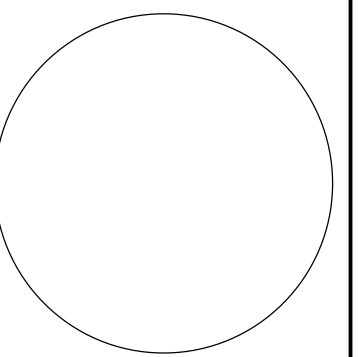


THE PLANS TO SPECIFY THE GROUND IMMEDIATELY ADJACENT TO THE NEW FOUNDATION SHALL BE SLOPED AWAY FROM BUILDING AT A SLOPE OF NOT LESS THAN 6" (5 PERCENT SLOPE) IN THE FIRST 10 FEET MEASURED PERPENDICULAR TO THE FACE OF THE WALL. IMPERVIOUS SURFACES WITHIN 10 FEET OF BUILDING SHALL BE SLOPED A MINIMUM OF 2 PERCENT AWAY FROM BUILDING. R401.3

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CONSULTANTS



ADDITION

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OWNER INFORMATION

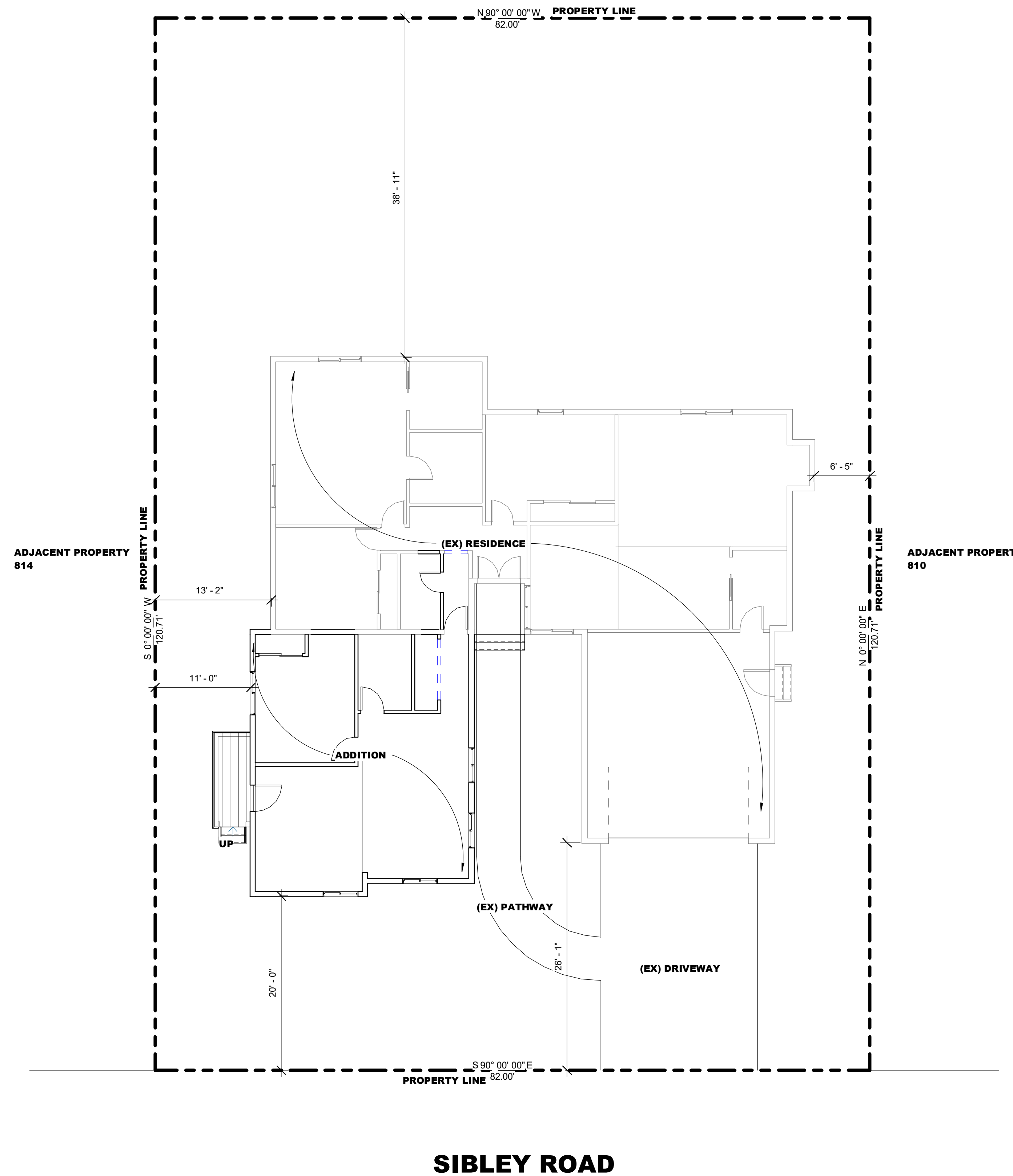
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SHEET TITLE

SITE PLAN

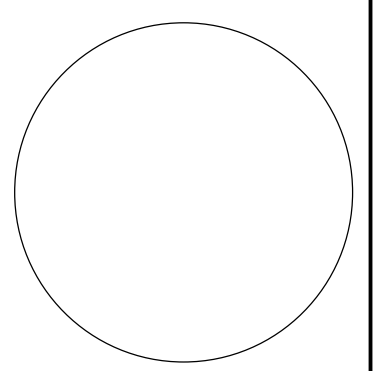
A-005



1 SITE PLAN
 SCALE: 1/8" = 1'-0"

Chp

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 APN#07104000110000**

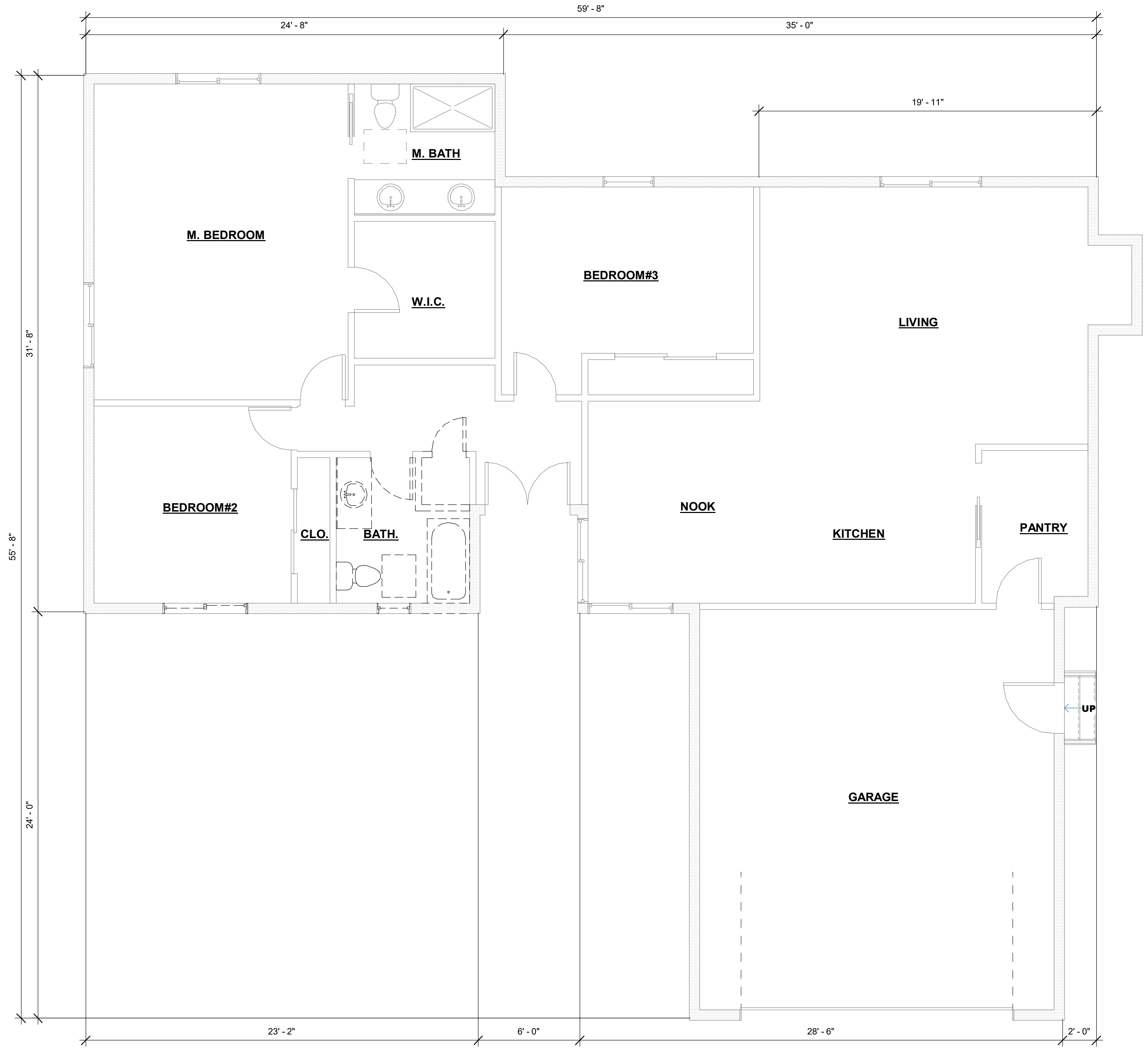
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SHEET TITLE

EXISTING FLOOR PLAN



1 EXISTING FLOOR PLAN

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

ALL LIGHTS MUST BE HIGH EFFICACY

ALL INTERIOR RECEPTACLES MUST BE ARC-FAULT CIRCUIT-INTERRUPTER

ELECTRICAL PLAN NOTES:

