity and ele | ring schematics and ectrical system, | | 4.303.1.4.1 Residential Lavatory Faucets. Th not exceed 1.2 gallons per minute at 60 psi. The not be less than 0.8 gallons per minute at 20 psi. | e minimum flow rate of residential lavator | | | 4.408.3 WASTE MANAGEMENT COMPANY. Utilize a waste management company, approved b enforcing agency, which can provide verifiable documentation that the percentage of constru |
| n-site distribution transformer(s), ha EV spaces at the full rated amperag imum branch circuit. Required race | e of the EVSE. Plan design shall | l be based upon a | | 4.303.1.4.2 Lavatory Faucets in Common and faucets installed in common and public use area | | | | 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 and demolitic |
| ground, enclosed, inaccessible or in construction. | concealed areas and spaces sh | nall be installed at the | | buildings shall not exceed 0.5 gallons per minute 4.303.1.4.3 Metering Faucets. Metering faucet | e at 60 psi. | | | materials will be diverted by a waste management company. |
| ntification. The service panel or su se space(s) reserved for future EV c nia Electrical Code. | | | | more than 0.2 gallons per cycle. | Ŭ | | | 4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR]. Projects that generate a total com weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 lbs./sq.ft. of the building area shall meet the minimum 65% construction waste reduction requ |
| hotels and motels. All newly cons | structed hotels and motels shall p The construction documents shal | provide EV spaces Il identify the location | | 4.303.1.4.4 Kitchen Faucets. The maximum fluper minute at 60 psi. Kitchen faucets may temport to exceed 2.2 gallons per minute at 60 psi, and r minute at 60 psi. | prarily increase the flow above the maxim nust default to a maximum flow rate of 1. | num rate, but not .8 gallons per | | Section 4.408.1 4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE. Projects that generate a total c weight of construction and demolition waste disposed of in landfills, which do not exceed 2 p per square foot of the building area, shall meet the minimum 65% construction waste reduction |
| | | | | Note : Where complying faucets are unavailable reduction. | | | | requirement in Section 4.408.1 4.408.5 DOCUMENTATION. Documentation shall be provided to the enforcing agency which dem |
| ruction documents are intended to a ilitating future EV charging. is no requirement for EV spaces to stalled for use. | | | | 4.303.2 STANDARDS FOR PLUMBING FIXTURES AND FIT in accordance with the <i>California Plumbing Code</i> , and s 1701.1 of the <i>California Plumbing Code</i> . | | | | compliance with Section 4.408.2, items 1 through 5, Section 4.408.3 or Section 4.408.4 Notes: 1. Sample forms found in "A Guide to the California Green Building Standards Code |
| 3.1 Number of required EV spaces tal number of parking spaces provic 106.4.3.1. Calculations for the requi whole number. | ded for all types of parking faciliti | es in accordance with | | NOTE: THIS TABLE COMPILES THE DATA IS INCLUDED AS A CONVENIENCE | | | | (Residential)" located at www.hcd.ca.gov/CALGreen.html may be used to assist in documenting compliance with this section. 2. Mixed construction and demolition debris (C & D) processors can be located at the Department of Resources Recycling and Recovery (CalRecycle). |
| BLE 4.106.4.3.1 | |] | | TABLE - MAXIMUM FIXTUI | RE WATER USE | - | | 4.410 BUILDING MAINTENANCE AND OPERATION 4.410.1 OPERATION AND MAINTENANCE MANUAL. At the time of final inspection, a manual, c |
| AL NUMBER OF PARKING CES | NUMBER OF REQUIRED EV SPACES | - | | SHOWER HEADS (RESIDENTIAL) | 1.8 GMP @ 80 PSI | | | disc, web-based reference or other media acceptable to the enforcing agency which includes following shall be placed in the building: |
| | 0 | | | LAVATORY FAUCETS (RESIDENTIAL) | MAX. 1.2 GPM @ 60 PSI MIN. 0.8 GPM @ 20 PSI | | | Directions to the owner or occupant that the manual shall remain with the building throug life cycle of the structure. Operation and maintenance instructions for the following: |
| 5 | 1 | | | LAVATORY FAUCETS IN COMMON & PUBLIC USE AREAS | 0.5 GPM @ 60 PSI | | | Equipment and appliances, including water-saving devices and systems, HVAC sy photovoltaic systems, electric vehicle chargers, water-heating systems and other r appliances and equipment. |
| 0 | 2 | | | KITCHEN FAUCETS | 1.8 GPM @ 60 PSI | | | b. Roof and yard drainage, including gutters and downspouts. c. Space conditioning systems, including condensers and air filters. d. Landscape irrigation systems. |
| 5 00 | 4 | | | METERING FAUCETS WATER CLOSET | 0.2 GAL/CYCLE 1.28 GAL/FLUSH | | | e. Water reuse systems.3. Information from local utility, water and waste recovery providers on methods to further re |
| 150 | 7 | | | URINALS | 0.125 GAL/FLUSH | | | resource consumption, including recycle programs and locations. 4. Public transportation and/or carpool options available in the area. 5. Educational material on the positive impacts of an interior relative humidity between 30-6 |
| 200 and over | 10 6 percent of total | - | | 4.304 OUTDOOR WATER USE | | | | and what methods an occupant may use to maintain the relative humidity level in that rar Information about water-conserving landscape and irrigation design and controllers which water. |
| c vehicle charging space (EV spa | ce) dimensions. The EV spaces | s shall be designed to | | 4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAP a local water efficient landscape ordinance or the current Cali | fornia Department of Water Resources' M | | | Instructions for maintaining gutters and downspouts and the importance of diverting wate feet away from the foundation. Information on required routine maintenance measures, including, but not limited to, caul |
| owing: nimum length of each EV space sha | all be 18 feet (5486mm). | - | | Efficient Landscape Ordinance (MWELO), whichever is more NOTES: | stringent. | | | painting, grading around the building, etc. 9. Information about state solar energy and incentive programs available. 10. A copy of all special inspections verifications required by the enforcing agency or this co |
| nimum width of each EV space shal EV space required. When a single Section 4.106.4.2.3. | | pace shall be designed | | The Model Water Efficient Landscape Ordinance (M Title 23, Chapter 2.7, Division 2. MWELO and support available at: https://www.water.ca.gov/ | | | | 4.410.2 RECYCLING BY OCCUPANTS. Where 5 or more multifamily dwelling units are constructed building site, provide readily accessible area(s) that serves all buildings on the site and are identified depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum |
| e EV spaces required. When mult ance with Section 4.106.4.2.4. cation. The service panels or sub- | | | | | | | | corrugated cardboard, glass, plastics, organic waster, and metals, or meet a lawfully enacted local ordinance, if more restrictive. Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Co 42649.82 (a)(2)(A) et seq. are note required to comply with the organic waste p |
| Sible EV spaces. In addition to the II EVSE, when installed, shall comp <i>ornia Building Code</i> . Chapter 11B. | | | | | | | | this section. |
| | v | | | | | | | DIVISION 4.5 ENVIRONMENTAL QUALITY SECTION 4.501 GENERAL |
| | | -life main Francesco | | | | | | 4.501.1 Scope The provisions of this chapter shall outline means of reducing the quality of air contaminants that ar irritating and/or harmful to the comfort and well being of a building's installers, occupants and neigh |
| rposes of mandatory energy efficier e to adopt mandatory standards. | ncy standards in this code, the Ca | alifornia Energy | | | | | | SECTION 4.502 DEFINITIONS 5.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference) |
| | | | | | | | | AGRIFIBER PRODUCTS. Agrifiber products include wheatboard, strawboard, panel substrates and cores, not including furniture, fixtures and equipment (FF&E) not considered base building element |
| | | | | | | | | COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particlet medium density fiberboard. "Composite wood products" does not include hardboard, structural plyw |
| | | | | | | | | structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefa wood I-joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), title 1 93120.1. |
| | | | | | | | | DIRECT-VENT APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere. |
| | | | | | | | | |
| | | | | | | | | |

NOT APPLICABLE RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

4.4 MATERIAL CONSERVATION AND RESOURCE NCY

ANCED DURABILITY AND REDUCED MAINTENANCE NT PROOFING. Annular spaces around pipes, electric cables, conduits or other openings in om plates at exterior walls shall be protected against the passage of rodents by closing such with cement mortar, concrete masonry or a similar method acceptable to the enforcing

STRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING **TRUCTION WASTE MANAGEMENT.** Recycle and/or salvage for reuse a minimum of 65 of the non-hazardous construction and demolition waste in accordance with either Section

nate waste reduction methods developed by working with local agencies if diversion or cle facilities capable of compliance with this item do not exist or are not located reasonably to the jobsite.

enforcing agency may make exceptions to the requirements of this section when isolated ites are located in areas beyond the haul boundaries of the diversion facility.

TRUCTION WASTE MANAGEMENT PLAN. Submit a construction waste management plan mance with Items 1 through 5. The construction waste management plan shall be updated as ry and shall be available during construction for examination by the enforcing agency.

ify the construction and demolition waste materials to be diverted from disposal by recycling, on the project or salvage for future use or sale. ify if construction and demolition waste materials will be sorted on-site (source separated) or mixed (single stream) ify diversion facilities where the construction and demolition waste material collected will be

ify construction methods employed to reduce the amount of construction and demolition waste ify that the amount of construction and demolition waste materials diverted shall be calculated

eight or volume, but not by both. E MANAGEMENT COMPANY. Utilize a waste management company, approved by the agency, which can provide verifiable documentation that the percentage of construction and

n waste material diverted from the landfill complies with Section 4.408.1. ne owner or contractor may make the determination if the construction and demolition waste will be diverted by a waste management company.

E STREAM REDUCTION ALTERNATIVE [LR]. Projects that generate a total combined f construction and demolition waste disposed of in landfills, which do not exceed 3.4 of the building area shall meet the minimum 65% construction waste reduction requirement in 1.408.1

WASTE STREAM REDUCTION ALTERNATIVE. Projects that generate a total combined f construction and demolition waste disposed of in landfills, which do not exceed 2 pounds re foot of the building area, shall meet the minimum 65% construction waste reduction ent in Section 4.408.1

MENTATION. Documentation shall be provided to the enforcing agency which demonstrates ce with Section 4.408.2, items 1 through 5, Section 4.408.3 or Section 4.408.4.

Mixed construction and demolition debris (C & D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

DING MAINTENANCE AND OPERATION ATION AND MAINTENANCE MANUAL. At the time of final inspection, a manual compact -based reference or other media acceptable to the enforcing agency which includes all of the

shall be placed in the building: tions to the owner or occupant that the manual shall remain with the building throughout the

ycle of the structure. ation and maintenance instructions for the following: Equipment and appliances, including water-saving devices and systems, HVAC systems, photovoltaic systems, electric vehicle chargers, water-heating systems and other major

mation from local utility, water and waste recovery providers on methods to further reduce urce consumption, including recycle programs and locations. c transportation and/or carpool options available in the area.

ational 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. mation about water-conserving landscape and irrigation design and controllers which conserve

uctions for maintaining gutters and downspouts and the importance of diverting water at least 5 away from the foundation mation on required routine maintenance measures, including, but not limited to, caulking, ing, grading around the building, etc.

CLING BY OCCUPANTS. Where 5 or more multifamily dwelling units are constructed on a ovide readily accessible area(s) that serves all buildings on the site and are identified for the age and collection of non-hazardous materials for recycling, including (at a minimum) paper, board, glass, plastics, organic waster, and metals, or meet a lawfully enacted local recycling ore restrictive.

on: Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section 42649.82 (a)(2)(A) et seq. are note required to comply with the organic waste portion of this section.

14.5 ENVIRONMENTAL QUALITY

4.501 GENERAL

of this chapter shall outline means of reducing the quality of air contaminants that are odorous, harmful to the comfort and well being of a building's installers, occupants and neighbors. 4.502 DEFINITIONS

RODUCTS. Agrifiber products include wheatboard, strawboard, panel substrates and door ding furniture, fixtures and equipment (FF&E) not considered base building elements.

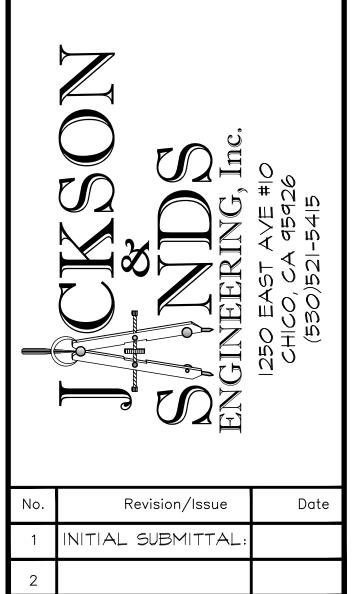
VOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and / fiberboard. "Composite wood products" does not include hardboard, structural plywood, s, structural composite lumber, oriented strand board, glued laminated timber, prefabricated finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section

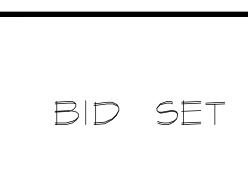
APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws all air for

JACKSON AND SANDS ENGINEERING HAS PROVIDED THESE PLANS SOLELY FOR THE USE FOR THE PROJECT SPECIFIED ON THESE PLANS & DOES NOT REPRESENT THAT THESE PLANS ARE SUITABLE FOR ANY OTHER SITE WEATHER MODIFIED OR NOT.











09/02/

Scale AS NOTED

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE RESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

| Y N/ | A RESPON. PARTY | | | Y N/A RESPON. PARTY | | | | | |
|------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--|--|--|--|--|
| | | | | | | | | | |
| | | MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum chan | | | | | | | |
| | | compound to the "Base Reactive Organic Gas (ROG) Mixture" per we hundredths of a gram (g O ³ /g ROC). | - · · | 00 | | | | | |
| | | Note: MIR values for individual compounds and hydrocarbon solvents are specified in CCR, Title 17, Sections 94700 and 94701. | | | | | | | |
| | | MOISTURE CONTENT. The weight of the water in wood expressed in percentage of the weight of the oven-dry wood. | | | | | | | |
| | | PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging). Note: PWMIR is calculated according to equations found in CCR, Title 17, Section 94521 (a). | | | | | | | |
| | | REACTIVE ORGANIC COMPOUND (ROC). Any compound that has ozone formation in the troposphere. | the potential, once emitted, to contribute to | | | | | | |
| | | VOC. A volatile organic compound (VOC) broadly defined as a chemic with vapor pressures greater than 0.1 millimeters of mercury at room t | | | | | | | |
| | | hydrogen and may contain oxygen, nitrogen and other elements. See | | | | | | | |
| | | 4.503 FIREPLACES 4.503.1 GENERAL . Any installed gas fireplace shall be a direct-vent woodstove or pellet stove shall comply with U.S. EPA New Source Pe applicable, and shall have a permanent label indicating they are certific pellet stoves and fireplaces shall also comply with applicable local ord | erformance Standards (NSPS) emission limit ied to meet the emission limits. Woodstoves | | | | | | |
| | | 4.504 POLLUTANT CONTROL | | | | | | | |
| | | 4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MEC CONSTRUCTION. At the time of rough installation, during storage or startup of the heating, cooling and ventilating equipment, all duct and openings shall be covered with tape, plastic, sheet metal or other met reduce the amount of water, dust or debris which may enter the system | n the construction site and until final other related air distribution component hods acceptable to the enforcing agency to | | | | | | |
| | | 4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materia | als shall comply with this section. | | | | | | |
| | | 4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, sealar requirements of the following standards unless more stringent lo management district rules apply: | | t the | | | | | |
| | | Adhesives, adhesive bonding primers, adhesive prim shall comply with local or regional air pollution contro applicable or SCAQMD Rule 1168 VOC limits, as sho Such products also shall comply with the Rule 1168 p compounds (chloroform, ethylene dichloride, methyle tricloroethylene), except for aerosol products, as spece | I or air quality management district rules whe own in Table 4.504.1 or 4.504.2, as applicab prohibition on the use of certain toxic ane chloride, perchloroethylene and | | | | | | |
| | | Aerosol adhesives, and smaller unit sizes of adhesive units of product, less packaging, which do not weigh than 16 fluid ounces) shall comply with statewide VO prohibitions on use of certain toxic compounds, of Ca | more than 1 pound and do not consist of mo C standards and other requirements, includi | | | | | | |
| | | commencing with section 94507. | | .e | | | | | |
| | | 4.504.2.2 Paints and Coatings. Architectural paints and coating the ARB Architectural Suggested Control Measure, as shown in apply. The VOC content limit for coatings that do not meet the | n Table 4.504.3, unless more stringent local l | imits | | | | | |
| | | listed in Table 4.504.3 shall be determined by classifying the co coating, based on its gloss, as defined in subsections 4.21, 4.36 Board, Suggested Control Measure, and the corresponding Flat Table 4.504.3 shall apply. | pating as a Flat, Nonflat or Nonflat-High Glos 6, and 4.37 of the 2007 California Air Resour | s I | | | | | |
| | נ | 4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and c | | | | | | | |
| | | Limits for ROC in Section 94522(a)(2) and other requirements, compounds and ozone depleting substances, in Sections 9452 <i>Regulations</i> , Title 17, commencing with Section 94520; and in a | 2(e)(1) and (f)(1) of California Code of | | | | | | |
| | | Quality Management District additionally comply with the percent 8, Rule 49. | | | | | | | |
| | 1 | 4 504 2 4 Verification Verification of compliance with this sec | | | | | | | |
| | | | tion shall be provided at the request of the | | | | | | |
| | | enforcing agency. Documentation may include, but is not limite | | | | | | | |
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| | | enforcing agency. Documentation may include, but is not limite 1. Manufacturer's product specification. 2. Field verification of on-site product containers. | ed to, the following: | | | | | | |
| | | enforcing agency. Documentation may include, but is not limite 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIMI | ed to, the following: | | | | | | |
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| | | enforcing agency. Documentation may include, but is not limite 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIMI (Less Water and Less Exempt Compounds in Grams ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES | IT _{1,2} s per Liter) VOC LIMIT 50 | | | | | | |
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| | | enforcing agency. Documentation may include, but is not limite 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIMI (Less Water and Less Exempt Compounds in Grams ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES CARPET PAD ADHESIVES OUTDOOR CARPET ADHESIVES OUTDOOR CARPET ADHESIVES OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES RUBBER FLOOR ADHESIVES SUBFLOOR ADHESIVES VCT & ASPHALT TILE ADHESIVES VCT & ASPHALT TILE ADHESIVES DRYWALL & PANEL ADHESIVES DRYWALL & PANEL ADHESIVES MULTIPURPOSE CONSTRUCTION ADHESIVE STRUCTURAL GLAZING ADHESIVES OTHER ADHESIVES NOT LISTED SPECIALTY APPLICATIONS PVC WELDING ADHESIVE PRIMER FOR PLASTIC CONTACT ADHESIVE STRUCTURAL WOOD MEMBER ADHESIVE STRUCTURAL WOOD MEMBER ADHESIVE TOP & TRIM ADHESIVE SUBSTRATE SPECIFIC APPLICATIONS METAL TO METAL PLASTIC FOAMS POROUS MATERIAL (EXCEPT WOOD) WOOD | Ad to, the following: T1.2 s per Liter) VOC LIMIT 50 50 50 150 65 50 50 50 50 50 50 50 50 50 5 | | | | | | |
| | | enforcing agency. Documentation may include, but is not limite 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIMI (Less Water and Less Exempt Compounds in Grams ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES CARPET PAD ADHESIVES CARPET PAD ADHESIVES OUTDOOR CARPET ADHESIVES OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES WOOD FLOORING ADHESIVES UNBBER FLOOR ADHESIVES UNBBER FLOOR ADHESIVES UCT & ASPHALT TILE ADHESIVES UCT & ASPHALT TILE ADHESIVES COVE BASE ADHESIVES UCT & ASPHALT TILE ADHESIVES UNTURAL GLAZING ADHESIVES UNTURAL GLAZING ADHESIVES SINGLE-PLY ROOF MEMBRANE ADHESIVES UTHER ADHESIVES NOT LISTED SPECIALTY APPLICATIONS PVC WELDING CPVC WELDING ABS WELDING PLASTIC CEMENT WELDING ADHESIVE PRIMER FOR PLASTIC CONTACT ADHESIVE STRUCTURAL WOOD MEMBER ADHESIVE TOP & TRIM ADHESIVE SUBSTRATE SPECIFIC APPLICATIONS METAL TO METAL PLASTIC FOAMS POROUS MATERIAL (EXCEPT WOOD) WOOD IBER GLASS 1. IF AN ADHESIVE IS USED TO BOND DISSIMILATHE ADHESIVE WITH THE HIGHEST VOC CONTE 2. FOR ADDITIONAL INFORMATION REGARDING | ad to, the following: IT 1.2 s per Liter) VOC LIMIT 50 50 50 60 50 65 50 50 50 50 50 50 50 50 50 5 | | | | | | |
| | | enforcing agency. Documentation may include, but is not limite 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIMI (Less Water and Less Exempt Compounds in Grame ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES CARPET PAD ADHESIVES OUTDOOR CARPET ADHESIVES OUTDOOR CARPET ADHESIVES OUTDOOR CARPET ADHESIVES UNOOD FLOORING ADHESIVES UNOOD FLOORING ADHESIVES UNOOD FLOORING ADHESIVES UNEBER FLOOR ADHESIVES UCT & ASPHALT TILE ADHESIVES COVE BASE ADHESIVES OVT & ASPHALT TILE ADHESIVES OTHER ADHESIVES SINGLE-PLY ROOF MEMBRANE ADHESIVE STRUCTURAL GLAZING ADHESIVES OTHER ADHESIVES NOT LISTED SPECIALTY APPLICATIONS PVC WELDING CPVC WELDING ABS WELDING PLASTIC CEMENT WELDING ADHESIVE PRIMER FOR PLASTIC CONTACT ADHESIVE STRUCTURAL WOOD MEMBER ADHESIVE SUBSTRATE SPECIFIC APPLICATIONS METAL TO METAL PLASTIC FOAMS POROUS MATERIAL (EXCEPT WOOD) WOOD FIBERGLASS 1. IF AN ADHESIVE IS USED TO BOND DISSIMILA THE ADHESIVE WITH THE HIGHEST VOC CONTE | ad to, the following: IT 1.2 s per Liter) VOC LIMIT 50 50 50 60 50 65 50 50 50 50 50 50 50 50 50 5 | | | | | | |

