THE ITEMS LISTED HERE ARE THE MINIMUM REGULATIONS APPLICABLE TO

RESIDENTIAL PROJECTS THESE REQUIREMENTS SHALL NOT SUPERSEDE MORE RESTRICTIVE SPECIFICATIONS ON THE APPROVED PLANS OR AS REQUIRED BY APPLICABLE CODES AND/OR OTHER APPROVED PRESSURE-PRESERVATIVE TREATED (PT) OR NATURALLY DURABLE WOOD SHALL BE USED IN THE FOLLOWING LOCATIONS: (CRC R317.1 & R317.1.2) JOISTS LESS THAN 18-INCHES OR GIRDERS LESS THAN 12-INCHES FROM EXPOSED GROUND IN AREA LOCATED WITHIN THE BUILDING FOUNDATION.

FOUNDATION WALLS AND ARE LESS THAN 8-INCHES FROM EXPOSED SILLS AND SLEEPERS ON A CONCRETE OR MASONRY SLAB THAT IS IN DIRECT CONTACT WITH THE GROUND UNLESS SEPARATED FROM SUCH SLAB BY AN IMPERVIOUS MOISTURE BARRIER THE ENDS OF GIRDERS ENTERING EXTERIOR MASONRY OR CONCRETE WALLS

ALL FRAMING MEMBERS THAT REST ON CONCRETE OR MASONRY EXTERIOR

HAVING CLEARANCES OF LESS THAN 1/2-INCH ON TOPS, SIDES AND SIDING, SHEATHING AND WALL FRAMING ON THE EXTERIOR OF A BUILDING HAVING A CLEARANCE OF LESS THAN 6-INCHES FROM THE GROUND OR LESS THAN 2-INCHES FROM CONCRETE STEPS OR SLABS, OR SIMILAR HORIZONTAL SURFACES EXPOSED TO THE WEATHER. ALL WOOD IN CONTACT WITH THE GROUND, EMBEDDED IN CONCRETE IN

DIRECT CONTACT WITH THE GROUND OR EMBEDDED IN CONCRETE EXPOSED

TO THE WEATHER. STRUCTURAL WOOD MEMBERS EXPOSED TO THE WEATHER WITHOUT ADEQUATE PROTECTION FROM A ROOF, EAVE, OVERHANG OR OTHER COVERING THAT WOULD PREVENT MOISTURE OR WATER ACCUMULATION ON

THE SURFACE OR JOINTS BETWEEN MEMBER. ALL WOOD POSTS TO BE OF APPROVED NATURAL DECAY RESISTANT OR PRESSURE-PRESERVATIVE TREATED, UNLESS SUPPORTED ON A METAL PEDESTAL 1-INCH ABOVE A CONCRETE FLOOR OR SURFACE (CRC R317.1 (9)) ALL EXTERIOR WALL ASSEMBLIES SHALL INCLUDE A WEEP SCREED AND WATER

RESISTIVE BARRIER AS FOLLOWS: (CRC R703.1.1, R703.7.2.1 & R703.7.3) WEEP SCREED: a. A MINIMUM 0.019 INCH (NO. 26 GALVANIZED SHEET GAGE) CORROSION RESISTANT OR PLASTIC WITH A MINIMUM 3-1/2 INCH VERTICAL ATTACHMENT FLANGE:

b. SHALL BE PROVIDED AT OR BELOW THE FOUNDATION PLATE LINE ON EXTERIOR STUD WALLS IN ACCORDANCE WITH ASTM C926. INSTALLED 4-INCHES ABOVE THE EARTH OR 2-INCHES ABOVE PAVED AREAS;

TO THE EXTERIOR OF THE BUILDING. e. THE WEATHER RESISTANT BARRIER SHALL LAP THE ATTACHMENT THE EXTERIOR LATH SHALL COVER AND TERMINATE ON THE ATTACHMENT FLANGE OF THE WEEP SCREED WATER-RESISTIVE BARRIER:

a. 2-LAYERS OF GRADE D PAPER APPLIED OVER WOOD-BASED SHEATHING; AND, OVERLAPPING THE WEEP SCREED ATTACHMENT

BATHTUB AND SHOWER FLOORS AND WALLS ABOVE BATHTUBS WITH INSTALLED SHOWER HEADS AND IN SHOWER COMPARTMENTS SHALL BE FINISHED WITH A NONABSORBENT SURFACE. SUCH WALL SURFACES SHALL EXTEND TO A HEIGHT OF NOT LESS THAN 6 FEET(72") ABOVE THE FLOOR (CRC R307.2) SURFACE DRAINAGE SHALL BE DIVERTED TO A STORM SEWER CONVEYANCE OR OTHER APPROVED POINT OFCOLLECTION THAT DOES NOT CREATE A HAZARD. LOTS SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM THE FOUNDATION WALLS, THE GRADE SHALL FALL NO FEWER THAN 6" WITHIN THE FIRST 10' (5% SLOPE) WHERE WITHIN LANDSCAPING AREAS AND 2 PERCENT WITHING HARDSCAPED AREAS. EXCEPTION: WHERE LOT LINES, WALLS, SLOPES OR OTHER PHYSICAL BARRIERS PROHIBIT 6" OF FALL WITHIN 10 FEET, DRAINS OR SWALES SHALL BE ONSTRUCTED TO ENSURE DRAINAGE AWAY FROM THE STRUCTURE. IMPERVIOUS SURFACES WITHIN 10 FEET OF THE UILDING FOUNDATION SHALL BE SLOPED NOT ESS THAN 2 PERCENT AWAY FROM THE BUILDING.(CRC R401.3). LOW AWAY FROM STRUCTURE AND 1.0% MIN. IN FLOW LINES AROUND STRUCTURE. WHERE TOP OR SOLE PLATE ARE CUT FOR PIPES, A METAL TIE MINIMUM 0.058 INCHES THICK AND 1-1/2" WIDE HALL BE FASTENED ACROSS THE OPENING WITH (6) 16D NAILS MINIMUM EACH SIDE 1.91 FIELD CUTTING ENDS, NOTCHES AND DRILLED HOLES IN PRESERVATIVE-TREATED WOOD SHALL BE TREATED IN THE FIELD IN ACCORDANCE WITH AWPA M4 FIRE BLOCKING MUST BE PROVIDED IN ACCORDANCE WITH CRC SECTION R302.11 AT THE FOLLOWING LOCATIONS:

IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AT THE CEILING AND FLOOR LEVELS. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AT 10-FOOT INTERVALS ALONG THE LENGTH OF THE AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS AND COVE CEILINGS

SMOKE & CARBON-MONOXIDE ALARMS: SMOKE ALARMS COMPLYING WITH UL 217 SHALL BE INSTALLED IN EACH SLEEPING

ROOM, OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS, AND AT EACH FLOOR OR BASEMENT LEVEL. (CRC R314.1) SHALL BE HARDWIRED, INTERCONNECTED WITH BATTERY BACKUP. SMOKE ALARM SHALL BE INSTALLED AT LEAST 3-FEET AWAY FROM OPENINGS TO BATHROOMS, THE TIPS OF CEILING FANS AND FROM HVAC SUPPLY REGISTERS; A MINIMUM OF 6-FEET FROM PERMANENTLY INSTALLED COOKING APPLIANCES; WHERE 6- TO 10-FEET FROM PERMANENTLY INSTALLED COOKING APPLIANCES THE SYSTEM MUST BE A PHOTOELECTRIC TYPE AND WHERE 10- TO 20-FEET A PHOTOELECTRIC SYSTEM OR IONIZATION SYSTEM WITH A SILENCING SWITCH.(CRC R314.3.3)

A. BATHROOM AND AIRFLOW: SMOKE ALARMS/DETECTORS SHALL HAVE A 3-FEET HORIZONTAL DISTANCE BETWEEN BATHOOM OPENINGS, TIPS OF FANS AND THE SUPPLY REGISTER OF HVAC SYSTEM. ALSO SMOKE ALARMS/DETECTORS SHALL NOT BE IN THE DIRECT AIRFLOW OF THE SUPPLY REGISTER.

DISTANCES BETWEEN SMOKE ALARMS/DETECTORS AND PERMANENTLY INSTALLED COOKING APPLIANCES. THE HORIZONTAL DISTANCE BETWEEN SMOKE ALARMS/DETECTORS AND PERMANENTLY INSTALLED COOKING APPLIANCES SHALL BE 6-FEET. WHEN THE DISTANCE IS BETWEEN 6- TO 10- FEET THE SYSTEM SHALL BE PHOTOELECTRIC SYSTEM AND WHEN THE DISTANCE IS BETWEEN 10- 20-FFFT THE SYSTEM SHALL BE A PHOTOELECTRIC SYSTEM OR AN IONIZATION TYPE WITH A SILENCING SHALL BE INSTALLED IN HALLWAY AND IN THE ROOM OPEN TO THE

HALLWAY IN DWELLING UNITS WHERE THE CEILING HEIGHT OF A ROOM OPEN TO A HALLWAY SERVING BEDROOMS EXCEEDS THAT OF THE HALLWAY BY 24 IN OR MORE.

CARBON MONOXIDE ALARMS COMPLYING WITH UL 2034 SHALL BE INSTALLED IN EACH SLEEPING ROOM CONTAINING A FUEL-BURNING APPLIANCE, OUTSIDE EACH SLEEPING AREA AND ON EVERY STORY OF DWELLING UNITS THAT HAVE AN ATTACHED GARAGE OR FUEL-BURNING APPLIANCES. (CRC R315.1) SHALL BE HARDWIRED WITH BATTERY BACKUP.

DOORS & WINDOWS: EMERGENCY ESCAPE AND RESCUE OPENINGS REQUIRED. EVERY SLEEPING ROOM,

BASEMENT AND HABITABLE ATTIC SHALL HAVE AT LEAST ONE OPERABLE EMERGENCY ESCAPE AND RESCUE OPENING. (CRC R310.1) ALL EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM CLEAR OPENING OF 5.7 -SQUARE FEET, WITH A MINIMUM NET CLEAR OPENING HEIGHT OF 24- INCHES AND WIDTH OF 20-INCHES. THE BOTTOM OF THE CLEAR OPENING SHALL BE A MAXIMUM OF 44-INCHES ABOVE THE FLOOR. (CRC R310.2) FLOORS AND LANDINGS AT EXTERIOR DOORS. THERE SHALL BE A LANDING OR FLOOR ON EACH SIDE OF EACH EXTERIOR DOOR. THE WIDTH OF EACH LANDING SHALL BE NOT LESS THAN THE DOOR SERVED. LANDINGS SHALL HAVE A DIMENSION OF NOT LESS THAN 36 INCHES MEASURED IN THE DIRECTION OF TRAVEL. THE SLOPE AT EXTERIOR LANDINGS SHALL NOT EXCEED 14 UNIT VERTICAL IN 12 UNITS HORIZONTAL(2 PERCENT) (CRC R311.3) NOT LESS THAN ONE EGRESS DOOR SHALL BE PROVIDED FOR EACH DWELLING

UNIT. THE EGRESS DOOR SHALL BE SIDE—HINGED, AND SHALL PROVIDE A CLEAR WIDTH OF NOT LESS THAN 32 INCHES WHERE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. THE CLEAR HEIGHT OF THE DOOR OPENING SHALL BE NOT LESS THAN 78 INCHES IN HEIGHT MEASURED FROM THE TOP OF THE THRESHOLD TO THE BOOM OF THE STOP. EGRESS DOORS SHALL BE READILY OPENABLE FORM INSIDE THE DWELLING WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. (CRC R311.2) FLOOR ELEVATION AT REQUIRED EGRESS DOOR. LANDINGS OR FINISHED FLOOR AT THE REQUIRED EGRESS DOOR SHALL BE NOT MORE THAN 1-1/2 INCHES LOWER THAN THE TOP OF THE THRESHOLD. THE LANDING OR FLOOR ON THE EXTERIOR SIDE SHALL BE NOT MORE THAN 7-3/4 INCHES BELOW THE TOP OF THE THRESHOLD PROVIDED THAT THE DOOR DOES NOT SWING OVER THE LANDING (FLOOR. (CRC R311.3.1) LANDINGS SHALL BE A MAXIMUM OF 2.0%(14" PER FOOT) SLOPE IN ANY DIRECTION SAFETY GLAZING. PROVIDE SAFETY GLAZING IN ACCORDANCE WITH CRC R308 AT

SHOWN AND LABELED LOCATIONS ON PLAN. (CATEGORY II(TEMPERED) GLAZING

GARAGES & CARPORTS:

GARAGES AND CARPORTS SHALL BE COMPLETELY SEPARATED FROM THE DWELLING AND ATTIC AREAS, AND PROTECTED BY A MINIMUM OF 1/2-INCH GYPSUM BOARD OR EQUIVALENT APPLIED TO THE GARAGE SIDE OF SEPARATING WALLS AND CEILINGS AND SHALL EXTEND FROM THE FLOOR TO THE UNDERSIDE OF THE ROOF SHEATHING. (CRC R302.6 & TABLE R302.6)

TESTED IN ACCORDANCE WITH CPSC 16 CFR 1201)

DOORS BETWEEN THE GARAGE AND RESIDENCE SHALL BE NOT LESS THAN 1-3/8 INCHES THICK OF SOLID WOOD OR STEEL, OR 20-MINUTE FIRE-RATED DOOR ASSEMBLIES, AND EQUIPPED WITH A SELF-CLOSING AND SELF-LATCHING DEVICE. (CRC R302.5.1) DOOR TO HAVE PROPER WEATHER STRIPPING, GASKETS OR SIMILAR PROVISIONS TO MINIMIZE THE MIGRATION OF CONTAMINATES BETWEEN THE GARAGE AND DWELLING.(CENC 150.0, ASHRAE 62.2, 6.5.1) GARAGE FLOORS SHALL BE SLOPED TOWARD AREA DRAINS OR THE MAIN VEHICLE ENTRY DOORWAY. (R309.1)

UNDER-FLOOR SPACES SHALL BE PROVIDED WITH VENTILATION OPENINGS THROUGH FOUNDATION WALLS OR EXTERIOR WALLS. ONE VENTILATION OPENING SHALL BE WITHIN 3-FEET OF EACH CORNER OF THE BUILDING. (CRC R408.2) UNDER-FLOOR AREAS SHALL HAVE ACCESS OPENINGS AS FOLLOWS: (CRC R408.4 & A. THROUGH WALL ACCESS OPENINGS SHALL BE AT LEAST 16 BY 24 INCHES;

THROUGH FLOOR ACCESS OPENINGS SHALL BE AT LEAST 18 BY 24 INCHES. WHERE AN APPLIANCE IS INSTALLED OPENINGS AND PASSAGEWAY SHALL BE NOT LESS THAN THE LARGEST COMPONENT OF THE APPLIANCE, AND AT LEAST 22 BY 30 INCHES. WHERE ANY PORTION OF A THROUGH-WALL ACCESS OPENING IS BELOW GRADE, AN AREAWAY NOT LESS THAN 16 BY 24 INCHES SHALL BE PROVIDED. THE BOTTOM OF THE AREAWAY SHALL BE BELOW THE THRESHOLD OF THE ACCESS OPENING. (CRC AREAWAYS SHALL BE PROTECTED FROM SITE DRAINAGE BY CURBS OR SIMILAR

DEVICES. (CRC R408.6) ATTIC ACCESS OPENINGS SHALL BE PROVIDED INTO EACH ATTIC AREA THAT HAS A VERTICAL HEIGHT OF 30 INCHES OR GREATER OVER AN AREA OF 30-SQUARE FEET OR MORE; OR IN WHICH AN APPLIANCE IS INSTALLED. (CRC R807.1 & CMC 304.4) ATTIC ACCESS SHALL MEET THE FOLLOWING: (CRC R807 1 & CMC 304 4) A. MINIMUM 22 BY 30 INCHES OR THE SIZE OF THE LARGEST COMPONENT OF

ANY APPLIANCE INSTALLED IN THE ATTIC; LOCATED IN A HALLWAY OR OTHER READILY ACCESSIBLE LOCATION; SHALL NOT OPEN DIRECTLY INTO ANY SLEEPING ROOM; MINIMUM UNOBSTRUCTED HEADROOM OF 30-INCHES AT SOME POINT ABOVE THE ACCESS MEASURED VERTICALLY FROM THE BOTTOM OF CEILING FRAMING

E. CEILING INSULATION SHALL BE PERMANENTLY ATTACHED TO THE ATTIC ACCESS DOOR WITH ADHESIVE OR WITH MECHANICAL FASTENERS, AND THE ACCESS DOOR SHALL HAVE A GASKET OR WEATHER STRIPPING TO RESTRICT THE FLOW OF AIR. APPLIANCES IN ATTICS AND UNDERFLOOR SPACES SHALL BE ACCESSIBLE AS FOLLOWS: (CMC304.4)

A. THROUGH AN ACCESS OPENING NOT LESS THAN 22 BY 30 INCHES OR THE SIZE OF THE LARGEST COMPONENT OF ANY APPLIANCE INSTALLED IN THE B. WHERE THE HEIGHT OF THE PASSAGEWAY IS LESS THAN 6' TALL, 20-FEET MAXIMUM PASSAGEWAY FROM THE ACCESS OPENING TO THE APPLIANCE, MEASURED ALONG THE CENTERLINE OF THE PASSAGEWAY; THE PASSAGEWAY SHALL HAVE SOLID FLOORING AT LEAST 24-INCHES WIDE

D. A LEVEL WORKING PLATFORM AT LEAST 30 BY 30 INCHES IN FRONT OF THE SERVICE SIDE OF THE APPLIANCE. A PERMANENT 120V RECEPTACLE OUTLET AND A LIGHTING FIXTURE SHALL BE INSTALLED NEAR THE APPLIANCE.(CEC 210.70(A)(3)). THE SWITCH CONTROLLING THE LIGHTING FIXTURE SHALL BE LOCATED AT THE ACCESS

AND SHALL BE UNOBSTRUCTED FROM THE ENTRANCE OPENING TO THE

1. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. (CMC 303.1) d. SHALL BE OF A TYPE THAT WILL ALLOW TRAPPED WATER TO DRAIN EXHAUST DUCTS SHALL TERMINATE NOT LESS THAN 3-FEET FROM A PROPERTY LINE OR OPENING INTO A BUILDING, 10-FEET FROM A FORCED AIR INLET, AND SHALL NOT DISCHARGE ONTO A PUBLIC WALKWAY. (CMC502.2.1) SUPPLY AND RETURN AIR DUCTS TO BE INSULATED AS REQUIRED ON THE CF-1R ALL KITCHEN AREAS SHALL BE PROVIDED WITH A HOOD EXHAUST AND VENTILATION

> ASHRAE 62.2, CMC 504.1.1,) A. MINIMUM EXHAUST RATE OF 100 CFM;

MAXIMUM SOUND RATING OF 3 SONES; VENTED DIRECTLY TO THE BUILDING EXTERIOR; AND, VENT DUCTS TO HAVE A SMOOTH METALLIC INTERIOR SURFACE. SHALL BE HERS VERIFIED AND TESTED.[CENC 150.0(0)2] KITCHEN RANGE HOODS SHALL BE FIELD VERIFIED FOR VENTILATION AIR FLOW AS SPECIFIED IN ASHRAE 62.2, 5.4 AND SHALL BE VERIFIED FOR THE SOUND RATING PROVISION OF ASHRAE 62.2, 7.2 AS ADOPTED AND AMENDED BY CENC

SYSTEM THAT MEETS OR EXCEEDS THE FOLLOWING: (CENC 150.0(0), CMC 403.7 &

150.0(0)1G. BATHROOMS AND ROOMS CONTAINING BATHTUBS, SHOWERS, SPAS AND SIMILAR FIXTURES SHALL HAVE MECHANICAL VENTULATION COMPLYING WITH THE FOLLOWING: (CRC R303.3.1, CENC 150.0(0), CG4.506.1, CMC 403. 7 & ASHRAE 62.2) MINIMUM EXHAUST RATE OF 50 CFM;

MAXIMUM SOUND RATING OF 3 SONES: HUMIDITY CONTROLS SHALL BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF <50 PERCENT TO A MAXIMUM OF 80 D. HUMIDITY CONTROL MAY BE A SEPARATE COMPONENT FROM THE EXHAUST

FAN AND IS NOT REQUIRED TO BE INTEGRAL (I.E., BUILT-IN).

VENTED DIRECTLY TO THE BUILDING EXTERIOR ENERGY STAR COMPLIANT: AND. SHALL BE SWITCHED SEPARATELY FROM THE LIGHT UNLESS ALLOWED TO OPERATE WHEN THE LIGHT IS SWITCHED OFF. H. UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY A HUMIDITY CONTROL.

CLOTHES DRYERS SHALL HAVE EXHAUST DUCTS AS FOLLOWS: (CMC 504.4.2) A. CONSTRUCTED OF RIGID METAL WITH SMOOTH INTERIOR SURFACES AND TERMINATE TO THE OUTSIDE OF THE BUILDING; B. MINIMUM DIAMETER 4-INCHES NOMINAL, AND NOT LESS THAN 0.016 INCH WALL THICKNESS; C. MAXIMUM 14-FEET COMBINED RUN LENGTH (HORIZONTAL AND VERTICAL),

INCLUDING UP TO TWO 90 DEGREE ELBOWS. PROVIDE 100 SQUARE INCHES OF VENT IN DOOR OF CLOTHES DRYER COMPARTMENT FOR MAKUP AIR (CMC504.4.1(1))CONTINUOUS EXHAUST FANS AS WELL AS FANS FOR WHOLE BUILDING DWELLING UNIT VENTILATION SYSTEMS OF ASHRAE, SECTION 4, SHALL HAVE A MAXIMUM SOUND RATING OF ONE—SONE(ASHRAE 62.2, 7.2.1)

1. ALL PLUMBING FIXTURES AND FITTINGS SHALL COMPLY WITH THE FOLLOWING MAXIMUM FLOWRATES: (CG 4.303.1)

FIXTURE TYPE FLOW RATE	FLOW RATE
SHOWER HEADS	1.8 GMP @ 80 PSI
(RESIDENTIAL)	
LAVATORY FAUCETS	MAX. 1.2 GPM @ 60 PSI
(RESIDENTIAL)	MIN. 0.8 GPM @ 20 PSI
LAVATORY FAUCETS IN	0.5 GPM @ 60 PSI
COMMON & PUBLIC USE AREAS	
KITCHEN FAUCETS	1.8 GPM @ 60 PSI
METERING FAUCETS	0.2 GAL/CYCLE
WATER CLOSET	1.28 GAL/FLUSH

A MINIMUM 24 BY 30 INCH CLEAR AREA SHALL BE PROVIDED IN FRONT OF EACH WATER CLOSET, LAVATORY OR SIMILAR FIXTURE. NO WATER CLOSET SHALL BE SET CLOSER THAN 15-INCHES FROM ITS CENTER TO A SIDE WALL OR OBSTRUCTION. (CPC 402.5)

WHEN LOCATED IN A GARAGE, APPLIANCES AND WATER HEATER SHALL BE INSTALLED SO THAT BURNERS AND BURNER-IGNITION DEVICES ARE LOCATED NOT LESS THAN 18- INCHES ABOVE THE GARAGE FLOOR. (CPC 507.13) WATER HEATERS, GAS METERS AND OTHER GAS APPLIANCES INSTALLED IN GARAGES, ALONG DRIVEWAYS OR OTHER AREAS SUBJECT TO VEHICLE DAMAGE SHALL BE PROTECTED BY ONE OR MORE 4-INCH DIAMETER, CONCRETE FILLED, STEEL PIPES, HAVING MINIMUM 12 INCH DIAMETER BY 18 INCH DEEP CONCRETE FOOTINGS AND EXTENDING AT LEAST 36 INCHES ABOVE THE VEHICLE SURFACE. (CMC 305.11, CPC 507.13.1 & CBC 1807.3.2) WATER HEATERS TO BE STRAPPED AT TOP AND BOTTOM WITH 1-1/2 INCH X 16

GAUGE STRAP, WITH A 3/8 INCH DIAMETER BY 3-INCH LAG BOLT AT EACH END. (CPC 507.2) ROOF AND DECK DRAIN SYSTEMS INSIDE THE BUILDING ARE REQUIRED TO BE INSTALLED WITH DIRECTIONAL DWV DRAINAGE FITTINGS. (CPC 1101.3 & 706.0) CLEANOUTS ARE REQUIRED WITHIN 2-FEFT OF THE CONNECTION BETWEEN THE INTERIOR ROOF AND DECK DRAIN PIPING SYSTEM, AND THE EXTERIOR ONSITE STORM

DRAIN SYSTEM (CPC 1101.12) A NONREMOVABLE BACKFLOW PREVENTER OR VACUUM BREAKER SHALL BE INSTALLED ON THE DISCHARGE SIDE OF EACH HOSE BIBB NOT LESS THAN 6-INCHES ABOVE THE HIGHEST POINT OF USAGE. (CPC 603.5.7) 9. NO MORE THAN 5 WATER CLOSETS SHALL BE INSTALLED ON A 3-INCH HORIZONTAL DRAINAGE SYSTEM LINE. NO MORE THAN 5 WATER CLOSETS SHALL BE INSTALLED

ON A 3-INCH VERTICAL DRAINAGE SYSTEM LINE. (CPC TABLE 703.2) 10. INSULATION FOR PIPINGS AND TANKS WATER PIPING, SOLAR WATER-HEATING SYSTEM PIPING, AND SPACE-CONDITIONING SYSTEM LINE INSULATION THICKNESS AND CONDUCTIVITY. PIPING SHALL BE INSULATED AS FOLLOWS A. ALL DOMESTIC HOT WATER PIPING SHALL BE INSULATED AS SPECIFIED IN SECTION 609.11 OF THE CALIFORNIA PLUMBING CODE.