- 20-amp CIRCUIT TO SERVE THE REQUIRED BATHROOM OUTLETS. THIS CIRCUIT CANNOT SUPPLY ANY OTHER RECEPTACLES, LIGHTS, FANS, ETC. SEE SECTION 210-52.
- THE SMOKE DETECTOR WITH BATTERY BACKUP (WHICH ARE AUDIBLE IN ALL SLEEPING AREA) AT THE FOLLOWING LOCATIONS:
 - ALL BEDROOMS
 - CENTRALLY LOCATED IN CORRIDOR AND HALLWAYS LEADING TO BEDROOMS.
 - ABOVE TOP OF STAIRS.
 - AT LEAST ONE AT EVERY LEVEL AS PER 2022 CEC SEC. 314.3
- RECEPTACLES INSTALLED OUTDOORS PROTECTED FROM THE WEATHER OR IN OTHER DAMP LOCATION, MUST BE INSTALLED IN A WATERPROOF ENCLOSURE WHEN THE ATTACHMENT PLUG CAP IS NOT INSERTED AND THE RECEPTACLE COVER IS CLOSED AS PER 2022 CEC SEC. 406.8.
- ONE WALL RECEPTACLE OUTLET SHALL BE GFCI INSTALLED IN BATHROOM WITHIN 36" OF THE OUTSIDE EDGE OF EACH BASIN. THE RECEPTACLE OUTLET SHALL BE LOCATED ON A WALL THAT IS ADJACENT TO THE BASIN LOCATION AS PER 2022 CEC SEC. 210.52(D)
- FIXTURES, LAMP HOLDERS AND RECEPTACLES SHALL BE SECURELY SUPPORTED. A FIXTURE THAT WEIGHS MORE THAN 6 POUNDS OR EXCEEDS 14" IN ANY DIM SHALL NOT BE SUPPORTED BY THE SCREW SHELL OF A LAMP HOLDER AS PER 2022 CEC SEC. 410.30 OUTLET BOXES SHALL NOT BE USED AS THE SOLE SUPPORT FOR CEILING (PADDLER) FANS AS PER 2022 CEC SEC. 319
- PROVIDE TWO OR MORE 20-AMP SMALL APPLIANCE BRANCH CIRCUIT EVENLY PROPORTIONED IN THE KITCHEN, PANTRY, BREAKFAST ROOM, DINING ROOM OR SIMILAR AREA. SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS AS PER 2022 CEC SEC 210.52(B) AND 210.52(C)
- LIGHT FIXTURES IN TUB OR SHOWER ENCLOSURES WITH LABEL "SUITABLE FOR DAMP LOCATIONS" AS PER 2022 CEC SEC. 410.10(A)
- SEISMIC ANCHORAGE OF WATER HEATER TO INCLUDE ANCHORS OR STRAPS TO POINTS WITHIN THE UPPER AND LOWER ONE-THIRD OF ITS VERTICAL DIMENSION THE LOWER ANCHOR/STRAP LOCATED TO MAINTAIN A MINIMUM DISTANCE OF 4" ABOVE THE CONTROLS PER 2022 CEC 67.2
- ARC-FAULT CIRCUIT-INTERRUPTERS AS REQUIRED IN 2022 CEC ARTICLE 210.12
- A MINIMUM OF ONE (1) IN-LINE LUMINAIRE IS TO BE INSTALLED IN EACH BATHROOM. ALL OTHER LIGHTING IN BATHROOMS SHALL BE HE OR CONTROLLED BY OCCUPANCY SENSORS. REFERENCE 2022 CA ENERGY CODE 150.0(K)
 - ALL LIGHTING IN GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS SHALL BE LUMINAIRES AND CONTROLLED BY VACANCY SENSORS. I.E. MANUAL ON, AUTOMATIC OFF. REFERENCE 2022 CA ENERGY CODE 150.0(K)
- FOR ALL OTHER ROOMS (ANY ROOM THAT IS NOT A KITCHEN, BATHROOM, GARAGE, LAUNDRY ROOM, OR UTILITY ROOM) ALL HARDWIRED LIGHTING MUST BE HIGH EFFICACY, AND CONTROLLED BY VACANCY (MANUAL-ON OCCUPANT) SENSOR, OR CONTROLLED BY A DIMMER. (ENERGY STANDARDS)
- ALL OUTDOOR LIGHTING ATTACHED TO BUILDINGS MUST BE HIGH EFFICACY, OR CONTROLLED BY A MOTION SENSOR OR ADDITIONAL PHOTO CONTROL NOT HAVING AN OVERRIDE OR BYPASS SWITCH; OR AN ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) NOT HAVING AN OVERRIDE OR BYPASS SWITCH THAT ALLOWS THE LUMINAIRE TO ALWAYS BE ON. (ENERGY STANDARDS)
- THE EXHAUST FANS SHALL BE SWITCHED SEPARATELY FROM LUMINAIRES OR SHALL BE PROVIDED WITH TIMER SWITCH.
- RECESSED LUMINAIRES INSTALLED IN INSULATED CEILING SHALL BE UL LISTED AS IC RATED AND CERTIFIED AIR-TIGHT. (ENERGY STANDARDS)
- ALL 125-VOLT, 15- AND 20- AMPERE RECEPTACLES SPECIFIED IN CEC ARTICLE 210.52 SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES. 2022 CEC 406.12
- ALL EXHAUST DUCTING FROM FANS AND DRYER SHALL BE EQUIPPED WITH LISTED BACK DRAFT DAMPER AT OUTSIDE TERMINATION. 2022 CEC 504.3
- LIGHT FIXTURES IN CLOTHES CLOSET SHALL COMPLY (LUMINAIRES ARE HIGH EFFICACY LUMINAIRES 12" MINIMUM CLEARANCE, FLUORESCENT LUMINAIRES 6" MIN. CLEARANCE, RECESSED LUMINAIRES. 2022 CEC 410.16
- SPECIFY SMOOTH 4" MIN. DIA. METAL DUCT FOR DRYER EXHAUST EXTENDING TO OUTSIDE WITH BACK DRAFT DAMPER. THIS DUCT SHALL NOT EXCEED A TOTAL COMBINED HORIZONTAL AND VERTICAL LENGTH OF 14' INCLUDING TWO 90-DEGREE ELBOWS. CLOTHES DRYER VENT. 2022 CEC 504.3, 504.3.1.2
- 15- AND 20- AMPERE RECEPTACLES IN A WET LOCATION, 15- AND 20- AMPERE, 125- AND 250-VOLT RECEPTACLES INSTALLED IN A WET LOCATION SHALL HAVE AN ENCLOSURE THAT IS WEATHERPROOF WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED, OR OTHER THAN ONE OR TWO-FAMILY DWELLINGS, AN OUTLET BOX HOOD SHALL BE INSTALLED FOR THIS PURPOSE SHALL BE 1" TID, AND WHERE INSTALLED ON ENCLOSURE SUPPORTED FROM GRADE AS DESCRIBED IN 314.23(B) 0 AS DESCRIBED IN 314.23(F) SHALL BE IDENTIFIED AS EXTRA-DUTY. ALL 15- AND 20- AMPERE, 125- AND 250-VOLT NONLOCKING-TYPE RECEPTACLES SHALL BE LISTED WEATHER-RESISTANT. PER CEC 406.4
- CARBON MONOXIDE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:
 - OUTSIDE OF EACH SEPARATE DWELLING UNIT SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS; OR EVERY ROOM OF A DWELLING UNIT INCLUDING GARAGES. CARBON MONOXIDE ALARMS COMBINED WITH SMOKE ALARMS SHALL COMPLY WITH SECTION R315, ALL APPLICABLE STANDARDS, AND REQUIREMENTS FOR LISTING AND APPROVAL BY THE OFFICE OF THE STATE FIRE MARSHAL, FOR SMOKE ALARMS. 2022 CEC R315.
 - FOR NEW CONSTRUCTED DWELLINGS, 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 ENCLOSURES, UNACCESSIBLE 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. THE SERVICE PANEL OR SUBPANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE OVERCURRENT PROTECTIVE DEVICE SPACE(S) RESERVED FOR FUTURE BY CHARGING AS "EV CAPABLE". THE RACEWAY TERMINATION LOCATION SHALL BE PERMANENTLY AND VISIBLY MARKED AS "EV CAPABLE". COBSC 4.106.4.1

GENERAL ELECTRICAL NOTES

- SWITCH, SINGLE POLE, 20A., 120/277V.
- SWITCH, SINGLE POLE, 20A., 120/277V, WITH VACANCY SENSOR
- DIMMER SWITCH, 20A., 120/277V.
- SWITCH, 3-WAY, 20A., 120/277V.
- DUPLEX RECEPTACLE, 120V., 15" A.F.F., U.N.O. - TAMPER RESISTANT - (B) AFCI
- GROUND FAULT CIRCUIT (GFCI), DUPLEX RECEPTACLE, 220V., 15" A.F.F. U.N.O. - TAMPER RESISTANT
- GROUND FAULT CIRCUIT (GFCI), INTERRUPT RECEPTACLE, 120 V., 15" A.F.F. U.N.O. - TAMPER RESISTANT
- GROUND FAULT CIRCUIT (GFCI), INTERRUPT RECEPTACLE, 120 V., MOUNTED AT HEIGHT NOTED - TAMPER RESISTANT
- WEATHERPROOF RECEPTACLE (GFCI), 120 V., 15" A.F.F. U.N.O. - TAMPER RESISTANT
- DEDICATED RECEPTACLE, DUPLEX, 125V., RANGE/ DISHWASHER
- ELECTRIC VEHICLE CHARGING LOCATION (GFCI).
- GROUND FAULT CIRCUIT (GFCI), INTERRUPT RECEPTACLE, 120 V., AT CEILING (GARAGE DOOR)
- GARBAGE DISPOSAL
- RECESSED FIXTURE - (A) (E) (F)
- CEILING MOUNTED LIGHT FIXTURE - (B) (E) (F)
- WALL MOUNTED EXTERIOR LIGHT FIXTURE - (B) (E) (F)
- WALL MOUNTED VANITY LIGHT FIXTURE - (B) (E) (F)
- RECESSED BATHROOM FAN LIGHT COMBO - (E) (F) (G)
- THERMOSTAT LOCATION
- CARBON MONOXIDE DETECTOR - SHALL BE LISTED WITH "UL 2034" AND "UL 2075" AND COMPLY WITH CEC R315 - (H)
- INTERCONNECTED 110V CEILING MNTD. SMOKE DETECTOR /BATTERY BACKUP. ALARMS WITHIN 20' OF RANGE TO BE PHOTOELECTRIC TYPE.
- COAX TELEVISION OUTLET
- CAT-5 DATA OUTLET
- RJ11 TELEPHONE OUTLET
- ELECTRICAL SUB-PANEL
- SWITCH PATH, CONCEALED IN WALL, BELOW FLOOR OR ABOVE CEILING
- ENERGY STAR RATED CEILING FAN LIGHT - PROVIDE INDIVIDUAL SWITCHES FOR FAN AND LIGHT - (F)