TABLE 4.504.2 - SEALAN (Less Water and Less Exempt Con SEALANTS ARCHITECTURAL MARINE DECK NONMEMBRANE ROOF ROADWAY SINGLE-PLY ROOF MEMBRANE OTHER SEALANT PRIMERS ARCHITECTURAL NON-POROUS POROUS MODIFIED BITUMINOUS MARINE DECK OTHER

| COATING CATEGORY | VOC LIMIT |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| FLAT COATINGS | 50 |
| NON-FLAT COATINGS | 100 |
| NONFLAT-HIGH GLOSS COATINGS | 150 |
| SPECIALTY COATINGS | |
| ALUMINUM ROOF COATINGS | 400 |
| BASEMENT SPECIALTY COATINGS | 400 |
| BITUMINOUS ROOF COATINGS | 50 |
| BITUMINOUS ROOF PRIMERS | 350 |
| BOND BREAKERS | 350 |
| CONCRETE CURING COMPOUNDS | 350 |
| CONCRETE/MASONRY SEALERS | 100 |
| DRIVEWAY SEALERS | 50 |
| DRY FOG COATINGS | 150 |
| FAUX FINISHING COATINGS | 350 |
| FIRE RESISTIVE COATINGS | 350 |
| FLOOR COATINGS | 100 |
| FORM-RELEASE COMPOUNDS | 250 |
| GRAPHIC ARTS COATINGS (SIGN PAINTS) | 500 |
| | 420 |
| | 250 |
| | 120 |
| MAGNESITE CEMENT COATINGS MASTIC TEXTURE COATINGS | 450 |
| MASTIC TEXTORE COATINGS | 100 500 |
| MULTICOLOR COATINGS | 250 |
| PRETREATMENT WASH PRIMERS | 420 |
| PRIMERS, SEALERS, & UNDERCOATERS | 100 |
| REACTIVE PENETRATING SEALERS | 350 |
| RECYCLED COATINGS | 250 |
| ROOF COATINGS | 50 |
| RUST PREVENTATIVE COATINGS | 250 |
| SHELLACS | |
| CLEAR | 730 |
| OPAQUE | 550 |
| SPECIALTY PRIMERS, SEALERS & | 100 |
| UNDERCOATERS | 250 |
| STAINS STONE CONSOLIDANTS | 450 |
| STONE CONSOLIDANTS | 340 |
| TRAFFIC MARKING COATINGS | 100 |
| TUB & TILE REFINISH COATINGS | 420 |
| WATERPROOFING MEMBRANES | 250 |
| WOOD COATINGS | 275 |
| WOOD PRESERVATIVES | 350 |
| ZINC-RICH PRIMERS | 340 |
| GRAMS OF VOC PER LITER OF COATING, IN EXEMPT COMPOUNDS THE SPECIFIED LIMITS REMAIN IN EFFECT ARE LISTED IN SUBSEQUENT COLUMNS IN TH VALUES IN THIS TABLE ARE DERIVED FROM THE CALIFORNIA AIR RESOURCES BOARD, AF SUGGESTED CONTROL MEASURE, FEB. 1, 200 | UNLESS REVISED LIMIT IE TABLE. M THOSE SPECIFIED BY RCHITECTURAL COATIN |

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE 2016 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING VERIFICATION WITH THE FULL CODE.

| IT VOC LIMIT | | | | | | | |
|-----------------------------|-----------|--|--|--|--|--|--|
| npounds in Grams per Liter) | | | | | | | |
| | VOC LIMIT | | | | | | |
| | 250 | | | | | | |
| | 760 | | | | | | |
| | 300 | | | | | | |
| | 250 | | | | | | |
| | 450 | | | | | | |
| | 420 | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | 250 | | | | | | |
| | 775 | | | | | | |
| | 500 | | | | | | |
| | 760 | | | | | | |
| | 750 | | | | | | |
| | | | | | | | |

| MAXIMUM FORMAL PRODUCT HARDWOOD PLYW HARDWOOD PLYW PARTICLE BOARD MEDIUM DENSITY THIN MEDIUM DENSITY THIN MEDIUM DEN 1. VALUES IN THIS BY THE CALIF. AIR MEASURE FOR CO WITH ASTM E 1333 CODE OF REGULA 93120.12. 2. THIN MEDIUM D THICKNESS OF 5/1 | Y FIBERBOARD NSITY FIBERBOARD2 S TABLE ARE DERIVED FROM R RESOURCES BOARD, AIR T OMPOSITE WOOD AS TESTE 3. FOR ADDITIONAL INFORM ATIONS, TITLE 17, SECTIONS DENSITY FIBERBOARD HAS | RTS PER MILLION CURRENT LIMIT 0.05 0.05 0.09 0.11 0.13 M THOSE SPECIFIED TOXICS CONTROL D IN ACCORDANCE MATION, SEE CALIF. 93120 THROUGH | | 702 QUALIFICATIONS 702.1 INSTALLER TRAINING. HVAC system installe installation of HVAC systems including ducts and equipment by a certification program. Uncertified persons may perform HVAC insi responsibility of a person trained and certified to install HVAC syst Examples of acceptable HVAC training and certification programs 1. State certified apprenticeship programs. 2. Public utility training programs. |
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| MAXIMUM FORMAL PRODUCT HARDWOOD PLYW HARDWOOD PLYW PARTICLE BOARD MEDIUM DENSITY THIN MEDIUM DENSITY THIN MEDIUM DEN 1. VALUES IN THIS BY THE CALIF. AIR MEASURE FOR CO WITH ASTM E 1333 CODE OF REGULA 93120.12. 2. THIN MEDIUM D THICKNESS OF 5/1 | ALDEHYDE EMISSIONS IN PA NOOD VENEER CORE NOOD COMPOSITE CORE TIBERBOARD NSITY FIBERBOARD S TABLE ARE DERIVED FROM R RESOURCES BOARD, AIR T OMPOSITE WOOD AS TESTE 3. FOR ADDITIONAL INFORM ATIONS, TITLE 17, SECTIONS DENSITY FIBERBOARD HAS | RTS PER MILLION CURRENT LIMIT 0.05 0.05 0.09 0.11 0.13 M THOSE SPECIFIED TOXICS CONTROL D IN ACCORDANCE MATION, SEE CALIF. 93120 THROUGH | | INSTALLER & SPECIAL INSPECTOR 702 QUALIFICATIONS 702.1 INSTALLER TRAINING. HVAC system installer installation of HVAC systems including ducts and equipment by a certification program. Uncertified persons may perform HVAC insi responsibility of a person trained and certified to install HVAC syste Examples of acceptable HVAC training and certification programs 1. State certified apprenticeship programs. 2. Public utility training programs. 3. Training programs sponsored by trade, labor or statewic 4. Programs sponsored by manufacturing organizations. |
| PRODUCTHARDWOOD PLYWHARDWOOD PLYWPARTICLE BOARDMEDIUM DENSITYTHIN MEDIUM DENSITYTHIN MEDIUM DEN1. VALUES IN THISBY THE CALIF. AIRMEASURE FOR COWITH ASTM E 1333CODE OF REGULA93120.12.2. THIN MEDIUM DTHICKNESS OF 5/1 | WOOD VENEER CORE WOOD COMPOSITE CORE TIBERBOARD NSITY FIBERBOARD R RESOURCES BOARD, AIR T OMPOSITE WOOD AS TESTE 3. FOR ADDITIONAL INFORM ATIONS, TITLE 17, SECTIONS | CURRENT LIMIT 0.05 0.05 0.09 0.11 0.13 M THOSE SPECIFIED TOXICS CONTROL D IN ACCORDANCE MATION, SEE CALIF. 93120 THROUGH | | 702.1 INSTALLER TRAINING. HVAC system installer installation of HVAC systems including ducts and equipment by a certification program. Uncertified persons may perform HVAC instrustion program. Uncertified and certified to install HVAC systems including and certification programs. 1. State certified apprenticeship programs. 2. Public utility training programs. 3. Training programs sponsored by trade, labor or statewic 4. Programs sponsored by manufacturing organizations. |
| HARDWOOD PLYW PARTICLE BOARD MEDIUM DENSITY THIN MEDIUM DEN 1. VALUES IN THIS BY THE CALIF. AIR MEASURE FOR CO WITH ASTM E 1333 CODE OF REGULA 93120.12. 2. THIN MEDIUM D THICKNESS OF 5/1 | VOOD COMPOSITE CORE TIBERBOARD NSITY FIBERBOARD2 S TABLE ARE DERIVED FROM R RESOURCES BOARD, AIR T OMPOSITE WOOD AS TESTE 3. FOR ADDITIONAL INFORM ATIONS, TITLE 17, SECTIONS DENSITY FIBERBOARD HAS | 0.05 0.09 0.11 0.13 M THOSE SPECIFIED TOXICS CONTROL D IN ACCORDANCE MATION, SEE CALIF. 93120 THROUGH | | installation of HVAC systems including ducts and equipment by a certification program. Uncertified persons may perform HVAC instresponsibility of a person trained and certified to install HVAC syst Examples of acceptable HVAC training and certification programs 1. State certified apprenticeship programs. 2. Public utility training programs. 3. Training programs sponsored by trade, labor or statewic 4. Programs sponsored by manufacturing organizations. |
| PARTICLE BOARD MEDIUM DENSITY THIN MEDIUM DEN 1. VALUES IN THIS BY THE CALIF. AIR MEASURE FOR CO WITH ASTM E 1333 CODE OF REGULA 93120.12. 2. THIN MEDIUM D THICKNESS OF 5/1 | FIBERBOARD NSITY FIBERBOARD2 S TABLE ARE DERIVED FROM R RESOURCES BOARD, AIR T OMPOSITE WOOD AS TESTE 3. FOR ADDITIONAL INFORM ATIONS, TITLE 17, SECTIONS DENSITY FIBERBOARD HAS A | 0.09 0.11 0.13 M THOSE SPECIFIED FOXICS CONTROL D IN ACCORDANCE MATION, SEE CALIF. 93120 THROUGH | | responsibility of a person trained and certified to install HVAC syst Examples of acceptable HVAC training and certification programs 1. State certified apprenticeship programs. 2. Public utility training programs. 3. Training programs sponsored by trade, labor or statewid 4. Programs sponsored by manufacturing organizations. |
| MEDIUM DENSITY THIN MEDIUM DEN 1. VALUES IN THIS BY THE CALIF. AIR MEASURE FOR CO WITH ASTM E 1333 CODE OF REGULA 93120.12. 2. THIN MEDIUM D THICKNESS OF 5/1 | Y FIBERBOARD NSITY FIBERBOARD2 S TABLE ARE DERIVED FROM R RESOURCES BOARD, AIR T OMPOSITE WOOD AS TESTE 3. FOR ADDITIONAL INFORM ATIONS, TITLE 17, SECTIONS DENSITY FIBERBOARD HAS | 0.11 0.13 M THOSE SPECIFIED TOXICS CONTROL D IN ACCORDANCE MATION, SEE CALIF. 9 93120 THROUGH | | State certified apprenticeship programs. Public utility training programs. Training programs sponsored by trade, labor or statewic Programs sponsored by manufacturing organizations. |
| 1. VALUES IN THIS BY THE CALIF. AIR MEASURE FOR CO WITH ASTM E 1333 CODE OF REGULA 93120.12. 2. THIN MEDIUM D THICKNESS OF 5/1 | S TABLE ARE DERIVED FROM R RESOURCES BOARD, AIR T OMPOSITE WOOD AS TESTE 3. FOR ADDITIONAL INFORM ATIONS, TITLE 17, SECTIONS DENSITY FIBERBOARD HAS | M THOSE SPECIFIED TOXICS CONTROL D IN ACCORDANCE MATION, SEE CALIF. 93120 THROUGH |] | Public utility training programs. Training programs sponsored by trade, labor or statewic Programs sponsored by manufacturing organizations. |
| BY THE CALIF. AIR MEASURE FOR CO WITH ASTM E 1333 CODE OF REGULA 93120.12. 2. THIN MEDIUM D THICKNESS OF 5/1 | R RESOURCES BOARD, AIR T OMPOSITE WOOD AS TESTE 3. FOR ADDITIONAL INFORM ATIONS, TITLE 17, SECTIONS DENSITY FIBERBOARD HAS | TOXICS CONTROL D IN ACCORDANCE MATION, SEE CALIF. 93120 THROUGH | | |
| WITH ASTM E 1333 CODE OF REGULA 93120.12. 2. THIN MEDIUM D THICKNESS OF 5/1 | 3. FOR ADDITIONAL INFORM ATIONS, TITLE 17, SECTIONS DENSITY FIBERBOARD HAS | ATION, SEE CALIF. 93120 THROUGH | | |
| 93120.12. 2. THIN MEDIUM D THICKNESS OF 5/1 | DENSITY FIBERBOARD HAS | | | 702.2 SPECIAL INSPECTION [HCD]. When requir responsible entity acting as the owner's agent shall employ one or |
| THICKNESS OF 5/1 | | A MAXIMUM | | other duties necessary to substantiate compliance with this code. to the satisfaction of the enforcing agency for the particular type of |
| | | | | other certifications or qualifications acceptable to the enforcing age considered by the enforcing agency when evaluating the qualificat |
| | | | | 1. Certification by a national or regional green building pro |
| | | | | Certification by a statewide energy consulting or verifica performance contractors, and home energy auditors. Successful completion of a third party apprentice training |
| | ONMENTAL QUA | I ITY (continue | (he | Other programs acceptable to the enforcing agency. |
| 4.504.3 CARPET SYSTEMS. All carper requirements of at least one of the follow | et installed in the building interio | or shall meet the testing a | nd product | Notes: 1. Special inspectors shall be independent entities w |
| 1. Carpet and Rug Institute's Gr | Green Label Plus Program. | | | project they are inspecting for compliance with thi 2. HERS raters are special inspectors certified by the |
| | s from Indoor Sources Using Er | | | homes in California according to the Home Energ [BSC] When required by the enforcing agency, the owner or the re |
| February 2010 (also known a 3. NSF/ANSI 140 at the Gold le 4. Scientific Certifications Syste | evel. | | | employ one or more special inspectors to provide inspection or oth this code. Special inspectors shall demonstrate competence to the |
| 4. Scientific Certifications System 4. Scientific Certifications System 5. Scientifications System | _ | uilding interior shall meet t | he | particular type of inspection or task to be performed. In addition, the recognized state, national or international association, as determined |
| requirements of the Carpet and F | Rug Institute's Green Label pro | gram. | | shall be closely related to the primary job function, as determined |
| | | | | Note: Special inspectors shall be independent entities with project they are inspecting for compliance with this code. |
| Image: Constraint of the second state of the second sta | | is installed , at least 80% | or noor area receiving | 703 VERIFICATIONS |
| 1. Products compliant with the C Evaluation of Volatile Organic | California Department of Public ic Chemical Emissions from Ind | | | 703.1 DOCUMENTATION. Documentation used to sho |
| Version 1.1, February 2010 (| (also known as Specification 01 Performance Schools (CHPS) | 350), certified as a CHPS | Low-Emitting Material | limited to, construction documents, plans, specifications, builder or methods acceptable to the enforcing agency which demonstrate su documentation or special inspection is necessary to verify complia |
| 2. Products certified under UL C 3. Certification under the Resilie | ient Floor Covering Institute (RF | CI) FloorScore program. | , | the appropriate section or identified applicable checklist. |
| | missions from Indoor Sources l | Method for the Testing an Jsing Environmental Char | d Evaluation of nbers", Version 1.1, | |
| February 2010 (also known a | . , , | cleboard and medium der | sity fiberboard | |
| composite wood products used on the i formaldehyde as specified in ARB's Air | interior or exterior of the buildin | gs shall meet the requirer | nents for | |
| by or before the dates specified in those | | | | |
| 4.504.5.1 Documentation. Verify by the enforcing agency. Documentation | | | as requested | |
| 1. Product certifications a 2. Chain of custody certif | | | | |
| 3. Product labeled and in CCR, Title 17, Section | nvoiced as meeting the Compos n 93120, et seq.). | - | · | |
| Wood Association, the | ts marked as meeting the PS-1 e Australian AS/NZS 2269, Euro | opean 636 3S standards, a | Engineered and Canadian CSA | |
| | A 0153 and CSA 0325 standard table to the enforcing agency. | S. | | |
| 4.505 INTERIOR MOISTURE 4.505.1 General. Buildings shall meet | E CONTROL | California Building Stand | ards Code | |
| 4.505.2 CONCRETE SLAB FOUNDAT | · | · · · | | |
| California Building Code, Chapter 19, o California Residential Code, Chapter 5, | or concrete slab-on-ground floor | rs required to have a vapo | | |
| 4.505.2.1 Capillary break. A ca | apillary break shall be installed i | in compliance with at least | one of the | |
| following: | hick base of 1/2 inch (12.7mm) | or larger clean aggregate | shall be provided with | |
| a vapor barrier in direc | ct contact with concrete and a c g, shall be used. For additional | concrete mix design, which | will address bleeding, | |
| | nods approved by the enforcing | | | |
| | ed by a licensed design profession | | no of water demoge | |
| Image: Constant of the second seco | aming shall not be enclosed whe | en the framing members e | xceed 19 percent | |
| 1. Moisture content shall be dete | termined with either a probe-typ | be or contact-type moisture | | |
| found in Section 101.8 of this | | | | |
| Moisture readings shall be ta of each piece verified. At least three random moisture | | . , | | |
| acceptable to the enforcing a | agency provided at the time of a | approval to enclose the wa | all and floor framing. | |
| Insulation products which are visibly we enclosure in wall or floor cavities. Wet- | | | | |
| recommendations prior to enclosure. | | | | |
| 4.506 INDOOR AIR QUALIT 4.506.1 Bathroom exhaust fans. Each following: | ch bathroom shall be mechanica | ally ventilated and shall co | mply with the | |
| 1. Fans shall be ENERGY STAF | | | | |
| 2. Unless functioning as a comp humidity control. | | | | |
| a. Humidity controls shall | Il be capable of adjustment betw ximum of 80%. A humidity cont | veen a relative humidity ra | inge less than or | |
| adjustment. | ximum of 80%. A humidity cont | - | | |
| integral (i.e., built-in) | - , | | | |
| Notes: | | anderstand and the state | | |
| tub/shower combinatio | his section, a bathroom is a roon on. throom exhaust fans shall comp | | | |
| 4.507 ENVIRONMENTAL CO | OMFORT | | | |
| 4.507 EINVINCINITIENTAL CO 4.507.2 HEATING AND AIR-CONDITION sized, designed and have their equipme | IONING SYSTEM DESIGN. He | | systems shall be | |
| 1. The heat loss and heat gain is | is established according to ANS | , SI/ACCA 2 Manual J - 201 | | |
| 2. Duct systems are sized accord | | D - 2014 (Residential Duo | | |
| 3. Select heating and cooling ed | er equivalent design software or equipment according to ANSI/A0 ner equivalent design software o | CCA 3 Manual S - 2014 (R | esidential | |
| Exception: Use of alternate des | | | ons are | |
| acceptable. | - | | | |
| CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AI | | | | |

R & SPECIAL INSPECTOR QUALIFICATIONS FICATIONS

ER TRAINING. HVAC system installers shall be trained and certified in the proper systems including ducts and equipment by a nationally or regionally recognized training or Uncertified persons may perform HVAC installations when under the direct supervision and rson trained and certified to install HVAC systems or contractor licensed to install HVAC systems. able HVAC training and certification programs include but are not limited to the following:

rograms sponsored by trade, labor or statewide energy consulting or verification organizations. sponsored by manufacturing organizations. rams acceptable to the enforcing agency.

