

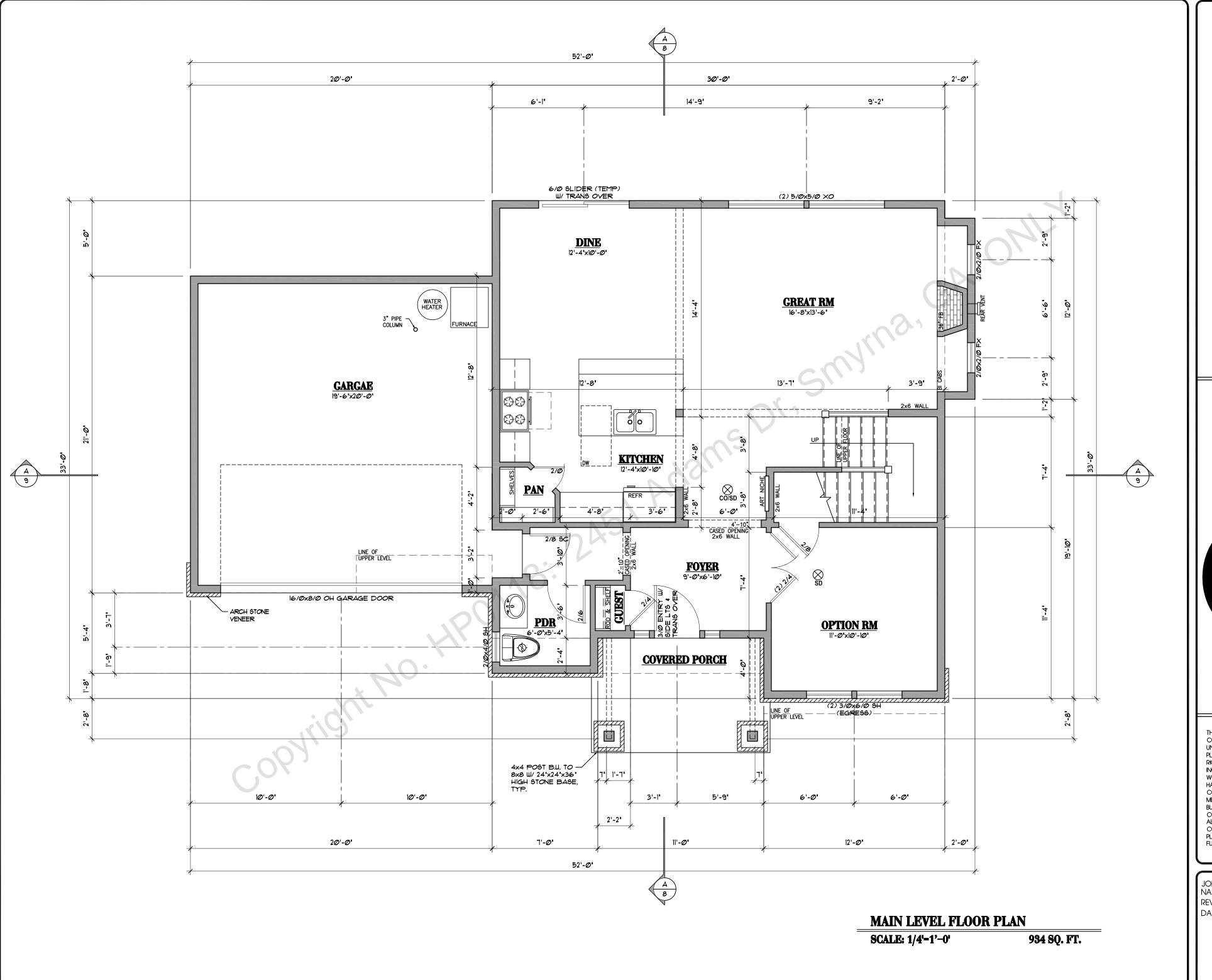
FEET SQ TOTAL 2224

32112E

PLAN NUMBER

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DATE: 4/2015 SJI	



BRANDVILLE E

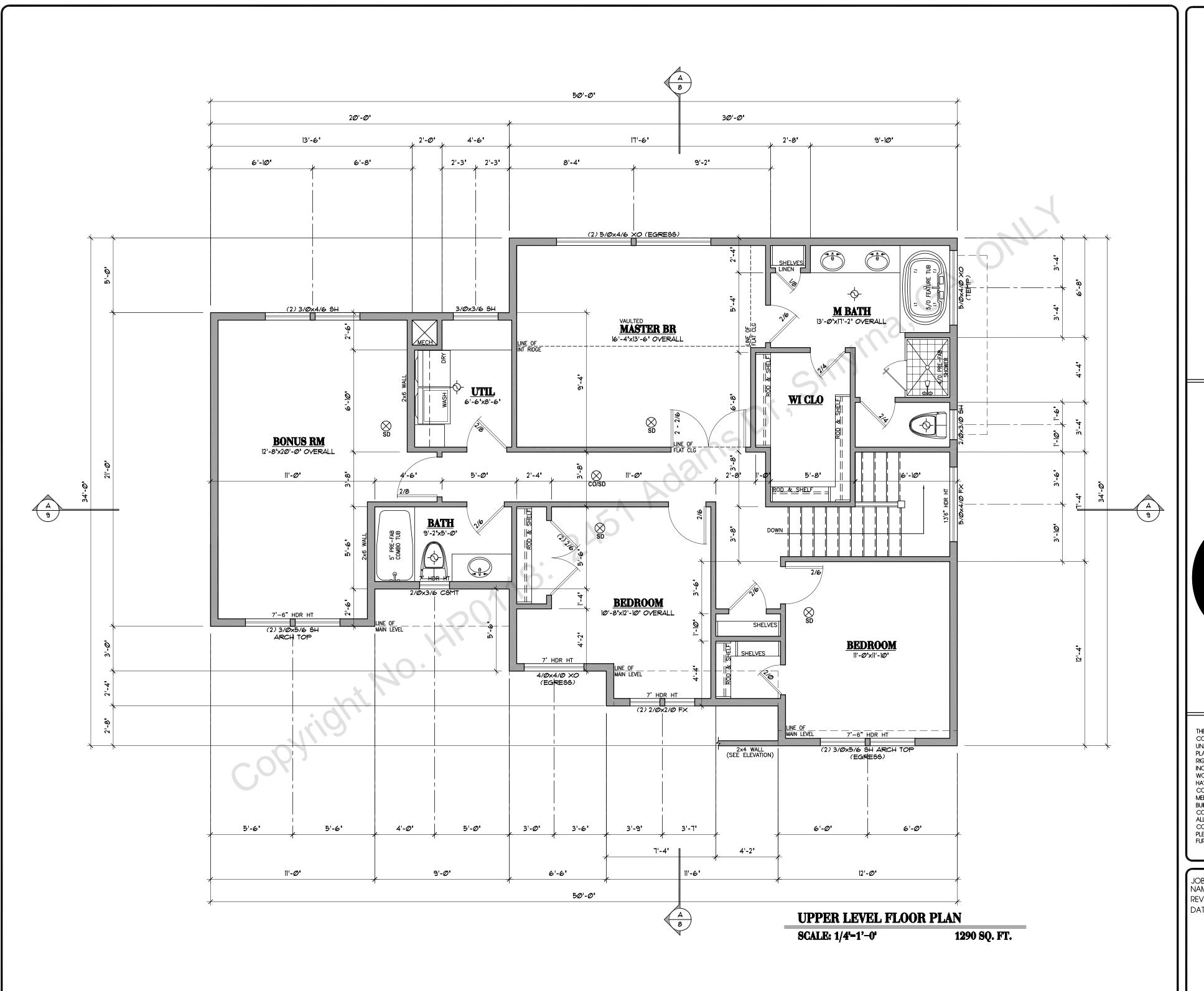
TOTAL

PLAN NUMBER 32112E

D E S I G N · I N C 16865 Boones Ferry Road, Suite 201, Lake Oswego, Oregon 976 Tel: (503) 624 0555 Fax: (503) 624 0155