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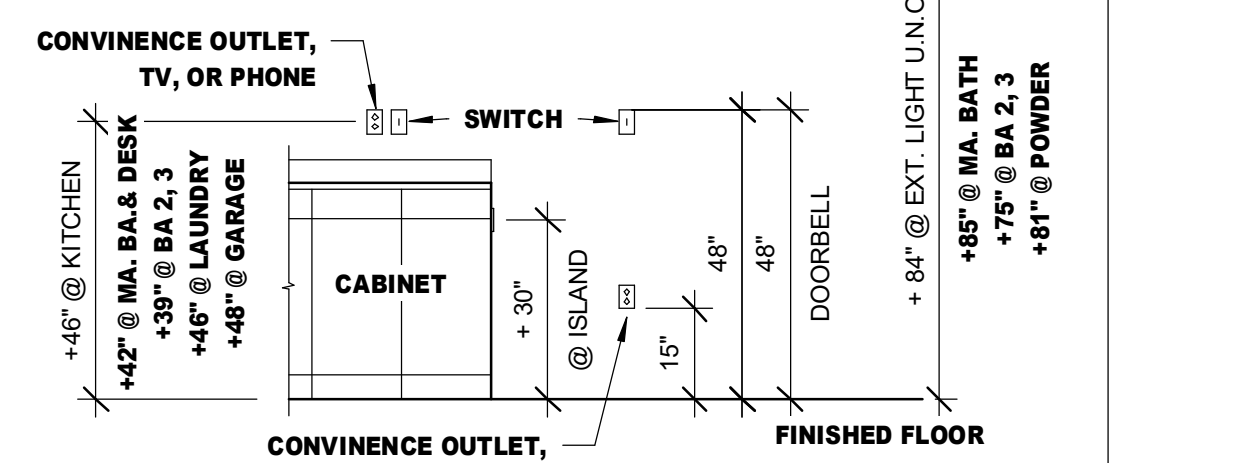
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OWNER INFORMATION



NOTE: ALL HEIGHTS TYPICAL UNLESS OTHERWISE NOTED

2 TYP. INSTALL HEIGHTS
 SCALE: 3/8" = 1'-0"

1 FLOOR ELECT. PLAN AND RCP

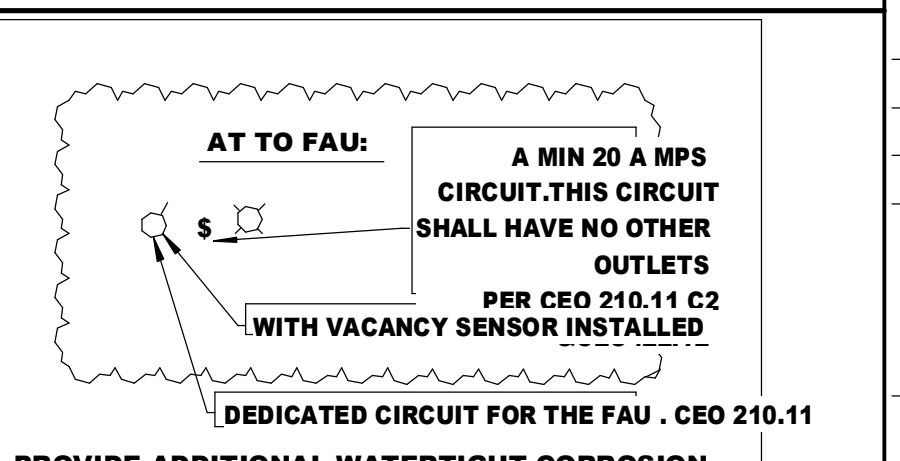
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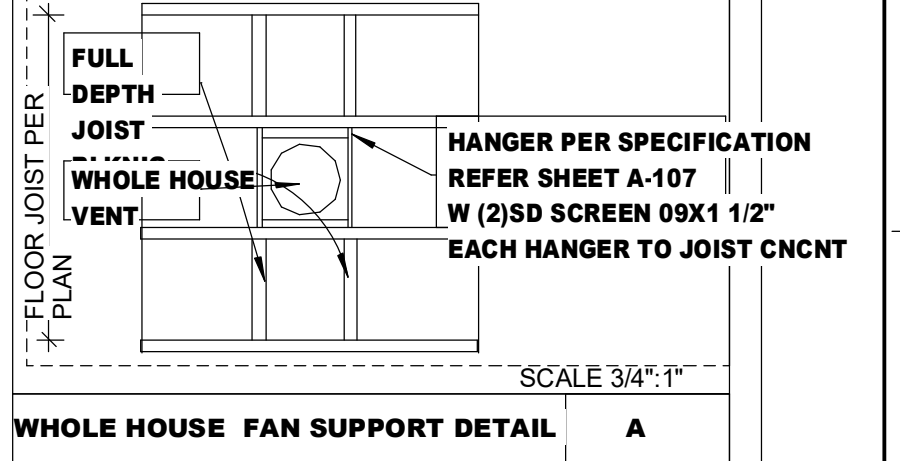
- § 110.0(L) LIGHTING CONTROLS AND COMPONENTS. ALL LIGHTING CONTROL DEVICES AND SYSTEMS, BALLASTS, AND LUMINAIRES MUST MEET THE APPLICABLE REQUIREMENTS OF § 110.0.
- § 150.0(K)(1A) LUMINAIRE EFFICACY. ALL INSTALLED LUMINAIRES MUST MEET THE REQUIREMENTS IN TABLE 150.0-A.
- § 150.0(K)(1B) BLANK ELECTRICAL BOXES. THE NUMBER OF ELECTRICAL BOXES THAT ARE MORE THAN 5 FEET ABOVE THE FINISHED FLOOR AND DO NOT CONTAIN A LUMINAIRE OR OTHER DEVICE MUST BE NO GREATER THAN THE NUMBER OF BEDROOMS. THESE ELECTRICAL BOXES MUST BE SERVED BY A DIMMER, VACANCY SENSOR CONTROL, OR FAN SPEED CONTROL.
- § 150.0(K)(1C) RECESSED DOWNLIGHT LUMINAIRES IN CEILINGS. LUMINAIRES RECESSED INTO CEILINGS MUST MEET ALL OF THE REQUIREMENTS FOR INSULATION CONTACT (IC) LABELING, MAINTENANCE, AND SOCKET AND LIGHT SOURCE AS SET FORTH IN 150.0(K)(1C).
- § 150.0(K)(1D) ELECTRONIC BALLASTS FOR FLUORESCENT LAMPS. BALLASTS FOR FLUORESCENT LAMPS RATED 13 WATTS OR GREATER MUST BE ELECTRONIC AND MUST HAVE AN OUTPUT FREQUENCY NO LESS THAN 20 KHZ.
- § 150.0(K)(1E) NIGHT LIGHTS, STEP LIGHTS, AND PATH LIGHTS. NIGHT LIGHTS AND PATH LIGHTS ARE NOT REQUIRED TO COMPLY WITH TABLE 150.0-A OR BE CONTROLLED BY VACANCY SENSORS PROVIDED THEY ARE RATED TO CONSUME NO MORE THAN 5 WATTS OF POWER AND EMIT NO MORE THAN 150 LUMENS.
- § 150.0(K)(1F) LIGHTING INTEGRAL TO EXHAUST FANS. LIGHTING INTEGRAL TO EXHAUST FANS (EXCEPT WHEN INSTALLED BY THE MANUFACTURER IN KITCHEN EXHAUST HOODS) MUST MEET THE APPLICABLE REQUIREMENTS OF § 150.0(K).
- § 150.0(K)(1G) SCREW BASED LUMINAIRES. SCREW BASED LUMINAIRES MUST COMPLY WITH REFERENCE JOINT APPENDIX JAB.'S
- § 150.0(K)(1H) LIGHT SOURCES IN ENCLOSED OR RECESSED LUMINAIRES, LAMPS AND OTHER SEPARABLE LIGHT SOURCES THAT ARE NOT COMPLIANT WITH THE JAB ELEVATED TEMPERATURE REQUIREMENTS, INCLUDING MARKING REQUIREMENTS, MUST NOT BE INSTALLED IN ENCLOSED OR RECESSED LUMINAIRES.
- § 150.0(K)(1I) LIGHT SOURCES IN DRAWERS, CABINETS, AND LINEN CLOSETS. LIGHT SOURCES INTERNAL TO DRAWERS, CABINETS OR LINEN CLOSETS ARE NOT REQUIRED TO COMPLY WITH TABLE 150.0-A OR BE CONTROLLED BY VACANCY SENSORS PROVIDED THAT THEY AUTOMATICALLY TURN THE LIGHTING OFF WHEN THE DRAWER, CABINET OR LINEN CLOSET IS CLOSED.
- § 150.0(K)(2A) INTERIOR SWITCHES AND CONTROLS. ALL FORWARD PHASE CUT DIMMERS USED WITH LED LIGHT SOURCES MUST COMPLY WITH NEMA SSS 7A.
- § 150.0(K)(2B) INTERIOR SWITCHES AND CONTROLS. EXHAUST FANS MUST BE CONTROLLED SEPARATELY FROM LIGHTING SYSTEMS.
- § 150.0(K)(2C) INTERIOR SWITCHES AND CONTROLS. LIGHTING MUST HAVE ACCESSIBLE WALL-MOUNTED CONTROLS THAT ALLOW THE LIGHTING TO BE MANUALLY TURNED ON AND OFF.
- § 150.0(K)(2D) INTERIOR SWITCHES AND CONTROLS. CONTROLS AND EQUIPMENT MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- § 150.0(K)(2E) INTERIOR SWITCHES AND CONTROLS. CONTROLS MUST NOT BYPASS A DIMMER, OCCUPANT SENSOR, OR VACANCY SENSOR FUNCTION IF THE CONTROL IS INSTALLED TO COMPLY WITH § 150.0(K).
- § 150.0(K)(2F) INTERIOR SWITCHES AND CONTROLS. LIGHTING CONTROLS MUST COMPLY WITH THE APPLICABLE REQUIREMENTS OF § 110.0.
- § 150.0(K)(2G) INTERIOR SWITCHES AND CONTROLS. AN ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) MAY BE USED TO COMPLY WITH CONTROL REQUIREMENTS IF IT PROVIDES FUNCTIONALITY OF THE SPECIFIED CONTROL ACCORDING TO § 110.0, MEETS THE INSTALLATION CERTIFICATE REQUIREMENTS OF § 130.4, MEETS THE EMC REQUIREMENTS OF § 130.0(B), AND MEETS ALL OTHER REQUIREMENTS IN § 150.0(K).
- § 150.0(K)(3) INTERIOR SWITCHES AND CONTROLS. A MULTITOUCH PROGRAMMABLE CONTROLLER MAY BE USED TO COMPLY WITH DIMMER REQUIREMENTS IN § 150.0(K) IF IT PROVIDES THE FUNCTIONALITY OF A DIMMER ACCORDING TO § 110.0, AND COMPLIES WITH ALL OTHER APPLICABLE REQUIREMENTS IN § 150.0(K).