L INSPECTION [HCD]. When required by the enforcing agency, the owner or the cting as the owner's agent shall employ one or more special inspectors to provide inspection or y to substantiate compliance with this code. Special inspectors shall demonstrate competence the enforcing agency for the particular type of inspection or task to be performed. In addition to qualifications acceptable to the enforcing agency, the following certifications or education may be forcing agency when evaluating the qualifications of a special inspector:

by a national or regional green building program or standard publisher. n by a statewide energy consulting or verification organization, such as HERS raters, building ce contractors, and home energy auditors. I completion of a third party apprentice training program in the appropriate trade.

cial inspectors shall be independent entities with no financial interest in the materials or the ect they are inspecting for compliance with this code. S raters are special inspectors certified by the California Energy Commission (CEC) to rate nes in California according to the Home Energy Rating System (HERS).

d by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall special inspectors to provide inspection or other duties necessary to substantiate compliance with spectors shall demonstrate competence to the satisfaction of the enforcing agency for the pection or task to be performed. In addition, the special inspector shall have a certification from a tional or international association, as determined by the local agency. The area of certification ted to the primary job function, as determined by the local agency.

nspectors shall be independent entities with no financial interest in the materials or the e inspecting for compliance with this code.

CATIONS

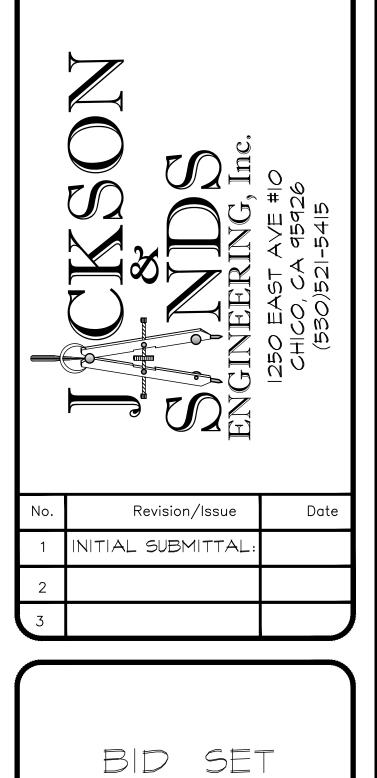
IENTATION. Documentation used to show compliance with this code shall include but is not ion documents, plans, specifications, builder or installer certification, inspection reports, or other to the enforcing agency which demonstrate substantial conformance. When specific becial inspection is necessary to verify compliance, that method of compliance will be specified in ion or identified applicable checklist.

General Notes

JACKSON AND SANDS ENGINEERING HAS PROVIDED THESE PLANS SOLELY FOR THE USE FOR THE PROJECT SPECIFIED ON THESE PLANS & DOES NOT REPRESENT THAT THESE PLANS ARE SUITABLE FOR ANY OTHER SITE WEATHER MODIFIED OR NOT.

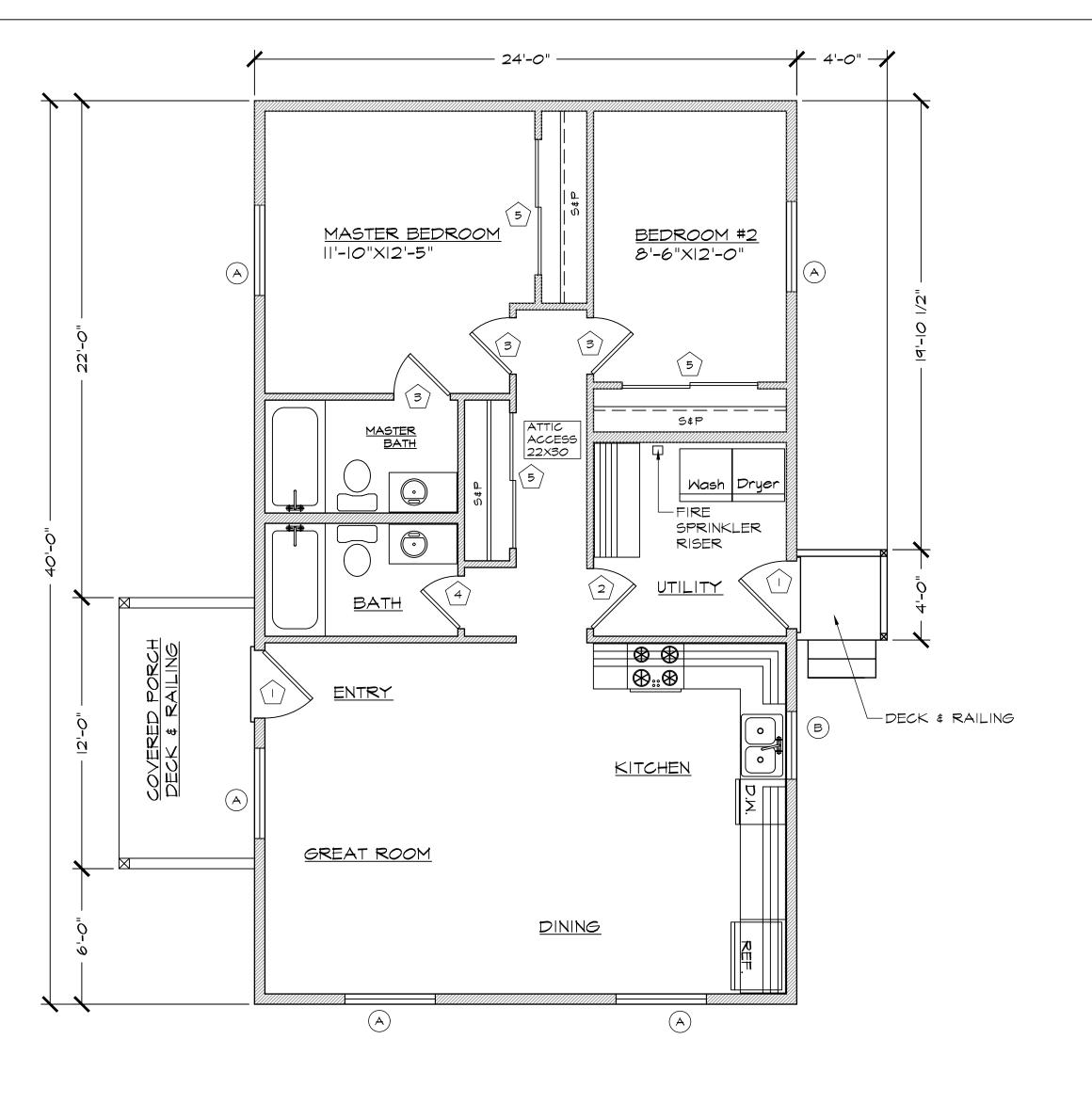
Network





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| Project | |
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| Date | 09/02/21 |
| Scale 🗡 | S NOTED |

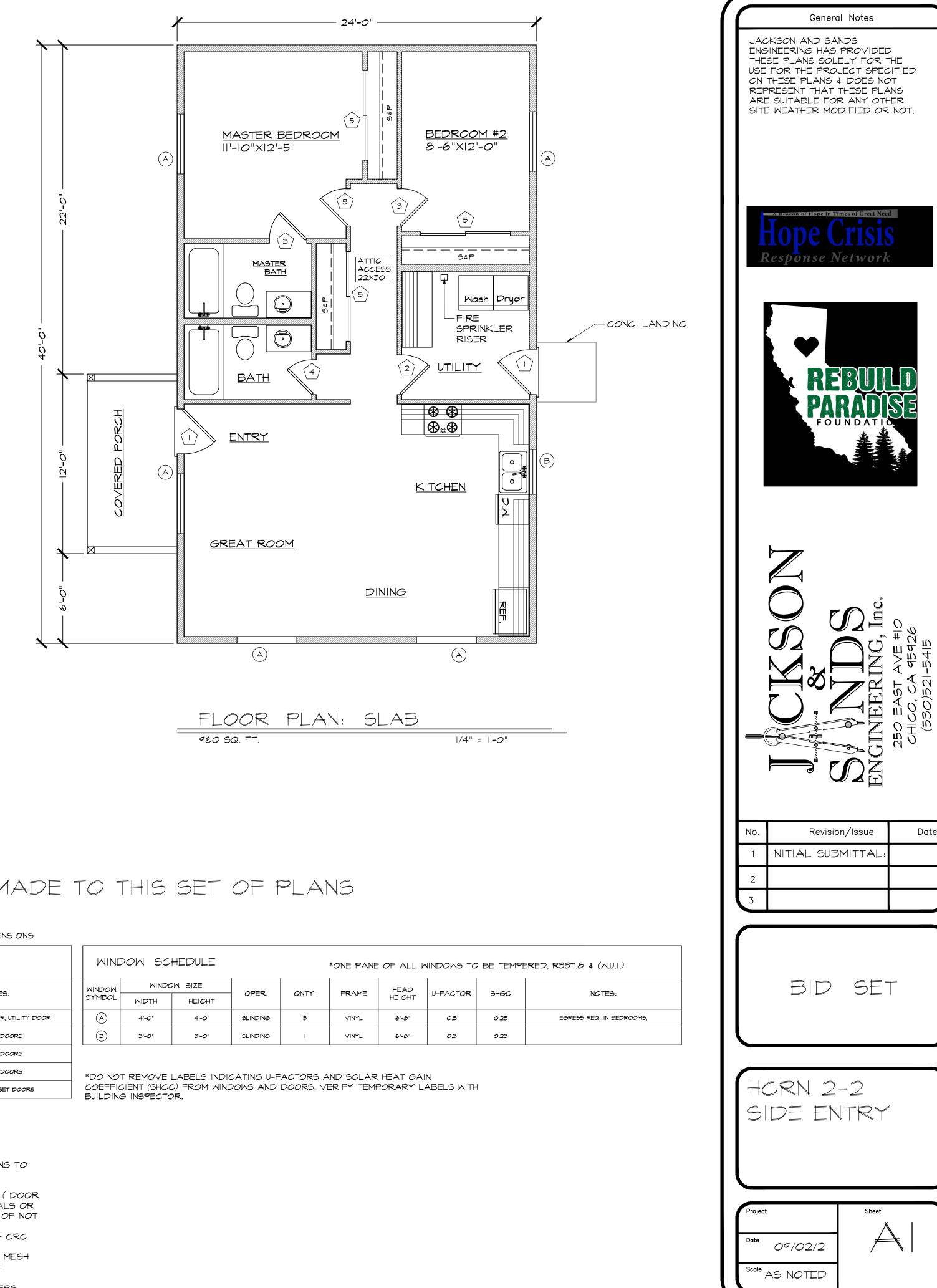


FLOOR PLAN: RAISED 960 SQ. FT.

FLOOR PLAN NOTES:

- I. AUTOMATIC FIRE SPRINKLERS ARE REQUIRED THROUGHOUT THE RESIDENCE. FIRE SPRINKLERS SHALL BE DESIGNED BY A CALIFORNIA CONTRACTOR CLASSIFICATION C-IG. FIRE SPRINKLER SHALL BE REQUIRED IF THE PRIMARY RESIDENCE HAS FIRE SPRINKLERS
- 2. EXTERIOR WALLS TO BE 2X6 DF NO. 2 STUDS AT 16" O.C. WITH R-21 INSULATION. SIDING/ SHEAR AS SHOWN ON.
- 3. INTERIOR WALLS TO BE 2X4 DF NO.2 STUDS AT 16" O.C.
- 4. TYPICAL WALL HEIGHT IS 9'.
- 5. NO OPENING SHALL BE PERMITTED IN THE EXTERIOR WALLS, INCLUDING VENTS, OF GROUP R-3 OCCUPANCIES WHERE THE EXTERIOR WALL IS CLOSER THAN 5FT FROM PROPERTY LINE 2019 CRC TABLE R302.1(1) AND TABLE R302.1(2)
- 6. LISTED INSTALLATION INSTRUCTION OR MANUALS SHALL BE ON SITE AND AVAILABLE FOR PLUMBING, MECHANICAL, ELECTRICAL EQUIPMENT OR OTHER INSTALLATIONS DURING FIELD INSPECTION OF SPECIFIC APPLIANCES OR FEATURES.
- 7. RODENT PROOFING AND INSECT INTRUSION PROTECTION. ANNULAR SPACES AROUND PIPES, ELECTRICAL CABLE CONDUITS OR OTHER OPENINGS IN BOTTOM/SOLE PLATE AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS IN ACCORDANCE WITH THE 2019 CALGREEN BUILDING CODE, CHAPTER 4. DIVISION 4.4 CEMENT MORTAR, CONCRETE MASONRY OR A SIMILAR METHOD ACCEPTABLE BY THE ENFORCING AGENCY. METHOD ACCEPTABLE BY THE CITY OF CHICO BUILDING DIVISION WOULD BE LOW VOC CAULKING WITH NON-COMBUSTIBLE FILLING MATERIAL
- 8. PORTIONS OF THE PLAN CLOSER TO THE PROPERTY LINE THAN THE DISTANCES SPECIFIED IN CRC TABLE 302.1(1) OR IF APPLICABLE, 2019 CRC TABLE 302.1(2), SHALL REQUIRE A CONSTRUCTION OF A LISTED I-HOUR FIREWALL ASSEMBLY SEPARATION OR OTHER APPROVED METHOD SPECIFIED IN THIS CODE. THE COMPLIANCE MEANS SHALL BE PROVIDED WITH THE SITE PLAN AT TIME OF APPLICATION. THIS MAY REQUIRE ADDITIONAL PLAN DESIGN BY A CALIFORNIA REGISTERED DESIGN PROFESSIONAL FOR EMERGENCY EGRESS, AND, LIGHT AND VENTILATION.
- 9. ATTIC ACCESS OPENINGS WITH MIN. SIZE OF 22"X30" CRC R807.1

| DOC | OR SCHE | EDULE | | | | | | |
|-------------------|---------|-----------|--------|----------------|--------|------------|-------|---------------------------|
| DOOR SYMBOL WI | | DOOR SIZE | | DOOR | C 075 | | | NOTEC |
| | WIDTH | HEIGHT | THICK | TYPE | CORE | MATERIAL | FRAME | NOTES: |
| (1) | 3'-0" | 6'-8" | 1-3/4" | SINGLE DOOR | SOLID | WOOD/GLASS | WOOD | FRONT ENTRY DOOR, UTILITY |
| 2 | 2'-8" | 6'-8" | 1-3/4" | SINGLE DOOR | HOLLOW | WOOD | WOOD | INTERIOR DOORS |
| 3 | 2'-6" | 6'-8" | 1-3/4" | SINGLE DOOR | HOLLOW | WOOD | WOOD | INTERIOR DOORS |
| 4 | 2'-4" | 6'-8" | 1-3/4" | SINGLE DOOR | HOLLOW | WOOD | WOOD | INTERIOR DOORS |
| 5 | 3'-0" | 6'-8" | -3/4" | SINGLE DOOR | SOLID | METAL | WOOD | BI PASS CLOSET DOORS |
| | | | | | | | | |



W.U.I NOTES:

|/4" = |'-0"

*NO ALTERATIONS SHALL BE MADE TO THIS SET OF PLANS

*SEE FRAMING PLAN, PG. A5, FOR ADDITIONAL DIMENSIONS

| MINI | DOW SC | | | * | |
|--------|-------------|---------|----------|-------|--|
| WINDOW | WINDO | DW SIZE | | | |
| SYMBOL | WIDTH | HEIGHT | OPER. | QNTY. | |
| A | 4'-0" 4'-0" | | SLINDING | 5 | |
| В | 3'-0" | 3'-0" | SLINDING | I | |

THIS PROJECT SHALL COMPLY WITH THE REQUIREMENTS OF 2019 CRC SECTION R337

2. ONE PANE OF ALL WINDOWS TO BE TEMPERED, R337.8

3. DECKING MATERIAL TO BE IN ACCORDANCE WITH CRC SECTION R337.9 4. UNDER-FLOOR PROTECTION IN ACCORDANCE WITH CRC SECTION R337.7.8

