

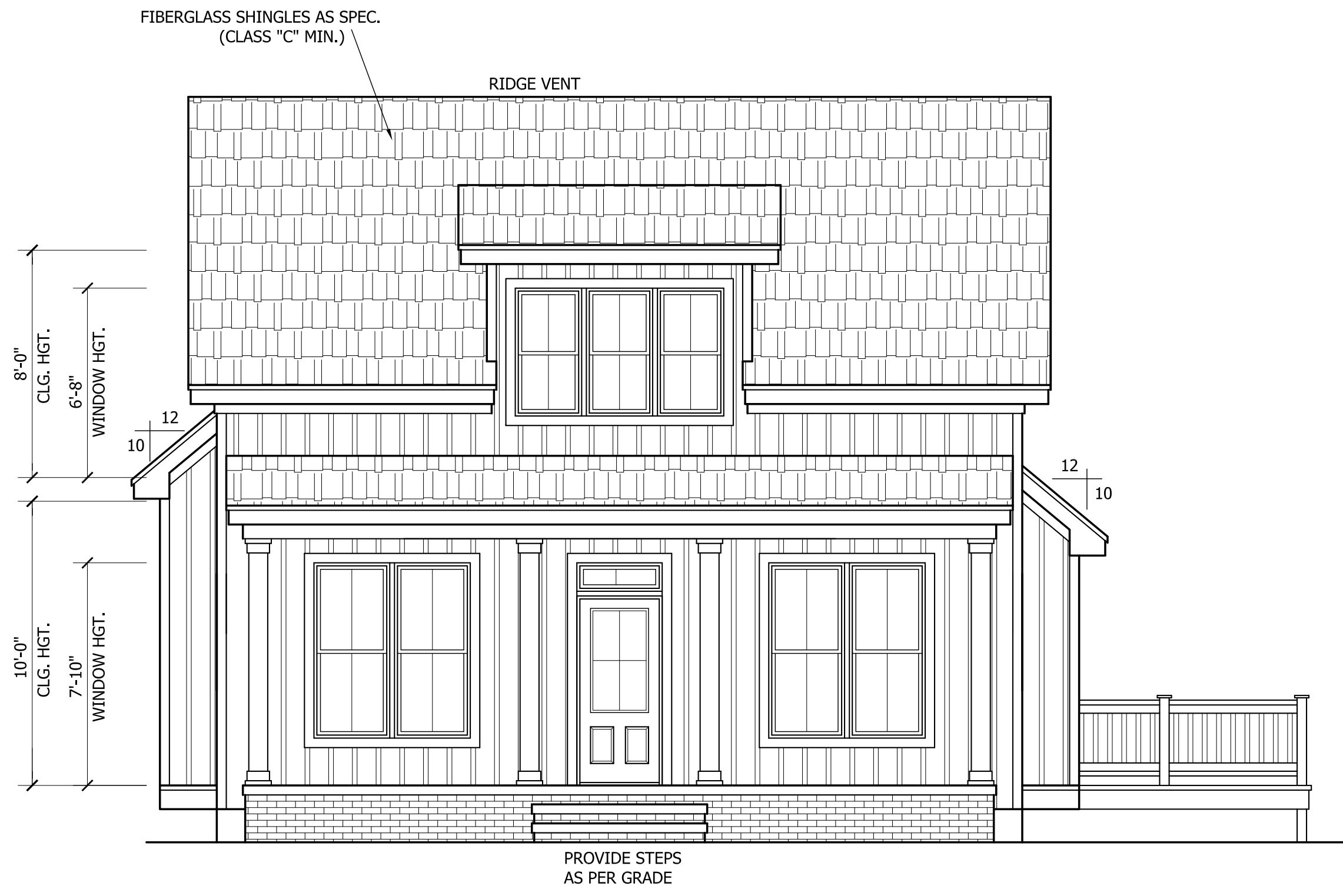
THIS PLAN HAS BEEN DRAWN TO CONFORM TO THE 2018 NORTH CAROLINA RESIDENTIAL CODE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO BEGGING WORK. CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL STATE AND LOCAL BUILDING CODES AND ORDINANCES. KADS CUSTOM HOME DESIGNS ASSUMES NO LIABILITY FOR SITE CONDITIONS, CONSTRUCTION METHODS OR ANY DEVIATION OF THESE PLANS.