- § 150.0(K)(4) INTERIOR SWITCHES AND CONTROLS. IN BATHROOMS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS, AT LEAST ONE LUMINAIRE IN EACH OF THESE SPACES MUST BE CONTROLLED BY AN OCCUPANT SENSOR OR A VACANCY SENSOR PROVIDING AUTOMATIC OFF FUNCTIONALITY. IF AN OCCUPANT SENSOR IS INSTALLED, IT MUST BE INITIALLY CONFIGURED TO MANUAL-ON OPERATION USING THE MANUAL CONTROL LOCATED UNDER SECTION 150.0(K)(2C).
- § 150.0(K)(5) INTERIOR SWITCHES AND CONTROLS. LUMINAIRES THAT ARE OR CONTAIN LIGHT SOURCES THAT MEET REFERENCE JOINT APPENDIX JAB REQUIREMENTS FOR DIMMING, AND THAT ARE NOT CONTROLLED BY OCCUPANCY OR VACANCY SENSORS, MUST HAVE DIMMING CONTROLS.
- § 150.0(K)(6) INTERIOR SWITCHES AND CONTROLS. UNDER CABINET LIGHTING MUST BE CONTROLLED SEPARATELY FROM CEILING-INSTALLED LIGHTING SYSTEMS.
- § 150.0(K)(7) RESIDENTIAL OUTDOOR LIGHTING. FOR SINGLE-FAMILY RESIDENTIAL BUILDINGS, OUTDOOR LIGHTING PERMANENTLY MOUNTED TO A RESIDENTIAL BUILDING, OR TO OTHER BUILDINGS ON THE SAME LOT, MUST MEET THE REQUIREMENTS IN ITEM § 150.0(K)(2A) (ON AND OFF SWITCH) AND THE REQUIREMENTS IN EITHER § 150.0(K)(3A) (PHOTOCELL) AND EITHER A MOTION SENSOR OR AUTOMATIC TIME SWITCH CONTROL OR § 150.0(K)(3A) (ASTRONOMICAL TIME CLOCK), OR AN EMCS.
- § 150.0(K)(8) RESIDENTIAL OUTDOOR LIGHTING. FOR LOW-RISE RESIDENTIAL BUILDINGS WITH FOUR OR MORE DWELLING UNITS, OUTDOOR LIGHTING FOR PRIVATE PATIOS, ENTRANCES, BALCONIES, AND PORCHES; AND RESIDENTIAL PARKING LOTS AND CARPORTS WITH LESS THAN EIGHT VEHICLES PER SITE MUST COMPLY WITH EITHER SECTION 150.0(K)(3A) OR WITH THE APPLICABLE REQUIREMENTS IN SECTIONS 110.0, 130.0, 130.2, 130.4, 140.7 AND 141.0.
- § 150.0(K)(9) RESIDENTIAL OUTDOOR LIGHTING. FOR LOW-RISE RESIDENTIAL BUILDINGS WITH FOUR OR MORE DWELLING UNITS, ANY OUTDOOR LIGHTING FOR RESIDENTIAL PARKING LOTS OR CARPORTS WITH A TOTAL OF EIGHT OR MORE VEHICLES PER SITE AND ANY OUTDOOR LIGHTING NOT REGULATED BY SECTION 150.0(K)(8) OR SECTION 150.0(K)(9) MUST COMPLY WITH THE APPLICABLE REQUIREMENTS IN SECTIONS 110.0, 130.0, 130.2, 130.4, 140.7 AND 141.0.
- § 150.0(K)(10) INTERNALLY ILLUMINATED ADDRESS SIGNS. INTERNALLY ILLUMINATED ADDRESS SIGNS MUST COMPLY WITH § 140.8, OR MUST CONSUME NO MORE THAN 5 WATTS OF POWER AS DETERMINED ACCORDING TO § 130.0(C).
- § 150.0(K)(11) RESIDENTIAL GARAGES FOR EIGHT OR MORE VEHICLES. LIGHTING FOR RESIDENTIAL PARKING GARAGES FOR EIGHT OR MORE VEHICLES MUST COMPLY WITH THE APPLICABLE REQUIREMENTS FOR NONRESIDENTIAL GARAGES IN SECTIONS 110.0, 130.0, 130.1, 130.4, 140.6, AND 141.0. § 150.0(K)(12) INTERIOR COMMON AREAS OF LOW-RISE MULTIFAMILY RESIDENTIAL BUILDINGS. IN A LOW-RISE MULTIFAMILY RESIDENTIAL BUILDING WHERE THE TOTAL INTERIOR COMMON AREA IN A SINGLE BUILDING EQUALS 20 PERCENT OR LESS OF THE FLOOR AREA, PERMANENTLY INSTALLED LIGHTING FOR THE INTERIOR COMMON AREAS IN THAT BUILDING MUST BE COMPLY WITH TABLE 150.0-A AND BE CONTROLLED BY AN OCCUPANT SENSOR.
- § 150.0(K)(13) INTERIOR COMMON AREAS OF LOW-RISE MULTIFAMILY RESIDENTIAL BUILDINGS. IN A LOW-RISE MULTIFAMILY RESIDENTIAL BUILDING WHERE THE TOTAL INTERIOR COMMON AREA IN A SINGLE BUILDING EQUALS MORE THAN 20 PERCENT OF THE FLOOR AREA, PERMANENTLY INSTALLED LIGHTING FOR THE INTERIOR COMMON AREAS IN THAT BUILDING MUST COMPLY WITH THE APPLICABLE REQUIREMENTS IN SECTIONS 110.0, 130.0, 130.1, 140.6 AND 141.0. AND ILLUMINATION INSTALLED IN CORRIDORS AND STAIRWELLS MUST BE CONTROLLED BY OCCUPANT SENSORS THAT REDUCE THE LIGHTING POWER IN EACH SPACE BY AT LEAST 50 PERCENT. THE OCCUPANT SENSORS MUST BE CAPABLE OF TURNING THE LIGHT FULLY ON AND OFF FROM ALL DESIGNATED PATHS OF INGRESS AND EGRESS.
- § 110.0(B)(3) SHADING. ANY OBSTRUCTION LOCATED ON THE ROOF OR ANY OTHER PART OF THE BUILDING THAT PROJECTS ABOVE A SOLAR ZONE MUST BE LOCATED AT LEAST TWICE THE DISTANCE, MEASURED IN THE HORIZONTAL PLANE, OF THE HEIGHT DIFFERENCE BETWEEN THE HIGHEST POINT OF THE OBSTRUCTION AND THE HORIZONTAL PROJECTION OF THE NEAREST POINT OF THE SOLAR ZONE, MEASURED IN THE VERTICAL PLANE.
- § 110.0(B)(4) SHADING. ANY OBSTRUCTION LOCATED ON THE ROOF OR ANY OTHER PART OF THE BUILDING THAT PROJECTS ABOVE A SOLAR ZONE, THE STRUCTURAL DESIGN LOADS FOR ROOF DEAD LOAD AND ROOF LIVE LOAD MUST BE CLEARLY INDICATED ON THE CONSTRUCTION DOCUMENTS.
- § 110.0(C) INTERCONNECTION PATHWAYS. THE CONSTRUCTION DOCUMENTS MUST INDICATE A LOCATION RESERVED FOR INVERTERS AND METERING EQUIPMENT AND A PATHWAY RESERVED FOR ROUTING OF CONDUIT FROM THE SOLAR ZONE TO THE POINT OF INTERCONNECTION WITH THE ELECTRICAL SERVICE AND FOR SINGLE-FAMILY RESIDENCES AND CENTRAL WATER-HEATING SYSTEMS, A PATHWAY RESERVED FOR ROUTING PLUMBING FROM THE SOLAR ZONE TO THE WATER-HEATING SYSTEM.

- § 110.0(D) DOCUMENTATION. A COPY OF THE CONSTRUCTION DOCUMENTS OR A COMPARABLE DOCUMENT INDICATING THE INFORMATION FROM § 110.0(B) THROUGH § 110.0(C) MUST BE PROVIDED TO THE OCCUPANT.
- § 110.0(E)(1) MAIN ELECTRICAL SERVICE PANEL. THE MAIN ELECTRICAL SERVICE PANEL MUST HAVE A MINIMUM BUSBAR RATING OF 200 AMPS.
- § 110.0(E)(2) MAIN ELECTRICAL SERVICE PANEL. THE MAIN ELECTRICAL SERVICE PANEL MUST HAVE A RESERVE SPACE TO ALLOW FOR THE INSTALLATION OF A DOUBLE POLE CIRCUIT BREAKER FOR A FUTURE SOLAR ELECTRIC INSTALLATION. THE RESERVE SPACE MUST BE PERMANENTLY MARKED AS "FOR FUTURE SOLAR ELECTRIC".
- SOLAR READY BUILDING:
 - § 110.0(E)(3) SINGLE-FAMILY RESIDENCES. SINGLE-FAMILY RESIDENCES LOCATED IN SUBDIVISIONS WITH TEN OR MORE SINGLE-FAMILY RESIDENCES AND WHERE THE APPLICATION FOR A TENTATIVE SUBDIVISION MAP FOR THE RESIDENCES HAS BEEN DEEMED COMPLETE AND APPROVED BY THE ENFORCEMENT AGENCY, WHICH DO NOT HAVE A PHOTOVOLTAIC SYSTEM INSTALLED, MUST COMPLY WITH THE REQUIREMENTS OF § 110.0(B) THROUGH § 110.0(E).
 - § 110.0(E)(4) LOW-RISE MULTIFAMILY BUILDINGS. LOW-RISE MULTIFAMILY BUILDINGS THAT DO NOT HAVE A PHOTOVOLTAIC SYSTEM INSTALLED MUST COMPLY WITH THE REQUIREMENTS OF § 110.0(B) THROUGH § 110.0(E).
 - § 110.0(E)(5) MINIMUM SOLAR ZONE AREA. THE SOLAR ZONE MUST HAVE A MINIMUM TOTAL AREA AS DESCRIBED BELOW. THE SOLAR ZONE MUST COMPLY WITH ACCESS, PATHWAY, SMOKE VENTILATION, AND SPACING REQUIREMENTS AS SPECIFIED IN TITLE 24, PART 5 OR OTHER PARTS OF TITLE 24 OR IN ANY REQUIREMENTS ADOPTED BY A LOCAL JURISDICTION. THE SOLAR ZONE TOTAL AREA MUST BE COMPRISED OF AREAS THAT HAVE NO DIMENSION LESS THAN 5 FEET AND ARE NO LESS THAN 80 SQUARE FEET EACH FOR BUILDINGS WITH ROOF AREAS LESS THAN OR EQUAL TO 10,000 SQUARE FEET OR NO LESS THAN 160 SQUARE FEET EACH FOR BUILDINGS WITH ROOF AREAS GREATER THAN 10,000 SQUARE FEET. FOR SINGLE-FAMILY RESIDENCES, THE SOLAR ZONE MUST BE LOCATED ON THE ROOF OR OVERHANG OF THE BUILDING AND HAVE A TOTAL AREA NO LESS THAN 250 SQUARE FEET. FOR LOW-RISE MULTIFAMILY BUILDINGS THE SOLAR ZONE MUST BE LOCATED ON THE ROOF OR OVERHANG OF THE BUILDING, OR ON THE ROOF OR OVERHANG OF ANOTHER STRUCTURE LOCATED WITHIN 250 FEET OF THE BUILDING, OR ON COVERED PARKING INSTALLED WITH THE BUILDING PROJECT, AND HAVE A TOTAL AREA NO LESS THAN 15 PERCENT OF THE TOTAL ROOF AREA OF THE BUILDING EXCLUDING ANY SKYLIGHT AREA. THE SOLAR ZONE REQUIREMENT IS APPLICABLE TO THE ENTIRE BUILDING, INCLUDING MIXED OCCUPANCY.
 - § 110.0(E)(6) ADJUTANT. ALL SECTIONS OF THE SOLAR ZONE LOCATED ON STEEP-SLOPED ROOFS MUST BE ORIENTED BETWEEN 90 DEGREES AND 300 DEGREES OF TRUE NORTH.
 - § 110.0(E)(7) SHADING. THE SOLAR ZONE MUST NOT CONTAIN ANY OBSTRUCTIONS, INCLUDING BUT NOT LIMITED TO: VENTS, CHIMNEYS, ARCHITECTURAL FEATURES, AND ROOF MOUNTED EQUIPMENT.