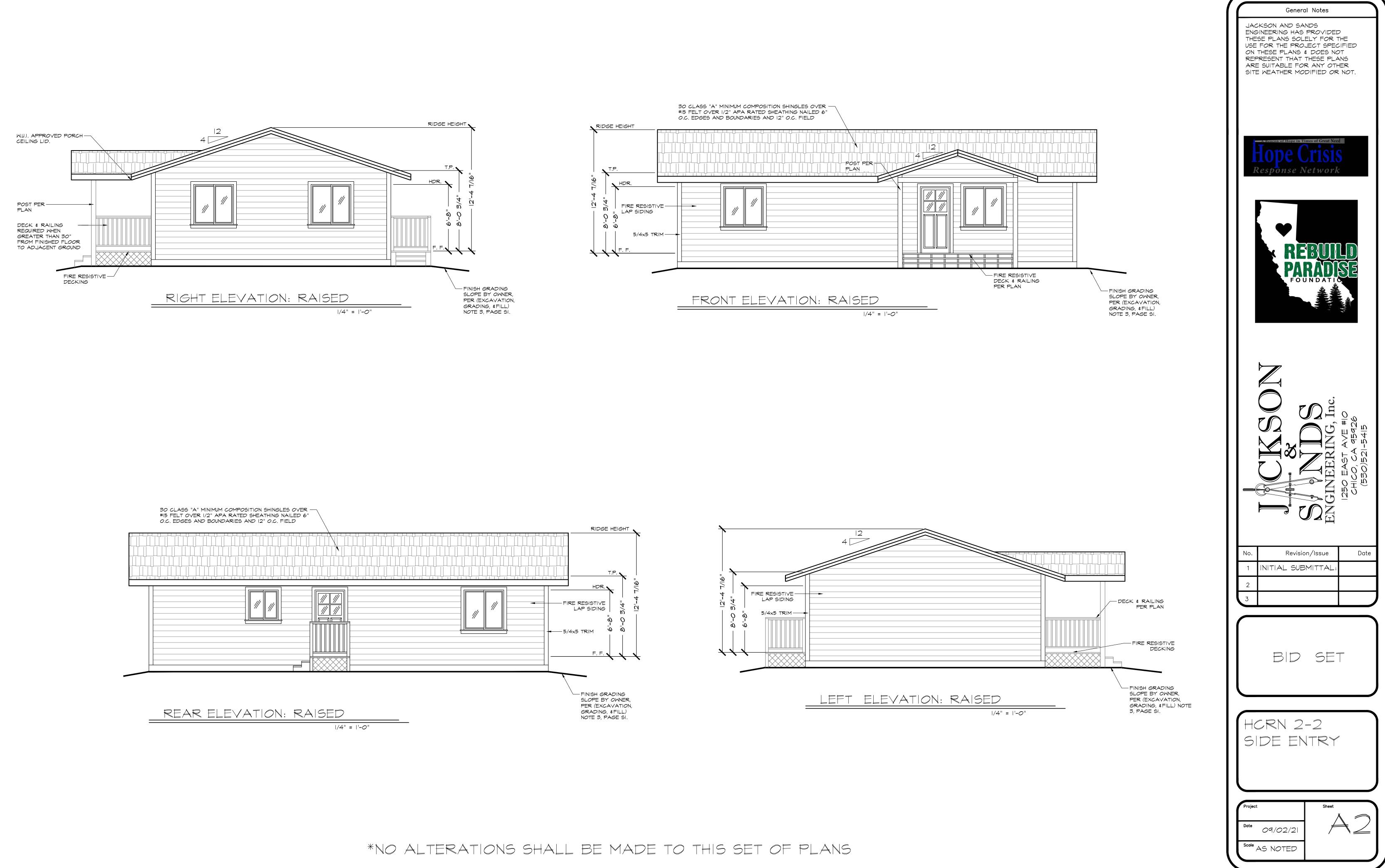
5. ROOF GUTTERS SHALL BE OF NON COMBUSTIBLE MATERIALS AND PROVIDED WITH THE MEANS TO PREVENT THE ACCUMULATION OF LEAVES AND DEBRIS.

6. EAVE AND SOFFIT VENTS SHALL BE IGNITION RESISTANT OR NON-COMBUSTIBLE MATERIAL

7. EXTERIOR DOORS SHALL BE FIRE RESISTIVE IN ACCORDANCE WITH CRC SECTION R337.8.3. (DOOR SHALL HAVE AN EXTERIOR SURFACE OF NONCOMBUSTIBLE OR IGNITION-RESISTANT MATERIALS OR BE CONSTRUCTED OF SOLID CORE WOOD 1-3/8" THICK OR HAVE A FIRE-RESISTIVE RATING OF NOT LESS THAN 20-MINUTES.)

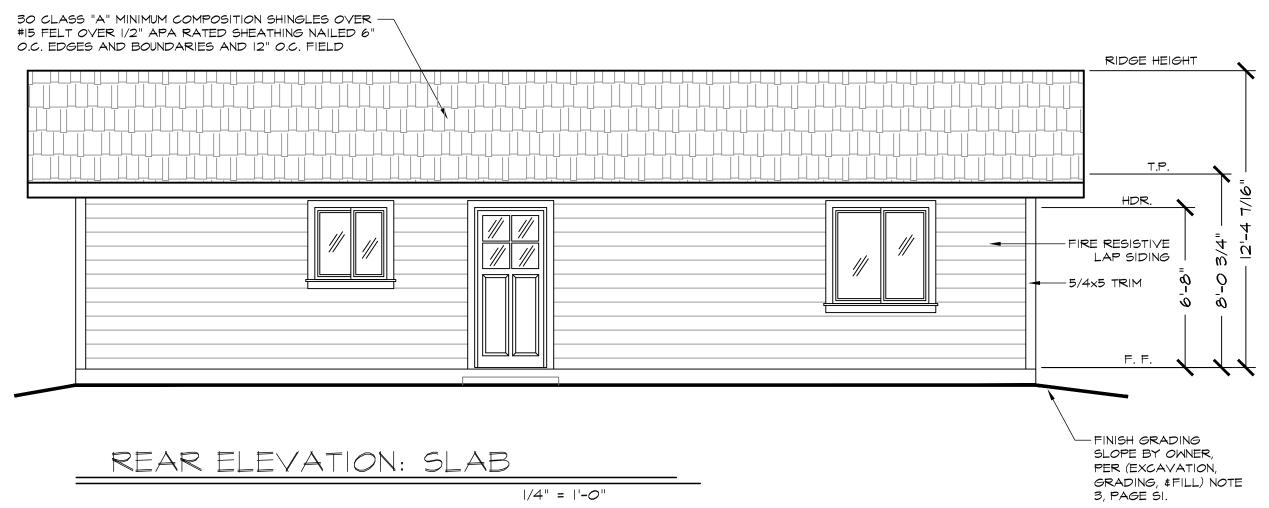
8. IGNITION RESISTANT OR NON-COMBUSTIBLE EXTERIOR PORCH CEILING IN ACCORDANCE WITH CRC SECTION R 337.7.6 9. GABLE ATTIC VENTS AND FOUNDATION VENTS SHALL BE FULLY COVERED WITH METAL WIRE MESH

OR NONCOMBUSTIBLE MATERIALS WITH MINIMUM OPENINGS OF 16" AND SHALL NOT EXCEED 5" OPENINGS IN COMPLIANCE WITH CRC SECTION R337.6.2 IO. EAVE VENTS SHALL BE APPROVED TO RESIST THE INTRUSION OF FLAME AND BURNING EMBERS.



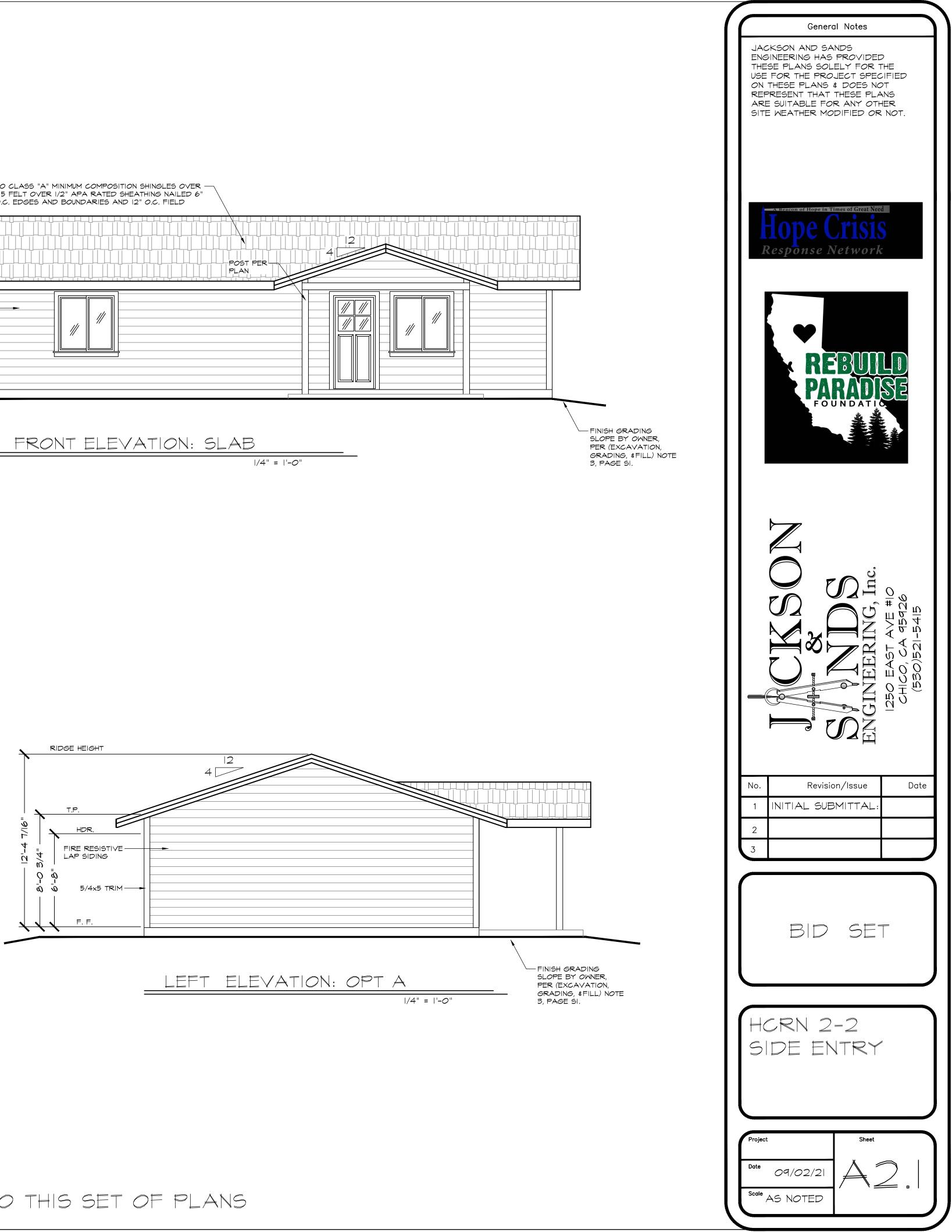


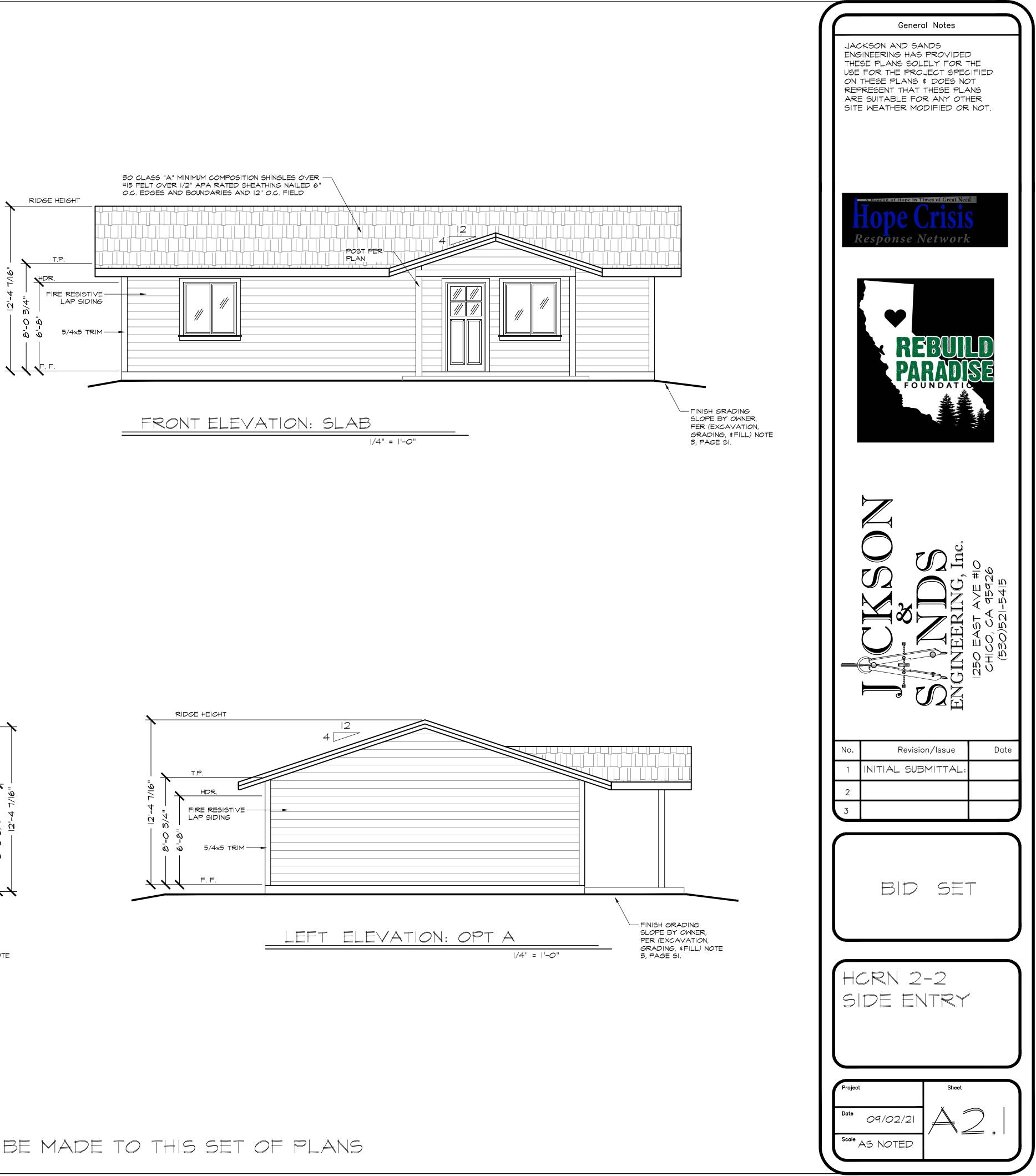
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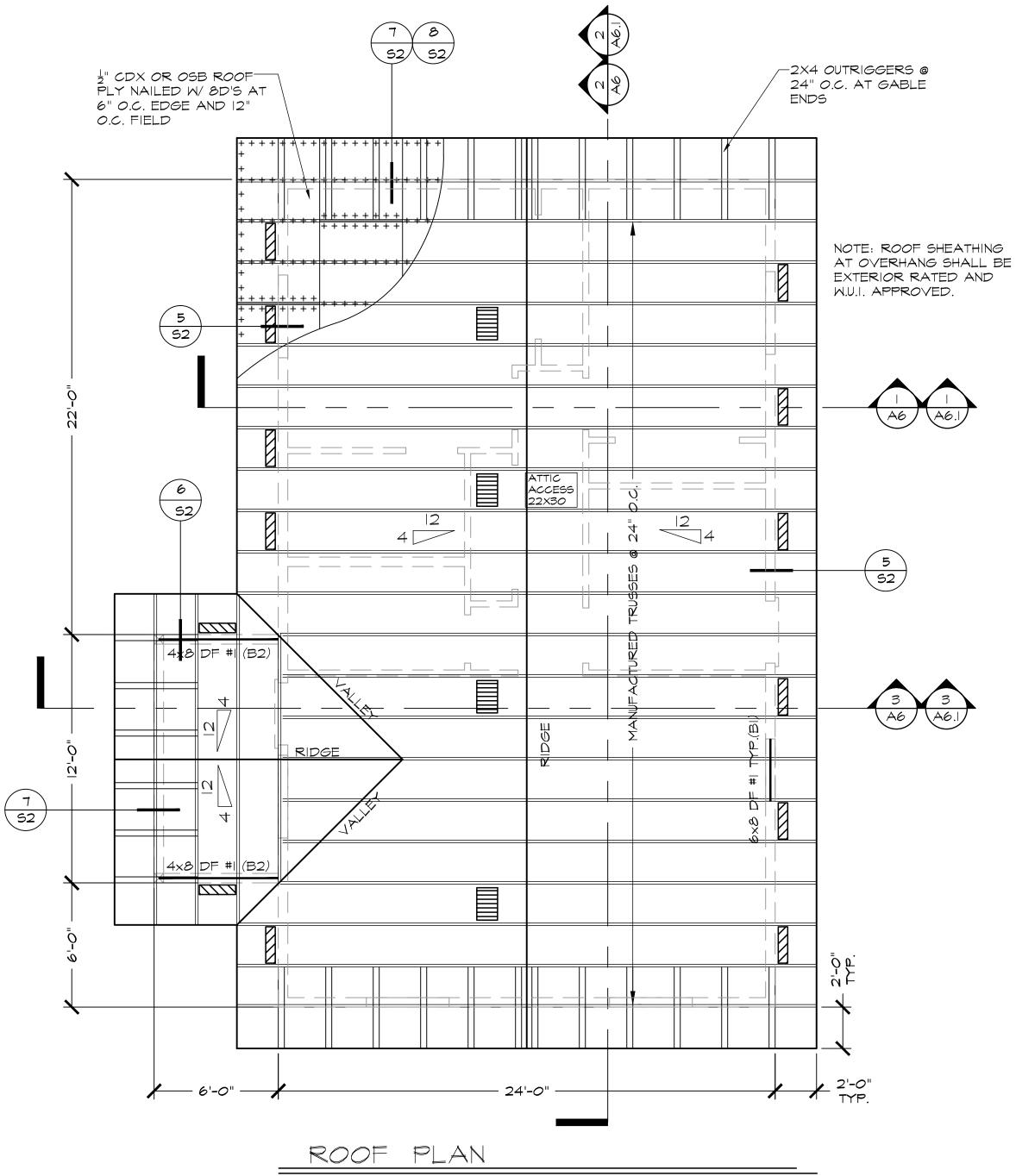
|/4" = |'-0"







- FINISH GRADING SLOPE BY OWNER, PER (EXCAVATION, GRADING, &FILL) NOTE 3, PAGE SI.





| DESCRIPTION | SQUARE | REQUIREMENT | VALUE | PROPOSED | SYMBOL | | # √ENTS | |
|-------------------|---------|-------------|---------------------------------------------|-----------------------------------------|--------|------------------------|---------|-----------------------|
| | FOOTAGE | | | VENT | | AREA/ VENT | | PROVIDE |
| ATTIC SPACE TOTAL | 1,032 | 1/150 | 6.88 FT ² 990 IN ² | | | | | |
| LOWER VENT | | 1/300 | 3.44 FT ² 495 IN ² | VULCAN VE3522 | | 41 IN ² /LF | 13 LF | 533 IN |
| UPPER VENTS | | 1/300 | 3.44 FT ² 495 IN ² | VULCAN HALF ROUND DORMER VDHR1224 | | 147 IN ² | 4 | 588 IN |
| | | | | | | | | |
| | | | | | | | TOTAL= | 1,121 IN ² |

|/4" = |'-0"

TRUSS NOTES:

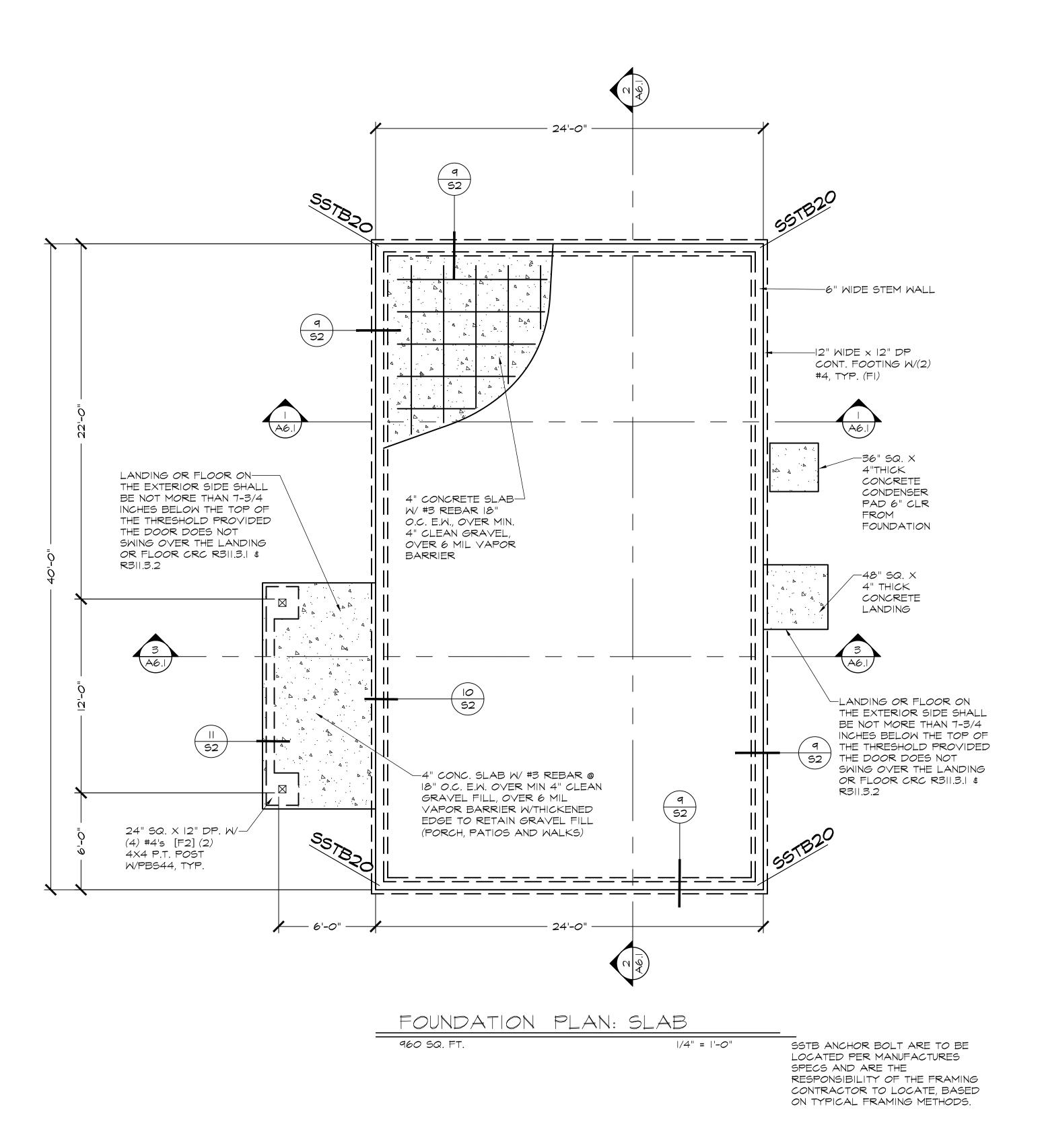
- 30 PSF SNOW LOAD
- 2. ADD 3 PSF FOR SOLAR PANELS 3. 30 YEAR COMP ROOFING OVER 15# FLET OVER $\frac{1}{2}$ " APA RATED SHEATHING NAILED WITH 8d NAILS @ 6" O.C. EDGES AND BOUNDARY AND 12" O.C. FIELD U.O.N.
- 4. OVERHAND TO VARY AS NEEDED
- 5. EXTERIOR WALL PLATE HEIGHT TO BE 9'-03/4" U.O.N. 6. ATTIC ACCESS LOCATION IS APPROXIMATE AND INTENDED TO BE IN THIS AREA FOR GENERAL CONCEALMENT FROM VIEW.
- 7. F.A.U. LOCATION SHOWN IS APPROXIMATE AND INTENDED TO BE IN THE GENERAL AREA NEAR ATTIC ACCESS AND NOT OVER KITCHEN AREA.

NOTES:

- I. ALL HEADERS TO BE 6X8 DF NO.I U.N.O 2. ROOF TERMINATION EACH VENT PIPE OR STACK SHALL EXTEND THROUGH ITS FLASHING AND SHALL TERMINATE VERTICALLY NOT LESS THAN 6"
- INCHES ABOVE THE ROOF NO LESS THAN I' FOOT A VERTICAL SURFACE. 3. EACH VENT SHALL TERMINATE NOT LESS THAN 10' FEET FROM, OR NOT LESS THAN 3' FEET ABOVE, AN OPENABLE WINDOW, DOOR, OPENING, AIR INTAKE OR VENT SHAFT, OR LESS THAN 3' FEET FOR A LOT LINE, ALLEY
- AND STREET EXCEPTED. 4. ABS AND PVC PIPING EXPOSED TO SUNLIGHT SHALL BE PROTECTED BY WATER BASED SYNTHETIC LATEX PAINT.
- 3. 30 YEAR COMP ROOFING OVER 15# FLET OVER $\frac{1}{2}$ " APA RATED SHEATHING NAILED WITH 80 NAILS @ 6" O.C. EDGES AND BOUNDARY AND 12" O.C. FIELD U.O.N.
- 4. OVERHANG TO VARY AS NEEDED 5. EXTERIOR WALL PLATE HEIGHT TO BE 8'-03/4" U.O.N.
- 6. ATTIC ACCESS LOCATION IS APPROXIMATE AND INTENDED TO BE IN THIS AREA FOR GENERAL CONCEALMENT FROM VIEW. 7. F.A.U. LOCATION SHOWN IS APPROXIMATE AND INTENDED TO BE IN THE
- GENERAL AREA NEAR ATTIC ACCESS AND NOT OVER KITCHEN AREA. 8. FLASHING SHALL BE INSTALLED IN A MANNER THAT PREVENTS MOISTURE FROM ENTERING THE WALL AND ROOF THROUGH JOINTS IN COPINGS, THROUGH MOISTURE PERMEABLE MATERIALS AND AT INTERSECTIONS WITH PARAPET WALLS AND OTHER PENETRATIONS THROUGH THE ROOF PLANE.
- 9. FLASHING SHALL BE INSTALLED AT WALL AND ROOF INTERSECTIONS, WHEREVER THERE IS A CHANGE IN ROOF SLOPE OR DIRECTION AND AROUND ROOF OPENINGS. A FLASHING SHALL BE INSTALLED TO DIVERT THE WATER AWAY FROM WHERE THE EAVE OF A SLOPED ROOF INTERSECTS A VERTICAL SIDEWALL. WHERE FLASHING IS OF METAL, THE METAL SHALL BE CORROSION RESISTANT WITH A THICKNESS OF NOT LESS THAN O.OI9 INCH NO. 26 GALVANIZED SHEET.
- IO. WHERE VALLEY FLASHING IS INSTALLED, THE FLASHING SHALL BE NOT LESS THAN O.OI9 INCH NO. 26 GALVANIZED SHEET CORROSION-RESISTANT METAL INSTALLED OVER NOT LESS THAN ONE LAYER OF MINIMUM 72-POUND MINERAL-SURFACED NONPERFORATED CAP SHEET COMPLYING WITH ASTM D3909, AT LEAST 36-INCH-WIDE RUNNING THE FULL LENGTH OF THE VALLEY.

JACKSON AND SANDS ENGINEERING HAS PROVIDED THESE PLANS SOLELY FOR THE USE FOR THE PROJECT SPECIFIED ON THESE PLANS & DOES NOT REPRESENT THAT THESE PLANS ARE SUITABLE FOR ANY OTHER SITE WEATHER MODIFIED OR NOT. n of Hope in Times of Great Need esp<mark>o</mark>nse Network **D**A EE Revision/Issue Date 1 INITIAL SUBMITTAL 3 BID SET HGRN 2=2SIDE ENTRY Project Sheet Date 09/02/21 Scale AS NOTED

General Notes



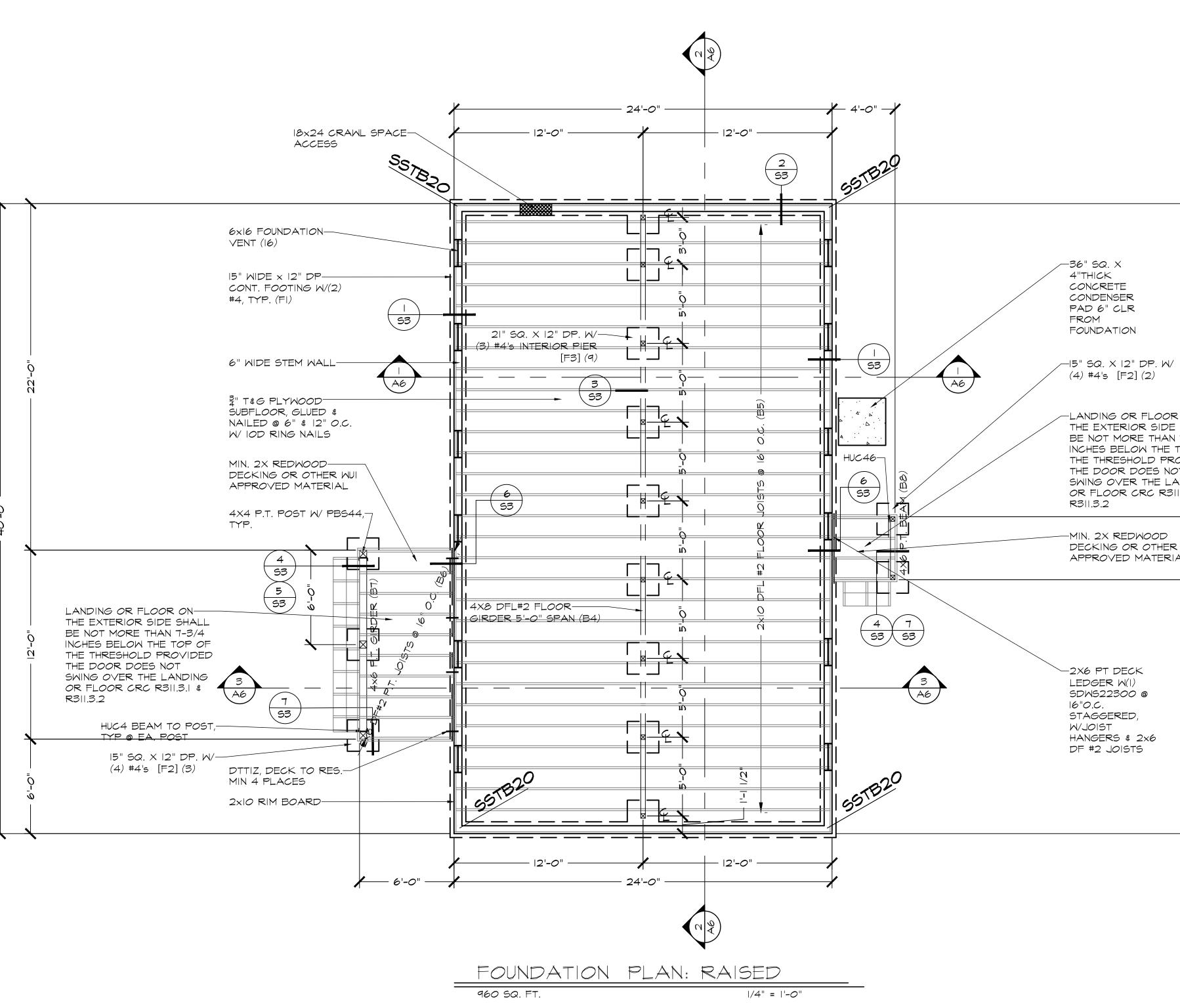
General Notes

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| (| | U V V I U U ENGINEERING, Inc. | 1250 EAST AVE #10 CHICO, CA 95926 (530)521-5415 | | | | | |
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| Project Date Scale | 09/02/21 | Sheet | 44 | | | | | |



| FLOOR VENT * EQUIVALEN | |
|---------------------------|--|
| DESCRIPTION | |
| CRAWL SPACE TOTAL | |
| | |
| | |

| LATION CALCULATION T MEANS OF ACHIEVING VENT AREA ARE ACCEPTABLE. | | | | | | | | | | | | |
|----------------------------------------------------------------------|-------------|--------------------------------------------|---------------------------|------------------------|---------|-----------------------------|--|--|--|--|--|--|
| SQUARE F <i>OO</i> TAGE | REQUIREMENT | VALUE | PROPOSED VENT | NET VENT AREA/ VENT | # VENTS | IN ² PROVIDED | | | | | | |
| 960 | 1/150 | 6.4 FT ² 921 IN ² | 6× 6" | 49 IN ² | 12 | 588 IN ² | | | | | | |
| | | | I&X24" SCREENED ACCESS | 350 IN ² | | 350 IN ² | | | | | | |
| | | | | | TOTAL= | 938 IN ² | | | | | | |

SSTB ANCHOR BOLT ARE TO BE LOCATED PER MANUFACTURES SPECS AND ARE THE RESPONSIBILITY OF THE FRAMING CONTRACTOR TO LOCATE, BASED ON TYPICAL FRAMING METHODS.

General Notes JACKSON AND SANDS ENGINEERING HAS PROVIDED THESE PLANS SOLELY FOR THE USE FOR THE PROJECT SPECIFIED ON THESE PLANS & DOES NOT REPRESENT THAT THESE PLANS ARE SUITABLE FOR ANY OTHER SITE WEATHER MODIFIED OR NOT. eacon of Hope in Times of Great Need esponse Network RERU ranadiði FOUNDAT -LANDING OR FLOOR ON THE EXTERIOR SIDE SHALL BE NOT MORE THAN 7-3/4 INCHES BELOW THE TOP OF THE THRESHOLD PROVIDED THE DOOR DOES NOT SWING OVER THE LANDING OR FLOOR CRC R311.3.1 \$ DECKING OR OTHER WUI APPROVED MATERIAL \mathbf{O} 7 \simeq Ţ ۲_T Date Revision/Issue INITIAL SUBMITTAL SET BID HGRN 2=2SIDE ENTRY Project Sheet Date 09/02/21 \leq

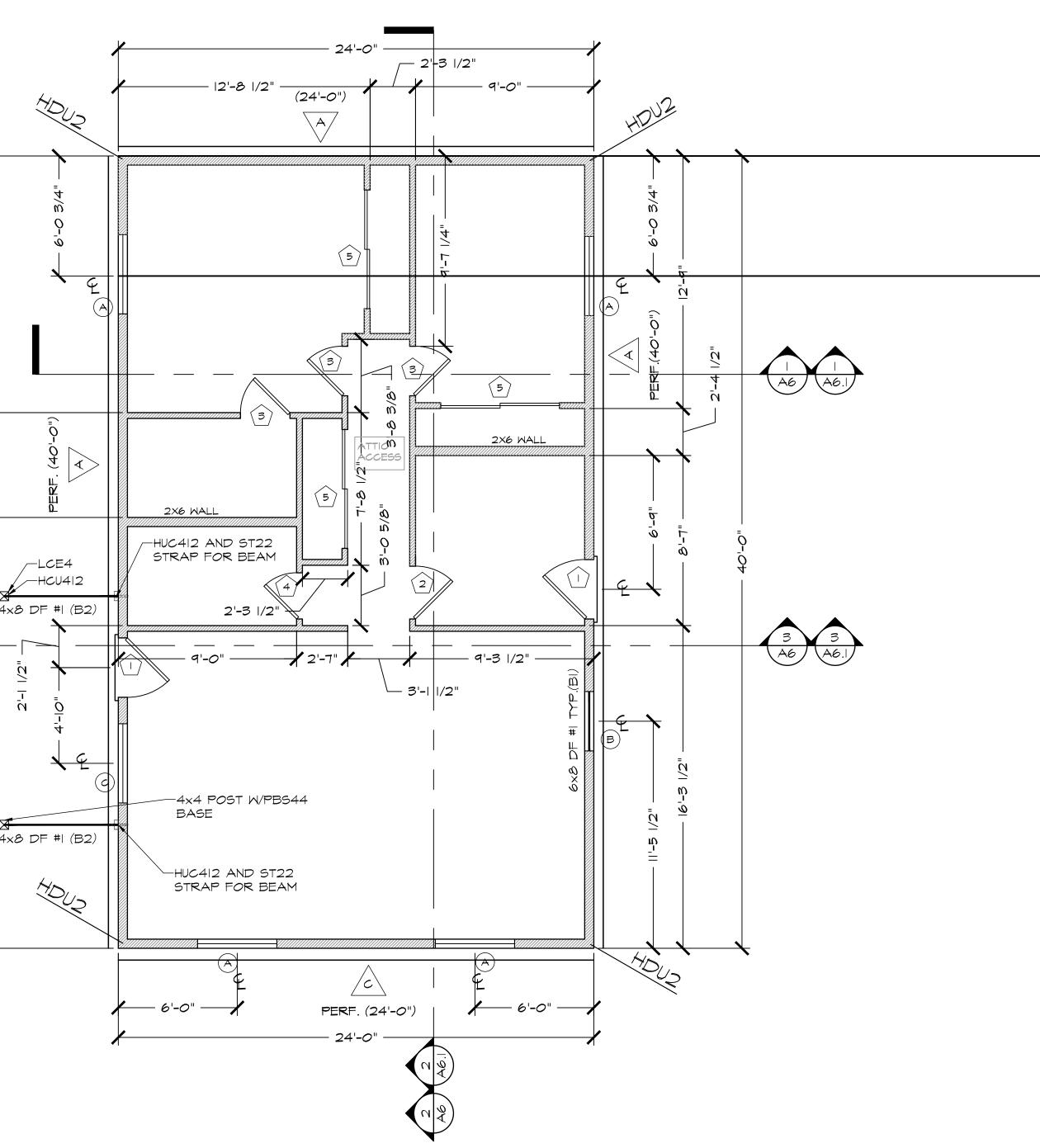
Scale AS NOTED

| SHEAR WALL SCHEDULE |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A WALL SYSTEM STRENGTH: 173 PLF SEISMIC |
| 3/8" STRUCTURAL WOOD PANELS (BLOCKED) |
| NAILING: 8d (COMMON OR HOT DIPPED GALVANIZED) |
| 6" O.C. @ EDGES 12" O.C. @ FIELD |
| 1/2" ϕ Anchor Bolt spacing 72" W/ 2X P.T. Sill |
| SIMPSON A35 SHEAR TRANSFER @ 36" O.C. SILL SHEAR TRANSFER NAILING 16d @ 6" O.C. (COMMON, BOX OR SINKER) |
| B WALL SYSTEM STRENGTH: 260 PLF SEISMIC 260 PLF WIND |
| 3/8" STRUCTURAL WOOD PANELS (BLOCKED) |
| NAILING: 8d (COMMON OR HOT DIPPED GALVANIZED) |
| 6" O.C. @ EDGES 12" O.C. @ FIELD |
| 1/2"\$ ANCHOR BOLT SPACING 48" W/ 2X P.T. SILL |
| SIMPSON A35 SHEAR TRANSFER @ 27" O.C. SILL SHEAR TRANSFER NAILING 16d @ 6" O.C. (COMMON, BOX OR SINKER) |
| WALL SYSTEM STRENGTH: 260 PLF SEISMIC 346 PLF WIND |
| 3/8" STRUCTURAL WOOD PANELS (BLOCKED) |
| NAILING: 8d (COMMON OR HOT DIPPED GALVANIZED) |
| 6" O.C. @ EDGES 12" O.C. @ FIELD |
| 1/2"\$ ANCHOR BOLT SPACING 36" W/ 2X P.T. SILL |
| SIMPSON A35 SHEAR TRANSFER @ 18" O.C. SILL SHEAR TRANSFER NAILING 16d @ 4" O.C. (COMMON, BOX OR SINKER) |
| WALL SYSTEM STRENGTH: 390 PLF SEISMIC SEE NOTE I 520 PLF WIND |
| 3/8" STRUCTURAL WOOD PANELS (BLOCKED) |
| NAILING: 8d (COMMON OR HOT DIPPED GALVANIZED) |
| 4" O.C. @ EDGES 12" O.C. @ FIELD |
| 1/2"¢ ANCHOR BOLT SPACING 24" W/ 2X P.T. SILL SIMPSON A35 SHEAR TRANSFER @ 12" O.C. SILL SHEAR TRANSFER NAILING (2) ROWS 16d @ 4" O.C. (COMMON, BOX OR SINKER) |
| WALL SYSTEM STRENGTH: 640 PLF SEISMIC SEE NOTE I 895 WIND |
| 3/8" STRUCTURAL WOOD PANELS (BLOCKED) |
| NAILING: IOd (COMMON OR HOT DIPPED GALVANIZED) |
| 2" O.C. @ EDGES 12" O.C. @ FIELD |
| 5/8"4 ANCHOR BOLT SPACING 24" W/ 3X P.T. SILL SIMPSON A35 SHEAR TRANSFER @ 8" O.C. |

