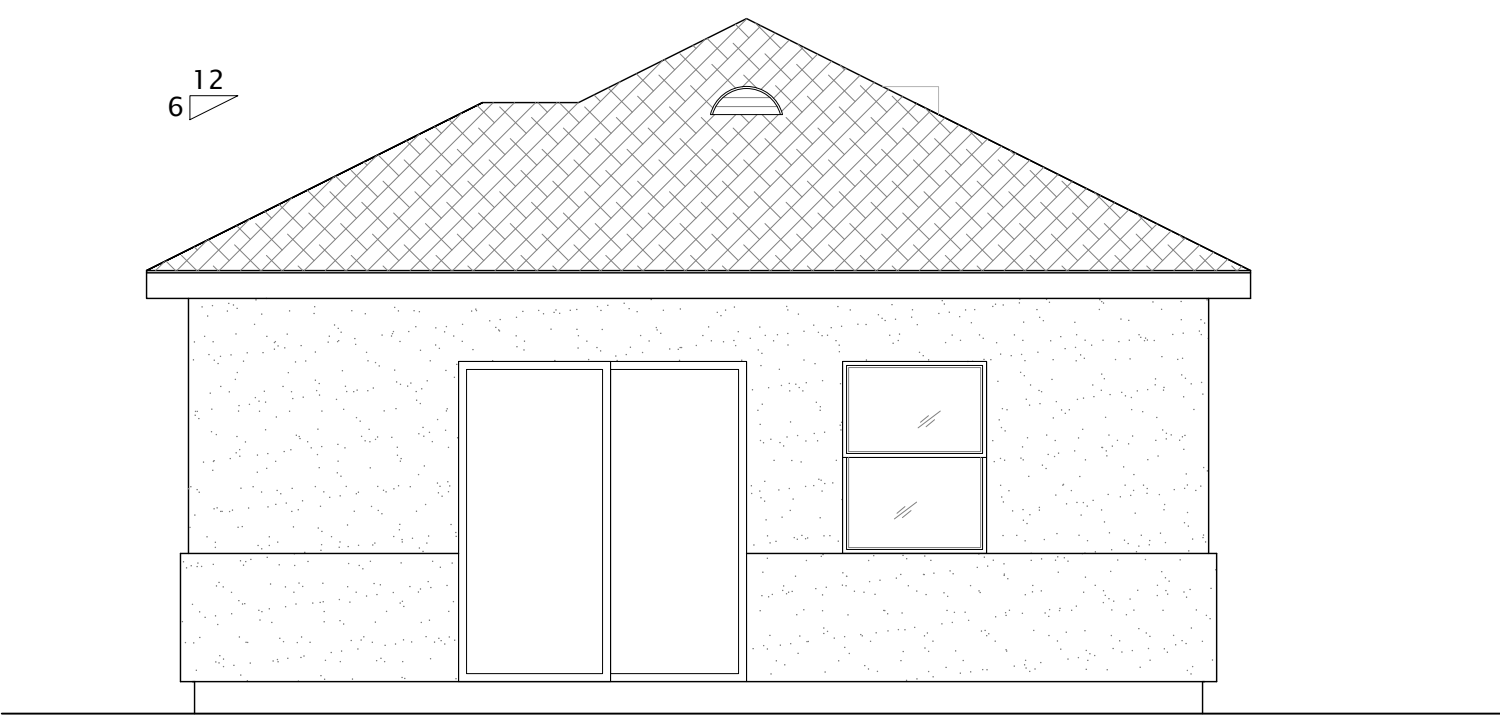
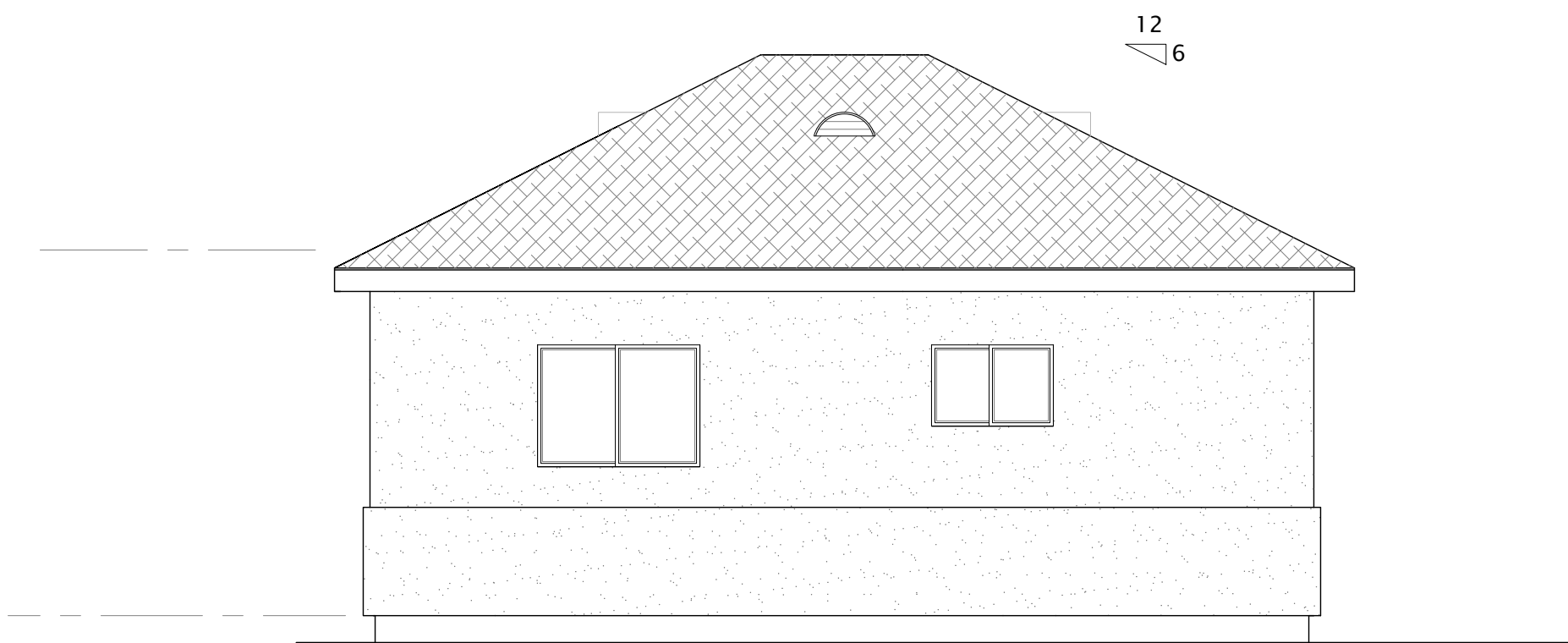


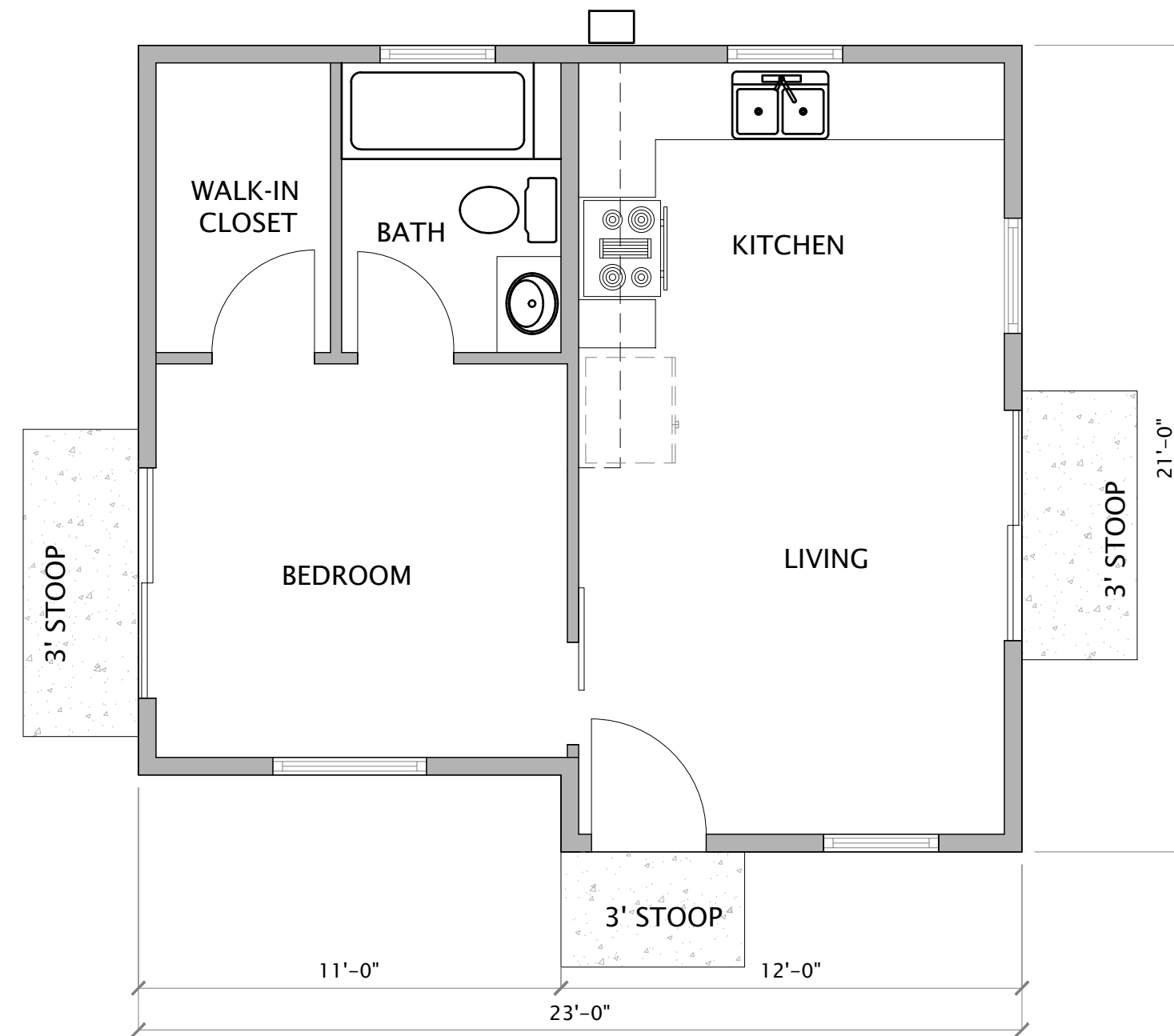
**B LEFT SIDE ELEVATION - PINE**  
SCALE: 1/4" = 1'-0"



**C RIGHT SIDE ELEVATION - PINE**  
SCALE: 1/4" = 1'-0"



**D REAR ELEVATION - PINE**  
SCALE: 1/4" = 1'-0"



**1 FLOOR PLAN— 461 SQ. FT.**  
SCALE: 1/4" = 1'-0"



**A FRONT ELEVATION - PINE**  
SCALE: 1/4" = 1'-0"

**PINE – 461 SF ADU**  
SMALL ACCESSORY DWELLING UNIT – (461 SQ FT – ONE BEDROOM)

CITY OF RED BLUFF  
555 WASHINGTON  
RED BLUFF, CA 96080  
APN:



CMC ARCHITECTURE  
3301 E STREET  
RED BLUFF, CA 96080  
(530) 440-9266

SHEET

**ADU2**

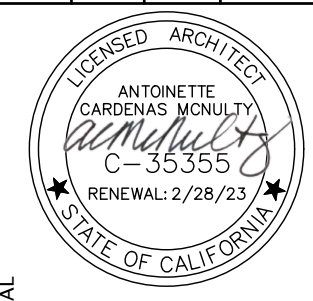
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DATE  
08/22/2022

JOB NUMBER

CADD FILE



SEAL

08/22/2022

SHEET NAME & PROJECT

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NEW ACCESSORY DWELLING UNIT USING STANDARD  
FRAME CONSTRUCTION.

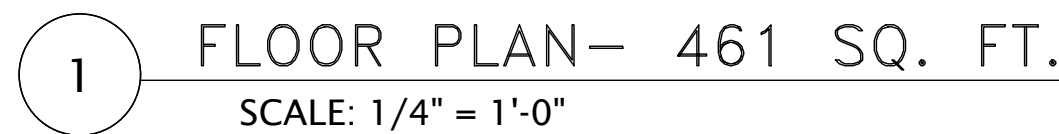
ADU2	COVER SHEET
A2.1	PROPOSED FLOOR PLAN
A3.0	EXTERIOR ELEVATIONS & SECTIONS
AE1	ELECTRICAL PLAN
AE2	CALIFORNIA GREEN BUILDING STANDARDS
S1	STRUCTURAL NOTES
S2	FOUNDATION/ROOF FRAMING PLAN
S3.1	STRUCTURAL DETAILS
S3.2	STRUCTURAL DETAILS

2X6 OR 2X4 WALL (SEE STRUCTURAL SHEET FOR BEARING WALL LOCATIONS)

1. EXTERIOR BEARING WALLS: 2x6 STUDS @16" O/C, U.O.N..
2. FIRE BLOCK: WITH CONCEALED SPACES OF EXTERIOR WALL FINISH AND OTHER ARCHITECTURAL ELEMENTS, AT 10 FOOT HORIZONTAL INTERVALS PER CRC SECTION 717.1. FIRE BLOCK PIPES, DUCTS AND CHIMNEYS AT FLOORS AND CEILINGS PER CRC SECTION 708.2.1.
3. PENETRATIONS OF WALL OR FLOOR-CEILING ASSEMBLIES REQUIRED TO BE FIRE-RESISTANCE RATED IN ACCORDANCE WITH SECTION R302.2 OR R302.3 SHALL BE PROTECTED IN ACCORDANCE WITH THIS SECTION.
4. DOORS SHALL BE PROVIDED WITH LANDINGS OR FLOORS NOT MORE THAN 7-3/4" BELOW THE TOP OF THRESHOLD. CRC SECTION R311.3.2.

1. TUB AND SHOWER COMPARTMENTS SHALL BE FINISHED WITH A NONABSORBANT SURFACE. SUCH WALL SURFACES SHALL EXTEND TO A HEIGHT OF NOT LESS THAN 6 FEET ABOVE THE FLOOR.
2. MATERIALS USED AS BACKERS FOR WALLS IN TUB AND SHOWER AREAS AND WALL PANELS IN SHOWER AREAS SHALL BE GLASS MAT FIBERGLASS PANEL, FIBER-CEMENT BACKER BOARD, OR NON-ASBESTOS FIBER-CEMENT REINFORCED CEMENTITIOUS BACKER UNITS INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.

CALIFORNIA BUILDING CODE.....	2019 EDITION
CALIFORNIA RESIDENTIAL CODE.....	2019 EDITION
CALIFORNIA PLUMBING CODE.....	2019 EDITION
CALIFORNIA MECHANICAL CODE.....	2019 EDITION
CALIFORNIA ELECTRICAL CODE.....	2019 EDITION
CALIFORNIA FIRE CODE.....	2019 EDITION
CALIFORNIA ENERGY CODE.....	2019 EDITION
CALIFORNIA GREEN CODE.....	2019 EDITION
WIND LOAD EXP B (3 SEC. GUST).....	110 MPH
ROOF LIVE LOAD.....	20 psf
FLOOR LIVE LOAD.....	NA
SEISMIC DESIGN CATEGORY.....	D
SOIL CLASS.....	D



1. ALL WORK SHALL CONFORM WITH THE CURRENT CALIFORNIA RESIDENTIAL BUILDING CODE, CALIFORNIA STATE ENERGY CODE AND ALL GOVERNING JURISDICTIONS' RULES, ORDINANCES, AND REGULATIONS.
2. SEPARATE PERMITS MAY BE REQUIRED FOR GRADING, RIGHT-OF-WAY, CLEARING, PLUMBING, MECHANICAL, ELECTRICAL AND SPRINKLER SYSTEM.
3. THE CONTRACTOR SHALL CONSULT PLANS OF ALL TRADES AND CONSULTANTS, INCLUDING DESIGN-BUILD DOCUMENTS TO VERIFY SIZE, LOCATION, WEIGHT, POWER AND OTHER REQUIREMENTS PRIOR TO BIDDING AND AGAIN PRIOR TO BEGINNING WORK.
4. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH CONSTRUCTION DOCUMENTS.
5. PROVIDE NEAT CUT WHERE UTILITIES PENETRATE RATED WALL AND FLOOR ASSEMBLIES, SEAL WITH FIRE-RATED, NON-COMBUSTIBLE MATERIAL. IMPERVIOUS TO THE PASSAGE OF SMOKE, CONFORMING TO CODE & BUILDING OFFICIAL REQUIREMENTS.

11. PROVIDE APPROVED FIRE EXTINGUISHERS AS REQUIRED BY THE FIRE MARSHAL. VERIFY LOCATIONS INDICATED IN CONSTRUCTION DOCUMENTS WITH THE FIRE MARSHAL AND THE GENERAL CONTRACTOR PRIOR TO FRAMING.