PROVIDE ADDITIONAL WATERTIGHT CORROSION RESISTANT ETAL PANS UNDERNEATH EACH ATTIC MOUNTED FAU NOTE THAT THE SECONDARY DRAIN LINES MUST BE LOCATED WHERE THEY CAN BE READILY OBSERVED .



PROJECT NO:

REVISION DATE:

DRAWN BY: ANDREY GINZBURG

CHK'D BY:

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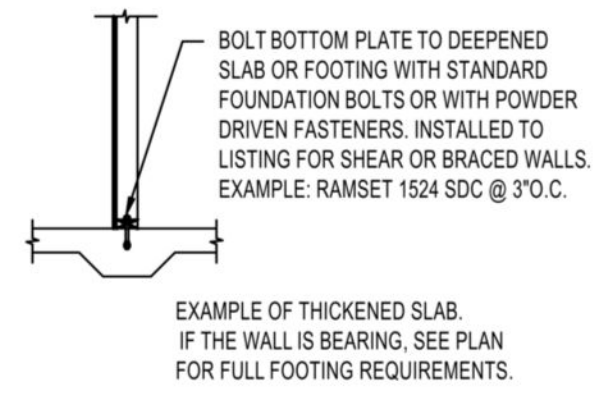
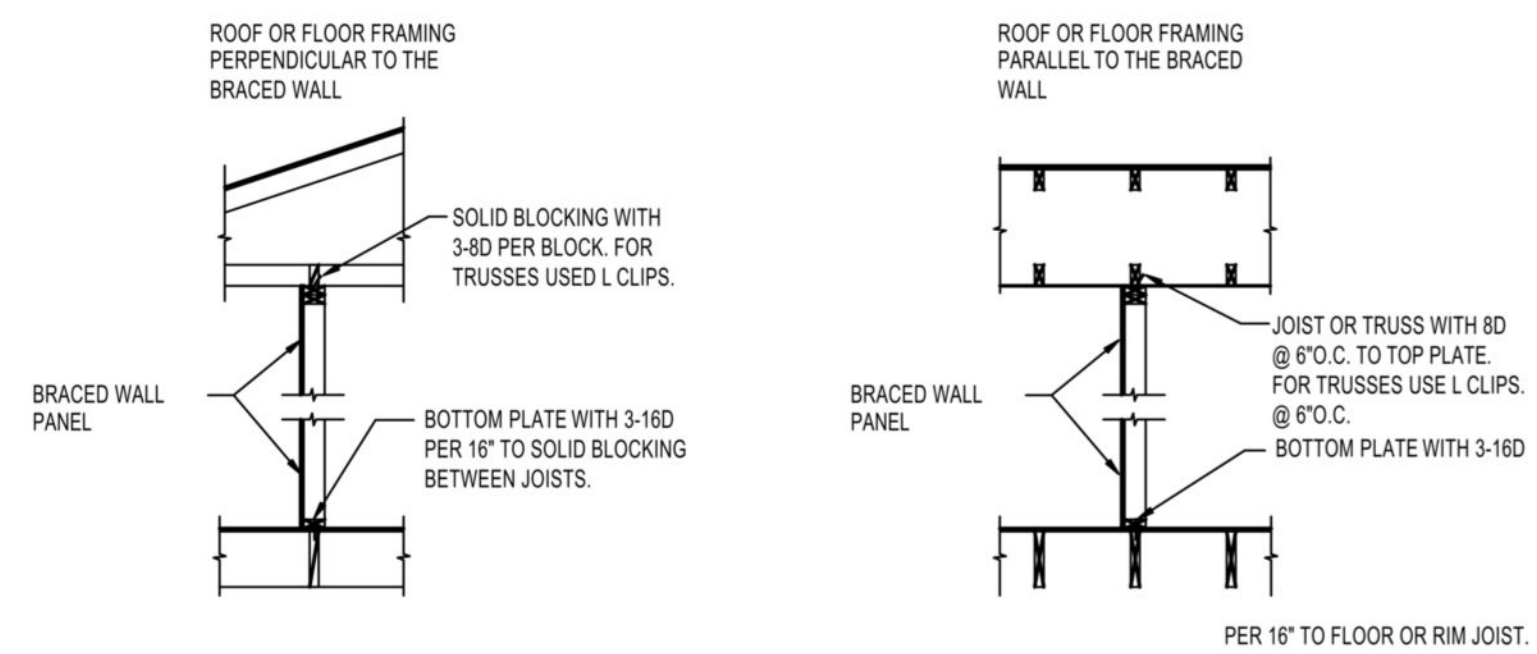