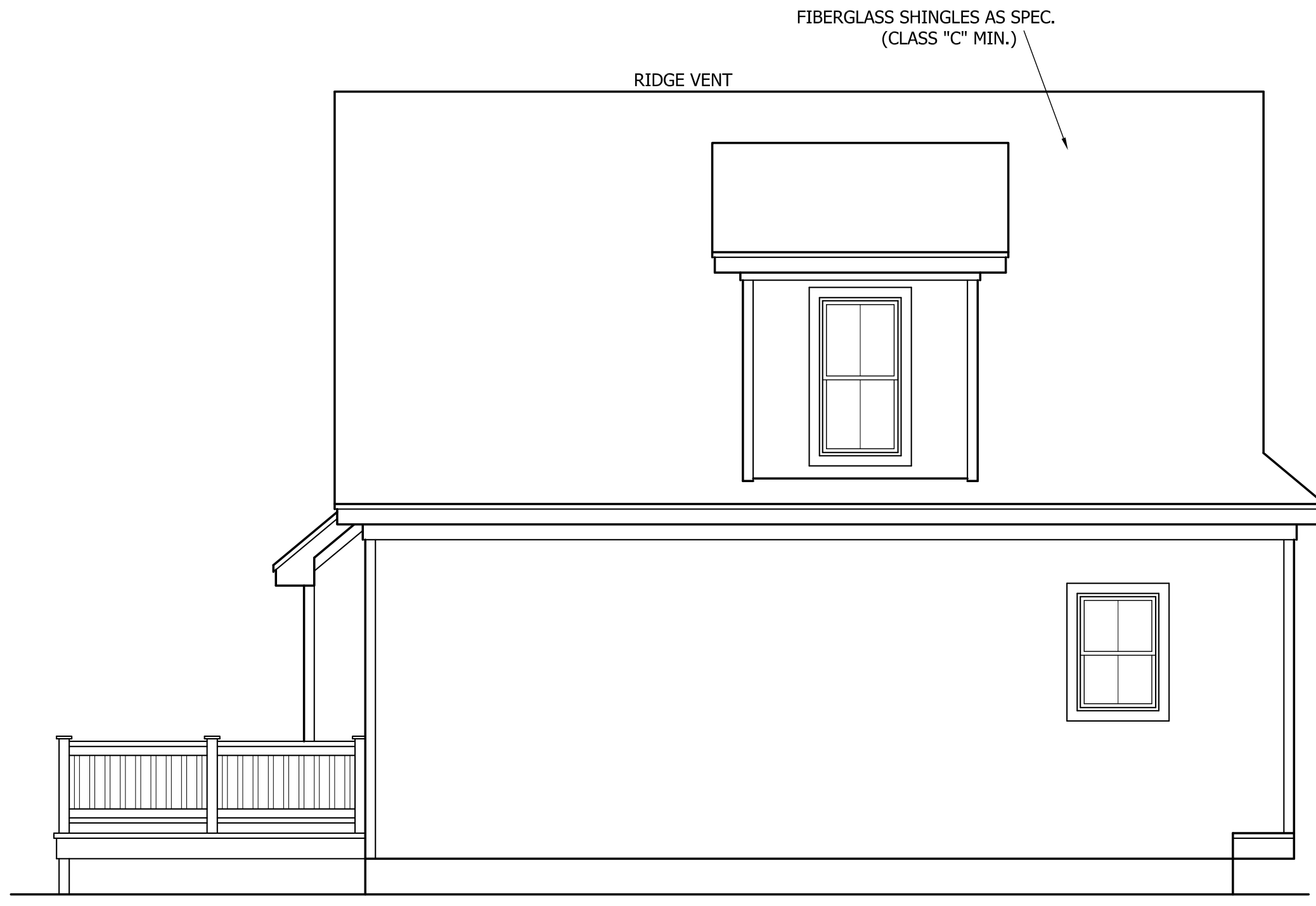
NOTE:
ALL WINDOWS TO BE INSTALLED MUST MEET A MAXIMUM OF .32 U VALUE OR BETTER, UNLESS ENERGY CALCULATIONS ARE SUBMITTED WITH PLANS PROVIDED BY BUILDER AT TIME OF PLAN REVIEW.