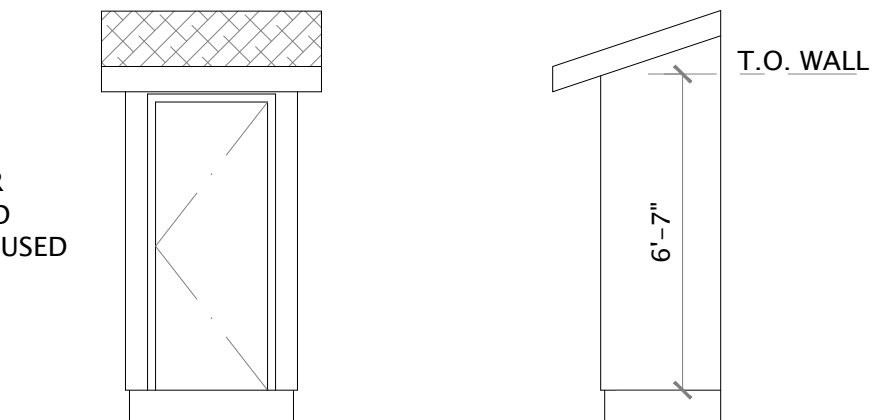
12. ALL DIMENSION INDICATED ARE TO FACE OF STUD, FACE OF STOREFRONT MULLION, OR FACE OF CONCRETE UNLESS OTHERWISE NOTED.
13. DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS.
14. VERIFY ALL DIMENSIONS, DATUMS AND LEVEL PRIOR TO CONSTRUCTION.
15. DO NOT MODIFY THE WORK SHOWN EXCEPT WITH WRITTEN INSTRUCTIONS FROM THE ARCHITECT OR ENGINEER.
17. THESE DRAWINGS ARE THE EXCLUSIVE PROPERTY OF THE ARCHITECT/ENGINEER AND MAY BE REPRODUCED ONLY WITH THE WRITTEN PERMISSION OF THE ARCHITECT/ENGINEER. AUTHORIZED REPRODUCTIONS MUST BEAR THE NAME OF THE ARCHITECT OR ENGINEER.



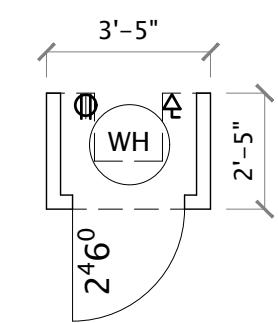




\* COMBUSTION AIR  
@ HI-LOW REQUIRED  
IF GAS-FIRED WH IS USED



#### ELEVATIONS



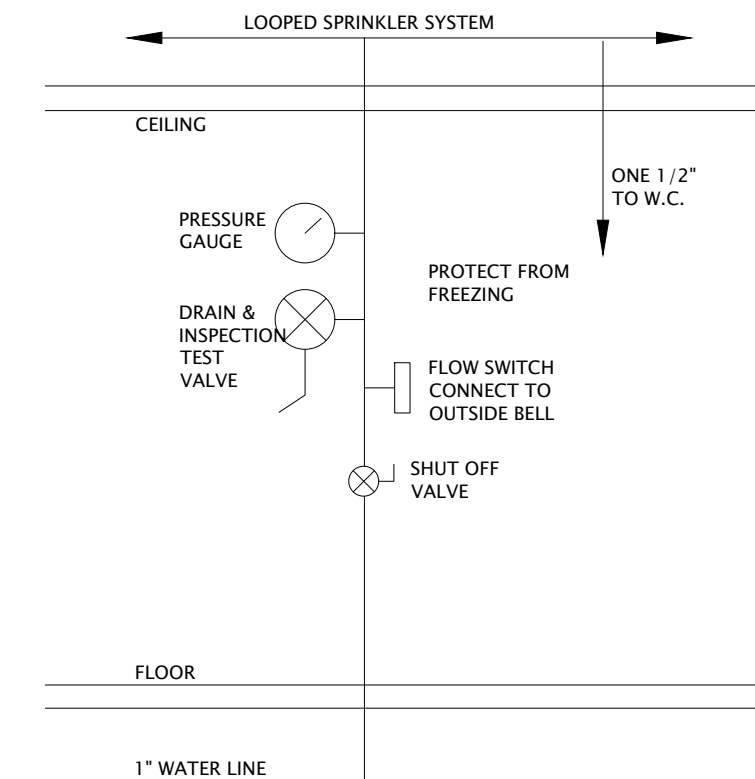
#### PLAN

2

### OPTIONAL EXTERIOR WATER HEATER CLOSET

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

PIPE CONNECTION SIZE SCHEDULE					
FIXTURE	WASTE	VENT	COLD WATER	HOT WATER	CLEANOUT
WC	4"	2"	3/4"	-	YES
LAVATORY/SINK	2"	2"	1-3/4"	1/2"	YES
SHOWER/TUB	2"	2"	1-3/4"	1/2"	YES
WATER HEATER	NA	NA	3/4"	3/4"	NO
PIPING MATERIAL SCHEDULE					
TYPE	INTERIOR	EXTERIOR	INSULATION	NOTES	
COLD WATER	ABOVE FINISH FLOOR TYPE "M" COPPER OR EQUAL BELOW GRADE: TYPE"K" SOFT COPPER	SCHEDULE 40 PVC	IN ATTIC AND EXTERIOR WALLS	USE TYPE "L" COPPER FOR 1ST 18" FROM WATER HEATER IF PEX TUBING IS USED	
HOT WATER	SAME AS CW	NA	ALL HOT WATER LINES TO BE INSULATED	SAME AS CW	
WASTE AND VENT	NO-HUB CAST IRON PVC - DWV	SCR-35 PVC	NA	SCHEDULE 40 PVC-DWV MAY BE USED WITH BUILDING DEPARTMENT APPROVAL	
FIRE SPRINKLER	ABOVE FINISH FLOOR TYPE "L" COPPER OR CPVC	-	EXTERIOR WALLS, IN ATTIC & OUTSIDE	-	
GAS	SCHEDULE 40 BLACK STEEL THREADED	BELOW GRADE: PVC COATED BLK STL THREADED OR WELDED POLYETHYLENE	ABOVE GRADE: BLK. STL. THREADED	-	



#### FIRE RISER DETAIL

#### LOAD CALCULATION:

125 AMP SUB-PANEL ADU:

LIGHTING: 3 VA/SQFT X 1200 SQFT => 3600 VA  
2 x 1500 VA FOR SMALL APPLIANCE CIRCUITS => 3000 VA  
1500 VA FOR DISHWASHER => 1500 VA  
11000 VA FOR RANGE/OVEN => 11000 VA  
1000 VA FOR GARAGE DISPOSAL => 1000 VA  
5000 VA FOR DRYER OR W/D COMBO => 5000 VA  
1500 VA FOR LAUNDRY => 1500 VA

SUB TOTAL: 26600 VA

FIRST 10000 VA @ 100% = 10000 VA  
REMAINDER (CALCULATED AT 16600 ) @ 40% = 6640 VA

2 TON CU UNIT FURNACE = 3000 VA = 1500 VA

TOTAL DEMAND = 21140 VA

TOTAL AMPERAGE ON A 240 VOLT SYSTEM = 89 AMPS

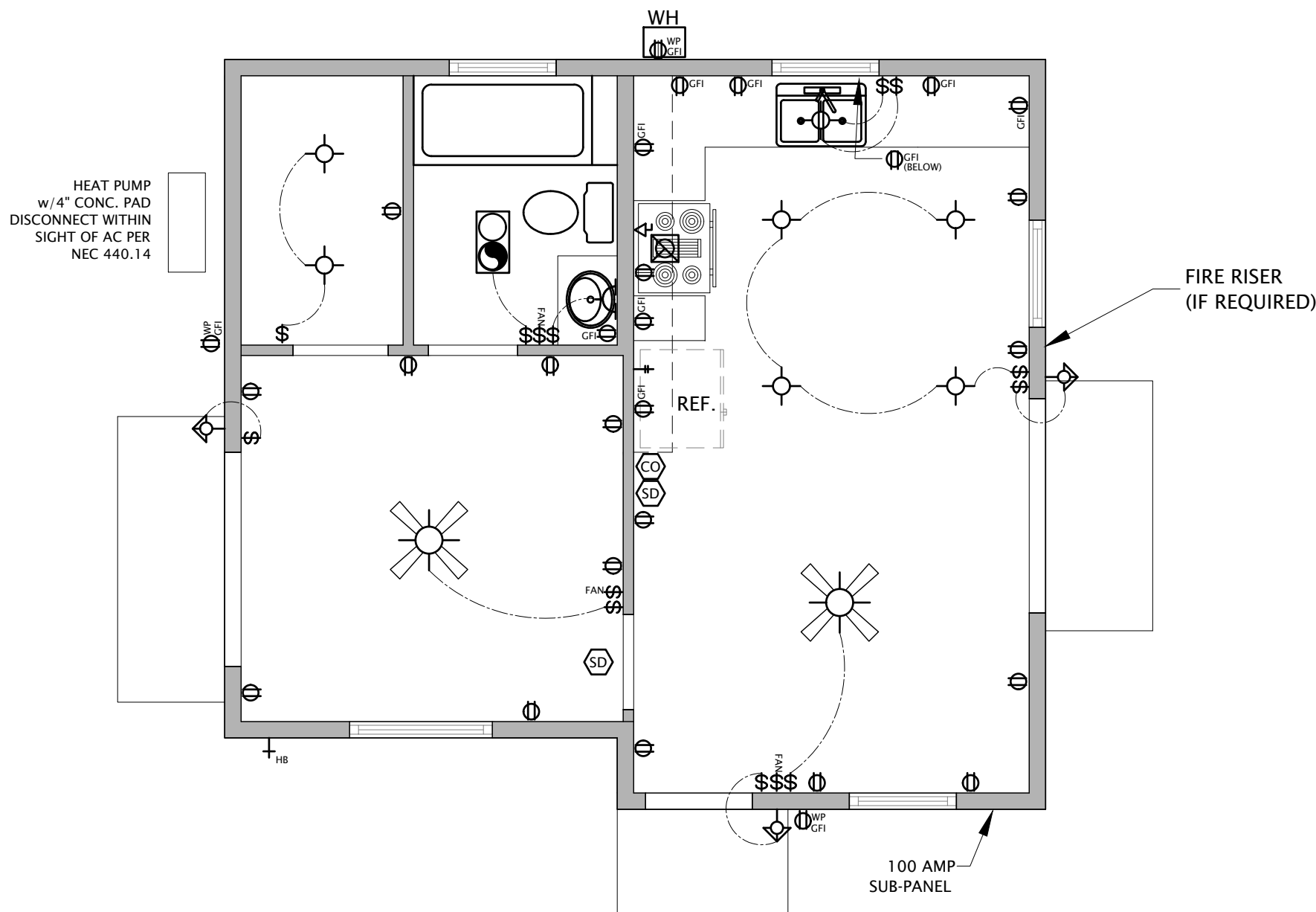
#### HVAC SYSTEMS:

2 TON HVAC SPLIT SYSTEM  
96 AFUE, 16 SEER - 14 EER  
HEATING 24,000 BTU OUTPUT / COOLING 24,000 BTU OUTPUT  
DUCT INSULATION = R-8

\* PROVIDE LIGHT WITH SWITCH, DISCONNECT AND OUTLET IN ATTIC FOR FURNACE + 24" MIN. PLATFORM WORK SPACE  
3/4" GAS SHUT-OFF VALVE  
SUPPLY SECONDARY CONDENSATE DRAIN PAN UNDER FAU W/  
3/4" PVC DRAIN TO DAYLIGHT

WHOLE HOUSE FAN (OPTIONAL) - QC-STL PRO 6.5

STATE MANDATED HERS TESTING AND ADDITIONAL TESTING REQUIREMENTS PER T24 REPORT



1

### ELECTRICAL PLAN

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

#### RESIDENTIAL LIGHTING REQUIREMENTS:

##### KITCHEN:

ALL KITCHEN LIGHTING MUST BE HIGH EFFICACY. PERMANENTLY INSTALLED LIGHTING IN CABINETS MUST BE HIGH EFFICACY. UNDER CABINET LIGHTING MUST BE SWITCHED SEPARATELY FROM OTHER LIGHTING.

##### BATHROOMS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS:

ALL LIGHTING MUST BE HIGH EFFICACY. EACH ROOM MUST HAVE AT LEAST 1 LUMINAIRE IS CONTROLLED BY VACANCY SENSOR. EXHAUST FANS MUST BE SWITCHED SEPARATELY FROM LIGHTING SYSTEMS OR UTILIZE A DEVICE WHERE LIGHTING CAN BE TURN OFF WHILE THE FAN IS RUNNING.

##### CLOSETS AND HALLWAYS LIGHTING:

LIGHTING FOR CLOSET LESS THAN 70 SQUARE FEET AND HALLWAYS MUST BE HIGH EFFICACY. LIGHTING FOR CLOSETS LARGER THAN 70 SQUARE FEET MUST BE HIGH EFFICACY AND CONTROLLED BY A VACANCY SENSOR OR DIMMER.

##### OTHER ROOMS OR AREAS LIGHTING:

SHALL BE HIGH EFFICACY AND CONTROLLED BY EITHER BY A VACANCY SENSOR OR DIMMER.

##### OUTDOOR LIGHTING:

ALL PERMANENTLY INSTALLED OUTDOOR LIGHTING MUST BE HIGH EFFICACY AND MUST BE CONTROLLED BY A MANUAL ON AND OFF SWITCH AND USE ONE OF THESE AUTOMATIC CONTROL TYPES:

- \* PHOTOCONTROL AND MOTION SENSOR, OR
- \* PHOTOCONTROL AND AUTOMATIC TIME SWITCH CONTROL, OR
- \* ASTRONOMICAL TIME CLOCK THAT AUTOMATICALLY TURN OUTDOOR LIGHTING OFF DURING DAYLIGHT HOURS, OR
- \* ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) THAT PROVIDES THE FUNCTIONALITY OF AN ASTRONOMICAL TIME CLOCK. EMCS DOES NOT HAVE AN OVERRIDE OR BYPASS THAT ALLOWS THE LUMINAIRES TO BE ALWAYS ON, AND IS PROGRAMMED TO AUTOMATICALLY TURN THE OUTDOOR LIGHTING OFF DURING DAYLIGHT HOURS.

##### NIGHT LIGHTS

PERMANENTLY INSTALLED NIGHT LIGHTS AND NIGHT LIGHTS INTEGRAL TO A PERMANENTLY INSTALLED LUMINAIRES OR EXHAUST FANS MUST BE RATED TO CONSUME NO MORE THAN 5 WATTS OF POWER PER LUMINAIRE OR EXHAUST FAN. NIGHT LIGHTS DO NOT NEED TO BE CONTROLLED BY VACANCY SENSORS.

##### LIGHTING INTEGRAL TO EXHAUST FANS

LIGHTING INTEGRAL TO EXHAUST FANS (EXCEPT WHEN INSTALLED BY THE MANUFACTURER IN THE KITCHEN HOODS), MUST MEET THE APPLICABLE REQUIREMENTS OF SECTION 150.0(K).

##### RECESSED DOWNLIGHT LUMINAIRES IN CEILINGS

SHALL BE LISTED FOR ZERO CLEARANCE INSULATION CONTACT (IC), LABELED AS AIRTIGHT (AT) WITH AIR LEAKAGE LESS THAN 2.0 CFM, SEALED WITH A GASKET OR CAULK BETWEEN THE HOUSING AND CEILING, ALLOW BALLAST OR DRIVER MAINTENANCE AND REPLACEMENT TO BE READILY ACCESSIBLE TO BUILDING OCCUPANTS FROM BELOW THE CEILING WITHOUT REQUIRING THE CUTTING OF HOLES IN THE CEILING. SHALL NOT CONTAIN SCREW BASE SOCKETS, COMPLY WITH THE ELEVATED TEMPERATURE REQUIREMENTS AND INSTALL LAMPS MUST BE MARKED "JAB-2016-E". FOR INSTANCE, PIN-BASED CFLS MUST BE AS CERTIFIED TO BE INSTALLED IN CEILING RECESSED DOWNLIGHTS. ALL CEILING RECESSED DOWNLIGHTS AND ENCLOSED LUMINAIRES MUST BE CONTROLLED BY A DIMMER OR VACANCY SENSOR.

##### BLANK ELECTRICAL BOXES:

THE NUMBER OF ELECTRICAL BOXES THAT ARE MORE THAN 5 FEET ABOVE THE FINISH FLOOR AND DO NOT CONTAIN A LUMINAIRE OR OTHER DEVICE SHALL BE NO GREATER THAN THE NUMBER OF BEDROOMS. THESE ELECTRICAL BOXES MUST BE SERVED BY A DIMMER, VACANCY SENSOR CONTROL, OR FAN SPEED CONTROL.

##### SWITCHING DEVICES AND CONTROLS

- \* ALL FORWARD PHASE CUT DIMMERS USED WITH LED LIGHT SOURCES SHALL COMPLY WITH NEMA SSL7A.
- \* EXHAUST FANS SHALL BE SWITCHED SEPARATELY FROM LIGHTING SYSTEM EXCEPT FOR AN EXHAUST FAN WITH INTEGRAL LIGHTING WHERE THE LIGHTING SYSTEM CAN BE MANUALLY TURNED OFF WHILE THE FAN IS RUNNING.
- \* LUMINAIRES SHALL BE SWITCHED WITH READILY ACCESSIBLE CONTROLS THAT PERMIT MANUAL ON/OFF SWITCHING.
- \* NO CONTROLS SHALL BY PASS THE DIMMER OR VACANCY SENSOR FUNCTION.
- \* ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) MAY BE USED TO COMPLY WITH VACANCY SENSOR OR DIMMER REQUIREMENTS.
- \* MULTIScene PROGRAMMABLE CONTROLLER MAY BE USED TO COMPLY WITH DIMMER REQUIREMENTS.