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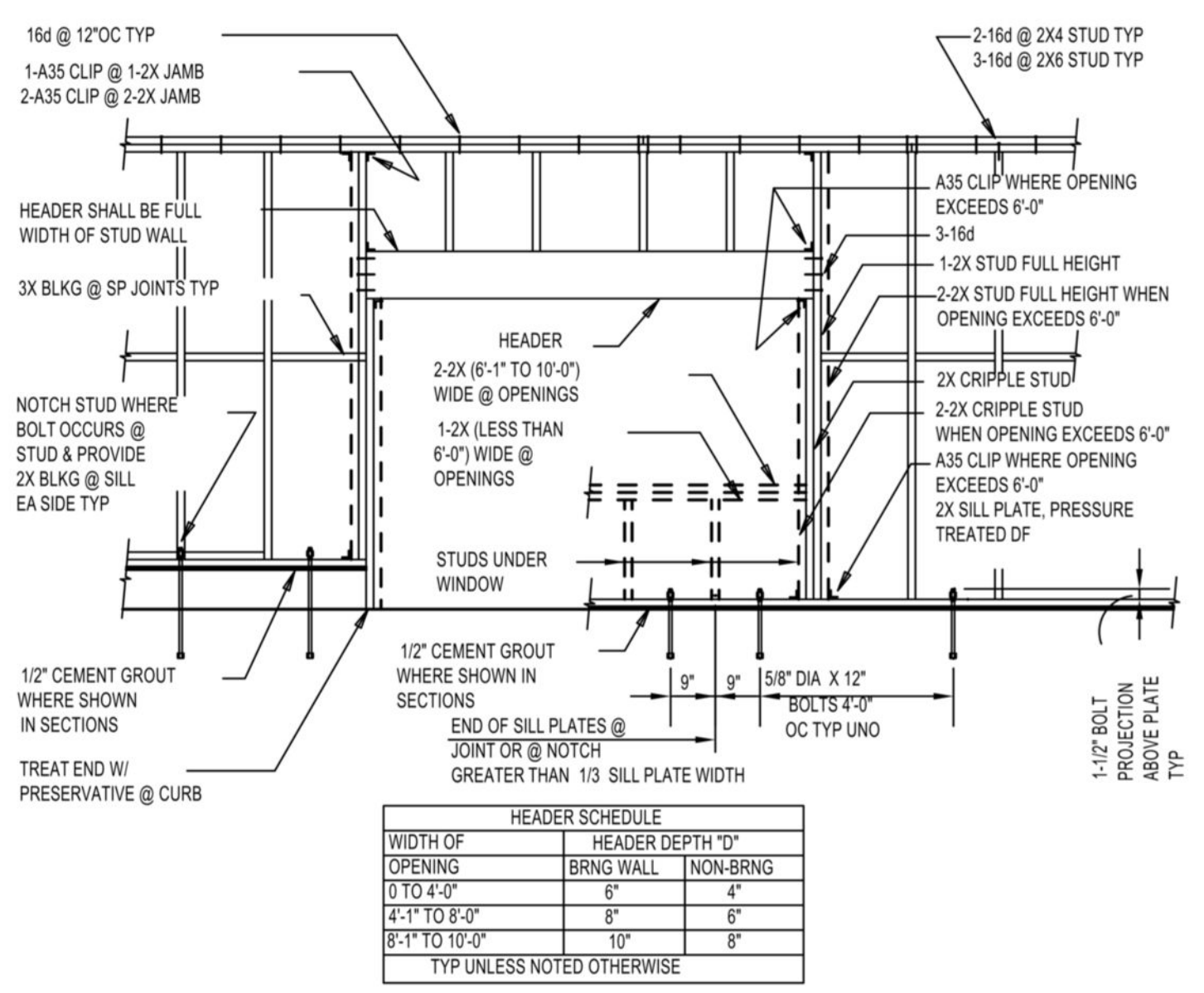
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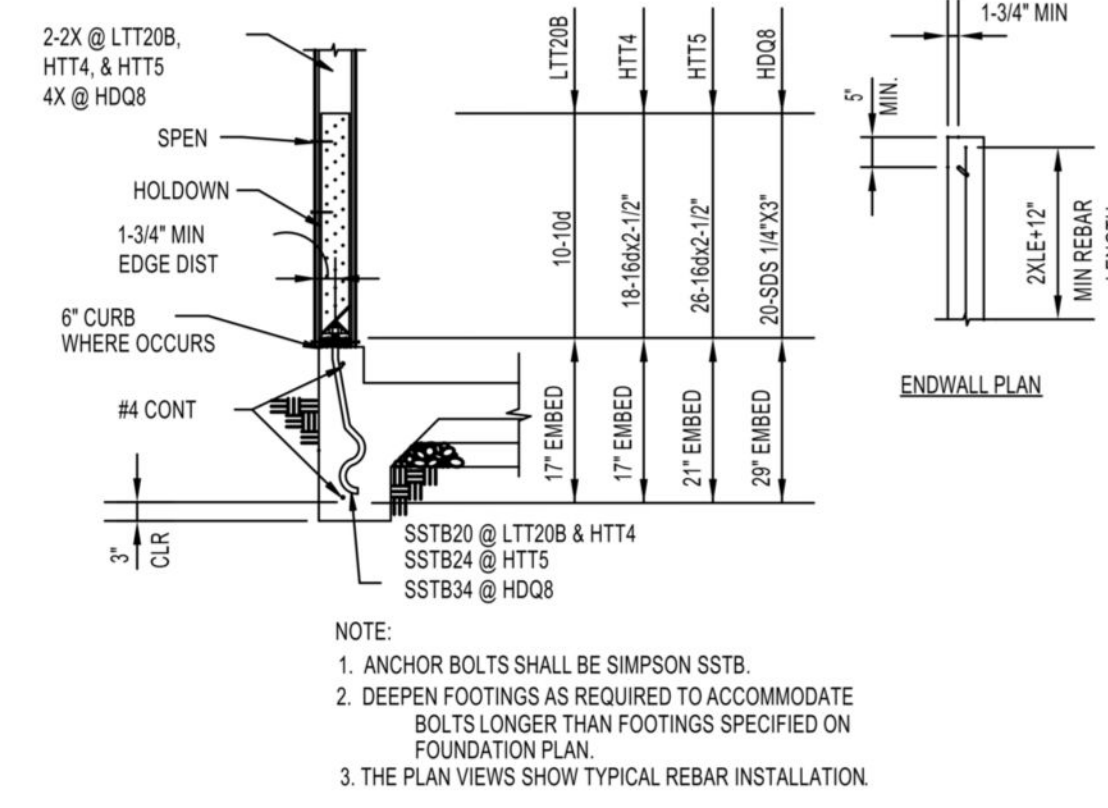
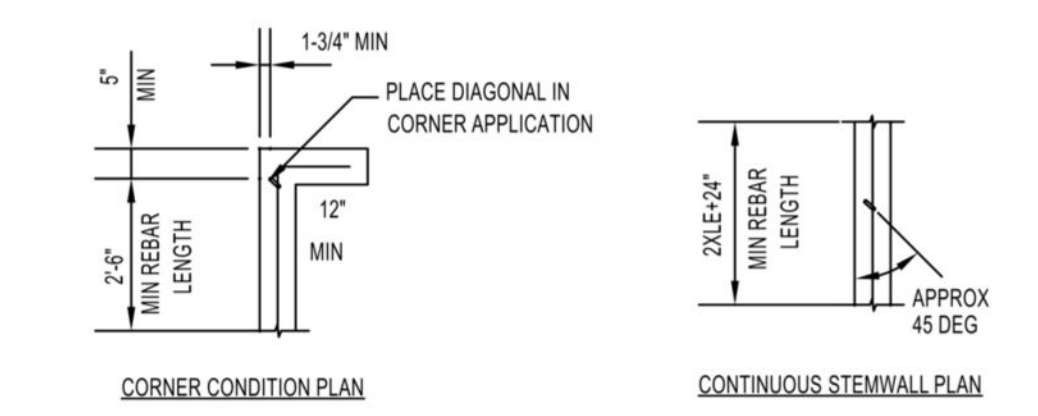
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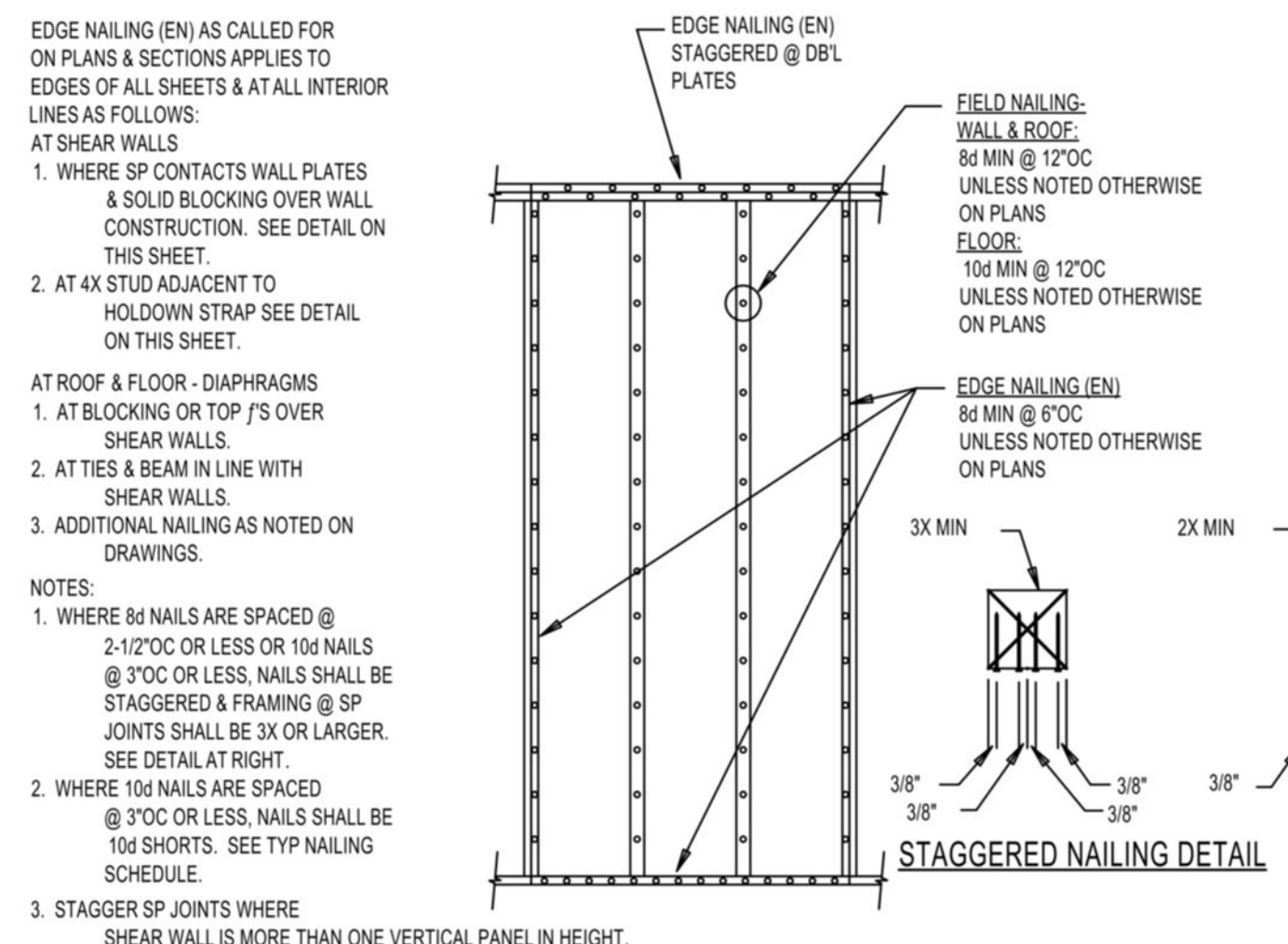
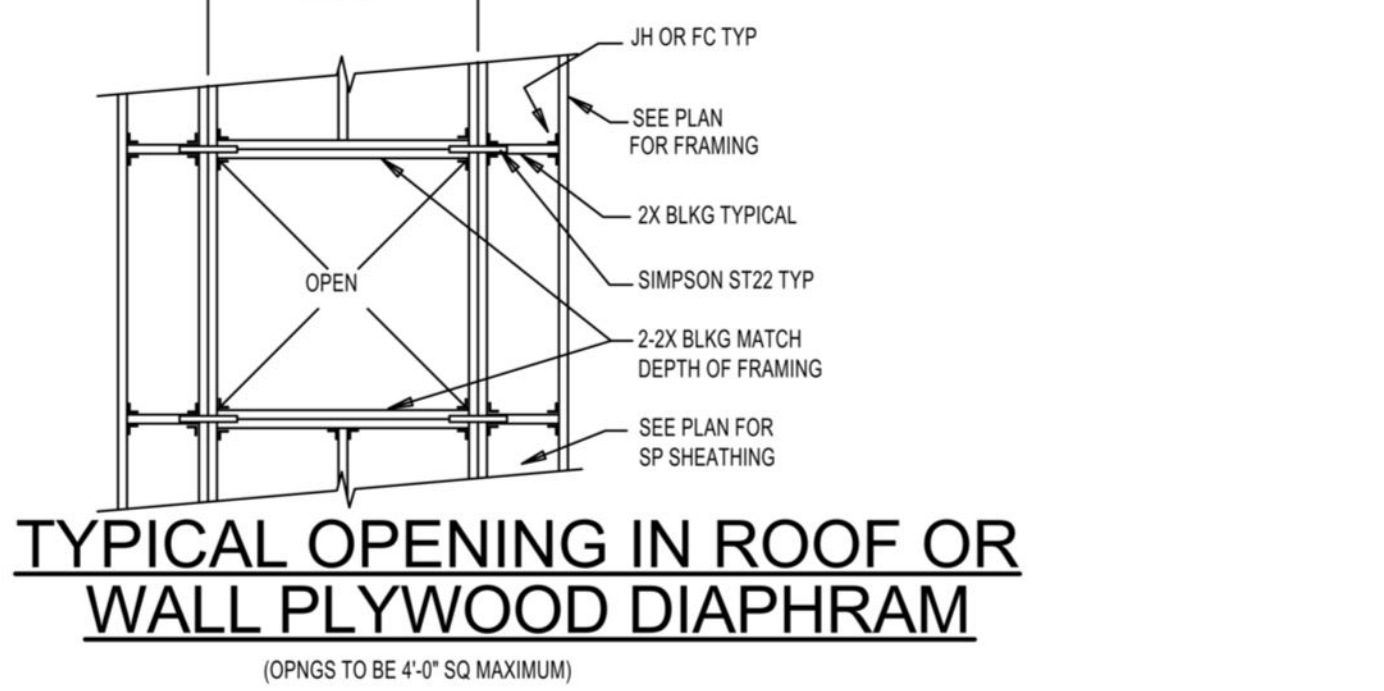
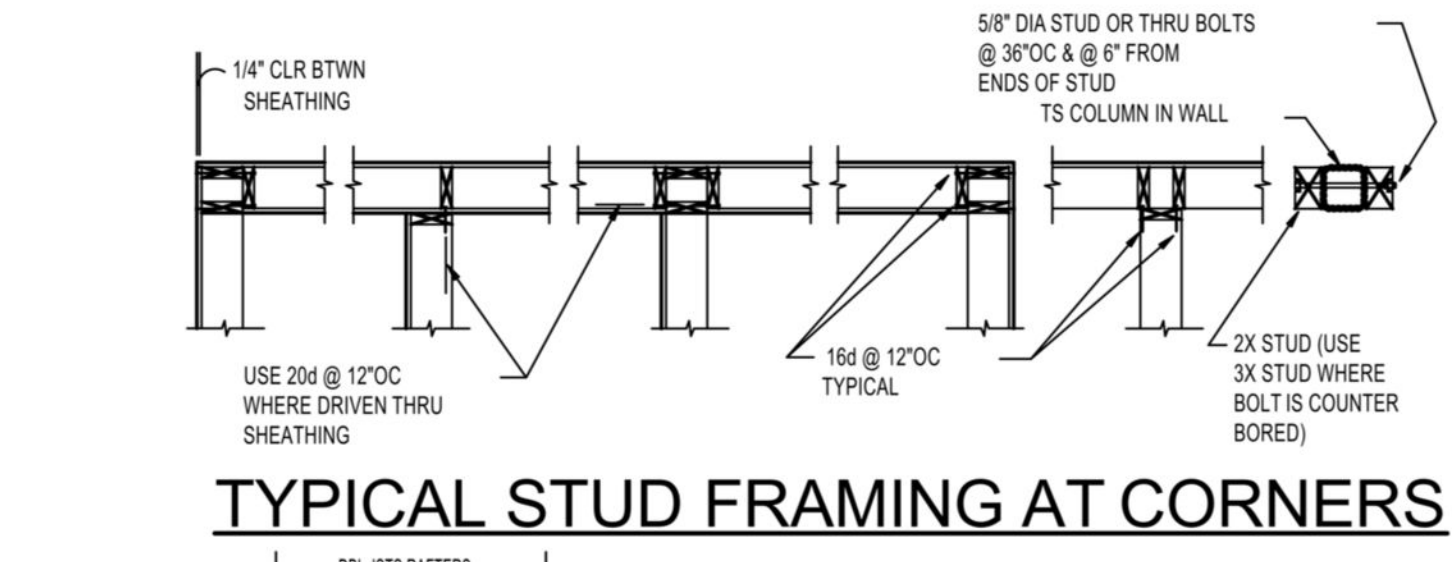
BRACED WALL PANEL ATTACHMENTS