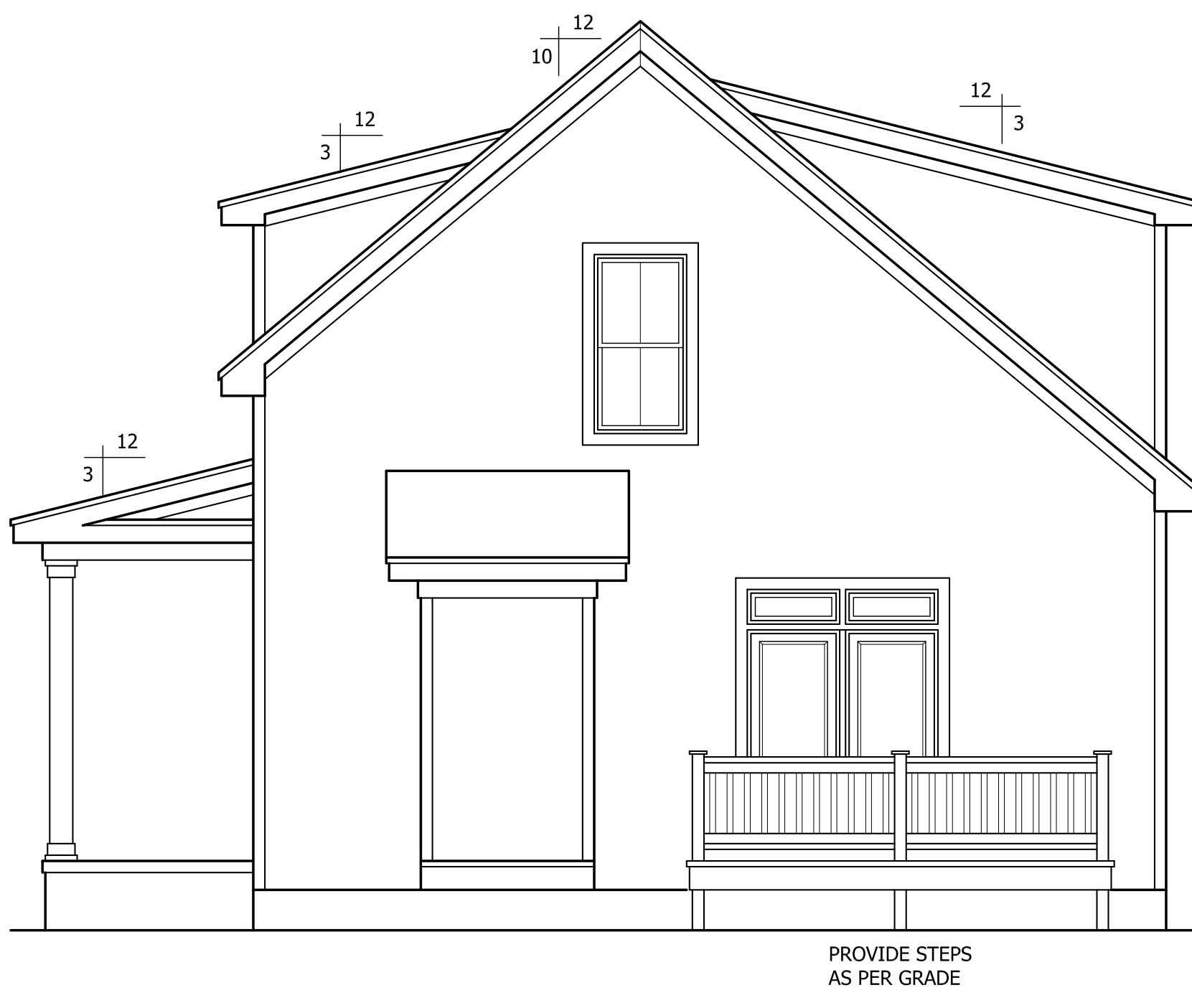
LEFT ELEVATION
SCALE: 1/4"=1'-0"



