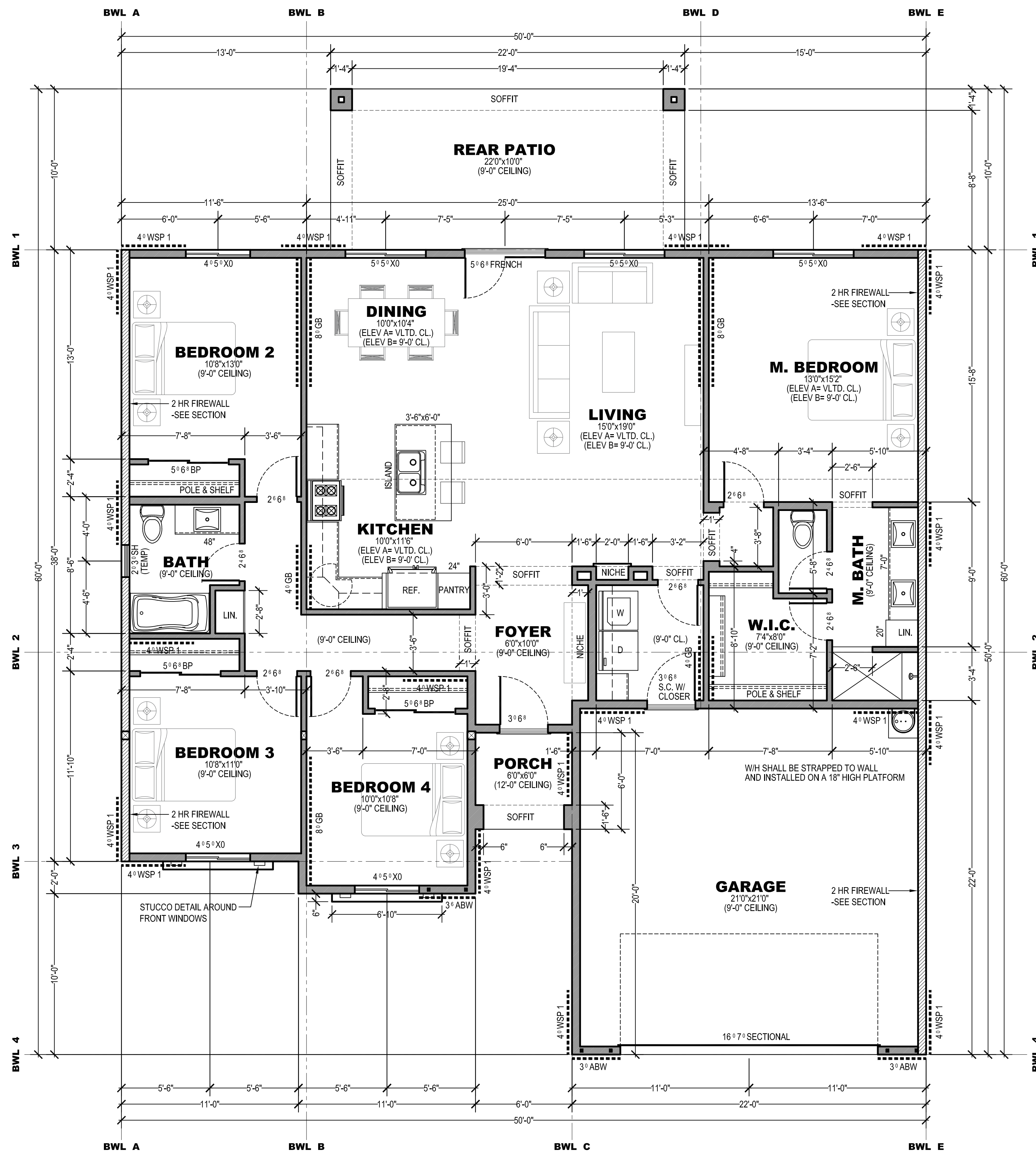


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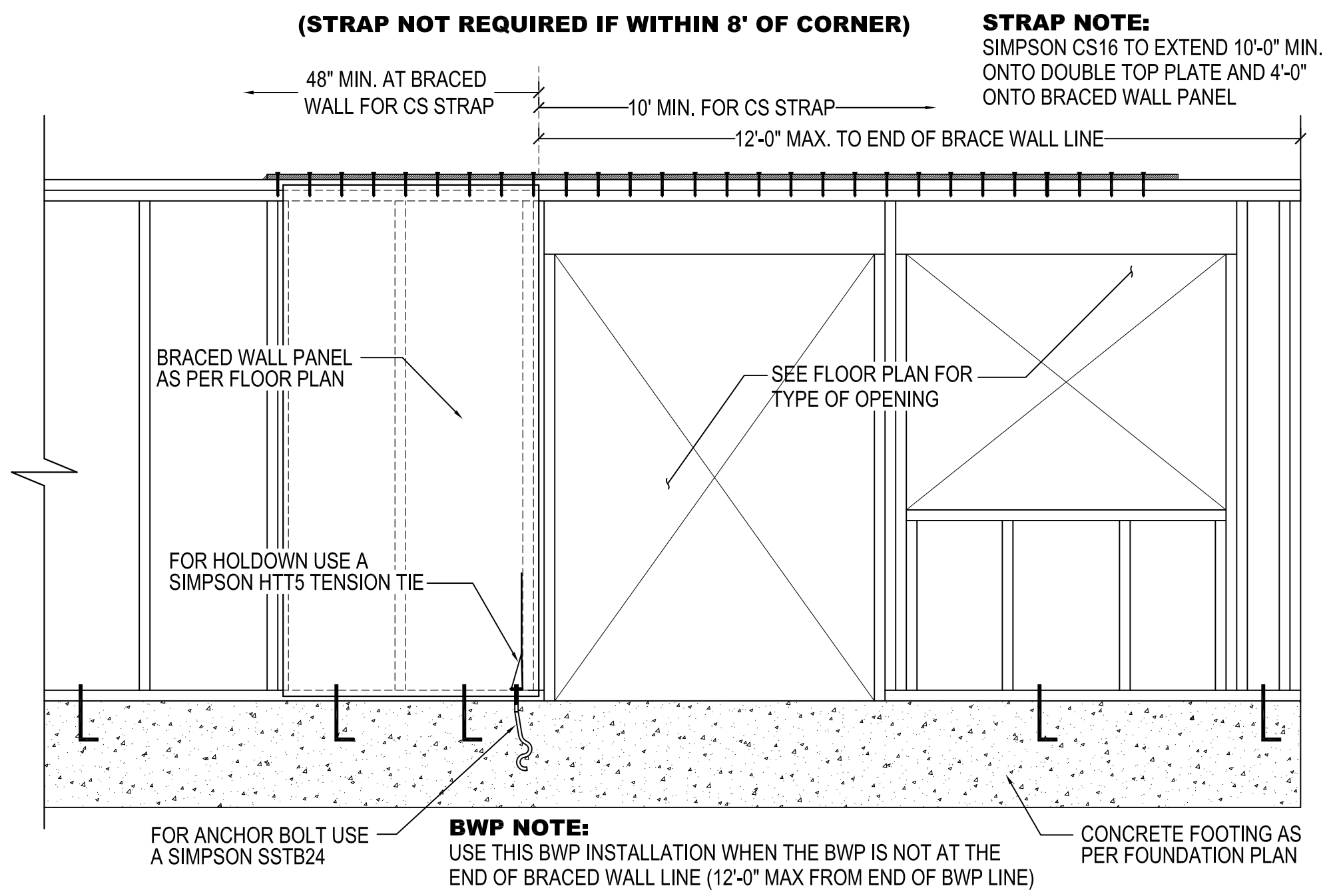
FLOOR PLAN
SCALE: 1/4" = 1'-0"

SQUARE FOOTAGE	
LIVING AREA	1,654 SF
GARAGE	484 SF
REAR PATIO	220 SF
PORCH	36 SF
TOTAL LIVING AREA	1,654 SF
TOTAL ROOF COVERAGE	2,394 SF

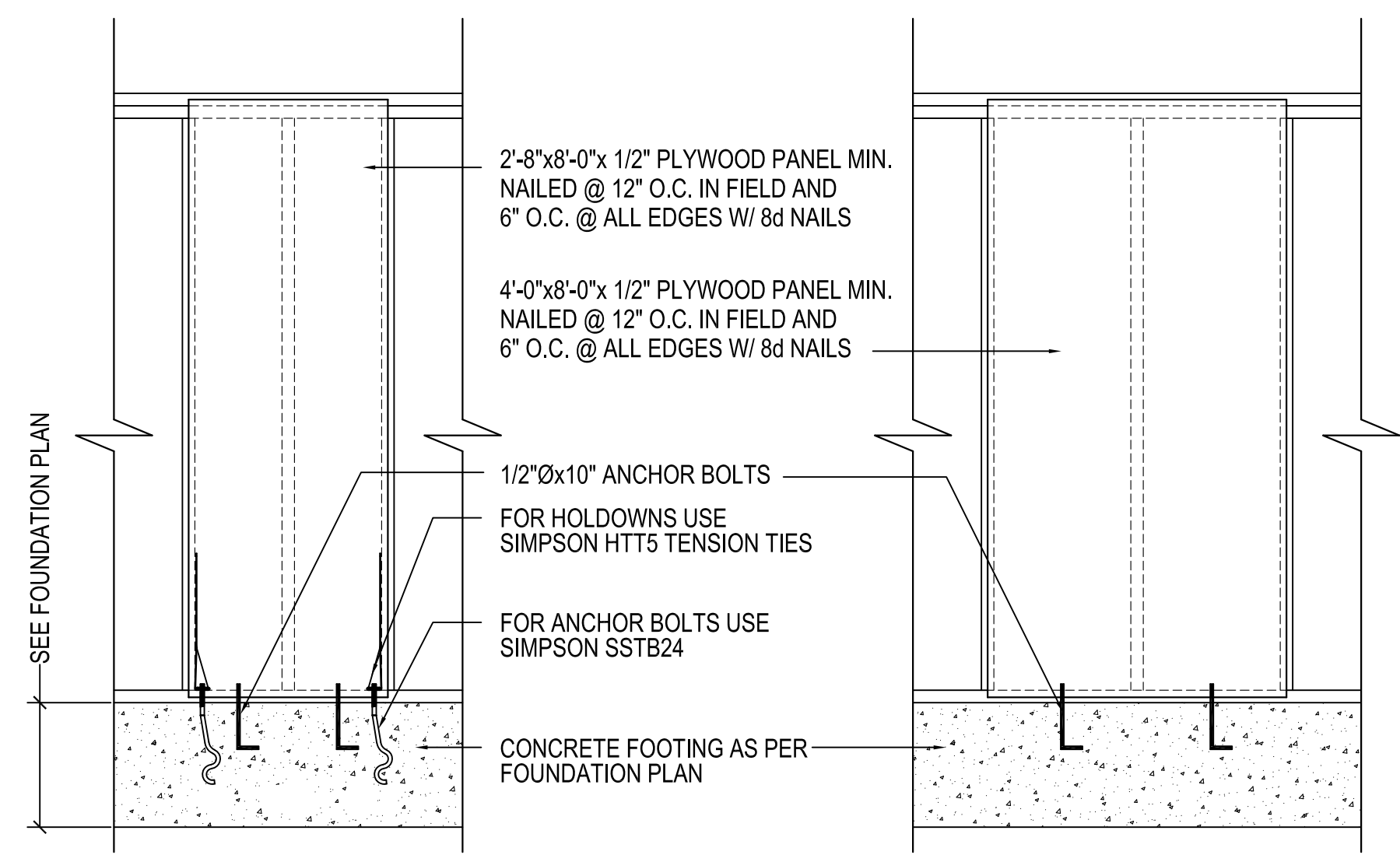
- GENERAL NOTES**
- ALL MATERIALS, PAINT AND FINISHES SHALL BE APPROVED BY OWNER PRIOR TO CONSTRUCTION OR INSTALLATION.
 - PROVIDE MINIMUM CLEARANCE OF 24" IN FRONT OF AND 30" WIDTH FOR WATER CLOSETS.
 - FIXTURES WITH HOSE OUTLETS SHALL BE PROTECTED WITH APPROVED INTERNAL BACKFLOW PREVENTERS (VACUUM BREAKERS).
 - WATER HEATERS SHALL BE STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION.
 - ENTRY DOOR FROM GARAGE INTO HOUSE MUST BE FIRE RATED AND SELF CLOSING.
 - EXTERIOR DOORS TO HAVE THRESHOLD AND WEATHER STRIPPING
 - ATTIC ACCESS SHALL BE 22"x30" MINIMUM
 - ALL EGRESS DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

BWP LEGEND/ NOTES	
WSP1:	SEE DETAIL ON SHEET 1 48" MIN. X 3/8" MIN. PLYWOOD PANEL NAILED W/ 8d NAILS @ 6" O.C. AT ALL EDGES AND 12" O.C. ON FIELD
WSP2:	SEE DETAIL ON SHEET 1 (INSTALL BWP 12" MAX. FROM END OF BRACED WALL LINE) 48" MIN. X 3/8" MIN. PLYWOOD PANEL NAILED W/ 8d NAILS @ 6" O.C. AT ALL EDGES AND 12" O.C. ON FIELD
GB:	48"x12" GYPSUM BOARD ON EACH SIDE OR 8" ON ONE SIDE W/ ALL EDGES BLOCKED AND NAILED @ 7" O.C. ON FIELD AND EDGES.
ABW:	SEE DETAIL ON SHEET 1 32" MIN. X 3/8" MIN. PLYWOOD PANEL NAILED W/ 8d NAILS @ 6" O.C. AT EDGES AND 12" O.C. ON FIELD

NOTE: INTERIOR BRACED WALL PANELS WHEN NOT SUPPORTED BY A CONTINUOUS FOUNDATION SHALL BE ATTACHED TO THE CONCRETE SLAB ON THE GROUND USING 1/2" DIAMETER ANCHOR OR EXPANSION BOLTS SPACED AT NOT MORE THAN 6" O.C., OR AN EQUIVALENT METHOD SUCH AS APPROVED PNEUMATIC ANCHOR PINS AS PER MANUFACTURER REQUIREMENTS. CUT NAILS OR ADHESIVES SHALL NOT BE PERMITTED.