> SYSTEM COLLECTOR LOOP, AND DISTRIBUTION PIPING FOR STEAM AND HYDRONIC HEATING SYSTEM SHALL MEET THE REQUIREMENTS OF SECTION120.3 (C). a. FACTORY- INSTALLED PIPING WITHIN SPACE-CONDITIONING EQUIPMENT CERTIFIED UNDER SECTION 110.1 OR 110.2. PIPING THAT PENETRATES FRAMING MEMBERS SHALL NOT BE REQUIRED TO HAVE PIPE INSULATION FOR THE DISTANCE OF THE FRAMING PENETRATION. PIPING THAT PENETRATES METAL FRAMING SHALL USE GROMMETS, PLUGS, WRAPPING OR OTHER INSULATING MATERIAL TO ASSURE THAT NO THE REQUIREMENTS ARE MET FOR COMPLIANCE WITH

PIPING FOR SPACE-CONDITIONING SYSTEMS, SOLAR WATERHEATING

CONTACT IS MADE WITH THE METAL FRAMING. INSULATION SHALL BUTT SECURELY AGAINST ALL FRAMING MEMBERS. c. PIPING INSTALLED IN INTERIOR OR EXTERIOR WALLS SHALL NOT BE REQUIRED TO HAVE PIPE INSULATION IF ALL OF QUALITY INSULATION INSTALLATION (QII) AS SPECIFIED IN THE REFERENCE RESIDENTIAL APPENDIX RA3.5. d. PIPING SURROUNDED WITH A MINIMUM OF 1 INCH OF WALL INSULATION, 2 INCHES OF CRAWLSPACE INSULATION, OR 4 INCHES OF ATTIC INSULATION SHALL NOT BE REQUIRED TO HAVE PIPE INSULATION.

C. PIPE INSULATION SHALL MEET THE INSULATION PROTECTION REQUIREMENTS OF SECTION 120.3(B). SHOWERS AND TUB-SHOWERS SHALL BE PROVIDED WITH INDIVIDUAL CONTROLS OF THE THERMOSTATIC, PRESSURE BALANCE TYPE OR COMBINATION THERMOSTATIC/PRESSURE BALANCE CONTROL VALVE TYPE PER THE CPC SECTION

12. PROVIDE AIR GAP AT DISHWASHER INSTALLATION PER CPC 414.3. 13. PROVIDE BACKWATER VALVE FOR SEWER IF THE FLOOR LEVEL IS LOCATED BELOW THE ELEVATION OF THE NEXT UPSTREAM MANHOLE COVER PER THE CPC 710.1 14. WATER HEATERS SHALL COMPLY WITH MANDATORY ENGERY REQUIREMENTS LISTED IN THE "2022 LOW-RISE RESIDENTIAL MANDATORY MEASURES SUMMARY", ITEMS 150.0(N) 1-3 SHOWN ON SHEET T24-2

SYSTEMS USING GAS OR PROPANE WATER HEATERS TO SERVE INDIVIDUAL DWELLING UNITS SHALL INCLUDE A SPACE AT LEAST 2.5 FT BY 2.5 FT WIDE AND 7 FT TALL SUITABLE FOR THE FUTURE INSTALLATION OF A HEAT PUMP WATER HEATER (HPWH) BY MEETING A OR B BELOW. ALL ELECTRICAL COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE

> IF THE DESIGNATED SPACE IS WITHIN 3FT FROM THE WATER HEATER, THEN THIS SPACE SHALL INCLUDE THE FOLLOWING THE FOLLOWING COMPONENTS: A. A DEDICATED 125 VOLT, 20 AMP ELECTRICAL RECEPTACLE THAT IS CONNECTED TO THE ELECTRIC PANEL WITH A 120/240 VOLT 3 CONDUCTOR, 10 AWG COPPER BRANCH CIRCUIT, WITHIN 3FT FROM THE WATER HEATER AND ACCESSIBLE TO THE WATER HEATER WITH NO OBSTRUCTIONS. IN ADDITION, ALL OF THE FOLLOWING: BOTH ENDS OF THE UNUSED CONDUCTOR SHALL BE LABELED WITH THE WORD "SPARE" AND BE ELECTRICALLY ISOLATED: AND A RESERVED SINGLE POLE CIRCUIT BREAKER SPACE IN THE ELECTRICAL PANEL ADJACENT TO THE CIRCUIT BREAKER FOR THE BRANCH CIRCUIT IN A ABOVE AND LABELED WITH THE WORDS "FUTURE 240V USE"; AND

D. A CONDENSATE DRAIN THAT IS NO MORE THAN 2IN HIGHER THAN THE BASE OF THE INSTALLED WATER HEATER, AND ALLOWS NATURAL DRAINING WITHOUT PUMP ASSISTANCE IF DESIGNATED SPACE IS MORE THAN 3FT FROM THE WATER HEATER, THEN THIS SPACE SHALL INCLUDE THE FOLLOWING A. A DEDICATED 240 VOLT BRANCH CIRCUIT SHALL BE INSTALLED WITHIN 3 FT FROM THE DESIGNATED SPACE. THE BRANCH CIRCUIT

SHALL BE RATED AT 30 AMPS MIN. THE BLANK COVER SHALL BE IDENTIFIED AS "240V READY": AND THE MAIN ELECTRICAL SERVICE PANEL SHALL HAVE A RESERVED SPACE TO ALLOW FOR THE INSTALLATION OF A DOUBLE POLE CIRCUIT BREAKER FOR A FUTURE HPWH INSTALLATION. THE RESERVED SPACE SHALL BE PERMANENTLY MARKED AS "FOR FUTURE 240V USF": AND

SUPPLY SHALL PASS THROUGH THE DESIGNATED HPWH LOCATION JUST BEFORE REACHING THE GAS OR PROPANE WATER HEATER; THE HOT WATER SUPPLY PIPE COMING OUT OF THE GAS OR PROPANE WATER HEATER SHALL BE ROUTED FIRST THROUGH THE DESIGNATED HPWH LOCATION BEFORE SERVING ANY FIXTURES; AND THE HOT AND COLD WATER PIPING AT THE DESIGNATED HPWH LOCATION SHALL BE EXPOSED AND READILY ACCESSIBLE FOR FUTURE INSTALLATION OF AN HPWH; AND F. A CONDENSATE DRAIN THAT IS NO MORE THAN 2IN HIGHER THAN

THE BASE OF THE INSTALLED WATER HEATER, AND ALLOWS

C. EITHER A DEDICATED COLD WATER SUPPLY, OR THE COLD WATER

1. EDISON COMPANY APPROVAL IS REQUIRED FOR ELECTRIC METER LOCATION AND/OR RELOCATION PRIOR TO METER INSTALLATION. FIELD INSPECTORS TO REVIEW AND APPROVE UNDERGROUND SERVICES PRIOR TO CONCRETE PLACEMENT. SERVICE EQUIPMENT AND SUBPANELS TO HAVE A MINIMUM 30 BY 36 INCH CLEAR

NATURAL DRAINING WITHOUT PUMP ASSISTANCE.

WORK SPACE ON A LEVEL SURFACE WITH 78 INCH CLEAR HEIGHT. (CEC 110.26(A)) SUBPANELS ARE NOT ALLOWED TO BE LOCATED IN BATHROOMS OR CLOTHES CLOSETS. (CEC 240.24(D) & (E)) CIRCUITS SHARING A GROUNDED CONDUCTOR (NEUTRAL) WITH TWO UNGROUNDED (HOT) CONDUCTORS MUST USE A TWO POLE CIRCUIT BREAKER OR AN IDENTIFIED HANDLE TIE. (CEC 200.4(B))

GROUP NON-CABLE CIRCUITS IN PANEL (CEC 210.4(D)) GROUND FAULT CIRCUIT INTERRUPTER (GFCI) PROTECTION SHALL BE PROVIDED AT ALL RECEPTACLE OUTLETS IN BATHROOMS, CRAWL SPACES, GARAGES, ROOFTOPS, OUTDOOR OUTLETS, AND ABOVE KITCHEN COUNTERTOPS, DISHWASHERS OR WITHIN 6-FEET OF A WET-BAR OR LAUNDRY SINK. (CEC 210.8) 8. COMBINATION TYPE ARC FAULT CIRCUIT INTERRUPTER (AFCI) CIRCUIT BREAKERS ARE REQUIRED FOR ALL 120V SINGLE PHASE 15A/20A BRANCH CIRCUITS. (CEC A MINIMUM OF 2 DEDICATED 20-AMPERE CIRCUITS ARE REQUIRED FOR ALL

RECEPTACLE OUTLETS IN THE KITCHEN, DINING ROOM, BREAKFAST AREA, PANTRY OR SIMILAR AREAS. (CEC 210.11(C)(1) & 210.52(B)) 10. KITCHEN COUNTERTOPS 12-INCHES OR WIDER MUST HAVE RECEPTACLE OUTLETS INSTALLED SO NO POINT ALONG THE COUNTER WALL IS MORE THAN 24-INCHES PERCENT. A HUMIDITY CONTROL MAY UTILIZE MANUAL OR AUTOMATIC MEANS 11. KITCHEN ISLAND AND PENINSULAR COUNTERTOPS MUST HAVE AT LEAST ONE RECEPTACLE. (CEC 210.52(C))

12. A MINIMUM OF ONE DEDICATED 20-AMPERE CIRCUIT IS REQUIRED FOR EACH BATHROOM AND LAUNDRY ROOM. (CEC 210.11(C)(2)&(3)) 13. IN BATHROOMS, A GFCI PROTECTED RECEPTACLE OUTLET IS REQUIRED WITHIN 3-FEET OF THE EDGE OF EACH SINK. (CEC 210.52(D)) G. LIGHTING INTEGRAL TO EXHAUST FANS SHALL COMPLY WITH THE CENC. FAN 14. RECEPTACLE OUTLETS ARE NOT ALLOWED WITHIN OR OVER A BATHTUB OR SHOWER STALL. RECEPTACLES SHALL NOT BE INSTALLED WITHIN 3 FT HORIZONTALLY AND 8 FT VERTICALLY FROM THE TOP OF THE BATHTUB RIM OR SHOWER STALL THRESHOLD. (CEC 406.9(C)) 15. WITHIN KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, DENS, SUNROOMS,

BEDROOMS, OR SIMILAR ROOMS OR AREAS OF THE DWELLING, A RECEPTACLE OUTLETS MUST BE LOCATED SO THAT NO POINT ON ANY WALL, FIXED GLASS, OR CABINETS IS OVER 6-FEET FROM A RECEPTACLE OUTLET ON WALLS THAT ARE 2 FEET OR WIDER. (CEC 210.52(A)(1)) 16. HALLWAYS 10-FEET OR LONGER MUST HAVE AT LEAST ONE RECEPTACLE OUTLET.

(CEC 210.52(H)) 17. ALL RECEPTACLE OUTLETS ARE REQUIRED TO BE LISTED TAMPER—RESISTANT RECEPTACIES. (CEC 406.12) 18. PROVIDE READILY ACCESSIBLE EXTERIOR RECEPTACLE AT THE FRONT AND REAR OF THE THE DWELLING, NOT MORE THAN 6'-6" ABOVE GRADE (CEC 210.8,CEC 210.52(E)(1) AND 406.9). SHALL BE WEATHER-PROTECTED

19. LUMINAIRES LOCATED WITHIN TUB AND SHOWER ZONES 3 FEET HORIZONTALLY OR 8 FEET ABOVE THE TOP OF BATHTUB RIM OR SHOWER THRESHOLD SHALL BE APPROVED FOR "DAMP" OR "WET" LOCATIONS PER CEC 410.10(A), (D). 20. ALL RECEPTACLES IN THE BEDROOM, THE DINING ROOM, KITCHEN, LAUNDRY AREA, HALLWAY, DEN, LIBRARIES, CLOSET, AND FAMILY ROOM AND SIMILAR ROOMS SHALL BE ARC-FAULT CIRCUIT INTERRUPTER PER CEC ARTICLE 210.12. 21. PROVIDE THE SEPARATE SWITCH FOR THE LIGHTING FIXTURE AND THE EXHAUST FAN IN THE BATHROOM OR THE FAN SHALL BE ABLE TO CONTINUE TO OPERATE WITH LIGHT SWITCH OFF PER CALIFORNIA ENERGY CODE 150.0(K)2. 22. AN AUTOMATIC GARAGE DOOR BACKUP BATTERY IS REQUIRED ON NEW GARAGE DOOR OPENERS PER SB 969

23. 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 SUB-PANEL AND SHALL TERMINATE INTO A LISTED CABINET, BOX OR OTHER ENCLOSURE IN CLOSE PROXIMITY TO THE PROPOSED LOCATION OF AN EV CHARGER. THE SERVICE PANEL AND/OR SUB-PANEL SHALL PROVIDE CAPACITY TO INSTALL A 40-AMPERE MINIMUM DEDICATED BRANCH CIRCUIT AND SPACE RESERVED TO PERMIT INSTALLATION OF A BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE. (CGB

4.106.1.1) 24. PROVIDE A 125-VOLT, SINGLE PHASE, 15- OR 20-AMPERE-RATED RECEPTACLE OUTLET AT AN ACCESSIBLE LOCATION FOR THE SERVICING OF HEATING, AIR-CONDITIONING AND REFRIGERATION EQUIPMENT. THE RECEPTACLE SHALL BE LOCATED ON THE SAME LEVEL AND WITHIN 25 FEET OF THE HEATING, AIR-CONDITIONING, AND REFRIGERATION EQUIPMENT. THE RECEPTACLE OUTLET SHALL NOT BE CONNECTED TO THE LOAD SIDE OF THE EQUIPMENT DISCONNECTING MEANS.(CEC 210.63) FOR SERVICING OF THE AIR-COMPRESSOR EQUIPMENT AND AS REQUIRED BY CEC 210.63(B) FOR ELECTRICAL SERVICE EQUIPMENT. SHALL BE A DEDICATED 120 VOLT, 20 AMP ELECTRICAL RECEPTACLE THAT IS CONNECTED TO THE ELECTRICAL PANEL WITH A 120/240 VOLT 3 CONDUCTOR, 10

PROVIDE A DEDICATED RECEPTACLE OUTLET FOR WATER HEATER [CENC(N) 1A]. THIS AWG COPPER BRANCH CIRCUIT, WITHIN 3 FEET FROM THE WATER HEATER AND ACCESSIBLE TO THE WATER HEATER WITH NO OBSTRUCTIONS. IN ADDITION, ALL THE FOLLOWING SHALL BE PROVIDED: A. BOTH ENDS OF THE UNUSED CONDUCTOR SHALL BE LABELED WITH THE WORD "SPARE" AND BE ECLECTICALLY ISOLATED: AND

B. A RESERVED SINGLE POLE CIRCUIT BREAKER SPACE IN THE ELECTRICAL PANEL ADJACENT TO THE CIRCUIT BREAKER FOR THE BRANCH CIRCUIT IN A ABOVE AND LABELED WITH THE WORDS "FUTURE 240V USE". 26. FOR DWELLING UNITS. ATTACHED GARAGES. AND DETACHED GARAGES WITH ELECTRIC POWER, AT LEAST ONE WALL SWITCH-CONTROLLED LIGHTING OUTLET SHALL BE INSTALLED TO PROVIDE ILLUMINATION ON THE EXTERIOR SIDE OF OUTDOOR ENTRANCES OR EXITS WITH GRADE LEVEL ACCESS. A VEHICLE DOOR IN A GARAGE SHALL NOT BE CONSIDERED AS AN OUTDOOR ENTRANCE OR EXIT. [CEC 210.70(A)(2) (2)] EXTERIOR LIGHTING SHALL BE CONTROLLED BY A PHOTOCELL, MOTION SENSOR OR AUTOMATIC TIMER(CENC 150.0(K)3A) 27. AN APPROVED INDEPENDENT ELECTRICAL DISCONNECT IS REQUIRED FOR EACH PIECE OF EQUIPMENT WITHIN SIGHT OF THE EQUIPMENT, WHEN SUPPLY VOLTAGE IS GREATER THAN 50 VOLTS. (CMC 301.4)

RECEPTACLES IN DWELLING UNIT FAMILY, DINING, LIVING, PARLORS, LIBRARIES, DENS.

BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR

ROOMS AND AREAS PER CEC SEC 406.12 1. ALL LIGHTING SHALL COMPLY WITH THE "LOW-RISE RESIDENTIAL MANDATORY MEASURES SUMMARY". (CENC150.0) ALL NEW OR RELOCATED, PERMANENTLY INSTALLED LIGHT FIXTURES SHALL BE CLASSIFIED AS HIGH EFFICACY. (CENC 150.0(K)1A & TABLE 150.0-A) INSTALLED NEAR AN ENTRANCE OF EACH HABITABLE ROOM, KITCHEN, BATHROOM,

28. RECEPTACLES SHALL BE LISTED AS TAMPER-RESISTANT FOR ALL 15 AND 20 AMPERE

AT IFAST ONE WALL SWITCH-CONTROLLED LIGHTING FIXTURE SHALL BE PERMANENTLY UTILITY ROOM, AND PRIVATE GARAGE, (CFC 210.70(A)) CEILING OR WALL ELECTRICAL BOXES THAT DO NOT CONTAIN A LUMINARIES OR OTHER DEVICE MUST BE SERVED BY A DIMMER, VACANCY SENSOR CONTROL, OR FAN SPEED CONTROL. (CENC 150.0(K)1E). THE BLANK ELECTRICAL BOXES OVER 5' ABOVE FINISHED FLOOR ARE LIMITED TO ONE PER BEDROOM. (CENC 150.0(K)1E) 5. AT LEAST ONE LIGHTING FIXTURE IN THE BATHROOMS, THE UTILITY ROOM, THE LAUNDRY ROOM, THE GARAGE AND POWER ROOM SHALL BE FLUORESCENT LIGHT FIXTURE UNLESS LIGHTINGS ARE CONTROLLED WITH VACANCY SENSOR. CENC SECTION 150.0(K)2F(I) 6. ALL LIGHTING IN THE BUILDING SHALL BE FLUORESCENT LIGHTING FIXTURE UNLESS

LIGHTINGS ARE CONTROLLED WITH VACANCY SENSOR OR DIMMERS. CENC SECTION 150.0(K) "RECESSED LIGHTS INSTALLED IN AN INSULATED CEILING OR CAVITY ARE REQUIRED TO HAVE A ZERO CLEARANCE INSULATION COVER (IC); BE HIGH EFFICACY; BE ASTM E 283 CERTIFIED THAT THEY ARE AIR TIGHT; AND THE SPACE BETWEEN THE THE RECESSED LIGHT HOUSING AND THE CEILING SHALL BE SEALED WITH A GASKET OR CAULK BETWEEN THE HOUSING AND THE CEILING: AND SHALL BE JA-8 COMPLIANT AS REQUIRED BY CENC 150.0(K)1C, CENC 150.0(K)1D"

VICINITY MAP 8. RESIDENTIAL OUTDOOR LIGHTING. RESIDENTIAL OUTDOOR LIGHTING SHALL MEET THE

FOR SINGLE-FAMILY RESIDENTIAL BUILDINGS, OUTDOOR LIGHTING PERMANENTLY MOUNTED TO A RESIDENTIAL BUILDING OR TO OTHER BUILDINGS ON THE SAME LOT SHALL MEET THE REQUIREMENT IN ITEM I AND THE REQUIREMENTS IN EITHER ITEM b. OR ITEM c.: a. CONTROLLED BY A MANUAL ON AND OFF SWITCH THAT PERMITS THE AUTOMATIC ACTIONS OF ITEMS II OR III BELOW; AND CONTROLLED BY A PHOTOCELL AND EITHER A MOTION SENSOR OR AN AUTOMATIC TIME SWITCH CONTROL; OR CONTROLLED BY AN ASTRONOMICAL TIME CLOCK CONTROL. NOTE:CONTROLS THAT OVERRIDE TO ON SHALL NOT BE ALLOWED UNLESS THE OVERRIDE AUTOMATICALLY RETURNS THE AUTOMATIC CONTROL TO ITS NORMAL OPERATION WITHIN 6 HOURS. AN ENERGY MANAGEMENT CONTROL SYSTEM THAT PROVIDES THE SPECIFIED LIGHTING CONTROL FUNCTIONALITY AND COMPLIES WITH ALL REQUIREMENTS APPLICABLE TO THE SPECIFIED CONTROLS MAY BE USED TO MEET THESE REQUIREMENTS. LIGHTING AROUND SWIMMING POOLS, WATER FEATURES, OR OTHER LOCATIONS SUBJECT TO ARTICLE 680 OF THE CEC ARE EXEMPT. ALL LIGHTS ARE TO BE HIGH EFFICACY EXCEPT AS PROVIDED BY CENC 150.0(K)1A. FOR CERTAIN NIGHT LIGHTS, STEP LIGHTS, PATH LIGHTS, AS WELL AS LIGHT SOURCES IN DRAWERS, CABINETS AND LINEN CLOSETS THAT CONSUME NO MORE THAN 5-WATTS OF POWER AND EMIT NO MORE THAN 45 LUMENS. LIGHTS IN DRAWERS, CABINETS AND LINEN CLOSETS SHALL ALSO HAVE AN AUTOMATIC OFF FUNCTION WHEN THE DRAWER, CLOSET OR CABINET IS CLOSED. EXCEPT AS PROVIDED BY CENC 150.0(K)1E FOR STEP LIGHTS AND PATH LIGHTS, ALL OUTDOOR LIGHTS SHALL BE HIGH EFFICACY AND SHALL HAVE LIGHT CONTROLS IN COMPLIANCE WITH THE PROVISIONS OF CENC 150.0(K)3.

FOLLOWING REQUIREMENTS, AS APPLICABLE:

1. ALL WORK SHALL COMPLY WITH THE CALIFORNIA ENERGY EFFICIENCY STANDARDS

(CEES) REQUIREMENTS AS LISTED ON: THE "2022 LOW-RISE RESIDENTIAL MANDATORY MEASURES"; AND, THE PROJECT SPECIFIC CF-1R REPORT

DRAWING INDEX

DESCRIPTION

00. GENERAL **COVER SHEET** 01. ARCHITECTURAL

****** WRITTEN DIMENSIONS ON THESE DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY, AND BE RESPONSIBLE FOR ALL DIMENSIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THE DRAWINGS. ******

A-1.0 SITE PLAN **DEMO PLAN** A-2.1 DEMO PLAN A-2.2

PROPPOSED FLOOR PLAN PROPOSED FLOOR PLAN, PARTIAL A-2.3 ELECTRICAL PLAN & SCHEDULES A-2.4 PROPOSED ROOF PLAN A-3.0 ELEVATION A-4.0 SECTIONS AD-1.0 ARCHITECTURAL DETAIL

02. STRUCTURAL

STRUCTURAL NOTES FOUNDATION PLAN FLOOR FRAMING PLAN ROOF FRAMING PLAN SD-1 STRUCTURAL DETAILS SD-2 FOUNDATION DETAILS WSWH1 STRONG-WALL WSWF WSWH2 STRONG-WALL WSWF WSWH4 STRONG-WALL WSWF

03. RESIDENTIAL TITLE 24

ALUM

ARCH

APPROX

BTWN/BE

RESIDENTIAL TITLE 24

TABULATION

ZONING CODE FLOOR AREA

(E)LIVING AREA(RENTABLE AREA):1ST FLR.: 1,809 SQ.FT. (N)LIVING AREA(RENTABLE AREA):1ST FLR. : 1,662 SQ.FT.