#### ELECTRICAL SYMBOLS:

115v DUPLEX +15" TO BOTTOM

115v GROUND FAULT INDICATED DUPLEX OUTLET

220v OUTLET

SINGLE POLE SWITCH

DUAL SWITCHED SINGLE POLE SWITCH

SMOKE DETECTOR 115V

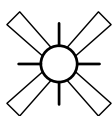
CARBON MONOXIDE DETECTOR 115V  
\* SMOKE DETECTOR & CARBON MONOXIDE SHALL BE INTERCONNECTED FOR ALARM ACTIVATION

EXTERIOR WALL MOUNT LIGHT W/ PHOTO CELL

WALL MOUNT LIGHT

CEILING MOUNT OR RECESSED CAN LIGHT

PENDANT LIGHT



3 SPEED FAN W/ LIGHT. LIGHT MUST BE EITHER PIN-BASED & ELECTRONIC BALLAST COMPACT FLUORESCENT OR CONTROLLED BY A DIMMER SWITCH MEETING THE REQ. OF TITLE 24 SECT. 150(K) ALL CLG. FIXTURE BOXES TO BE METAL & ADEQUATELY SUPPORTED FAN AND LIGHT/ FAN COMBO SHALL BE SEPARATELY SWITCHED



LIGHT / EXHAUST FAN (CONTROLLED BY A HUMIDISTAT AND BE ENERGY STAR RATED AT TUB & SHOWER LOCATION, 80 CFM - 705F OR 110 CFM - 100SF, 3 SONES OR LESS NOISE, 4" DUCT TO OUTSIDE, NUTONE ULTRA SILENT 80 OR EQUAL)

EXHAUST FAN ("CONT" AT CONTINUOUS EXHAUST FAN) - 57 CFM IQA REQUIREMENT, 1 SONE OR LESS W/ 4" DUCT TO OUTSIDE, NUTONE ULTRA SILENT OR EQUAL

GAS SHUT OFF VALVE

KITCHEN HOOD - 100 CFM MIN. AIRFLOW, 3 SONES OR LESS NOISE W/ 6" DUCT TO ROOF, NUTONE NS5830SS OR EQUAL  
KITCHEN EXHAUST FAN SHALL BE HVI-CERTIFIED

HOSE BIB

OPTIONAL ICE WATER STUB OUT

#### GENERAL ELECTRICAL NOTES:

- ALL RECEPTACLES SHALL BE CONNECTED TO THE CIRCUIT INDICATED USING 1" MC CABLE C-2 #12, 1# 12G INSULATED U.N.O. CIRCUITS TO BE CONCEALED IN WALLS OR RAN OVERHEAD. LOCATION AND SPACING OF RECEPTACLE OUTLETS SHALL BE PER CEC SECTION 210-52
- MAINTAIN MIN. 30" WIDE X 36" DEEP X 78" HIGH CLEAR SPACE IN FRONT OF ALL ELECTRICAL DISCONNECTS AND PANELS PER CEC 201.6.
- PANEL SHALL BE RATED AS SHOWN AND PROVIDED W/ TIN-PLATED ALUMINUM BUS, THERMAL MAGNETIC CIRCUIT BREAKERS AS SHOWN, AND NEMA 1 ENCLOSURE U.N.O.
- KITCHEN HOOD TO HAVE 100 CFM MIN. AIRFLOW
- KITCHEN VENTILATION HOOD REQUIRES MANUFACTURE'S DOCUMENTATION ON INSTALLED SYSTEM PERFORMANCE. IF MANUFACTURE DOES NOT PROVIDE PERFORMANCE INFO FOR DUCT SIZE AND LENGTH, PROVIDE FIELD AIRFLOW TESTING MEASURING CFM OF INSTALLED FAN AND DUCT.
- ALL APPLIANCES, FIXTURES AND EQUIPMENT TO BE INSTALLED AS PER CODE AND MANUFACTURE'S SPECIFICATIONS.
- REQUIRED GROUND FAULT INTERRUPTER RECEPTACLE CIRCUITS PER CEC 210-8:  
A. ATTACHED GARAGES - ONE MINIMUM  
B. EXTERIOR OF DWELLING - ONE FRONT, ONE BACK - MINIMUM  
C. ALL BATHROOM RECEPTACLES  
D. ALL RECEPTACLES AT KITCHEN COUNTER TOPS.  
E. CRAWL SPACES  
F. BASEMENTS
- DRYER TO VENT TO OUTSIDE AIR - 14" MAX. W/ 2 BENDS MAX. PER CMC 504.3.2.
- USE CEILING FAN BOXES LISTED PER CEC 422-1.8.
- FIXTURES ABOVE HYDRO MASSAGE TUBS AND SPAS, AND OTHER WET/DAMP LOCATIONS SHALL BE G.F.I. PROTECTED, SUITABLE FOR DAMP LOCATIONS, AND ELECTRICALLY ISOLATED PER CEC 680.4.1.
- SEE MANDATORY MEASURES SUMMARY ON TITLE 24 ENERGY CALCULATIONS FOR ADDITIONAL LIGHTING REQUIREMENTS AND ARE PART OF THESE PLANS.
- COMBUSTION APPLIANCES MUST BE PROPERLY VENTED AND INSTALLED TO PREVENT BACK DRAFT.
- AUTOMATIC GARAGE DOOR OPENERS MUST BE UL LISTED - R309.4. GARAGE DOOR SPRINGS - PER SECTION 1211 CRC
- REQUIRED HEATING - 68 DEGREES F, 3 FEET ABOVE FLOOR AND 2 FEET FROM EXTERIOR WALLS IN ALL HABITABLE ROOMS - R303.8
- DUCT SHALL HAVE R-8 INSULATION & TESTED FOR LOW LEAKAGE
- RECESSED CANS PER SECTION 6.10.1 MUST BE IC RATED & LABELED FOR AIRTIGHT CONSTRUCTION, SEALED WITH A GASKET OR CAULKING BETWEEN THE LUMINAIRES HOUSING AND THE CEILING
- NOT USED.
- NOT USED
- ALL PERMANENTLY INSTALLED LUMINAIRES SHALL BE HIGH EFFICACY CA ENERGY CODE SECTION 150.0(K) A.
- ALL LIGHTING MUST BE SWITCHED SEPARATELY FROM EXHAUST FANS.
- ALL LIGHTING CONTROLS AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
- 3-WAY AND 4-WAY SWITCHES AND OTHER LIGHTING CONTROLLED BY MORE THAN ONE SWITCH WHERE A DIMMER OR VACANCY SENSOR HAS BEEN INSTALLED SHALL MEET THE FOLLOWING CONDITIONS: NO CONTROLS SHALL BYPASS THE DIMMER OR VACANCY SENSOR FUNCTION AND THE DIMMER OR VACANCY SENSOR SHALL BE CERTIFIED TO MEET THE APPLICABLE REQUIREMENTS IN CEC SECTION 6.3.2.
- LUMINAIRES IN CLOTHES CLOSETS SHALL BE PER CEC 410-1.6
- ELECTRICAL RECEPTACLES FOR DISHWASHER AND GARBAGE DISPOSAL TO BE LOCATED UNDER SINK, NOT MORE THAN 36" FROM APPLIANCES.
- RECEPTACLE IN BATHROOMS, LAUNDRY, GARAGE AND HALLS 10' LONG AND WITHIN 24" ALONG KITCHEN COUNTER SPACES 12" AND WIDER, AND EVERY 12' ALONG ISLANDS PER CEC 210-57.
- OUTDOOR WEATHER PROOF GFI RECEPTACLES IN FRONT AND BACK OF RESIDENCE PER CEC 210-52 AND 410-57.
- PROVIDE AN OUTDOOR WEATHER PROOF GFI RECEPTACLE WITH-IN 25' OF EXTERIOR MECHANICAL EQUIPMENT PER CEC 210-63
- ALL BRANCH CIRCUITS THAT SUPPLY 120 VOLTS, SINGLE PHASE 15 AND 20 AMP OUTLETS INSTALLED IN DWELLINGS THROUGHOUT SHALL BE PROTECTED BY ARC FAULT CIRCUIT INTERRUPTER PER CEC 210-12.(b)
- PROVIDE DISCONNECT WITHIN SIGHT OF AIR CONDITIONING EQUIPMENT PER CEC 440-1.4.
- PROVIDE 30" WIDE X 36" DEEP WORKING CLEARANCE AT AC DISCONNECT PER CEC 210-12.(b)
- SMOKE DETECTORS SHALL BE HARD WIRED, INTERCONNECTED, W/ BATTERY BACKUP, AND AUDIBLE IN ALL BEDROOMS PER CEC 507.2.10.2
- DEDICATED 20-AMP CIRCUIT FOR ALL BATHROOM RECEPTACLES PER CEC 210-1.1.(i) (2) 20 AMP SMALL APPLIANCE BRANCH CIRCUITS IN KITCHEN.
- SWITCHED LIGHT AND RECEPTACLE IN ATTIC AND UNDER FLOOR SPACES WITH MECHANICAL EQUIPMENT PER CEC 210-70.(3)(k)
- PROVIDE A LIGHT WITH SWITCH AT ALL EXITS PER CEC 210-70
- DIRECT VENT IS REQUIRED FOR WARM AIR FURNACES IN SLEEPING ROOMS PER CEC 504.5
- EXHAUST FAN DUCTS TO BE INSTALLED PROPERLY WITHOUT DIPS WHERE MOISTURE CAN COLLECT.
- VENTILATION SYSTEM CONTROLS SHALL BE LABELED "VENTILATION CONTROL" AND THE HOME OWNER SHALL BE PROVIDED WITH INSTRUCTIONS ON HOW TO OPERATE THE SYSTEM.
- MECHANICAL SYSTEMS INCLUDING HEATING AND AIR CONDITIONING SYSTEMS THAT SUPPLY AIR TO HABITABLE SPACES SHALL HAVE A MERV 6 FILTER OR BETTER.
- AIR INLETS (NOT EXHAUST) SHALL BE LOCATED AWAY FROM KNOW CONTAMINANTS.
- ALL LIGHTING INSTALLATION TO COMPLY WITH CF-6R-LTC-01 INSTALLATION CERTIFICATE REQUIREMENTS. IT IS RECOMMENDED TO BE FILLED OUT AND PROVIDED TO BUILDING INSPECTOR AT FRAME INSPECTION.
- WHOLE BUILDING VENTILATION FANS AND LOCAL BUILDING VENTILATION FANS ARE TO COMPLY WITH CF-6R-MECH-05 INSTALLATION CERTIFICATE REQUIREMENTS. IT IS RECOMMENDED THIS FORM BE FILLED OUT PRIOR TO SUBMITTAL AND PROVIDED TO THE BUILDING INSPECTOR AT THE FRAME INSPECTION. CF-6R-MECH-05 REQUIRED AT FINAL AND PROVIDED TO OWNER.
- NO GAS OR SOLID FUEL (OTHER THAN DIRECT VENT) ALLOWED IN CONDITIONED SPACE UNLESS SUPPLY AIR IS PROVIDED.
- IN ALL AREAS SPECIFIED IN CEC 210.52 ALL 125V 15 TO 20 AMP RECEPTACLES SHALL BE LISTED TAMPER RESISTANT RECEPTACLE.
- TERMINATION ALL ENVIRONMENTAL AIR DUCTS SHALL BE A MIN. OF 3" FROM ANY OPENINGS INTO THE BUILDING (DRYERS, BATH AND UTILITY FANS ETC) MUST BE 3' AWAY FROM DOORS, WINDOWS, OPENING SKYLIGHTS, OR ATTIC VENTS PER CMC 504.5.
- CARBON MONOXIDE ALARMS SHALL RECEIVE THEIR PRIMARY POWER FROM BUILDING WIRING FROM A COMMERCIAL SOURCE AND SHALL BE EQUIPPED WITH A BATTERY BACK-UP. CRC R315.1.1
- ALL 125 VOLT, 15 AND 20 AMP RECEPTACLES INSTALLED IN A RESIDENCE OR ACCESSORY STRUCTURE SHALL BE LISTED TAMPER RESISTANT RECEPTACLES. NO EXCEPTIONS FOR RECEPTACLES ON CEILINGS, ABOVE COUNTERS OR BEHIND APPLIANCES. CEC 406.11
- ATTIC FURNACE NEEDS A 30"x30" PLATFORM AND 24" WALKWAY, A MAXIMUM OF 20" FROM THE ACCESS UNLESS 6" OF HEADROOM IS PROVIDED. CMC 504.11

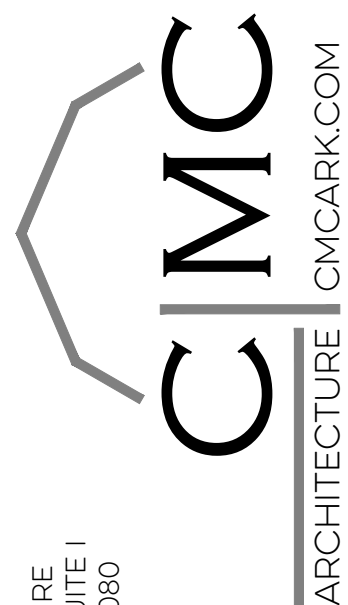
REVISIONS		DATE	DESCRIPTION
		08/22/2022	



08/22/2022

ELECTRICAL PLAN - PINE  
SMALL ACCESSORY DWELLING UNIT - (461 SQ FT ONE BEDROOM)

SHEET NAME & PROJECT



CMC ARCHITECTURE  
3825 RED BLUFF RD  
RED BLUFF, CA 96080  
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SHEET

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# CALIFORNIA GREEN BUILDING STANDARDS RESIDENTIAL MANDATORY MEASURES

## STORM WATER MANAGEMENT: CGBSC SEC. 4.106.2

UTILIZE 'BMP' - PROJECTS THAT DISTURB LESS THAN ONE ACRE OF SOIL SHALL MANAGE STORM WATER IN ONE OF THE FOLLOWING MEASURES TO PREVENT FLOODING OF ADJACENT PROPERTY, PREVENT EROSION AND RETAIN SOIL RUN-OFF ON THE SITE:

- RETENTION BASINS OF SUFFICIENT SIZE SHALL BE UTILIZED TO RETAIN STORM WATER ON SITE.
- WHERE STORM WATER IS CONVEYED TO A PUBLIC DRAINAGE SYSTEM, COLLECTION POINT, GUTTER, OR SIMILAR DISPOSAL METHOD, THE 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 PLAN.

## ELECTRIC VEHICAL (EV) CHARGING NEW ONE AND TWO FAMILY DWELLINGS AND TOWNHOUSES WITH ATTACHED PRIVATE GARAGES CGBSC 4.106.4.1

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 BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE.

## INDETIFICATION CGBSC 4.106.1.1

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'.

## INDOOR WATER CONSERVING PLUMBING FIXTURES AND FITTINGS CGBSC 4.303.1

- WATER CLOSETS - THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH - 4.303.1.1
- URINALS - THE EFFECTIVE FLUSH VOLUME OF WALL MOUNTED URINALS SHALL NOT EXCEED 0.125 GALLONS PER FLUSH - 4.303.1.2
- SINGLE SHOWER HEAD - SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 80 PSI. - 4.303.1.3
- THE COMBINED FLOW RATE OF MULTIPLE SHOWER HEADS IN ONE SHOWER SHALL NOT EXCEED 1.8 GPM @ 80 PSI OR THE SHOWER SHALL BE DESIGNED TO ALLOW OPERATION OF ONLY ONE SHOWER HEAD AT A TIME. - 4.303.1.3.2
- FAUCETS - THE MAX. FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT EXCEED 1.2 GALLONS PER MINUTE AT 60 PSI. THE MINIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT BE LESS THAN 0.8 GALLONS PER MINUTE AT 20 PSI.
- KITCHEN FAUCETS - THE MAX. FLOW RATE OF KITCHEN FAUCETS SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 60 PSI.

## OUTDOOR WATER USE CGBSC 4.305

AFTER DECEMBER 1st, 2015, NEW RESIDENTIAL DEVELOPMENTS WITH AN AGGREGATE LANDSCAPE AREA EQUAL TO OR GREATER THAN 500 SQUARE FEET SHALL COMPLY WITH ONE OF THE FOLLOWING:

- A LOCAL WATER EFFICIENT LANDSCAPE ORDINANCE OR THE CURRENT CALIFORNIA DEPARTMENT OF WATER RESOURCES MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWEL0) WHICHEVER IS MORE STRINGENT;
- OR
- PROJECTS WITH AGGREGATE LANDSCAPE AREAS LESS THAN 2,500 SQUARE FEET MAY COMPLY WITH MWEL0's APPENDIX D PRESCRIPTIVE 5. A MIN. OF 50% OF THE CONSTRUCTION WASTE GENERATED AT THE SITE SHALL BE DIVERTED TO RECYCLE OR SALVAGE

## ENHANCED DURABILITY AND REDUCED MAINTENANCE - RODENT PROOFING CGBSC 4.406.1

ANNULAR SPACES AROUND PIPES, ELECT. CABLES, CONDUITS OR OTHER OPENINGS IN PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONC. MASONRY OR SIM. METHOD ACCEPTABLE TO THE ENFORCING AGENCY.