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RANDVILLE E

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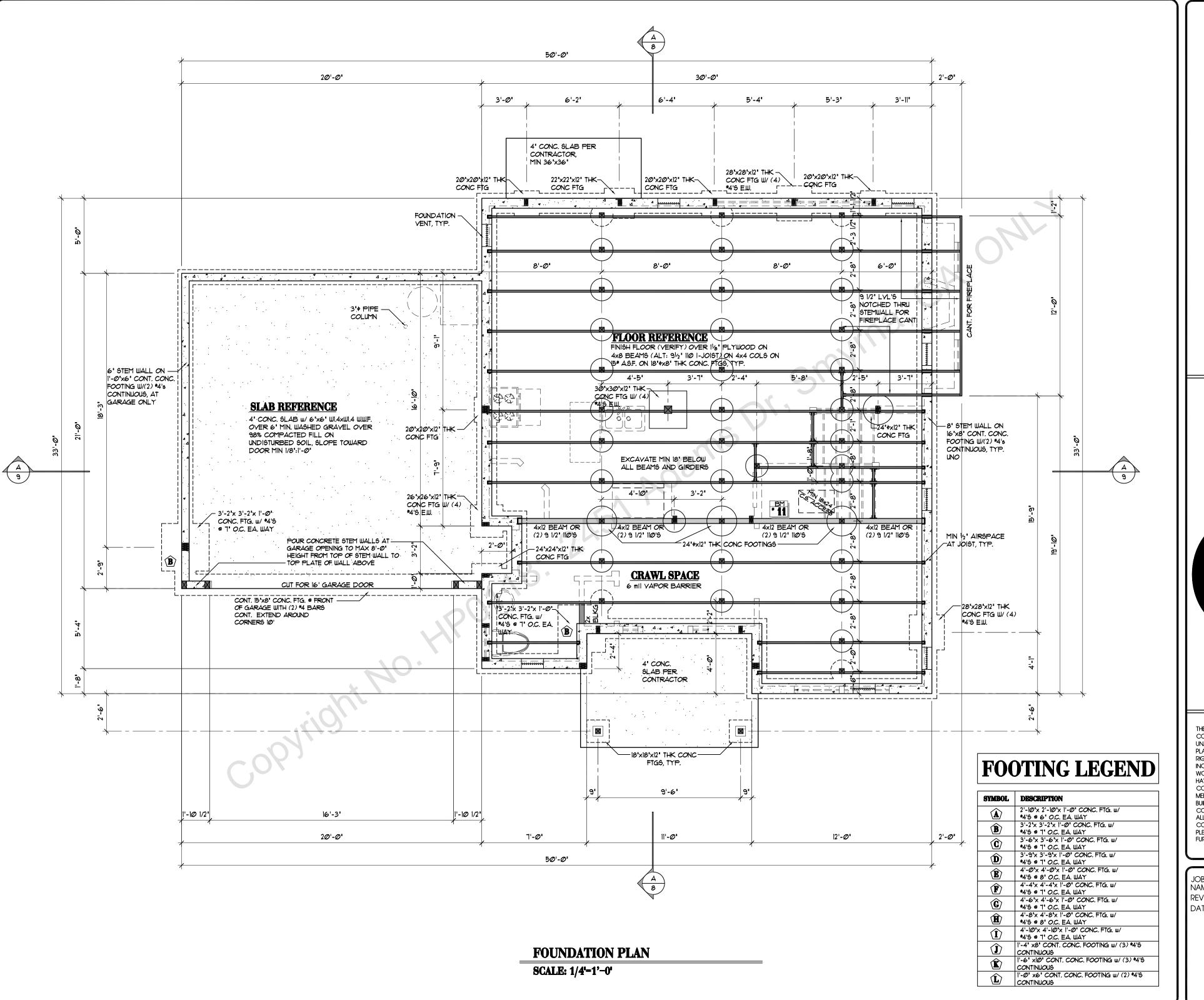
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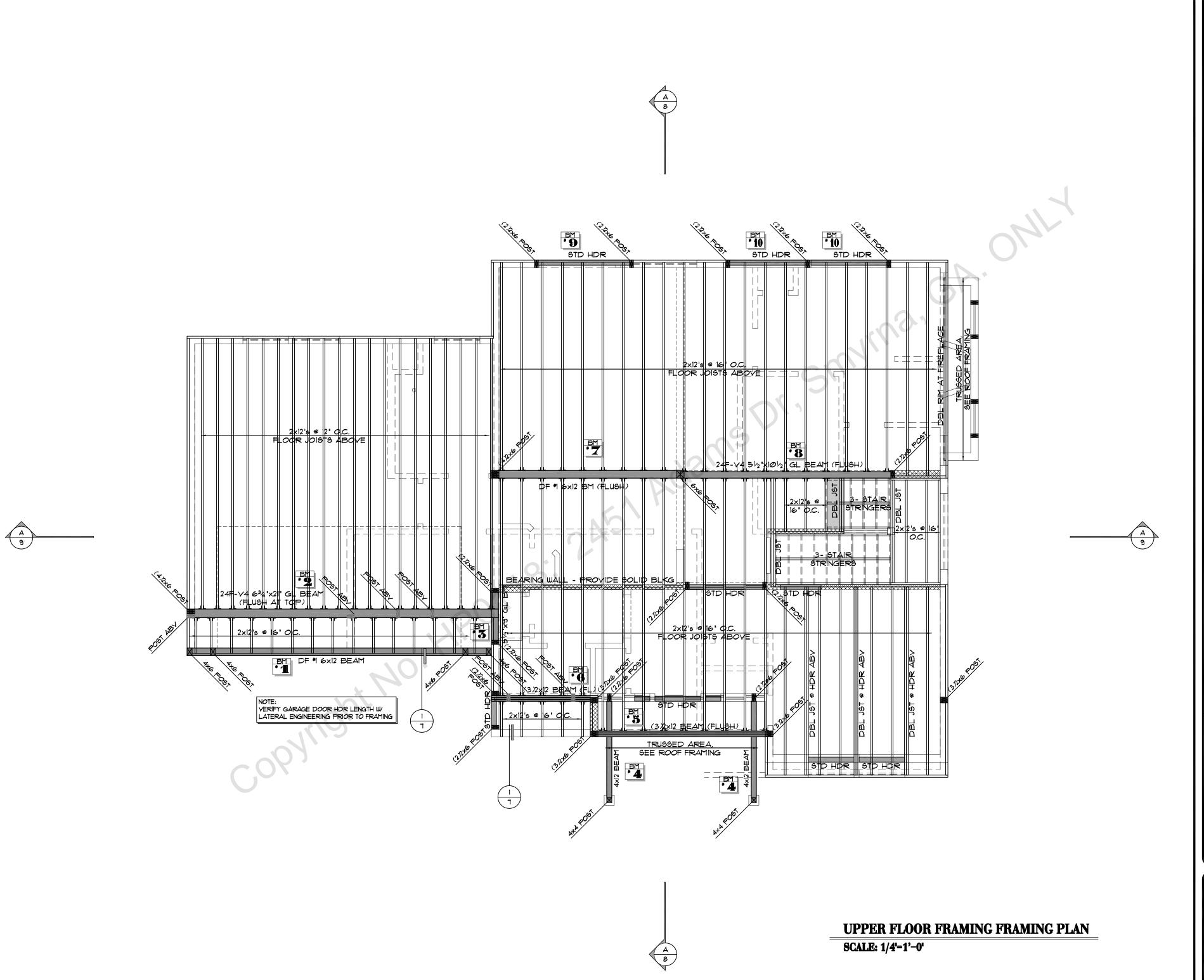
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DATE: <u>4/2015</u>	SJI



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2224 TOTAL

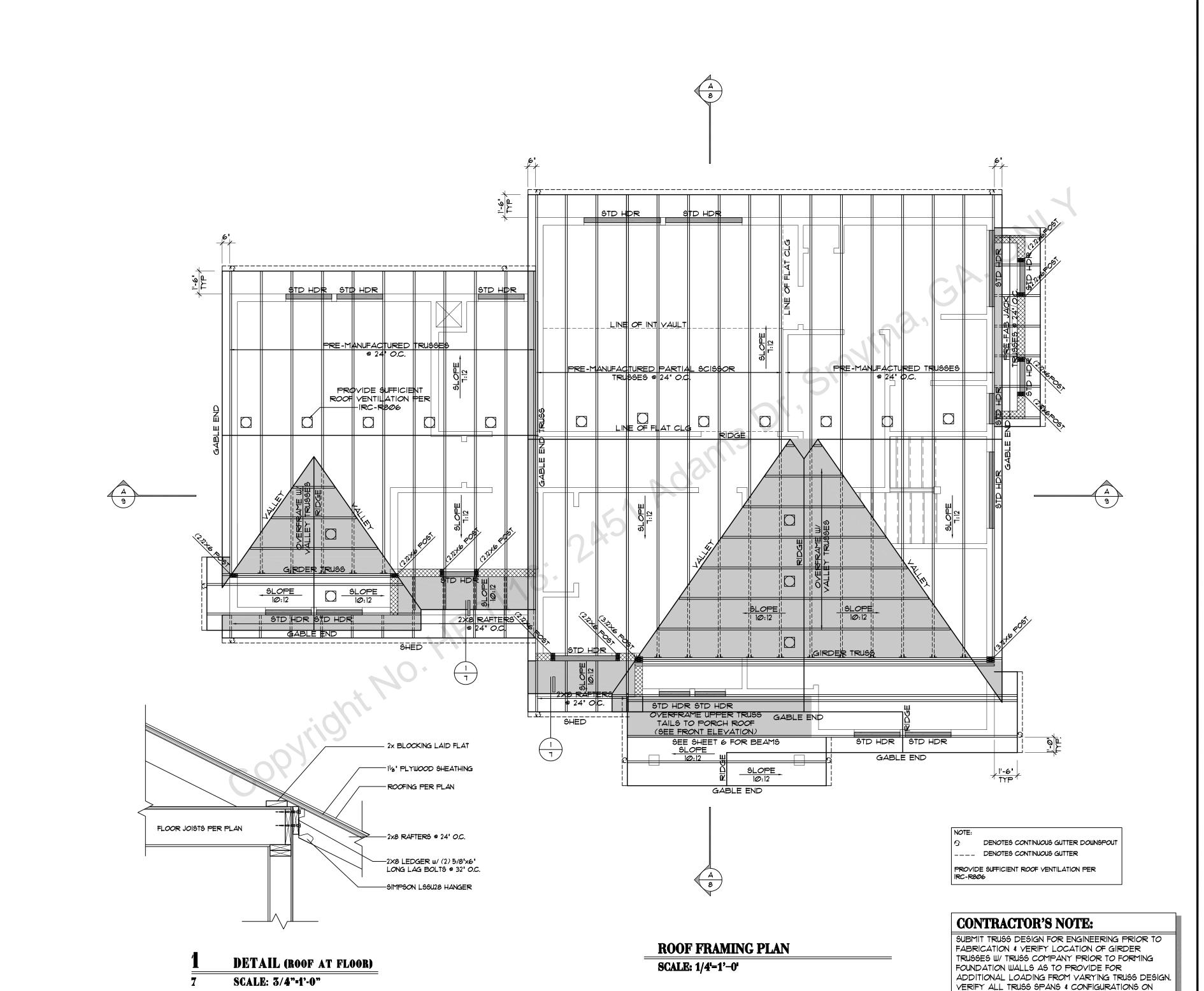
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CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND DETAILS PRIOR TO CONSTRUCTION FOR ERRORS AND OMISSIONS. PLEASE SEE YOUR LICENSE AGREEMENT FOR FURTHER INFORMATION.