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



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



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

TAYLOR RESIDENCE



ANGIER, NC
919-369-7181

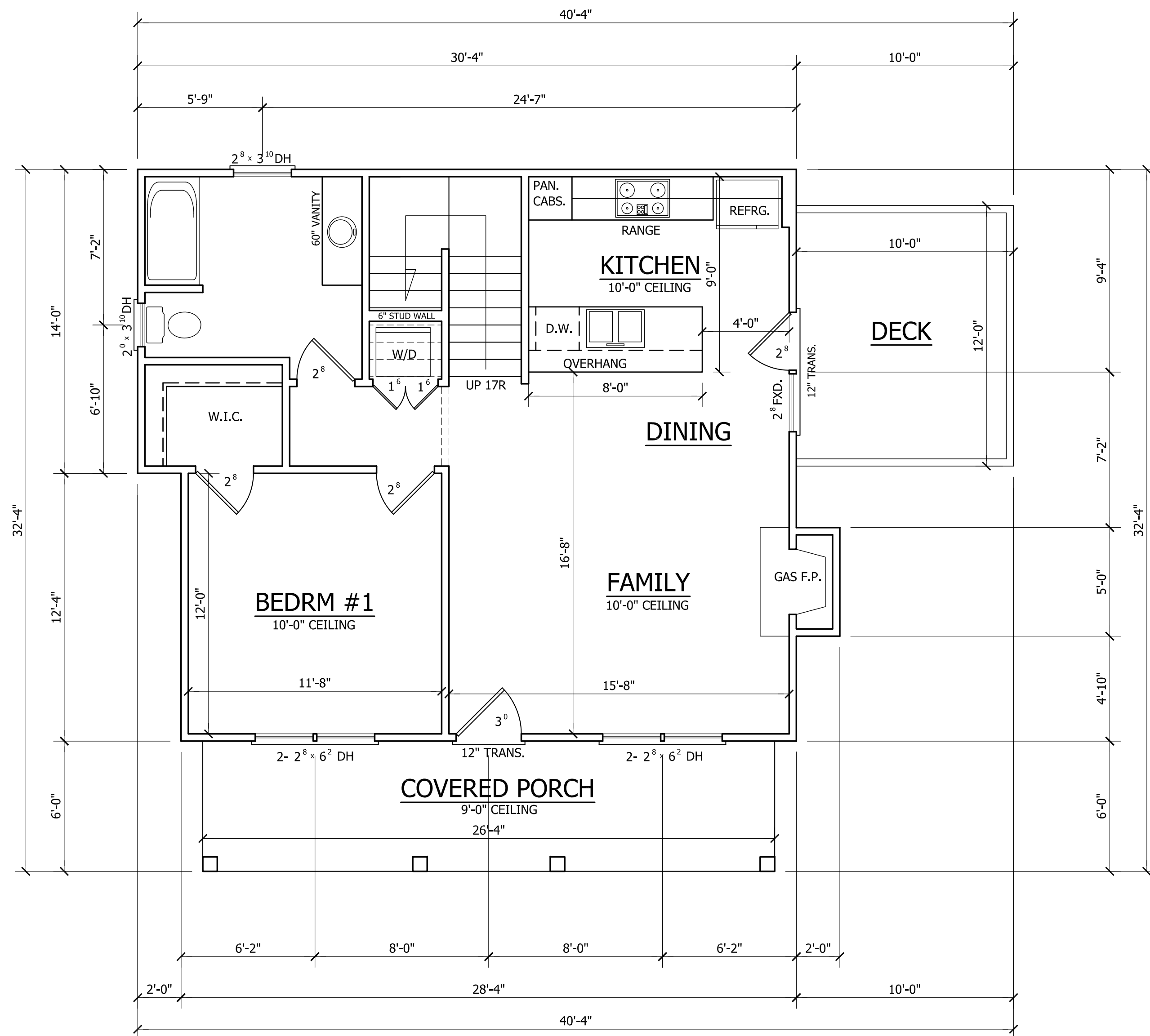