## CONSTRUCTION WASTE MANAGEMENT CGBSC 4.408.1

RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 65 PERCENT OF THE NONHAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDANCE WITH EITHER SECTION 4.408.2, 4.408.3, 4.408.4, OR MEET A MORE STRINGENT LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE.

## CONSTRUCTION WASTE MANAGEMENT PLAN CGBSC 4.408.2

SUBMIT A CONSTRUCTION WASTE MANAGEMENT PLAN IN CONFORMANCE WITH ITEMS 1 THRU 5. THE CONSTRUCTION WASTE MANAGEMENT PLAN SHALL BE UPDATED AS NECESSARY AND SHALL BE AVAILABLE DURING CONSTRUCTION FOR EXAMINATION BY THE ENFORCING AGENCY:

- IDENTIFY THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL BY RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE.
- SPECIFY IF CONSTRUCTION AND DEMOLITION WASTE MATERIALS WILL BE SORTED ON SITE (SOURCE SEPARATED) OR BULK MIXED (SINGLE STREAM).
- IDENTIFY DIVERSION FACILITIES WHERE THE CONSTRUCTION AND DEMOLITION WASTE MATERIAL WILL BE TAKEN.
- IDENTIFY CONSTRUCTION METHODS EMPLOYED TO REDUCE THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE GENERATED.
- SPECIFY THAT THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE MATERIALS DIVERTED SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BY BOTH.

## WASTE MANAGEMENT COMPANY CGBSC 4.408.3

UTILIZE A WASTE MANAGEMENT COMPANY, APPROVED BY THE ENFORCING AGENCY, WHICH CAN PROVIDE VERIFIABLE DOCUMENTATION THAT THE PERCENTAGE OF CONSTRUCTION AND DEMOLITION WASTE MATERIAL DIVERTED FROM THE LANDFILL COMPLIES WITH SECTION 4.408.1

## BUILDING MAINTENANCE AND OPERATION - OPERATION AND MAINTENANCE MANUAL CGBSC 4.10.1

AT THE TIME OF FINAL INSPECTION, A MANUAL, COMPACT DISK, WEB BASED REFERENCE OR OTHER MEDIA ACCEPTABLE TO THE ENFORCING AGENCY WHICH INCLUDES ALL OF THE FOLLOWING SHALL BE PLACED IN THE BUILDING:

- DIRECTIONS TO THE OWNER OR OCCUPANT THAT THE MANUAL WILL REMAIN WITH THE BUILDING THROUGHOUT THE LIFE CYCLE OF THE STRUCTURE.
- OPERATION AND MAINTENANCE INSTRUCTIONS FOR THE FOLLOWING:
  - EQUIPMENT AND APPLIANCES, INCLUDING WATER SAVING DEVICES AND SYSTEMS, HVAC SYSTEMS, PHOTOVOLTAIC SYSTEMS, ELECTRIC VEHICLE CHARGINGS, WATER HEATING SYSTEMS AND OTHER MAJOR APPLIANCES AND EQUIPMENT.
  - ROOF AND YARD DRAINAGE, INCLUDING GUTTERS AND DOWNSPOUTS.
  - SPACE CONDITIONING SYSTEMS, INCLUDING CONDENSERS AND AIR FILTERS.
  - LANDSCAPE IRRIGATION SYSTEMS.
  - WATER REUSE SYSTEMS.
- INFORMATION FROM LOCAL UTILITY, WATER AND WASTE RECOVERY PROVIDERS ON METHODS TO FURTHER REDUCE RESOURCE CONSUMPTION, INCLUDING RECYCLE PROGRAMS AND LOCATIONS.
- PUBLIC TRANSPORTATION AND/OR CARPOOL OPTIONS AVAILABLE IN THE AREA.
- EDUCATIONAL MATERIAL ON THE POSITIVE IMPACTS OF AN INTERIOR RELATIVE HUMIDITY BETWEEN 30-60 PERCENT AND WHAT METHODS AN OCCUPANT MAY USE TO MAINTAIN THE RELATIVE HUMIDITY LEVEL IN THAT RANGE.
- INFORMATION ABOUT WATER CONSERVING LANDSCAPE AND IRRIGATION DESIGN AND CONTROLLERS WHICH CONSERVE WATER.
- INSTRUCTIONS FOR MAINTAINING GUTTERS AND DOWNSPOUTS AND THE IMPORTANCE OF DIVERTING WATER AT LEAST 5 FEET AWAY FROM THE FOUNDATION.
- INFORMATION ON REQUIRED MAINTENANCE MEASURES, INCLUDING BUT NOT LIMITED TO, CAULKING, PAINTING, GRADING AROUND THE BUILDINGS, ETC.
- INFORMATION ABOUT SOLAR ENERGY AND INCENTIVE PROGRAMS AVAILABLE.
- A COPY OF ALL SPECIAL INSPECTION VERIFICATIONS REQUIRED BY THE ENFORCING AGENCY OR THIS CODE.

## FIREPLACES - GENERAL CGBSC 4.503

ANY INSTALLED GAS FIREPLACE SHALL BE DIRECT VENT SEALED COMBUSTION TYPE. ANY INSTALLED WOOD STOVE SHALL COMPLY WITH U.S. EPA NEW SOURCE PERFORMANCE STANDARDS (NSPS) EMISSION LIMITS AS APPLICABLE, AND SHALL HAVE PERMANENT LABEL INDICATING THEY ARE CERTIFIED TO MEET THE EMISSION LIMITS. WOODSTOVES, PELLET STOVES AND FIREPLACES SHALL ALSO COMPLY WITH APPLICABLE LOCAL ORDINANCES.

## POLLUTANT CONTROL:

## COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION CGBSC 4.504.1

AT THE TIME OF ROUGH INSTALLATION, DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING, AND VENTILATION EQUIPMENT, ALL DUCTS AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF WATER, DUST, AND DEBRIS, WHICH MAY ENTER THE SYSTEM.

## FINISH MATERIAL POLLUTANT CONTROL CGBSC 4.504.1

## ADHESIVES, SEALANTS AND CAULKS CGBSC 4.405.2.1

ADHESIVES, SEALANTS AND CAULKS USED SHALL MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS UNLESS MORE STRINGENT LOCAL OR REGIONAL AIR POLLUTION OR AIR QUALITY MANAGEMENT DISTRICT RULES APPLY:

- ADHESIVES, ADHESIVE BONDING PRIMERS, SEALANTS, SEALANT PRIMERS AND CAULKS SHALL COMPLY WITH LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY MANAGEMENT DISTRICT RULES WHERE APPLICABLE OR SCAQMD RULE 1168 VOC LIMITS, AS SHOWN IN TABLE 4.504.1 OR 4.504.2, AS APPLICABLE. SUCH PRODUCTS ALSO SHALL COMPLY WITH RULE 1168 PROHIBITION ON THE USE OF CERTAIN TOXIC COMPOUNDS (CHLOROFORM, ETHYLENE, DICHLORIDE, METHYLEN, CHLORIDE, PERCHLOROETHYLENE AND TRICHLOROETHYLENE), EXCEPT FOR AEROSOL PRODUCTS, AS SPECIFIED IN SUBSECTION 2 BELOW.
- AEROSOL ADHESIVES, AND SMALLER UNIT SIZES OF ADHESIVES, AND SEALANT OR CAULKING COMPOUNDS (IN UNITS OF PRODUCT, LESS PACKING, WHICH DO NOT WEIGH MORE THAN 1 POUND AND DO NOT CONSIST OF MORE THAN 16 FLUID OUNCES) SHALL COMPLY WITH STATEWIDE VOC STANDARDS AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS, OR CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94507.

## PAINTS AND COATINGS CGBSC 4.504.2.2

ARCHITECTURAL PAINTS AND COATINGS SHALL COMPLY WITH VOC LIMITS IN TABLE 1 OF THE ARB ARCHITECTURAL SUGGESTED CONTROL MEASURE, AS SHOWN IN TABLE 4.504.3, UNLESS MORE STRINGENT LOCAL LIMITS APPLY. THE VOC CONTENT LIMIT FOR COATINGS THAT DO NOT MEET THE DEFINITIONS FOR THE SPECIALTY COATINGS CATEGORY LISTED IN TABLE 4.504.3 SHALL BE DETERMINED BY CLASSIFYING THE COATING AS FLAT, NONFLAT OR NONFLAT-HIGH GLOSS COATING, BASED ON IT'S GLOSS, AS DEFINED IN SUB-SECTIONS 4.21, 4.36, AND 4.37 OF THE 2007 CALIFORNIA AIR RESOURCES BOARD, SUGGESTED CONTROL MEASURES, AND CORRESPONDING FLAT, NONFLAT OR NONFLAT-HIGH GLOSS VOC LIMIT IN TABLE 4.504.3 SHALL APPLY.

## AEROSOL PAINTS AND COATINGS CGBSC 4.504.2.3

AEROSOL PAINTS AND COATINGS SHALL MEET THE PRODUCT-WEIGHED MIR LIMITS FOR ROC IN SECTION 94522(a)(2) AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS AND OZONE DEPLETING SUBSTANCES, IN SECTIONS 94522(a)(1) OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94520; AND IN AREAS UNDER THE JURISDICTION OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT ADDITIONALLY COMPLY WITH THE PERCENT VOC BY WEIGHT OF PRODUCT LIMITS OF REGULATION 8, RULE 49.

## VERIFICATION CGBSC 4.504.2.4

VERIFICATION OF COMPLIANCE WITH THIS SECTION SHALL BE PROVIDED AT THE REQUEST OF THE ENFORCING AGENCY. DOCUMENTATION MAY INCLUDE, BUT IS NOT LIMITED TO THE FOLLOWING:

- MANUFACTURES PRODUCT SPECIFICATION.
- FIELD VERIFICATION OF ON-SITE PRODUCT CONTAINERS.

## CARPET SYSTEMS CGBSC 4.504.3

ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE TESTING AND PRODUCT REQUIREMENTS OF ONE OF THE FOLLOWING:

- CARPET AND RUG INSTITUTES GREEN LABEL PLUS PROGRAM.
- CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS, VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350)
- NSF/ANSI 140 AT THE GOLD LEVEL
- SCIENTIFIC CERTIFICATIONS SYSTEMS INDOOR ADVANTAGE.

## CARPET CUSHIONS CGBSC 4.505.3.1

ALL CARPET CUSION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CARPET AND RUG INSTITUTE'S GREEN LABEL PROGRAM.

## CARPET ADHESIVE CGBSC 4.504.3.2

ALL CARPET ADHESIVE SHALL MEET THE REQUIREMENTS OF TABLE 4.504.1.

## RESILIENT FLOORING SYSTEMS CGBSC 4.504.4

WHERE RESILIENT FLOORING IS INSTALLED, AT LEAST 80 PERCENT OF FLOOR AREA RECEIVING RESILIENT FLOORING SHALL COMPLY WITH ONE OR MORE OF THE FOLLOWING:

- PRODUCTS COMPLIANT WITH THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS, VERSION 1.1 FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350), CERTIFIED AS CHPS LOW EMITTING MATERIAL IN THE COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CHPS) HIGH PERFORMANCE PRODUCTS DATABASE.
- PRODUCTS CERTIFIED UNDER UL GREENGUARD GOLD (FORMERLY THE GREENGUARD CHILDREN AND SCHOOLS PROGRAM).
- CERTIFICATION UNDER THE RESILIENT FLOOR COVERING INSTITUTE (RFCI) FLOORSOURCE PROGRAM.
- MEET THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, STANDARD METHOD OF TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS, VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350)

## COMPOSITE WOOD PRODUCTS CGBSC 4.504.5

HARDWOOD PLYWOOD, PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET THE REQUIREMENTS FOR FORMALDEHYDE AS SPECIFIED IN ARB'S AIR TOXIC CONTROL MEASURE FOR COMPOSITE WOOD (17 CCR 93120 ET SEQ) BY OR BEFORE THE DATES SPECIFIED IN THOSE SECTIONS IN TABLE 4.504.5.

## DOCUMENTATION CGBSC 4.504.5.1

VERIFICATION OF COMPLIANCE WITH THIS SECTION SHALL BE PROVIDED AS REQUESTED BY THE ENFORCING AGENCY. DOCUMENTATION SHALL INCLUDE AT LEAST ONE OF THE FOLLOWING:

- PRODUCT CERTIFICATIONS AND SPECIFICATIONS.
- CHAIN OF CUSTODY CERTIFICATIONS.
- PRODUCT LABELED AND INVOICED AS MEETING THE COMPOSITE WOOD PRODUCTS REGULATION (SEE CCR TITLE 17, SECTION 93120, ET SEQ.)
- EXTERIOR GRADE PRODUCTS MARKED AS MEETING THE PS-1 OR PS-2 STANDARDS OF THE ENGINEERED WOOD ASSOCIATION, THE AUSTRALIAN AS/NZS 2269, EUROPEAN 636 35, AND CANADIAN CSA 0121, CSA 0151, CSA 0153, AND CSA 0325 STANDARDS.
- OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY.

## TABLE 4.504.5

### FORMALDEHYDE LIMITS

### MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLEBOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD	0.13

## INTERIOR MOISTURE CONTROL CGBSC 4.505

## CONCRETE SLAB FOUNDATION CGBSC 4.505.2

### CAPILLARY BREAK CGBSC 4.505.2.1

A CAPILLARY BREAK SHALL BE INSTALLED IN COMPLIANCE WITH AT LEAST ONE OF THE FOLLOWING:

- A 4 INCH THICK (101.6 MM) BASE OF 1/2" (12.7 MM) OR LARGER CLEAN AGGREGATE SHALL BE PROVIDED WITH A VAPOR RETARDER IN DIRECT CONTACT WITH CONCRETE AND A CONCRETE MIX DESIGN, WHICH WILL ADDRESS BLEEDING, SHRINKAGE AND CURLING, SHALL BE USED. FOR ADDITIONAL INFORMATION, SEE AMERICAN CONCRETE INSTITUTE, ACI 302.2R-06.
- OTHER EQUIVALENT METHODS APPROVED BY THE ENFORCING AGENCY.
- A SLAB DESIGN SPECIFIED BY A LICENSED DESIGN PROFESSIONAL.

## MOISTURE CONTENT OF BUILDING MATERIALS CGBSC 4.505.3

BUILDING MATERIALS WITH VISIBLE SIGNS OF WATER DAMAGE SHALL NOT BE INSTALLED. WALL AND FLOOR FRAMING SHALL NOT BE ENCLOSED WHEN THE FRAMING MEMBERS EXCEED 19 PERCENT MOISTURE CONTENT. MOISTURE CONTENT SHALL BE VERIFIED IN COMPLIANCE WITH THE FOLLOWING:

- MOISTURE CONTENT SHALL BE DETERMINED WITH EITHER A PROBE-TYPE OR CONTENT-TYPE MOISTURE METER. EQUIVALENT MOISTURE VERIFICATION METHODS MAY BE APPROVED BY THE ENFORCING AGENCY AND SHALL SATISFY REQUIREMENTS FOUND IN SECTION 101.8 OF THIS CODE (CGBSC)
- MOISTURE READINGS SHALL BE TAKEN AT A POINT 2 FEET TO 4 FEET FROM GRADE STAMPED END OF EACH PIECE TO BE VERIFIED.
- AT LEAST 3 RANDOM MOISTURE READINGS SHALL BE PERFORMED ON WALL AND FLOOR FRAMING WITH DOCUMENTATION ACCEPTABLE TO THE ENFORCING AGENCY PROVIDED AT THE TIME OF APPROVAL TO ENCLOSE THE WALL AND FLOOR FRAMING.

INSULATION PRODUCTS THAT ARE VISIBLY WET OR HAVE HIGH MOISTURE CONTENT SHALL BE REPLACED OR ALLOWED TO DRY PRIOR TO ENCLOSURE IN WALL OR FLOOR CAVITIES. WET-APPLIED INSULATION PRODUCTS SHALL FOLLOW THE MANUFACTURERS DRYING RECOMMENDATIONS PRIOR TO ENCLOSURE.

## INDOOR AIR QUALITY AND EXHAUST CGBSC 4.506

### BATHROOM EXHAUST FANS CGBSC 4.506.1

EACH BATHROOM SHALL BE MECHANICALLY VENTILATED AND SHALL COMPLY WITH THE FOLLOWING:

- FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING.
- UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY A HUMIDITY CONTROL.
  - HUMIDITY CONTROLS SHALL BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF <50 PERCENT TO A MAXIMUM OF 80 PERCENT. A HUMIDITY CONTROL MAY UTILIZE MANUAL OR AUTOMATIC MEANS OF ADJUSTMENT.
  - A HUMIDITY CONTROL MAY BE A SEPARATE COMPONENT TO THE EXHAUST FAN AND IS NOT REQUIRED TO BE INTEGRAL (BUILT-IN).