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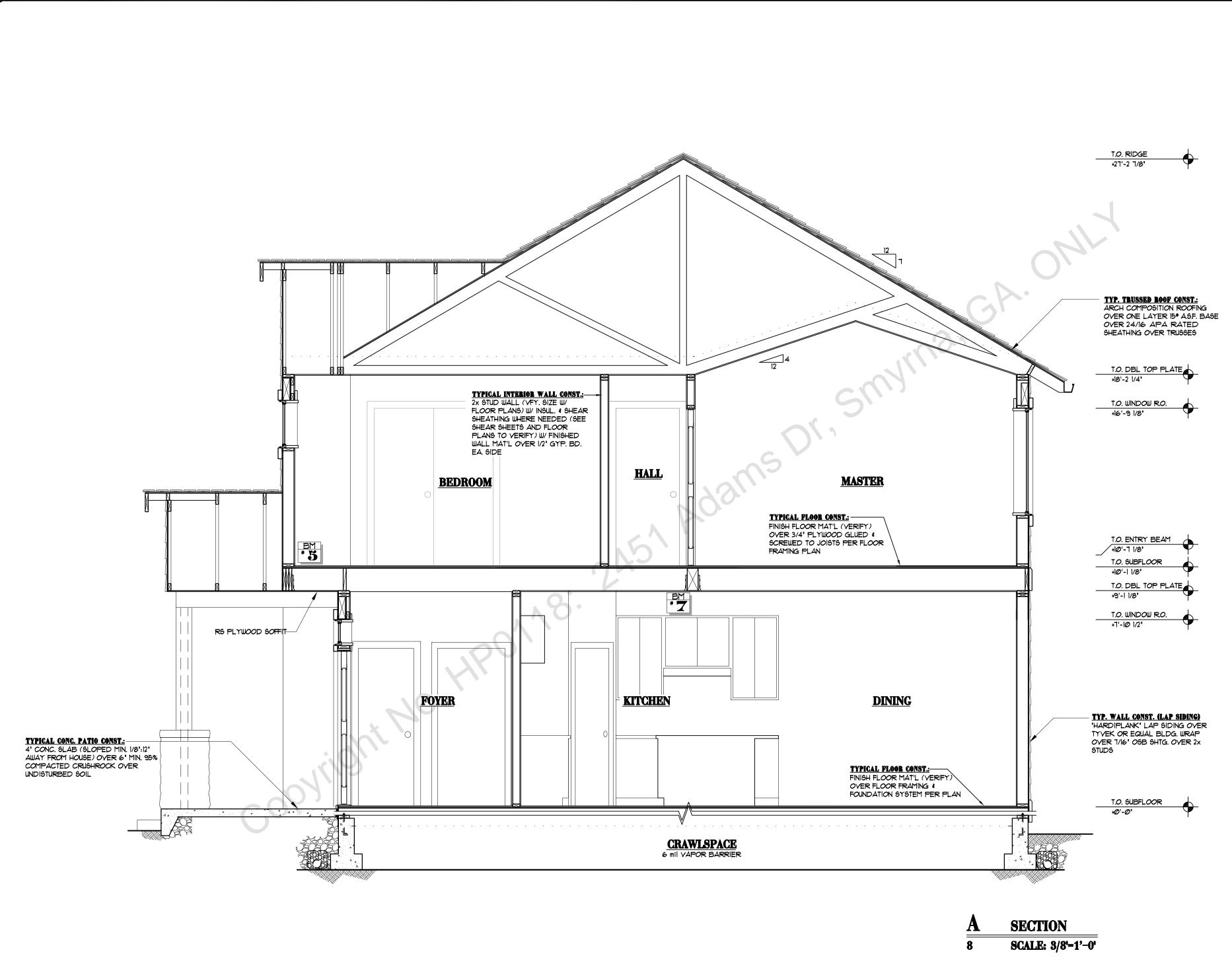
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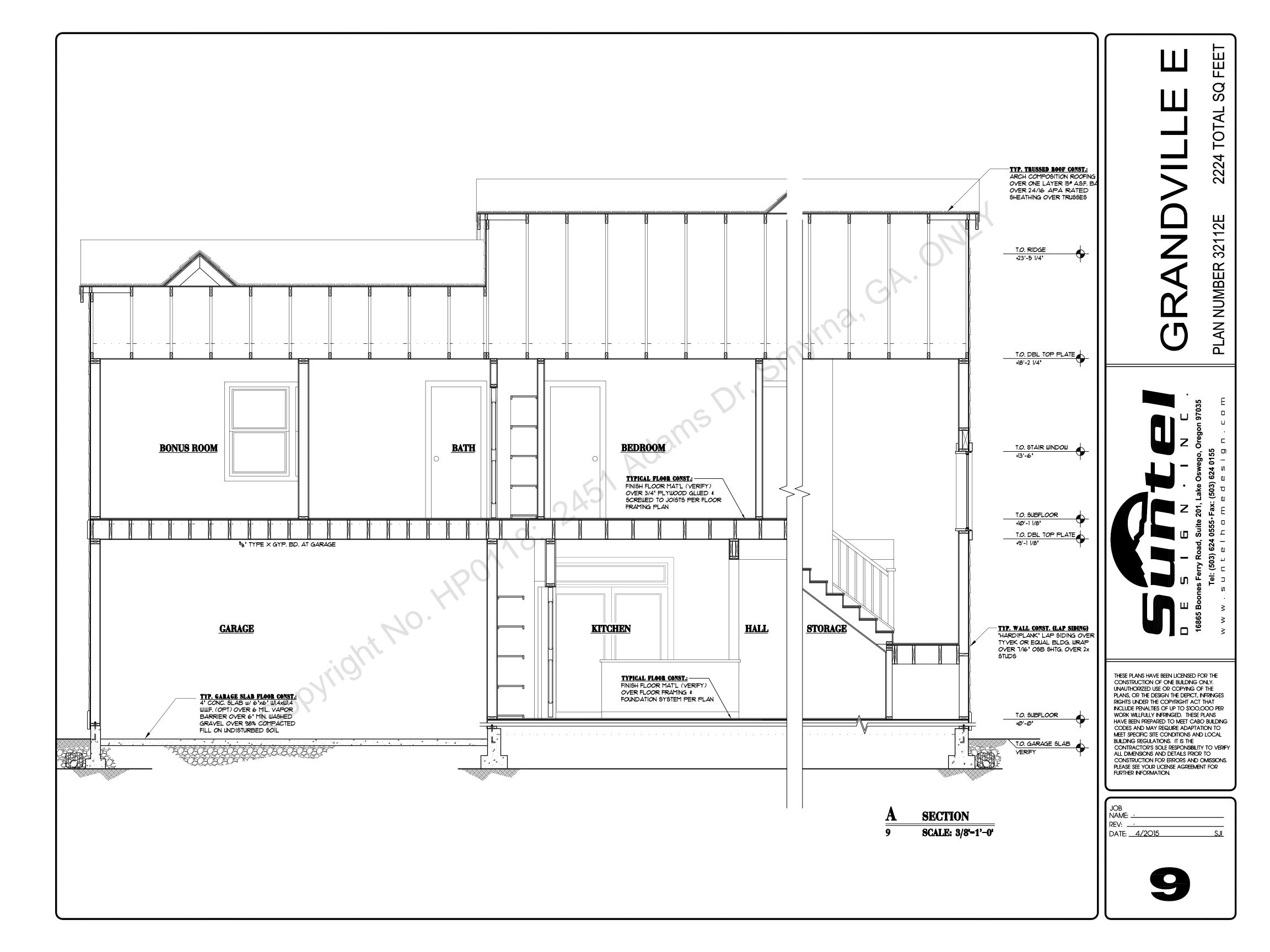


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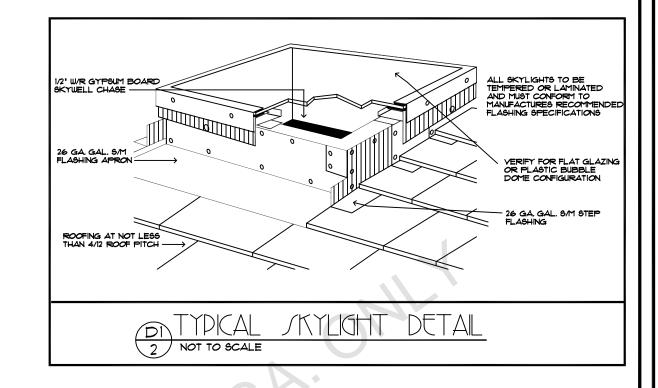
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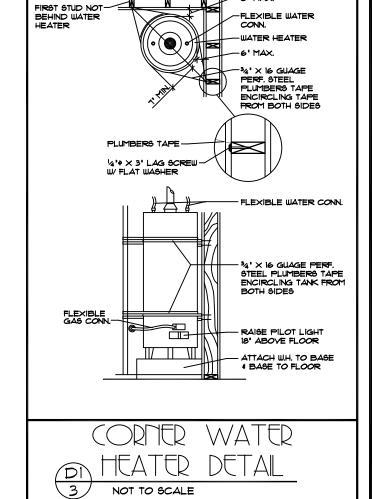
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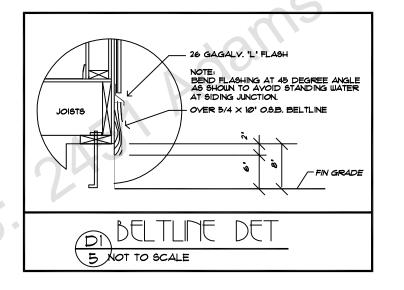


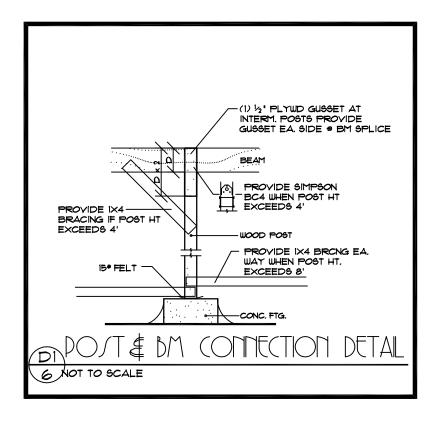
4X4 POSTS 2×6 TOP RAILING CONNECT TO POST 2×2 PICKET AT 5-1/2" O.C. WITH (2) #10×3" SCREWS (MAY BE MAX. ATTACH AT TOP AND (2) HTT4 TENSION TIES WITH FLAT OR VERTICAL) BOTTOM WITH (2)*8 WOOD FIRST LAYER FLASHING BEHIND 5/8" THREADED ROD BUILDING AND LEDGER BOARD, SCREWS PT (2) SPIRAL CONNECTION. APPLY TENSION SHANK NAILS EACH AND OVER SIDING DEVICES AS CLOSE AS SECOND LAYER 'Z' FLASHING POSSIBLE TO EACH END OF 2x4 BOTTOM SIMPSON DTT2Z OR EQUAL-OVER TOP AND DOWN FACE OF THE DECK HOLDOWN WITH (2) 5/8" DIA. RAILING CONNECT LEDGER BOARD GALVANIZED THROUGH TO POST WITH (2) *10×3" SCREWS BOLTS WITH WASHERS DECKING OVER DECK JOIST DECKING -2 imes BLOCKING WITH -DECK JOISTS EXISTING 2X SIMPSON A34 FRAMING \times PER PLAN 2X LEDGER, SAME RIM (BAND) ANGLE EACH SIDE AT AS DECK JOIST EACH END (4 TOTAL) SECURE DECKING TO RIM 2X FLOOR JST W/ #10x3" WOOD SCREWS JOIST 96'O.C. FASTEN JST TO-LUS, OR EQUAL, JOIST JOIST PER 2x RIM JOIST (TO MATCH BEAM W/ (3) 8d HANGER- TO MATCH JOIST 2× STUD WALL-PLAN DECK JST SIZE) WITH (5) SIZE (MIN LUS28) TOE NAIL OR #10×3" WOOD SCREWS AT HI CLIP FOR DECK SPANS 10' OR LESS: EACH JOIST 1/2" DIA GALVANIZED LAG SEE PLAN-SCREWS @ 18" O.C. STAGGERED NOTE: MIN DECK JOIST SIZE: 2x8 FOR BEAM WITH 5' MAX. SPACING SIZE VERTICALLY, W/ MIN. 2" EDGE DIST. (IF SPAN IS GREATER THAN GUARDRAIL ATTACHMENT GUARDRAIL ATTACHMENT LEDGER ATTACHMENT 10' CALL DESIGNER FOR PERPENDICULAR TO JOIST PARALLEL TO JOIST SECTION VIEW SPACING) DECK DETAL) NOT TO SCALE