TOTAL PROPOSED LIVING AREA: BUILDING CODE FLOOR AREA

EXISTING:

(E)BUILDING AREA: 1ST FLR. : 1.862 SQ.FT. (E)BUILDING AREA: 2ND FLR.: 1,296 SQ.FT. (E)GARAGE: 476 SQ.FT.

(N)BUILDING AREA: 2ND FLR.(W/ ADDITIONAL SQ.FT.:195 SQ.FT.): 1,492 SQ.FT. (N)GARAGE W/... ADDITIONAL SQ.FT.(24 SQ.FT.) 2. PREVIOUS LAU. RM.(155 SQ.FT.): 655 SQ.FT.

(NOT INCLUDING GARAGE) TOTAL STRUCTURE AREA COVERED: 2,390 SQ. FT.

STRUCTURE COVERAGE (NOT INCLUDING DRIVEWAY) 2,390/17,501.31x100=13.66%

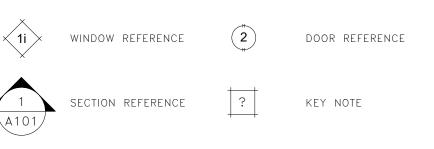
APPLICABLE CODES

LAND AREA APROX...... 17,501.31 SQ. FT.

ALL CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWINGS:

-(CBC) CALIFORNIA BUILDING CODE EDITION 2022 -(CMC) CALIFORNIA MECHANICAL CODE EDITION 2022 -(CPC) CALIFORNIA PLUMBING CODE EDITION 2022 -(CEC) CALIFORNIA ELECTRICAL CODE EDITION 2022 -(CBEES) CALIFORNIA ENERGY EDITION 2022 -(CRC) CALIFORNIA RESIDENTIAL CODE EDITION 2022 -(CALGREEN) CALIFORNIA GREEN BUILDING CODE 2022

THESE DRAWINGS DO NOT HAVE EVERY CONSTRUCTION DETAIL OR SPECIFICATION THAT COULD BE DRAWN AND DESCRIBED ON THIS DRAWINGS.THE DRAWINGS ARE DRAWN FOR THE EXCLUSIVE USE BY EXPERIENCED WELL SEASONNED CONTRIACTORS AND THEIR TRADES PEOPLE. ANY DISCRIPANCY SHALL BE BROUGHT IMMEDIATLY TO THE ATTENTION OF THE DESIGNER/ARCHITECT OR ENGINEER.





REVISION

INTERIOR ELEVATION

INTO PART OF A NEW 3-CAR GARAGE WITH AN ADDITIONAL 24 SQ. FT

SCOPE OF WORK

SCOPE OF WORK CONSIST OF :

1/1ST FLOOR:

ADDITION OF A SLAB-ON-GRADE (S.O.G) AT THE LEFT SIDE OF THE BUILDING ADDITION OF TRELLIS/PERGOLA AT REAR SIDE OF THE HOUSE

REMOVAL OF A WALL IN THE DINING ROOM

REPLACEMENT OF A WINDOW IN THE KITCHEN

CONVERSION OF THE EXISTING LAUNDRY ROOM

REPLACEMENT OF A DOOR IN THE KITCHEN

REMODELING OF THE MASTER BEDROOM, MASTER BATH, AND WALK-IN CLOSET CONVERSION OF THE EXISTING WALK-IN CLOSET INTO A LAUNDRY ROOM ADDITION OF 195 SQ. FT.

PROJECT DATA

RYAN & CAROLE CLARK 5851 OHIO ST. YORBA LINDA, CA 92886

5851 OHIO ST. YORBA LINDA, CA 92886 LEGAL DESCRIPTION

LOT NO.: 4 **TRACT NO.: 3230** APN: 343-421-19 ZONE: RE

BUILDING/ZONE	RE
OCCUPANCY TYPE	RESIDENTIAL
CONSTRUCTION TYPE	TYPE V-B
ADDITIONAL SQ.FT.	219 SQ.FT
BUILDING AREA(APPROX.)	3,200 SQ.FT.
NUMBER OF FLOORS	(2) STORY
FIRE SPRINKLER	NO

RECEIVED

03/03/2025

PLANNING DIVISION CITY OF YORBA LINDA

ABBREVIATIONS

BLOCKING

BOTTOM

CABINET

CARPET

CEMENT

CERAMIC

CEILING

CLEAN OUT

CONCRETE

CONNECTION

CONTINUOUS

CONSTRUCTION

CONTROL PANEL

COUNTERSUNK

COLD WATER

DEMOLITIONT

DOUGLAS FIR

DOUBLE HUNG

DIAMFTER

DIMENSION

DISPENSER

ELECTRICAL

ELEVATION

ENCLOSURE

EXPANSION

EXPANSION JOINT

FIRE HOSE CABINET

FIRE EXTINGUISHER CABINET

FLOOR DRAIN

EXTERIOR

FUEL GAS

FINISH

FLOOR

FLOORING

FOOTING

FIXED GLASS

FLOOR SINK

FLUORESCENT

FACE OF STUD

FLOOR JOIST

GALVANIZED

GAUGE

GRADE

FINISHED FLOOR

FACE OF FINISH

GALVANIZED IRON

GYPSUM BOARD

HOSE BIBB

HOLLOW CORE

GARBAGE DISPOSAL

FACE OF CONCRETE

EXHAUST

FXISTING

FACH

CENTER

DOUBLE

DETAIL

CERAMIC TILE

COLUMN

CLEAR

CAST IRON

CFILING JOIST

CENTER LINE

CATCH BASIN

BOUNDARY NAILING

CABLE TELEVISION

BEAM

ANCHOR BOLT ASPHALT CONCRET ACOUST ACOUSTICAL ADJACENT

ABOVE FINISH FLOOR ALTERNATE INSUL ALUMINUM APPROXIMATE ARCHITECTURAL BOARD BFTWFFN BUILDING

LGTH LKR MIN. MAS MECH

HORIZ

MECHANICA MEMBRANE MEMB MET METAL MANHOLF MISC MICELLANEOUS MANSONRY OPENING MOISTURE RESISTANT MFGR MANUFACTURER

HFADER

HEATER

HOT WATER

HORIZONTAL

INSULATION

IMPAC INSULATION CLASS

INTERIOR

INVERT

JOIST

JOINT

KITCHEN

LAVATORY

LENGTH

LOCKER

MINIMUM

MASONRY

MAXIMUM

NOT IN CONTRACT

NUMBER

NOMINAL

OBSCURE

PLASTER

PLYWOOD

RADIOUS

ROOM

ROOF DRAIN

ROUGH OPENING

SUPPLIED BY OWNER

REFRIGERATOR

REQUIRED

SOLID CORE

SECTION

ON CENTER

PROPERTY LINE

NOT TO SCALE

LAMINATE(D)

CONCRETE MASONRY UNIT NOM N.T.S. OBSC. PLAS.

> PLYWD. RAD R.O.

REF. REQ'D S.B.0 SECT

SHEET SHTG SHEATHING SIM SIMILAR SIMP SIMPSON SPEC SPECIFICATION SQUARE STAINLESS STEEL STD

WT

W/O

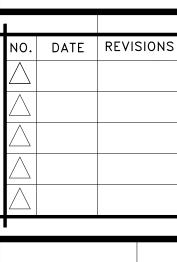
STANDARD STL STEEL STOR STORAGE STRUCT STRUCTURAL STAGG'D STAGGERED SYM SYMMETRICAL TOP & BOTTOM TELEPHONE TEMP TEMPERED

TOP OF CURB TONGUE & GROOVE THICK THROUGH TOP OF PLATE TOP OF WALL TYP TYPICAL UNLESS NOTED OTHERWISE

UNO VCT VINYL COMPOSITION TILE VERT VERTICAL VTR VENT THROUGH ROOF WATER CLOSET WD WWF

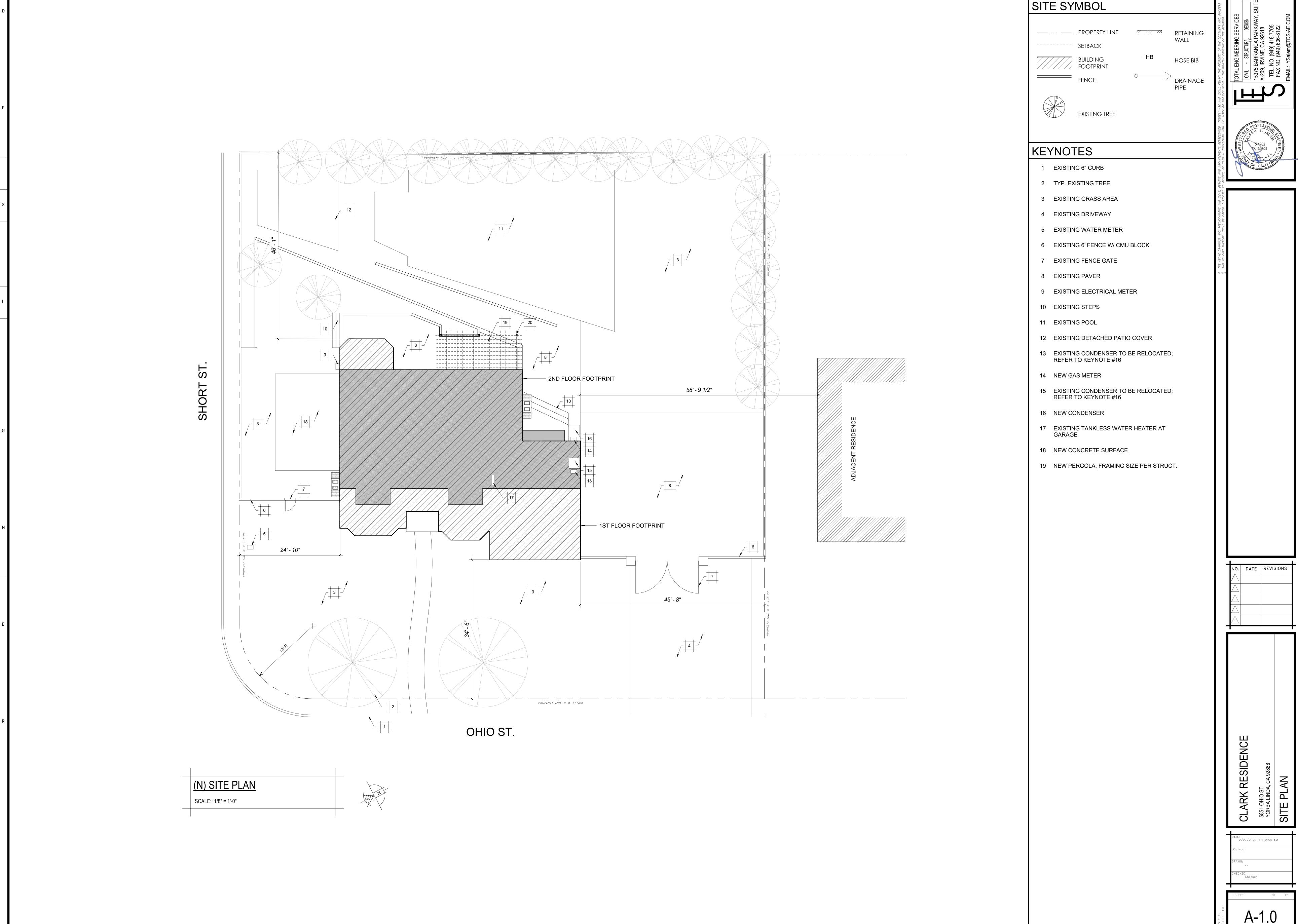
WATER HEATER WELDED WIRE FABRIC WALK-IN CLOSE WATER PROOF WEIGHT WITHOUT



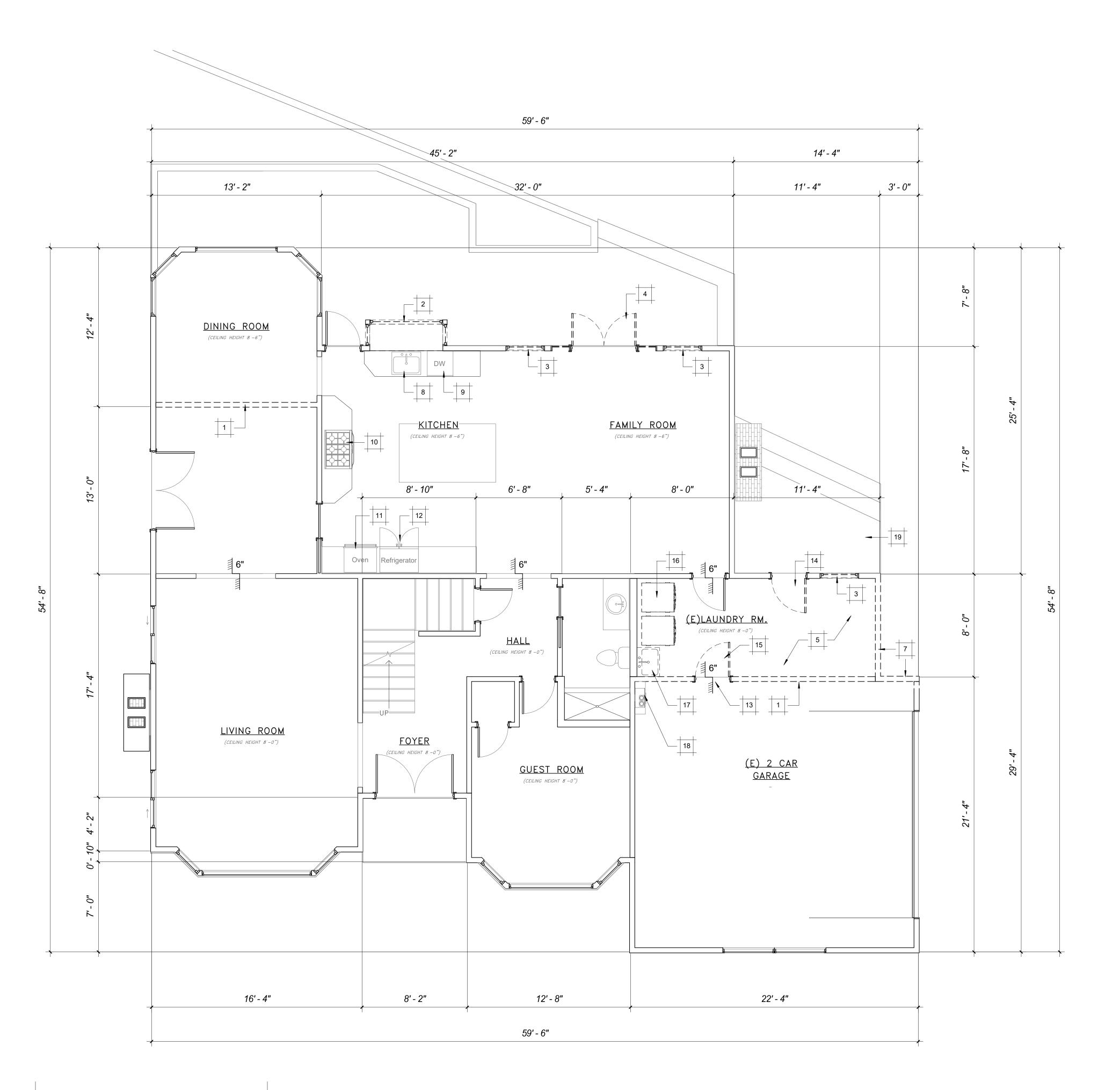


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****** WRITTEN DIMENSIONS ON THESE DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY, AND BE RESPONSIBLE FOR ALL DIMENSIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THE DRAWINGS. ******



(E) 1ST FLOOR PLAN

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

DEMOLITION NOTES

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- 1. CONSTRUCTION SHOULD COMPLY LATEST CALIFORNIA BUILDING
- 2. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING HIM/HER SELF WITH BOTH THE DESIGN DOCUMENTS AND THE EXISTING BUILDING PRIOR TO CONSTRUCTION. SHOULD ANY CONFLICT ARISE BETWEEN THE DRAWINGS AND FIELD CONDITIONS, THE CONTRACTOR SHALL
- DRAWINGS AND FIELD CONDITIONS, THE CONTRACTOR SHAL IMMEDIATELY NOTIFY THE ARCHITECT.

 3. DEMOLITION AS NOTED ON PLANS. CONTRACTOR TO COORDINATE TO ACCOMMODATE CALIFORNIA REGULATIONS.
- PROJECT TO BE LEFT BROOM CLEAN DAILY.

 4. THE CONTRACTOR SHALL INVESTIGATE THE SITE AND AVAILABLE DOCUMENTATION TO ASSURE HIM/HER SELF OF THE CONDITION OF THE WORK TO DEMOLISHED AND SHALL TAKE ALL PRECAUTIONS TO ENSURE SAFETY OF PERSONS AND PROPERTY.
- 5. EXISTING FIRE AND SMOKE DETECTION SYSTEMS TO REMAIN ON OPERATION DURING DEMOLITIONS AND CONSTRUCTION.
 5. PROVIDE ADEQUATE SHORING AD BRACING TO CARRY LOADS
- AND STRESSES WITHSTOOD BY ITEMS REMOVED, ARE RESPONSIBLE FOR ADQUACY OF SUCH CONSTRUCTION AS WELL AS FOR ANY DAMAGE TO EXISTING BUILDINGS.

 PROCEED WITH DEMOLITIONS SYSTEMATICALLY, COORDINATE DEMOLITION WITH CONSTRUCTION TO REMAIN. DEMOLISH IN SMALL SECTIONS AND AVOID OVERLAPPING STRUCTURE AND
- UTILITIES.

 SELECTIVE DEMOLISH ITEMS TO BE REMOVED AND LEGALLY REMOVE FROM SITE. USE DEMOLITIONS METHODS WITH LIMITATION OF GOVERNING REGULATIONS. MATERIALS NOT INDICATED FOR REUSE OR RESERVED FOR OWNER, AS WELL AS RUBLE AND DEBRIS RESULTING FROM THESE OPERATIONS, BECOME THE PROPERTY OF THE CONTRACTOR. LEGALLY REMOVE FREQUENTLY FROM SITE.
- 9. PROVIDE TEMPORARY ENCLOSURE AT EXTERIOR WALLS AND FLOOR NEATLY CONSTRUCTED TO FROM THIGH FIT BEFORE EXPOSING INTERIOR OF EXISTING BUILDING. TEMPORARY ENCLOSURES SHALL BE CONSTRUCTED OF FIRE RESISTANT, WEATHERPROOF CONSTRUCTION ADEQUATELY SEALED TO PREVENT PASSAGE OF HEAT AND ELEMENTS.
- 10. EXERCISE CARE IN REMOVING SALAVAGEABLE ITEMS
 SCHEDULE FOR REUSE. STORE SUCH ITEMS IN AN AREA
 APPROVE BY THE OWNER, AND PROTECTED FROM DAMAGE
 DURING SUCH STORAGE. CLEAN ITEMS AS NECESSARY FOR
 REUSE PRIOR TO STORAGE.
- REMOVE ALL DOORS AND WINDOWS AS SHOWN IN DEMOLISHING PLAN. SEE A-2.0 FOR PROPOSED WORK.
 EXISTING INTERIOR WOOD FLOORING TO BE REMOVED AS WELL AS ALL WALL FINISHES. PREP WALL AND FLOOR FOR NEW FINISHES, U.O.N.

NEW CEILING FINISH, U.O.N.

13. EXISTING FINISH CEILING TO BE REMOVED AND PREP FOR

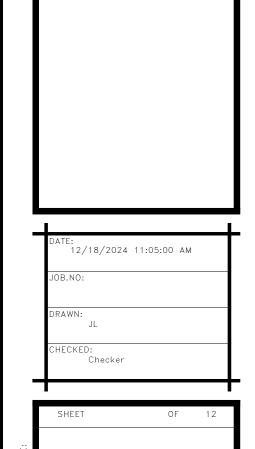
LEGEND	
	EXISTING WALL TO REMAIN
	EXISTING WALL TO DEMO
	NEW WALL

KEYNOTES

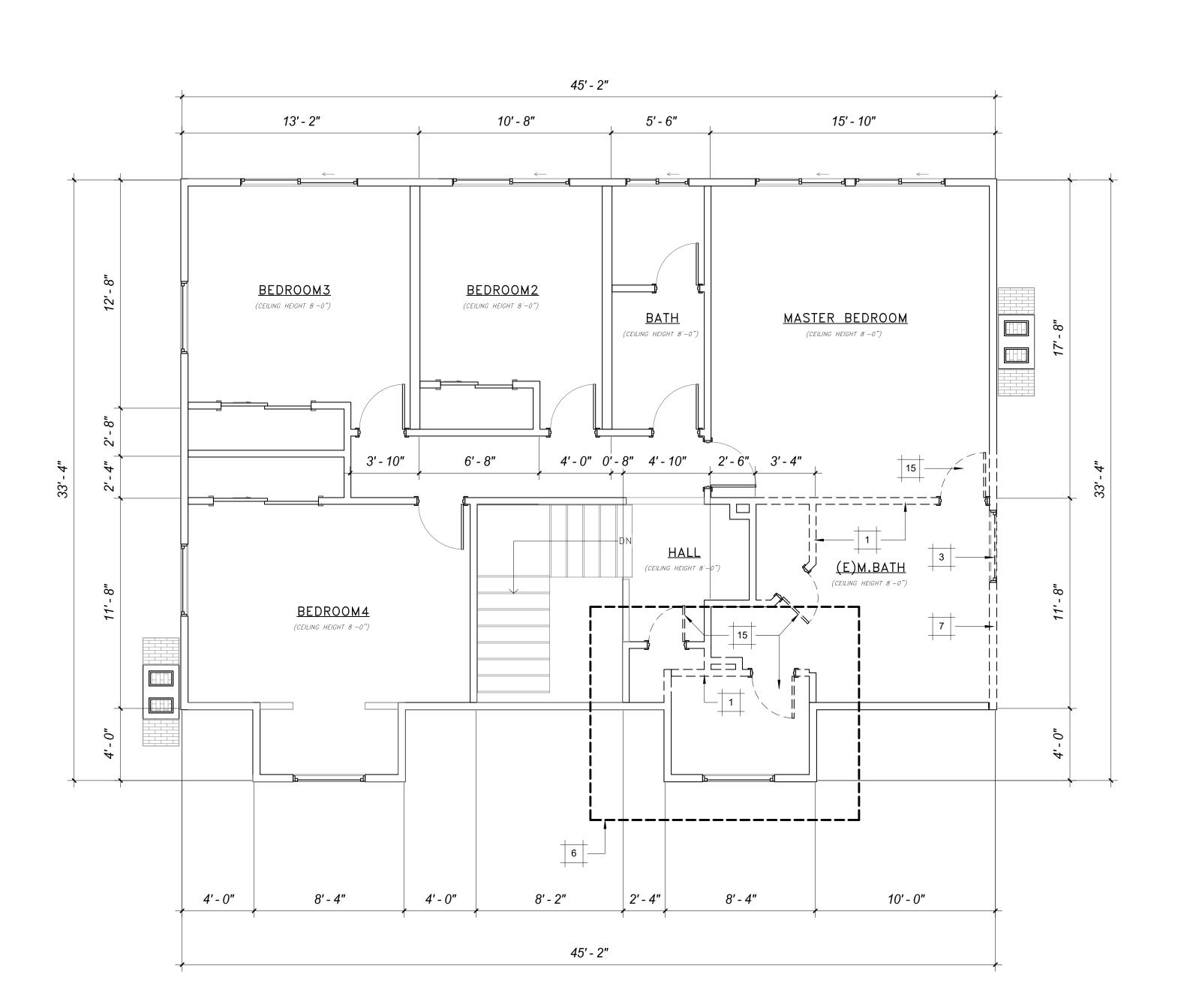
- 1 DEMO EXISTING INTERIOR WALL
- 2 DEMO EXISTING BAY WINDOW & REPLACE WITH SLIDER
- 3 DEMO EXISTING WINDOW
- 4 DEMO EXISTING FRENCH DOOR
- 5 DEMO EXISTING LAUNDRY ROOM & CONVERT THE AREA INTO THREE CAR GARAGE
- 6 CONVERT THE AREA INTO (N)LAUNDRY ROOM
- 7 DEMO EXISTING EXTERIOR WALL
- 8 EXISTING SINK TO REMAIN
- 9 EXISTING DISHWASHER TO REMAIN
- 10 EXISTING RANGE & KITCHEN HOOD TO REMAIN
- 11 EXISTING OVEN TO REMAIN
- 12 EXISTING REFRIGERATOR TO REMAIN
- 13 DEMO EXISTING FLOOR @ LAUNDRY ROOM TO LEVEL W/ (E) 2 CAR GARAGE
- 14 DEMO EXISTING EXTERIOR DOOR
- 15 DEMO EXISTING INTERIOR DOOR
- 16 DEMO EXISTING WASHER & DRYER
- 17 DEMO EXISTING SINK
- 18 EXISTING TANKLESS WATER HEATER TO REMAIN
- 19 EXISTING LANDING







10. DATE REVISIONS



(E)2ND FLOOR PLAN

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

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 PROCEED WITH DEMOLITIONS SYSTEMATICALLY, COORDINATE DEMOLITION WITH CONSTRUCTION TO REMAIN. DEMOLISH IN SMALL SECTIONS AND AVOID OVERLAPPING STRUCTURE AND UTILITIES.
- SELECTIVE DEMOLISH ITEMS TO BE REMOVED AND LEGALLY REMOVE FROM SITE. USE DEMOLITIONS METHODS WITH LIMITATION OF GOVERNING REGULATIONS. MATERIALS NOT INDICATED FOR REUSE OR RESERVED FOR OWNER, AS WELL AS RUBLE AND DEBRIS RESULTING FROM THESE OPERATIONS, BECOME THE PROPERTY OF THE CONTRACTOR. LEGALLY REMOVE FREQUENTLY FROM SITE.
- PROVIDE TEMPORARY ENCLOSURE AT EXTERIOR WALLS AND FLOOR NEATLY CONSTRUCTED TO FROM THIGH FIT BEFORE EXPOSING INTERIOR OF EXISTING BUILDING. TEMPORARY ENCLOSURES SHALL BE CONSTRUCTED OF FIRE RESISTANT, WEATHERPROOF CONSTRUCTION ADEQUATELY SEALED TO PREVENT PASSAGE OF HEAT AND ELEMENTS.
- 10. EXERCISE CARE IN REMOVING SALAVAGEABLE ITEMS
 SCHEDULE FOR REUSE. STORE SUCH ITEMS IN AN AREA
 APPROVE BY THE OWNER, AND PROTECTED FROM DAMAGE
 DURING SUCH STORAGE. CLEAN ITEMS AS NECESSARY FOR
 REUSE PRIOR TO STORAGE.