## NOTES:

- FOR THE PURPOSE OF THIS SECTION, A BATHROOM IS A ROOM WHICH CONTAINS BATHTUB, SHOWER, OR TUB/SHOWER COMBINATION.
- LIGHTING INTEGRAL TO BATHROOM EXHAUST FANS SHALL COMPLY WITH THE CALIFORNIA ENERGY CODE.

## ENVIRONMENTAL COMFORT CGBSC 4.507

### HEATING AND AIR CONDITION SYSTEM DESIGN CGBSC 4.507.2

HEATING AND AIR CONDITIONING SYSTEMS SHALL BE SIZED, DESIGNED AND HAVE THEIR EQUIPMENT SELECTED USING THE FOLLOWING METHODS:

- THE HEAT LOSS AND HEAT GAIN IS ESTABLISHED ACCORDING TO ANSI/ACCA 2 MANUAL J - 2011 (RESIDENTIAL LOAD CALCULATION), ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
- DUCT SYSTEMS ARE SIZED ACCORDING TO ANSI/ACCA 1 MANUAL D - 2014 (RESIDENTIAL DUCT SYSTEMS) ASHRAE\_HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
- SELECT HEATING AND COOLING EQUIPMENT ACCORDING TO ANSI/ACCA 3 MANUAL S - 2014 (RESIDENTIAL EQUIPMENT SELECTION) OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.

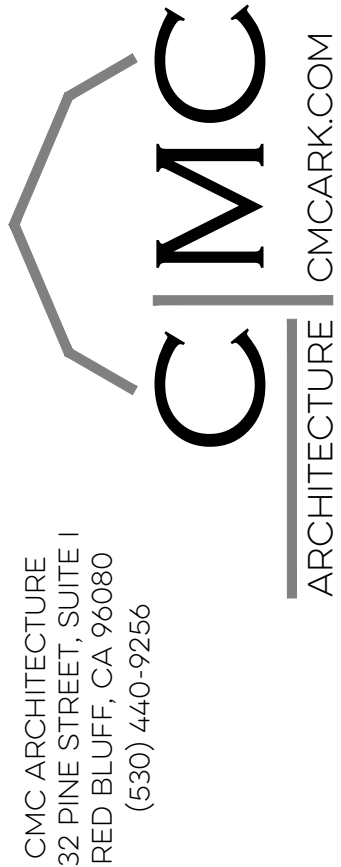
EXCEPTION: USE OF ALTERNATE DESIGN TEMPERATURES NECESSARY TO ENSURE THE SYSTEM'S FUNCTIONS ARE ACCEPTABLE.

DATE	08/22/2022	JOB NUMBER	---	CADD FILE	---
REVISIONS					
SHEET					
08/22/2022					



CALIFORNIA GREEN BUILDING STANDARD (RES)  
SMALL ACCESSORY DWELLING UNIT - (461 SQ FT ONE BEDROOM)

CITY OF RED BLUFF  
555 WASHINGTON  
RED BLUFF, CA 96080  
APN: ---



CMC ARCHITECTURE  
3301 THE GARDENS  
RED BLUFF, CA 96080  
(530) 440-9260

## SHEET

AE2

PERMIT SET



CONSTRUCTION NOTES

UNLESS OTHERWISE SPECIFICALLY SHOWN ON THE DRAWINGS, THE FOLLOWING NOTES SHALL APPLY THROUGHOUT THIS CONSTRUCTION. ALL WORK SHALL BE IN COMPLIANCE WITH THE CURRENT EDITIONS OF THE CALIFORNIA BUILDING CODES AND ANY STATE LAW OR LOCAL ORDINANCES PERTAINING TO THE WORK BEING PERFORMED. THE CONTRACTOR SHALL VERIFY THESE REQUIREMENTS PRIOR TO BEGINNING ANY WORK.

INTERPRETATION OF DRAWINGS

- 1. REFER TO ARCHITECTURAL DRAWINGS TO COORDINATE WITH STRUCTURAL DRAWINGS.
- 2. COMPARISON OF ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL BE MADE BY THE GENERAL CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION, AND ALL DIMENSIONS SHALL BE CHECKED BY THE SAME BEFORE STARTING WORK.
- 3. ANY DISCREPANCY BETWEEN ABOVE MENTIONED DRAWINGS SHALL BE REFERRED TO THE ENGINEER FOR FURTHER CLARIFICATION BEFORE STARTING CONSTRUCTION.
- 4. IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS OR CALLED FOR IN THE GENERAL NOTES OR SPECIFICATION, THEN THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR CALLED FOR.

FOUNDATIONS

- 1. ALLOWABLE SOIL PRESSURE IS 1500 psf FOR DEAD PLUS LIVE LOADS W/ ALLOWABLE INCREASES FOR SEISMIC OR WIND AND AS PER CHAPTER 18 C.R.C.
- 2. BOTTOM OF ALL FOOTINGS, EXCEPT THICKENED SLABS, SHALL EXTEND TO ELEVATIONS MARKED ON FOUNDATION PLAN OR DETAILS, BUT IN NO CASE LESS THAN 12" BELOW EXISTING OR FINISHED GRADE, WHICHEVER IS LOWER.

CONCRETE

- 1. PERFORMANCE STANDARD SHALL CONFORM TO APPLICABLE CODES AND REGULATIONS PER LOCAL, STATE, OR FHA, WHICHEVER IS MORE RESTRICTIVE.
- 2. VERIFY LOCATION AND REQUIREMENTS FOR UNDERGROUND WORK AND WORK EMBEDDED IN SLABS, INCLUDING UTILITY SERVICE, SANITARY SEWER, DRAINAGE, AND IRRIGATION PRIOR TO START OF WORK. SPECIAL COORDINATION WITH UTILITY COMPANIES WILL BE REQUIRED TO COORDINATE GAS, ELECTRIC, CABLE, AND WATER SERVICE LINES.
- 3. ALL FOOTINGS SHALL REST ON FIRM UNDISTURBED OR COMPACTED SOIL.
- 4. ALL CONCRETE REINFORCEMENT IS TO BE INTERMEDIATE GRADE, DEFORMED BARS, TO COMPLY WITH ASTM DESIGNATION A-615 AND SHALL BE 40KSI MINIMUM, U.N.O.
- 5. AT HORIZONTAL AND VERTICAL SPLICES, THE REINFORCING BARS SHALL LAP 36 DIAMETERS MINIMUM FOR #5 OR LARGER BARS, AND 1'-6" FOR #3 AND #4 BARS.
- 6. ALL REINFORCING SHALL HAVE A MINIMUM CLEAR COVERAGE AS FOLLOWS:
  - 3" IN FOOTINGS WHERE POURED AGAINST EXCAVATION.
  - 2" IN FOOTINGS WHERE FORMED BOTH SIDES AND WALLS BELOW GRADE.
  - 1" IN WALLS ABOVE GRADE.
  - 1" IN SLABS.
  - 1- 1/2" IN BEAMS.
- 7. SLABS ON GRADE SHALL BE 4" THICK AND SHALL BE REINFORCED WITH 6X6 W1.4 X W1.4 WIRE MESH AT CENTER OF SLAB. U.N.O.
- 8. AT THE END OF 28 DAYS, CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2500 psi FOR SLABS ON GROUND, AND 2500 psi FOR FOOTINGS AND GRADE BEAMS AND STRUCTURAL WALLS.
- 9. SLABS SHALL BE PLACED ON 2" SAND BED AND A WATERPROOF MEMBRANE SHALL BE PLACED DIRECTLY UNDER THE SAND BED, U.N.O.
- 10. PROVIDE 4 MIL POLYETHYLENE SHEET MOISTURE BARRIER MINIMUM BELOW SLAB AT LIVING AREAS. LAP POINTS 12" MINIMUM. (IF APPLICABLE)
- 11. NOT USED
- 12. CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED AND HEAVILY ROUGHENED SO AS TO EXPOSE COARSE AGGREGATE.
- 13. ALL ANCHOR BOLTS TO BE 1/2" DIAMETER X 10" LONG UNLESS NOTED AND SHALL HAVE 3 x 3 x .229" SQUARE WASHERS WHERE HEAD OR BOLT BEARS ON WOOD.
- 14. ALL FRAMING HARDWARE SHALL BE "SIMPSON" OR EQUAL.
- 15. MAXIMUM SLUMP FOR ALL CONCRETE SHALL BE 4".
- 16. APPLY APPROVED CURING COMPOUND ON FINISHED CONCRETE SURFACES, OR MAINTAIN MOISTENED CONDITION FOR (5) FIVE DAYS AFTER PLACEMENT.
- 17. VERIFY LOCATIONS FOR ANCHOR BOLTS AT ENDS OF EACH SECTION OF WOOD SILLS OR PLATES BEFORE PLACING CONCRETE. PROVIDE ANCHOR BOLTS OR SIMPSON MAS WITH 12" OF THE END OF EXTERIOR AND BEARING WALLS.

CONCRETE BLOCKS

- 1. ALL CELLS IN PIERS, THREE CELLS AT CORNERS OF WALLS, AND CELLS AT EACH SIDE OF OPENINGS SHALL BE FILLED WITH GROUT AND REINFORCED. ALL CELLS SHALL BE GROUTED SOLID WHEN CALLED OUT ON PLANS.
- 2. VERTICAL CELLS CONTAINING REINFORCING BARS, ANCHORS, BOLTS, DOWELS OR STRAPS SHALL BE FILLED WITH GROUT.
- 3. 8" WALLS SHALL BE REINFORCED WITH #4 VERTICAL BARS @ 24" O.C. MAXIMUM. U.N.O. PROVIDE THREE REINFORCED VERTICAL CELLS AT CORNERS WITH #4 VERTICAL. U.N.O.
- 4. BOND BEAMS WITH 2- #4 HORIZONTAL BARS SHALL OCCUR AT 4'0" O.C. MAXIMUM, AND AT TOP OF WALLS, U.N.O.
- 5. WINDOW AND DOOR OPENINGS SHALL BE REINFORCED WITH 2- #4 REBAR. 4- #4 TOTAL IMMEDIATELY OVER OPENINGS, BARS TO EXTEND 2'-0" MINIMUM EACH SIDE OF OPENING, U.N.O.
- 6. ALL HORIZONTAL WALL STEEL SHALL BE SPLICED WITH 40 BAR DIAMETER MINIMUM LAP AT CORNERS AND INTERSECTIONS. ALL DOWELS EXTENDING OUT OF FOOTINGS SHALL HAVE A 40 BAR DIAMETER LAP.
- 7. VERTICAL LIFTS FOR EACH POUR SHALL NOT EXCEED 4'-6" WITHOUT CLEAN-OUT OPENINGS.
- 8. ALL CELLS IN RETAINING WALLS OR UNDER GRADE SHALL BE FILLED SOLID WITH GROUT.
- 9. MINIMUM MASONRY DESIGN STRENGTH:
  - A. MINIMUM MASONRY UNIT STRENGTH, Fm =1500 psi MIN.
  - B. MORTAR TYPE & STRENGTH, Fc =1800 psi MIN.
  - C. GROUT STRENGTH, Fc =2000 psi MIN.

STRUCTURAL STEEL

- 1. THE STEEL CONTRACTOR SHALL PROVIDE, WHERE NECESSARY, TEMPORARY BRACING DURING ERECTION OF STRUCTURAL STEEL.
- 2. SEE CARPENTRY SECTION FOR BOLTS, PLATES, ANGLES ETC., TO PROVIDE FOR WOOD TO STEEL CONNECTIONS.
- 3. CONNECTIONS NOT SHOWN SHALL CONFORM TO AISC STANDARDS.
- 4. STEEL CONTRACTOR IS TO CHECK IN THE FIELD THE ELEVATIONS OF LEVELING PLATES, ANCHOR BOLTS, ETC., PRIOR TO COMPLETION OF FABRICATION AND MAKE ANY NECESSARY ADJUSTMENTS OF BASE PLATES IN THE SHOP.
- 5. FIELD BURNING TO ENLARGE BOLT HOLES AND WELDING OF BOLTS TO BASE PLATES SHALL NOT BE ALLOWED.
- 6. TUBE STEEL MEMBERS SHALL BE 46 KSI GRADE B, A500 MINIMUM, ALL OTHER STEEL PLATES, SADDLES GUSSETS, ETC. SHALL BE 36 KSI STEEL.
- 7. ALL WELDING SHALL BE PERFORMED W/ E70XX ELECTRODES.
- 8. ALL STRUCTURAL BOLTS SHALL BE ASTM A307, U.N.O.

CARPENTRY

- 1. ALL WOOD FRAMING AND NAILING SHALL CONFORM TO "CONVENTIONAL CONSTRUCTION PROVISION", SEC. 2308, CALIFORNIA BUILDING CODE, CURRENT EDITION AND ANY AMENDMENTS APPROVED BY THE GOVERNING AGENCY.
- 2. VERIFY ALL PLAN DIMENSIONS AND ROUGH OPENING REQUIREMENTS PRIOR TO START OF FRAMING.
- 3. VERIFY SPACE REQUIRED FOR PLENUMS AND DUCTS WITH HEATING CONTRACTOR BEFORE START OF WORK.
- 4. VERIFY SPACE REQUIRED AND COMPLIANCE WITH CODE REQUIREMENTS FOR PIPING AND DRILLING THROUGH STRUCTURAL WOOD MEMBERS BEFORE START OF WORK.
- 5. BEAMS, GIRDERS, POSTS, AND MULLIONS SHALL BE #1 DOUGLAS FIR OR BETTER, U.N.O.
- 6. STUDS, PLATES AND CRIPPLES (STRUCTURAL), #2 DOUGLAS FIR OR BETTER. JACKS AND BLOCKING, UTILITY OR BETTER.
- 7. STUDS IN WALLS SHALL BE SPACED NOT MORE THAN 16" O.C. ALL TRUSSES SHALL BEAR DIRECTLY ON TOP OF STUDS, OR ON DBL. TOP PLATE W/ SOLID 2X BLOCKING BELOW AND BETWEEN STUDS. CORNERS AND INTERSECTIONS OF STUD WALLS SHALL BE FRAMED AS SHOWN OR SOLID.
- 8. AT THE CORNERS AND/OR INTERSECTIONS OF STUD WALLS WHICH HAVE PLYWOOD SHEATHING, THE SHEATHING FROM BOTH WALLS SHALL BE NAILED TO THE SAME STUDS OR POST WITH PERIMETER NAILING. WHERE SUCH CONNECTION IS NOT POSSIBLE, STUDS RECEIVING PLYWOOD SHEATHING FROM EACH WALL SHALL BE NAILED TOGETHER WITH 16d @ 6" O.C.
- 9. WHERE STUD WALLS ABUT MASONRY OR CONCRETE WALLS, END STUD SHALL BE A 2X PRESSURE TREATED MEMBER BOLTED TO MASONRY OR CONCRETE WITH 1/2" X 8" BOLTS @ 2'-8" O.C. AND 6" FROM TOP AND BOTTOM, U.N.O.
- 10. PROVIDE SOLID BLOCKING OR CROSSBRIDGING @ 8'-0" O.C. MAXIMUM BETWEEN JOISTS OR RAFTERS.
- 11. WOOD GIRDERS, BEAMS, JOISTS, AND RAFTERS SHALL BE LIMITED TO CUTS AND BORED HOLES NOT DEEPER THAN ONE - FIFTH OF THE BEAM DEPTH FROM THE TOP, LOCATED NOT FARTHER FROM THE BEAM END THAN 3 TIMES THE BEAM DEPTH.
- 12. NAILERS REQUIRED FOR FINISH MATERIAL OR FIREPROOFING OF STEEL SHALL BE BOLTED TO STEEL AS SPECIFIED. COUNTERSINK BOLTS WHERE THEY INTERFERE WITH FINISH, U.N.O.
- 13. BOLTS BEARING ON WOOD SHALL HAVE STANDARD CAST IRON OR MALLEABLE IRON WASHERS. BOLTS HOLES SHALL BE DRILLED TO THE NET DIAMETER OF BOLTS.
- 14. WHERE PLYWOOD SHEATHING IS USED ON ROOF OR ON FLOOR, SHEETS SHALL BE LAID PERPENDICULAR TO DIRECTION OF JOISTS OR RAFTERS. PLYWOOD SHEETS SHALL BE STAGGERED.
- 15. EDGES OF PLYWOOD SHEETS NOT NAILED TO STUDS, JOISTS OR SOLID BLOCKING SHALL BE BLOCKED AND NAILED TO 2X4 FLAT BLOCKING WITH PERIMETER NAILING. (EXCEPTION FOR ROOF AND FLOOR DIAPHRAGMS, U.N.O.)
- 16. BRACING - ALL EXTERIOR WALL AND MAIN CROSS STUD PARTITIONS SHALL BE EFFECTIVELY AND THOROUGHLY BRACED AT EACH END, OR AS NEAR THERETO AS POSSIBLE AND AT LEAST EVERY 25 FT. OF LENGTH BY ACCEPTABLE ALTERNATE METHODS. SECTION 2308, CRC CURRENT EDITION.
- 17. STUD HEIGHT: UNLESS SUPPORTED Laterally THE MAXIMUM HEIGHT OF STUDS SHALL BE AS FOLLOWS FOR NON-BEARING WALLS ONLY:

SIZE	HEIGHT (MAX.)
2X3	10'-0"
2X4	14'-0"
2X6	20'-0"
3X4	14'-0"
- 18. WALL FRAMING: EXTERIOR AND INTERIOR BEARING WALLS OF BUILDING NOT OVER TWO STORIES IN HEIGHT SHALL BE 2X4 STUDS. FOR THREE STORY BUILDINGS, THE FIRST FLOOR SHALL BE 3X4 OR 2X6 STUDS. UNDERPINNING UNDER TWO STORY BUILDINGS OVER 6'-0" IN LENGTH SHALL BE 3X4 OR 2X6. U.N.O.