TYPICAL STUD WALL & OPENING FRAME

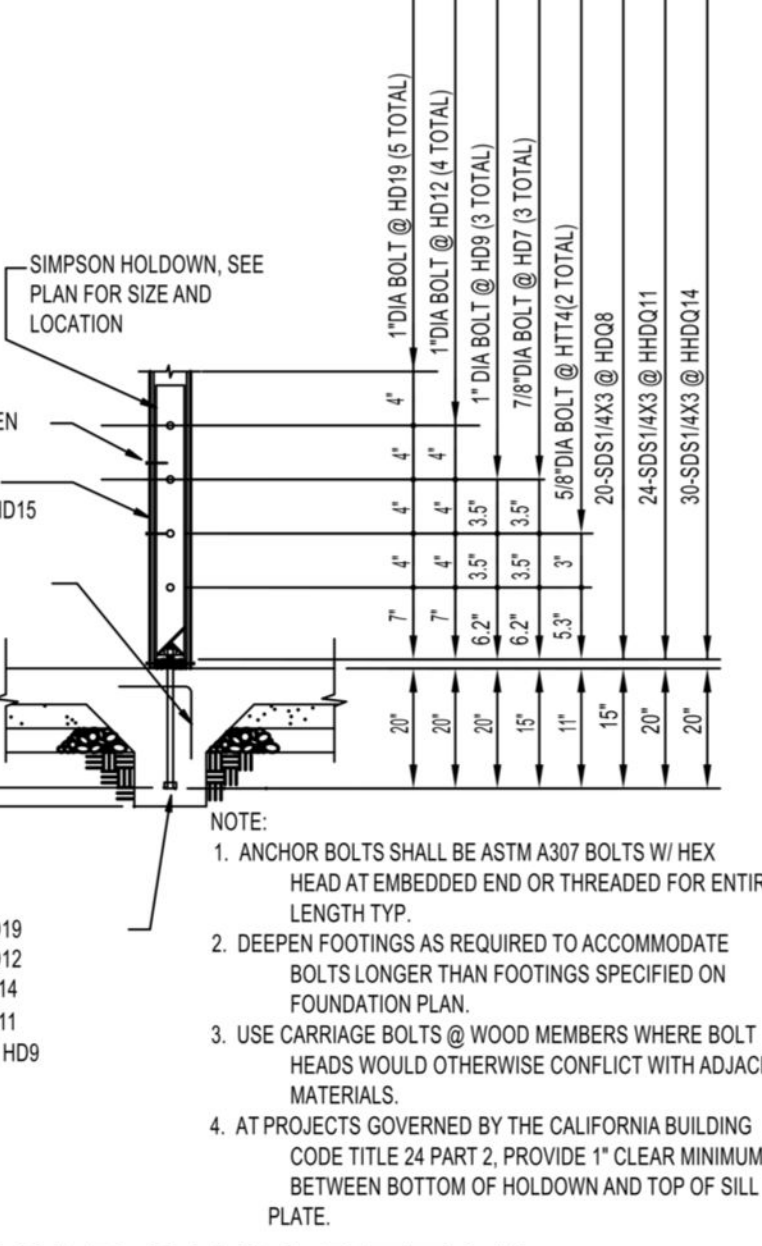


HOLDOWN DETAIL



STRUCTURAL PLYWOOD & PLYWOOD SIDING NAILING

NAILING



HOLDOWN DETAIL

RESIDENTIAL NAILING SCHEDULE			
TABLE R602.3(1) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS			
ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER ^{a,b,c}	SPACING OF FASTENERS
1	Blocking between joists or rafters to top plate, toe nail	4-8d box (2 7/8" x 0.133") or 3-8d (2 7/8" x 0.133") or 3-10d box (3" x 0.128") or 3-2" x 0.131" nails	Toe nail
2	Ceiling joists to plate, toe nail	4-8d box (2 7/8" x 0.133") or 3-8d (2 7/8" x 0.133") or 3-10d box (3" x 0.128") or 3-2" x 0.131" nails	Toe nail
3	Ceiling joists not attached to parallel rafter, tops over partitions, face (see Sections R602.3.2, R602.3.2 and Table R602.5.1(b))	4-10d box (3" x 0.128") or 3-10d common (2 7/8" x 0.148") or 4-9" x 0.131" nails	Face nail
4	Ceiling joist attached to parallel rafter (see joist) (see Sections R602.3.1 and R602.3.2 and Table R602.5.1(b))	Table R602.5.1(b)	Face nail
5	Collar tie to rafter, face nail or 1 1/2" x 20 gauge ridge strap to rafter	4-10d box (3" x 0.128") or 3-10d common (2 7/8" x 0.148") or 4-9" x 0.131" nails	Face nail each rafter
6	Rafter or roof truss to plate	3-16d box nails (3 1/2" x 0.135") or 3-16d common nails (3" x 0.148") or 4-10d box (3" x 0.128") or 4-2" x 0.131" nails	2 toe nails on one side and 1 toe nail on opposite side of each rafter or truss
7	Rafter to ridge, valley or hip rafters or roof rafter to minimum 2" ridge beam	3-16d box (3 1/2" x 0.135") or 3-16d common (3" x 0.148") or 4-10d box (3" x 0.128") or 4-2" x 0.131" nails	Toe nail
8	Stud to stud (not at braced wall panel)	10d common (3 1/2" x 0.162") or 10d box (3" x 0.128") or 3" x 0.131" nails	24" o.c. face nail
9	Stud to stud and shifting studs at intersecting wall corners (at braced wall panels)	10d common (3 1/2" x 0.162") or 10d box (3" x 0.128") or 3" x 0.131" nails	18" o.c. face nail
10	Build-up header (2" to 2" header with 1/2" spacer)	10d common (3 1/2" x 0.162") or 10d box (3" x 0.128") or 3" x 0.131" nails	18" o.c. face nail
11	Continuous header to stud	3-8d box (2 7/8" x 0.133") or 4-8d common (2 7/8" x 0.148") or 4-10d box (3" x 0.128") or 4-2" x 0.131" nails	Toe nail
12	Top plate to top plate	10d common (3 1/2" x 0.162") or 10d box (3" x 0.128") or 3" x 0.131" nails	18" o.c. face nail
13	Double top plate splice	3-16d common (3 1/2" x 0.135") or 3-16d box (3 1/2" x 0.135") or 3-16d common (3" x 0.148") or 3-16d box (3" x 0.128") or 3-2" x 0.131" nails	Face nail on each side of end joint (minimum 24" lap splice length each side of end joint)
14	Bottom plate to joist, rim joist, band joist or blocking (not at braced wall panels)	10d common (3 1/2" x 0.162") or 10d box (3" x 0.128") or 3" x 0.131" nails	12" o.c. face nail