 11. REMOVE ALL DOORS AND WINDOWS AS SHOWN IN
- DEMOLISHING PLAN. SEE A—2.0 FOR PROPOSED WORK.

 12. EXISTING INTERIOR WOOD FLOORING TO BE REMOVED AS

 WELL AS ALL WALL FINISHES. PREP WALL AND FLOOR FOR

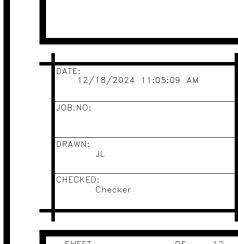
 NEW FINISHES. II O.N.
- NEW FINISHES, U.O.N.

 13. EXISTING FINISH CEILING TO BE REMOVED AND PREP FOR NEW CEILING FINISH, U.O.N.

EXISTING WALL TO REMAIN EXISTING WALL TO DEMO NEW WALL

KEYNOTES

- 1 DEMO EXISTING INTERIOR WALL
- 2 DEMO EXISTING BAY WINDOW & REPLACE WITH SLIDER
- 3 DEMO EXISTING WINDOW
- 4 DEMO EXISTING FRENCH DOOR
- 5 DEMO EXISTING LAUNDRY ROOM & CONVERT THE AREA INTO THREE CAR GARAGE
- 6 CONVERT THE AREA INTO (N)LAUNDRY ROOM
- 7 DEMO EXISTING EXTERIOR WALL
- 8 EXISTING SINK TO REMAIN
- 9 EXISTING DISHWASHER TO REMAIN
- 10 EXISTING RANGE & KITCHEN HOOD TO REMAIN
- 11 EXISTING OVEN TO REMAIN
- 12 EXISTING REFRIGERATOR TO REMAIN
- 13 DEMO EXISTING FLOOR @ LAUNDRY ROOM TO LEVEL W/ (E) 2 CAR GARAGE
- 14 DEMO EXISTING EXTERIOR DOOR
- 15 DEMO EXISTING INTERIOR DOOR
- 16 DEMO EXISTING WASHER & DRYER
- 17 DEMO EXISTING SINK
- 18 EXISTING TANKLESS WATER HEATER TO REMAIN
- 19 EXISTING LANDING



NO. DATE REVISIONS

A-2.1

(N) 1ST FLOOR PLAN

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

GENERAL NOTES

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- ALL INTERIOR DOORS SHALL BE HOLLOW CORE WITH 1 " THICK. U.N.O. AT 1. 8 DOUBLE INTERIOR DOOR CONDITIONS PROVIDE DEADBOLT AT TOP OF INACTIVE DOOR.
- 2. ALL EXTERIOR FRENCH DOORS SHALL BE SOLID CORE WITH 1 " THICK. AT 2. DOUBLE FRENCH DOOR PROVIDE DEADBOLT AT TOP AND BOTTOM OF INACTIVE DOOR.
- 3. ALL GARAGE DOORS SHALL BE SOLID CORE WITH 1 3/8" THICK OR 20 MINUTE RATED DOOR AT OPENING DWELLING. ALL ENTRY DOORS SHALL BE SOLID CORE WITH 1 3/4" THICK. AT DOUBLE ENTRY 4. 4 DOOR PROVIDE DEADBOLT
- AT TOP & BOTTOM OF INACTIVE DOOR 5. ALL DOORS ACCESS FROM THE GARAGE TO THE HOUSE SHALL BE 5. 3 ONE—HOUR RATED, SOLID CORE WITH 1 3/8" THICK AND SHALL BE SELF 8 CLOSING & TIGHT
- ESCAPE OR RESCUE WINDOW SHALL HAVE A MIN. NET CLEAR OPENABLE 6. AREA OF 5.7 SQ. FT. TO BE VERIFIED WITH WINDOW MANUFACTURER. THE MIN. NET CLEAR OPENABLE DIMENSIONS SHALL BE AS FOLLOWS: 24 INCHES MIN. FOR HEIGHT 20 INCHES MIN. FOR WIDTH WITH A WINDOW FINISHED SILL HEIGHT NOT MORE THAN 44 INCHES ABOVE FIN. FLOOR PER C.B.C. SEC. 310.4

ADDITONAL NOTES:

a. CONTRACTOR SHALL POST THE INSTALLATION CERTIFICATE (CF-6R) FORM AND INSULATION CERTIFICATE (IC-1) FORM IN A CONSPICUOUS LOCATION OR KEPT WITH PLANS AND MADE AVAILABLE TO THE INSPECTOR. b. CONTRACTOR SHALL PROVIDE COPIES OF THE CF-1R,

MF-1R, CF-6F AND IC-1 FORMS TO THE BUILDING OWNER.

EXISTING CONDITIONS:

ALL DIMENSIONS & INFORMATION SHOWN ON THE PLANS RELATIVE TO EXISTING CONDITIONS ARE GIVEN AS THE BEST PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY

PLUMPING NOTES:

1. ALL SHOWERS AND TUB-SHOWERS SHALL HAVE A PRESSURE BALANCE, THERMOSTATIC MIXING VALVE, OR A COMBINATION PRESSURE BALANCE/THERMOSTATIC MIXING TYPE VALVE

2. ALL NEW, REPLACEMENT AN EXISTING WATER HEATERS SHALL BE STRAPPED TO THE WALL IN TWO PLACES. ONE IN THE UPPER 1/3 OF THE TANK AND ONE IN THE LOWER 1/3 OF THE TANK. THE LOWER POINT SHALL BE A MINIMUM OF 4-IN. ABOVE THE CONTROLS.

LEGEND

EXISTING WALL TO REMAIN ______ EXISTING WALL TO DEMO

NEW WALL

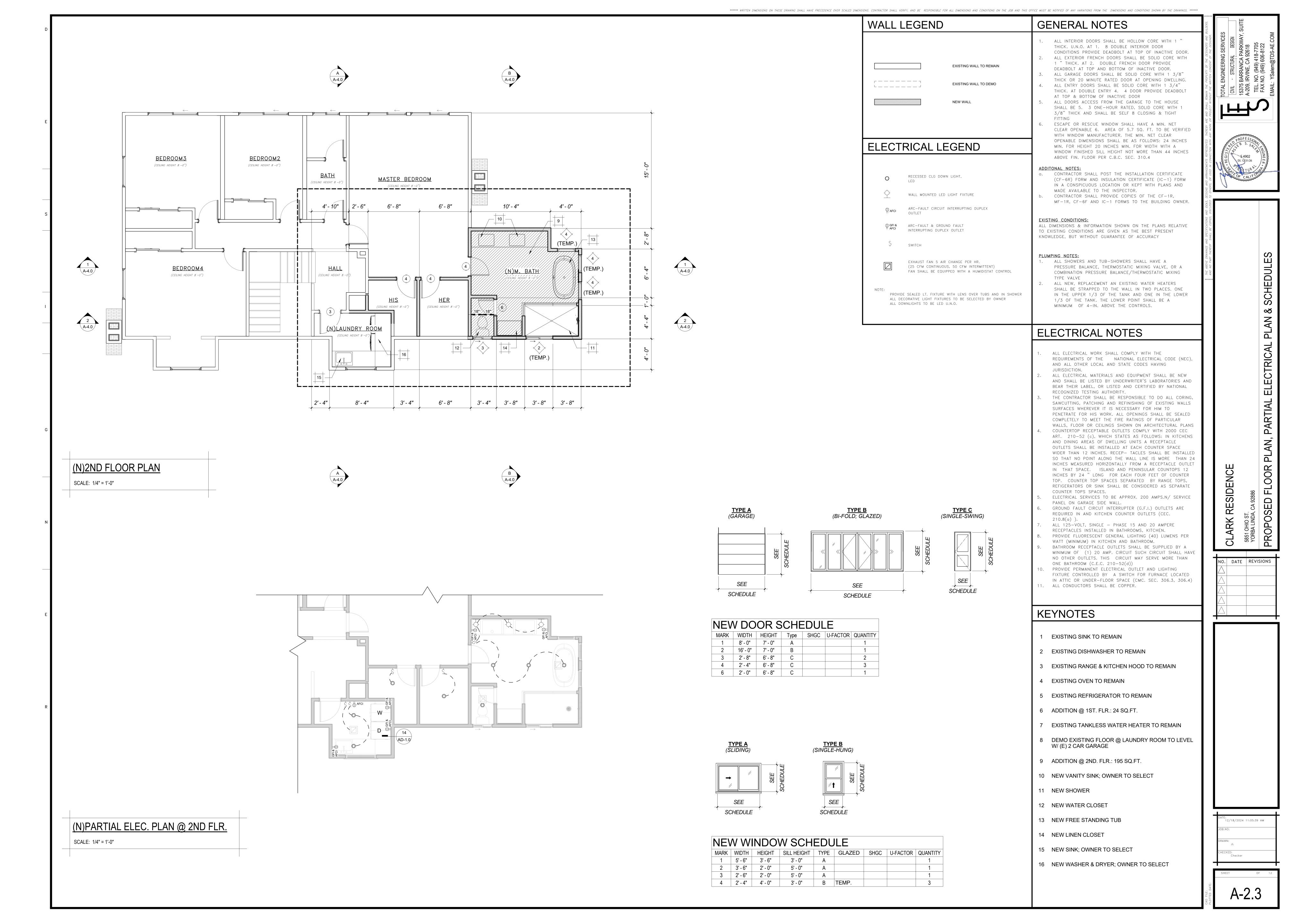
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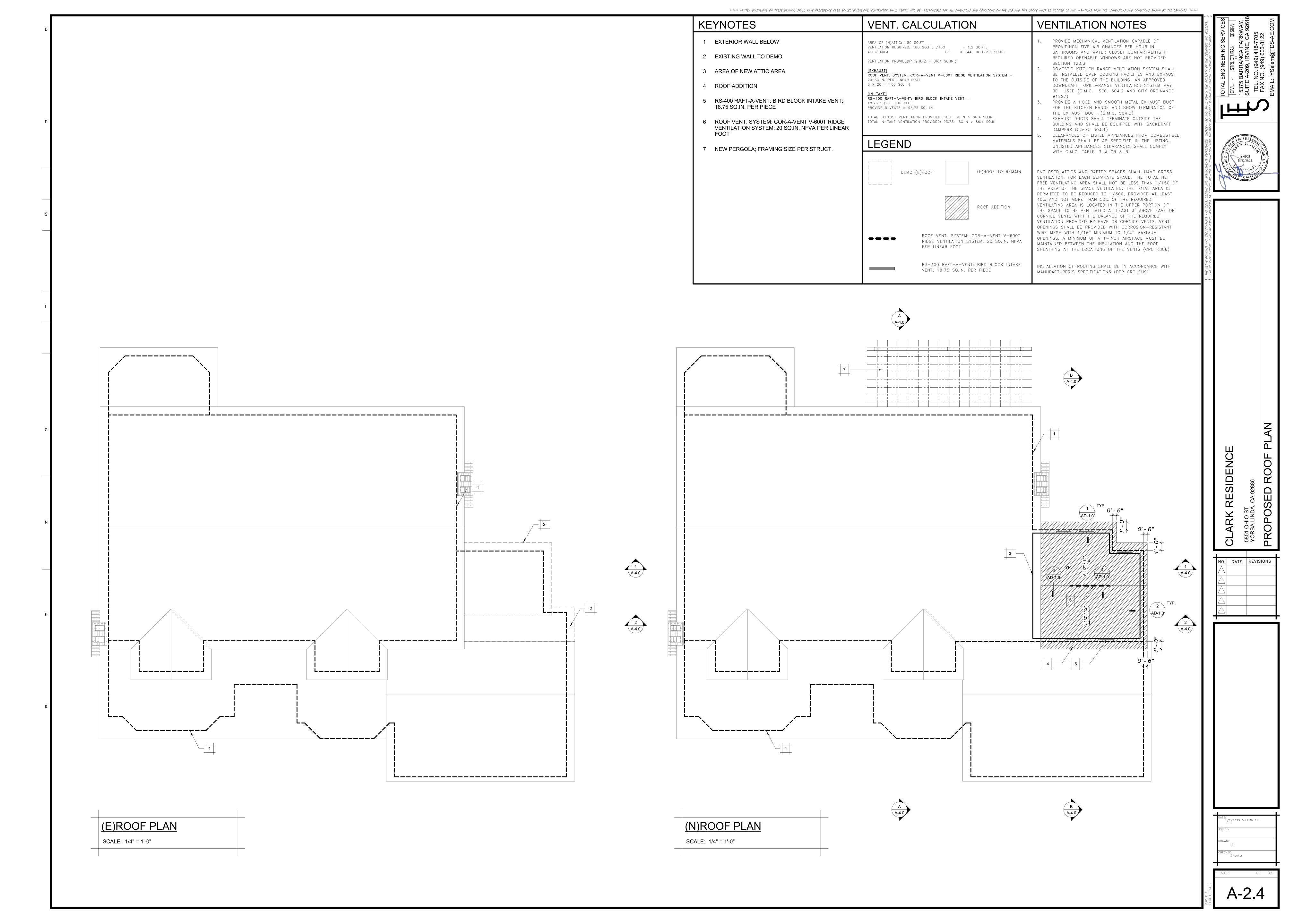
- 1 EXISTING SINK TO REMAIN
- 2 EXISTING DISHWASHER TO REMAIN
- 3 EXISTING RANGE & KITCHEN HOOD TO REMAIN
- 4 EXISTING OVEN TO REMAIN
- 5 EXISTING REFRIGERATOR TO REMAIN
- 6 ADDITION @ 1ST. FLR.: 24 SQ.FT.
- 7 EXISTING TANKLESS WATER HEATER TO REMAIN
- 8 DEMO EXISTING FLOOR @ LAUNDRY ROOM TO LEVEL W/ (E) 2 CAR GARAGE
- 9 ADDITION @ 2ND. FLR.: 195 SQ.FT.
- 10 NEW VANITY SINK; OWNER TO SELECT
- 11 NEW SHOWER
- 12 NEW WATER CLOSET
- 13 NEW FREE STANDING TUB
- 14 NEW LINEN CLOSET
- 15 NEW SINK; OWNER TO SELECT
- 16 NEW WASHER & DRYER; OWNER TO SELECT
- 17 NEW PERGOLA; FRAMING SIZE PER STRUCT.
- 18 NEW PERGOLA ABOVE; FRAMING SIZE PER STRUCT.
- 19 NEW POST SEATING ON TOP OF THE EXISTING **GARDEN WALL**