DESIGN STRESSES & PROPERTIES FOR GLUE LAMINATED LUMBER

ALL GLUELAM BEAMS SHALL MEET THE FOLLOWING CRITERIA:  
F<sub>b</sub> = 2400 PSI                      F<sub>v</sub> = 165 PSI                      E = 1.8 x 10<sup>6</sup> PSI

DESIGN STRESSES & PROPERTIES FOR MANUFACTURED LUMBER

		G		SHEAR MODULUS OF ELASTICITY (psi)	E MODULUS OF ELASTICITY (psi)	Fb FLEXURAL STRESS (psi)	FcL Ft TENSION STRESS (psi)	COMPRESSION PERPENDICULAR TO GRAIN (psi)	FcII COMPRESSION PARALLEL TO GRAIN (psi)	Fv COMPRESSION SHEAR PARALLEL TO GRAIN (psi)	SG EQUIVALENT SPECIFIC GRAVITY (psi)
TYPE	GRADE	ORIENTATION									
TIMBERSTRAND LSL	1.7E	BEAM	106,250		1.7 x 10 <sup>6</sup>	2,600	1,825	880	2,380	400	.50
MICROLAM LVL	1.9E	BEAM	118,750		1.9 x 10 <sup>6</sup>	2,600	1,555	750	2,510	285	.50
PARALLAM PSL	2.0E	BEAM	125,000		2.0 x 10 <sup>6</sup>	2,900	2,025	750	2,900	290	.50

NAILING SCHEDULE, TO COMPLY WITH 2019 CBC/CRC

- 1. NAILING FOR FRAMING SHALL BE WITH BOX NAILS, NUMBER AND SIZE AS FOLLOWS, EXCEPT AS NOTED OTHERWISE ON PLANS. NAILING TO PRESSURE TREATED LUMBER SHALL BE WITH HOT-DIPPED GALVANIZED OR STAINLESS STEEL NAILS.
- 2. NAILS SHALL NOT BE DRIVEN CLOSER TOGETHER THAN 1/2 THEIR LENGTH, NOR CLOSER TO THE EDGE OF MEMBER THAN 1/4 THEIR LENGTH, EXCEPT FOR SHEATHING. PENETRATION SHALL BE 1/2 THE LENGTH OF NAIL MINIMUM.
- 3. NAILING NOT NOTED BELOW OR ON PLANS AND DETAILS SHALL BE A MINIMUM OF TWO NAILS AT EACH CONTACT, 8d FOR 1" MATERIAL AND 16d FOR 2" MATERIAL.

- 4. WHERE POSSIBLE, NAILS DRIVEN PERPENDICULAR TO THE GRAIN SHALL BE USED INSTEAD OF TOE NAILING.
- 5. HOLES SHALL BE PRE-DRILLED FOR NAILS WHICH TEND TO SPLIT WOOD.
- 6. REQUIRED NAILING AS FOLLOWS:

JOISTS OR RAFTERS TO SIDES OF STUDS  
8" JOISTS OR LESS .....3-16d  
FOR EACH ADDITIONAL 4" IN DEPTH.....1-16d

JOISTS OR RAFTERS AT ALL BEARINGS  
TOE NAILS EACH SIDE.....2-16d

STUDS TO BEARING  
TOE NAILS EACH SIDE.....2-8d

BLOCKING BETWEEN JOISTS OR RAFTERS  
TO JOIST OR RAFTER - TOE NAILS EACH END.....2-8d  
TO JOIST OR RAFTER BEARINGS - TOE NAILS EACH SIDE ..... 2-8d

CROSS BRIDGING BETWEEN JOISTS OR RAFTERS  
TOE NAILS EACH END.....2-8d

BLOCKING BETWEEN STUDS  
EACH END.....2-8d TOE NAILS OR 2-16d END NAILS

TRUSSES OR RAFTERS TO PLATE  
TOE NAIL ONE SIDE..... 2-16d  
OTHER SIDE (BACKNAIL) ..... 1-16d

DOUBLE TOP PLATES  
LOWER PLATE TO TOP OF STUD ..... 2-16d  
UPPER PLATE TO LOWER PLATE .....16d @ 12" STAGGERED  
UPPER PLATE TO LOWER PLATE AT INTERSECTION ..... 3-16d  
UPPER PLATE TO LOWER PLATE @ 4'-0" MIN. LAP .....16d @ 6" O.C.

MULTIPLE STUDS..... 16d @ 12"

MULTIPLE POSTS ..... 1/2" DIAMETER BOLTS @ 2'-8" O.C.

MULTIPLE JOIST  
10" OR LESS IN DEPTH.....16d @ 12" STAGGERED  
MORE THAN 10" DEEP .....1/2" BOLTS @ 24" STAGGERED

NAILING OF PLYWOOD (UNLESS OTHERWISE SPECIFIED)

LOCATION	THICKNESS	EDGE NAIL	FIELD NAIL
* ROOF	1/2"	8d @ 6" O.C.	8d @ 12" O.C.
* FLOORS	5/8"	10d @ 6" O.C.	10d OR 8d RING SHANK @ 10" O.C.
* WALLS	3/8" 1/2"	8d @ 6" O.C. 8d @ 6" O.C.	8d @ 12" O.C. 8d @ 12" O.C.

\* NAILING FOR ALL SHEAR WALLS, ROOFS AND FLOORS SHALL BE COMMON NAILS PER C.B.C. TABLES

PLYWOOD GRADES

FLOORS	CDX - T&G APA SPAN RATED 32/16. FACE GRAIN PERPENDICULAR TO JOIST.
ROOF	CDX - APA APPROVED PLYCLIPS AT UNSUPPORTED EDGES OVER 24" APA SPAN RATED 24/0.

SHEAR PANELS CDX APA, FACE GRAIN UP FULL HEIGHT. NO HORIZONTAL JOINTS.

NAILING OF GYPSUM WALLBOARD

LOCATION	THICKNESS	EDGE NAIL	FIELD NAIL
WALLS	1/2" 5/8"	5d COOLER @ 7" O.C. 6d COOLER @ 7" O.C.	5d COOLER @ 7" O.C. 6d COOLER @ 7" O.C.
CEILINGS	1/2" 5/8"	5d COOLER @ 6" O.C. 6d COOLER @ 6" O.C.	5d COOLER @ 6" O.C. 6d COOLER @ 6" O.C.

3/8" MINIMUM EDGE DISTANCE

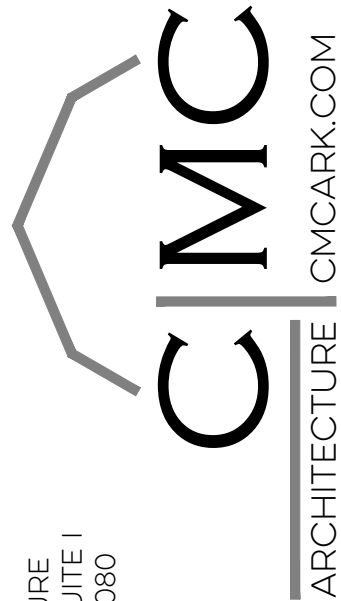
GYPSUM WALLBOARD WALLS, SPECIFIED FOR USE AS SHEAR WALLS, SHEETS SHALL BE INSTALLED VERTICALLY WITH ALL EDGES BLOCKED.

GYPSUM WALLBOARD FOR THE RATED ASSEMBLIES SHALL BE INSTALLED AS PER THE ASSEMBLY REQUIREMENTS.

DESIGN CRITERIA:

WIND LOAD EXP B (3 SEC. GUST)..... 110 MPH  
FLOOR LIVE LOAD / ROOF LIVE LOAD... NA / 20 psf  
SEISMIC DESIGN CATEGORY..... D  
SOIL CLASS..... D

STRUCTURAL NOTES  
SMALL ACCESSORY DWELLING UNIT - (461 SQ FT - ONE BEDROOM)



CMC ARCHITECTURE  
332 FINE STREET, SUITE 1  
RED BLUFF, CA 96080  
(530) 440-9256

SHEET

S1

PERMIT SET

REVISIONS

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DATE

08/22/2022

JOB NUMBER

GOOD FILE

SEAL

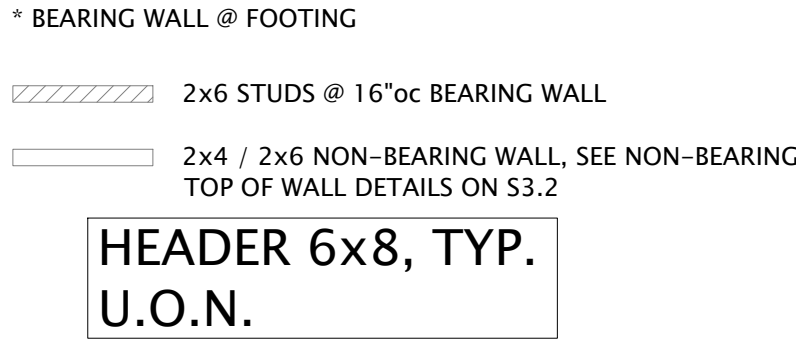
08/22/2022

ANTONETTE HARRIS, MOWE  
C-35355  
RENEWAL:2/28/23  
STATE OF CALIFORNIA

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WALL LEGEND:



BRACE WALL SCHEDULE:

OPTIONAL APPLICATION (REQUIRED WHERE INDICATED)  
APPLY STRUCTURAL SHEATHING TO ENTIRE EXTERIOR SURFACE OF BUILDING  
(WILL BE UNDERLAYMENT FOR LAP SIDING EXTERIOR FINISH)  
3/8" CDX (OR OSB, SEE BELOW), 8d @ 6"oc EDGES, 12"oc FIELD

P CONVENTIONAL FRAMING SATISFACTORY THIS APPLICATION  
BRACED WALL PANEL PER CRC R602.10  
SHEATHING AS INDICATED ABOVE @ MINIMUM LENGTH SHOWN

C CONVENTIONAL FRAMING SATISFACTORY THIS APPLICATION  
BRACED WALL PANEL PER CRC R602.10  
SAME AS "P" >CONTINUOUSLY TO ENTIRE WALL<

A CONVENTIONAL FRAMING SATISFACTORY THIS APPLICATION  
ALTERNATE BRACED WALL PANEL PER CRC R602.10.6.1  
2'-10" MINIMUM PANEL LENGTH, 10' MAXIMUM WALL HEIGHT  
3/8" CDX (OR OSB, SEE BELOW), 8d @ 4"oc EDGES, 12"oc FIELD

AB  
S3.1

..Use common or galvanized box nails (8d Common = 0.131" x 2 1/2")  
..Always use 16" min. (U.O.N.) wide pieces of sheathing on shearwalls  
..Nail heads shall not penetrate sheathing  
..Edge nail sheathing @ shearwall boundary (plate, post or stud) & at holdown posts  
[2x full depth b'king REQUIRED @ horiz. sheathing joints U.O.N.]  
..Okay to use 1/2" sh'ng w/ same nailing where 3/8" sh'ng specified  
..OSB may be used instead of CDX plywood & must be labeled as "APA rated sheathing".  
3/8" CDX ==> 3/8" or 7/16" OSB 1/2" CDX ==> 15/32" OSB

EDGE NAIL SHEATHING TO HOLDOWN POST OR STUD

FOUNDATION NOTES:

\* ASSUMED SOIL ALLOWABLE BEARING USE 1500 PSF  
CONTRACTOR AND/OR OWNER IS SOLELY RESPONSIBLE FOR VERIFYING THAT  
THE SOIL CONDITIONS @ THE BUILDING SITE ARE OF ADEQUATE INTEGRITY TO SUPPORT  
THE STRUCTURE. AT MINIMUM, VERIFY BEARING ON NATIVE SOIL OR ENGINEERED FILL.  
IF NECESSARY, CONSULT A GEOTECHNICAL ENGINEER.  
\* CONTRACTOR AND/OR OWNER IS SOLELY RESPONSIBLE FOR PROVIDING PROPER DRAINAGE  
AROUND THE STRUCTURE (2% AWAY, MIN., OR AS REQ'D).  
THIS INCLUDES PROPERLY GRADING THE SITE AND IMPLEMENTING ANY DRAINAGE SYSTEMS OR  
EROSION CONTROL MEASURES AT OR NEAR THE STRUCTURE TO PREVENT ANY KIND OF WATER  
DAMAGE TO THE STRUCTURE.  
\* IF THE STRUCTURE IS BUILT >>> ON OR NEAR <<< GROUND SLOPING MORE THAN 1:4,  
THEN ALERT THE DESIGNER FOR POSSIBLE COMPLIANCE ISSUES w/ CRC R403.1.7.  
STRUCTURE MUST BE SET BACK @ LEAST 15' FROM THE TOP OR BOTTOM CREST OF ANY  
SLOPES ON THE SITE (CONTACT DESIGNER FOR ACCEPTABLE ALTERNATIVES).

\* ALL CONCRETE FOR FOOTINGS TO HAVE A 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI  
(5 SACK CEMENT PER CUBIC YARD ==>> SUGGESTED MINIMUM 3000 PSI @ PATIO  
>>SUGGEST (NOT REQ'D)<< CONCRETE SHOULD BE VIBRATED TO ELIMINATE VOIDS AND  
PROMOTE BONDING w/ STEEL  
\* ALL FOOTING STEEL TO BE GRADE 40 MIN.  
\* CONNECTORS @ P.T. SILL TO BE IN COMPLIANCE w/ CRC R402.1.1/ CBC 2304.9.5  
HOT-DIP GALV. OR STAINLESS STEEL NAILS /// HOT-DIP GALV. OR ZINC COATED ANCHOR  
BOLTS  
\* ANCHOR BOLTS TO BE 1/2" BOLTS @ 48"oc (MAX.) w/ 7" MIN. EMBED. (CRC R403.1.6/ CBC 2308.6)  
- ALL CAST IN PLACE BOLTS TO HAVE EMBEDDED HEAD OR 'J' BEND INTO CONCRETE  
- ALL BOLTS REQUIRE 3" x 3" x 1/4" PLATE WASHERS (CRC R403.1.6.1/ CBC 2308.12.)  
SLOT IN PLATE WASHER (1 3/4" MAX. LENGTH) OKAY IF STANDARD CUT WASHER ALSO USED

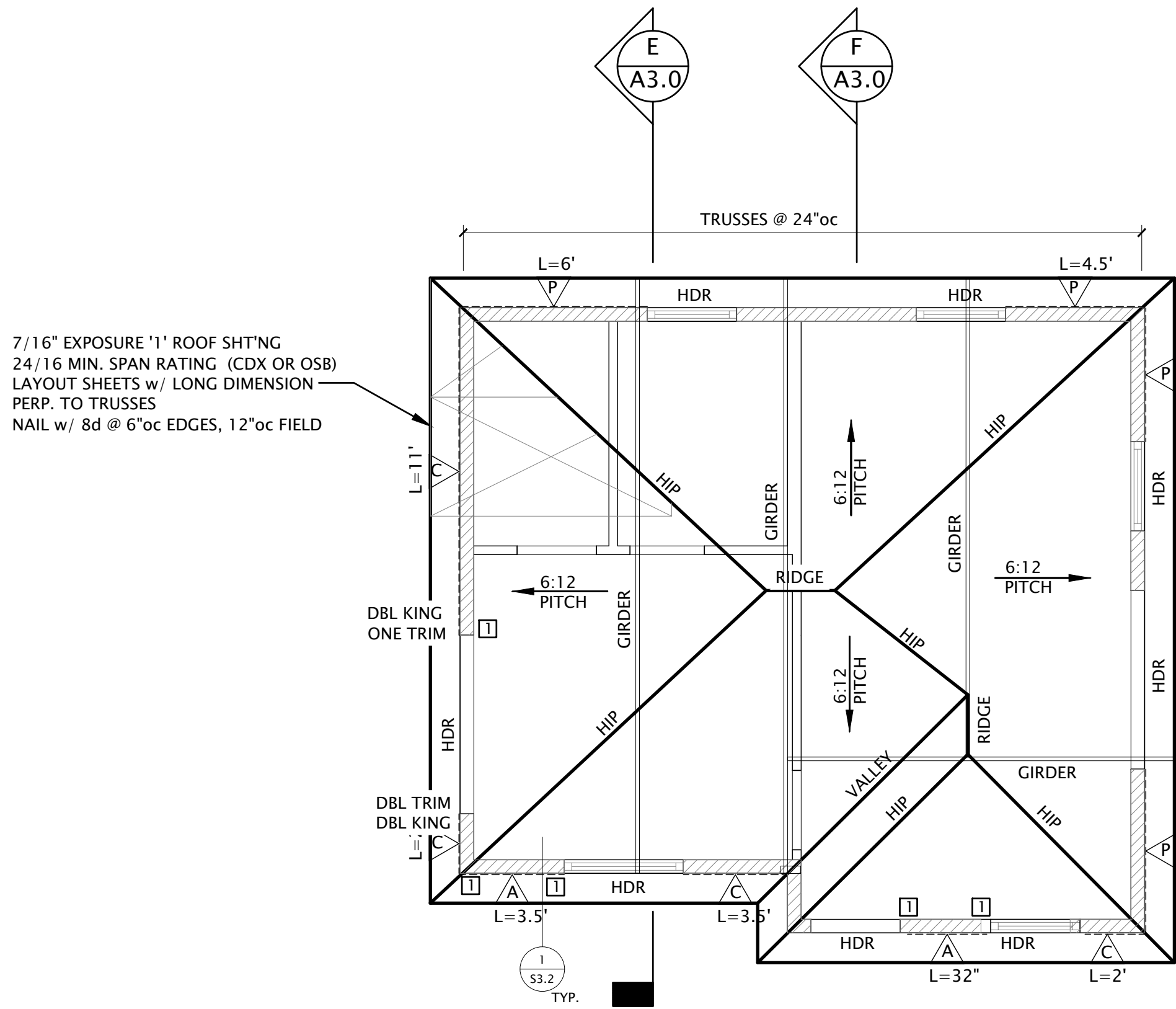
SLAB NOTES:

SLAB @ DWELLING:  
3 3/4" (MIN) CONCRETE SLAB (CRC R506.1)  
USING 4" MIN. IS >SUGGESTED<  
STEEL AT MID-DEPTH (#3 @ 24"oc E.W. OR 6x6 - W4.0 x W4.0)  
O/ OPTIONAL/SUGGESTED 2" (HOLD) SAND  
O/ 15 MIL VAPOR BARRIER  
O/ 4" (MIN) FREE-DRAINING GRAVEL BASE (6" TO 1')

HOLD DOWN LEGEND

\* CONTRACTOR TO COORDINATE HOLDOWN BOLT LOCATIONS W/ FRAMING PLAN  
AND TIE ALL HOLDOWN BOLTS INTO PLACE PRIOR TO CONCRETE PLACEMENT.  
HTT4 HOLDOWN W/ DBL FULL HEIGHT STUDS (KING @ OPENING)  
LAMINATED TOGETHER W/ 16d @ 6"oc & W/ SSTB20 ANCHOR  
@ FOUNDATION LEVEL

TRUSS NOTES:  
TRUSS MEMBERS SHALL NOT BE CUT, NOTCHED, DRILLED, SPLICED OR  
OTHERWISE ALTERED IN ANY WAY WITHOUT THE APPROVAL OF A REGISTERED DESIGN PROFESSIONAL.  
ALTERATIONS RESULTING IN THE ADDITION OF LOAD SUCH AS HVAC EQUIPMENT, WATER HEATER, THAT  
EXCEEDS THE DESIGN LOAD FOR THE TRUSS SHALL NOT BE PERMITTED WITHOUT VERIFICATION THAT THE  
TRUSS IS CAPABLE OF SUPPORTING SUCH ADDITIONAL LOADING. [R802.10.4]



ACTUAL TRUSS GIRDER  
LOCATIONS PER TRUSS  
LAYOUT PLAN  
HEADER TBD @ GIRDER

2 ROOF FRAMING PLAN  
SCALE: 1/4" = 1'-0"

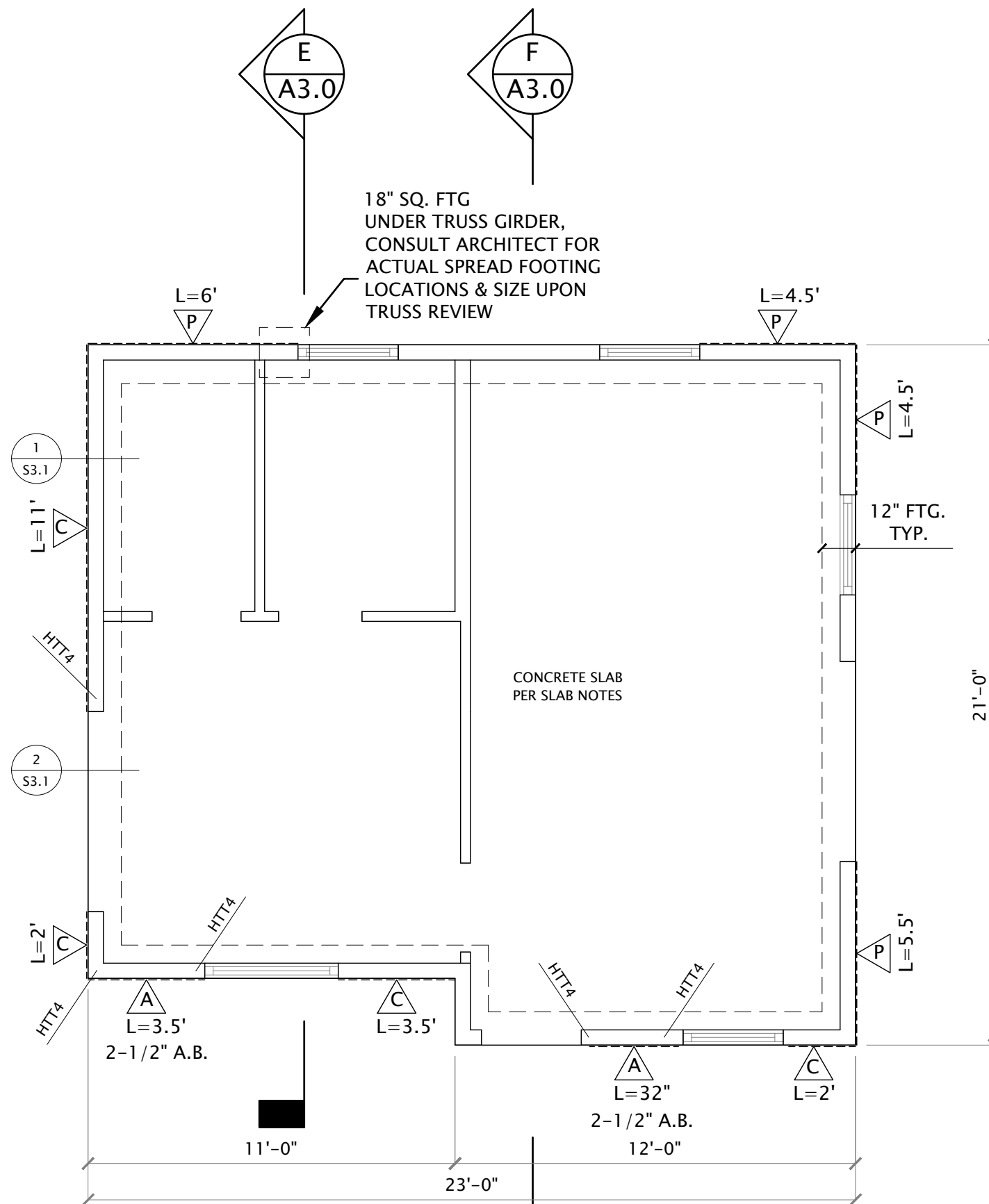
FRAMING NOTES:

\* EXTERIOR FRAMING:  
- 2x DF#2 STUDS @ 16"oc /// (2) 2x TOP PLATE /// 6x8 (MIN) HDR U.N.O.  
- STANDARD TOP PLATE SPLICES ==> LAP 48" w/ 12-16d >>EACH SIDE<< OF UPPER SPLICE  
- ALL 4x LUMBER TO BE DF #2 (U.N.O.) /// ALL 6x LUMBER TO BE DF #1

\* INSTALL ALL HARDWARE WITH CONNECTORS PER MANUFACTURER'S  
SPECIFICATIONS, U.O.N. (HARDWARE USES COMMON NAILS, U.O.N.)

\* ALL 16d NAILS @ LUMBER/LUMBER CONNECTIONS CAN BE SINKER NAILS, U.O.N.  
ALL NAILS @ HARDWARE CONNECTIONS TO BE COMMON NAILS, U.O.N.  
(SINKER NAILS ARE 0.148" x 3 1/4" OR USE 0.131" x 3" PER TABLE R602.3 (1))

1 DBL STUD (KING @ OPENING) w/ HTT4 (14-16d @ 0.163" x 2 1/2")  
NAIL DBL STUD TOGETHER W/ 16-16d (WELL SPACE)



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

FOUNDATION / ROOF FRAMING PLAN - PINE  
SMALL ACCESSORY DWELLING UNIT - (461 SQ FT - ONE BEDROOM)

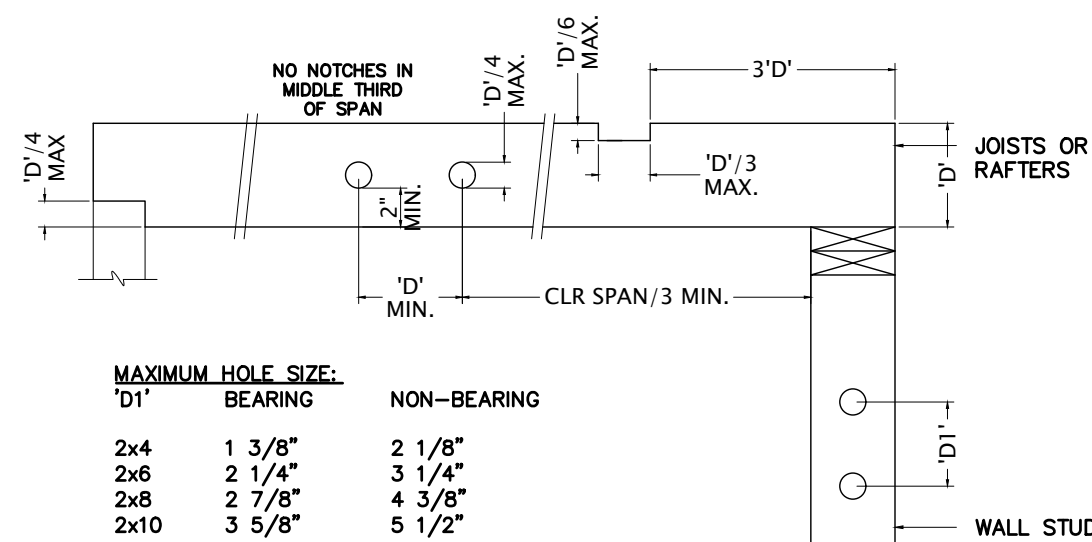
CITY OF RED BLUFF  
555 WASHINGTON  
RED BLUFF, CA 96080  
APR.

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CMC ARCHITECTURE  
3301 RED BLUFF AVENUE, SUITE 1  
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SHEET

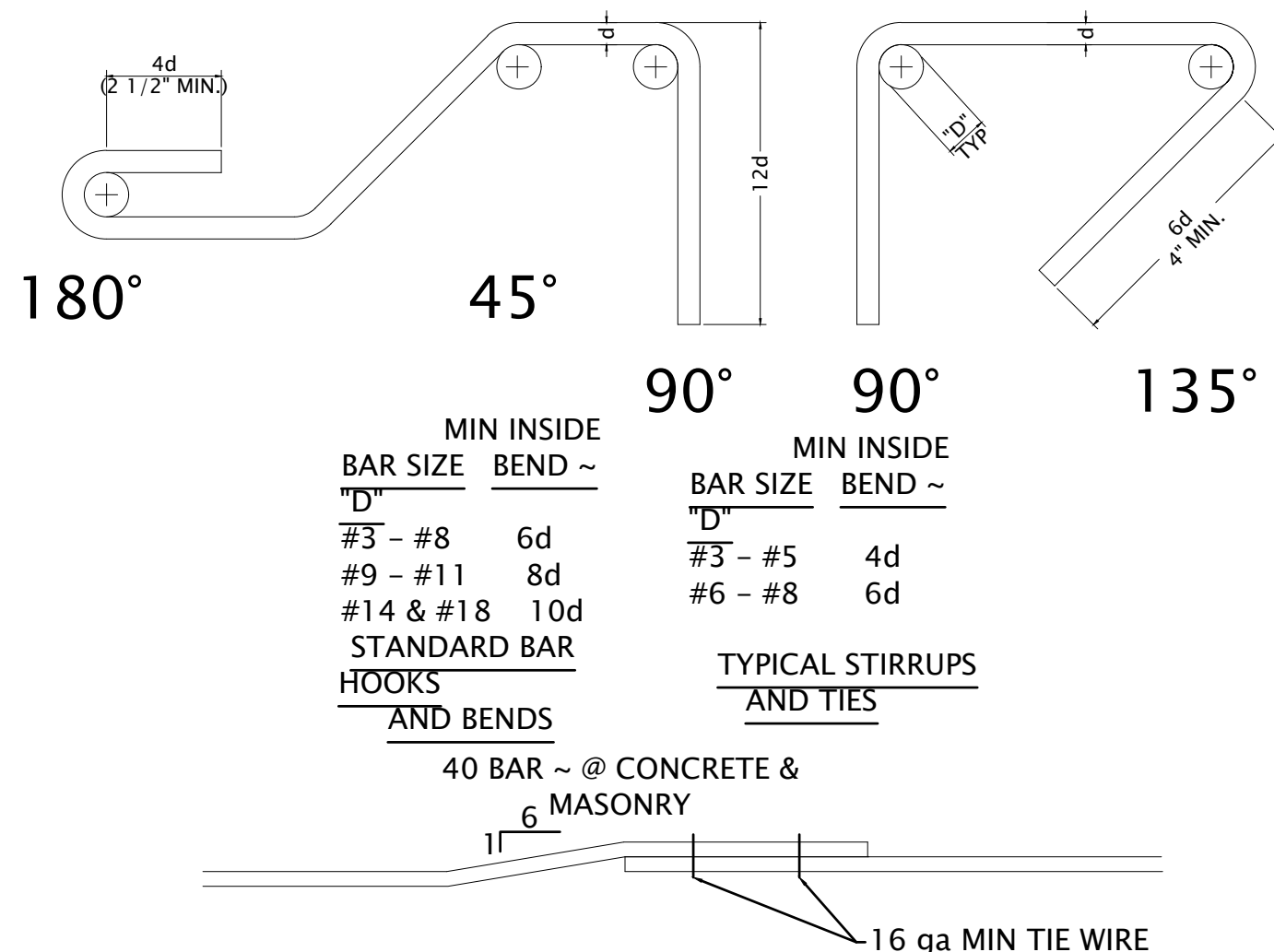
S2  
PRELIMINARY SET



- NOTES:
1. PREDRILL CORNERS OF NOTCHES SO AS NOT TO OVER CUT.
  2. NOTCHES ON THE ENDS OF JOISTS AND HEADERS SHALL NOT EXCEED 1/4 OF THE JOIST DEPTH.
  3. NOTCHES IN THE BOTTOM OF JOISTS ALLOWED ONLY WHERE SPECIFICALLY SHOWN ON THE DRAWINGS.
  4. NOTCHES IN THE TOP OF JOISTS SHALL NOT EXCEED 1/16 OF THE DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE 1/3 OF THE SPAN.
  5. HOLES BORED IN THE JOIST SHALL NOT BE WITHIN 2 INCHES OF THE TOP OR BOTTOM AND SHALL NOT HAVE A DIAMETER LARGER THAN 1/4 OF THE DEPTH OF THE JOIST.