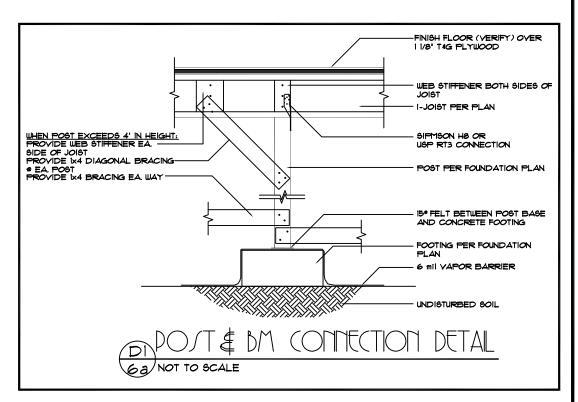




-FLEXIBLE WATER





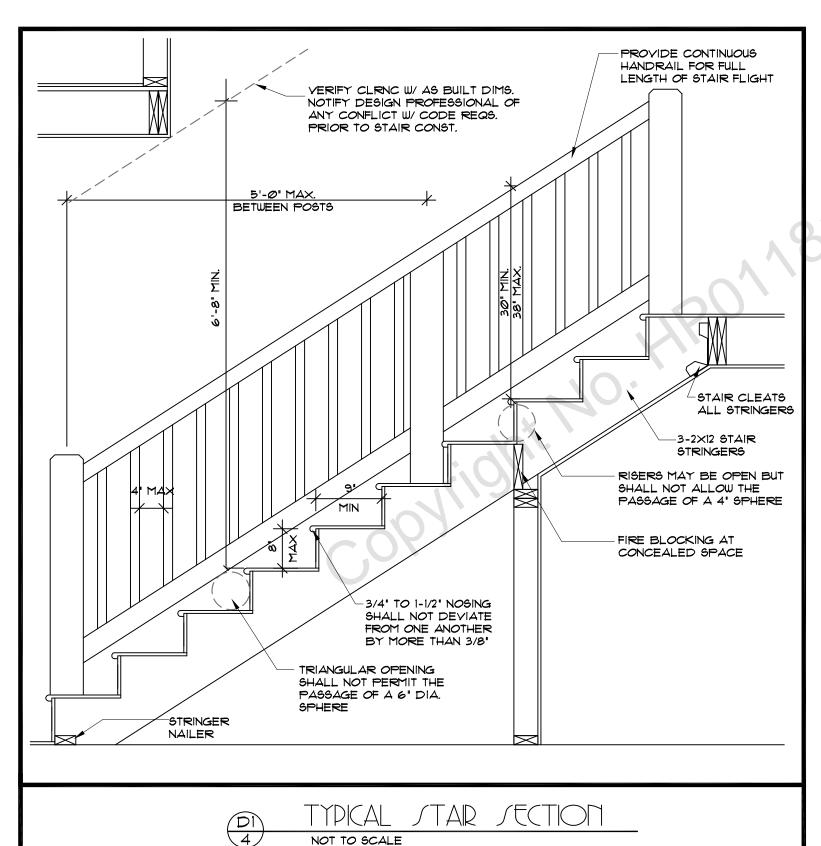




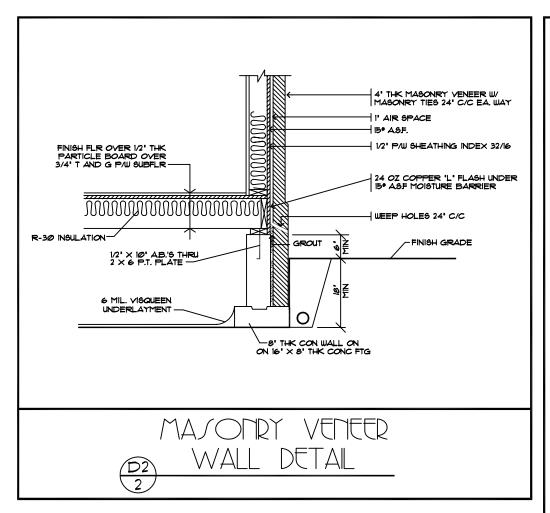
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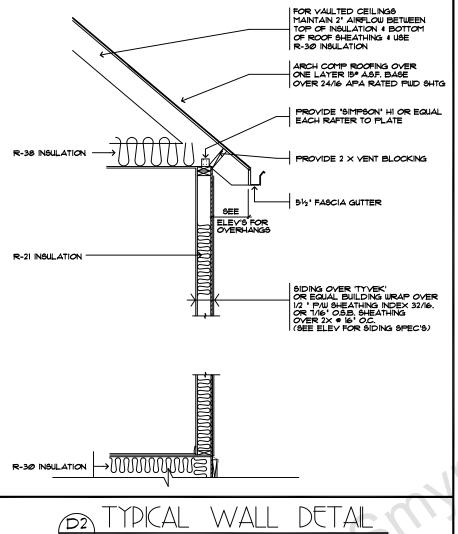
SHEET: DETAILS

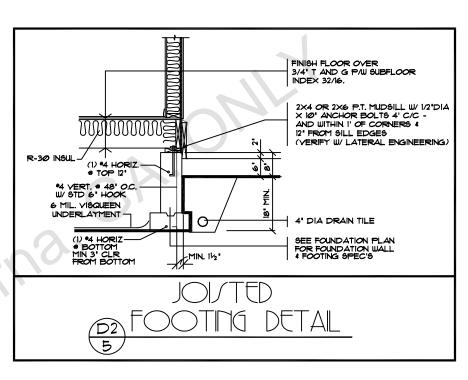
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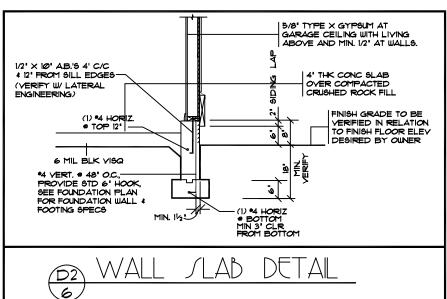


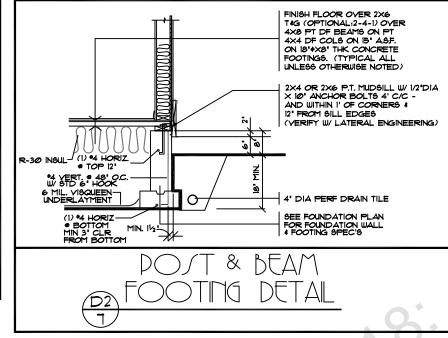
DEAM (REFER TO FRAMING PLAN FOR BEAM SIZE) SEE LAT ENG FOR CONN TYPE (OR SIMPSON CB CONN) 4 × 4 DF COL BU TO 6×6 (UNLESS NOTED OTHERWISE) PT 2 × 4 SPACED DECKING ON PT 2× JOISTS (SEE FRAMING PLAN) SEE LAT ENG FOR CONN TYPE (OR SIMPSON CB CONN) 2 × FASCIA BD BEAM (REFER TO FRAMING PLAN FOR BEAM SIZE) ALL FTGS SUPPORTING ROOFS MUST EXTEND BELOW IS PROST DEPTH OR LOCAL REQ. SIMPSON LU TYPE HANGER SEE FOUNDATION PLAN FOR FOOTING SPEC'S

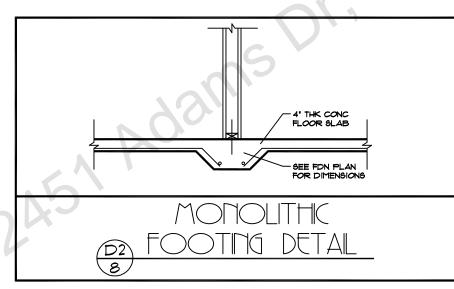


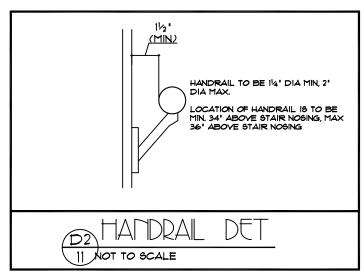


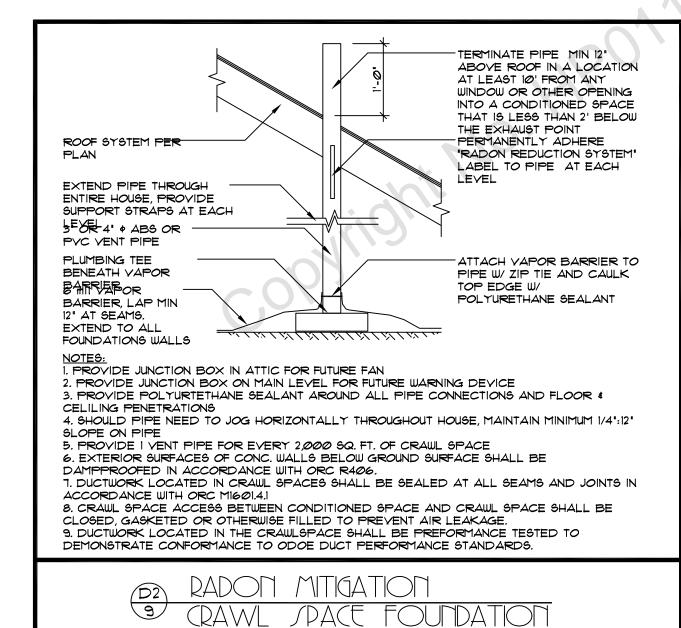


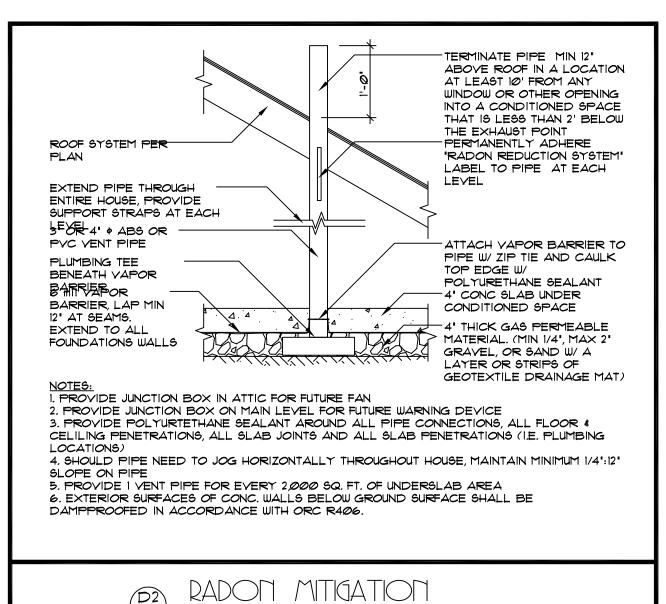












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SHEET: DETAILS

DATE: <u>07/08</u>

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TABLE 602.3(1) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