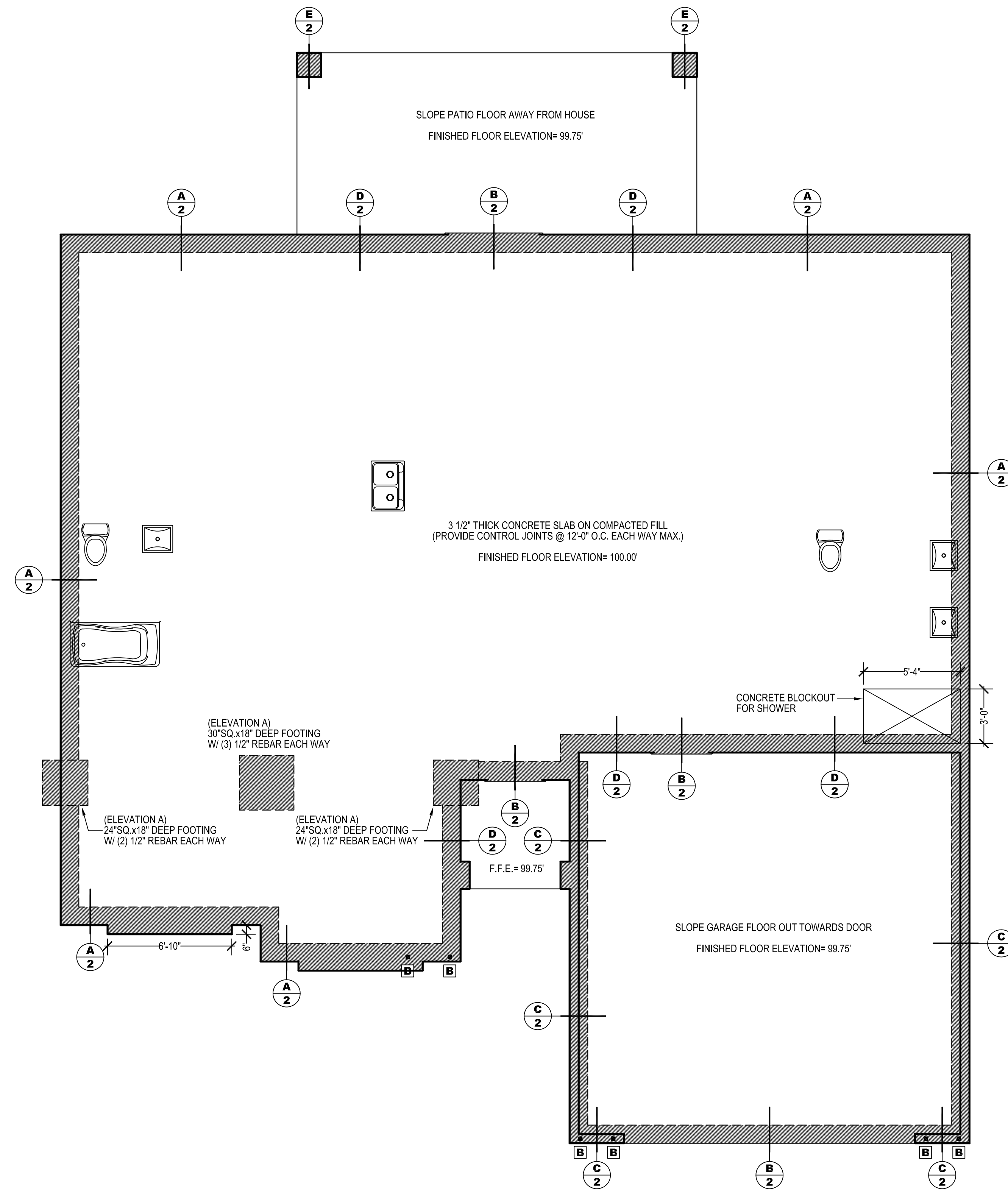


WSP2 DETAILS
SCALE: 1/2" = 1'-0"



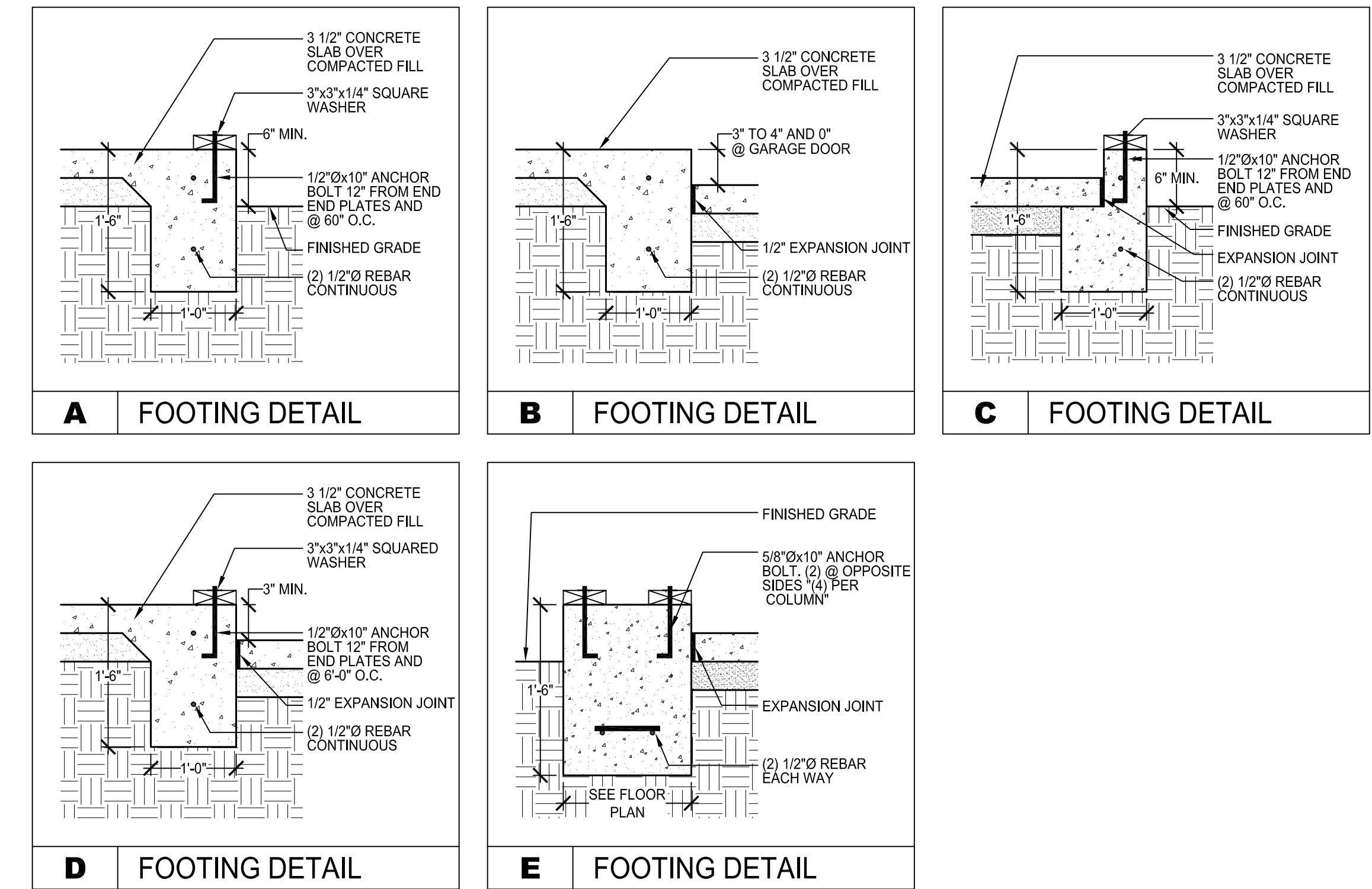
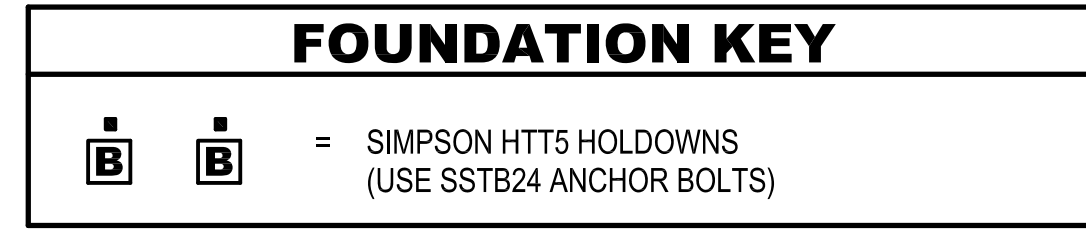
ABW & WSP1 DETAILS
SCALE: 1/2" = 1'-0"

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

- FOUNDATION NOTES**
- ALL EXTERIOR FOOTINGS SHALL BE PLACED AT LEAST 12" BELOW THE UNDISTURBED GROUND SURFACE OR 12" INTO ENGINEERED PAD.
 - ENGINEERED FILL BUILDING PADS SHALL BE PLACED IN 12" LIFTS, COMPACTED TO NOT LESS THAN 95% MAXIMUM DENSITY, PER ASTM D698 OR D1557. THE BUILDING PADS SHALL EXTEND A MINIMUM OF 3' BEYOND THE FOOTPRINT OF THE BUILDING AT AN ELEVATION OF NOT LESS THAN 10" BELOW THE FINISHED FLOOR.
 - LOT SHALL BE GRADED SO AS TO DRAIN WATER AWAY FROM FOUNDATION WALLS. THE GRADE AWAY FROM THE FOUNDATION WALLS SHALL FALL A MINIMUM OF 6" WITHIN THE FIRST 10'-0" F.F. ELEVATION= 12" +2% ABOVE CURB GUTTER OR POINT OF DISCHARGE.
 - BOTTOM OF FOOTINGS SHALL BE CLEARED OF ALL LOOSE MATERIAL PRIOR TO CONCRETE PLACEMENT.
 - ALL STUMPS AND ROOTS SHALL BE REMOVED FROM THE SOIL TO A DEPTH OF AT LEAST 12" BELOW THE SURFACE IN THE AREA TO BE OCCUPIED BY THE STRUCTURE.
 - COLUMNS AND POSTS WHICH ARE SUBJECT TO WATER SPLASH SHALL BE SUPPORTED BY CONCRETE OR A METAL PEDESTAL PROJECTING AT LEAST 1" ABOVE FLOOR (OR PROVIDE APPROVED WOOD OF NATURAL RESISTANCE TO DECAY OR TREATED WOOD)
 - CONCRETE SLAB SHALL BE PROVIDED WITH CONTROL JOINTS AT 12'-0" O.C. MAXIMUM IN BOTH DIRECTIONS.
 - SILL PLATE ANCHOR BOLTS TO BE LOCATED WITHIN MIDDLE THIRD OF THE WIDTH OF THE PLATE.
 - GARAGE FLOOR SHALL SLOPE 1/8" PER FOOT TOWARDS DOOR.



FOOTING DETAILS
SCALE: 3/4" = 1'-0"

FOUNDATION PLAN
FOOTING DETAILS

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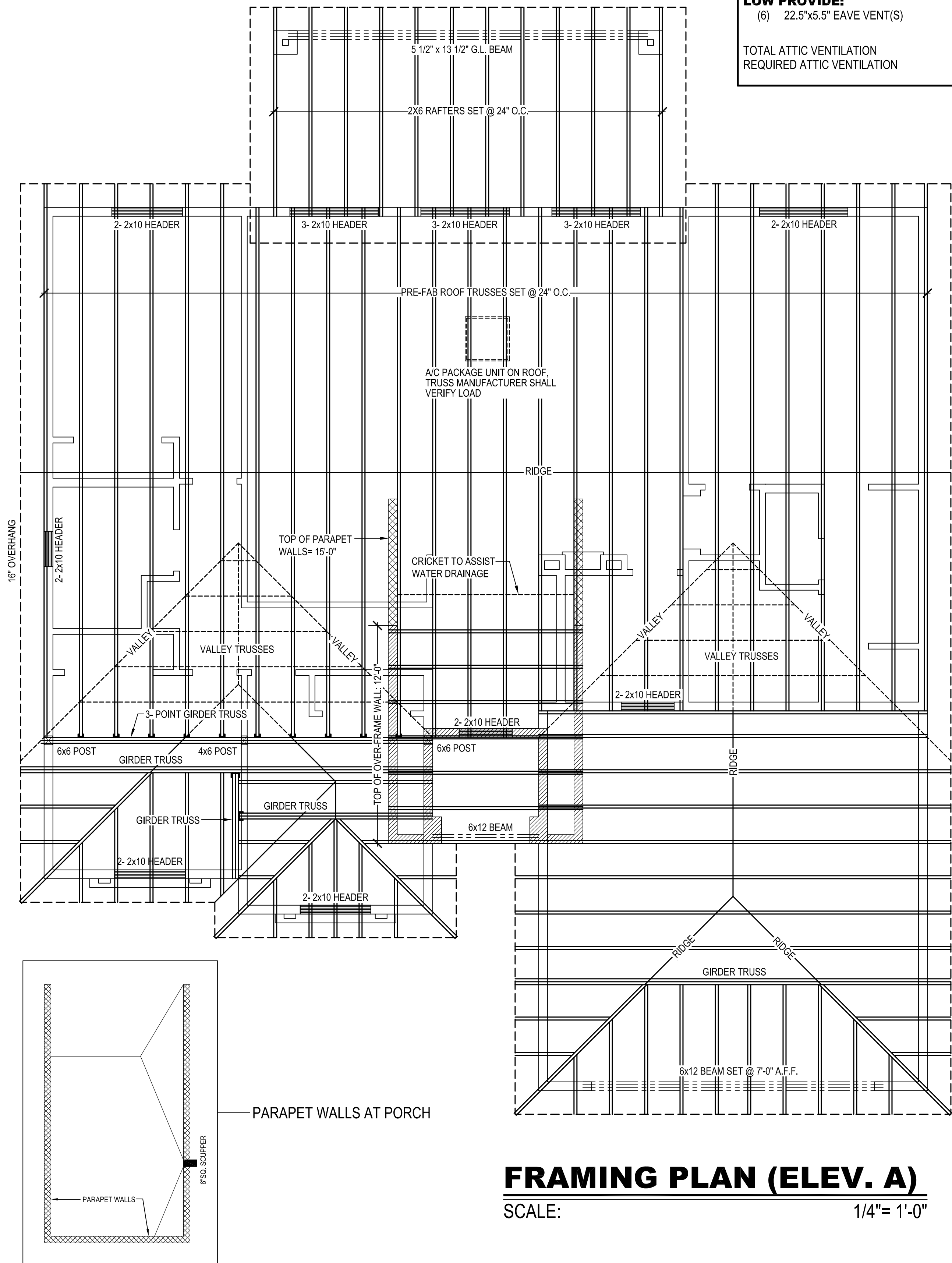
Drawn by: Juan Mireles
Checked by: Professional Home Designer
DATE: JUN
COMPLETED: 6-21-20