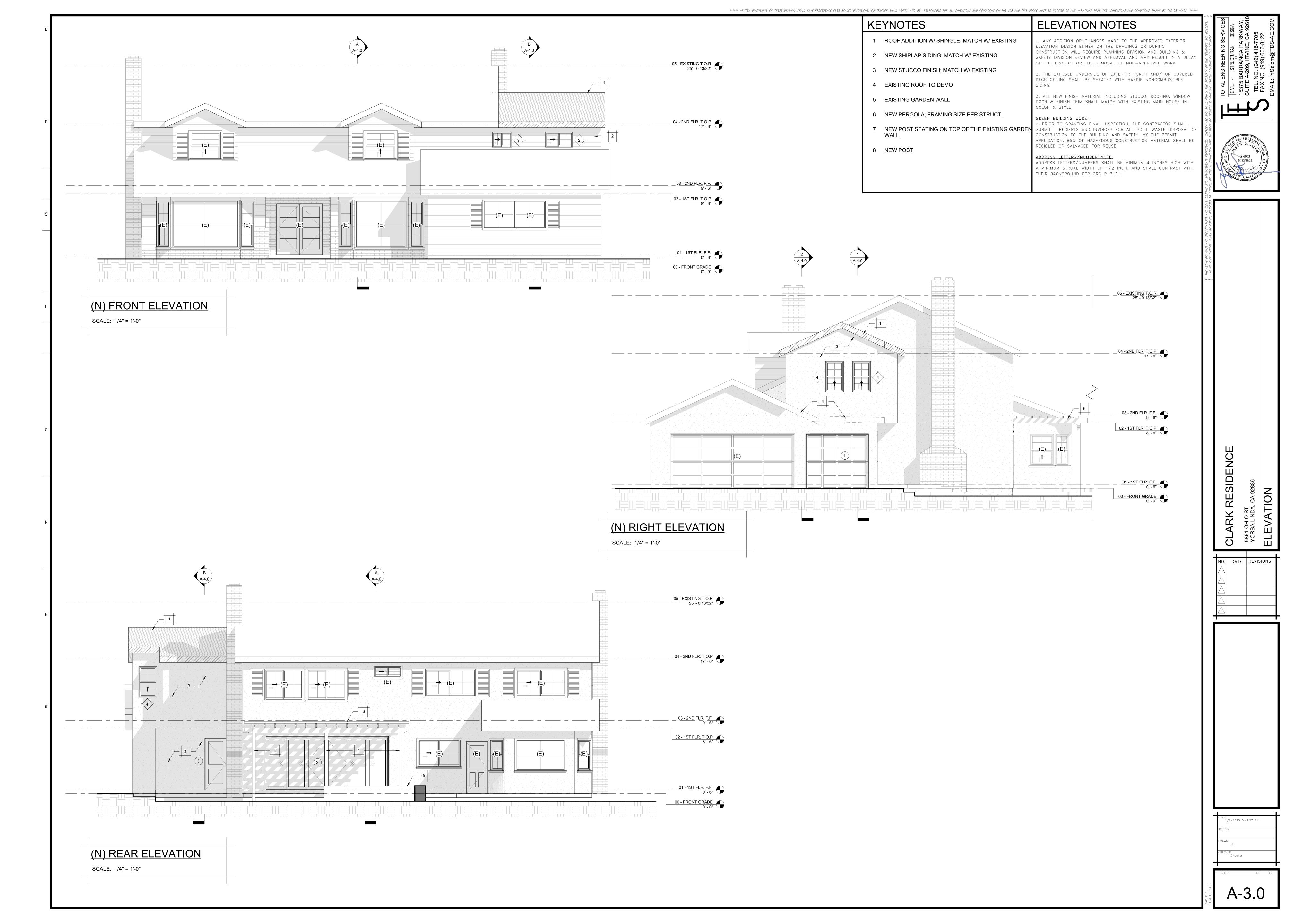
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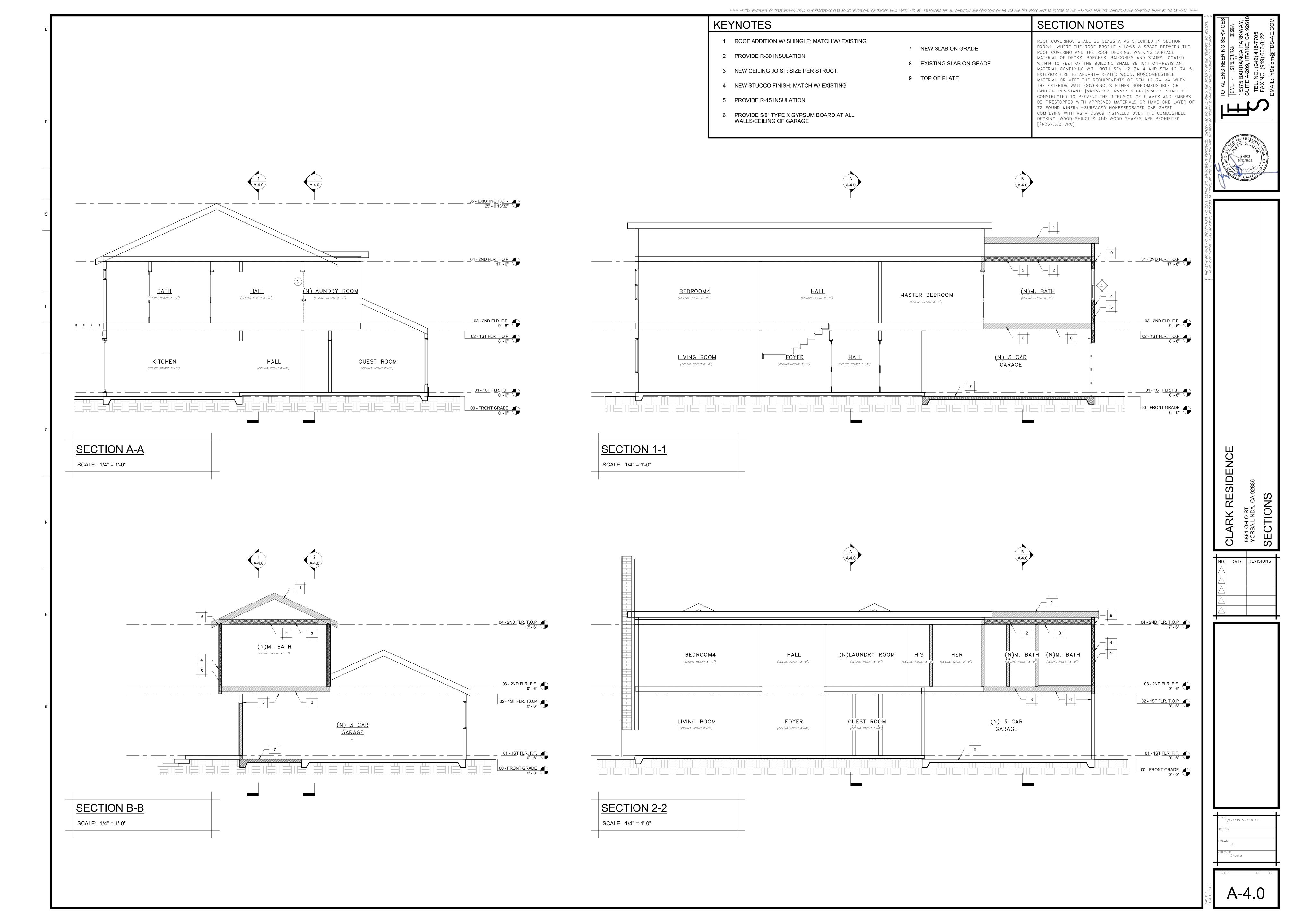
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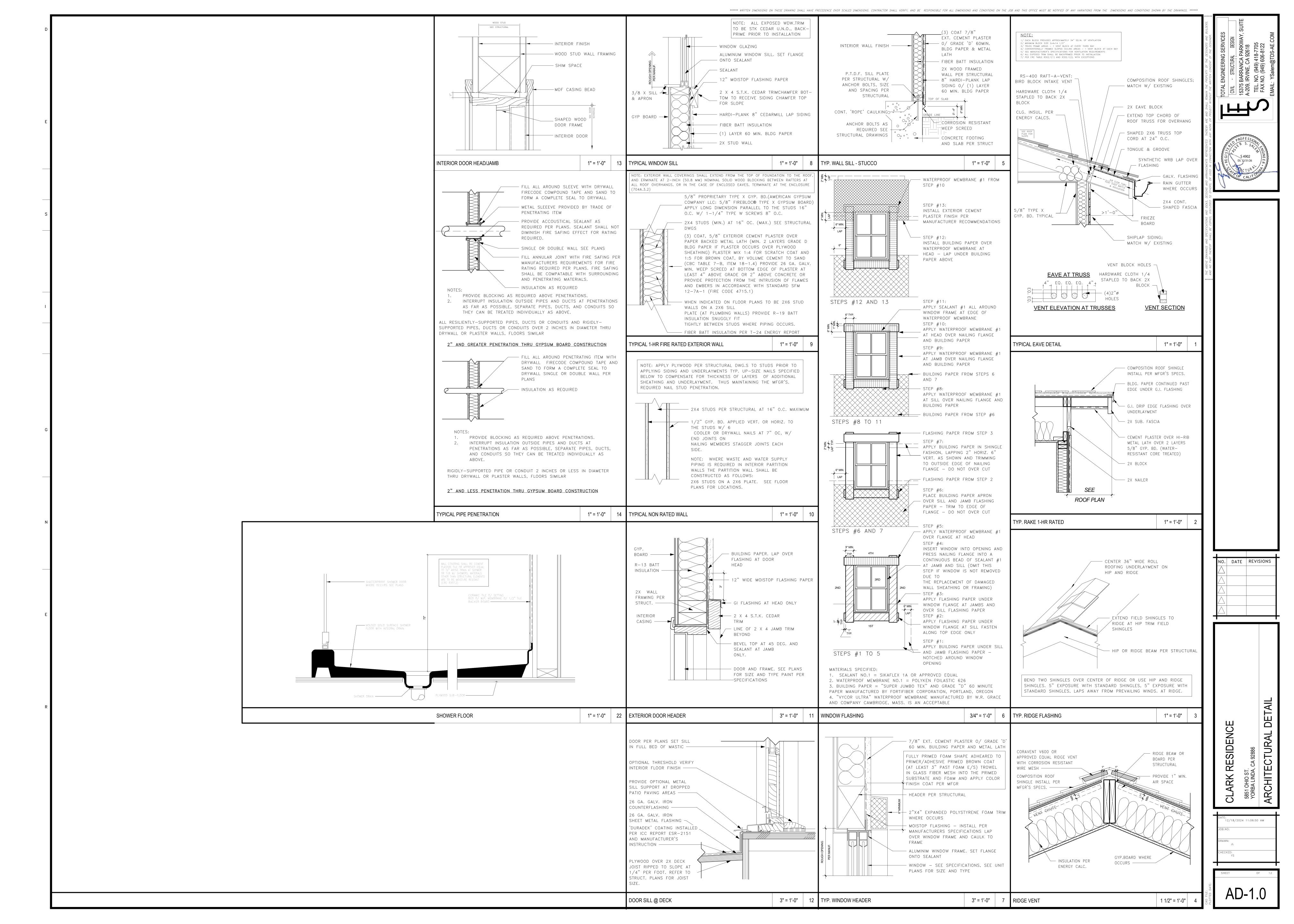
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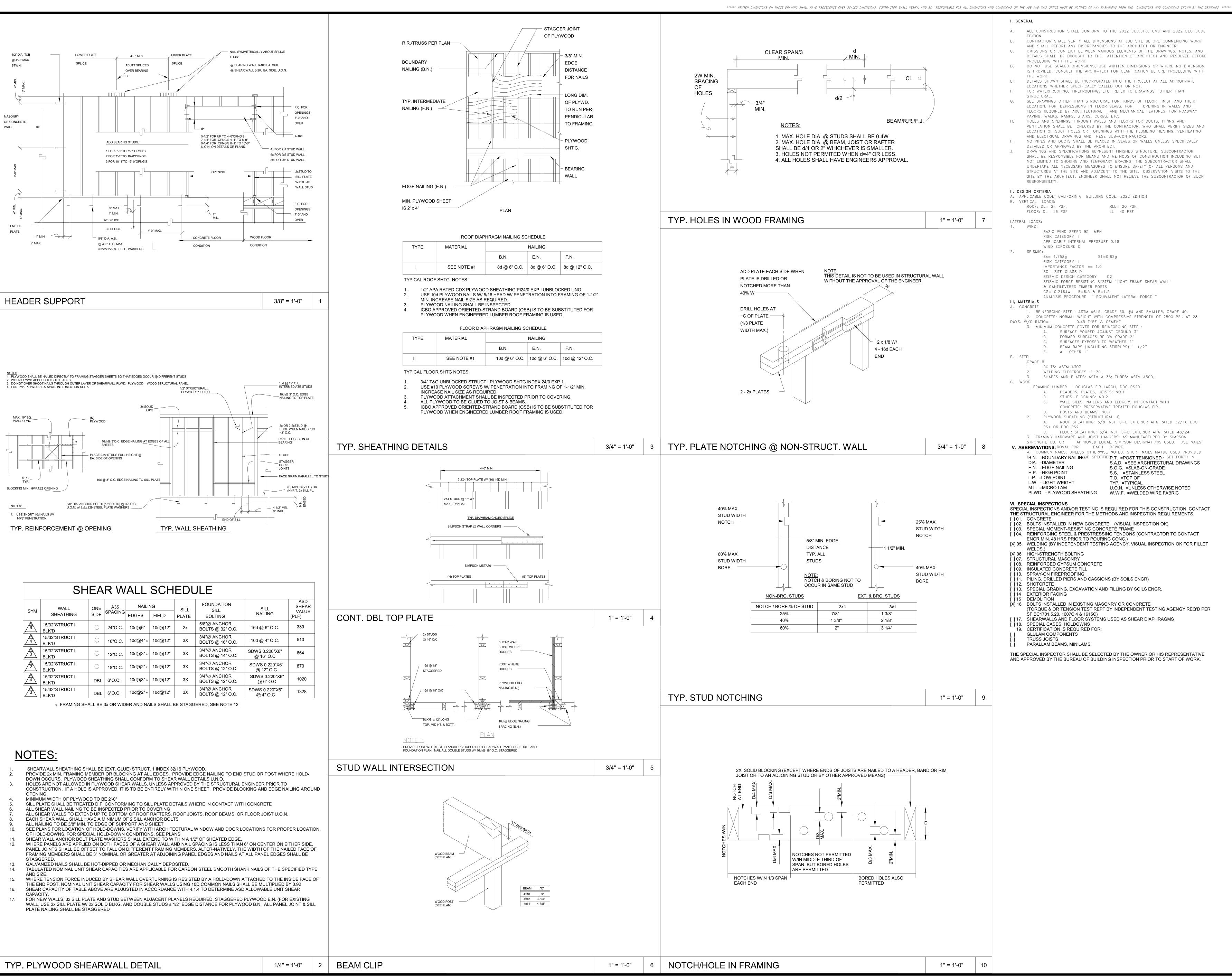












A. ALL CONSTRUCTION SHALL CONFORM TO THE 2022 CBC,CPC, CMC AND 2022 CEC CODE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT JOB SITE BEFORE COMMENCING WORK AND SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT OR ENGINEER.

OMISSIONS OR CONFLICT BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES, AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT AND RESOLVED BEFORE

DO NOT USE SCALED DIMENSIONS; USE WRITTEN DIMENSIONS OR WHERE NO DIMENSION IS PROVIDED, CONSULT THE ARCHI-TECT FOR CLARIFICATION BEFORE PROCEEDING WITH

DETAILS SHOWN SHALL BE INCORPORATED INTO THE PROJECT AT ALL APPROPRIATE

LOCATIONS WHETHER SPECIFICALLY CALLED OUT OR NOT. FOR WATERPROOFING, FIREPROOFING, ETC. REFER TO DRAWINGS OTHER THAN SEE DRAWINGS OTHER THAN STRUCTURAL FOR: KINDS OF FLOOR FINISH AND THEIR

PAVING, WALKS, RAMPS, STAIRS, CURBS, ETC. HOLES AND OPENINGS THROUGH WALLS AND FLOORS FOR DUCTS, PIPING AND VENTILATION SHALL BE CHECKED BY THE CONTRACTOR, WHO SHALL VERIFY SIZES AND LOCATION OF SUCH HOLES OR OPENINGS WITH THE PLUMBING HEATING, VENTILATING AND ELECTRICAL DRAWINGS AND THESE SUB-CONTRACTORS.

DETAILED OR APPROVED BY THE ARCHITECT. DRAWINGS AND SPECIFICATIONS REPRESENT FINISHED STRUCTURE. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION INCLUDING BUT NOT LIMITED TO SHORING AND TEMPORARY BRACING. THE SUBCONTRACTOR SHALL UNDERTAKE ALL NECESSARY MEASURES TO ENSURE SAFETY OF ALL PERSONS AND STRUCTURES AT THE SITE AND ADJACENT TO THE SITE. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT. ENGINEER SHALL NOT RELIEVE THE SUBCONTRACTOR OF SUCH

A. APPLICABLE CODE: CALIFORINIA BUILDING CODE, 2022 EDITION RLL= 20 PSF. LL= 40 PSF

BASIC WIND SPEED 95 MPH APPLICABLE INTERNAL PRESSURE 0.18 S1 = 0.62a

> SEISMIC DESIGN CATEGORY D2 SEISMIC FORCE RESISTING SYSTEM "LIGHT FRAME SHEAR WALL" & CANTILEVERED TIMBER POSTS CS= 0.2164w R=6.5 & R=1.5 ANALYSIS PROCEDURE " EQUIVALENT LATERAL FORCE "

2. CONCRETE: NORMAL WEIGHT WITH COMPRESSIVE STRENGTH OF 2500 PSI. AT 28 DAYS. W/C RATIO= 0.45 TYPE V. CEMENT 3. MINIMUM CONCRETE COVER FOR REINFORCING STEEL: A. SURFACE POURED AGAINST GROUND 3"

> SURFACES EXPOSED TO WEATHER 2" BEAM BARS (INCLUDING STIRRUPS) 1-1/2"

WELDING ELECTRODES: E−70 SHAPES AND PLATES: ASTM A 36; TUBES: ASTM A500,

1. FRAMING LUMBER - DOUGLAS FIR LARCH, DOC PS20 A. HEADERS, PLATES, JOISTS: NO.1

C. WALL SILLS, NAILERS AND LEDGERS IN CONTACT WITH CONCRETE: PRESERVATIVE TREATED DOUGLAS FIR.

2. PLYWOOD SHEATHING (STRUCTURAL II) A. ROOF SHEATHING: 5/8 INCH C-D EXTERIOR APA RATED 32/16 DOC B. FLOOR SHEATHING: 3/4 INCH C-D EXTERIOR APA RATED 48/24 3. FRAMING HARDWARE AND JOIST HANGERS: AS MANUFACTURED BY SIMPSON

STRONGTIE CO. OR APPROVED EQUAL. SIMPSON DESIGNATIONS USED. USE NAILS V. ABBREVIATIONS: ROVAL FOR EACH DEVICE. 4. COMMON NAILS, UNLESS OTHERWISE NOTED. SHORT NAILS MAYBE USED PROVIDED TB.N. =BOUNDARY NAILING)E SPECIFIECP.T. =POST TENSIONED; SET FORTH IN S.A.D. =SEE ARCHITECTURAL DRAWINGS

S.O.G. =SLAB-ON-GRADE S.S. =STAINLESS STEEL T.O. =TOP OF TYP. =TYPICAL U.O.N. =UNLESS OTHERWISE NOTED

SPECIAL INSPECTIONS AND/OR TESTING IS REQUIRED FOR THIS CONSTRUCTION. CONTACT THE STRUCTURAL ENGINEER FOR THE METHODS AND INSPECTION REQUIREMENTS.

W.W.F. =WELDED WIRE FABRIC

02. BOLTS INSTALLED IN NEW CONCRETE (VISUAL INSPECTION OK) 103. SPECIAL MOMENT-RESISTING CONCRETE FRAME

1 04. REINFORCING STEEL & PRESTRESSING TENDONS (CONTRACTOR TO CONTACT ENGR MIN. 48 HRS PRIOR TO POURING CONC.) [X] 05. WELDING (BY INDEPENDENT TESTING AGENCY, VISUAL INSPECTION OK FOR FILLET

11. PILING, DRILLED PIERS AND CASSIONS (BY SOILS ENGR)

[X] 16 BOLTS INSTALLED IN EXISTING MASONRY OR CONCRETE (TORQUE & OR TENSION TEST REPT BY INDEPENDENT TESTING AGENGY REQ'D PER

SF BC1701.5.20, 1607C.4 & 1615C) 17. SHEARWALLS AND FLOOR SYSTEMS USED AS SHEAR DIAPHRAGMS

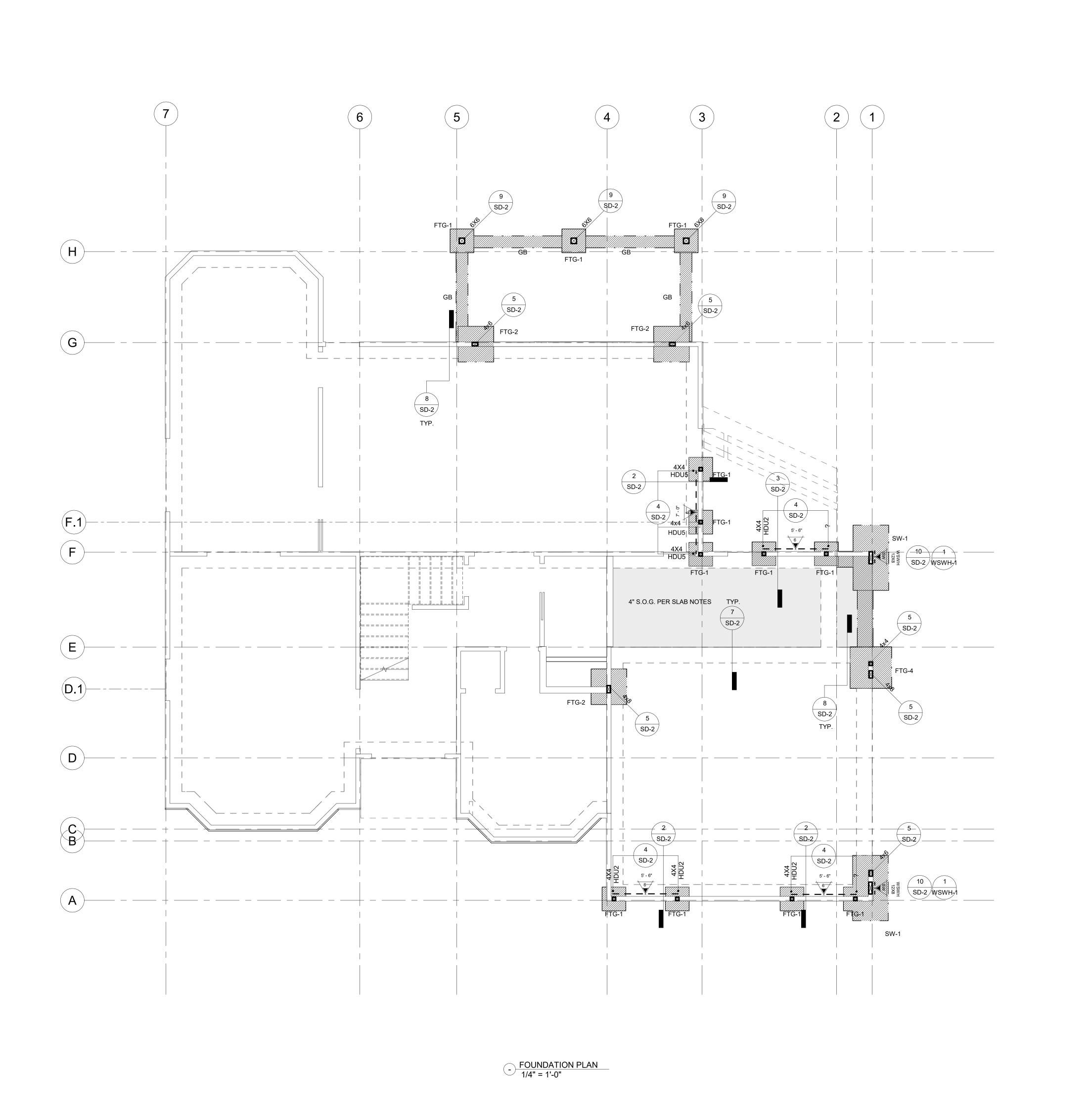
19. CERTIFICATION IS REQUIRED FOR:

THE SPECIAL INSPECTOR SHALL BE SELECTED BY THE OWNER OR HIS REPRESENTATIVE AND APPROVED BY THE BUREAU OF BUILDING INSPECTION PRIOR TO START OF WORK.

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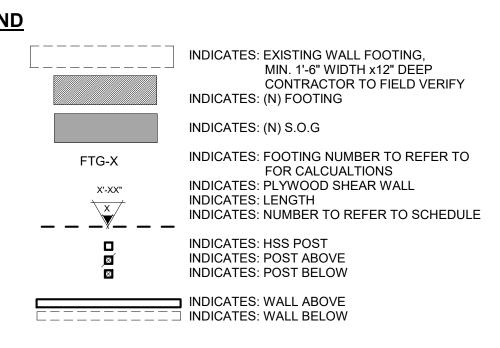
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SEE S-N FOR TYP. HDR DETAIL & SCHEDULE

SEE S-N FOR TYP. SHEARWALL DETAIL

FOUNDATION NOTES:

- ALL CONTINUOUS EXTERIOR FOOTINGS TO HAVE 5/8" DIAMETER X 10" ANCHOR BOLTS W/ 3" X 3" X .229" WASHERS FOR 2X4 STUD WALL ^ 4"X4"X.229 FOR 2X6 STUD WALL AT MIN. 6'-0" O.C., 8" EMBEDMENT UNLESS NOTED OTHERWISE ON PLANS. MINIMUM 2 ABS PER SILL PLATE PER SHEAR PANEL. NE ANCHOR BOLT @ 12" MAX. AWAY FROM EA. END OF SILL PLATE.
- 2. VERIFY LOCATION OF HOLDOWNS AND ANCHOR BOLTS WITH ROUGH FRAMING CONTRACTOR TO ASSURE PROPER AND ACCURATE INSTALLATION.

 3. ALL FOUNDATION HARDWARE, INCLUDING TYPICAL ANCHOR BOLTS, SHALL BE SECURED IN PLACE PRIOR TO FOOTING INSPECTION OR PRE-GROUT
- INSPECTION.
 4. CONCRETE SLABS TO HAVE CONTROL JOINTS AT 25 FT. (MAXIMUM) INTERVALS EA. WAY.
- TOPS OF SLABS ON GRADE TO BE MIN. 8" ABOVE FINISH GRADE.
 POWER DRIVEN PINS ARE NOT PERMITTED AT FOUNDATIONS.
- 7. SPECIAL INSPECTION IS REQUIRED FOR EPOXY DOWELS.
 8. FOOTING TRENCHES SHOULD BE MOISTENED PRIOR TO POURING CONCRETE.
 FOOTING SPOILS SHOULD NOT BE CAST OVER THE SLAB SUBGRADE WITHOUT
 BEING COMPACTED TO THE SAME DEGREE AS THE PRIMARY FILL

SLAB ON GRADE NOTES

1. THICKNESS SHALL BE AS NOTED ON PLANS. 2. REINFORCING WITH #3 BARS @ 16" O.C. CENTERED IN THE SLAB

3. CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 2,500 PSI
4. CONCRETE SLAB TO BE PLACED OVER 4"BASE OF ½" OR LARGER CLEAN AGGREGATE
W/ 2" SAND AND A MIN 15 MIL CAPILLARY BREAK VAPOR BARRIER. MEETING ASTM 1745,
STEGOWRAP OR APPROVED EQUAL

CONTRACTOR TO VERIFY WHETHER EXISTING SLAB ON GRADE IS POST TENSIONED. IF IT IS DETERMINED THAT SLAB IS POST TENSIONED THEN THE CONTRACTOR SHALL X-RAY THE SALB TO LOCATE THE EXISTING TENDONS. CARE IS TO BE TAKEN TO AVOID DAMAGING THE STEEL TENDONS WHILE CUTTING THE SLAB.