TADLE 602.3(1) TAST	INCR SCHEDULE FOR S	INGCIGNALI	
DESCRIPTION	N OF BUILDING ELEMENTS	NO. 4 TYPE OF FASTENER abed	SPACING OF FASTENERS
JOIST TO SILL OR GIRDER, TOE NAIL		3-8d	_
1' X 6' SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL		2-8d 2 STAPLES, 134"	_
2' SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL		2-16d	_
SOLE PLATE TO JOIST OR GIRDER, BLIND AND FACE NAIL		16d	16° O.C.
TOP OR SOLE PLATE TO STUD, END NAI	L	2-16d	_
STUD TO SOLE PLATE, TOE NAIL DOUBLE STUDS, FACE NAIL		3-8d OR 2-16d 10d	24' O.C.
DOUBLE TOP PLATES, FACE NAIL		100 100	24' O.C.
SOLE PLATE TO JOIST, SOLID DECK, OF	R BLKG AT BRACED WALL PANELS	3-16d per 16"	_
•	ND JOINTS, FACE NAIL IN LAPPED AREA	8-16d	_
BLOCKING BETWEEN JOISTS OR RAFTER RIM JOIST TO TOP PLATE, TOE NAIL	S TO TOP PLATE, TOE NAIL	3-8d	
TOP PLATES, LAPS AT CORNERS AND I	NTERSECTIONS FACE NAIL	8d 2-10d	6' O.C.
PRESSURE TREATED WOOD	•	ZINC COATED GALY.	_
	27.1277		
BUILT-UP HEADER, TWO PIECES WITH 1/2" CONTINUED HEADER, TWO PIECES	SPACER	16d	16' O.C. ALONG EA EDGE
CIELING JOISTS TO PLATE, TOE NAIL			O.C. ALONG EA EDGE
CONTINUOUS HEADER TO STUD, TOE NAIL		3-8d 4-8d	
CEILING JOIST, LAPS OVER PARTITIONS,		3-10d	
CEILING JOIST TO PARALLEL RAFTERS,		3-10d	
RAFTER TO PLATE, TOE NAIL		2-16d	_
I' BRACE TO EACH STUD AND PLATE, F,	ACE NAII	2-8d	_
BUILT-UP CORNER STUDS		2 STAPLES, 134"	
Built-up CORNER StuDs		10d	24' O.C.
BUILT-UP GIRDERS AND BEAMS, 2-INCH	LUMBER LAYERS	10d	NAIL EACH LAYER AS FOLLOWS: 32" O.C. ® TOF & BOTTOM, STAGGERED TWO NAILS AT ENDS AND AT EACH SPLICE.
2" PLANKS		2-16d	AT EACH BEARING
ROOF RAFTERS TO RIDGE, VALLEY OR	HIP RAFTERS:		
TOE NAIL FACE NAIL		4-16d 3-16d	_
RAFTER TIES TO RAFTERS, FACE		3-8d	_
RAFIER TIES TO RAFIERS, FACE	1		
DESCRIPTION OF	DESCRIPTION OF	SPACING	OF FASTENERS
BUILDING MATERIALS	FASTENER bads	EDGES (IN.)	INTERMEDIATE SUPPORTS ^{CS} (IN.)
PLYWOOD AND WOOD STRUCTURAL AND PARTICLEBOARD WALL SHEA	ALL SHEATHING TO	PRAMING,	
5/16"-1/2"	6d COMMON NAIL (SUBFLOOR, WALL)	6	129
	8d COMMON NAIL (ROOF)		
19/32"-1"	8d COMMON NAIL	6	12 ^g
1 1/8"-1 1/4"	100 COM NAIL OR 80 DEFRMD NAIL	6	12
OTHER WALL SHEATHING h			
		_	
1/2" REGULAR CELLULOSIC FIBERBOARD	1½" GALYANIZED ROOFING NAIL, 6d COM NAIL,	3	6
SHEATHING	STAPLE 16 GA., 1/2 LONG	0,	
		A 70	•
1/2' STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	11/2" GALVANIZED ROOFING NAIL, 8d COM NAIL, STAPLE 16 GA., 11/2" LONG	3	6
	OTALL IN GAL, 1/2 LONG		
25/32" STRUCTURAL CELLULOSIC FIBERBOARD	134" GALVANIZED ROOFING NAIL,	3	6
SHEATHING	8d COM NAIL, STAPLE 16 GA., 134' LONG		
1/2" GYPSUM SHEATHING	the Lead was trained and the same of the s	4	
1/2 GTF30IT SHEATHING	11/2" GALVANIZED ROOFING NAIL, 6d COM NAIL, STAPLE GALVANIZED, 11/2" LONG, 11/4" SCREWS, TYPE W OR S	4	8
5/8" GYPSUM SHEATHING	134" GALVANIZED ROOFING NAIL,	4	8
5/8' GYPSUM SHEATHING	134" GALVANIZED ROOFING NAIL, 8d COM NAIL, STAPLE GALVANIZED, 136" LONG, 136" SCREWS, TYPE W OR S	4	8
	8d COM NAIL, STAPLE GALVANIZED, 15/6" LONG, 15/6" SCREWS, TYPE W OR S		8
PLYWOOD AND WOOD STRUCTURAL PAN	8d COM NAIL, STAPLE GALVANIZED, IB'S' LONG, IB'S' SCREWS, TYPE W OR SELS, COMBINATION SUBFLOOR UNDERLA	YMENT TO FRAMING	
PLYWOOD AND WOOD STRUCTURAL PAN 3/4" AND LESS	8d COM NAIL, STAPLE GALVANIZED, 1% LONG, 1% SCREWS, TYPE W OR SELS, COMBINATION SUBFLOOR UNDERLA	YMENT TO FRAMING	12
PLYWOOD AND WOOD STRUCTURAL PAN	8d COM NAIL, STAPLE GALVANIZED, IB'S' LONG, IB'S' SCREWS, TYPE W OR SELS, COMBINATION SUBFLOOR UNDERLA	YMENT TO FRAMING	

FOR \$1: 1 INCH = 25.4 MM, 1 FOOT = 304.8 MM, 1 MPH = 1.609 KM/H.

1 1/8"-1 1/4"

a, ALL NAILS ARE SMOOTH-COMMON, BOX OR DEFORMED SHANKS EXCEPT WHERE OTHERWISE STATED. NAILS USED FOR FRAMING ANS SHEATHING CONNECTIONS SHALL HAVE MINIMUM AVERAGE BENDING YIELD STRENGTHS AS SHOWN: 80 Kgi (551 MPa) FOR SHANK DIAMETER OF Ø.192" (2001 COMMON NAIL), 90 ksi (620 MPa) FOR SHANK DIAMETERS LARGER THAN Ø.142" BUT NOT LARGER THAN 0.171", AND 100 kei (689 MPa) FOR SHANK DIAMETERS OF 0.142" OR LESS.

OD COM NAIL OR SO DEFORMED NAIL

6. STAPLES ARE 16 GUAGE WIRE AND HAVE A MINIMUM 1/16-INCH O.D. CROWN WIDTH.

C. NAILS SHALL BE SPACED AT NOT MORE THAN 6 INCHES O.C. AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES OR GREATER.

d. FOUR-FOOT-BY-8-FOOT OR 4-FOOT-BY-9-FOOT PANELS SHALL BE APPLIED VERTICALLY.

e. SPACING OF FASTENERS NOT INCLUDED IN THIS TABLE SHALL BE BASED ON TABLE 602.3(2). F. FOR REGIONS HAVING BASIC WIND SPEED OF 110 MPH OR GREATER, 8d DEFORMED NAILS SHALL BE USED FOR ATTACHING PLYWOOD AND WOOD STRUCTURAL PANEL ROOF SHEATHING TO FRAMING WITHIN MINIMUM 48-INCH DISTANCE FROM GABLE END WALLS, IF MEAN ROOF HEIGHT IS MORE THAN 25', UP TO 35' MAXIMUM.

g. FOR REGIONS HAVING BASIC WIND SPEED OF LESS THAN 110 MPH, NAILS FOR ATTACHING WOOD STRUCTURAL PANEL ROOF SHEATHING TO GABLE END WALL FRAMING SHALL BE SPACED 6' O.C. WHEN BASIC WIND SPEED IS GREATER THAN 100 MPH, NAILS FOR ATTACHING PANEL ROOF SHEATHING TO INTERMEDIATE SUPPORTS SHALL BE SPACED 6" O.C. FOR MINIMUM 48" DISTANCE FROM RIDGES, EAVES AND GABLE END WALLS, AND 4" O.C. TO GABLE END WALL FRAMING.

N. GYPSUM SHEATHING SHALL CONFORM TO ASTM C 19 AND SHALL BE INSTALLED IN ACCORDANCE WITH GA 253. FIBERBOARD

SHEATHING SHALL CONFORM TO EITHER AHA 194,1 OR ASTM C 208.

1. SPACING OF FASTENERS ON FLOOR SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND AT ALL ROOF PLANE PERIMETERS ONLY. SPACING OF FASTENERES ON ROOF SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND AT ALL ROOF PLANE PERIMETERS. BLOCKING OF ROOF OR FLOOR SHEATHING PANEL EDGES PERPENDICULAR TO THE FRAMING MEMBERS SHALL NOT BE REQUIRED EXCEPT AT INTERSECTION OF ADJACENT ROOF PLANES. FLOOR AND ROOF PERIMETER SHALL BE SUPPORTED BY FRAMING MEMBERS OR SOLID BLOCKING.

J. INTERIOR NON-BRACED WALL LINES MAY BE NAILED WITH A MINIMUM 4-10d NAILS.

ALL WORK IS TO COMPLY WITH THE LATEST ADOPTED VERSION OF THE ORSC CODE AND ANY APPLICABLE STATE, COUNTY OR LOCAL REGULATIONS. THE CONTRACTOR IS RESPONSIBLE TO CHECK THE PLANS

AND IS TO NOTIFY THE DESIGNER OF ANY ERRORS OR OMISSIONS PRIOR TO THE START OF CONSTRUCTION. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED

DIMENSIONS. 4. DESIGN LOADS: ROOF FLOOR STAIRS

30 PSF (LIVE LOAD) 40 PSF (LIVE LOAD) 100 PSF 125 PSF (2*000** PT) GARAGE FLOOR 75 PSF

(IF YOUR LOCAL AREA REQUIRES DIFFERENT DESIGN LOADS CONSULT WITH A LOCAL STRUCTURAL ENGINEER TO DETERMINE THE APPROPRIATE REVISIONS.)