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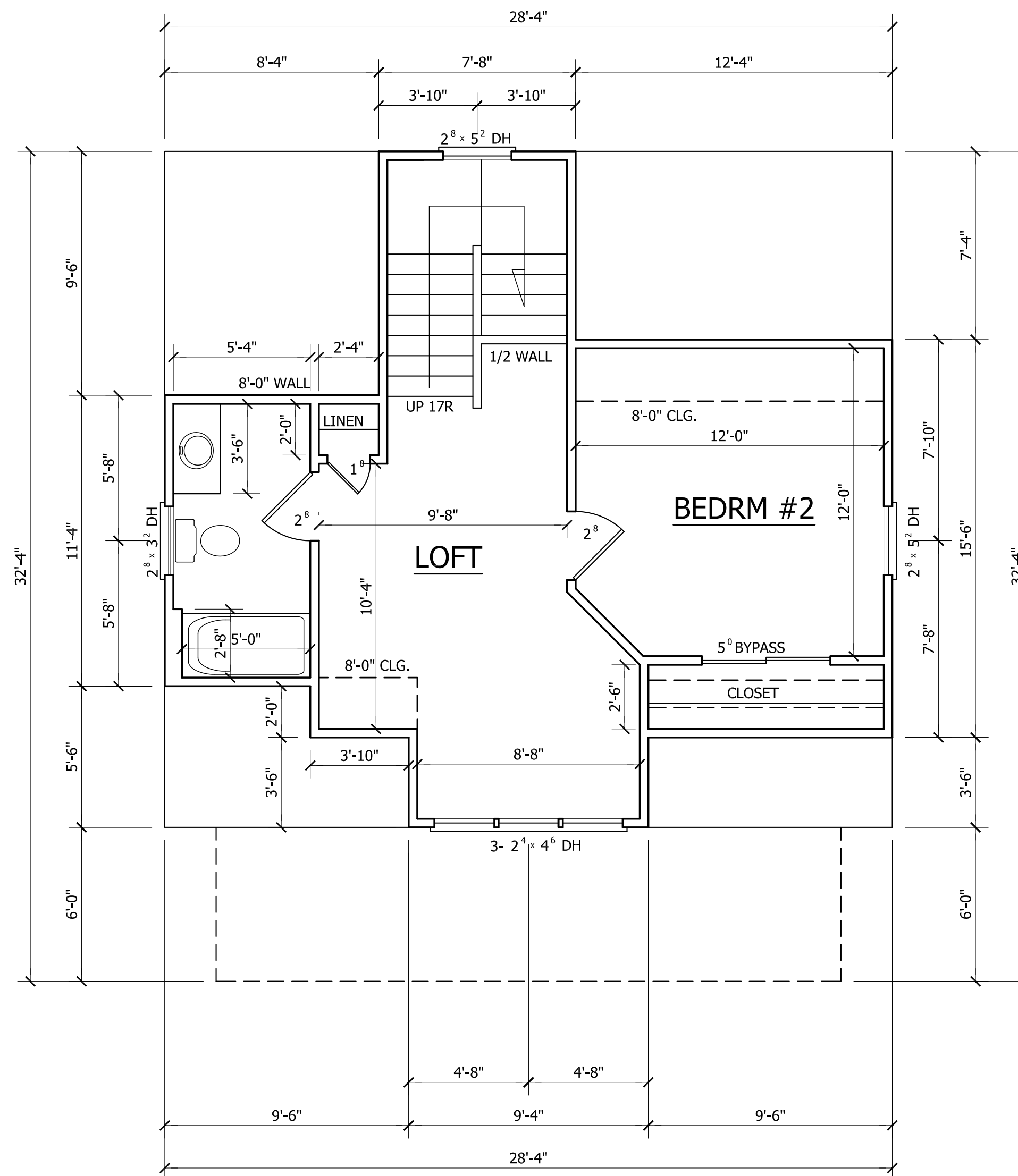
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DK1216



FIRST FLOOR PLAN

SCALE: 1/4"=1'-0"
 10'-0" CLG. HGT.
 SET WINDOWS AT 7'-10" A.F.F.