5/8" ANCHOR BOLT SPACING 24" W/ 3X P.T. SILL SIMPSON A35 SHEAR TRANSFER @ 8" O.C. SILL SHEAR TRANSFER NAILING (2) ROWS IGD @ 4" O.C. (COMMON, BOX OR SINKER)

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| DOOR | | DOOR SIZE | | DOOR | CORE | MATERIAL | FRAME | NOTES: | WINDOW | WINDO | DW SIZE | OPER. | QNTY. | FRAME | HEAD | U-FACTOR | SHGC | |
| SYMBOL | WIDTH | HEIGHT | THICK | TYPE | CORE | MATERIAL | FRAME | NOTES: | SYMBOL | WIDTH | HEIGHT | OPER. | | FRAME | HEIGHT | U-FACTUR | 5460 | |
| | 3'-0" | 6'-8" | 1-3/4" | SINGLE Door | SOLID | WOOD/GLASS | WOOD | FRONT ENTRY DOOR, UTILITY DOOR | A | 4'-0" | 4'-0" | SLINDING | 5 | VINYL | 6'-8" | 0.3 | 0.23 | |
| 2 | 2'-8" | 6'-8" | -3/4" | SINGLE DOOR | HOLLOW | WOOD | WOOD | INTERIOR DOORS | В | 3'-0" | 3'-0" | SLINDING | 1 | VINYL | 6'-8" | 0.3 | 0.23 | |
| 3 | 2'-6" | 6'-8" | -3/4" | SINGLE DOOR | HOLLOW | WOOD | WOOD | INTERIOR DOORS | | | | | | | | | | |
| 4 | 2'-4" | 6'-8" | -3/4" | SINGLE DOOR | HOLLOW | WOOD | WOOD | INTERIOR DOORS | | T REMOVE | LABELS IND | ICATING U-F | ACTORS | AND SOLAR | CHEAT GA | IN | | |
| 5 | 3'-0" | 6'-8" | -3/4" | SINGLE DOOR | SOLID | METAL | WOOD | BI PASS CLOSET DOORS | | CIENT (SHGO S INSPECTO | C) FROM WIN | DOWS AND | DOORS. V | ERIFY TEM | PORARY L | ABELS WITH | ł | |
| | | | | | | | | | 2. TYP 3. PER NOT 4. FULL 5. SEE 6. THIS INCL | . INTERIOR FORATED REQUIRED Y SHEATH SHEET SI F PROJECT .UDING DOC | E 6X8 DF NO HEADERS @ SHEAR WALL EXTERIOR M FOR ADDITIC IS TO BE CO DRS, WINDOW LS TO BE 22 | ROOF BEA (PERF) AR NALLS WITH DNAL SHEAR DNSTRUCTED IS, AND SIDI | E DESIGNE MIN 3/8" (X WALL AN NO IN COMPI NG. | ED PER 201 DSB, NAILEE ID CONSTRU LIANCE TO | 5 SDPWS PER SHE ICTION NO SRA/WUI. S | 4.3.3.3. STRA AR WALL SO TES. BEE PAGE G | CHEDULE | |



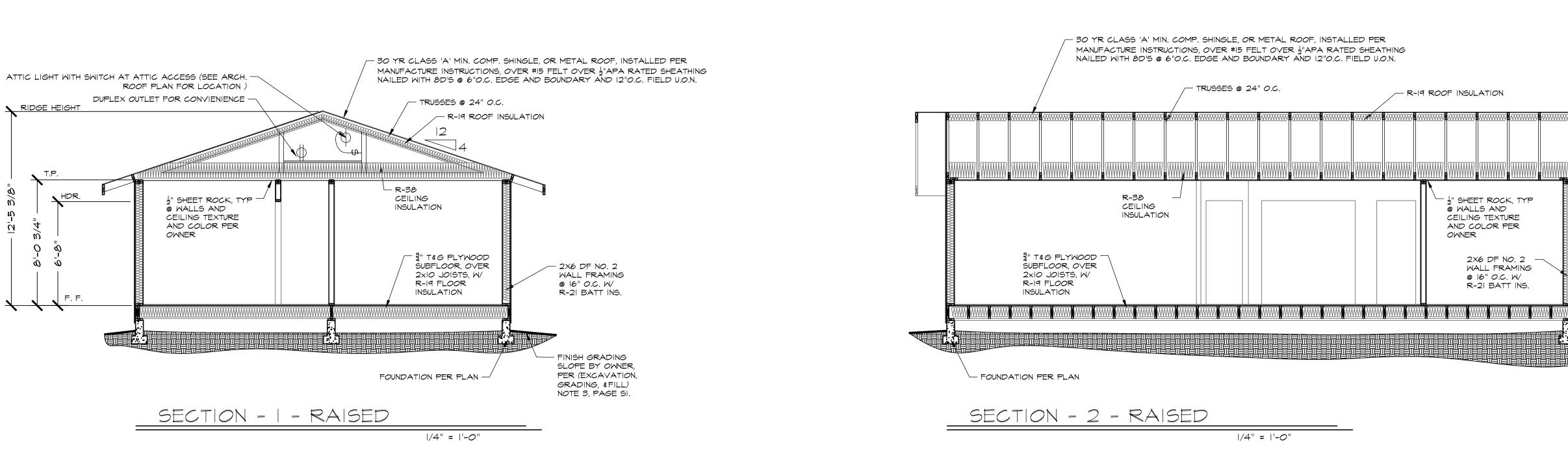
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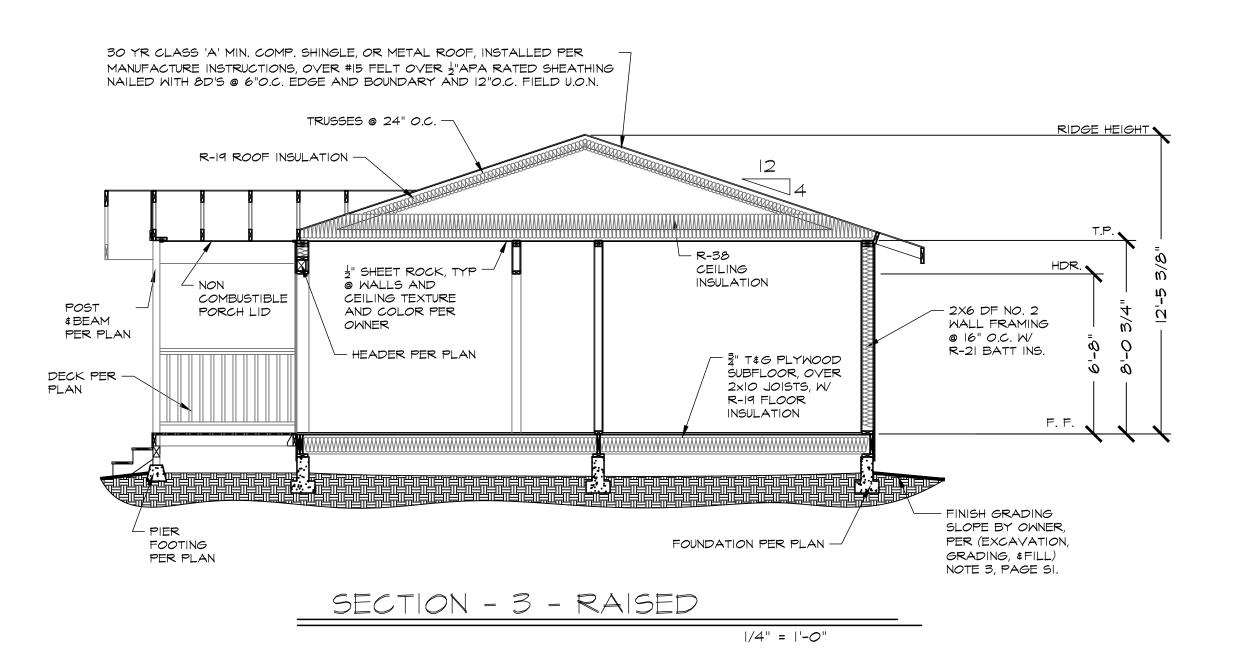
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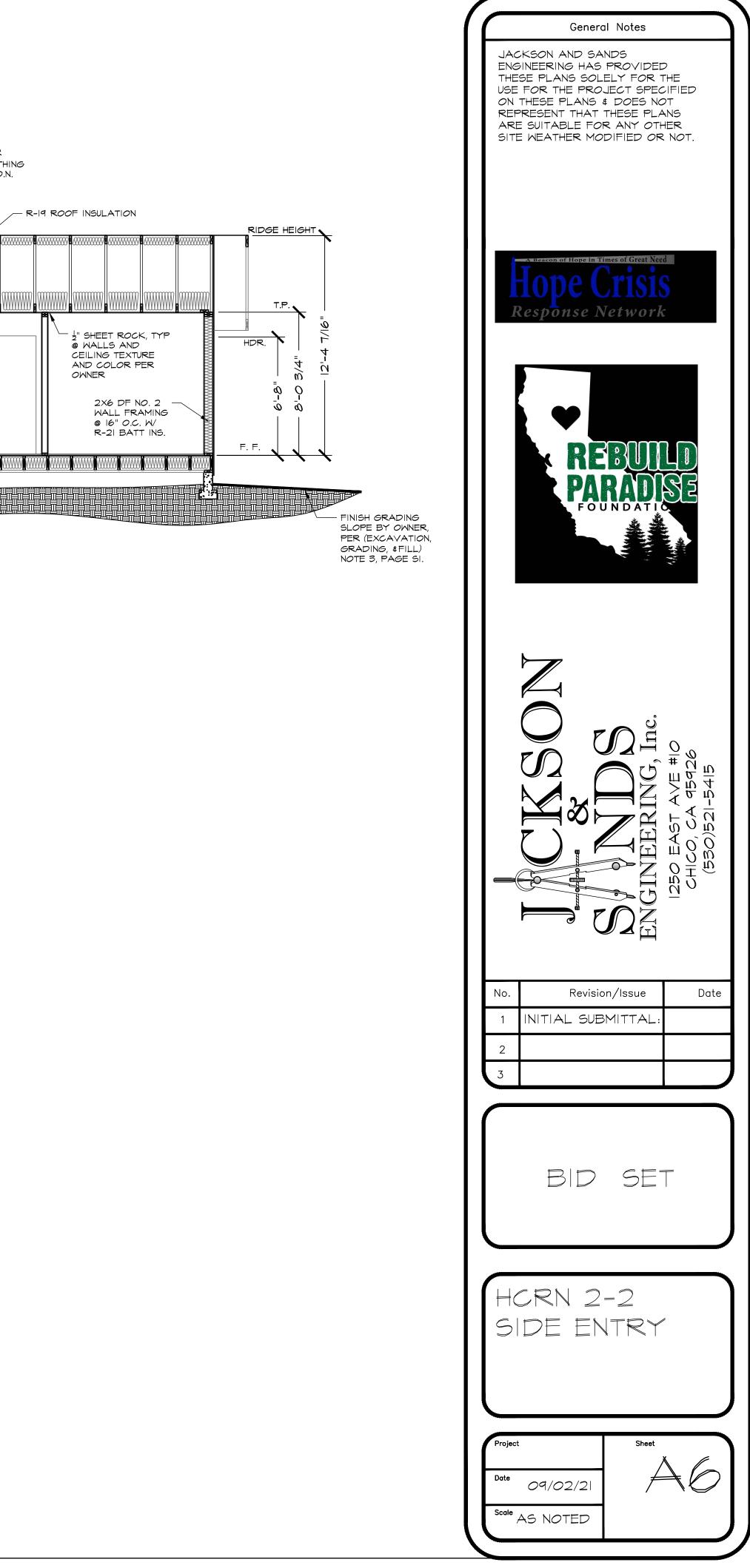
| NOTES: |
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| EGRESS REQ. IN BEDROOMS |
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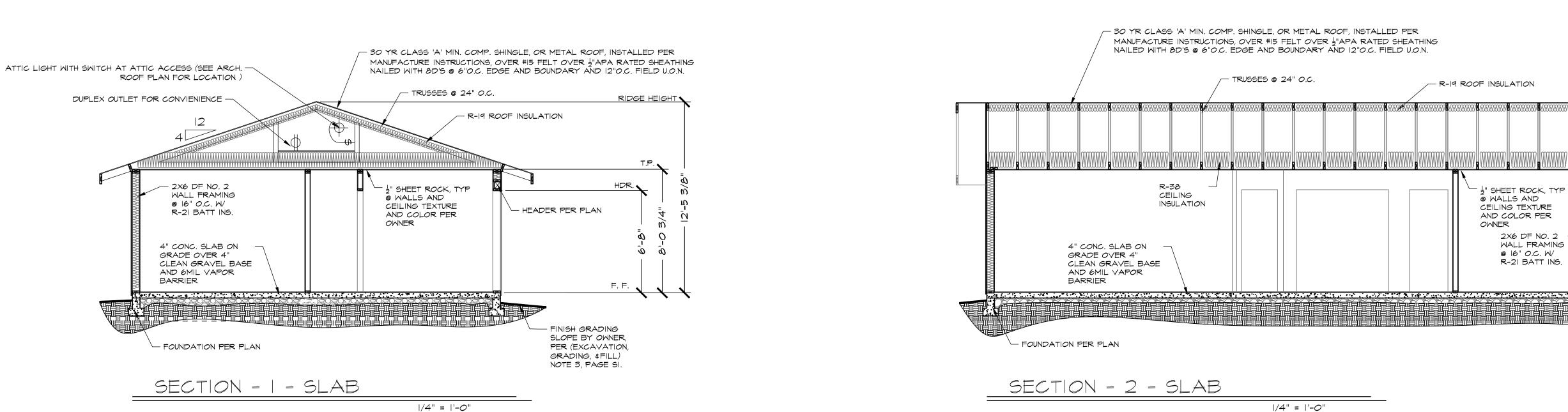
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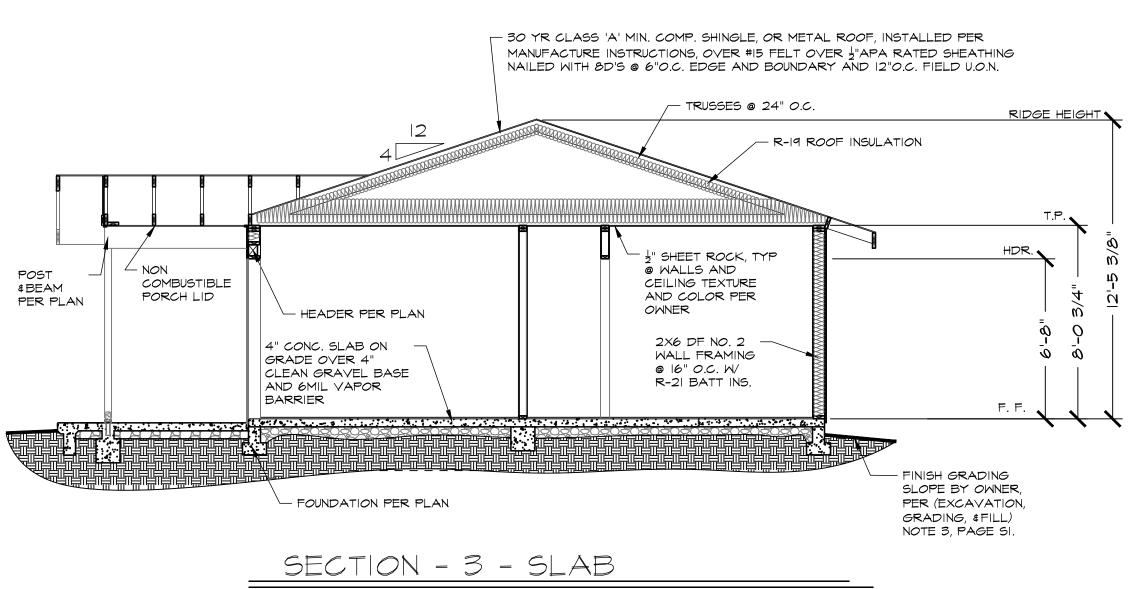
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| | General Notes |
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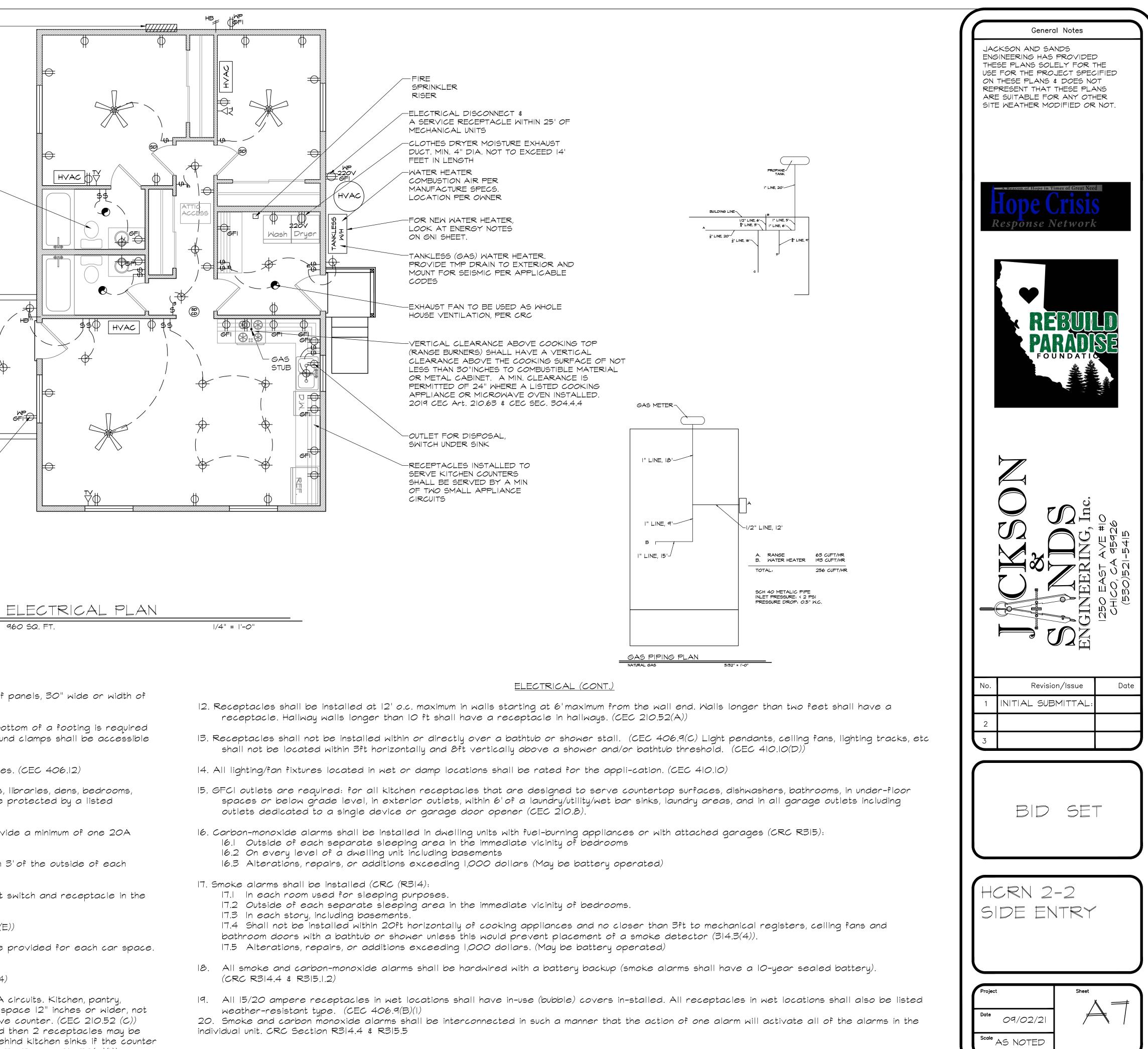
General Notes JACKSON AND SANDS ENGINEERING HAS PROVIDED ENGINEERING HAS PROVIDED THESE PLANS SOLELY FOR THE USE FOR THE PROJECT SPECIFIED ON THESE PLANS & DOES NOT REPRESENT THAT THESE PLANS ARE SUITABLE FOR ANY OTHER SITE WEATHER MODIFIED OR NOT. - R-19 ROOF INSULATION RIDGE HEIGHT of Hope in Times of Great Need esp<mark>o</mark>nse Network Т.Р. ON M ANATATATA M ATA UUU 🖬 V ¹/₂" SHEET ROCK, TYP
 ^(a) WALLS AND
 CEILING TEXTURE HDR. AND COLOR PER OWNER 2X6 DF NO. 2 WALL FRAMING @ 16" O.C. W/ R-21 BATT INS. 5 8 F. F. ++HNHU - FINISH GRADING SLOPE BY OWNER, OUNDAT PER (EXCAVATION, GRADING, & FILL) NOTE 3, PAGE SI. Ē Revision/Issue Date INITIAL SUBMITTAL SET BID HGRN 2-2SIDE ENTRY Proiect Shee Date 09/02/21 Scale AS NOTED