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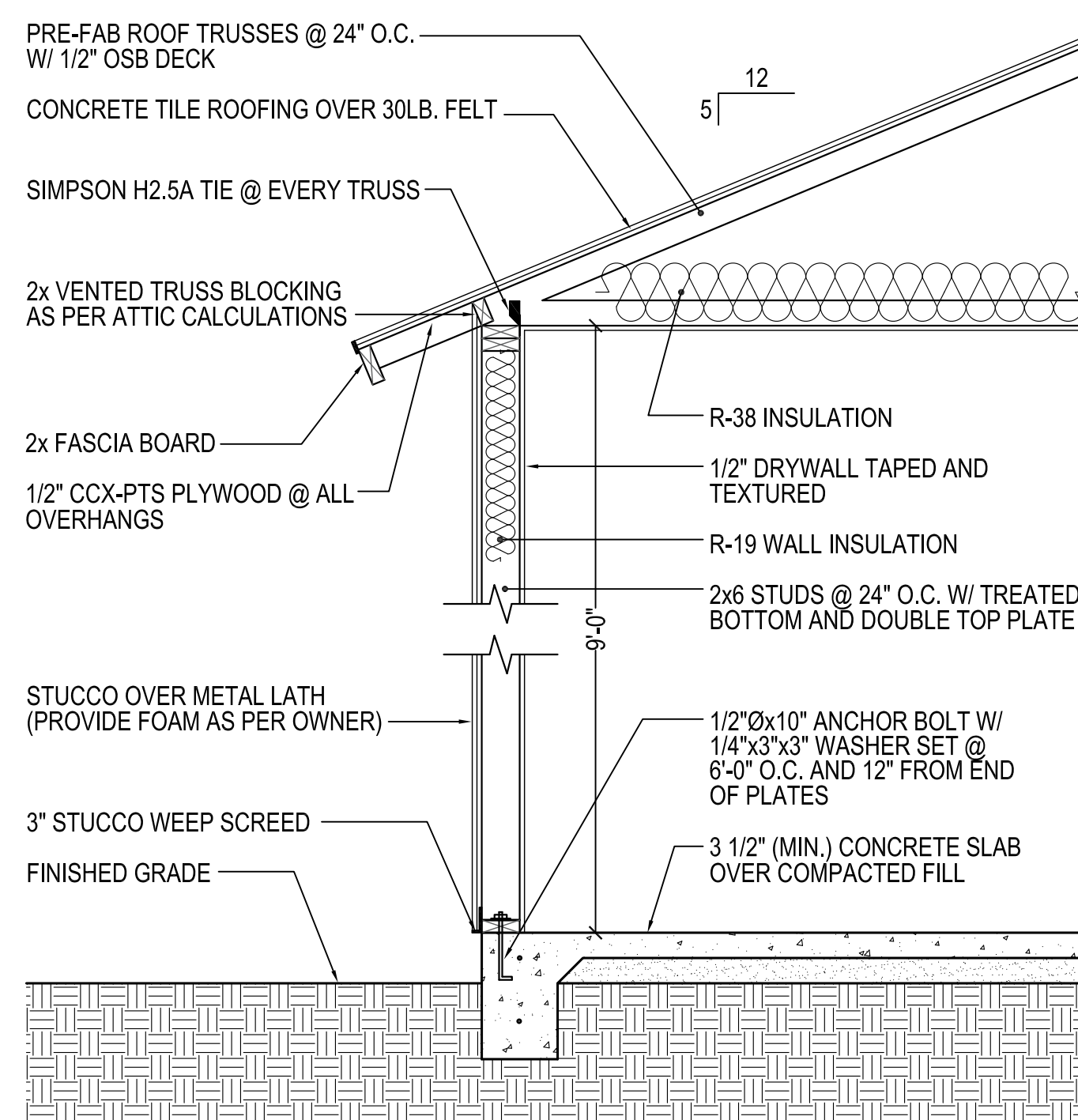
ATTIC VENTILATION	
TOTAL ATTIC AREA:	= 2,174.00 SF
REQUIRED AREA: (1SF/300SF) *1/2 HIGH/ 1/2 LOW"	= 7.24 SF
	= 1,042.56 SF
HIGH PROVIDE:	
(6) O'HAGIN HIGH-PROFILE MODEL S @97.50 SI EA.	= 585.60 SI
TOTAL ATTIC VENTILATION	= 585.60 SI
REQUIRED ATTIC VENTILATION	= 521.28 SI
LOW PROVIDE:	
(6) 22.5"x5.5" EAVE VENT(S) @123.75 SI EA.	= 742.50 SI
TOTAL ATTIC VENTILATION	= 742.50 SI
REQUIRED ATTIC VENTILATION	= 521.28 SI

- | FRAMING NOTES | |
|---------------|--|
| 1. | STUCCO 3" WEEP SCREED TO BE NAILED AROUND BASE 4" ABOVE FINISHED GRADE OR 2" ABOVE PAVED OR CONCRETE AREAS. |
| 2. | ALL EXTERIOR WALLS TO BE 2x6 STUDS AND INTERIOR TO BE 2x4 STUDS UNLESS OTHERWISE NOTED. |
| 3. | SILL PLATE ANCHOR BOLTS TO BE LOCATED WITHIN MIDDLE THIRD OF THE WIDTH OF THE PLATE. |
| 4. | OPENINGS GREATER THAN 6'-0" SHALL REFERENCE TABLE 602.7.5 FOR KING STUD REQUIREMENTS. |
| 5. | ROOF SHEATHING FASTENING SHALL BE 6" O.C. AT INTERMEDIATE SUPPORTS WITHIN 48" OF GABLE ENDS, ROOF EDGES AND RIDGES. |
| 6. | PROVIDE OUTRIGGERS AT 48" O.C. AT ALL GABLE END UNITS AS REQUIRED. |
| 7. | FLASHING SHALL BE PROVIDED AT ALL SLOPE CHANGES, RIDGES, VALLEYS AND ROOF CONNECTIONS AS REQUIRED. |
| 8. | VERIFY R.O. ON ALL WINDOWS BEFORE CONSTRUCTION. SIZES SHOWN ARE NOMINAL INDICATIONS ONLY. |
| 9. | ALL MATERIALS, PAINTS AND FINISHES SHALL BE APPROVED BY OWNER PRIOR TO CONSTRUCTION OR INSTALLATION. |
| 10. | GARAGE WALLS ADJOINING DWELLING SHALL BE COVERED W/ 1/2" GYPSUM BOARD. |
| 11. | ATTIC AREA SHALL BE ACCESSIBLE BY AN OPENING OF NOT LESS THAN 22"x30". IF FURNACE IN THE ATTIC, THE OPENING SHALL BE NOT LESS THAN 30"x30". PROVIDE A MINIMUM 30" CLEAR HEADROOM ABOVE THE ACCESS OPENING. |
| 12. | SHEAR WALL PANELS SHALL BE EXPOSED AT TIME OF INSPECTION. |
| 13. | A STAMPED SET OF CONSTRUCTION PLANS SHALL BE PRESENT AT JOB SITE AT ALL TIMES AND AVAILABLE TO THE BUILDING INSPECTOR. |
| 14. | PROVIDE COLLAR TIES AT 48" O.C. AND VALLEY PLATES FOR ALL OVER-FRAMING. |
| 15. | IN UNINSULATED WALLS, SEAL ANNULAR SPACE AROUND PIPES/ CABLES THAT PENETRATE THE TOP PLATE IN AN APPROVED MANNER TO MAINTAIN THE INTEGRITY OF THE ELEMENTS PENETRATED.(FOAM IS NOT ACCEPTABLE). |

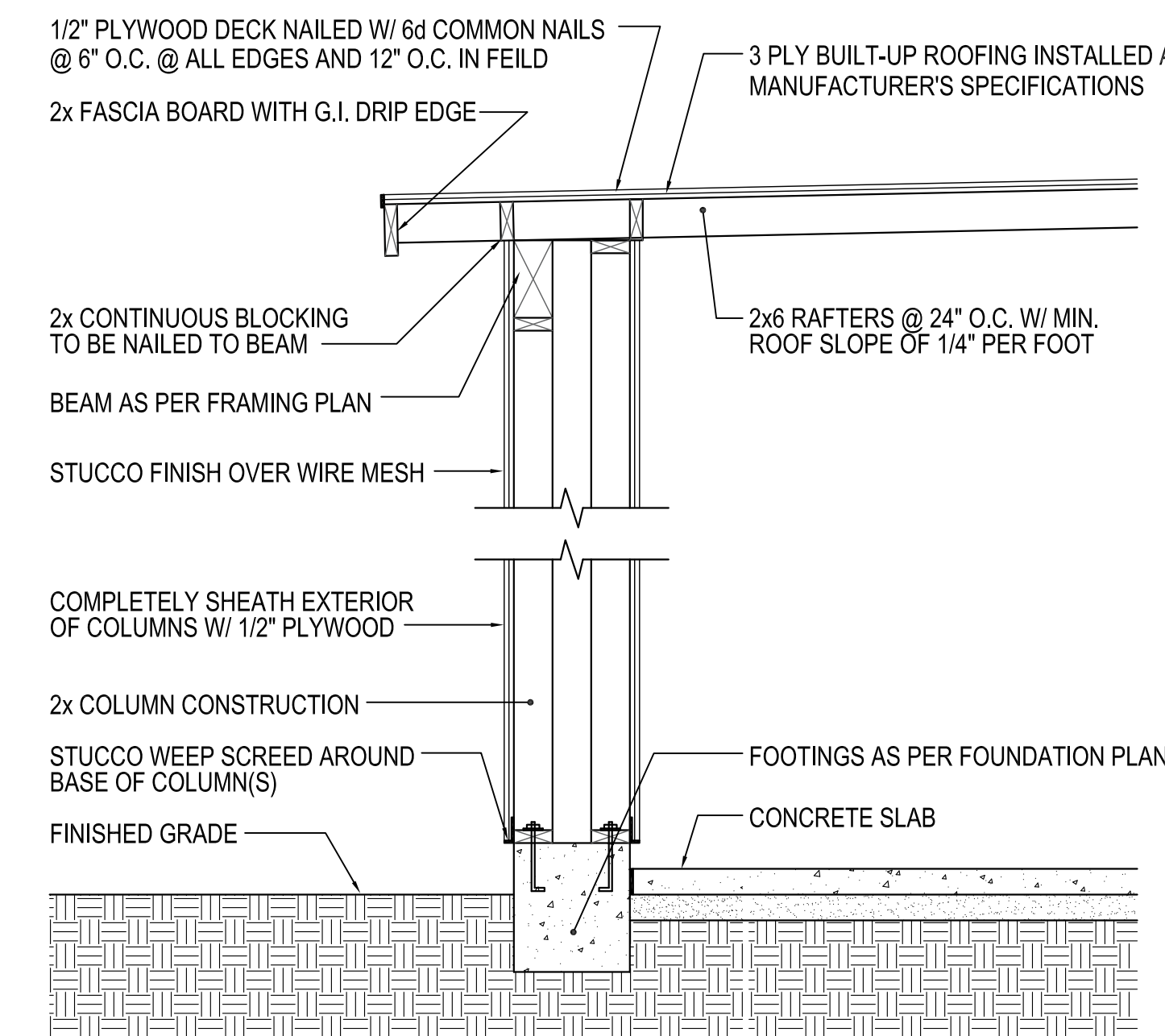
- | TRUSS NOTES | |
|-------------|--|
| 1. | TRUSS MANUFACTURER SHALL PROVIDE TRUSS CALCULATIONS WITH A/C LOADING WHERE APPLICABLE. |
| 2. | TRUSS MANUFACTURER SHALL PROVIDE TRUSS-TRUSS CONNECTION CALLOUTS. |



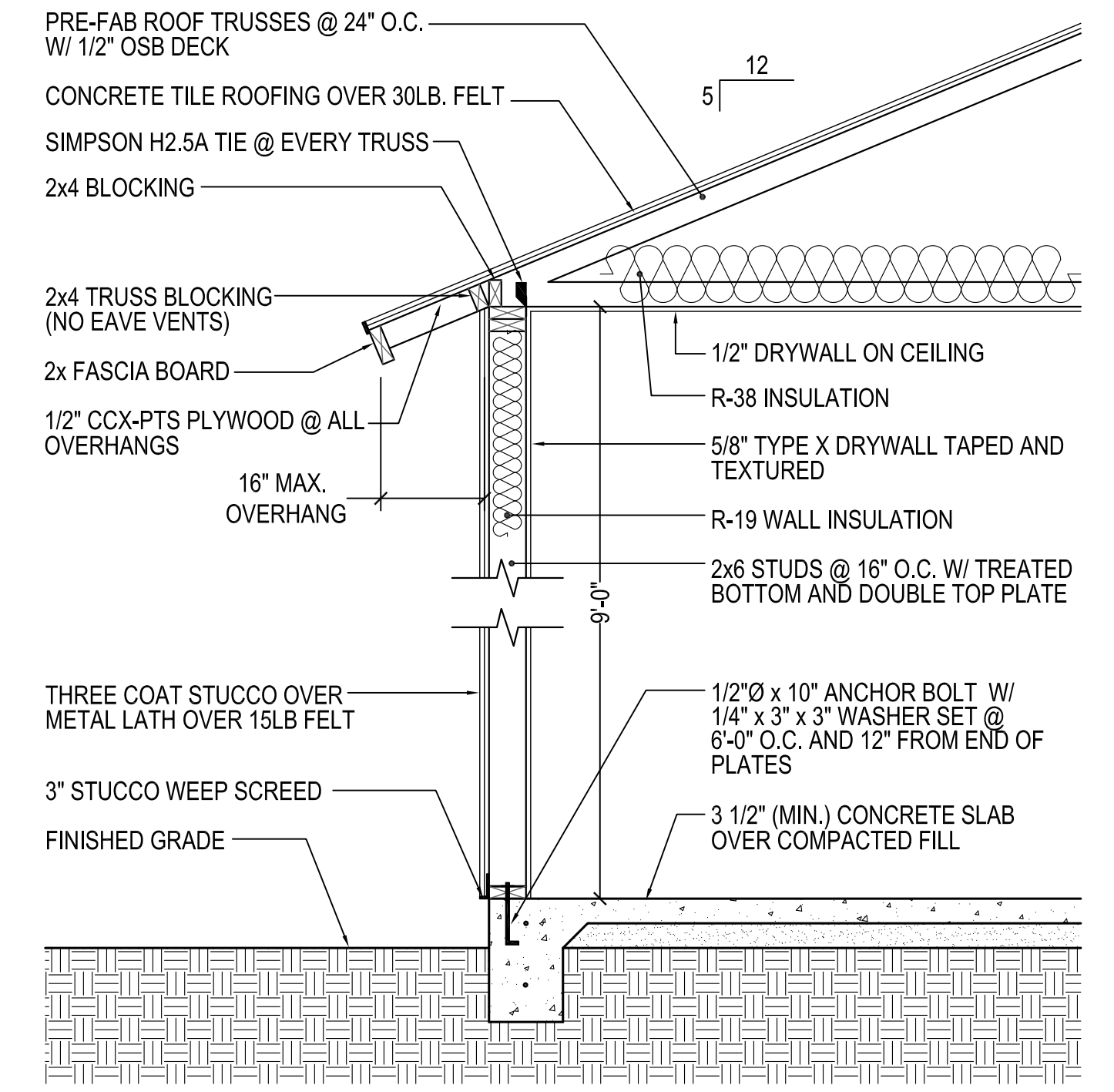
FRAMING PLAN (ELEV. A)
SCALE: 1/4" = 1'-0"