PROVIDE INSULATION BAFFLES AT EAVE VENTS BETWEEN RAFTERS.

DECKS

ALL SMOKE DETECTORS SHALL BE POWERED BY 110Y CURRENT, CONNECTED TO HOUSE ELECTRICAL SYSTEM. INTERCONNECT WITH EACH ONE SO THAT IF ANY ONE TRIPS THEY WILL ALL SOUND. THEY SHALL ALSO HAVE A BATTERY BACKUP AND BE LOCATED IN EACH BEDROOM AND ON EACH FLOOR LEVEL.

GUARDRAILS SHALL HAVE INTERMEDIATE RAILS SPACED SUCH THAT A SPHERE 4' IN DIA. CANNOT PASS THROUGH

PROVIDE GROUNDING ELECTRODE AT ELECTRICAL SERVICE CONSISTING OF A MINIMUM 20' LENGTH OF $\frac{1}{2}$ " 4 STEEL REINFORCEMENT OF FOOTINGS. ELECTRODE SHALL EXTEND 12" MIN. ABOVE THE PLATE LINE.

THE MAXIMUM AMOUNT OF WATER USED BY NEW PLUMBING FIXTURES:

TOILETS 1.6 GALLONS/FLUSH SHOWER HEADS 2.5 GALLONS/MINUTE 25 GALLONS/MINUTE INTERIOR FAUCETS 10. IN THE EVENT OF CONFLICT BETWEEN PERTINENT CODES AND REGULATIONS AND REFERENCED STANDARDS OF THESE SPECIFICATIONS. THE MORE STRINGENT

PROVISIONS SHALL GOVERN. STRUCTURAL SPECIFICATIONS AND DRAWINGS FOR THIS WORK HAVE BEEN PREPARED IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICE TO MEET MINIMUM REQUIREMENTS OF THE LATEST EDITION OF THE

12. SPECIFICATIONS AND DRAWINGS INDICATE FINISHED STRUCTURE. BUILDER SHALL BE RESPONSIBLE FOR CONSTRUCTION METHODS, PROCEDURES, AND CONDITIONS (INCLUDING SAFETY), EXCEPT AS SPECIFICALLY

INDICATED OTHERWISE IN THE CONTRACT DOCUMENTS 13. CONSTRUCTION LOADS SHALL NOT OVERLOAD STRUCTURE NOR SHALL THEY BE IN EXCESS OF DESIGN LOADINGS INDICATED ON DRAWINGS.

. BUILDER SHALL VERIFY ALL MATERIALS, DIMENSIONS AND CONDITIONS SHOWN ON STRUCTURAL DRAWINGS OR NOTED IN STRUCTURAL SPECIFICATIONS. ANY VARIANCES WITHIN STRUCTURAL DRAWINGS AND SPECIFICATIONS, OR WITHIN CONDITIONS ENCOUNTERED AT JOB SITE. SHALL BE REPORTED TO OWNER IN WRITING BEFORE COMMENCEMENT OF ANY WORK EFFECTED BY SUCH YARIANCE.

15. BUILDER SHALL RIGIDLY ADHERE TO ALL LAWS, CODES, AND ORDINANCES WHICH APPLY TO THIS WORK, HE SHALL NOTIFY AND RECEIVE CLARIFICATION FROM OWNER IN WRITING OF ANY VARIATIONS BETWEEN CONTRACT DOCUMENTS AND GOVERNING REGULATIONS.

ALL MANUFACTURED MATERIALS, COMPONENTS FASTENERS, ASSEMBLIES, ETC., SHALL BE HANDLED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND PROVISIONS OF APPLICABLE ICBO RESEARCH RECOMMENDATIONS, WHERE SPECIFIC MANUFACTURED PRODUCTS ARE CALLED FOR GENERIC EQUALS WHICH MEET APPLICABLE STANDARDS AND SPECIFICATIONS MAY BE USED.

17. NO VARIANCE BY A BUILDING OFFICIAL SHALL BE

BINDING ON DESIGNERS. 18. BUILDER SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESS POOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH ITEMS ARE FOUND,

OWNER SHALL BE NOTIFIED IMMEDIATELY. 19. CARBON MONOXIDE DETECTORS SHALL BE PROVIDED IN ANY HOME WITH A GAS APPLIANCE. ONE SHALL BE LOCATED WITHIN EACH BEDROOM OR WITHIN 15' OR OF EACH BEDROOM DOOR, BEDROOMS ON SEPARATE FLOORS REQUIRE SEPARATE DETECTORS.

ALL EXPOSED INSULATION IS TO HAVE A FLAME SPREAD RATING OF LESS THAN 25 & A SMOKE DENSITY RATING OF LESS THAN 450.

PERIMETER CONC. WALLS TO BE PROTECTED W/ RIGID FIBERBOARD INSULATION FROM TOP OF CONC WALL TO NOT LESS THAN 24" BELOW GRADE.

SLAB EDGE INSULATION IS TO BE R-15. HEATING DUCTS TO BE INSULATED W/ R-8

5. WINDOWS SHALL MEET REQUIRED U FACTORS FOR THE CONTRACTORS CHOSEN PATH OF COMPLIANCE SEE TABLE NIIØ4.I(1)

ONE EXTERIOR DOOR MAY BE INSULATED TO A U-FACTOR OF 020. ALL OTHER EXTERIOR DOORS MAY NOT EXCEED 0.54.

FRAMING NOTES

ARE TO BE HUNG WITH 'SIMPSON' LU TYPE OR EQUIV. 26. DOUBLE JOISTS THAT ARE ATTACHED TO FLUSH BMS ARE TO BE HUNG WITH "SIMPSON" LUS TYPE OR EQUIV.

PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS OVER.

5. LUMBER SPECIES: A. POSTS, BEAMS, HEADERS

JOISTS AND RAFTERS B. SILLS, PLATES, BLOCKING BRIDGING, ETC. C. STUDS

D. POST AND BEAM DECKING E. PLYWOOD SHEATHING F. GLU-LAM BEAMS

6. <u>NAILING SCHEDULE</u> SEE TABLE 602.3(1)

NOTCHES IN SOLID LUMBER JOISTS, RAFTERS, AND BEAMS SHALL NOT EXCEED ONE-SIXTH OF THE DEPTH OF THE MEMBER, SHALL NOT BE LONGER THAN ONE-THIRD OF THE DEPTH OF THE MEMBER AND SHALL NOT BE LOCATED IN THE MIDDLE ONE-THIRD OF THE SPAN, NOTCHES AT THE ENDS OF THE MEMBER SHALL NOT EXCEED ONE-FOURTH THE DEPTH OF THE MEMBER. THE TENSION SIDE OF MEMBERS 4" (102mm) OR GREATER IN NOMINAL THICKNESS SHALL NOT BE NOTCHED EXCEPT AT ENDS OF THE MEMBERS. THE DIAMETER OF HOLES BORED OR CUT INTO MEMBERS SHALL NOT EXCEED ONE-THIRD THE DEPTH OF THE MEMBER. HOLES SHALL NOT BE CLOSER THAN 2" TO THE TOP OR BOTTOM OF THE MEMBER, OR TO ANY OTHER HOLE LOCATED IN THE MEMBER. WHERE THE MEMBER IS ALSO NOTCHED, THE HOLE SHALL NOT BE CLOSER THAN 2' (51mm) TO THE NOTCH

B. STUDS IN AN EXTERIOR WALL OR LOAD-BEARING PAR-TITIONS SHALL BE PERMITTED TO BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25% OF ITS WIDTH. STUDS IN NON-LOAD-BEARING PARTITIONS SHALL BE PERMITTED TO BE NOTCHED TO A DEPTH NOT TO EXCEED 40% OF A SINGLE STUD WIDTH. STUDS SHALL BE PERMITTED TO BE BORED OR DRILLED, PROVIDED THAT THE DIAMETER OF THE RESULTING HOLE IS NO GREATER THAN 40% OF THE STUD WIDTH, THE EDGE OF THE HOLE IS NO CLOSER THAN 5/8" (15.9mm) TO THE EDGE OF THE STUD, AND THE HOLE IS NOT LOCATED IN THE SAME

B. INSTALL ALL HORIZONTAL MEMBERS WITH CROWN UP. 10. ALL MEMBERS IN BEARING SHALL BE ACCURATELY CUT AND ALIGNED SO THAT FULL BEARING IS PROVIDED WITHOUT USE OF SHIMS. BEARING POSTS SHALL HAVE

ALL JOISTS SHALL HAVE A MINIMUM OF 2" BEARING AT SUPPORTS. LAPPING JOISTS SHALL HAVE 6' LAPS

LEDGERS AND STUD WALL FOUNDATION SILL PLATES SHALL BE BOLTED TO CONCRETE W/ ANCHOR BOLTS OF SIZE AND MINIMUM SPACING AS SHOWN ON DRAWINGS. AT LEAST TWO BOLTS SHALL BE PROVIDED FOR EACH

ALL PLYWOOD WALL SHEATHING SHALL BE APPLIED AS FOLLOWS: CENTER VERTICAL JOINTS OVER STUDS AND CENTER HORIZONTAL JOINT OVER 2" BLOCKING OR PLATE NAIL TOP OF PANELS TO DOUBLE APPLY GYPSUM BOARD SO THAT END JOINTS OF

EACH BEDROOM TO HAVE A MINIMUM WINDOW OPENING OF 5.7 SQ FT WITH A MIN. WIDTH OF 20' AND A MIN. HEIGHT OF 22' AND A SILL LESS THAN 44' OFF THE FLOOR.

24' OF ANY DOOR ARE TO HAVE TEMPERED GLAZING. SEE SECTION R308.4 IN ORSC FOR ADDITIONAL INFO. 3. SKYLITES ARE TO BE GLAZED WITH TEMPERED GLASS ON OUTSIDE AND LAMINATED GLASS ON INSIDE (UNLESS

2 X CURB WITH MINIMUM OF 4" ABOVE ROOF PLANE. 4. ALL TUB OR SHOWER ENCLOSURES ARE TO BE GLAZED

5. ALL EXTERIOR WINDOWS ARE TO BE DOUBLE GLAZED AND ALL EXTERIOR DOORS ARE TO BE SOLID CORE WITH WEATHERSTRIPPING. PROVIDE 1/2" DEADBOLT LOCKS ON ALL EXTERIOR DOORS AND LOCKING DEVICES ON ALL DOORS OR WINDOWS WITHIN 10' (VERTICAL) OF GRADE.