PAD FOOTING SCHEDULE				
Foundation Mark Thickness Width Length		Length	Reinforcement Ea. Way	
FTG-1	2' - 0"	2' - 0"	2' - 0"	(6) #4 @ BOTTOM
FTG-2	2' - 0"	3' - 0"	3' - 0"	(8) #4 @ BOTTOM
FTG-4	2' - 0"	3' - 6"	3' - 6"	(10) #4 @ BOTTOM
GB	1' - 6"	1' - 0"	<varies></varies>	(2) #4 @ T&B W/ #3 STIRRUPS @ 6" O.C.
SW-1	2' - 0"	3' - 0"	5' - 6"	(4) #6 @ T&B

HOLDDOWN SCHEDULE

SIMPSON	POST	ANCHOR DIA. AND TYPE	de	le	MIN DIST.
HOLDOWN	(MIN.)				TO CORNER
HDU2	(2)2X4	5/8" DIA. SSTB20	1 3/4"	17"	5"
HDU4	4X4	5/8" DIA. SSTB24	1 3/4"	20"	5"
HDU5	4X4	5/8" DIA. SSTB24	1 3/4"	20"	5"
HDU8	4X4	7/8" DIA. SSTB28	1 3/4"	28"	5"
HDU11	4X6	7/8" DIA. SSTB34	1 3/4"	28"	5"
			1		

HOLDDOWN	ANCHOR	EMBED INTO UNDERPINNING	FASTENERS
HDU2	PAB5	6"	(6) 1/4Ø2-1/2" SDS SCREWS
HDU5	PAB5	8"	(12) 1/4Ø2-1/2" SDS SCREWS
HDU8	PAB7	12"	(20) 1/4Ø2-1/2" SDS SCREWS
HDU11	PAB8	14"	(30) 1/4Ø2-1/2" SDS SCREWS
HDU14	PAB8	16"	(36) 1/4Ø2-1/2" SDS SCREWS

*** SEPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF THE DESIGNERS AND BULLDERS.

*** REGISTER OF PROJECT WITHOUT THE WRITTEN CONSENT OF THE DESIGNER.

*** TOTAL ENGINEERING SERVICES, INC.

CIVIL STRUCTURAL DESIGNA

*** PEGISTER

*** TOTAL ENGINEERING SERVICES, INC.

CIVIL STRUCTURAL DESIGNA

*** TOTAL ENGINEERING SERVICES, INC.

CIVIL STRUCTURAL DESIGNA

*** TOTAL ENGINEERING SERVICES, INC.

STRUCTURAL DESIGNA

*** TOTAL ENGINEERING SERVICES, INC.

TEL. NO. (949) 378-5842

FAX NO. (949) 606-8122

EMAIL: YSal@m@TDS-AE.COM

NO. DATE REVISIONS

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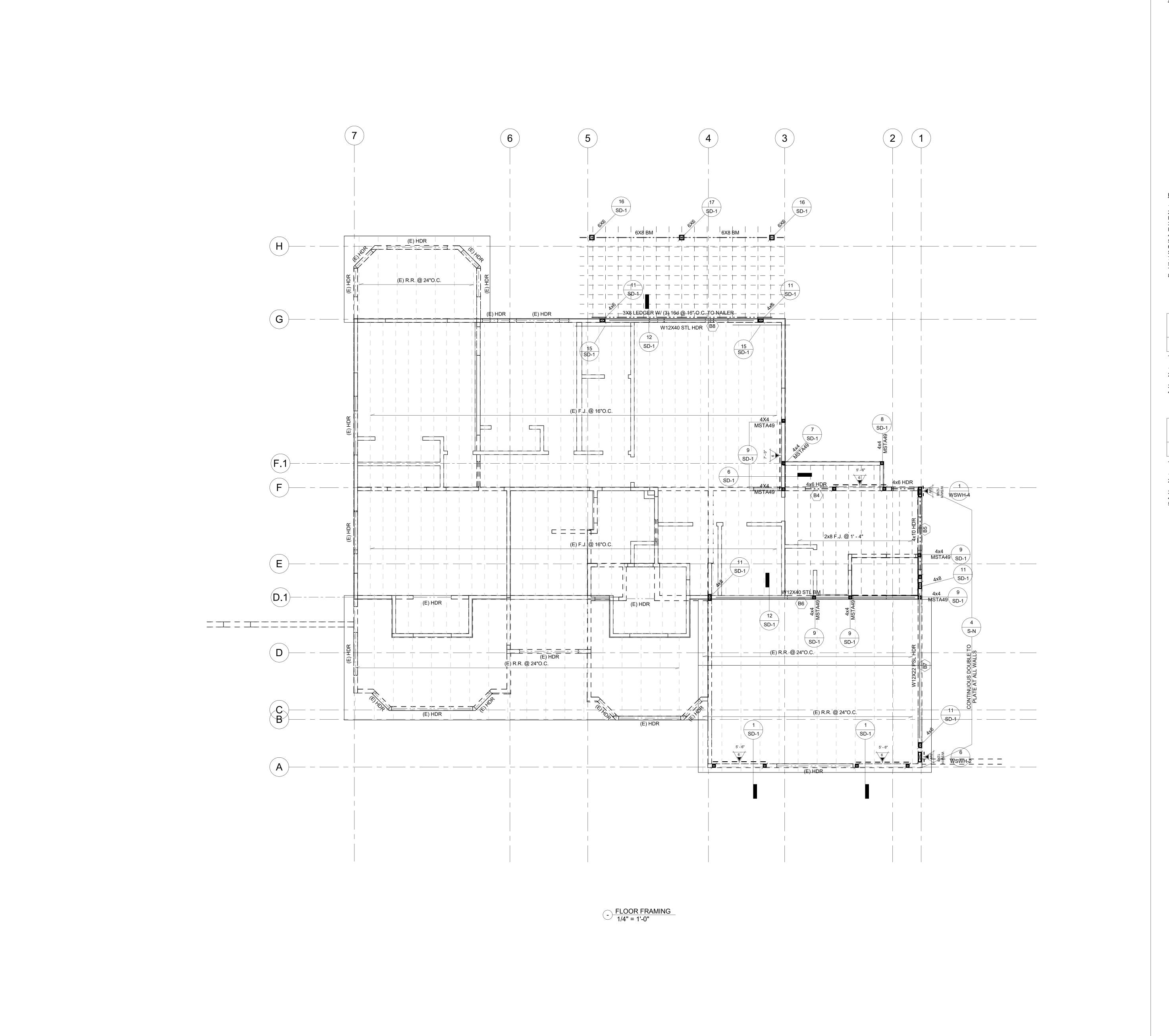
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LEGEND

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INDICATES: PLYWOOD SHEAR WALL INDICATES: LENGTH INDICATES: NUMBER TO REFER TO ON SCHEDULE INDICATES: HSS POST INDICATES: POST ABOVE INDICATES: POST BELOW INDICATES: EXTENT OF JOIST SPAN INDICATES: STEEL BEAM INDICATES: SOLID BLOCKING INDICATES: BEAM NUMBER TO REFER TO FOR CALCUALTIONS ■ INDICATES: WALL ABOVE INDICATES: WALL BELOW INDICATES: CALIFORNIA FRAMING

FOR TYP. HDR DETAIL & SCHEDULE

SEE S-N FOR TYP. SHEARWALL DETAIL

FRAMING NOTES:

1.PROVIDE DOUBLE JOIST AND BLOCKING AROUND ALL ROOF & FLOOR OPENINGS. 2.PROVIDE WIDTH OF BEAM POST OR EQUAL MULTI-STUDS (SPIKED) UNDER ALL HEADERS AND BEAMS CONNECT WITH C.C. CAP U.N.O. (ALT. A34 CLIPS EACH SIDE) 3.PLACE PLYWOOD SHEATHING PERPENDICULAR TO RAFTERS OR JOISTS AND "C" FACE DOWN.

4.INSPECT NAILING PRIOR TO ROOFING & FLOORING. 5.ALL SHEAR WALLS SHALL EXTEND TO ROOF SHEATHING.

6.TOP PLATES OF ALL STUD WALLS SHALL BE 2 PIECES THE SAME SIZE AS STUDS. SPLICES TO LAP 4'-0" MINIMUM WITH 12 - 16D (MIN.) U.N.O. 7.CONNECT ALL MULTIPLE RAFTERS & JOISTS WITH 12D NAILS AT 12" ON CENTER STAGGERED. THREE OR MORE MULTIPLE RAFTERS OR JOISTS SHALL BE BOLTED TOGETHER WITH 1/2" DIAMETER BOLTS AT 24" ON CENTER STAGGERED. 8. ALL PLUMBING WALLS TO BE 2X6 FRAMING

ROOF DIAPHRAGM NAILING SCHEDULE

TYPE	MATERIAL	NAILING		
		B.N.	E.N.	F.N.
I	SEE NOTE #1	8d @ 6" O.C.	8d @ 6" O.C.	8d @ 12" O.C.

- TYPICAL ROOF SHTG. NOTES: 1/2" APA RATED CDX PLYWOOD SHEATHING PI24/0 EXP I UNBLOCKED UNO.
- MIN. INCREASE NAIL SIZE AS REQUIRED. PLYWOOD NAILING SHALL BE INSPECTED.
- ICBO APPROVED ORIENTED-STRAND BOARD (OSB) IS TO BE SUBSTITUTED FOR PLYWOOD WHEN ENGINEERED LUMBER ROOF FRAMING IS USED.

FLOOR DIAPHRAGM NAILING SCHEDULE

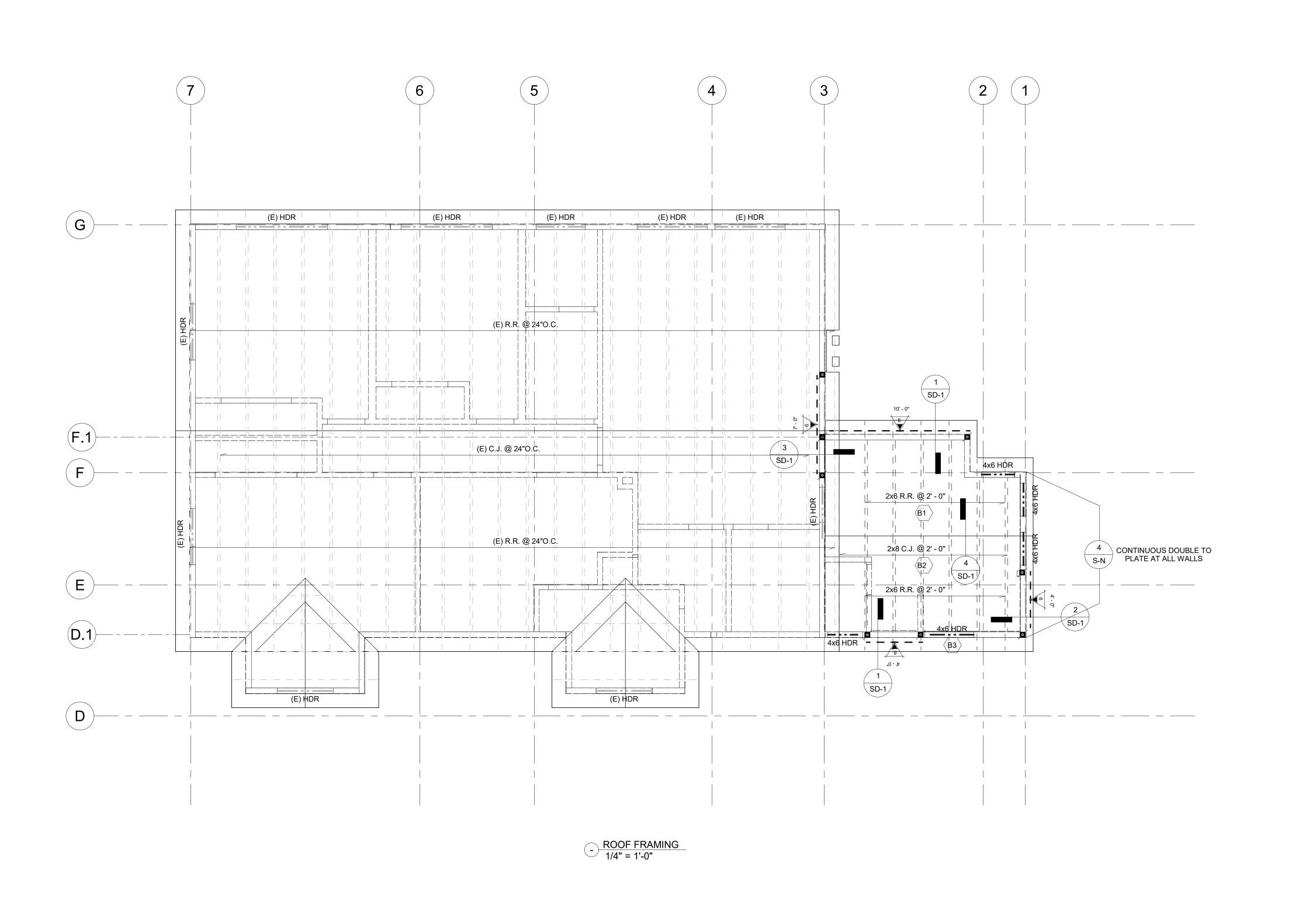
USE 10d PLYWOOD NAILS W/ 5/16 HEAD W/ PENETRATION INTO FRAMING OF 1-1/2"

1175	IVIATERIAL	INAILING			
		B.N.	E.N.	F.N.	
II	SEE NOTE #1	10d @ 6" O.C.	10d @ 6" O.C.	10d @ 12" O.C.	

TYPICAL FLOOR SHTG NOTES:

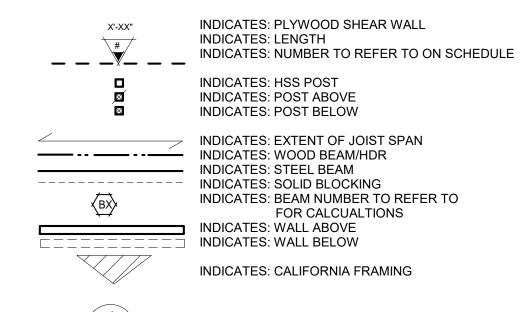
- 3/4" T&G UNBLOCKED STRUCT I PLYWOOD SHTG INDEX 24/0 EXP 1. USE #10 PLYWOOD SCREWS W/ PENETRATION INTO FRAMING OF 1-1/2" MIN. INCREASE NAIL SIZE AS REQUIRED.
- PLYWOOD ATTACHMENT SHALL BE INSPECTED PRIOR TO COVERING. ALL PLYWOOD TO BE GLUED TO JOIST & BEAMS.
- ICBO APPROVED ORIENTED-STRAND BOARD (OSB) IS TO BE SUBSTITUTED FOR PLYWOOD WHEN ENGINEERED LUMBER ROOF FRAMING IS USED.

NO. DATE REVISIONS



LEGEND

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SEE S-N FOR TYP. SHEARWALL DETAIL

ROOF FRAMING NOTES:

1.PROVIDE DOUBLE JOIST AND BLOCKING AROUND ALL ROOF OPENINGS.
2.PROVIDE WIDTH OF BEAM POST OR EQUAL MULTI-STUDS (SPIKED) UNDER ALL HEADERS AND BEAMS CONNECT WITH BC. CAP U.N.O. (ALT. A34 CLIPS EACH SIDE)
3.PLACE PLYWOOD SHEATHING PERPENDICULAR TO RAFTERS AND "C" FACE DOWN.
4.INSPECT NAILING PRIOR TO ROOFING.
5.ALL SHEAR WALLS SHALL EXTEND TO ROOF SHEATHING.
6.TOP PLATES OF ALL STUD WALLS SHALL BE 2 PIECES THE SAME SIZE AS STUDS.

SPLICES TO LAP 4'-0" MINIMUM WITH 12 - 16D (MIN.) U.N.O.
7.CONNECT ALL MULTIPLE RAFTERS WITH 12D NAILS AT 12" ON CENTER STAGGERED.
THREE OR MORE MULTIPLE RAFTERS SHALL BE BOLTED TOGETHER WITH 1/2"
DIAMETER BOLTS AT 24" ON CENTER STAGGERED.
8. ALL PLUMBING WALLS SHOULD BE 2X6 FRAMING

ROOF DIAPHRAGM NAILING SCHEDULE

TYPE	MATERIAL	NAILING		
		B.N.	E.N.	F.N.
I	SEE NOTE #1	8d @ 6" O.C.	8d @ 6" O.C.	8d @ 12" O.C.

TYPICAL ROOF SHTG. NOTES:

- 1/2" APA RATED CDX PLYWOOD SHEATHING PI24/0 EXP I UNBLOCKED UNO.
 USE 10d PLYWOOD NAILS W/ 5/16 HEAD W/ PENETRATION INTO FRAMING OF 1-1/2" MIN. INCREASE NAIL SIZE AS REQUIRED.
- PLYWOOD NAILING SHALL BE INSPECTED.
 ICBO APPROVED ORIENTED-STRAND BOARD (OSB) IS TO BE SUBSTITUTED FOR PLYWOOD WHEN ENGINEERED LUMBER ROOF FRAMING IS USED.

FLOOR DIAPHRAGM NAILING SCHEDULE

	TYPE	MATERIAL		NAILING		
			B.N.	E.N.	F.N.	
	II	SEE NOTE #1	10d @ 6" O.C.	10d @ 6" O.C.	10d @ 12" O.C.	

TYPICAL FLOOR SHTG NOTES:

- 3/4" T&G UNBLOCKED STRUCT I PLYWOOD SHTG INDEX 24/0 EXP 1. USE #10 PLYWOOD SCREWS W/ PENETRATION INTO FRAMING OF 1-1/2" MIN. INCREASE NAIL SIZE AS REQUIRED.
- PLYWOOD ATTACHMENT SHALL BE INSPECTED PRIOR TO COVERING.
 ALL PLYWOOD TO BE GLUED TO JOIST & BEAMS.
- 5. ICBO APPROVED ORIENTED-STRAND BOARD (OSB) IS TO BE SUBSTITUTED FOR PLYWOOD WHEN ENGINEERED LUMBER ROOF FRAMING IS USED.

RAFTER TIE SCHEDULE

ROOF SLOPE	SPAN (FT)	NAILING
3:12	12	(5) 16d
	24	(10) 16d
	36	(15) 16d
4:12	12	(4) 16d
	24	(8) 16d
	36	(11) 16d
5:12	12	(3) 16d
	24	(6) 16d
	36	(9) 16d
7:12	12	(3) 16d
	24	(5) 16d
	36	(7) 16d

ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF THE DESIGNERS.

TOTAL ENGINEERING SERVICES, INC.

TOTAL ENGINEERING SERVICES, INC.

CIVIL STRUCTURAL DESIGN

TOTAL ENGINEERING SERVICES, INC.

CIVIL STRUCTURAL DESIGN

TOTAL ENGINEERING SERVICES, INC.

TOTAL

ı		
NO.	DATE	REVISIONS

SIDEN HAL IN LEKIOK
MODEL
BALINDA, CA 92886
CF FRAMING PLAN

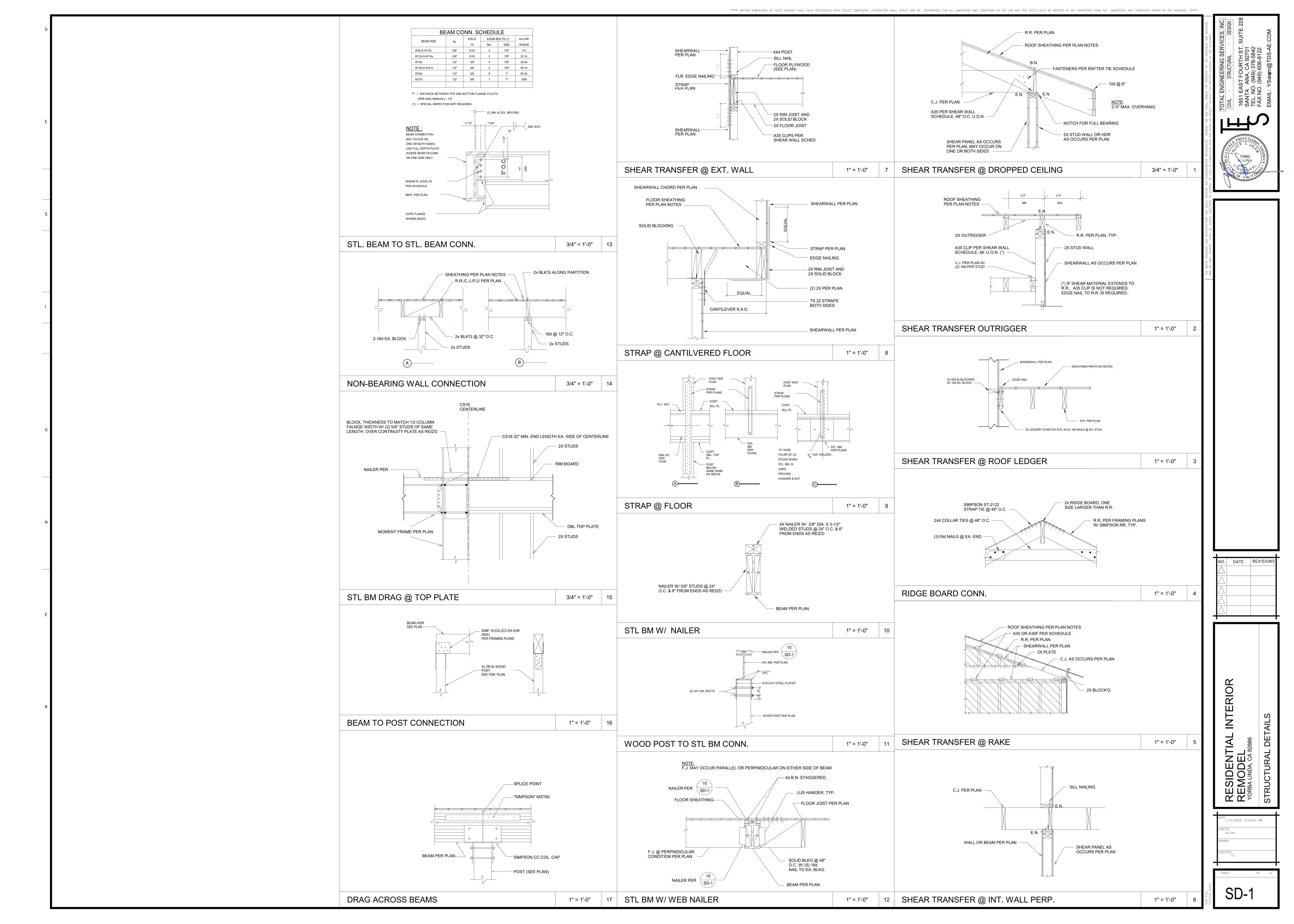
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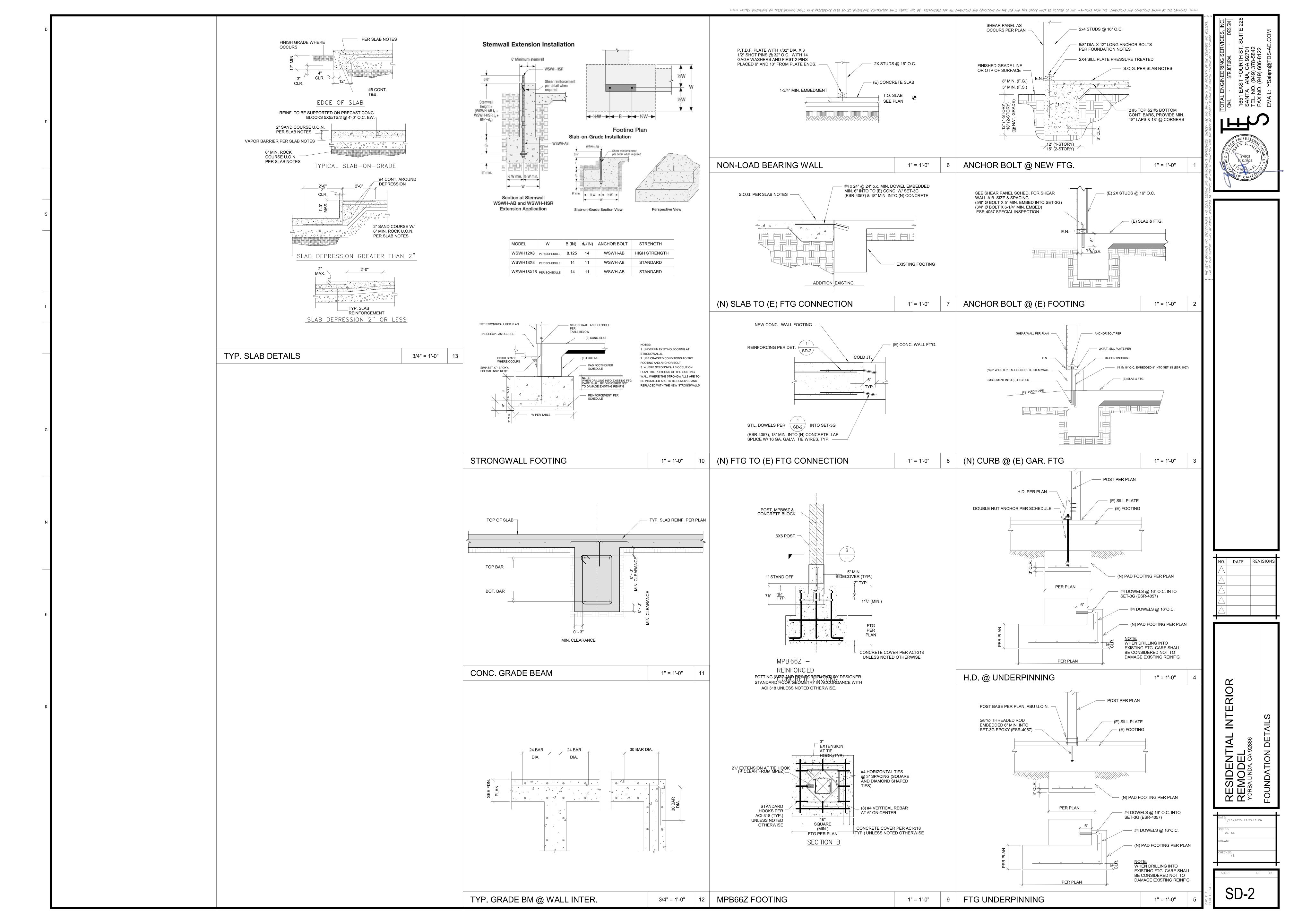
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24-66