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

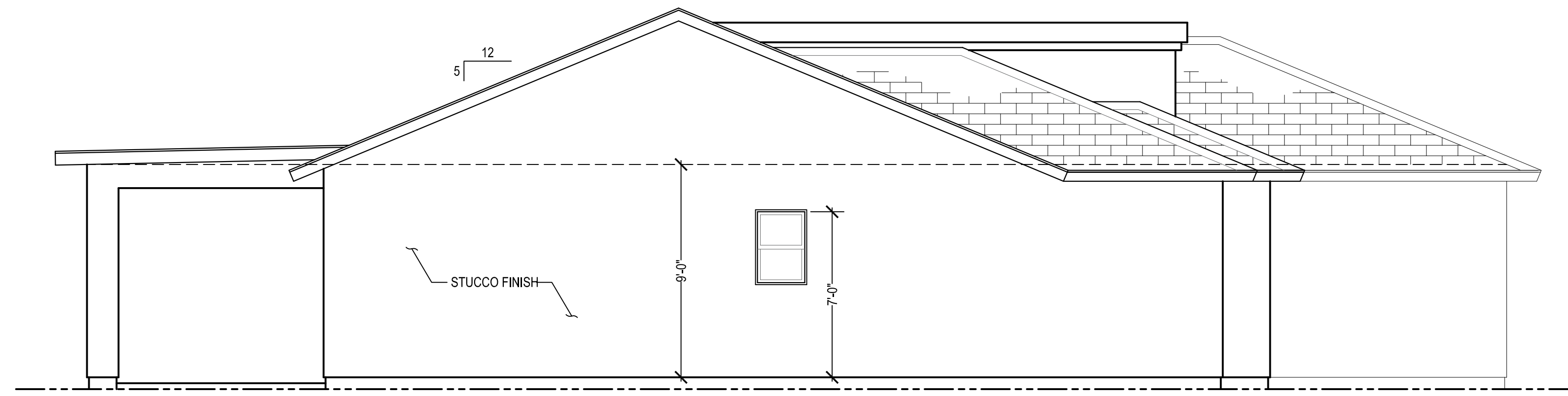


REAR PATIO SECTION
SCALE: 1/2" = 1'-0"



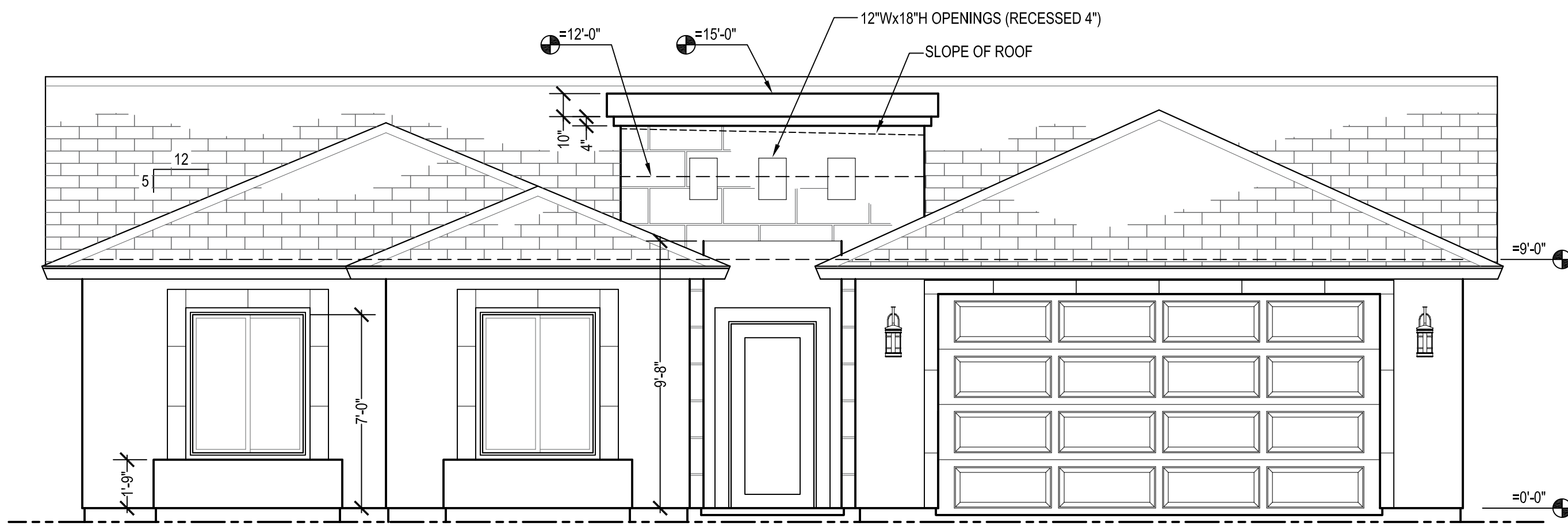
FIREWALL WALL SECTION
SCALE: 1/2" = 1'-0"

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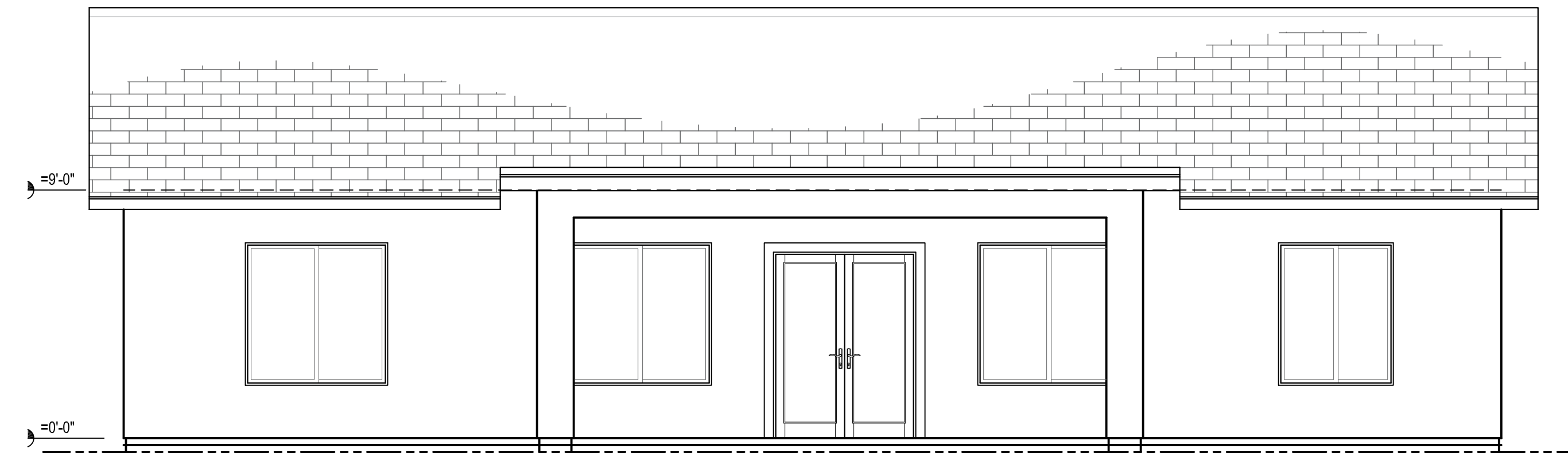
LEFT ELEVATION

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



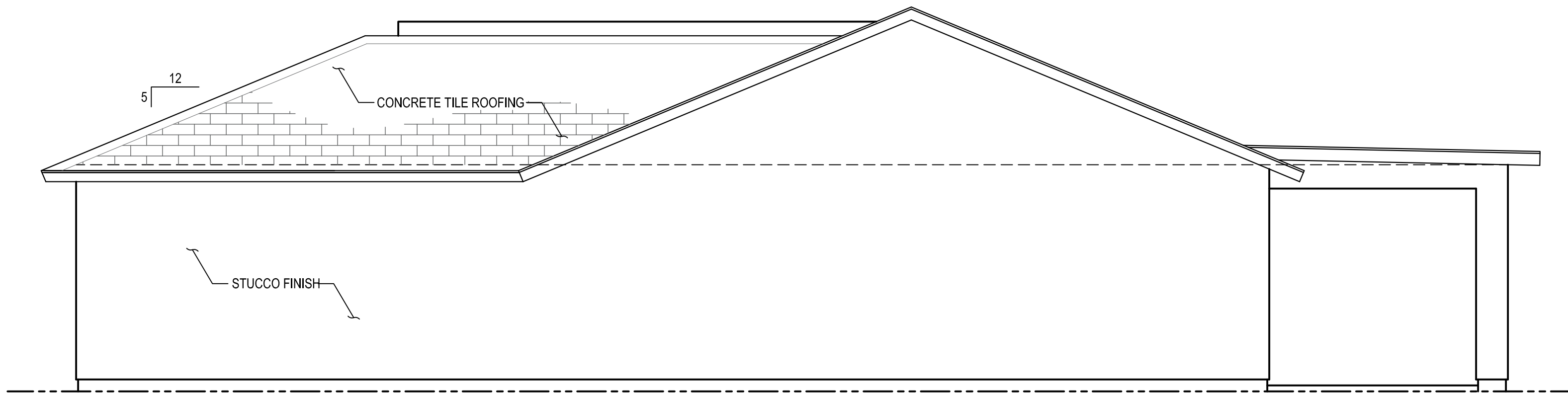
FRONT ELEVATION

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



REAR ELEVATION

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



RIGHT ELEVATION

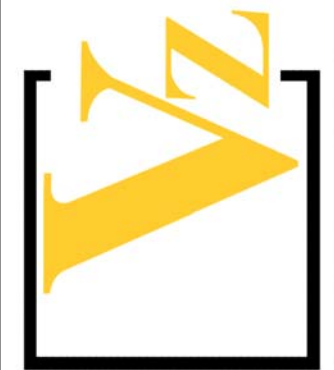
SCALE: 1/4" = 1'-0"

EXTERIOR ELEVATIONS (ELEVATION A)

VZ CONSTRUCTION
1381 N MAIN ST
SAN LUIS, AZ 85349

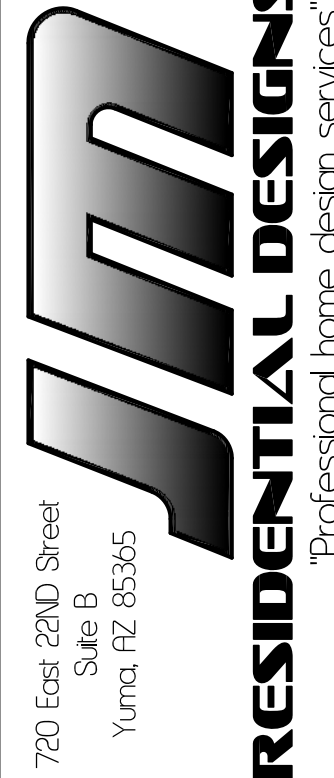
PHONE: (928) 941-8083

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CONSTRUCTION

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Suite B
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Cell: (928) 446-4068



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Drawn by: JIM
Checked by: JIM

Juan Mireles
Professional Home Designer

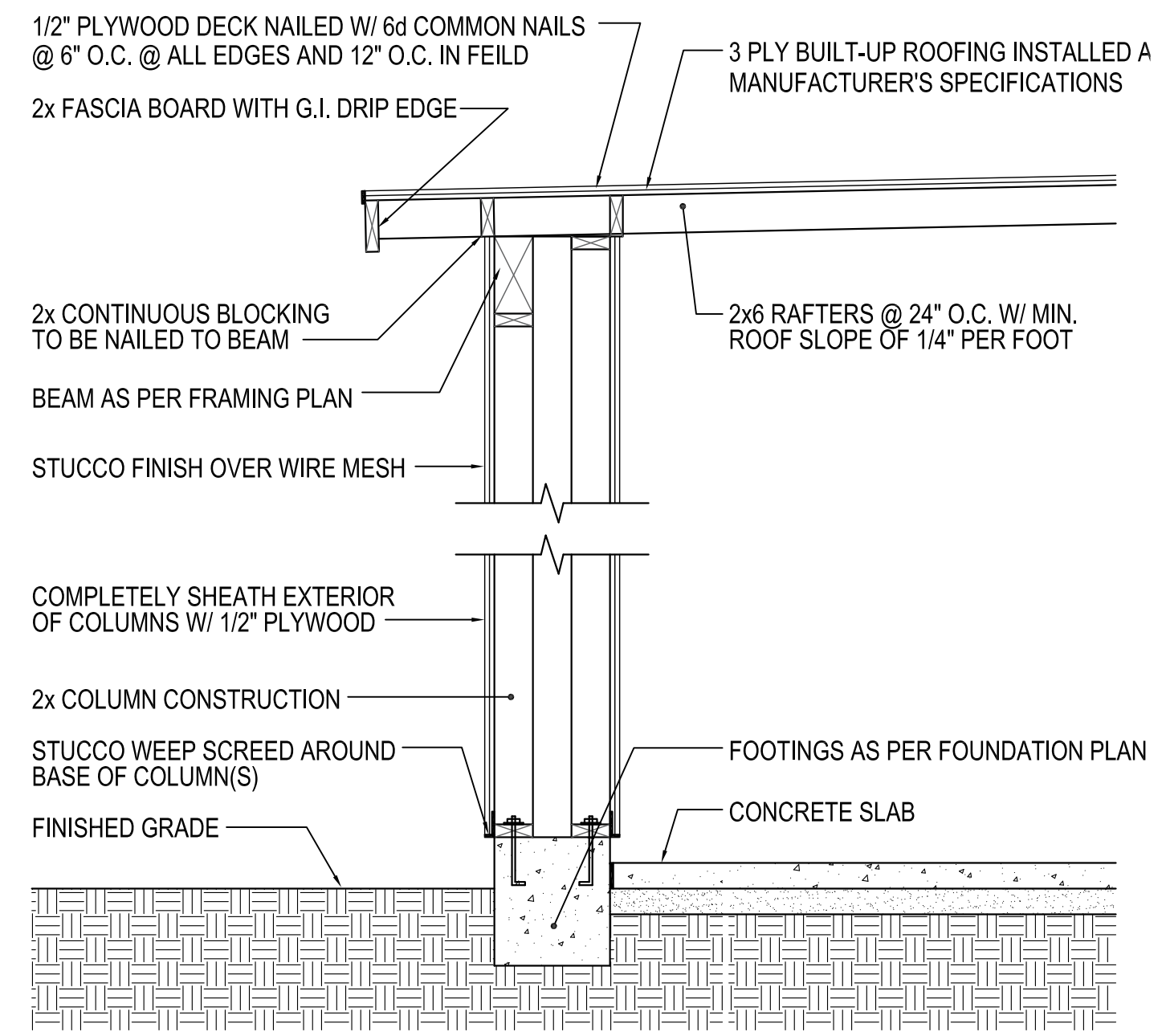
COMPLETED: 6-21-20

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ATTIC VENTILATION			
TOTAL ATTIC AREA:	=	2,174.00	SF
REQUIRED AREA: (1SF/150SF) "HIGH ONLY"	=	14.49	SF
	=	2,086.56	SI
PROVIDE:			
(7) 18" SQ. VENT(S)	@	324.00	SI EA.
	=	2,268.00	SI
TOTAL ATTIC VENTILATION	=	2,268.00	SI
REQUIRED ATTIC VENTILATION	=	2,086.56	SI