PROVIDE COMBUSTION AIR VENTS (W/ SCREEN AND

. BATHROOMS AND UTILITY ROOMS ARE TO BE VENTED TO THE OUTSIDE WITH A MINIMUM OF A 90 CFM FAN AND CONTROLLED BY A DE-HUMIDISTAT, TIMER OR SIMILAR MEANS OF CONTROL RANGE HOODS ARE ALSO TO BE VENTED TO OUTSIDE.

ALL EXTERIOR WALL AND BEARING WALL OPENINGS TO HAVE 4X12 HEADERS UNLESS OTHERWISE INDICATED JOISTS THAT ARE ATTACHED TO FLUSH BEAMS

PROVIDE FIREBLOCKING, DRAFTSTOPS & FIRESTOPS AS PER THE ORSC SEC R6028

NO.2 DOUG FIR

NO.3 DOUG FIR STUD GRADE D.F.

UTILITY GRADE D.F. 1/2" CDX PLY, 32/16 16-2400, DRY ADH.

SECTION AS A CUT OR NOTCH

FULL BLOCKING OR SUPPORT UNDER

CENTERED OVER INTERIOR SUPPORTS.

PIECE W/ ONE BOLT WITHIN 12" OF EACH END.

AND NAIL BOTTOM OF PANELS TO ANCHORED SILL PLATE. ADJACENT COURSE DO NOT OCCUR AT THE SAME STUD.

2. ALL WINDOWS WITHIN 18" OF THE FLOOR AND WITHIN

PLEXIGLAS). GLASS TO HAVE MAXIMUM CLEAR SPAN OF 25". SKYLITE FRAME IS TO BE ATTACHED TO A

WITH SAFETY GLAZING.

PROVIDE PEEP-HOLE @ 54' - 66' ABOVE FLOOR ON EXTERIOR DOORS.

BACK DAMPER) FOR FIREPLACES, WOOD STOVES AND ANY APPLIANCES WITH AN OPEN FLAME.

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THESE PLANS HAVE BEEN LICENSED FOR THE CONSTRUCTION OF ONE BUILDING ONLY. UNAUTHORIZED USE OR COPYING OF THE PLANS OR THE DESIGN THE DEPICT INFRINGES. RIGHTS UNDER THE COPYRIGHT ACT THAT INCLUDE PENALTIES OF UP TO \$100,000 PER WORK WILLFULLY INFRINGED. THESE PLANS HAVE BEEN PREPARED TO MEET CABO BUILDING CODES AND MAY REQUIRE ADAPTATION TO MEET SPECIFIC SITE CONDITIONS AND LOCAL BUILDING REGULATIONS. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND DETAILS PRIOR TO CONSTRUCTION FOR ERRORS AND OMISSIONS. PLEASE SEE YOUR LICENSE AGREEMENT FOR FURTHER INFORMATION.

SHEET: <u>NOTES</u>

DATE: <u>07/08</u>

ELECTRICAL REQUIREMENTS*

LIGHTING REQUIREMENTS:

STAIRWAY LIGHTING CONTROL:

AT LEAST ONE WALL SWITCH-CONTROLLED LIGHTING OUTLET SHALL BE INSTALLED IN EVERY HABITABLE ROOM AND IN BATHROOMS, HALLWAYS, STAIRWAYS, ATTACHED GARAGES, DETACHED GARAGES PROVIDED WITH ELECTRICAL POWER AND AT THE EXTERIOR SIDE OF EGRESS DOORS.

ALL INTERIOR AND EXTERIOR STAIRWAYS SHALL BE PROVIDED WITH A MEANS OF ILLUMINATION TO THE STAIR, INCLUDING THE LANDINGS AND TREADS, TO BE CONTROLLED BY A WALL SWITCH AT EACH FLOOR LEVEL. INTERIOR STAIRS SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE LOCATED IN THE IMMEDIATE VICINITY OF EACH LANDING AT THE TOP AND BOTTOM OF THE STAIR. EXTERIOR STAIRS SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE LOCATED IN THE IMMEDIATE VICINITY OF THE TOP LANDING OF THE STAIR. EXCEPTION: WHERE THE DIFFERENCE BETWEEN FLOOR LEVELS REQUIRES LESS THAN 6 STAIR RISERS.

FIXTURES IN CLOTHES CLOSETS:

SURFACE MOUNTED FLUORESCENT FIXTURES SHALL BE INSTALLED ON THE WALL

ABOVE THE DOOR OR ON THE CEILING, PROVIDED THERE IS A MINIMUM

CLEARANCE OF 6' BETWEEN THE FIXTURE AND THE NEAREST POINT OF A

STORAGE SPACE. WET OR DAMP LOCATIONS:

FIXTURES INSTALLED IN WET OR DAMP LOCATIONS SHALL BE INSTALLED SO THAT WATER CANNOT ENTER OR ACCUMULATE IN WIRING COMPARTMENTS, LAMPHOLDERS OR OTHER ELECTRICAL PARTS. ALL FIXTURES INSTALLED IN WET LOCATIONS SHALL BE MARKED 'SUITABLE FOR WET LOCATIONS'. ALL FIXTURES INSTALLED IN DAMP LOCATIONS SHALL BE MARKED 'SUITABLE FOR WET LOCATIONS'.

LIGHT SWITCH ACCESS

ALL SWITCHES SHALL BE LOCATED TO ALLOW OPERATION FROM A READILY ACCESSIBLE LOCATION.

RECEPTACLE OUTLET REQUIREMENTS

IN EVERY KITCHEN, FAMILY ROOM, DINING ROOM, LIVING ROOM, DEN, BEDROOM, OR SIMILAR ROOM OR AREA OF DWELLING UNITS, RECEPTACLE OUTLETS SHALL BE INSTALLED SO THAT NO POINT ALONG THE FLOOR LINE IN ANY WALL SPACE IS MORE THAN 6 FEET, MEASURED HORIZONTALLY FROM AN OUTLET IN THAT SPACE, INCLUDING ANY WALL SPACE THAT IS 2 FEET OR MORE IN WIDTH.

RECEPTACLE OUTLETS, WITH GFI PROTECTION, SHALL BE INSTALLED EVERY 24'
ON ALL COUNTER SPACES THAT MEASURE 12' OR WIDER

BATHROOMS:
AT LEAST ONE WALL RECEPTACLE OUTLET, WITH GFI PROTECTION, SHALL BE INSTALLED IN BATHROOMS ADJACENT TO EACH BASIN LOCATION.

AT LEAST ONE RECEPTACLE OUTLET, WITH GFI PROTECTION, SHALL BE INSTALLED OUTDOORS AT THE FRONT AND BACK OF EACH DWELLING UNIT HAVING DIRECT ACCESS TO GRADE.

HALLWAYS:
HALLWAYS OF 10 FEET OR MORE IN LENGTH SHALL HAVE AT LEAST ONE
RECEPTACLE OUTLET.

HYAC OUTLET:

A CONVENIENCE RECEPTACLE OUTLET SHALL BE INSTALLED FOR THE SERVICING OF HEATING, AIR-CONDITIONING AND REFRIGERATION EQUIPMENT LOCATED IN ATTICS AND CRAWL SPACES.

WET LOCATIONS:

A RECEPTACLE INSTALLED IN A WET LOCATION SHALL BE IN A WEATHER PROOF ENCLOSURE, THE INTEGRITY OF WHICH IS NOT AFFECTED WHEN THE ATTACHMENT

*ADDITIONAL INFORMATION CAN BE FOUND IN THE OREGON RESIDENTIAL SPECIALTY CODE BOOK IN SECTIONS:

E37-404 SWITCHES
E37-406 RECEPTACLE OUTLETS

E37-410 LIGHTING OUTLETS

HIGH-EFFICIENCY INTERIOR LIGHTING SYSTEM

A MINIMUM OF 50% OF THE PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE COMPACT OR LINEAR FLOURESCENT, OR A LIGHTING SOURCE THAT HAS A MINIMUM EFFICANCY OF 40 LUMENS PER INPUT WATT. SCREW-IN COMPACT FLOURESCENT LAMPS COMPLY WITH THIS REQUIREMENT.

TABLE 1101.1(2) ADDITIONAL MEASURES

	1	HIGH EFFICIENCY WALLS: EXTERIOR WALLS - U-0.045/R-21 CAVITY INSULATION + R-5 CONTINUOUS
MEASURES	2	UPGRADED FEATURES: EXTERIOR WALLS - U-0.057/R-23 INTERMEDIATE OR R-21 ADVANCED FRAMED FLOORS - U-0.026/R-38, AND WINDOWS - U-0.28 (AVERAGE UA)
TENT ONE U	3	UPGRADED FEATURES: EXTERIOR WALLS - U-0.055/R-23 INTERMEDIATE OR R-21 ADVANCED FLAT CEILINGS (e) - U-0.017/R60, AND FRAMED FLOORS - U-0.026/R-38
ENHANCEN (SELECT (4	SUPER INSULATED WINDOWS AND ATTIC OR FRAMED FLOORS: WINDOWS - U-0.22 (TRIPLE PANE LOW E), AND FLAT CEILINGS (e) - U-0.017/R60 OR FRAMED FLOORS - U-0.026/R-38
ENVELOPE	5	AIR SEALING HOME AND DUCTS: MANDATORY AIR SEALING OF ALL WALL COVERINGS AT TOP PLATE AND AIR SEALING CHECKLIST (F) AND MECHANICAL WHOLE-BUILDING VENTILATION SYSTEM WITH RATES MEETING MIBØ3 OR ASHRAE 62.2, AND ALL DUCTS AND AIR HANDLERS CONTAINED WITHIN BUILDING ENVELOPE (d) OR ALL DUCTS SEALED WITH MASTIC (b)
	6	HIGH EFFECIENCY HVAC SYSTEM: PROPOSED UA IS 8% LOWER THAN THE CODE UA
ASURE	Д	HIGH EFFECIENCY HYAC SYSTEM: GAS FIRED FURNACE OR BOILER AFUE 94%, OR AIR SOURCED HEAT PUMP HSPF 9.5/15,0 SEER COOLING, OR GROUND SOURCED HEAT PUMP COP 3.5 OR ENERGY STAR RATED
RVATION MEA	В	DUCTED HYAC SYSTEMS WITHIN CONDITIONED SPACE: ALL DUCTS AND AIR HANDLERS CONTAINED WITHIN BUILDING ENVELOPE (d) CANNOT BE COMBINED WITH MEASURE 5
ERVA:	С	DUCTLESS HEAT PUMP: DUCTLESS HEAT PUMP HSPF 10.0 IN PRIMARY ZONE OF DWELLING:
CONSE!	D	HIGH EFFECIENCY WATER HEATER: NATURAL GAS / PROPANE WATER HEATER WITH UEF Ø.85 OR ELECTRIC HEAT PUMP WATER HEATER TIER I NORTHERN CLIMATE SPECIFICATION PRODUCT

FOR SI: 1 SQUARE FOOT = 0.093 M(2), 1 WATT PER SQUARE FOOT = 10.8 W/M(2)

Appliances located within the building thermal envelope shall have sealed combustion air installed. Combustion air shall be ducted directly from the outdoors.

b. All duct joints and seams sealed with listed mastic: tape is only allowed at appliance or equipment connections (for service and replacement). Meet sealing criteria of Performance Tested Comfort System program administered by the Bonneville Power Administration (BPA).