| ELECTRICAL ST | MBOLS | 200 AMP METER & PANEL |
|-------------------------------------------------|---------------------------|-----------------------------------------------------------------------------|
| DUPLEX RECEPTACLE | ф | |
| DUPLEX RECEPTACLE 72" A.F.F. | ф+72 | |
| GROUND FAULT CIRCUIT, AS REQUIRED | Ø GFI | |
| DUPLEX RECEPTACLE 220 VOLT | () 220∨ | |
| DUPLEX RECEPTACLE, WATER-PROOF | ∯ MP | CENTER OF WATER CLOSET SHALL BE SET NO |
| CABLE TV | TV Y | CLOSER THAN 15 INCHES FROM EDGE OF TUB |
| TELEPHONE OUTLET | PH Y | AND LAVATORY CPC 402.5 |
| HOSE BIB W/ ANTI-SIPHON VALVE | нвŤ | |
| SWITCH @ +42" | \$ | |
| SWITCH 3-WAY | ¹ ^B | |
| CEILING LIGHT FIXTURES | ф | |
| SUBPANEL MIN. 200 AMP | (7777777) | |
| EXHAUST FAN | e | |
| SMOKE DETECTOR | 60 | RECEPTACLE(S) |
| COMBINATION SMOKE & CARBON MONOXIDE DETECTOR | (B) | INSTALLED IN PORCH CEILING |
| CEILING FAN | | FOR CHRISTMANS / FESTIVAL LIGHTING |
| HVAC CONDENSER | HVAC | ACCESSIBLE FROM GRADE NO |
| HVAC MINI-SPLIT HEAD | HVAC | |
| GAS OUTLET | ſ | ALL EXHAUST AIR DUCTS SHALL TERMINATE AT THE EXTERIOR OF THE BUILDING |
| TANKLESS WATER HEATER | TANKLESS W/H | ENVELOPE AND A MINIMUM 3' FROM OPENINGS INTO THE BUILDING. |
| GAS METER | | |

960 SQ. F

ELECTRICAL

- I. No electrical panels shall be in closets of bathrooms. Maintain a clearance of 36" inches in front of panels, 30" wide or width of equipment and 6'-6" high for headroom (CEC 110.26).
- 2. A concrete-encased electrode (ufer) consisting of 20' of rebar or #4 copper wire placed in the bottom of a footing is required for all new construction. (CEC 250.52(A) (3) Bond all metal gas and water pipes to ground. All ground clamps shall be accessible and of an approved type. (CEC 250.104)
- 3. All 15/20 ampere receptacles installed per CEC 210.52 shall be listed tamper-resistant receptacles. (CEC 406.12)
- 4. All branch circuits supplying 15/20 ampere outlets in family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, kitchens, laundry room or similar rooms/areas shall be protected by a listed combination type arc-fault circuit interrupter. (CEC 210.12)
- 5. Provide a minimum of one 20A circuit to be used for the laundry receptacle. (CEC 210.11(c)(2)) Provide a minimum of one 20A circuit for bathroom receptacle outlets. (CEC 2|0.||(C)(3)
- 6. Provide at least I outlet in basements, garages, laundry rooms, decks, balconies, porches and within 3' of the outside of each bathroom basin. (CEC 210.52 (D), (F) \$ (G))
- 7. Furnaces installed in attics and crawl spaces shall have an access platform (catwalk in attics), light switch and receptacle in the space. Provide a service receptacle for the furnace. (CEC 210.63)
- 8. All dwellings must have one exterior outlet at the front and the back of the dwelling. (CEC 210.52(E))
- 9. Garage receptacles shall not serve outlets outside the garage. A minimum of I receptacle shall be provided for each car space. (2|0.52(G)(|))
- 10. A 15/20-amp receptacle shall be installed within 50ft of electrical service equipment. (CEC 210.64)
- II. Kitchens, dining rooms, pantries, breakfast nooks, and similar areas must have a minimum of two 20A circuits. Kitchen, pantry, breakfast nooks, dining rooms, and similar areas counter outlets must be installed in every counter space 12" inches or wider, not greater than 4' o.c., within 24" inches of the end of any counter space and not higher than 20" above counter. (CEC 210.52 (C)) Island counter spaces shall have at least I receptacle outlet unless a range top or sink is installed then 2 receptacles may be required. I receptacle is required for peninsular counter spaces. Receptácles shall be located behind kitchen sinks if the counter area depth behind the sink is more than 12" for straight counters and 18" for corner installations. (CEC Fig-ure 210.52(C)(1))



| er | | | | | | | | | | |
|----|-----|---------|-------|-------|-----|------|----------|------|-----|-------|
| | *NO | ALTERAT | FIONS | SHALL | BEI | MADE | $\top O$ | THIS | SET | PLANS |

| | FASTENIN | SCHEDULE | | | | |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--|--|
| | CONNECTION | FASTENING ª | m | LOCATION | | |
| . | JOIST TO SILL OR GIRDER | 3-8d COMMON (2.5 | | | | |
| 2. | BRIDGING TO JOIST | 2-8d COMMON (2.5 | | TOENAIL EA. END | | |
| З. | I"X6" SUBFLOOR OR LESS TO EA. JOIST | 2-8d COMMON (2.5 | | FACE NAIL | | |
| 4. | WIDER THAN I"X6" SUBFLOOR TO EA. JOIST | 3-8d COMMON (2.5 | | FACE NAIL | | |
| 5. | 2" SUBFLOOR TO JOIST OR GIRDER | 2-16d COMMON (2.5 | | BLIND AND FACENAIL | | |
| 6. | SOLE PLATE TO JOIST OR BLOCKING | 6d (3.5" × 0.135") @ | | TYPICAL FACE NAIL | | |
| | SOLE PLATE TO JOIST OR | | | | | |
| | BLOCKING @ BRACED WALL PANEL | 3" - 16d (3.5" × 0.1 | • | BRACED WALL PANELS | | |
| 7. | TOP PLATE TO STUD | 2-16d COMMON (2.5 | , | END NAIL | | |
| 8. | STUD TO SOLE PLATE | 4-8d COMMON (2.5 | , | TOENAIL | | |
| | | 2-16d COMMON (3.5 | , | END NAIL | | |
| 9. | DOUBLE STUDS | 16d (3.5" × 0.135") @ | | | | |
| 0. | DOUBLE TOP PLATES | 16d (3.5" × 0.135") @ | | TYP. FACE NAIL | | |
| | DOUBLE TOP PLATES | 8-16d COMMON (2.5 | 5" X 0.162") | LAP SPLICE | | |
| 11. | BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE | 3-8d COMMON (2.5 | " X 0. 3 ") | TOENAIL | | |
| 2. | RIM JOIST TO TOP PLATE | 8d (2.5" X O.I3I") @ | 6" O.C. | TOENAIL | | |
| З. | TOP PLATES, LAPS AND INTERSECTIONS | 2-16d COMMON (2.5 | 5" X O.I62") | FACE NAIL | | |
| 4. | CONTINUOUS HEADER, TWO PIECES | 6d COMMON (3.5" ; | K 0.162") | 16" O.C. ALONG EDGE | | |
| 15. | CEILING JOISTS TO PLATE | 3-8d COMMON (2.5 | " X 0. 3 ") | TOENAIL | | |
| 6. | CONTINUOUS HEADER TO STUD | 4-8d COMMON (2.5 | " X O. 3 ") | TOENAIL | | |
| 7. | CEILING JOISTS, LAPS OVER PARTITIONS SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1) | 3-16d COMMON (3.5 MINIMUM, TABLE 23 | | FACE NAIL | | |
| 18. | CEILING JOISTS TO PARALLEL RAFTERS SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1) | 3-16d COMMON (3.5 MINIMUM, TABLE 23 | | FACE NAIL | | |
| 19. | RAFTER TO PLATE SEE SECTION 2308.10.1, TABLE 2308.10.1) | 3-8d COMMON (2.5 | " X O.I3I") | TOENAIL | | |
| 20. | I" DIAGONAL BRACE TO EA. STUD AND PLATE | 2-8d COMMON (2 | .5" X 0.131") | | | |
| 21. | I"X8" SHEATHING TO EA. BEARING | 3-8d COMMON (2 | | | | |
| 2. | WIDER THAN I"X8" SHEATHING TO EA. BEARING | 3-80 COMMON (2 | | | | |
| 23. | BUILT-UP CORNER STUDS | 16d COMMON (3.5 | | | | |
| 24. | BUILT-UP GIRDER AND BEAMS | 20d COMMON (4' 2 - 20d COMMON | | P.C. | | |
| 25. | 2" PLANKS | 16d COMMON (3.5 | " X 0 62") | | | |
| | COLLAR TIE TO RAFTER | 3-10d COMMON (3 | | | | |
|7. | JACK RAFTER TO HIP | 3-10d COMMON (| | | | |
| 1. | | | | | | |
| <u>a</u> | PAGE PAETER TO 2 BY RIDGE REAM | 2-16d COMMON (3 | | | | |
| 8. | ROOF RAFTER TO 2 BY RIDGE BEAM | 2-16d COMMON (3.5" X 0.162") 2-16d COMMON (3.5" X 0.162") | | | | |
| | | | • | | | |
| | JOIST TO BAND JOIST | 3-16d COMMON (3 | ».э" X 0.162") | | | |
| | LEDGER STRIP | | | | | |
| 0. | | 3-16d COMMON (2 | • | | | |
| 0. | WOOD STRUCTURAL PANELS AND ^b PARTICLEBOARD SUBFLOOR, ROOF AND | 1/2" AND LESS | 6d ^{c,1} | | | |
| <i>0</i> . | WOOD STRUCTURAL PANELS AND 6 | 1/2" AND LESS 19/32" TO 3/4" | • | | | |
| 0. | WOOD STRUCTURAL PANELS AND ^b PARTICLEBOARD SUBFLOOR, ROOF AND | 1/2" AND LESS | 6d ^{c,1} | | | |
| 30. | WOOD STRUCTURAL PANELS AND ^b PARTICLEBOARD SUBFLOOR, ROOF AND | 1/2" AND LESS 19/32" TO 3/4" | 6d ^{c,1} 8d ^d OR 6d ^e 8d | | | |
| 30. | WOOD STRUCTURAL PANELS AND ^b PARTICLEBOARD SUBFLOOR, ROOF AND | I/2" AND LESS I9/32" TO 3/4" 7/8" TO I" I I/8" TO I I/4" 3/4" AND LESS 7/8" TO I" | 6d ^{c,1} 8d ^d OR 6d ^e 8d 10d ^c or 8d 6d ^e 8d ^e | | | |
| ЭО. ЗІ. | WOOD STRUCTURAL PANELS AND PARTICLEBOARD SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING) SINGLE FLOOR (COMBINATION | I/2" AND LESS I9/32" TO 3/4" 7/8" TO I" I I/8" TO I I/4" 3/4" AND LESS | 6d ^{c,1} 8d ^d OR 6d ^e 8d 10d ^c or 8d 6d ^e 8d ^e 10d ^d or 8d ^e | | | |
| Ю. 31. | WOOD STRUCTURAL PANELS AND PARTICLEBOARD SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING) SINGLE FLOOR (COMBINATION | I/2" AND LESS I9/32" TO 3/4" 7/8" TO I" I I/8" TO I I/4" 3/4" AND LESS 7/8" TO I" | 6d ^{c,1} 8d ^d OR 6d ^e 8d 10d ^c or 8d 6d ^e 8d ^e | | | |
| 30. 31. 32. | WOOD STRUCTURAL PANELS AND PARTICLEBOARD SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING) SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING) | I/2" AND LESS I9/32" TO 3/4" 7/8" TO I" I I/8" TO I I/4" 3/4" AND LESS 7/8" TO I" I I/8" TO I I/4" I/2" AND LESS | 6d ^{c,1} 8d ^d OR 6d ^e 8d 10d ^c or 8d 6d ^e 8d ^e 10d ^d or 8d ^e 6d ^f 8d ^f 8d ^f | NAIL (2" X 0.113") | | |
| 30. 31. 32. | MOOD STRUCTURAL PANELS AND PARTICLEBOARD SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING) SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING) PANEL SIDING (TO FRAMING) | I/2" AND LESS I9/32" TO 3/4" 7/8" TO I" I I/8" TO I I/4" 3/4" AND LESS 7/8" TO I" I I/8" TO I I/4" I/2" AND LESS 5/8" AND LESS 5/8" AND LESS | 6d ^{c,1} 8d ^d OR 6d ^e 8d 10d ^c or 8d 6d ^e 8d ^e 10d ^d or 8d ^e 6d ^f 8d ^f No. II GA ROC 6d COMMON N No. 16 GA STA | NAIL (2" X 0.113") APLE ¹ DFING NAIL ^h NAIL (2 1/2" X 0.131") | | |
| 29. 30. 31. 32. 33. | MOOD STRUCTURAL PANELS AND PARTICLEBOARD SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING) SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING) PANEL SIDING (TO FRAMING) | I/2" AND LESS I9/32" TO 3/4" 7/8" TO I" I I/8" TO I I/4" 3/4" AND LESS 7/8" TO I" I I/8" TO I I/4" I/2" AND LESS 5/8" AND LESS I/2" AND LESS 1/2" AND LESS 1/2" AND LESS 1/2" AND LESS | 6d ^{c,1} 8d ^d OR 6d ^e 8d 10d ^c or 8d 6d ^e 8d ^e 10d ^d or 8d ^e 6d ^f 8d ^f No. 11 GA ROC 6d COMMON N No. 16 GA STA | NAIL (2" X $O.II3")$ APLE ¹ DFING NAIL ^h NAIL (2 I/2" X $O.I3I")$ | | |

a. Common or box nails are permitted to be used except where otherwise noted.

b. Nails spaced at 6 inches on center at edges, 12 inches at intermediate supports except 6 inches at supports where spans are 48 inches or more. For nailing of wood structural panel and particle board diaphragms and shear walls,

refer to Section 2305. Nails for wall sheating are permitted to be commom, box or casing.

c. Common or deformed shank (6d - 2" x 0.113";8d - 2 1/2" x 0.131"; 10d - 3" x 0.148").

d. Common (6d - $2" \times 0.13"$; 8d - $2 \frac{1}{2} \times 0.13$ "; 10d - $3" \times 0.148$ ").

e. Deformed shank (6d - 2" x 0.113"; 8d - 2 1/2" x 0.131"; 10d - 3" x 0.148").

f. Corrosion resistant siding (6d - 1 7/8" × 0.106"; 8d - 2 3/8" × 0.128") or casing (6d - 2" × 0.099"; 8d - 2 1/2" × 113") nail. g. Fasterners spaced 3 inches on center at exterior edges and 6 inches on center at intermediate supports, when used

as structural sheathing. Spacing shall be 6 inches on center on the edges and 12 inches oncenter at intermediate supports for nonstructural applications. h. Corrosion resistant roofing nails with 7/16 inch dia. head and 1 1/2" inch length for 1/2" length for 1/2" inch sheathing and

1 3/4 inch lenth for 25/32 inch sheathing. Corrosion resistant staples with nominal 7/16" crown and 1 1/8" length for 1/2" inch sheathing and 1 3/4" inch length for 25/32 inch sheathing.

j. Casing (| 1/2" x 0.080" or finish (| 1/2" x 0.072") nails spaced 6" on panel edges, |2" at intermediate supports. K. Panel supports at 24". Casing or finish nails spaced 6" on panel edges, 12" at intermediate supports.

I. For roof sheathing applications, 8d nails $(2 \ 1/2" \times 0.113")$ are the minimum required for wod structural panels.

m. Staples shall have a minimum crown width of 7/16 inch.

n. For roof sheathing applications, fasteners spaced 4 inches on center at edges, 8 inches at intermediate supports for subfloor and wall sheathing and 3 inches on center at edges, 6 inches at inermediate supports for roof sheathing. o. Fastners spaced 4inches on center at edges, 8 inches at intermediate supports for subfloor and wall sheathing and 3 inches on center at edges, 6 inches at intermediate supports for roof sheathing.

p. Fasteners spaced 4 inches on center at edges, 8 inches at intermediate supports.

EXCAVATION, GRADING AND FILL:

- VERTICAL MOVEMENT OR BOTH. CODE.

- BY THE ENGINEER OF RECORD.
- 5

DAMPPROOFING AND WATERPROOFING:

- ACCORDANCE WITH THIS SECTION.

- ABOVE GROUND LEVEL.
- MATERIALS SOLUTIONS.
- MEMBRANE MATERIAL

FOUNDATIONS:

- DRAINAGE, EROSION AND SHALLOW FAILURES.
- DETRIMENTAL SETTLEMENT.

- WITH CBC SECTION 1804.5
- MIN. WIDTH OF THE FOOTING SHALL BE 15".