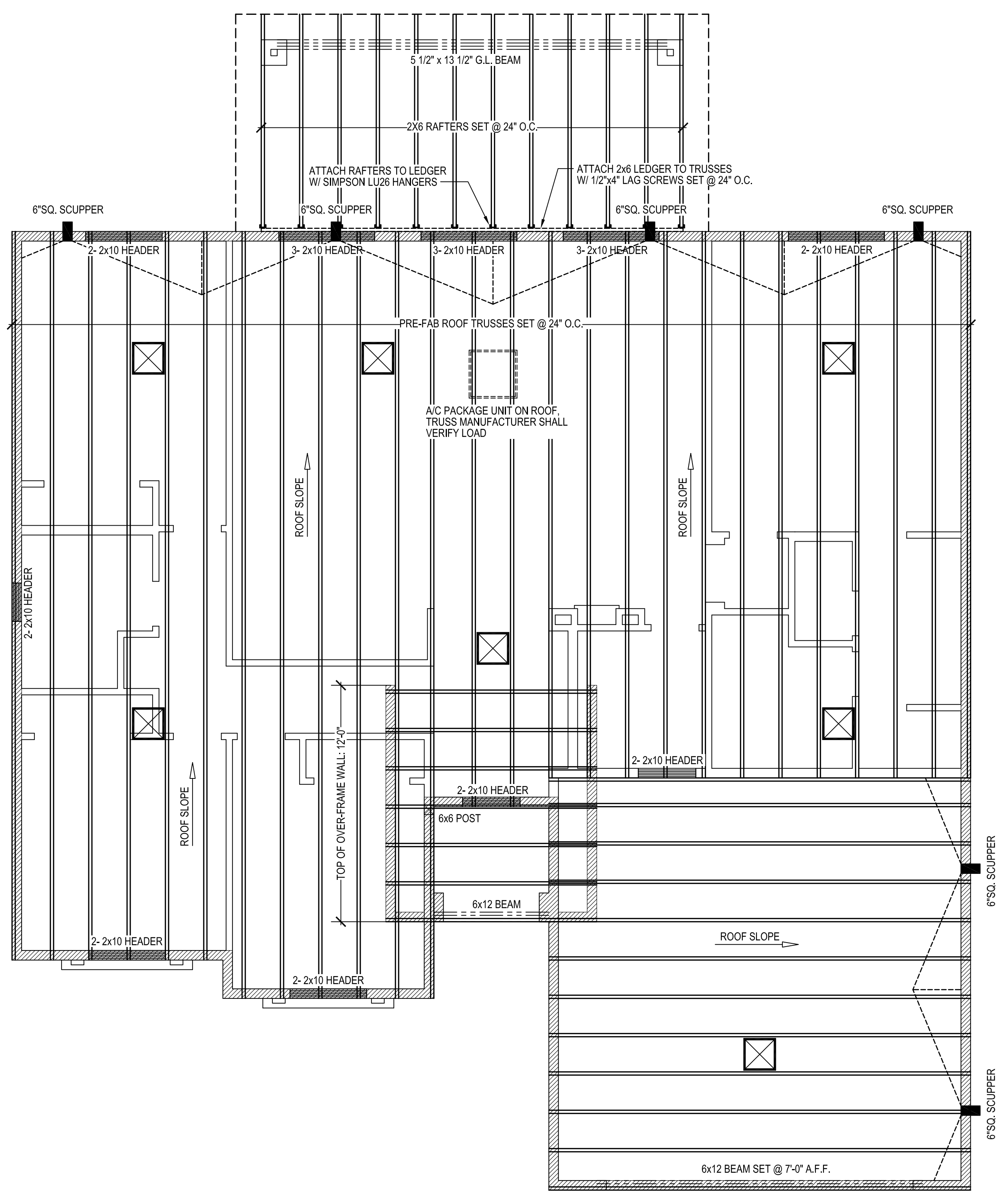
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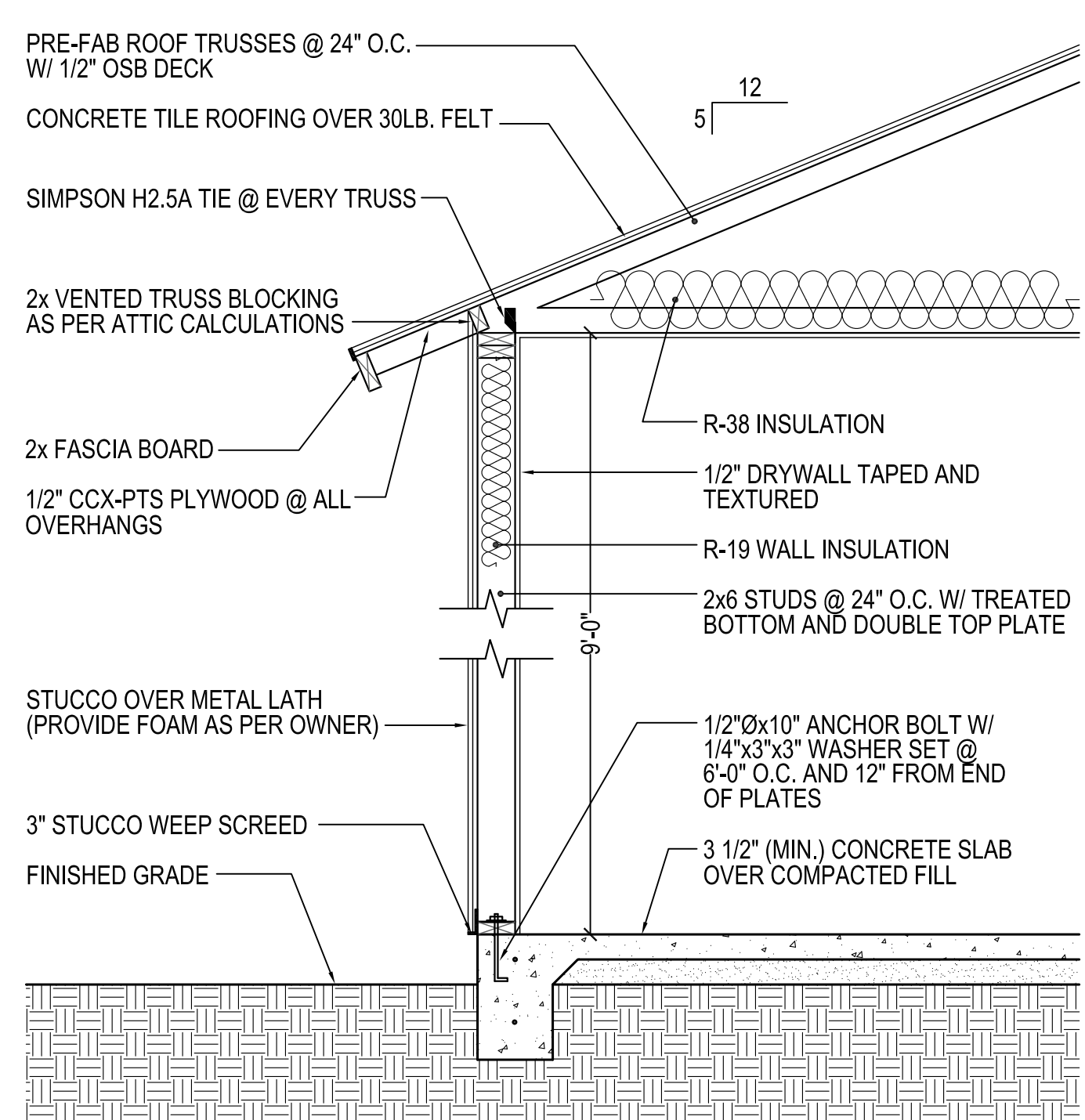
REAR PATIO SECTION

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



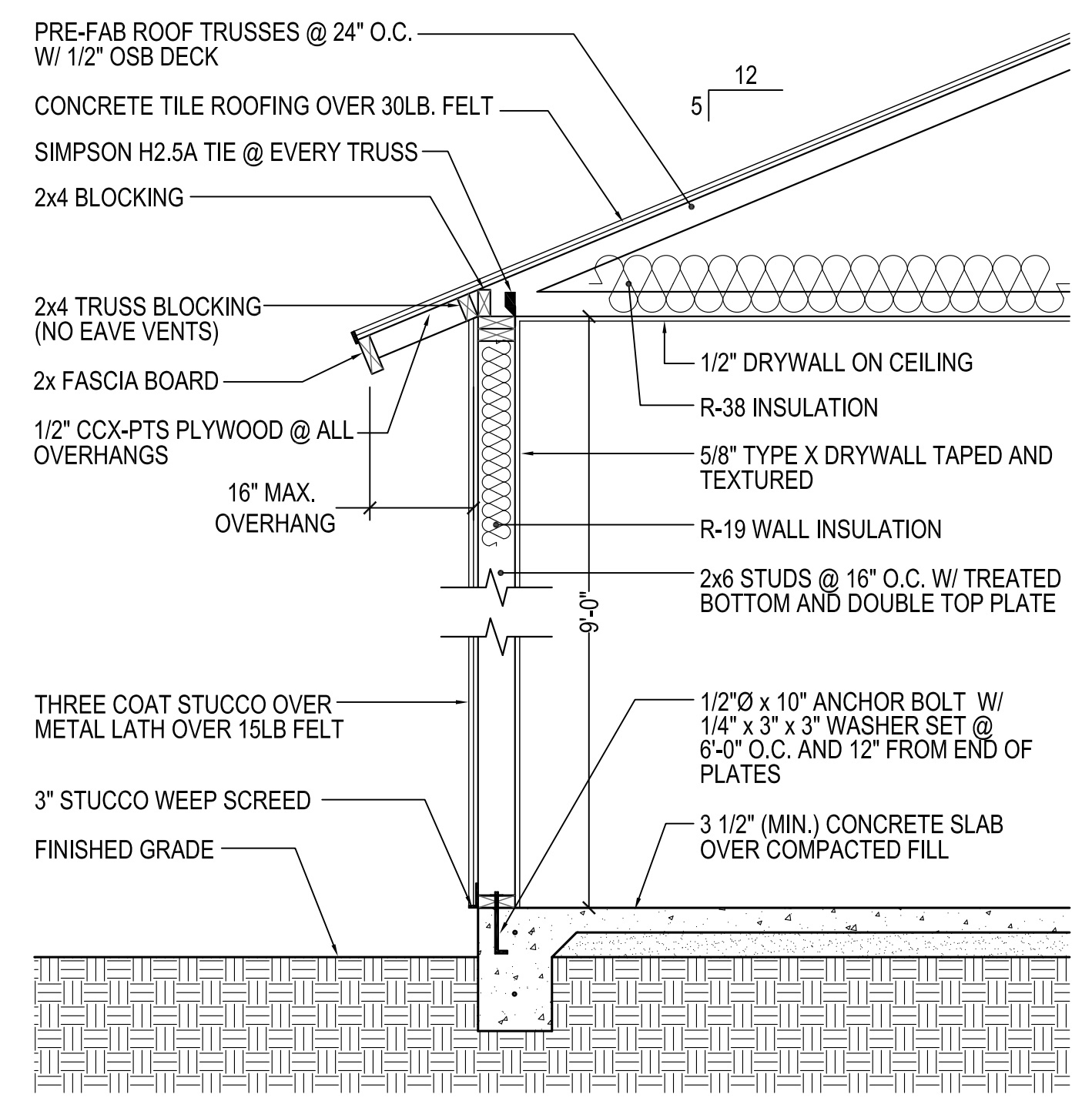
FRAMING PLAN (ELEV. B)