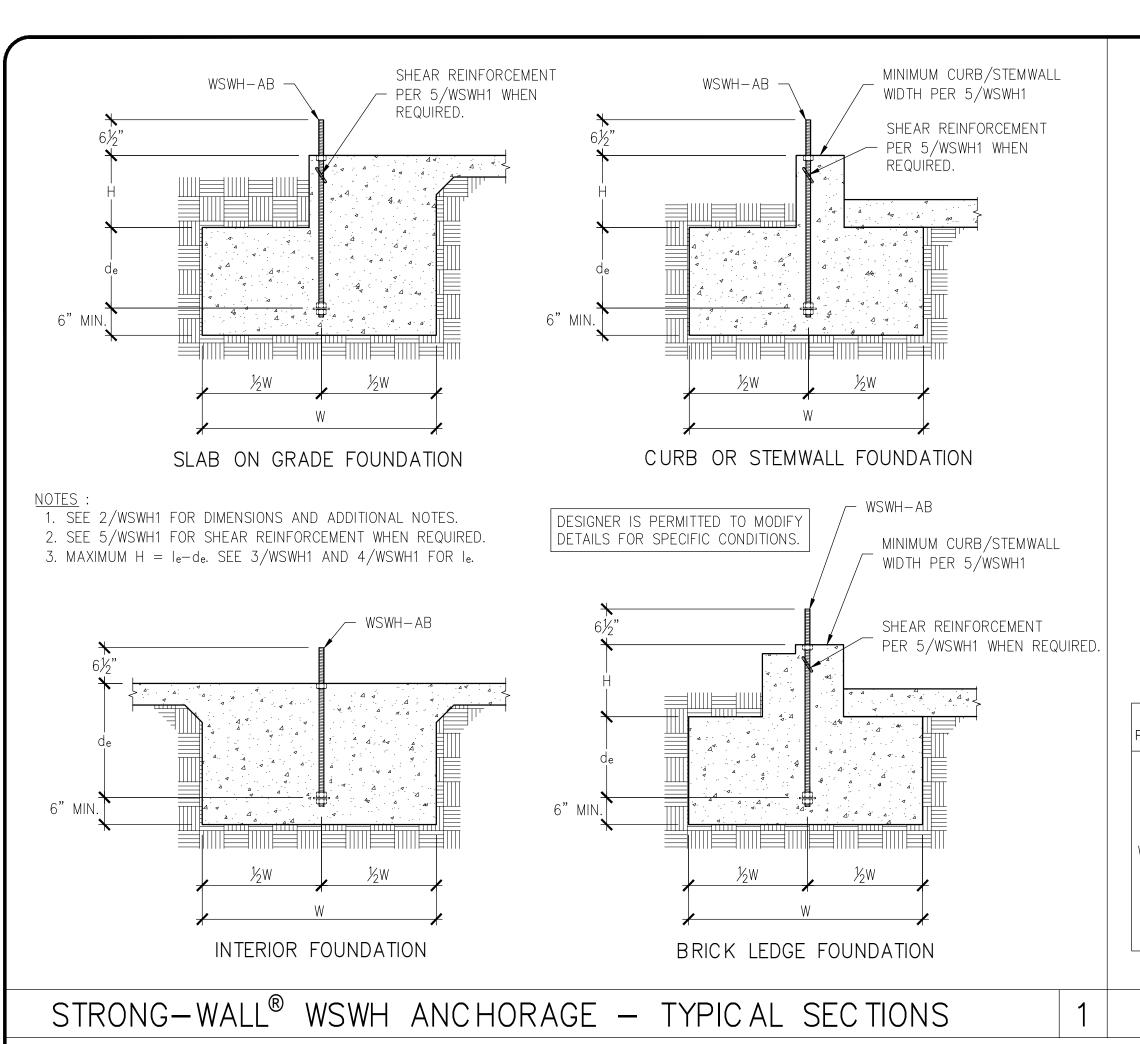
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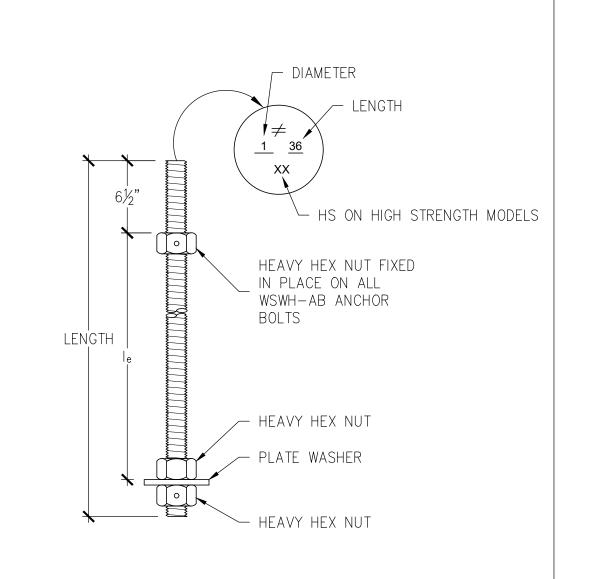
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YS

S-3



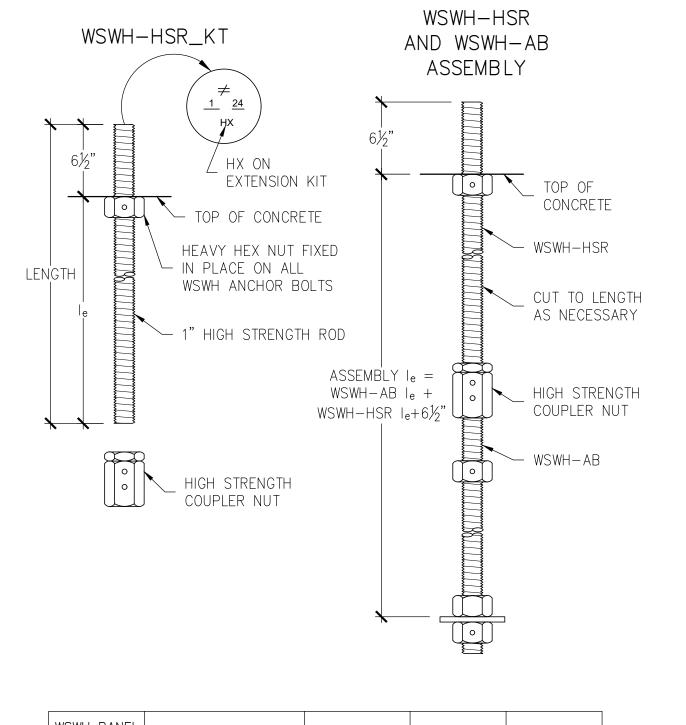




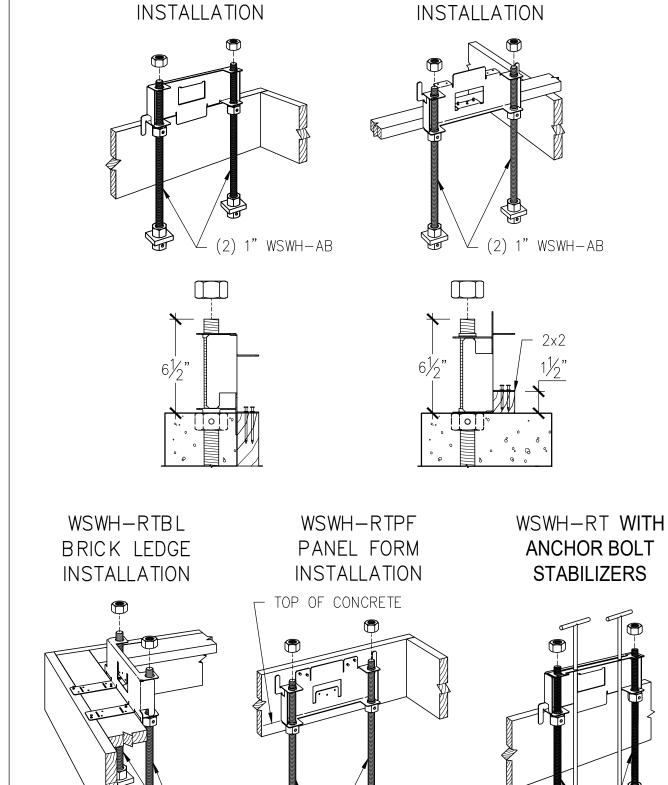


WSWH PANEL MODEL	MODEL NO.	DIAMETER	LENGTH	le
	WSWH-AB1x24	1"	24"	15½"
	WSWH-AB1x24HS	1"	24"	15½"
	WSWH-AB1x30	1"	30"	21½"
14/014/11/14/0	WSWH-AB1x30HS	1"	30"	21½"
WSWH12, WSWH18 AND	WSWH-AB1x36	1"	36"	27½"
WSWH24	WSWH-AB1x36HS	1"	36"	27½"
WOWIZI	WSWH-AB1x42	1"	42"	33½"
	WSWH-AB1x42HS	1"	42"	33½"
	WSWH-AB1x48	1"	48"	39½"
	WSWH-AB1x48HS	1"	48"	39½"

WSWH ANCHOR BOLTS



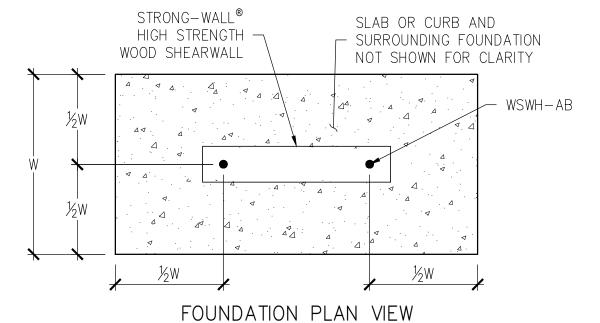
WSWH PANEL MODEL	MODEL NO.	DIAMETER	LENGTH	l _e
WSWH12,	WSWH-HSR1x24KT	1"	24"	17½"
WSWH18 AND WSWH24	WSWH-HSR1x36KT	1"	36"	29½"

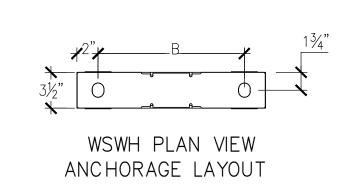


WSWH-RT INTERIOR

 \checkmark (2) 1" WSWH-AB (2) 1" WSWH-AB \checkmark

WSWH-RT EXTERIOR





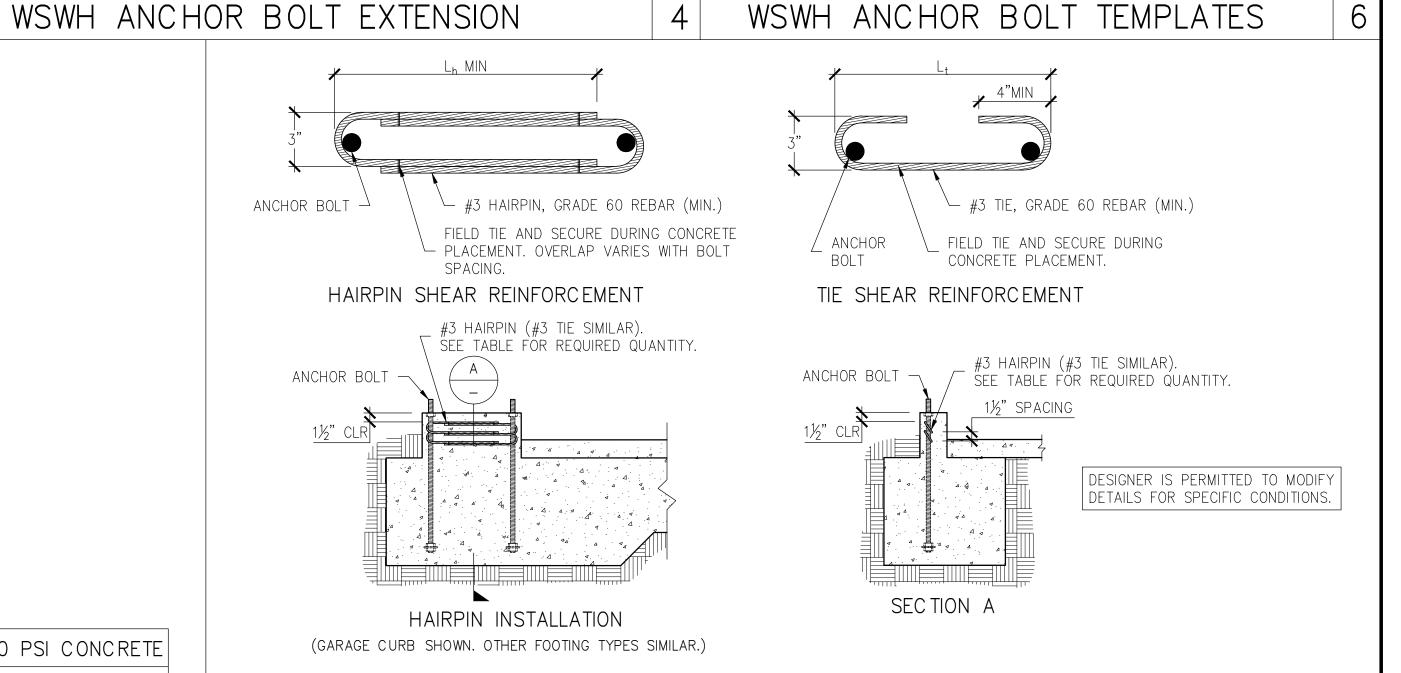
ANCHOR BOLT LAYOUT							
STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL MODEL NO.	DISTANCE FROM CENTER-TO-CENTER OF WSWH-AB, B (in)						
WSWH12	81/8						
WSWH18	14						
WSWH24	20						

- 1. ANCHORAGE DESIGNS CONFORM TO ACI 318-11 APPENDIX D, ACI 318-14 CHAPTER 17 AND ACI 318-19 CHAPTER 17 WITH NO SUPPLEMENTARY REINFORCEMENT FOR CRACKED OR UNCRACKED CONCRETE AS NOTED 2. ANCHOR STRENGTH INDICATES REQUIRED GRADE OF WSWH-AB ANCHOR BOLT. STANDARD (ASTM F1554 GRADE 36) OR HIGH STRENGTH (HS) (ASTM A193 GRADE B7).
- 3. SEISMIC INDICATES SEISMIC DESIGN CATEGORY C-F. DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C MAY USE WIND ANCHORAGE SOLUTIONS. SEISMIC ANCHORAGE DESIGNS CONFORM TO ACI 318-11 SECTION D.3.3.4.3, ACI 318-14 SECTION 17.2.3.4.3 AND ACI 318-19 SECTION 17.10.5.3.
- 4. WIND INCLUDES SEISMIC DESIGN CATEGORY A AND B AND DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C. 5. FOUNDATION DIMENSIONS ARE FOR ANCHORAGE ONLY. FOUNDATION DESIGN (SIZE AND REINFORCEMENT) BY OTHERS.
- THE DESIGNER MAY SPECIFY ALTERNATE EMBEDMENT, FOOTING SIZE OR ANCHOR BOLT. 6. REFER TO 1/WSWH1 FOR de.

WSWH AN	NC HORAGE	SOLUTIONS F	FOR 2500	PSI CO	NC RETE			
			WSWH-AB1 ANCHOR BOLT					
DESIGN CRITERIA	CONCRETE CONDITION	ANC HOR STRENGTH	ASD ALLOWABLE UPLIFT (Ibs)	W (in)	d _e (in)			
		STANDARD	16,000 17,100	33 35	11 12			
CEICHIO	CRACKED	HIGH STRENGTH	34,100 36,800	52 55	18 19			
SEISMIC	UNCRACKED	STANDARD	15,700 17,100	28 30	10 10			
		HIGH STRENGTH	33,500 36,800	45 48	15 16			
		STANDARD	6,200 11,400 17,100	16 24 32	6 8 11			
	CRACKED	HIGH STRENGTH	21,100 27,300 34,100 36,800	36 42 48 51	12 14 16 17			
WIND		STANDARD	6,400 12,500 17,100	14 22 28	6 8 10			
	UNCRACKED	HIGH STRENGTH	22,900 26,400 34,200 36,800	33 36 42 44	11 12 14 15			

WSWH A	NC HORAGE	SOLUTIONS	FOR 3000	PSI CC	NC RETE			
			WSWH-AB1 ANCHOR BOLT					
DESIGN CRITERIA	CONCRETE CONDITION	ANC HOR STRENGTH	ASD ALLOWABLE UPLIFT (Ibs)	W (in)	d _e (in)			
		STANDARD	16,000	31	11			
	CRACKED	317111071110	17,100	33	11			
	OTOTOLED	HIGH STRENGTH	33,900	49	17			
SEISMIC		THOIT STILLINGTH	36,800	52	18			
SEISIVIIO	UNCRACKED -	STANDARD	16,300	27	9			
		31/11/0/11/0	17,100	28	10			
		HIGH STRENGTH	34,000	43	15			
		THOIT STILLIOTT	36,800	46	16			
			5,600	14	6			
		STANDARD	10,200	21	7			
			17,100	30	10			
	CRACKED		20,000	33	11			
		HIGH STRENGTH	26,500	39	13			
		IIIOII SII\LINGIA	33,600	45	15			
WIND			36,800	48	16			
VVIIVU			6,200	13	6			
		STANDARD	12,800	21	7			
			17,100	26	9			
	UNCRACKED		21,800	30	10			
		LUCII CTDENOTU	28,900	36	12			
		HIGH STRENGTH	33,100	39	13			
			36,800	42	14			

WSWH A	NCHORAGE	SOLUTIONS	FOR 4500	PSI CC)NC RE
			WSWH-AB	1 ANCHOF	R BOLT
DESIGN CRITERIA	CONCRETE CONDITION	ANC HOR STRENGTH	ASD ALLOWABLE UPLIFT (Ibs)	W (in)	d _e (in)
		STANDARD	16,000	27	9
	CRACKED	STANDAND	17,100	29	10
	CNACKED	HIGH STRENGTH	34,700	44	15
SEISMIC		TIIGH SINLINGHI	36,800	46	16
SEISIVIIO		STANDARD	15,700	23	8
	UNCRACKED	STANDAND	17,100	25	9
	ONONNONED	HIGH STRENGTH	33,900	38	13
		THOIT STILLINGTH	36,800	40	14
			6,800	14	6
		STANDARD	11,600	20	7
			17,100	26	9
	CRACKED		21,400	30	10
		HIGH STRENGTH	28,400	36	12
		IIIGII SIIVLINGIII	32,400	39	13
WIND			36,800	43	15
WIIND			6,800	12	6
		STANDARD	12,400	18	6
			17,100	23	8
	UNCRACKED		22,800	27	9
		HIGH STRENGTH	26,700	30	10
		HIGH SIKENGIH	30,700	33	11
			36,800	37	13



(2) 1" WSWH−AB →

	STRON	G-WALL® HIGH S	STRENGTH W	OOD SHEARWALI	L SHEAR AN	CHORAGE		
		SEISMIC ³		WIND ⁴				
MODEL	L _t OR L _h (in.)	SHEAR REINFORC EMENT	MIN. CURB/ STEMWALL WIDTH (in.)	SHEAR REINFORC EMENT	MIN. CURB/ STEMWALL WIDTH (in.)	ASD ALLOWABL V (·	
			(111.)		(111.)	UNCRACKED	CRACKED	
WSWH12	101/4	(1) #3 TIE	6	SEE NOTE 7	6	1,080	770	
WSWH18	15	(2) #3 HAIRPINS ^{5,6}	6	(1) #3 HAIRPIN	6	HAIRPIN REINF. ACHIEVES MAX ALLOW SHEAR LOAD OF THE WSWH		
WSWH24	19	(2) #3 HAIRPINS ⁵	6	(2) #3 HAIRPINS ⁵	6			

- 1. SHEAR ANCHORAGE DESIGNS CONFORM TO ACI 318-19, ACI 318-11 AND ACI 318-14 AND ASSUME MINIMUM 2,500 PSI CONCRETE.
- 2. SHEAR REINFORCEMENT IS NOT REQUIRED FOR INTERIOR FOUNDATION APPLICATIONS (PANEL INSTALLED AWAY FROM EDGE OF CONCRETE), OR BRACED WALL PANEL APPLICATIONS.
- 3. SEISMIC INDICATES SEISMIC DESIGN CATEGORY C THROUGH F. DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C MAY USE WIND ANCHORAGE
- SOLUTIONS. SEISMIC SHEAR REINFORCEMENT DESIGNS CONFORM TO ACI 318-19, SECTION 17.10.6.3, ACI 318-14, SECTION 17.2.3.5.3

- 4. WIND INCLUDES SEISMIC DESIGN CATEGORY A AND B.
- 5. ADDITIONAL TIES MAY BE REQUIRED AT GARAGE CURB OR STEMWALL INSTALLATIONS BELOW ANCHOR REINFORCEMENT PER DESIGNER.
- 6. USE (1) #3 HAIRPIN FOR WSWH18 WHEN STANDARD STRENGTH ANCHOR IS USED. 7. USE (1) #3 TIE FOR WSWH12 WHEN PANEL DESIGN SHEAR FORCE EXCEEDS TABULATED ANCHORAGE ALLOWABLE SHEAR LOAD.
- 8. #4 GRADE 40 SHEAR REINFORCEMENT MAY BE SUBSTITUTED FOR WSWH SHEAR ANCHORAGE SOLUTIONS. 9. CONCRETE EDGE DISTANCE FOR ANCHORS MUST COMPLY WITH ACI 318-19 SECTION 17.9.2, ACI 318-14 SECTION 17.7.2 AND ACI 318-11 SECTION
- 10. THE DESIGNER MAY SPECIFY ALTERNATE SHEAR ANCHORAGE.