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER ^{a,b,c}	SPACING OF FASTENERS
15	Bottom plate to joist, rim joist, band joist or blocking (not at braced wall panels)	3-16d box (3 1/2" x 0.135") or 3-16d common (3" x 0.148") or 4-2" x 0.131" nails	3 each 18" o.c. face nail 2 each 18" o.c. face nail 4 each 18" o.c. face nail
16	Top or bottom plate to stud	4-8d box (2 7/8" x 0.133") or 3-8d (2 7/8" x 0.133") or 4-8d common (2 7/8" x 0.148") or 4-10d box (3" x 0.128") or 4-2" x 0.131" nails	Toe nail
17	Top plates, lath at corners and intersections	3-16d common (3 1/2" x 0.135") or 3-16d box (3 1/2" x 0.135") or 3-16d common (3" x 0.148") or 3-16d box (3" x 0.128") or 3-2" x 0.131" nails	End nail
18	1" brace to each stud and plate	3-8d box (2 7/8" x 0.133") or 3-8d common (2 7/8" x 0.148") or 3-10d box (3" x 0.128") or 3-2" x 0.131" nails	Face nail
19	1" x 6" sheathing to each bearing	3-8d box (2 7/8" x 0.133") or 3-8d common (2 7/8" x 0.148") or 3-10d box (3" x 0.128") or 3-2" x 0.131" nails	Face nail
20	1" x 8" wider sheathing to each bearing	3-8d box (2 7/8" x 0.133") or 3-8d common (2 7/8" x 0.148") or 3-10d box (3" x 0.128") or 3-2" x 0.131" nails	Face nail
21	Joist to sill, top plate or girder	4-8d box (2 7/8" x 0.133") or 3-8d common (2 7/8" x 0.148") or 3-10d box (3" x 0.128") or 3-2" x 0.131" nails	Toe nail
22	Rim joist, band joist or blocking to sill or top plate (not applicable here)	8d common (2 7/8" x 0.148") or 10d box (3" x 0.128") or 3" x 0.131" nails	4" o.c. toe nail 8" o.c. toe nail
23	1" x 6" subfloor or less to each joist	4-8d box (2 7/8" x 0.133") or 3-8d common (2 7/8" x 0.148") or 3-10d box (3" x 0.128") or 3-2" x 0.131" nails	Face nail
24	2" subfloor to joist or girder	3-16d box (3 1/2" x 0.135") or 3-16d common (3" x 0.148") or 3-16d box (3" x 0.128") or 3-2" x 0.131" nails	Blind or face nail
25	2" planks (joist & beam - floor & roof)	3-16d common (3 1/2" x 0.135") or 3-16d box (3 1/2" x 0.135") or 3-16d common (3" x 0.148") or 3-16d box (3" x 0.128") or 3-2" x 0.131" nails	At each bearing
26	Band or rim joist to joist	4-10d box (3" x 0.128") or 4-2" x 0.131" nails, or 4-2" x 14 ga. staples, 7/16" crown	End nail
27	Build-up girders and beams, 2-inch lumber layers	10d common (3 1/2" x 0.162") or 10d box (3" x 0.128") or 3" x 0.131" nails	24" o.c. face nail at top and bottom staggered on opposite sides
28	Ledge strip supporting joists or rafters	4-10d box (3" x 0.128") or 4-2" x 0.131" nails, or 4-2" x 14 ga. staples, 7/16" crown	At each joist or rafter, face nail
29	Shifting to joist	3-16d (3" x 0.148") or 3-16d common (3" x 0.148") or 3-16d box (3" x 0.128") or 3-2" x 0.131" nails	Each end, toe nail

G:\Forms and Handouts\BUILDING\Residential Nailing Schedule.docx Page 2 of 3

REQUIREMENTS FOR WOOD STRUCTURAL PANEL SHEATHING USED TO RESIST WIND PRESSURES ^{a,b,c}									
MINIMUM WIND SPEED (mph)	MINIMUM WOOD STRUCTURAL PANEL RATING	MINIMUM WALL STUD SPACING (inches)	MINIMUM PANEL NAIL SPACING (inches)	MINIMUM PANEL THICKNESS (inches)	MINIMUM PANEL TYPE	MINIMUM PANEL GRADE	MINIMUM PANEL NAIL TYPE	MINIMUM PANEL NAIL SPACING (inches)	
6d Common (2.07" x 0.113")	1.5	24/6	1/4	16	6	12	140	115	110
8d Common (2.5" x 0.131")	1.75	24/6	3/8	16	6	12	170	140	135

TABLE R602.3(1) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

RESIDENTIAL NAILING SCHEDULE			
TABLE R602.3(1) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS			
ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER ^{a,b,c}	SPACING OF FASTENERS
30	Roof structural panels, exterior, roof and interior wall sheathing to framing and partitioned wall sheathing to framing (see Table R602.3(1) for wood structural panel exterior wall sheathing to wall framing)	8d common (2 7/8" x 0.133") nail (outdoor wall) or 8d common (2 7/8" x 0.133") nail (indoor wall)	6
31	Roof structural panels, exterior, roof and interior wall sheathing to framing and partitioned wall sheathing to framing (see Table R602.3(1) for wood structural panel exterior wall sheathing to wall framing)	8d common (2 7/8" x 0.133") nail (outdoor wall) or 8d common (2 7/8" x 0.133") nail (indoor wall)	6
32	Roof structural panels, exterior, roof and interior wall sheathing to framing and partitioned wall sheathing to framing (see Table R602.3(1) for wood structural panel exterior wall sheathing to wall framing)	8d common (2 7/8" x 0.133") nail (outdoor wall) or 8d common (2 7/8" x 0.133") nail (indoor wall)	6

TABLE R602.3(1) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

For S1: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

a. Nails are smooth-shank, box or deformed shank except where otherwise stated. Nails used for framing and sheathing connections shall have minimum average tensile strength as shown. 8d for shank diameter of 0.162 inch (20d common nail), 9d for shank diameter larger than 0.142 inch but not larger than 0.177 inch, and 10d for shank diameter of 0.142 inch or less.

b. Staples are 10 gauge wire and have a minimum 7/8 inch on crown width.

c. Spacing of fasteners on roof sheathing panel edges applies to panel edges supported by framing members and required blocking. Blocking of roof and floor sheathing panel edges perpendicular to the framing members need not be provided except as required by other provisions of the code. Floor partitioning shall be supported by framing members and required blocking.

d. Where a rafter is framed in an adjacent parallel ceiling joist in accordance with this schedule, provide toe nails on one side of the rafter and toe nails from the ceiling joist to top plate in accordance with this schedule. The toe nail on the opposite side of the rafter shall not be required.

e. Simpson sheathing shall conform to ASTM C 1396 and shall be installed in accordance with GA 253. Fiberboard sheathing shall conform to ASTM C 208.

f. Spacing of fasteners on floor sheathing panel edges applies to panel edges supported by framing members and required blocking and to four perimeter only. Spacing of fasteners on roof sheathing panel edges applies to panel edges supported by framing members and required blocking. Blocking of roof and floor sheathing panel edges perpendicular to the framing members need not be provided except as required by other provisions of the code. Floor partitioning shall be supported by framing members and required blocking.

g. Where a rafter is framed in an adjacent parallel ceiling joist in accordance with this schedule, provide toe nails on one side of the rafter and toe nails from the ceiling joist to top plate in accordance with this schedule. The toe nail on the opposite side of the rafter shall not be required.

h. R602-C1 is a Roof Sheathing Rip Stud nail meeting the specifications in ASTM F 1987.

TABLE R602.3(4) ALLOWABLE SPANS FOR PARTICLEBOARD WALL SHEATHING^a

THICKNESS (inches)	GRADE	STUD SPACING (inches)	
		When siding is nailed to studs	When siding is nailed to sheathing
1/2	M-1 Exterior glue	16	—
1/2	M-2 Exterior glue	16	16

TABLE R602.3(5) SIZE, HEIGHT AND SPACING OF WOOD STUDS^a

STUD SIZE (inches)	BEARING WALLS				NONBEARING WALLS	
	Laterally unsupported when supporting a roof load ^b (feet)	Maximum spacing when supporting one floor joist or ceiling assembly or a masonry wall assembly, only (feet)	Maximum spacing when supporting two floor joists or ceiling assembly or a masonry wall assembly (inches)	Maximum spacing when supporting one floor joist or ceiling assembly or a masonry wall assembly (inches)	Laterally unsupported stud height ^c (feet)	Maximum spacing (inches)
2 x 3 ^d	—	—	—	—	10	16
2 x 4	10	24 ^e	16 ^f	—	24	14
3 x 4	10	24	24	16	24	14
2 x 5	10	24	24	—	24	16
2 x 6	10	24	24	16	24	20

For S1: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

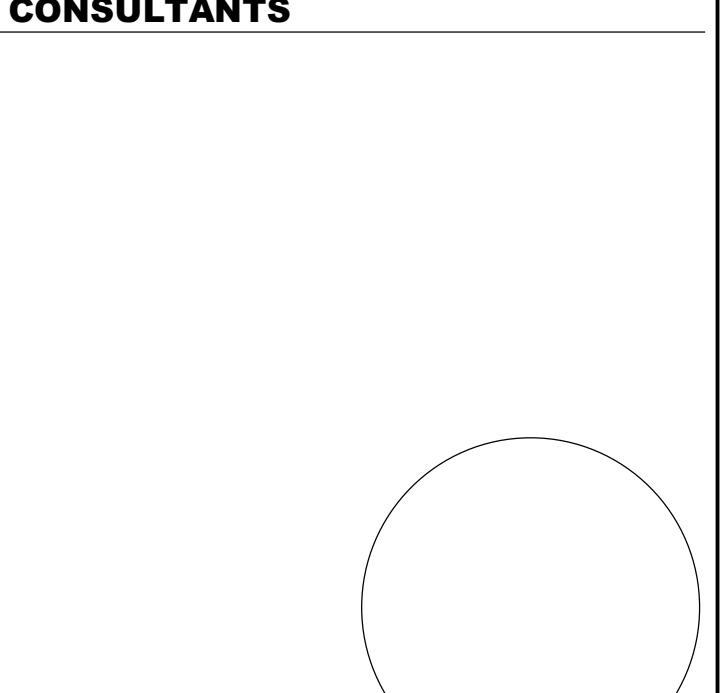
a. Lateral heights are dimensions between points of lateral support placed perpendicular to the plane of the wall. Bearing walls shall be braced on one end and on the other end or bracing shall be installed not greater than 4 feet apart measured vertically from either end of the stud. Increases in unsupported height are permitted where in compliance with Exception 2 of Section R602.3.1 or designed in accordance with accepted engineering practice.

b. Shall not be used in exterior walls.

c. A hollow end stud assembly supported by 2 x 4 studs is limited to a roof span of 32 feet. When the roof span exceeds 32 feet, the wall studs shall be increased to 2 x 6 or the studs shall be designed in accordance with accepted engineering practice.

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OWNER INFORMATION

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STRUCTURE NOTES

SN2