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



WALL SECTION

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

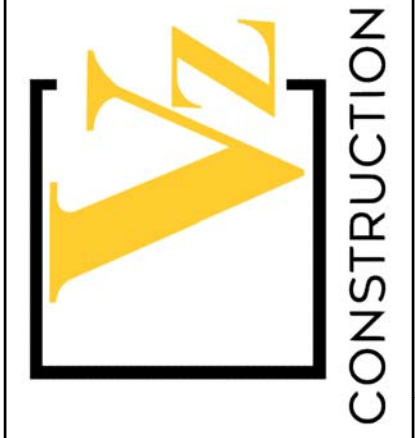


FIREWALL WALL SECTION

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

FRAMING PLAN (ELEVATION A)
WALL SECTIONS

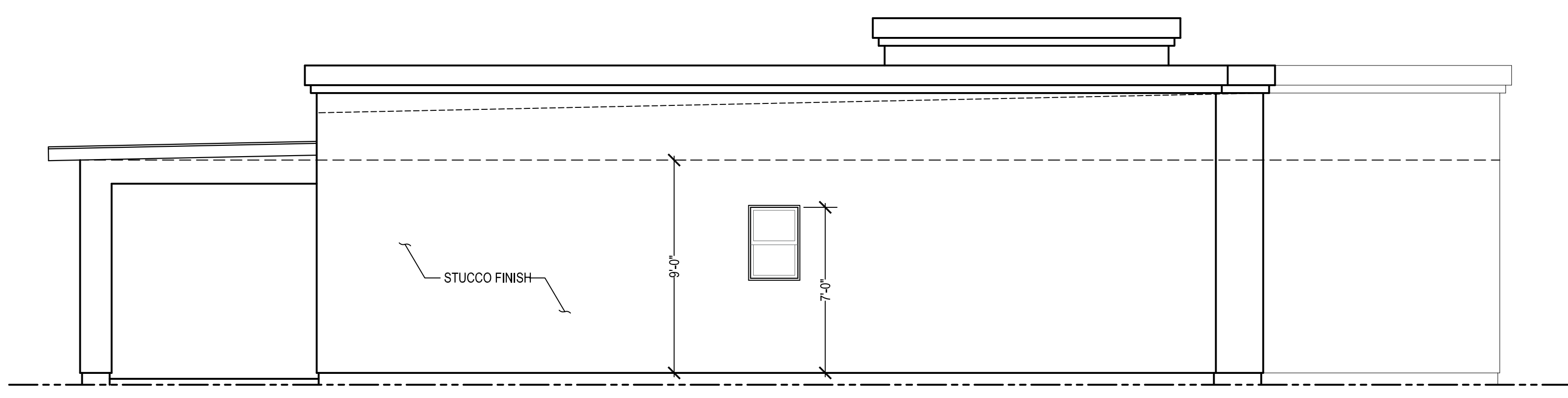
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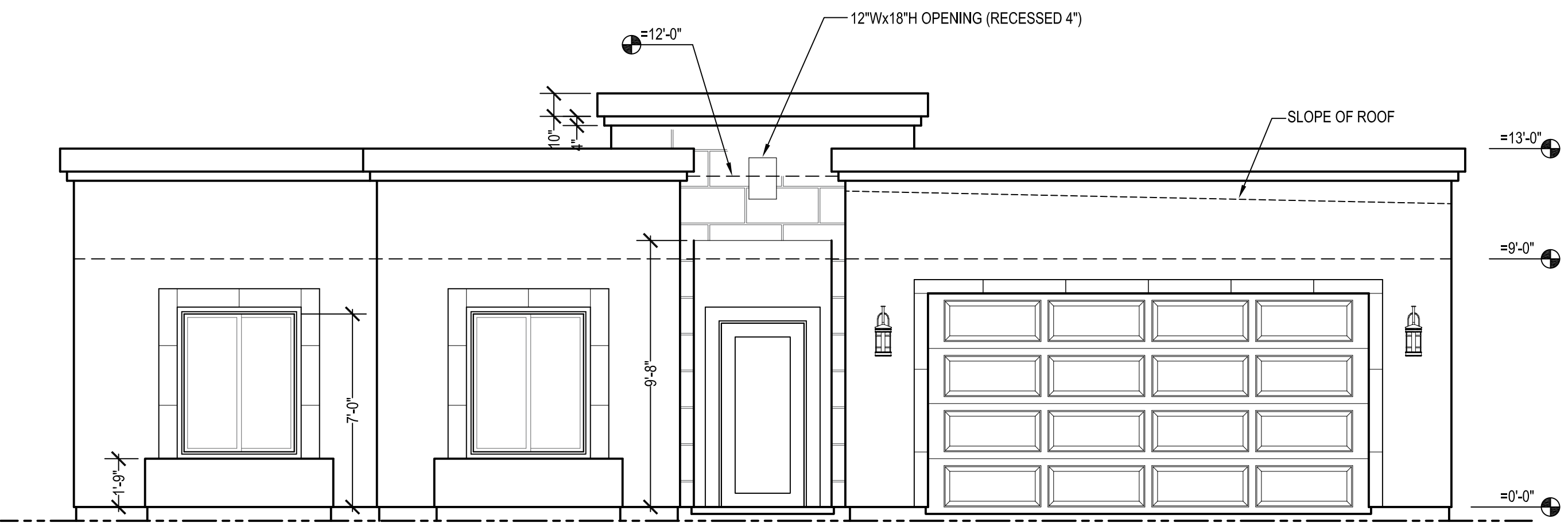
Drawn by: JM
Checked by: JM
Professional Home Designer
Juan Mireles
Professional Home Designer
6-21-20

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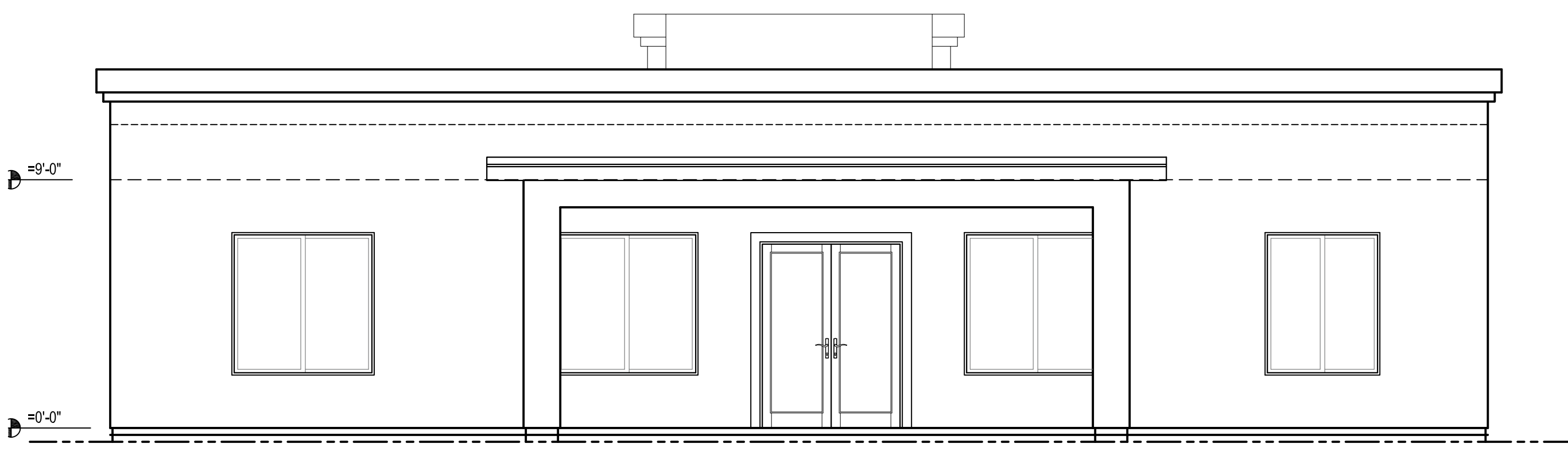
LEFT ELEVATION

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



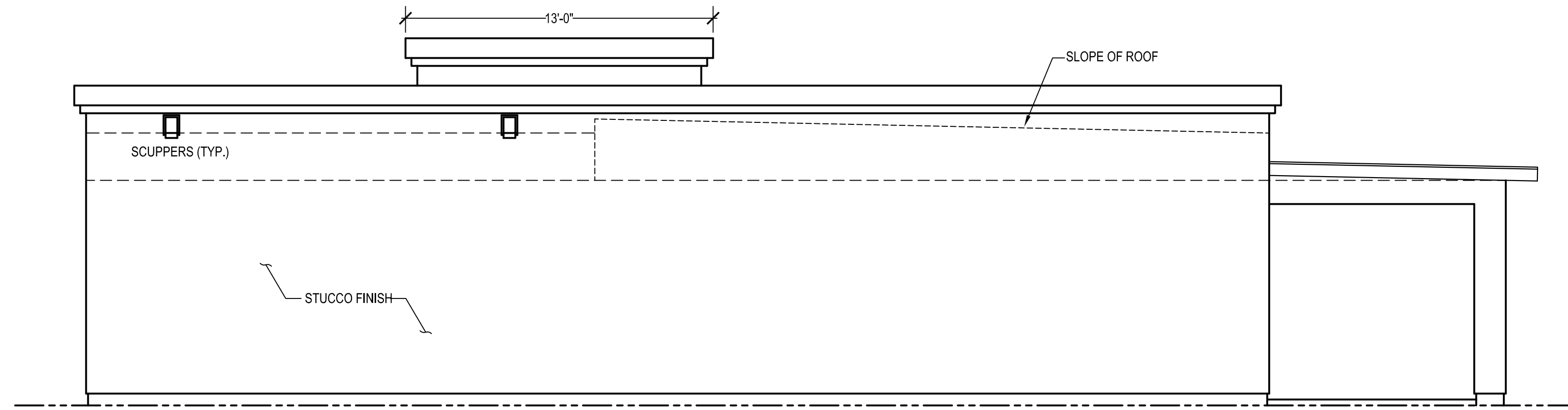
FRONT ELEVATION

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



REAR ELEVATION

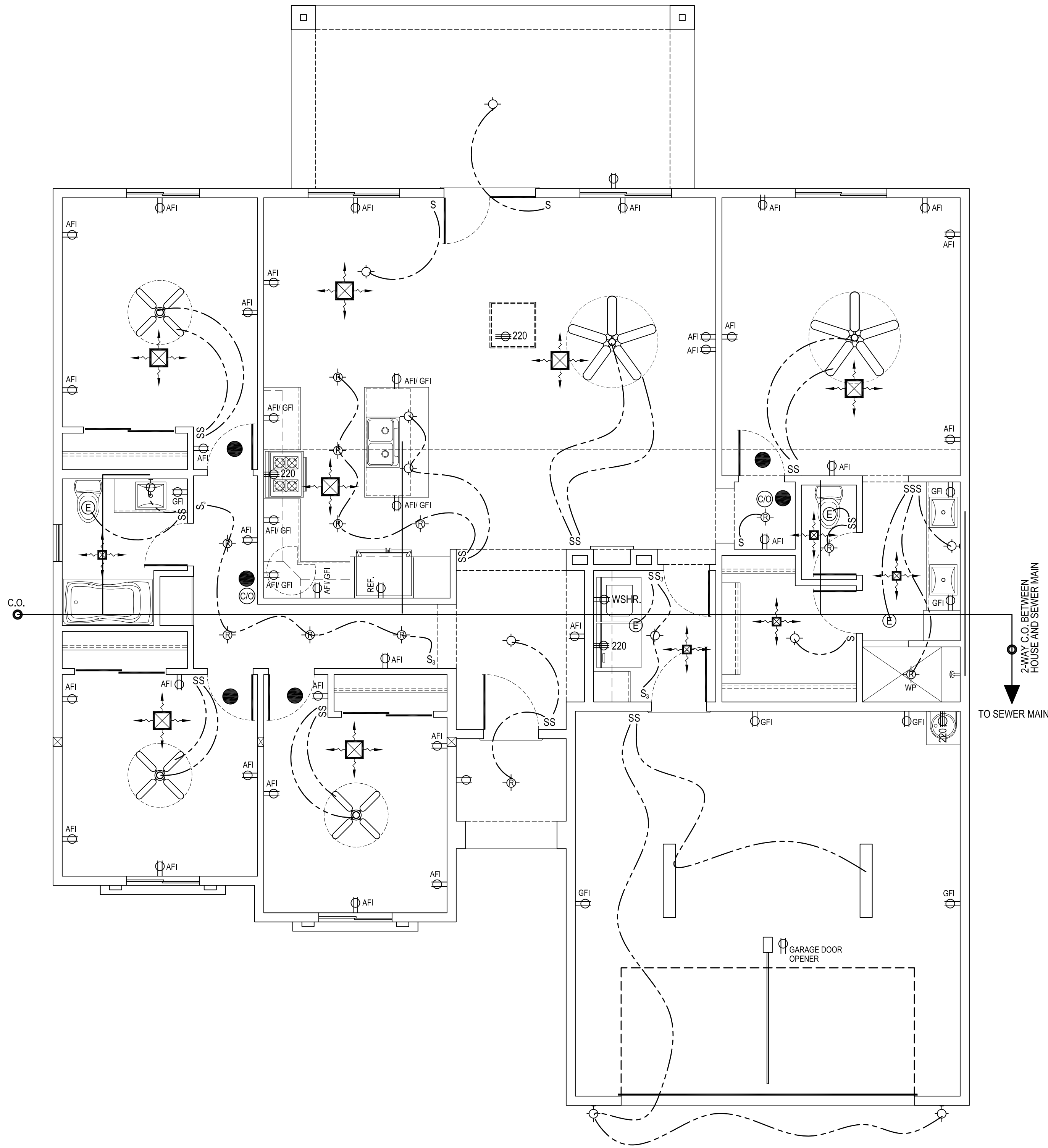
SCALE: 1/4" = 1'-0"



RIGHT ELEVATION

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

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ELECTRICAL PLAN

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

ELECTRICAL SYMBOLS

- DUPLEX OUTLET - 110 V. 15 AMP. - 12" ABOVE FLOOR EXCEPT WHERE HEIGHT IS NOTED
- FOURPLEX OUTLET - 110 V. 15 AMP. - 12" ABOVE FLOOR EXCEPT WHERE HEIGHT IS NOTED
- DUPLEX OUTLET - 110 V. 15 AMP ARC FAULT PROTECTED
- DUPLEX OUTLET - 110 V. 15 AMP. - W/ GROUND FAULT INTERRUPT
- DUPLEX OUTLET - 110 V. 15 AMP. - W/ GROUND FAULT INTERRUPT AND W/P COVER
- SINGLE OUTLET - 220 V. AMPERAGE SPECIFIED
- DUPLEX OUTLET - 110 V. 15 AMP - BOTTOM OUTLET SWITCHED
- DUPLEX OUTLET - 110 V. 15 AMP - FLOOR OUTLE W/ BRASS COVER
- SWITCH - 44" FROM FLOOR EXCEPT WHERE HEIGHT IS NOTED
- SWITCH 2-WAY
- LIGHT - WALL OR CEILING MOUNT
- CEILING FAN W/ LIGHT- W/P IF FOR OUTDOOR USE
- RECESSED CANISTER LIGHT
- RECESSED CANISTER LIGHT W/ W/P COVER
- FLUORESCENT LIGHT - 2 TUBES 48" IN LENGTH
- FLOOD LIGHT - EXTERIOR WEATHER PROOF W/ MOTION DETECTOR
- EXHAUST FAN
- SMOKE DETECTOR - 110 V. W/ BATTERY BACK-UP
- CARBON MONOXIDE DETECTOR
- TELEPHONE OUTLET
- TV OUTLET
- DOOR BELL
- DOOR BELL TRANSFORMER
- ELECTRICAL SERVICE PANEL
- ELECTRICAL METER
- GAS METER