STRONG-WALL® WSWH SHEAR ANCHORAGE SCHEDULE AND DETAILS | 5

STRONG-WALL® HIGH STRENGTH WOOD SHEARWALL TENSION ANCHORAGE SCHEDULE 2,500, 3,000 AND 4,500 PSI

DE: DE: i-WALI C

MSMH

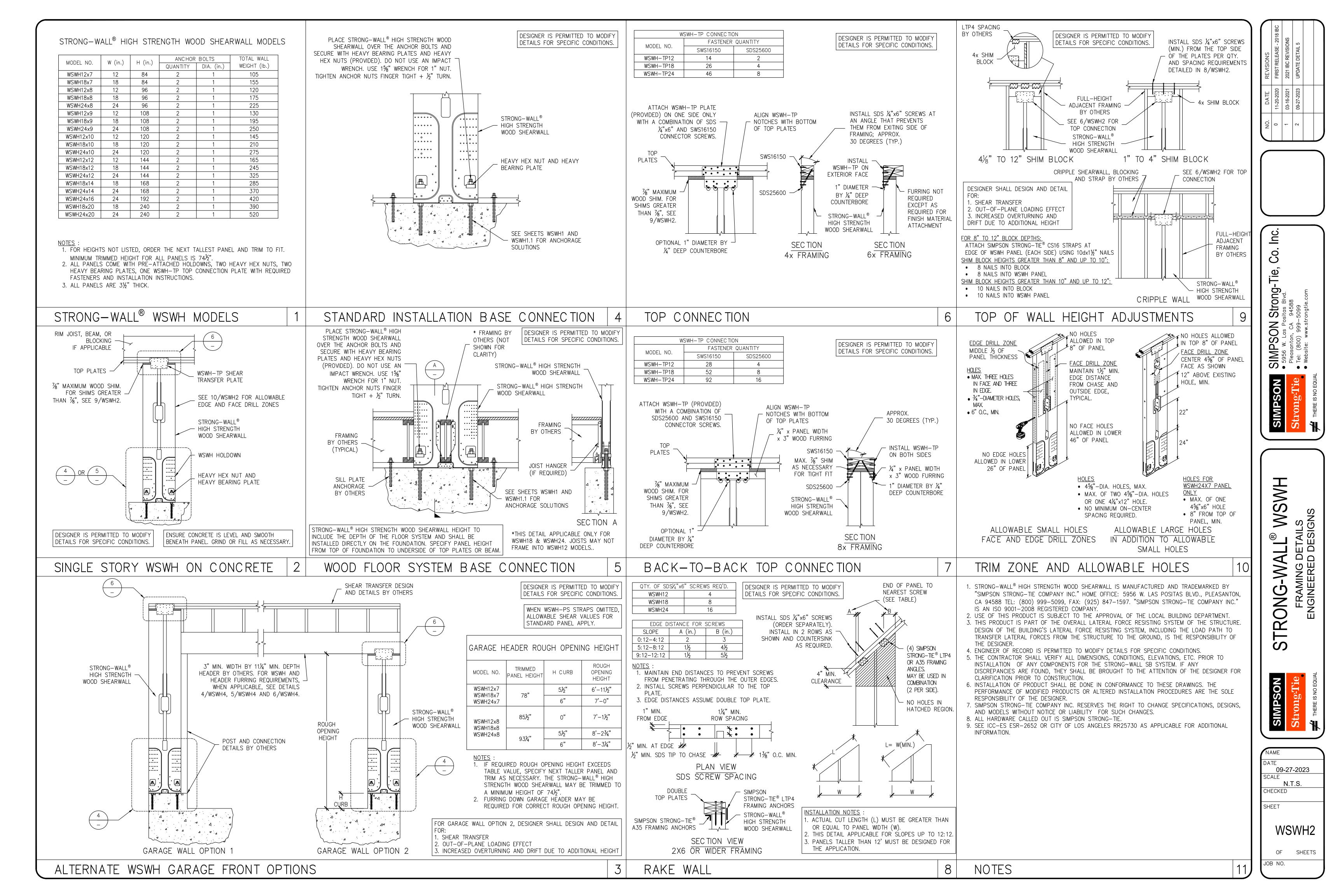
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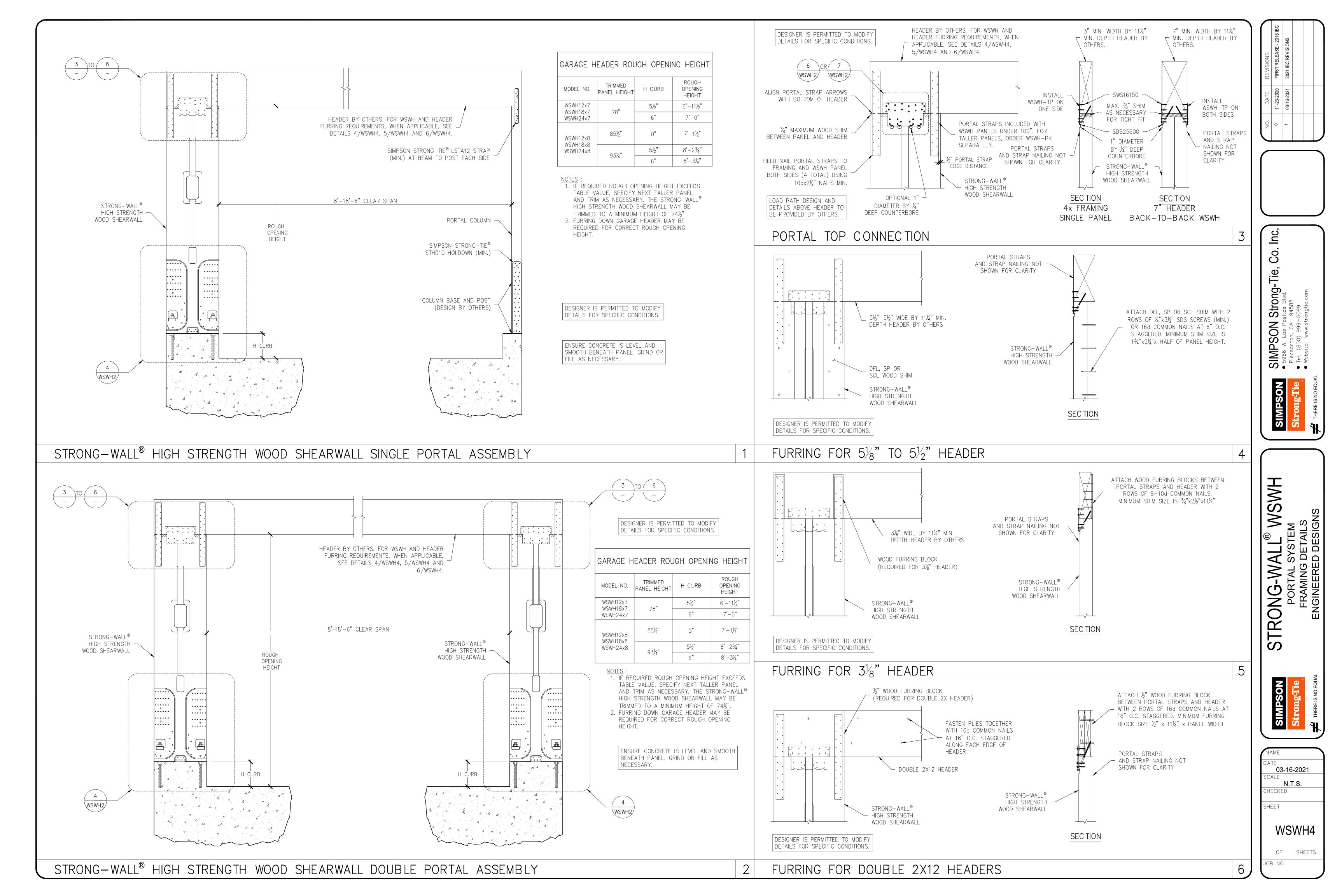
O

SIMPS(
• 5956 W. La Pleasanton,
• Tel: (800)

04-29-2022 N.T.S. CHECKED SHEET

WSWH1 OF SHEETS





Registration Number: 424-P010319551A-000-000-0000000-0000 NOTICE: This document has been generated by California Home Energy Efficiency Rating Services (CHEERS) and cannot guarantee, the accuracy or completeness of the information contained in this document.	Registration Date/Time: 12/18/2024 13:35) using information uploaded by third parties not affiliated with or relate	HERS Provider: CHEERS ed to CHEERS. Therefore, CHEERS is not respon	sible f
and cannot guarantee, the accuracy or completeness of the information contained in this document. CA Building Energy Efficiency Standards - 2022 Residential Compliance	Report Version: 2022.0.000	Report Generated: 2024-12-18 13:29	
	Schema Version: rev 20220901		

roject Name	: Residenti	ai Building						C	aiculation	Date/Time	2024-12-	18T13:29:24-08	3:00		(Page 5 of :
alculation D	escription:	Title 24 Analys	sis					h	nput File N	ame: Buildi	ng1.ribd22	2x			
NESTRATION	I / GLAZING														
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Name	Туре	Surface	Orientatio n	Azimuth	Width (ft)	Heigh t (ft)	Mult.	Area (ft ²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading	Status	Verified Existing Condition
Window 2	Window	Left Wall	Left	225			1	50	0.2	NFRC	0.23	NFRC	Bug Screen	Existing	No
Window 3	Window	Rear Wall	Back	315			1	152	0.2	NFRC	0.23	NFRC	Bug Screen	Existing	No
Window 4	Window	Right Wall	Right	45			1	18	0.2	NFRC	0.23	NFRC	Bug Screen	Existing	No
Window 5	Window	Front Wall 2	Front	135			1	38	0.2	NFRC	0.23	NFRC	Bug Screen	Altered	No
Window 6	Window	Left Wall 2	Left	225			1	24	0.2	NFRC	0.23	NFRC	Bug Screen	Existing	No
Window 7	Window	Rear Wall 2	Back	315			1	88	0.2	NFRC	0.23	NFRC	Bug Screen	Existing	No
Window 8	Window	Right Wall 2	Right	45			1	18	0.2	NFRC	0.23	NFRC	Bug Screen	Altered	No

Door		Front Wall		40	0.2		Existing		No	
Door 2	2	Rear Wall		19		0.2			No	
SLAB FLOORS										
01	02	03	04	05	06	07	08	09	10	
Name	Zone	Area (ft ²)	Perimeter (ft)	Edge Insul. R-value and Depth	Edge Insul. R-value and Depth	Carpeted Fraction	Heated	Status	Verified Existing Condition	
Slab	Zone 1	1662	0.1	none	0	80%	No	Altered	No	

Area (ft²)

U-factor

Side of Building

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Registration Number: 424-P010319551A-000-0000000-00000 Registration Date/Time: 12/18/2024 13:35 HERS Provider: CHEERS

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CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Report Generated: 2024-12-18 13:29:40 Schema Version: rev 20220901

Project Name: Residential Building	Calculation Date/Time: 20	24-12-18T13:29:24-08:00 (Page 9 of 10)				
Calculation Description: Title 24 Analysis	Input File Name: Building1.ribd22x					
HVAC FAN SYSTEMS - HERS VERIFICATION						
01	02	03				
Name	Verified Fan Watt Draw	Required Fan Efficacy (Watts/CFM)				

AN SYSTEMS - HERS VERIFICATION			DOCUMENTATION AL
01	02	03	1. I certify that this Ce
Name	Verified Fan Watt Draw	Required Fan Efficacy (Watts/CFM)	Documentation Author N Yasser Salem
HVAC Fan 1-hers-fan	Not Required	0	Company: Total Engineering Set Address: 1651 East Fourth St City/State/Zip: Santa Ana, CA 9270 RESPONSIBLE PERSON I certify the following un 1. I am eligible 2. I certify that 3. The building calculations, Responsible Designer Na Yasser Salem
			Company: Total Engineering Se Address: 1651 East Fourth St

Verified Existing Condition

CF1R-PRF-01-E

Status

Registration Number: 424-P010319551A-000-000-000000-0000	Registration Date/Time: 12/18/2024 13:35	
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CA Building Energy Efficiency Standards - 2022 Residential Compliance	Report Version: 2022.0.000	Report Generated: 2024-12-18 13:29:40

Schema Version: rev 20220901

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE MI Project Name: Residential Building Calculation Description: Title 24 Analysis			Calculation Date/Time Input File Name: Build	CF1R-PRF-01		
ENERGY USE SUMMARY				_		
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft ² -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft ² -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2
Space Heating	0	13.04	0	12.05	0	0.99
Space Cooling	0	30.26	0	30.53	0	-0.27
IAQ Ventilation	0	0	0	0	0	0
Water Heating	0	13.7	0	13.84	0	-0.14
Self Utilization/Flexibility Credit				0		0
Efficiency Compliance Total	0	57	0	56.42	0	0.58
Photovoltaics		0	7/1	0		
Battery				0		
Flexibility				4/		
Indoor Lighting	0	6.09	0	6.09		
Appl. & Cooking	0	16.75	0	16.75		
Plug Loads	0	21.05	0	21.05		
Outdoor Lighting	0	1.59	0	1.59		
TOTAL COMPLIANCE	0	102.48	0	101.9		

Posistration Numbers 424 P040240551 A 000 000 00000	200 0000	Pagistration Data/Times 12/19/2024 12:25	HERS Provider: CHEERS	
Registration Number: 424-P010319551A-000-000-00000	JUU-UUUU ray Efficiency Rating Services (CHEERS	Registration Date/Time: 12/18/2024 13:35		t responsible
NOTICE: This document has been generated by California Home Ener and cannot guarantee, the accuracy or completeness of the informati				
CA Building Energy Efficiency Standards - 2022 Residenti	ial Compliance	Report Version: 2022.0.000	Report Generated: 2024-12-18	13:29:40
		Schema Version: rev 20220901		

•	Title 24 Ar	iaiysis		Шрс	t File Name: Bu	nungi.nbuzzx						
PAQUE SURFACE CONSTR	UCTIONS				_							
01	0	2	03	04	05	06	07	08				
Construction Name	Surfac	е Туре	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers				
R-19 Wall	Exterio	r Walls	Wood Framed Wall	2x6 @ 16 in. O. C.	R-19	None / None	0.074	Inside Finish: Gypsum Board Cavity / Frame: R-19 in 5-1/2 in. (R-18) 2x6 Exterior Finish: 3 Coat Stucco				
R-15 Wall	Exterior Walls		Exterior Walls		R-15 Wall Exterior Walls		Wood Framed Wall	2x4 @ 16 in. O. C.	R-15	None / None	0.095	Inside Finish: Gypsum Board Cavity / Frame: R-15 / 2x4 Exterior Finish: 3 Coat Stucco
Attic RoofZone 1	Attic Roofs		Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-0	None / 0	0.644	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x4				
Attic RoofZone 2	Attic Roofs		Attic Roofs		Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-0	None / 0	0.644	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x4		
R-38 Roof Attic	Ceilings (below attic)		0 1		Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-38	None / None	0.025	Over Ceiling Joists: R-28.9 insul. Cavity / Frame: R-9.1 / 2x4 Inside Finish: Gypsum Board		
R-22 Floor No Crawlspace	Exterior Floors		Wood Framed Floor	2x8 @ 16 in. O. C.	R-22	None / None	0.044	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: R-22 / 2x8				
BUILDING ENVELOPE - HER	S VERIFICA	TION										
01			02	03		04		05				
Quality Insulation Installa	tion (QII)	High R-va	lue Spray Foam Insulation	Building Envelope A	r Leakage	CFM50		CFM50				
Not Required			Not Required	N/A		n/a		n/a				

1	Registration Number: 424-P010319551A-000-000-000000-0000 IOTICE: This document has been generated by California Home Energy Efficiency Rating Services (CHEERS), and cannot guarantee, the accuracy or completeness of the information contained in this document.	Registration Date/Time: 12/18/2024 13:35 using information uploaded by third parties not affiliated with or relat	HERS Provider: CHEERS ed to CHEERS. Therefore, CHEERS is no	t responsible fo
ć	CA Building Energy Efficiency Standards - 2022 Residential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220901	Report Generated: 2024-12-18	

Project Name: Residential Building	Calculation Date/Time: 2024-12-18T13:29:24-08:00	(Page 10 of
	•	(Page 10 of 1
Calculation Description: Title 24 Analysis	Input File Name: Building1.ribd22x	
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT		
1. I certify that this Certificate of Compliance documentation is accurate a	and complete.	
Documentation Author Name:	Documentation Author Signature:	
Yasser Salem	Yasser Salem	
Company:	Signature Date:	
Total Engineering Services, Inc.	12/18/2024	
Address:	CEA/ HERS Certification Identification (If applicable):	
1651 East Fourth Street, Suite 228		
City/State/Zip:	Phone:	
Santa Ana, CA 92701	(949) 378-5842	
RESPONSIBLE PERSON'S DECLARATION STATEMENT		
I certify the following under penalty of perjury, under the laws of the State of Calif	ornia:	
	accept responsibility for the building design identified on this Certificate of Compliance.	
	ified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the Califo	•
 The building design features or system design features identified on the calculations, plans and specifications submitted to the enforcement as 	is Certificate of Compliance are consistent with the information provided on other applicable compliance do tency for approval with this building permit application.	cuments, worksneets,
	Responsible Designer Signature:	
Responsible Designer Name:	responsible designer signature.	
	Yasser Salem	
Yasser Salem		
Responsible Designer Name: Yasser Salem Company: Total Engineering Services, Inc.	Yasser Salem	
Yasser Salem Company:	Yasser Salem Date Signed:	
Yasser Salem Company: Total Engineering Services, Inc.	Passer Salem Date Signed: 12/18/2024	
Yasser Salem Company: Total Engineering Services, Inc. Address:	Passer Salem Date Signed: 12/18/2024	

Digitally signed by California Home Energy Efficiency Rating Services (CHEERS). This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.

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CA Building Energy Efficiency Standards - 2022 Residential Compliance	Report Version: 2022.0.000	Report Generated: 2024-12-18 13:29:40
	Schema Version: rev 20220901	

RTIFICATE OF COMPLIANCE	CF1R-PRF-01-E (Page 3 of 10						
oject Name: Residential Buil	ding	Calculation Date/T	Calculation Date/Time: 2024-12-18T13:29:24-08:00				
Iculation Description: Title 2	24 Analysis	Input File Name: B					
NERGY USE INTENSITY							
	Standard Design (kBtu/ft ² - yr)	Proposed Design (kBtu/ft ² - yr)	Margin (kBtu/ft ² - yr)	Margin Percentage			
Gross EUI ¹	12.85	12.81	0.04	0.31			
Net EUI ²	12.85	12.81	0.04	0.31			

<u> </u>	otal (not including PV) / Total Buil al (including PV) / Total Building A	-				
REQUIRED SPECIAL FEATURES						
The following are features that	must be installed as condition fo	r meeting the modeled e	energy performance for this	s computer analysis.		
Floor has high level of in	sulation					
HERS FEATURE SUMMARY						
	the features that must be field-veng tables below. Registered CF2Rs				gy performance for this comput	ter analysis. Additional
Kitchen range hood						
		W	7			
BUILDING - FEATURES INFORM	MATION					
01	02	03	04	05	06	07
Project Name	Conditioned Floor Area (ft ²)	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
Residential Building	3100	1	4	2	0	1

01	02		03		04	05	06	07
Project Name	Conditioned Floor Are	ea (ft ²)	Number of Dwelli Units	ing	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
Residential Building	3100		1	-	4	2	0	1
ZONE INFORMATION	ZONE INFORMATION							
01	02		03		04	05	06	07
Zone Name	Zone Type	HVA	AC System Name	Zo	one Floor Area (ft ²)	Avg. Ceiling Height	Water Heating System 1	Status
Zone 1	Conditioned	H	HVAC System1		1662	8	DHW Sys 1	Existing Unchanged
Zone 2	Conditioned	H	HVAC System1		1438	8	DHW Sys 1	Existing Unchanged

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Project Nam Calculation				is					Calculation Date/Time: 2024-12-18T13:29:24-08:00 (Page 7 of Input File Name: Building1.ribd22x										
WATER HEAT	ING SYSTEM	VIS																	
01	0)2	03		04	05	06		07	08		09		10	11				
Name	Systen	Distribution Water Heater Number of Type Name Units		And the second s	Solar Heat System	-	Compact stribution	HERS Verification		Vater Heat Name (#)	1 5+	atus	Verified Existing Condition	Existir He Sy					
DHW Sys 1	10-010-000-000-000	stic Hot (DHW)	I Standard I I I n/a I None		None	n/a	С	DHW Heate 1 (1)	er N	ew	NA								
WATER HEAT	ERS						w	-	-41		+								
01	02	03 04 05 06		07	08	09	10		11	12	13	1	4						
Name	Heating Element Type	ement Tank Type		# of Unit	0.200.000.000.000.000.000.000	Heating Efficiency Type	Efficiency	Rated Input Ty	Dating	g or Insulatio	n F	Standby Loss or Recovery Eff	1st Hr. Rating or Flow Rate	Tank Loca	ation Sta	tus E			
DHW Heater 1	Gas		nsumer ntaneous	1	0	UEF	0.81	Btu/H	r 2000	00 0		n/a	n/a		N	ew .			
WATER HEAT	ING - HERS	VERIFIC	ATION		-		-				Н								
0)1		02			03		04		05	; /		(06		07			
Na	me		Pipe Insul	ation	Par	allel Piping	Com	Compact Dist		Compact Distr Type		ution	Recirculat	Recirculation Control		Shower Drain Wate Recovery			
DHW Sy	rs 1 - 1/1		Not Requ	uired	No	t Required		Not Requ	ired	No	ne		Not R	equired	N	Not Required			
SPACE COND	ITIONING S	YSTEMS	<u> </u>																
01	0:	2	03		04	05	06		07	08		09		10	11				
Name	System	1 Type	Heating U Name	- 1	Heating Equipment Count	Cooling Unit	Cooli Equipn	nent	Fan Name	Distributio Name	on	Require Thermost Type		tatus	Verified Existing Condition	Existi			
				+	Count		1 2001	<u>"</u>				1,700			Contaction	+			

Registration Number: 424-P010319551A-000-000-0000000-0000	Registration Date/Time: 12/18/2024 13:35	HERS Provider: CHEERS
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	Schema Version: rev 20220901	

Project Name: Re	esidential Build	ing			Calculation Date/Time: 2024-12-18T13:29:24-08:00									
Calculation Desc	ription: Title 24	4 Analysis												
DPAQUE SURFACE	S													
01	02	03	04	05	06	07	08	09	10	11				
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft ²)	Window and Door Area (ft2)	Tilt (deg)	Wall Exceptions	Status	Verified Existing Condition				
Front Wall	Zone 1	R-19 Wall	135	Front	477	196	90	none	Existing	No				
Left Wall	Zone 1	R-19 Wall	225	Left	374	50	90	none	Existing	No				
Rear Wall	Zone 1	R-19 Wall	315	Back	363	171	90	none	Existing	No				
Right Wall	Zone 1	R-19 Wall	45	Right	216	18	90	none	Existing	No				
Front Wall 2	Zone 2	R-15 Wall	135	Front	450	38	90	none	Altered	No				
Left Wall 2	Zone 2	R-19 Wall	225	Left	240	24	90	none	Existing	No				
Rear Wall 2	Zone 2	R-15 Wall	315	Back	476	88	90	none	Altered	No				
Right Wall 2	Zone 2	R-15 Wall	45	Right	236	18	90	none	Altered	No				
Roof	Zone 1	R-38 Roof Attic	n/a	n/a	1662	n/a	n/a		Altered	No				
Roof 2	Zone 2	R-38 Roof Attic	n/a	n/a	1438	n/a	n/a		Altered	No				
		P 22 Floor No												

****** WRITTEN DIMENSIONS ON THESE DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY, AND BE RESPONSIBLE FOR ALL DIMENSIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THE DRAWINGS. *******

HVAC Fan 1

01	02	03	04	05	06	07	08	09	10
Name	Construction	Туре	Type Roof Rise (x in 12)		Roof Emittance	Radiant Barrier	Cool Roof	Status	Verified Existing Condition
Attic Zone 1	Attic RoofZone 1	Ventilated	0	0.1	0.85	Yes	No	Existing	No
Attic Zone 2	Attic RoofZone 2	Ventilated	4	0.1	0.85	Yes	No	Existing	No

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	
Name	Туре	Surface	Orientatio n	Azimuth	Width (ft)	Heigh t (ft)	Mult.	Area (ft²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading	Status	Verified Existing Condition	
Window	Window	Front Wall Front 135 1 156 0.2 NFRC 0.23				0.23	NFRC	Bug Screen Existing No								
Registration N	umber: 424-	-P010319551A-0	000-000-0000	000-0000			Re	gistratio	on Date/Time	e: 12/18/202	4 13:35	HEF	RS Provider: CH	EERS		

Registration Number: 424-P010319551A-000-000-0000000-0000	Registration Date/Time: 12/18/2024 13:35	HERS Provider: CHEERS
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Project Nam			Building tle 24 Analysi	c			Calculation Date/Time: 2024-12-18T13:29:24-08:00 (Page 8 Input File Name: Building1.ribd22x																			
HVAC - HEATI										IIIput	THE IVE	aille. Du	illulligi.ill	DUZZX	<u> </u>											
HVAC - HEATI					02												_									
	01				02		_			03		04					05									
	Name System				Type Number of Units					Heating Efficiency				_	Heating Unit Bran											
Heating Component 1			1		Elect	ric			1			HSPF -					n/a									
HVAC - COOL	ING UN	NIT TYPES	<u> </u>					\vdash					+	-						-						
01			02	03		T	04		T	05		06		07		08			09							
Name		Syst	tem Type	Numb	er of Ur	nits	Efficien	cy Met	ric	Efficiency EER/EER2/CEE	R		ficiency Zon		Zonally Controlled		Zonally Controlled		Zonally Controlled		Zonally Controlled		ulit-sp		HER	; '
Cooling Compone		Centi	ral split AC		1		EER2	/SEER2		11.7		14	14		Not Zonal		ngle Sp	eed	Co 1							
HVAC - DISTR	IRLITIO	N SYSTE	MS			-		44	Ш		ш									_						
01	1	02	03	04	05	06	07	08	09	10	:	11	12	П	13	14	ı	15		-						
				Duct Ins. R-value			Duct Location		e Area				HERS			Verified		Existing								
Name	1	Гуре	Design Type	Suppl y	Retur n	Suppl	Retur n	Suppl	Retur n	- Bypass Duct	Duct I	Leakage	Verificat		Status	Existi Condi	_	Distribu syste								
Air Distribution System 1	970000000000000000000000000000000000000	onditio d attic	Non- Verified	R-8	R-8	Atti c	Atti c	n/a	n/a	No Bypass Duct	(r	sting not cified)	Air Distribution System 1-hers-dist		Existing	No)									
	•		!	•	•		•		•	•	•									_						
HVAC - FAN S	YSTEM	Self.							22000					100000					NAME OF THE PARTY	_						
			01			_			02			03					04									
Name									Type			Fan Power (Watts/CFM)							Name							

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HVAC Fan

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HVAC Fan 1-hers-fan

10. DATE REVISIONS

RESIDENCE