. Residential water heaters less than 55 gallon storage volume. . A total of 5 percent of an HVAC system's ductwork shall be permitted to be located outside of the conditioned space. Ducts located outside

the conditioned space shall have insulation installed as required in this code. 3. The maximum vaulted ceiling surface area shall not be greater than 50 percent of the total heated floor space unless vaulted area has a

U-factor no greater than U-0026.

E. Continuous air barrier. Additional requirement for sealing of all interior vertical wall covering to top plate framing. Sealing with foam gasket,

caulk or other approved sealant listed for sealing wall covering material to structural material (example: gypsum board to wood stud framing).

Table NII04.1(1) Standard base case design. Code UA shall be at least 8 percent less than the Proposed UA. Buildings with fenestration less than

15 percent of the total vertical wall area may adjust to the Code UA to have 15 percent of the wall area as fenestration.

TABLE N1101.1(1) PERSCRIPTIVE ENVELOPE REQUIREMENTS		
BUILDING COMPONENT	MIN. REQUIRED VALUE	
WALL INSULATION- ABOVE GRADE	R-21	
WALL INSULATION- BELOW GRADE	R-15/R21	
FLAT CEILINGS	R-49	
VAULTED CEILINGS	R-30 RAFTER OR R-30A gh SCISSOR TRUSS	
UNDERFLOORS	R-3Ø	
6LAB EDGE PERIMETER	R-15	
HEATED SLAB INTERIOR	R-10	
WINDOWS	u-030	
SKYLIGHTS	u- <i>0.50</i>	
EXTERIOR DOORS	u-020	
EXTERIOR DRS W/ 2.5 SQ. FT. GLAZING	u- <i>0.</i> 40	
FORCED AIR DUCT INSULATION	R-8	

a. As allowed in Section NIIII.4, thermal performance of a component may be adjusted provided that overall heat loss does not exceed the total resulting from conformance to the required U-value standards. Calculations to document equivalent heat loss shall be performed using the procedure and approved U-values contained in Table NIIIII.

b. R-values used in this table are nominal, for the insulation only in standard wood frameed construction and not for the entire assembly.

c. Wall insulation requirements apply to all exterior wood framed, concrete or masonry walls that are above grade. This includes cripple walls and rim joist areas. Nominal compliance with R-21 insulation and intermediate Framing (NIIO4.5.2) with insulated heaters.

e. Below-grade wood, concrete or masonry walls include all walls that are below grade and do not include those portions of such walls that extend more than 24 inches above grade.
R-21 for insulation in framed cavity: R-15 continuous insulation.

f. Insulation levels for ceilings that have limited attic/rafter depth such as dormers, bay windows or similar featrues totaling not more than 150 squaur feet in area may be reduced to not less than R-21. when reduced, the cavity shall be filled (except for required vent spaces) R-49 insulation installed to minimum 6-inches depth at top plateat exterior of structure to achieve U-factor

g. Vaulted ceiling surface area exceeding 50 percent of the total heated space floor area shall have a U-factor no greater than U-0.026 (equivalent to R-38 rafter or scissor truss with R-38 advanced framing)

i. Heated slab interior applies to concrete slab floors (both on and below grade) that incorporate a radiant heating system within the slab. Insulation shall be installed underneath the entire slab

j. Sliding glass doors shall comply with window performance requirements.

k Reduced area may not be used as a trade off criterion for thermal performance of any component.

I. Skylight area installed at 2 percent or less of total heated floor area shall be deemed to satisfy this requirement with vinyl, wood or thermally broken aluminum frames and double-pane glazing with low-emissivity coatings. Skylight U-facor is tested in the 20 degree overhead plane in accordance with NFRC standards.

m. A maximum of 28 square feet of exterior door area per dwelling unit can have a U-factor of .54 or less.

n. Glazing that is either double pane with low-e coating on one surface, or triple pane shall be deemed to comply with this u-30 requirement.

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SHEET: NOTES

DATE: <u>07/08</u>

N2

FOUNDATION NOTES

- FOOTINGS ARE TO BEAR ON UNDISTURBED LEVEL SOIL DEVOID OF ANY ORGANIC MATERIAL AND STEPPED AS REQUIRED TO MAINTAIN THE REQUIRED DEPTH BELOW THE FINAL GRADE.
 SOIL BEARING PRESSURE ASSUMED TO BE 1500 PSF.
- ANY FILL UNDER GRADE SUPPORTED SLABS TO BE A MINIMUM OF 4' GRANULAR MATERIAL COMPACTED TO 95%.
 CONCRETE TO DEVELOP A MIN. OF 3000 PSI AT 28 DAYS
- WITH A MIN. OF 6 SACKS OF CEMENT PER YARD AND A MAXIMUM SLUMP OF 4".

 5. CONCRETE SLABS TO HAVE CONTROL JOINTS AT 25' (MAXIMUM) INTERVALS EA. WAY.

 6. CONCRETE SIDEWALKS TO HAVE 3/4" TOOLED JOINTS
- AT 5' O.C. (MINIMUM)

 1. REINFORCING STEEL TO BE A-615 GRADE 40. WELDED
- REINFORCING STEEL TO BE A-615 GRADE 40. WELDE WIRE MESH TO BE A-185.
 EXCAVATE THE SITE TO PROVIDE A MINIMUM OF 18"
- CLEARANCE UNDER ALL GIRDERS.

 9. COVER ENTIRE CRAWLSPACE WITH 6 MIL BLACK
- "VISQUEEN" AND EXTEND UP FOTN. WALLS TO P.T. MUDSILL.

 10. PROVIDE A MINIMUM OF I SQ FT OF VENTILATION AREA
 FOR EACH 150 SQ FT OF CRAWLSPACE AREA. VENTS
 ARE TO BE CLOSABLE WITH 1/4" OPENINGS IN CORROSIVE
 RESISTANT SCREEN
- 11. ALL WOOD IN CONTACT WITH CONCRETE TO BE PRESSURE TREATED OR PROTECTED WITH 30* ROLL ROOFING.
 12. BEAM POCKETS IN CONCRETE TO HAVE 1/2" AIRSPACE
- AT SIDES AND ENDS WITH A MINIMUM BEARING OF 3".

 13. PROVIDE CRAWLSPACE DRAIN AS PER SEC. R405.1 OF

 ORSC

 14. THE GRADE AWAY FROM FND WALLS SHALL FALL 6" MIN.
- WITHIN FIRST 10'.

 15. SLOPE FOR PERMANENT FILLS AND CUT SLOPES SHALL

 NOT EXCEED 2 UNITS HORIZ. TO 1 UNIT VERT.
- 16. BACKFILL SHALL NOT BE PLACED UNTIL WALL HAS SUFFICIENT STRENGTH AND HAS BEEN ANCHORED TO FLOOR ABOVE ON WALLS W/ MORE THAN 4' UNBALANCED BACKFILL.
- 17. BUILDER SHALL BE RESPONSIBLE FOR SUPPORT OF ALL TEMPORARY EMBANKMENTS AND EXCAVATIONS. 18. FOOTINGS SHALL BE FOUNDED ON FIRM, UNDISTURBED,
- NATIVE, FREE DRAINING SOILS. CONDITIONS FOUND TO BE OTHERWISE SHALL BE REPORTED TO OWNER.

 19. ALL GROUND OVER WHICH FOOTINGS AND SLABS-ON-GRADE ARE TO BE PLACED SHALL BE FREE OF
- EXPANSIVE OR COMPRESSIBLE DEBRIS AND ORGANIC MATERIAL.

 20. FOOTINGS AND SLABS-ON-GRADE CONCRETE SHALL NOT BE PLACED ON MUDDY OR FROZEN GROUND.

 SUB-GRADE FOR SLABS-ON-GRADE WHERE VAPOR BARRIER IS NOT REQUIRED SHALL BE DAMP AT TIME

OF CONCRETE PLACEMENT.

- . WOOD SOLE PLATES AT ALL EXTERIOR WALLS ON MONOLITHIC SLABS, AT ALL INTERIOR BRACE WALL PANELS ON MONOLITHIC SLABS AND AT ALL WOOD SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WTIH MIN 1/2 "XI2" J BOLTS AT 6' O.C. A Ø.229" x3" x3" WASHER SHALL BE TIGHTENED ON EACH ANCHOR BOLT. INSTALL MIN (2) BOLTS AT THE MIDDLE THIRD POINTS OF EACH PLATE.
- 22. FOUNDATION WALLS BELOW GRADE SHALL BE
 DAMPROOFED FROM TOP OF THE FOOTING TO FINISHED
 GRADE WITH ANY OF THESE OPTIONS: I/BITUMINOUS
 COATING: 2) I/8' COATING OF SURFACE BONDING CEMENT
 COMPLYING WITH ASTCM C 881: 3) 55 LB ROLL
 ROOFING: 4) 6 MIL POLYETHYLENE: 5) 40 MIL FLEXIBLE
 POLYMER CEMENT.

TRUSS NOTE

SUBMIT TRUSS DESIGN FOR ENGINEERING PRIOR TO FABRICATION & VERIFY LOCATION OF GIRDER TRUSSES W/ TRUSS COMPANY PRIOR TO FORMING FOUNDATION WALLS AS TO PROVIDE FOR ADDITIONAL LOADING FROM VARYING TRUSS DESIGN.

VERIFY ALL TRUSS SPANS & CONFIGURATIONS ON JOB SITE PRIOR TO FABRICATION.

SECTION N1107

A MINIMUM OF FIFTY PERCENT OF THE PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE COMPACT OR LINEAR FLUORESCENT, OR A LIGHTING SOURCE THAT HAS A MINIMUM EFFICACY OF 40 LUMENS PER INPUTT WATT.

SCREW-IN COMPACT FLORESCENT LAMPS COMPLY WITH THIS REQUIREMENT.

THE BUILDING OFFICIAL SHALL BE
NOTIFIED IN WRITING AT THE FINAL
INSPECTION THAT A MINIMUM OF FIFTY
PERCENT OF THE PERMANENTLY INSTALLED
LIGHTING FIXTURES ARE COMPACT PR
LINEAR FLUORESCENT, OR A MINIMUM
EFFICACY OF 40 LUMENS PER INPUT WATT.