ELECTRICAL NOTES

- ELECTRICAL SUBCONTRACTOR TO PROVIDE ONE SMOKE DETECTOR IN EACH BEDROOM AND ONE IN EACH ACCESS AREA INTO EACH BEDROOM.
- WHEN MULTIPLE SMOKE DETECTORS ARE REQUIRED THEY SHALL BE INTERCONNECTED SUCH THAT THE ACTUATION OF ONE ALARM WILL ACTIVATE ALL ALARMS IN THE INDIVIDUAL UNIT. PHYSICAL INTERCONNECTION OF SMOKE ALARMS SHALL NOT BE REQUIRED WHEN LISTED WIRELESS ALARMS ARE INSTALLED AND ALL ALARMS SOUND UPON ACTIVATION OF ONE ALARM. THE ALARMS SHALL BE CLEARLY AUDIBLE IN ALL BEDROOMS OVER BACKGROUND NOISE LEVELS WITH ALL INTERVENING DOORS CLOSED. (F704.6.2)
- SMOKE ALARMS NOT TO BE LOCATED WITHIN 3' OF BATHROOM DOORS THAT HAVE A SHOWER OR BATHTUB, UNLESS THIS WOULD PREVENT PLACEMENT OF A SMOKE ALARM REQUIRED BY SECTION 704.6.1.1 OR 706.6.1.2. (F704.6.1.4)
- (R315.7) CARBON MONOXIDE ALARMS IN NEW CONSTRUCTION TO BE 120 VOLT POWER WITH BATTERY BACKUP AND TO BE INTERCONNECTED IF MORE THAN ONE ALARM IS REQUIRED. CARBON MONOXIDE DETECTION SYSTEMS SHALL BE PERMITTED TO BE USED IN LIEU OF CO ALARMS AND SHALL COMPLY WITH SECTIONS R315.7.1 THROUGH R315.7.4
- THE MINIMUM SIZE OF CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS SHALL BE NO. 12 COPPER AND NO. 1 ALUMINUM.
- LUMINAIRES INSTALLED IN WET OR DAMP LOCATIONS SHALL BE INSTALLED SO THAT WATER CANNOT ENTER OR ACCUMULATE IN WIRING COMPARTMENTS, LAMP HOLDERS OR OTHER ELECTRICAL PARTS. (E4003.9)
- ALL EXTERIOR RECEPTACLES SHALL BE GFI AND W/P.
- GFI RECEPTACLE REQUIRED FOR GARAGE DOOR OPENERS.
- ALL CONVENIENCE RECEPTACLES ON KITCHEN COUNTERS, IN BATHROOMS AND IN GARAGES SHALL HAVE GFI PROTECTION.
- GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION SHALL BE PROVIDED FOR OUTLETS THAT SUPPLY DISHWASHER. (E3902.10)
- ALL UNDERGROUND NON-METALLIC CONDUITS AND LINES SHALL HAVE A MIN. NO. 12 INSULATED COPPER TRACER WIRE SECURELY ATTACHED AT 8" O.C. OR WRAPPED AROUND THE PIPE AND HAVE 12" OF WIRE EXPOSED ON EACH END. BLUE STAKE LAW ARS 40-360.
- WHERE INSTALLED OUTDOORS IN WET LOCATIONS, ELECTRICAL RECEPTACLES SHALL HAVE AN ENCLOSURE THAT IS WEATHER PROOF WHETHER OR NOT THE ATTACHMENT PLUG IS INSERTED.
- GFCI PROTECTION IS REQUIRED FOR 15 & 20 AMP/ 125 VOLT RECEPTACLES LOCATED IN THE FOLLOWING AREAS: BATHROOMS, GARAGES OR ACCESSORY BUILDINGS, OUTDOOR CRAWLSPACES (BELOW GRADE RECEPTACLES AND LIGHTS), UNFINISHED BASEMENTS, KITCHEN RECEPTACLES COUNTER TOPS, SINK AREAS, LAUNDRY AREAS, KITCHEN AND DISHWASHER, AND BATHHOUSE RECEPTACLES. GFCI RECEPTACLES SHALL BE LOCATED IN A READILY ACCESSIBLE LOCATION. DISHWASHER WILL REQUIRE GFCI RECEPTACLE WITH A DEDICATED CIRCUIT TO BE INSTALLED UNDERNEATH THE SINK SO IT CAN BE READILY ACCESSIBLE AND FEED BOTH DISHWASHER AND GARBAGE DISPOSAL.
- SINGLE PHASE, 15 & 20 AMP/ 125 VOLT RECEPTACLES THAT ARE LOCATED WITHIN 6 FEET OF THE OUTSIDE EDGE OF A BATHTUB OR SHOWER STALL HAVE GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL.
- AFCI PROTECTION IS REQUIRED ON ALL BRANCH CIRCUITS FEEDING POWER TO OUTLETS IN: KITCHEN, FAMILY ROOM, DINING ROOM, LIVING ROOM, PARLORS, LIBRARIES, DENS, BEDROOM, SUNROOM, RECREATION ROOM, CLOSETS, HALLWAYS, AND SIMILAR ROOMS OR AREAS AND LAUNDRY ROOMS.
- FACE PLATE FOR METAL SNAP-SWITCHES INCLUDING DIMMERS SHALL BE CONNECTED TO EQUIPMENT GROUNDING CONDUCTOR AND INSTALLED AS PER SECTION E4001.11.1
- ALL 15A OR 20A/ 125 VOLT NON LOCKING TYPE RECEPTACLES THAT ARE LOCATED IN DAMP OR WET LOCATIONS, SHALL BE LISTED FOR WEATHER RESISTANT.
- FOR OUTLETS USED EXCLUSIVELY FOR LIGHTING, THE BOX SHALL BE DESIGNED OR INSTALLED SO THAT A LUMINAIRE OR LAMP HOLDER CAN BE INSTALLED. SUCH BOXES SHALL BE CAPABLE OF SUPPORTING A LUMINAIRE WEIGHING UP TO 50 POUNDS (70 LBS FOR CEILING FANS). A LUMINAIRE THAT WEIGHS MORE THAN 50 POUNDS SHALL BE SUPPORTED INDEPENDENTLY OF THE OUTLET BOX, UNLESS THE BOX IS LISTED AND MARKED ON THE INTERIOR OF THE BOX TO INDICATE THE MAXIMUM WEIGHT THAT THE BOX IS PERMITTED TO SUPPORT. (IRC 2018 E3905.6.2 AND E3905.8)
- TAMPER RESISTANT RECEPTACLES SHALL BE REQUIRED FOR ALL 15 AMP OR 20 AMP/ 125 VOLT OUTLETS EXCEPT: OUTLETS LOCATED 5'-6" ABOVE FLOOR, SINGLE RECEPTACLES THAT ARE DEDICATED FOR ONE APPLIANCE, AND DUPLEX RECEPTACLES THAT IS DEDICATED FOR TWO APPLIANCES.
- WHERE RACEWAYS ARE INSTALLED IN WET LOCATIONS ABOVE GRADE, THE INTERIOR OF SUCH RACEWAYS SHALL BE CONSIDERED TO BE A WET LOCATION. INSULATED CONDUCTORS AND CABLES INSTALLED IN RACEWAYS IN WET LOCATIONS ABOVE GRADE SHALL BE LISTED FOR USE IN WET LOCATIONS.
- THE INTERIOR OF ENCLOSURES OR RACEWAYS INSTALLED UNDERGROUND SHALL BE CONSIDERED TO BE A WET LOCATION. INSULATED CONDUCTORS AND CABLES INSTALLED IN SUCH ENCLOSURES OR RACEWAYS IN UNDERGROUND INSTALLATIONS SHALL BE LISTED FOR USE IN WET LOCATIONS. CONNECTIONS OR SPLICES IN AN UNDERGROUND INSTALLATION SHALL BE APPROVED FOR WET LOCATIONS.
- KITCHEN: A MINIMUM OF TWO 20-AMPERE RATED BRANCH CIRCUITS SHALL BE PROVIDED TO SERVE ALL WALL AND FLOOR RECEPTACLE OUTLETS LOCATED IN THE KITCHEN, PANTRY, BREAKFAST AREA, DINING AREA OR SIMILAR AREA OF A DWELLING. THE KITCHEN COUNTERTOP RECEPTACLES SHALL BE SERVED BY A MINIMUM OF TWO 20-AMPERE RATED BRANCH CIRCUITS, EITHER BOTH OF WHICH SHALL ALSO BE PERMITTED TO SUPPLY OTHER RECEPTACLE OUTLETS IN THE SAME KITCHEN, PANTRY, BREAKFAST AND DINING AREA. THE RECEPTACLE OUTLET FOR REFRIGERATION APPLIANCES SHALL BE PERMITTED TO BE SUPPLIED FROM AN INDIVIDUAL BRANCH CIRCUIT RATED 15 AMPERES OR GREATER.
- EXCEPTION FOR REFRIGERATOR ONLY: IF A DEDICATED BRANCH CIRCUIT IS INSTALLED AND PROTECTED IN A METALLIC RACEWAY (MC CABLE), THEN IT WOULD NOT BE REQUIRED TO BE AFCI PROTECTED. REFRIGERATOR RECEPTACLE NOT REQUIRED TO BE GFI PROTECTED IF ONLY ONE SINGLE RECEPTACLE IS INSTALLED.
- LAUNDRY: A MINIMUM OF ONE 20-AMPERE RATED BRANCH CIRCUIT SHALL BE PROVIDED FOR RECEPTACLES LOCATED IN THE LAUNDRY AREA AND SHALL SERVE ONLY RECEPTACLE OUTLETS LOCATED IN THE LAUNDRY AREA
- NOT LESS THAN ONE RECEPTACLE OUTLET SHALL BE INSTALLED IN AREAS DESIGNATED FOR THE INSTALLATION OF LAUNDRY EQUIPMENT. (E3901.8)
- PROVIDE RECEPTACLE OUTLETS IN GARAGES, BASEMENTS AND ACCESSORY BUILDINGS AS PER SECTION E3901.9
- GARAGE BRANCH CIRCUITS, MINIMUM 20A BRANCH CIRCUIT REQUIRED FOR RECEPTACLE OUTLETS IN ATTACHED GARAGES AND DETACHED GARAGES WITH ELECTRIC POWER. THE CIRCUIT SHALL HAVE NO OTHER OUTLETS, EXCEPT FOR READILY ACCESSIBLE OUTDOOR RECEPTACLE OUTLETS.
- A SURFACE MOUNTED SWITCH OR CIRCUIT BREAKER LOCATED IN A DAMP OR WET LOCATION OR OUTSIDE OF A BUILDING SHALL BE INSTALLED AS PER SECTION E4001.7
- A MINIMUM OF ONE 20 AMPERE RATED BRANCH CIRCUIT SHALL BE PROVIDED TO SUPPLY BATHROOM RECEPTACLE OUTLET(S). SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS.
- WARNING RIBBON: UNDERGROUND SERVICE CONDUCTORS THAT ARE NOT ENCASED IN CONCRETE AND THAT ARE BURIED 18" OR MORE BELOW GRADE SHALL HAVE THEIR LOCATION IDENTIFIED BY A WARNING RIBBON THAT IS PLACED IN THE TRENCH NOT LESS THAN 12" ABOVE THE UNDERGROUND INSTALLATION.
- SUPPLEMENTAL GROUNDING ELECTRODE-WHERE NO UFER IS INSTALLED, TWO GROUND RODS FOR A NEW SERVICE PANEL WILL NEED TO BE INSTALLED. THE TWO GROUND RODS SHALL BE A MINIMUM OF 6' APART. EXCEPTION- ONE GROUND ROD WILL BE REQUIRED IF THE GROUND RESISTANCE AT THAT LOCATION IS 25-OHMS OR LESS. APPROVED DISCONNECT IS REQUIRED OR A FACTORY MADE CORD WITH A RECEPTACLE ON THE WALL. EXCEPTION- A DISCONNECT WILL NOT BE NEEDED IF AN APPROVED BREAKER LOCK IS INSTALLED AT THE SERVICE OR WHERE THE OVER CURRENT IS LOCATED.

PLUMBING NOTES

- UNDERGROUND PIPING SYSTEMS SHALL BE INSTALLED A MINIMUM DEPTH OF 12" BELOW GRADE.
- T AND P VALVE SHALL HAVE A 3/4" DISCHARGE PIPE THAT TERMINATES AT A MAXIMUM 6" ABOVE THE FLOOR.
- WATER HEATERS INSTALLED INSIDE HOMES UNLESS IN A SUMP LOCATION OR A GARAGE WILL REQUIRE PANS.
- WATER HEATERS TANK-TYPE INSTALLED WHERE WATER LEAKAGE WILL CAUSE DAMAGE SHALL HAVE A PAN (P2801.6). PAN DRAIN SHALL DRAIN BY AN INDIRECT WATER PIPE HAVING A MIN. DIAMETER OF 3/4" OR THE OUTLET DIAMETER OF THE RELIEF VALVE, WHICHEVER IS LARGER. PAN DRAIN SHALL EXTEND TO A SUITABLY LOCATED INDIRECT WASTE RECEPTOR OR TO THE EXTERIOR OF THE BUILDING AND TERMINATE A MIN. OF 6" AND A MAX OF 24" ABOVE THE ADJACENT GROUND SURFACE. PAN MAY DRAIN INTO GARAGE.
- WATER HEATERS INSTALLED IN GARAGES AND HAVING AN IGNITION SOURCE SHALL BE ELEVATED SUCH THAT SOURCE OF IGNITION IS NOT LESS THAN 18" ABOVE THE GARAGE FLOOR. (P2801.7)
- A CHECK OR SHUTOFF VALVE SHALL NOT BE INSTALLED IN ANY OF THE FOLLOWING LOCATIONS:
 - BETWEEN A RELIEF VALVE AND THE TERMINATION POINT OF THE RELIEF VALVE DISCHARGE PIPE.
 - BETWEEN A RELIEF VALVE AND A TANK.
 - BETWEEN A RELIEF VALVE AND HEATING APPLIANCES OR EQUIPMENT.
- REQUIREMENTS FOR DISCHARGE PIPE SEE SECTION P2804.6.1
- WATER HAMMER- THE FLOW VELOCITY OF THE WATER DISTRIBUTION SYSTEM SHALL BE CONTROLLED TO REDUCE THE POSSIBILITY OF WATER HAMMER. A WATER HAMMER ARRESTOR SHALL BE INSTALLED WHERE QUICK-CLOSING VALVES ARE UTILIZED. WATER-HAMMER ARRESTORS SHALL BE INSTALLED ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. WATER HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010. (P2903.5)
- USE OF COPPER AT INACCESSIBLE WATER PIPING UNDER SLABS SHALL BE LIMITED TO TYPE K, WITH NO JOINTS.

MECHANICAL NOTES

- IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO VERIFY AC UNIT, REGISTER SIZES AND THEIR RESPECTIVE LOCATIONS.
- PROVIDE COMPLETE MECHANICAL PLANS INCLUDING RETURN AIR LOCATION AND AIR DUCT SIZES ON SITE FOR INSPECTORS REVIEW.
- CONDENSATION LINES SHALL BE TERMINATED AT AN APPROVED LOCATION.
- CLOTHES DRYER EXHAUST REQUIREMENTS SEE SECTION M1502
- STANDARD INSULATED GARAGE DOORS SHALL BE PERMITTED AT AT CONDITIONED GARAGES AND ARE NOT SUBJECT TO THE FENESTRATION AIR LEAKAGE REQUIREMENTS OF SECTION N1102.4.3. FOR USE OF THIS EXCEPTION THE GARAGE CONDITIONING SHALL BE A DEDICATED MECHANICAL SYSTEM. REGISTER/ DIFFUSER OPENINGS AT THE GARAGE CEILING SHALL INCLUDE CEILING RADIATION DAMPERS OR DUCTS SHALL BE CONSTRUCTED OF A MINIMUM NO. 26 GAGE SHEET STEEL.
- AN APPLIANCE VENT TERMINAL IS NOT PERMITTED IN A LOCATION WITHIN 12" OF THE ARC OF A SWINGING DOOR.