### HOLES & NOTCH

NO SCALE

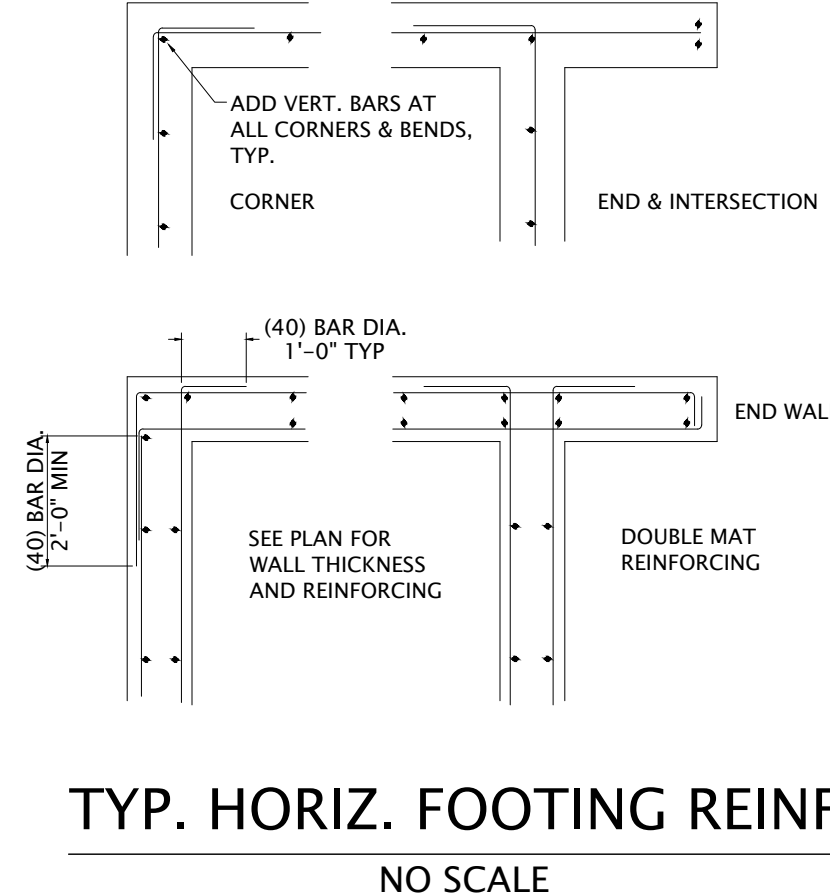


### TYP. RE-BAR HOOKS & BENDS

NO SCALE

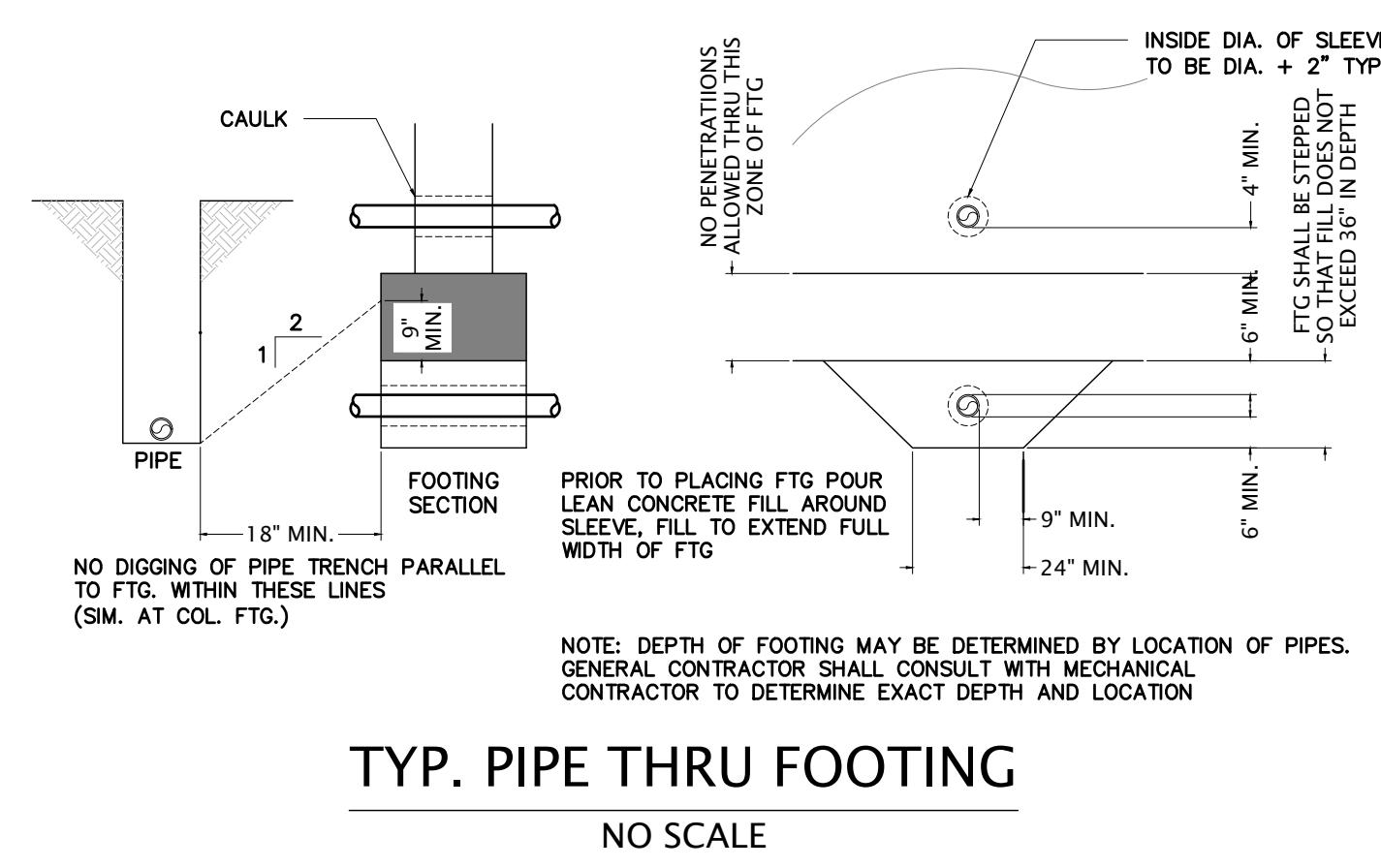
NOTE:  
VERIFY ALL REBAR IN FOOTINGS  
WITH THE FOUNDATION PLAN

NOTE:  
ALL SILL PLATES FOR SHEAR WALLS IN CONTACT  
WITH CONCRETE SHALL BE DOUGLAS FIR  
PRESSURE TREATED LUMBER.



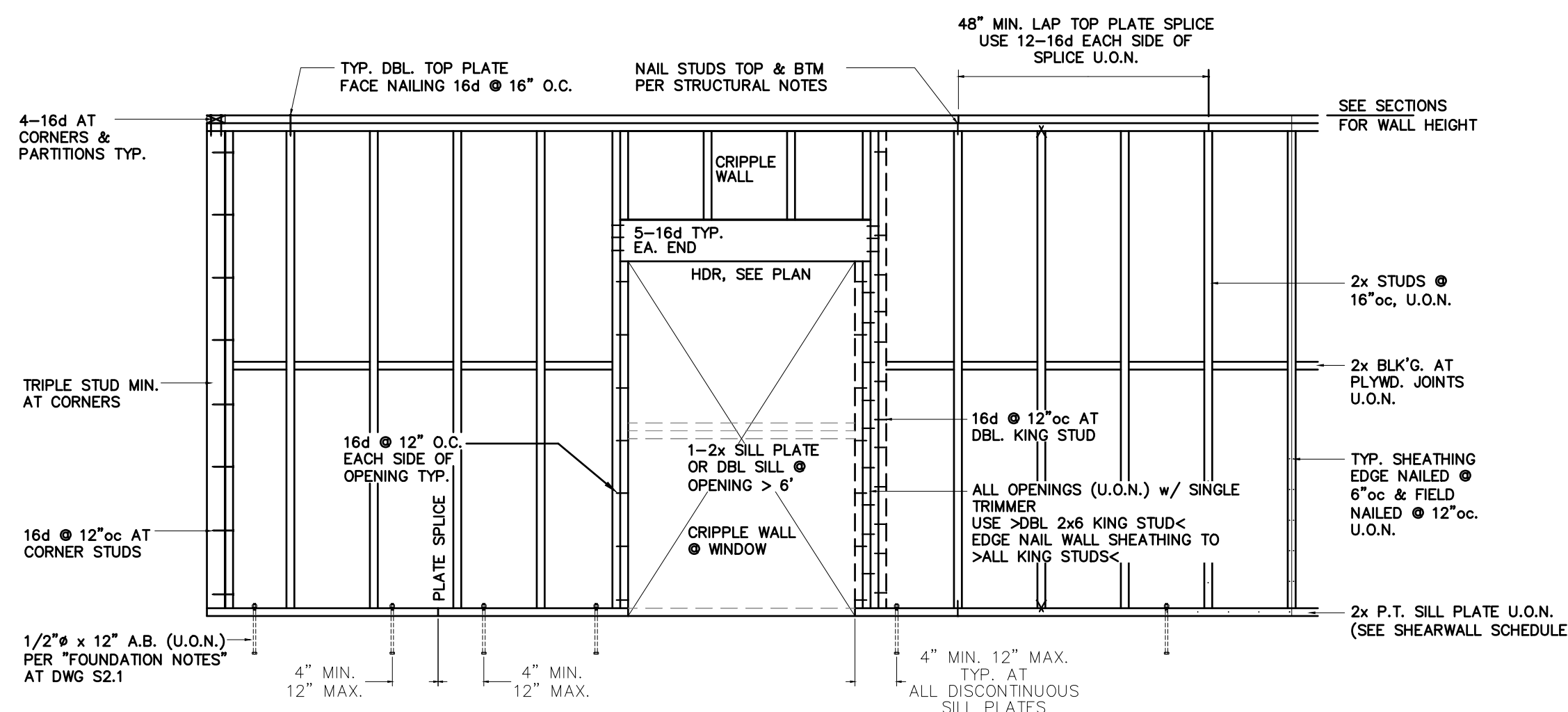
### TYP. HORIZ. FOOTING REINF.

NO SCALE



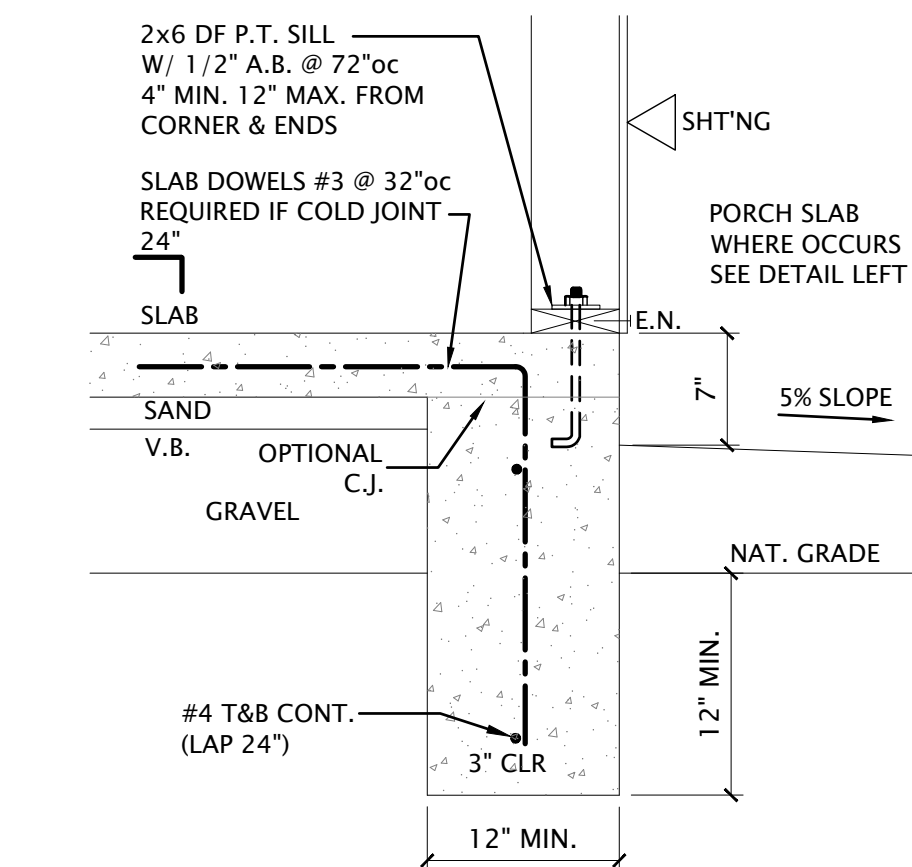
### TYP. PIPE THRU FOOTING

NO SCALE



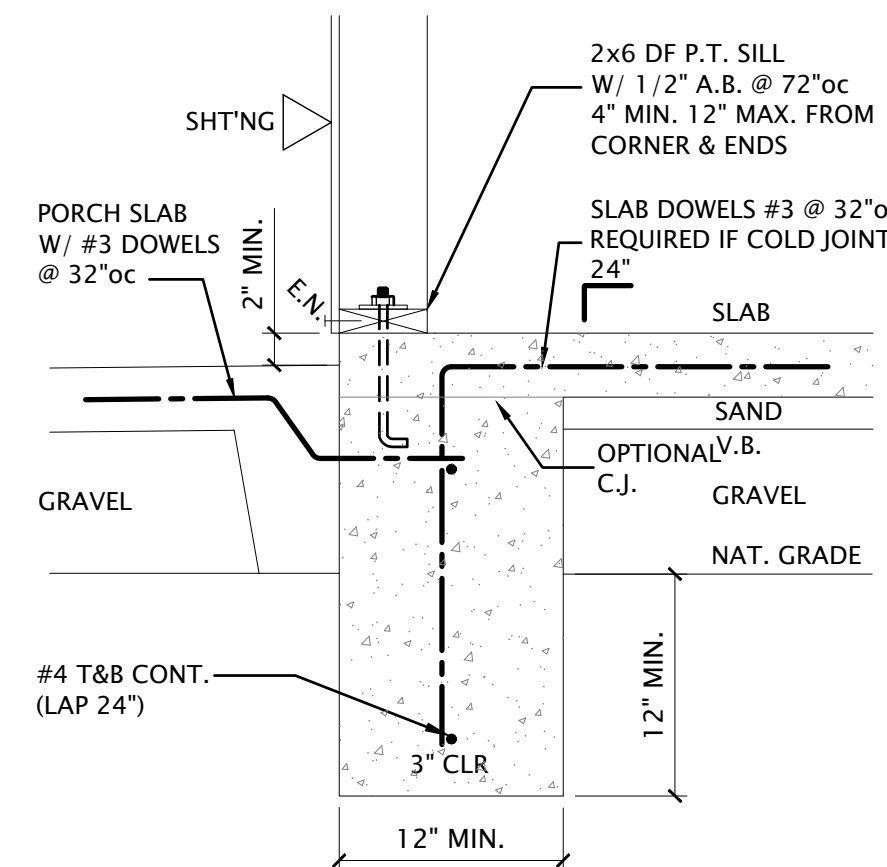
### TYP. BEARING WALL DETAILS

NO SCALE



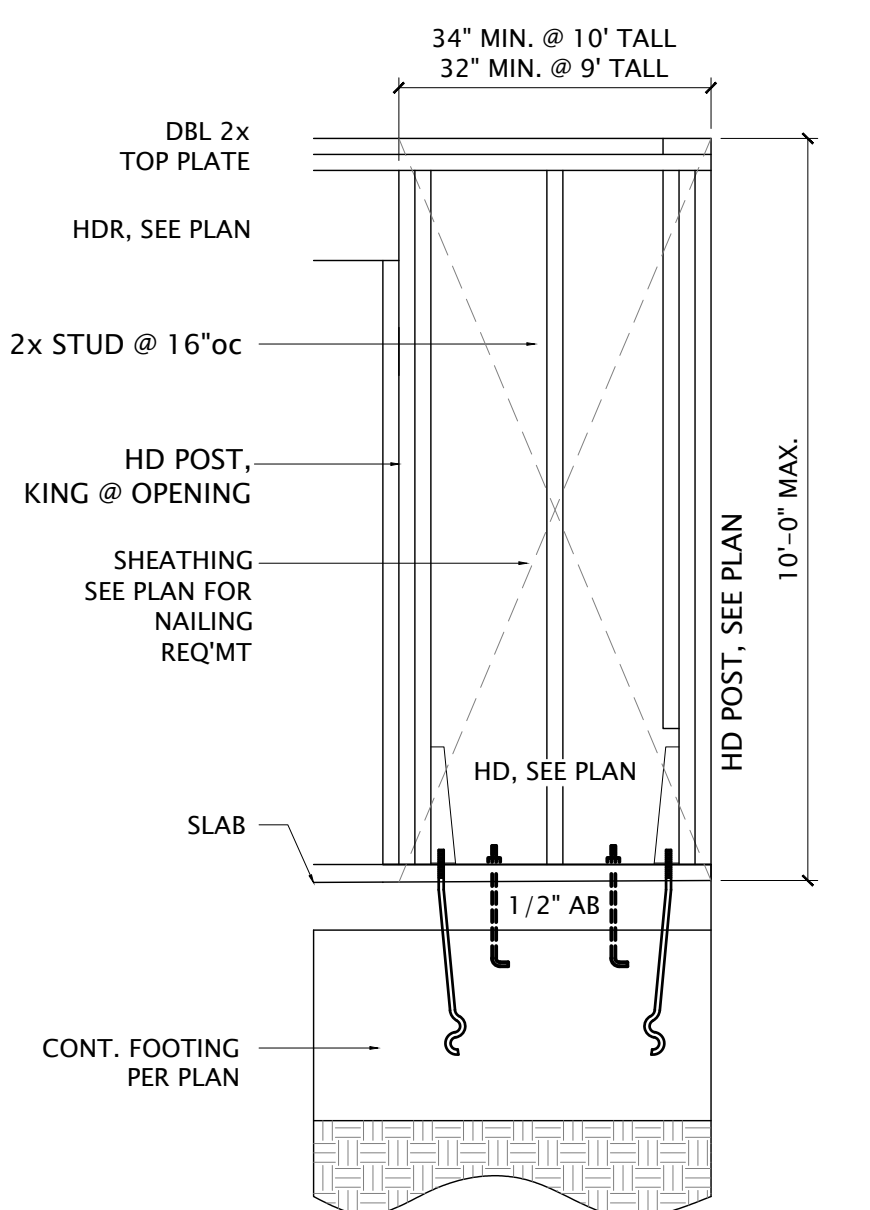
### PERIMETER FOOTING

SCALE: 1"=1'-0"



### FOOTING

SCALE: 1"=1'-0"



### ALTERNATE BRACE WALL

NO SCALE

## STRUCTURAL DETAILS

### SMALL ACCESSORY DWELLING UNIT - (461 SQ FT ONE BEDROOM)