SECOND FLOOR PLAN

SCALE: 1/4"=1'-0"
 8'-0" CLG. HGT.
 SET WINDOWS AT 6'-8" A.F.F.

HEATED	
FIRST FLOOR HTD. SQ. FT.	= 774
SECOND FLOOR HTD. SQ. FT.	= 442
TOTAL HEATED SQ. FT.	= 1216
UNHEATED	
FRONT PORCH SQ. FT.	= 158
DECK SQ. FT.	= 120



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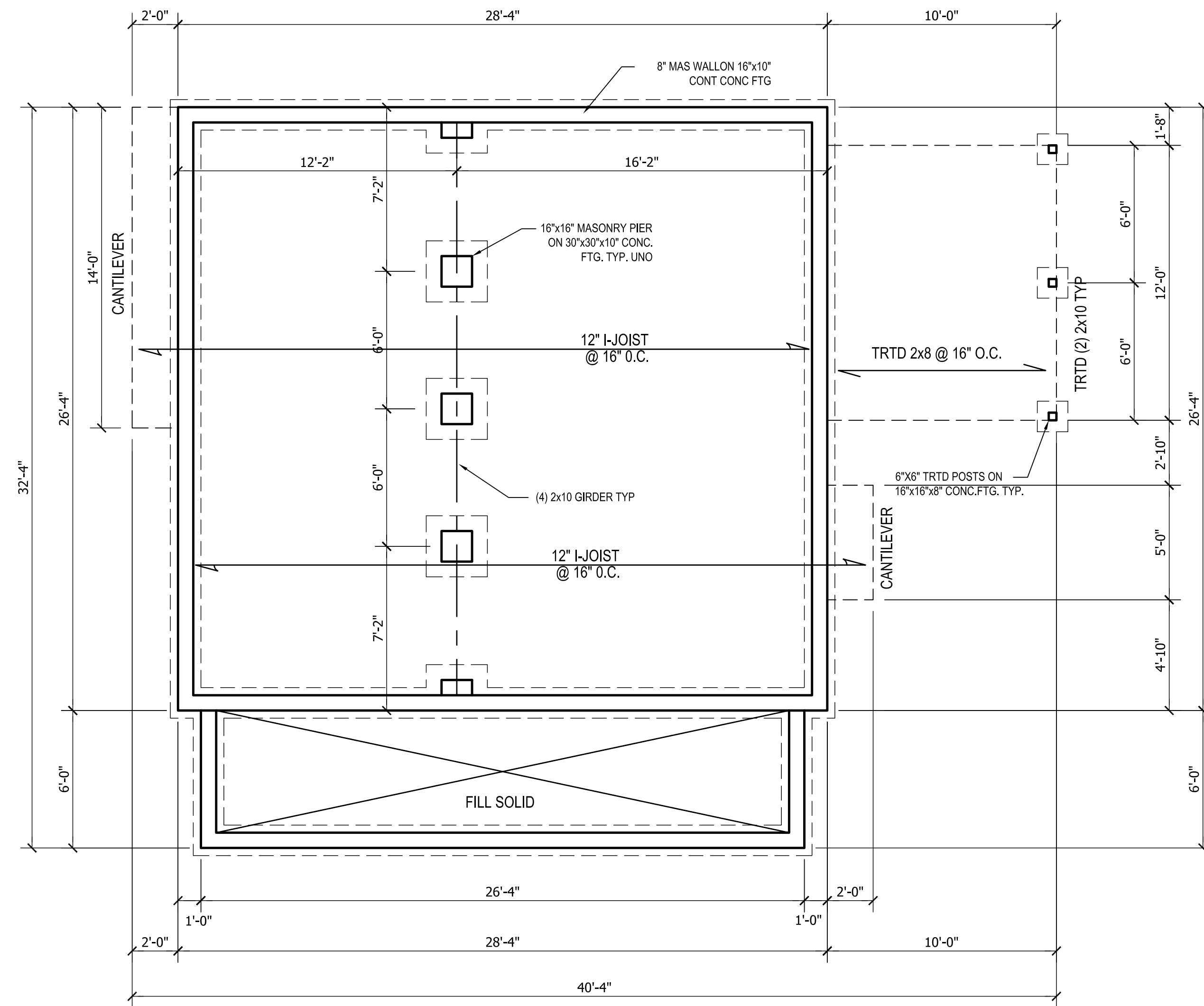
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