ELECTRICAL PLAN

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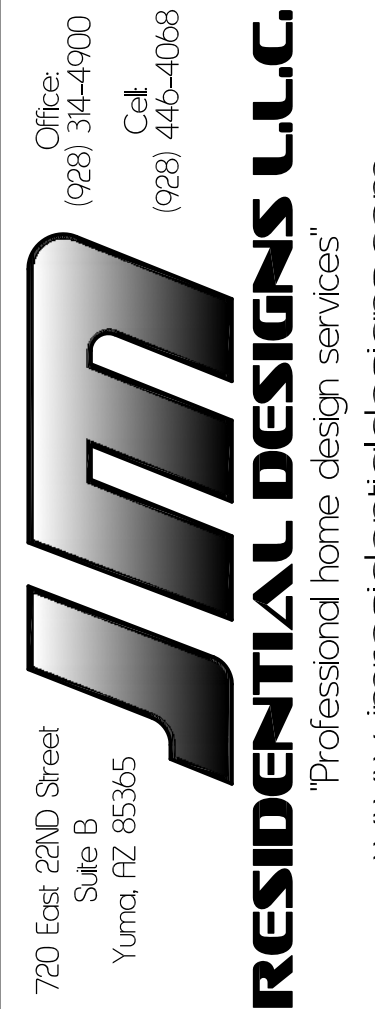
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COMPLETED: 6-21-20

7 OF 8 SHEETS

PLAN 1654

PROJECT FILE NAME: VZC-2002

THESE CONSTRUCTION DOCUMENTS ARE DRAWN TO COMPLY WITH THE OWNERS AND/OR CONTRACTORS SPECIFICATIONS AND ANY CHANGES OR MODIFICATIONS TO THE PLANS NOT REQUIRED BY THE BUILDING DEPARTMENT SHALL BE DONE AT THE OWNERS AND/OR CONTRACTORS EXPENSE AND RESPONSIBILITY. IN THE PREPARATION OF THESE CONSTRUCTION DOCUMENTS EVERY EFFORT HAS BEEN MADE TO AVOID ERRORS. THE BUILDER OR OWNER SHALL NOTIFY THE DESIGNER OF ANY DISCREPANCIES OR CONFLICTS IN THE DRAWINGS PRIOR TO COMMENCING THE WORK AND ORDERING MATERIALS. THESE DOCUMENTS SHALL BE USED ONLY FOR THIS PROPERTY.

WATER DISTRIBUTION

SCALE: NONE

PLUMBING SCHEMATIC

SCALE: NONE

ENERGY EFFICIENCY NOTES

STRUCTURE/ FRAMING:
 THE BUILDING THERMAL ENVELOPE SHALL MEET THE FOLLOWING REQUIREMENTS (UNLESS MEETING U-FACTOR ALTERNATIVE OR TOTAL U/A ALTERNATIVE METHODS) (N1102.1.4):

1. CEILING INSULATION R-VALUE: 38'
2. WOOD FRAME WALL INSULATION R-VALUE: 13
3. FLOOR INSULATION R-VALUE: 13
4. MASS WALLS R-VALUE: 4/6
5. FENESTRATION U-FACTOR: 0.40
6. SKYLIGHT U-FACTOR: 0.65
7. GLAZED FENESTRATION SOLAR HEAT GAIN COEFFICIENT (SHGC): 0.25

*BLOWN CEILING INSULATION REQUIRES INSULATION MARKERS INSTALLED EVERY 300 SF THROUGHOUT THE ATTIC SPACE, AFFIXED TO THE TRUSSES OR JOISTS AND MARKED WITH THE MINIMUM INITIAL INSTALLED THICKNESS WITH A NUMBER MINIMUM 1" IN HEIGHT. EACH MARKER SHALL FACE THE ATTIC OPENING (N1101.10.1.1)

EAVE BAFFLES ARE REQUIRED ADJACENT TO SOFFIT AND EAVE VENTS (TABLE N1102.2.3)

THE AIR BARRIER IN ANY DROPPED CEILING/SOFFIT SHALL BE ALIGNED WITH THE INSULATION AND ANY GAPS IN THE AIR BARRIER SEALED. ACCESS OPENINGS, DROP DOWN STAIRS OR KNEE WALL DOORS TO UNCONDITIONED ATTIC SPACES SHALL BE SEALED. (TABLE N1102.4.1.1)

ATTIC ACCESS HATCHES FROM UNCONDITIONED TO CONDITIONED SPACES TO BE WEATHER STRIPPED AND INSULATED TO A LEVEL EQUIVALENT TO THE SURROUNDING SURFACES. ACCESS TO ALL EQUIPMENT SHALL BE PROVIDED THAT PREVENTS DAMAGING OR COMPRESSING THE INSULATION. A WOOD FRAMED OR EQUIVALENT BAFFLE OR RETAINER SHALL BE PROVIDED WHEN LOOSE FILL INSULATION IS INSTALLED, TO PREVENT SPILLAGE OF INSULATION INTO THE LIVING SPACE WHEN THE ATTIC ACCESS IS OPENED, AND TO MAINTAIN THE INSTALLED R-VALUE OF THE LOOSE FILL INSULATION (N1102.2.4)

THE JUNCTION OF FOUNDATION AND SILL PLATE SHALL BE SEALED WITH SILL SEALER AND/OR CAULKING. (TABLE N1102.4.1.1)

CORNERS AND HEADERS SHALL BE INSULATED. THE JUNCTION OF THE TOP PLATE AND TOP OF EXTERIOR WALLS SHALL BE SEALED.

EXTERIOR THERMAL ENVELOPE INSULATION FOR FRAMED WALLS SHALL BE INSTALLED IN SUBSTANTIAL CONTACT AND CONTINUOUS ALIGNMENT WITH THE AIR BARRIER. KNEE WALLS SHALL BE SEALED.

RIM JOISTS SHALL BE INSULATED AND INCLUDE THE AIR BARRIER.

INSULATION SHALL BE INSTALLED TO MAINTAIN PERMANENT CONTACT WITH UNDERSIDE OF SUB-FLOOR DECKING. THE AIR BARRIER SHALL BE INSTALLED AT ANY EXPOSED EDGE OF INSULATION.

DUCT SHAFTS, UTILITY PENETRATIONS, AND FLUE SHAFT OPENINGS TO EXTERIOR OR UNCONDITIONED SPACE SHALL BE SEALED.

BATTS IN NARROW CAVITIES SHALL BE CUT TO FIT, OR NARROW CAVITIES SHALL BE FILLED BY INSULATION THAT ON INSTALLATION READILY CONFORMS TO THE AVAILABLE CAVITY SPACE.

AIR SEALING SHALL BE PROVIDED BETWEEN THE GARAGE AND CONDITIONED SPACES.

NEW WOOD BURNING FIREPLACES SHALL HAVE TIGHT-FITTING FLUE DAMPERS OR DOORS AND OUTDOOR COMBUSTION AIR, WHERE USING TIGHT-FITTING DOORS ON FACTORY BUILT FIREPLACES LISTED AND LABELED ACCORDANCE WITH UL 127, THE DOORS SHALL BE TESTED AND LISTED FOR THE FIREPLACE. (N1102.4.2) (R402.4.2)

UP TO 15 SF OF GLAZED FENESTRATION PER DWELLING UNIT IS EXEMPT FROM THE U-FACTOR AND SHGC REQUIREMENTS IN N1102.1.2 (N1102.3.3).

WALL ASSEMBLIES IN THE BUILDING THERMAL ENVELOPE SHALL COMPLY WITH THE VAPOR RETARDER REQUIREMENTS OF SECTION R702.7 (N1102.1.1) (R402.1.1)

THE BUILDING THERMAL ENVELOPE SHALL BE CONSTRUCTED TO LIMIT AIR LEAKAGE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS N1102.4.1 THROUGH N1102.4.5

WINDOWS, SKYLIGHTS AND SLIDING GLASS DOORS (OTHER THAN SITE BUILT) INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL HAVE AN AIR INFILTRATION RATE OF NO MORE THAN 0.3 CFM PER SQUARE FOOT, SWINGING DOORS NO MORE THAN 0.5 CFM PER SQUARE FOOT (N1102.4.3).

RECESSED LUMINARIES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE SEALED TO LIMIT THE AIR LEAKAGE. THEY SHALL BE IC-RATED AND LABELED AS HAVING AN AIR LEAKAGE RATE NOT MORE THAN 2.0 CFM. THEY SHALL BE SEALED WITH A GASKET OR CAULK BETWEEN THE HOUSING AND THE INTERIOR WALL OR CEILING (N1102.4.5).

HEATING-VENTILATION-AIR CONDITIONING (HVAC):
 CUSTOM HOMES - SYSTEM COMPONENTS
 A. MECHANICAL CONTRACTORS SHALL PROVIDE ACCA MANUAL J D & S CALCULATIONS FOR CUSTOM HOMES.

NOT LESS THAN ONE THERMOSTAT SHALL BE PROVIDED FOR EACH SEPARATE HEATING AND COOLING SYSTEM. (N1103.1)

PROGRAMMABLE THERMOSTAT. THE THERMOSTAT CONTROLLING THE PRIMARY HEATING OR COOLING SYSTEM OF THE DWELLING UNIT SHALL BE CAPABLE OF CONTROLLING THE HEATING AND COOLING SYSTEM ON A DAILY SCHEDULE TO MAINTAIN DIFFERENT TEMPERATURES SET POINTS AT DIFFERENT TIMES OF THE DAY. THIS THERMOSTAT SHALL INCLUDE THE CAPABILITY TO SET BACK OR TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN ZONE TEMPERATURES DOWN TO 55°F (13°C) OR UP TO 85°F (29°C). THE THERMOSTAT SHALL INITIALLY BE PROGRAMMED BY THE MANUFACTURER WITH A HEATING TEMPERATURE SET POINT NO HIGHER THAN 70°F (21°C) AND COOLING TEMPERATURE SET POINT NO LOWER THAN 78°F (26°C). (N1103.1.1)

DUCT TIGHTNESS AND LEAKAGE TEST (N1103.3.3)
 A. DUCT LEAKAGE TEST SHOULD BE CONDUCTED BY A LICENSED MECHANICAL CONTRACTOR WITH TRAINED PERSONNEL OR A CERTIFIED THIRD PARTY INSPECTOR.

B. THE CONTRACTORS WILL SCHEDULE A DUCT LEAKAGE TEST AND INDICATE THE TME OF THE TEST. BUILDING DEPARTMENT INSPECTORS MAY OR MAY NOT BE PRESENT DURING THE TEST.

C. THE BUILDING DEPARTMENT WILL PROVIDE A STANDARDIZED FILL FORM FOR DOCUMENTATION OF DUCT LEAKAGE TEST.

N1103.3.4 (R403.3.4) DUCT LEAKAGE (PRESCRIPTIVE)
 THE TOTAL LEAKAGE OF THE DUCTS, WHERE MEASURED IN ACCORDANCE WITH SECTION R403.3.3, SHALL BE AS FOLLOWS:

1. ROUGH-IN TEST: THE TOTAL LEAKAGE SHALL BE LESS THAN OR EQUAL TO 4 CUBIC FEET PER MINUTE (113.3 L/ MIN) PER 100 SQUARE FEET OF CONDITIONED FLOOR AREA WHERE THE AIR HANDLER IS INSTALLED AT THE TIME OF THE TEST, WHERE THE AIR HANDLER IS NOT INSTALLED AT THE TIME OF THE TEST, THE TOTAL LEAKAGE SHALL BE LESS THAN OR EQUAL TO 3 CUBIC FEET PER MINUTE (85 L/ MIN) PER 100 SQUARE FEET OF CONDITIONED FLOOR AREA.
2. POST PRODUCTION TEST: THE TOTAL LEAKAGE SHALL BE LESS THAN OR EQUAL TO 4 CUBIC FEET PER MINUTE (113.3 L/ MIN) PER 100 SQUARE FEET OF CONDITIONED FLOOR AREA.

A WRITTEN REPORT OF THE RESULTS OF THE TEST SHALL BE SIGNED BY THE PARTY CONDUCTING THE TEST AND PROVIDED TO THE BUILDING OFFICIAL.

SUPPLY AND RETURN DUCTS IN ATTICS SHALL BE INSULATED TO AN R-VALUE OF NOT LESS THAN R-8 FOR DUCTS 3 INCHES IN DIAMETER AND LARGER AND NOT LESS THAN R-6 FOR DUCTS SMALLER THAN 3" IN DIAMETER. SUPPLY AND RETURN DUCTS IN OTHER PORTIONS OF THE BUILDING SHALL BE INSULATED TO NOT LESS THAN R-6 FOR DUCTS 3 INCHES IN DIAMETER AND TO NOT LESS THAN R-4.2 FOR DUCTS SMALLER THAN 3 INCHES IN DIAMETER. (N1103.3.1)

HVAC SUPPLY AND RETURN REGISTER BOOTS THAT PENETRATE THE BUILDING THERMAL ENVELOPE SHALL BE SEALED TO THE SUBFLOOR, WALL COVERING OR CEILING PENETRATED BY THE BOOT. (N1102.4.1.1)

DUCTS, AIR HANDLERS, AND AIR FILTER BOXES SHALL BE SEALED. (N1103.3.2)

FRAMING CAVITIES SHALL NOT BE USED AS A SUPPLY DUCT. (N1103.3.5)

MECHANICAL SYSTEM PIPING CAPABLE OF CARRYING FLUIDS ABOVE 105° F OR BELOW 55° F SHALL BE INSULATED TO A MINIMUM OF R-3.

SERVICE HOT WATER SYSTEMS SEE SECTION N1103.5
 ENERGY CONSERVATION MEASURES FOR SERVICE OF HOT WATER SYSTEMS SHALL BE IN ACCORDANCE WITH SECTIONS N1103.5.1 THROUGH N1103.5.4

LIGHTING
 NOT LESS THAN 90% OF THE PERMANENTLY INSTALLED LIGHT FIXTURES SHALL CONTAIN ONLY HIGH-EFFICACY LIGHTS. (N104.1)

FUEL GAS LIGHTING SYSTEMS SHALL NOT HAVE CONTINUOUSLY BURNING PILOT LIGHTS. (N104.1.10)

PLUMBING SCHEMATICS

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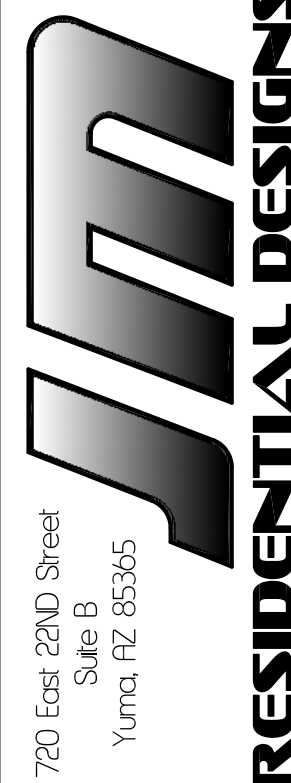
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