SHEAR WALL NOTES: (PER SDPWS-2015)

I. EXCAVATION NEAR FOUNDATION FOR ANY PURPOSE SHALL NOT REDUCE LATERAL SUPPORT FROM ANY FOUNDATION OR ADJACENT FOUNDATION WITHOUT FIRST UNDERPINNING OR PROTECTING THE FOUNDATION AGAINST DETRIMENTAL LATERAL OR

I.I. WHERE UNDERPINNING IS CHOSEN TO PROVIDE THE PROTECTION OR SUPPORT OF ADJACENT STRUCTURES, THE UNDERPINNING STEM WALL SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH PROVISIONS OF CURRENT CALIFORNIA BUILDING

1.2. UNDERPINNING SHALL BE INSTALLED IN A SEQUENTIAL MANNER THAT PROTECTS THE NEIGHBORING STRUCTURE AND THE WORKING CONSTRUCTION SITE. THE ENGINEER OF RECORD SHALL BE NOTIFIED IF THIS CONDITION EXISTS TO ALLOW FOR PREPARATION OF CONSTRUCTION DOCUMENTS.

2. PLACEMENT OF BACKFILL: THE EXCAVATION OUTSIDE THE FOUNDATION SHALL BE BACKFILLED WITH SOIL THAT IS FREE OF ORGANIC MATERIAL, CONSTRUCTION DEBRIS, COBBLES AND BOULDERS OR WITH CONTROLLED LOW-STRENGTH MATERIAL (CLSM). THE BACKFILL SHALL BE PLACED IN LIFTS AND COMPACTED IN A MANNER THAT DOES NOT DAMAGE THE FOUNDATION OR THE WATERPROOFING OR DAMPPROOFING MATERIAL 3. SITE GRADING: THE GROUND IMMEDIATELY ADJACENT TO THE FOUNDATION SHALL BE SLOPED AWAY FROM THE BUILDING AT A SLOPE OF NOT LESS THAN 5% FOR A MINIMUM DISTANCE OF 10 FEET MEASURED PERPENDICULAR TO THE WALL. IF PHYSICAL

OBSTRUCTIONS OR LOT LINES PROHIBIT IO FEET AN APPROVED METHOD OF DRAINAGE AWAY FROM STRUCTURE SHALL BE USED. SWALES USED FOR THIS PURPOSE SHALL BE SLOPED A MINIMUM OF 2% WHERE LOCATED WITHIN 10 FEET OF BUILDING FOUNDATION. IMPERVIOUS SURFACES WITHIN 10 FEET OF THE BUILDING FOUNDATION SHALL BE SLOPED A MIN. OF 2% AWAY FROM THE BUILDING. 2% SLOPES MAY BE USED WHEN APPROVED

4. WHERE SHALLOW FOUNDATIONS WILL BEAR ON COMPACTED FILL MATERIAL, THE COMPACTED FILL SHALL COMPLY WITH THE APPROVED GEOTECHNICAL REPORT 4.1. WHERE COMPACTED FILL MATERIAL 12 INCHES IN DEPTH OR LESS NEED NOT COMPLY WITH AN APPROVED REPORT, PROVIDED THE IN-PLACE DRY DENSITY IS NOT LESS THAN 90% OF THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT DETERMINED IN ACCORDANCE WITH ASTM DI557. THE COMPACTION SHALL BE VERIFIED BY SPECIAL INSPECTION IN ACCORDANCE WITH SECTION 1705.6

I. WALLS OR PORTIONS THEREOF THAT RETAIN EARTH AND ENCLOSE INTERIOR SPACES AND FLOORS BELOW GRADE SHALL BE WATERPROOFED AND DAMPPROOFED IN

I.I. VENTILATION FOR CRAWL SPACES SHALL COMPLY WITH CBC SECTION 1203.4 2. STORY ABOVE GRADE PLANE: WHERE A BASEMENT IS CONSIDERED A STORY ABOVE GRADE PLANE AND THE FINISHED GROUND LEVEL ADJACENT TO THE BASEMENT WALL IS BELOW THE BASEMENT FLOOR ELEVATION FOR 25% OR MORE OF THE PERIMETER, THE FLOOR AND WALLS SHALL BE DAMPPROOFED IN ACCORDANCE WITH THIS SECTION AND A FOUNDATION DRAIN SHALL BE INSTALLED.

3. THE FINISHED GROUND LEVEL OF AN UNDER-FLOOR SPACE SUCH AS A CRAWL SPACE SHALL NOT BE LOCATED BELOW THE BOTTOM OF THE FOOTINGS. WHERE THERE IS EVIDENCE THAT THE GROUND WATER TABLE RISES TO WITHIN 6 INCHES OF THE GROUND LEBVEL AT THE OUTSIDE BUILDING PERIMETER, OR THAT THE SURFACE WATER DOES NOT READILY DRAIN FROM THE BUILDING SITE, THE GROUND LEVEL OF THE

UNDER-FLOOR SPACE SHALL BE AS HIGH AS THE OUTSIDE FINISHED GROUND LEVEL UNLESS AN APPROVED DRAINAGE SYSTEM IS PROVIDED. 3.1. DAMPPROOFING MATERIALS FOR WALLS SHALL BE INSTALLED ON THE EXTERIOR

SURFACE OF THE WALL, AND SHALL EXTEND FROM THE TOP OF THE FOOTING TO 3.2. DAMPPROOFING SHALL CONSIST OF A BITUMINOUS MATERIAL, 3 POUNDS PER

SQUARE YARD OF ACRYLIC MODIFIED CEMENT, &" COAT OF SURFACE BONDING MORTAR COMPLYING WITH ASTM C887, ANY OF THE MATERIALS PERMITTED FOR WATERPROOFING BY SECTION 1805.3.2 OR OTHER APPROVED METHODS OR

4. WHERE GROUND WATER IS UNCOVERED BY INVESTIGATION OR EXCAVATIONS THE ENGINEER OF RECORD SHALL BE NOTIFIED IMMEDIATELY FOR WATERPROOFING

5. A DRAIN SHALL BE PLACED AROUND THE PERIMETER OF A FOUNDATION THAT CONSIST OF GRAVEL OR CRUSHED STONE CONTAINING NOT MORE THAN 10% MATERIAL THAT PASSES THROUGH A No. 4 SIEVE. THE DRAIN SHALL EXTEND A MINIMUM OF 12" BEYOND THE OUTSIDE EDGE OF THE FOOTING. THE THICKNESS SHALL BE SUCH THAT THE BOTTOM OF THE DRAIN IS NOT HIGHER THAN THE BOTTOM OF THE BASE UNDER THE FLOOR, AND THE TOP OF THE DRAIN IS NOT LESS THAN 6" ABOUVE THE TOP OF THE FOOTING. THE TOP OF THE DRAIN SHALL BE COVERED WITH AN APPROVED FILTER MEMBRANE MATERIAL. WHERE A DRAIN TILE OR PERFORATED PIPE IS USED, THE INVERT OF THE PIPE OR TILE SHALL NOT BE HIGHER THAN THE FLOOR ELEVATION. THE TOP OF JOINTS OR THE TOP OF PERFORATIONS SHALL BE PROTECTED WITH AN APPROVED FILTER

6. THE FLOOR BASE AND FOUNDATION PERIMETER DRAIN SHALL DISCHARGE BY GRAVITY OR MECHANICAL MEANS INTO AN APPROVED DRAINAGE SYSTEM THAT COMPLIES WITH THE CPC. WHEN A SITE IS LOCATED IN A WELL-DRAINED GRAVEL OR SAND/ GRAVEL MIXTURE SOILS, A DEDICATED DRAINAGE SYSTEM IS NOT REQUIRED.

I. NO FILL OR OTHER SURCHARGE LOADS SHALL BE PLACED ADJACENT TO ANY BUILDING OR STRUCTURE UNLESS SUCH STRUCTURE IS CAPABLE OF WITHSTANDING THE ADDITIONAL LOADS CAUSED BY THE FILL OR SURCHARGE

2. IF VIBRATORY LOADS ARE TO BE PRESENT DURING THE USE OF THE STRUCTURE, THE ENGINEER OF RECORD SHALL BE NOTIFIED TO DETERMINE IF ADDITIONAL CONSIDERATION IS REQUIRED TO PREVENT DETRIMENTAL DISTURBANCES OF THE SOIL. 3. IF EXPANSIVE SOILS ARE DISCOVERED THE ENGINEER OF RECORD SHALL BE NOTIFIED TO PROVIDE ADDITIONAL FOUNDATION DESIGN AND CONSTRUCTION REQUIREMENTS. BUILDING CLEARANCE FROM ASCENDING SLOPES SHALL IN GENERAL BE SET A SUFFICIENT DISTANCE FROM THE SLOPE TO PROVIDE PROTECTION FROM SLOPE

5. FOUNDATION SETBACK FROM DESCENDING SLOPE SURFACE SHALL BE FOUNDED IN FIRM MATERIAL WITH AN EMBEDMENT AND SET BACK FROM THE SLOPE SURFACE SUFFICIENT TO PROVIDE VERTICAL AND LATERAL SUPPORT FOR THE FOUNDATION WITHOUT

6. FOR FOUNDATIONS SUPPORTING GROUP R OR U OCCUPANCIES OF LIGHT-FRAME CONSTRUCTION, TWO STORIES OR LESS IN HEIGHT, ASSIGNED TO SEISMIC DESIGN CATEGORY D, E OR F SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 psi 7. CONCRETE FOUNDATIONS ARE PERMITTED TO BE CAST AGAINST THE EARTH WHERE SOIL CONDITIONS DO NOT REQUIRE FORMWORK

8. SHALLOW FOUNDATIONS SHALL BE BUILT ON UNDISTURBED SOIL, COMPACTED FILL MATERIAL OR CLSM. COMPACTED FILL MATERIAL SHALL BE PLACED IN ACCORDANCE

9. THE TOP SURFACE OF FOOTINGS SHALL BE LEVEL. THE BOTTOM SURFACE OF FOOTINGS SHALL BE PERMITTED TO HAVE A SLOPE NOT EXCEEDING 10%. FOOTINGS SHALL BE STEPPED WHERE IT IS NECESSARY TO CHANGE THE ELEVATION OF THE TOP SURFACE OF THE FOOTING OR WHERE THE SURFACE OF THE GROUND SLOPES MORE THAN 10%. IO. FOR SINGLE STORIES, THE MIN. DEPTH OF FOOTINGS SHALL BE 12" BELOW UNDISTURBED GROUND SURFACE. THE MIN. WIDTH OF FOOTING SHALL BE 12". FOR TWO STORIES, THE MIN DEPTH OF FOOTINGS SHALL BE 18" BELOW UNDISTURBED GROUND SURFACE AND THE

II. ALL LOAD BEARING WALLS SHALL BE PLACED ON CONTINUOUS CONCRETE FOOTINGS BONDED INTEGRALLY WITH THE EXTERIOR WALL FOOTINGS. 12. MIN. SLAB THICKNESS SHALL BE 4". A 6-MIL POLYETHYLENE VAPOR RETARDER WITH

JOINTS LAPPED NOT LESS THAN 6" SHALL BE PLACED BETWEEN THE BASE COURSE AND THE CONCRETE FLOOR SLAB. A VAPOR RETARDER IS NOT REQUIRED FOR DETACHED STRUCTURES ACCESSORY TO OCCUPANCIES IN GROUP R-3, SUCH AS GARAGES, UTILITY BUILDINGS OR OTHER UNHEATED FACILITIES.

I. FRAMING REQUIREMENTS: ALL FRAMING MEMBERS AND BLOCKING USED FOR SHEAR WALL CONSTRUCTION SHALL BE 2" NOMINAL OR GREATER. WHERE SHEAR WALLS ARE DESIGNED AS BLOCKED, ALL JOINTS IN SHEATHING SHALL OCCUR OVER AND BE FASTENED TO COMMON FRAMING MEMBERS OR COMMON BLOCKING. SHEAR WALL BOUNDARY ELEMENTS, SUCH AS END POSTS, SHALL BE PROVIDED TO TRANSMIT THE DESIGN TENSION AND COMPRESSION FORCES. SHEAR WALL SHEATHING SHALL NOT BE USED TO SPLICE BOUNDARY ELEMENTS. END POSTS (STUDS OR COLUMNS) SHALL BE FRAMED TO PROVIDE FULL END BEARING.

2. COMMON FRAMING MEMBER: WHERE A COMMON FRAMING MEMBER IS REQUIRED AT ADJOINING PANEL EDGES, TWO FRAMING MEMBERS THAT ARE AT LEAST 2" NOMINAL THICKNESS SHALL BE PERMITTED PROVIDED THEY ARE FASTENED TOGETHER WITH FASTENERS DESIGNED IN ACCORDANCE WITH THE NDS TO TRANSFER THE INDUCED SHEAR BETWEEN MEMBERS. WHEN FASTENERS CONNECTING THE TWO FRAMING MEMBERS ARE SPACED LESS THAN 4" ON CENTER, THEY SHALL BE STAGGERED. 3. TENSION AND COMPRESSION CHORDS SHALL BE INSTALLED AT EACH END OF SHEAR

MALL 4. FASTENERS: SHEATHING SHALL BE ATACHED TO FRAMING MEMBERS USING NAILS OR OTHER APPROVED FASTENERS. NAILS SHALL BE DRIVEN WITH THE HEAD OF THE NAIL FLUSH WITH THE SURFACE OF THE SHEATHING. OTHER APPROVED FASTENERS SHALL BE DRIVEN AS REQUIRED FOR PROPER INSTALLATION OF THAT FASTENER. SEE TABLE FOR NAIL DIMENSIONS.

ANCHOR BOLTS: FOUNDATION ANCHOR BOLTS SHALL HAVE A STEEL PLATE WASHER 5. UNDER EACH NUT NOT LESS THAT 0.229"X3"X3" IN SIZE. THE HOLE IN THE PLATE WASHER SHALL BE PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH OF UP TO BE LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH NOT TO EXCEED 1-3/4", PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT. THE PLATE WASHER SHALL EXTEND TO WITHIN $\frac{1}{2}$ " OF THE BOTTOM PLATE ON THE SIDE(S) WITH SHEATHING OR OTHER MATERIAL WITH NOMINAL UNIT SHEAR CAPACITY GREATER THAN 400 PLF FOR WIND OR SEISMIC (TYPE D AND E SHEAR WALLS) EXCEPTIONS MAY APPLY PER SECTION 4.3.6.4.3.

6. WOOD STRUCTURAL PANEL SHEAR WALL CONSTRUCTION: PANELS SHALL NOT BE LESS THAN 4'X8', EXCEPT AT BOUNDARIES AND CHANGES IN FRAMING. 6.1. ALL EDGES OF PANELS SHALL BE SUPPORTED BY AND FASTENED TO FRAMING

MEMBERS OR BLOCKING. 6.2. NAILS SHALL BE LOCATED AT LEAST ? FROM THE PANEL EDGES. MAXIMUM NAIL

SPACING AT PANEL EDGES SHALL BE 6" ON CENTER. NAILS ALONG INTERMEDIATE FRAMING MEMBERS SHALL BE THE SAME SIZE AS NAILS SPECIFIED FOR PANEL EDGE NAILING. AT INTERMEDIATE FRAMING MEMBERS, THE MAXIMUM NAILING SPACING SHALL BE 6" ON CENTER. WHERE PANELS ARE THICKER THAN $\frac{1}{16}$ " NOMINAL OR STUDS ARE SPACED LESS THAN 24" ON CENTER, THE MAXIMUM NAIL SPACING SHALL BE 12" ON CENTER. 6.4. THE WIDTH OF THE NAILED FACE OF FRAMING MEMBERS AND BLOCKING SHALL BE

2" NOMINAL OR GREATER WHERE ANY OF THE FOLLOWING CONDITIONS OCCUR, THE WIDTH OF THE NAILED 6.5. FACE OF A COMMON FRAMING MEMBER OR BLOCKING AT ADJOINING PANEL EDGES SHALL BE 3" NOMINAL OR GREATER AND NAILING SHALL BE STAGGERED AT ALL

PANEL EDGES (IN LIEU OF A SINGLE COMMON FRAMING MEMBER, TWO FRAMING MEMBERS THAT ARE AT LEAST 2" IN NOMINAL THICKNESS SHALL BE PERMITTED) 6.5.1. NAIL SPACING OF 2" ON CENTER AT ADJOINING PANEL EDGES IS SPECIFIED (TYPE E SHEAR WALL), OR

IOD COMMON NAILS HAVING PENETRATION INTO FRAMING MEMBERS AND 6.5.2. BLOCKING OF MORE THAN 1-1/2" ARE SPECIFIED AT 3" ON CENTER, OR LESS AT ADJOINING PANEL EDGES, OR

THE NOMINAL UNIT SHEAR CAPACITY ON EITHER SIDE OF THE SHEAR WALL, TYPE 6.5.3. E, EXCEEDS 700 PLF IN SEISMIC DESIGN CATEGORY D, E, OR F.

6.6. MAXIMUM STUD SPACING SHALL BE 24" ON CENTER 6.7. WOOD STRUCTURAL PANELS SHALL CONFORM TO THE REQUIREMENTS FOR ITS TYPE 7. SHEAR WALL CONSTRUCTION WITH GYPSUM WALLBOARD OR GYPSUM SHEATING BOARD

SHALL MEET THE FOLLOWING REQUIREMENTS: 7.1. END JOINTS OF ADJACENT COURSES OF GYPSUM WALLBOARD OR SHEATING SHALL NOT OCCUR OVER THE SAME STUD. THE SIZE AND SPACING OF FASTENERS AT SHEAR WALL BOUNDARIES, PANEL EDGES, AND INTERMEDIATE SUPPORTS SHALL BE PER SHEAR WALL SCHEDULE. NAILS SHALL BE LOCATED AT LEAST & FROM THE EDGES AND ENDS OF PANELS. THE WIDTH OF THE NAILED FACE OF FRAMING MEMBERS AND BLOCKING SHALL BE 2" NOMINAL OR GREATER.

7.2. GYPSUM WALLBOARD SHALL BE APPLIED PARALLEL OR PERPENDICULAR TO STUDS. GYPSUM WALLBOARD SHALL CONFORM TO ASTM C 1396 AND SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C 840.

7.3. GYPSUM SHEATING BOARD: 4' WIDE PIECES OF GYPSUM SHEATING BOARD SHALL BE APPLIED PARALLEL OR PERPENDICULAR TO STUDS. 2' WIDE PIECES OF GYPSUM SHEATING BOARD SHALL BE APPLIED PERPENDICULAR TO THE STUDS. GYPSUM SHEATHING BOARD SHALL CONFORM TO ASTM C 1396 AND SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C 1280.

GENERAL NOTES:

- I. ALL CONSTRUCTION SHALL COMPLY WITH THE CURRENTLY ACCEPTED EDITION OF THE CALIFORNIA BUILDING CODE (CBC) AND CBC STANDARDS, AND CALIFORNIA RESIDENTIAL BUILDING CODE CRC.
- 2. IF CONDITIONS ARISE OUTSIDE THE SCOPE OF THESE PLANS, THE ENGINEER OF RECORD SHALL BE NOTIFIED. 3. ALL CONCRETE SHALL HAVE A MIN. STRENGTH OF 2,500 PSI (28 DAY)
- 4. REINFORCEMENT BAR SHALL BE GRADE 40 FOR BARS #4 AND SMALLER AND GRADE 60 FOR BARS #5 AND LARGER
- 5. BOTTOM HORIZONTAL REINFORCING BAR PLACED IN THE FOOTING SHALL BE 3" CLEAR OF BOTTOM OF FOOTING. TOP HORIZONTAL REINFORCING BAR PLACED IN THE FOOTING SHALL BE 2" CLEAR OF THE TOP OF THE FOOTING