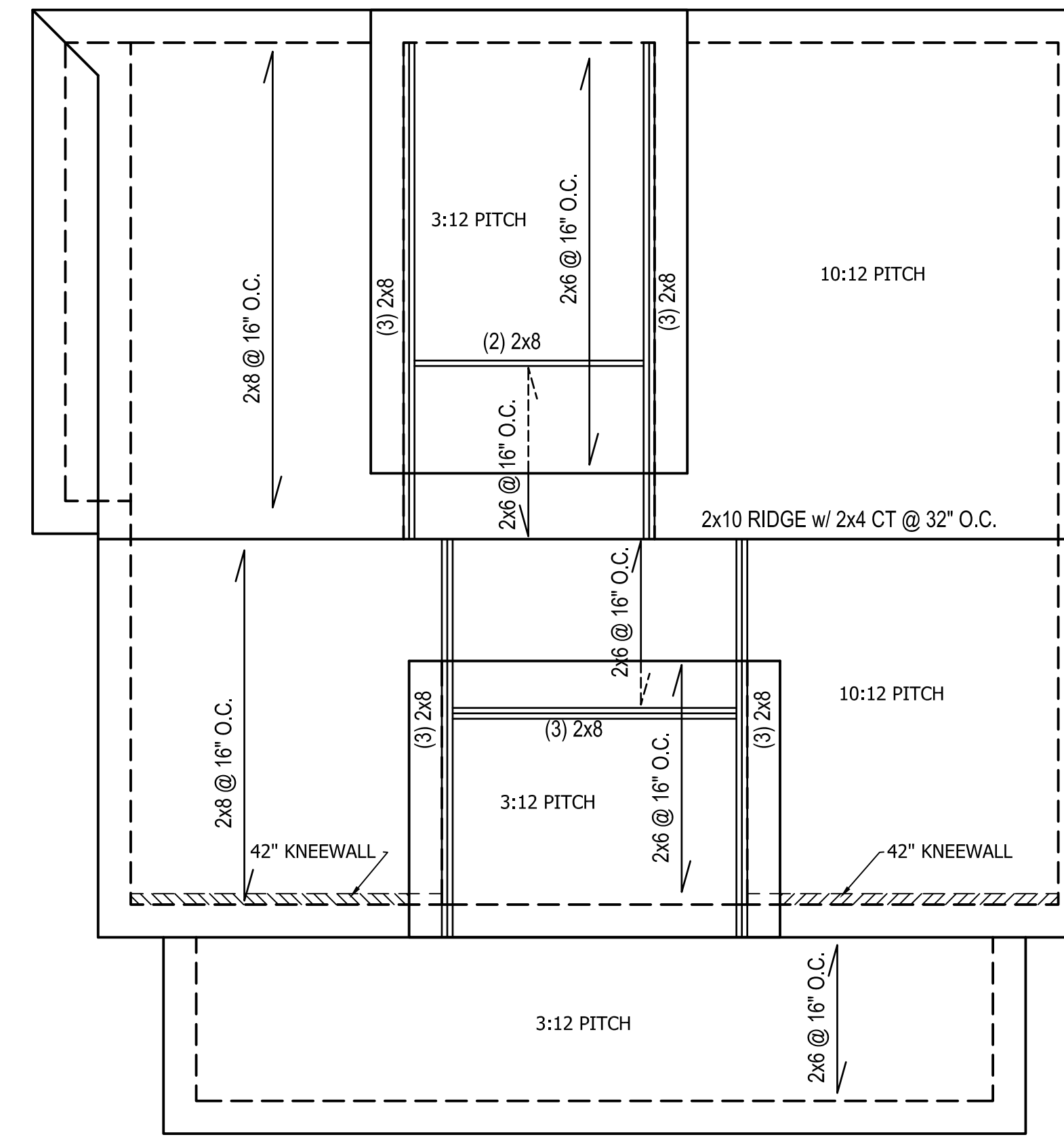
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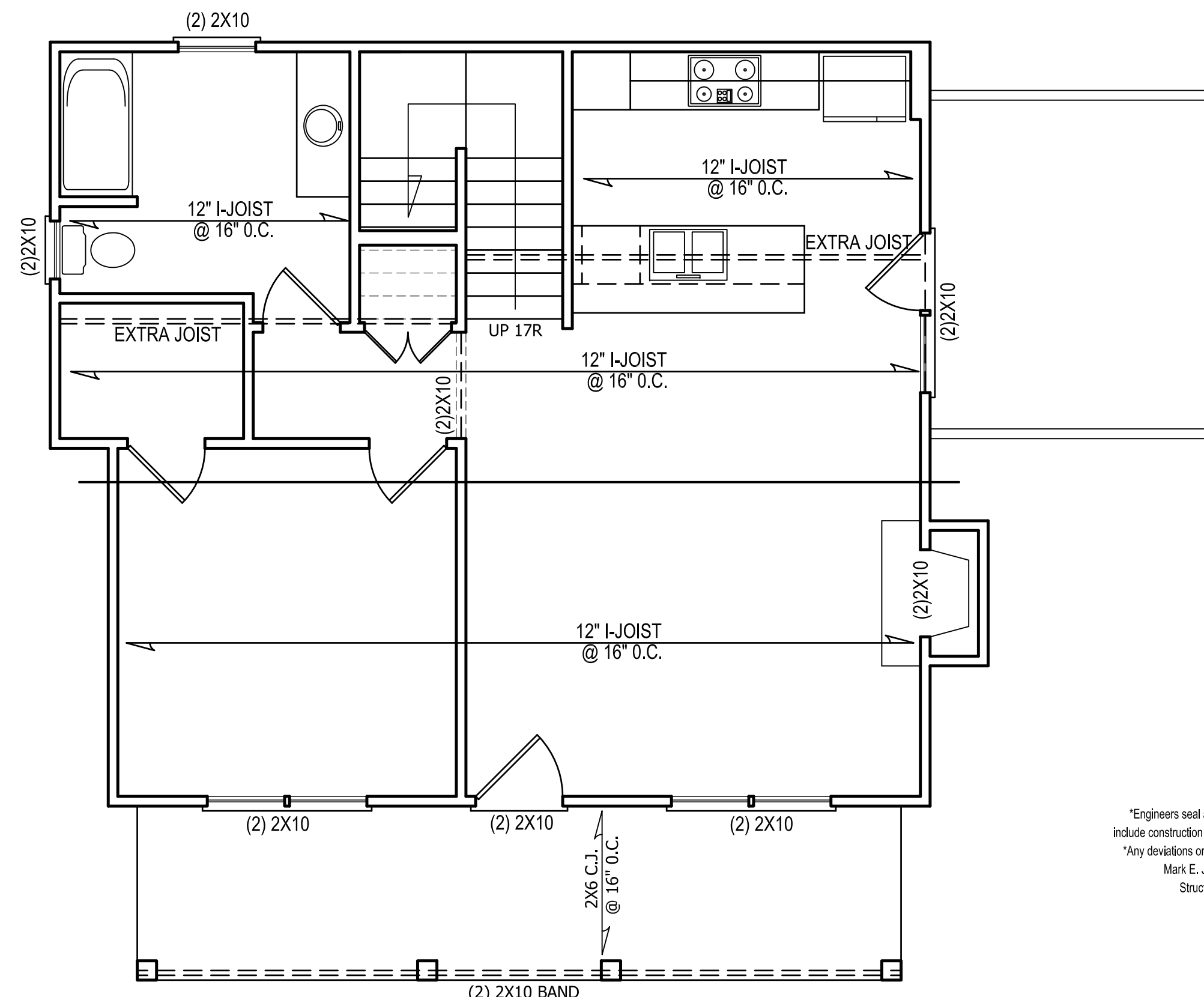
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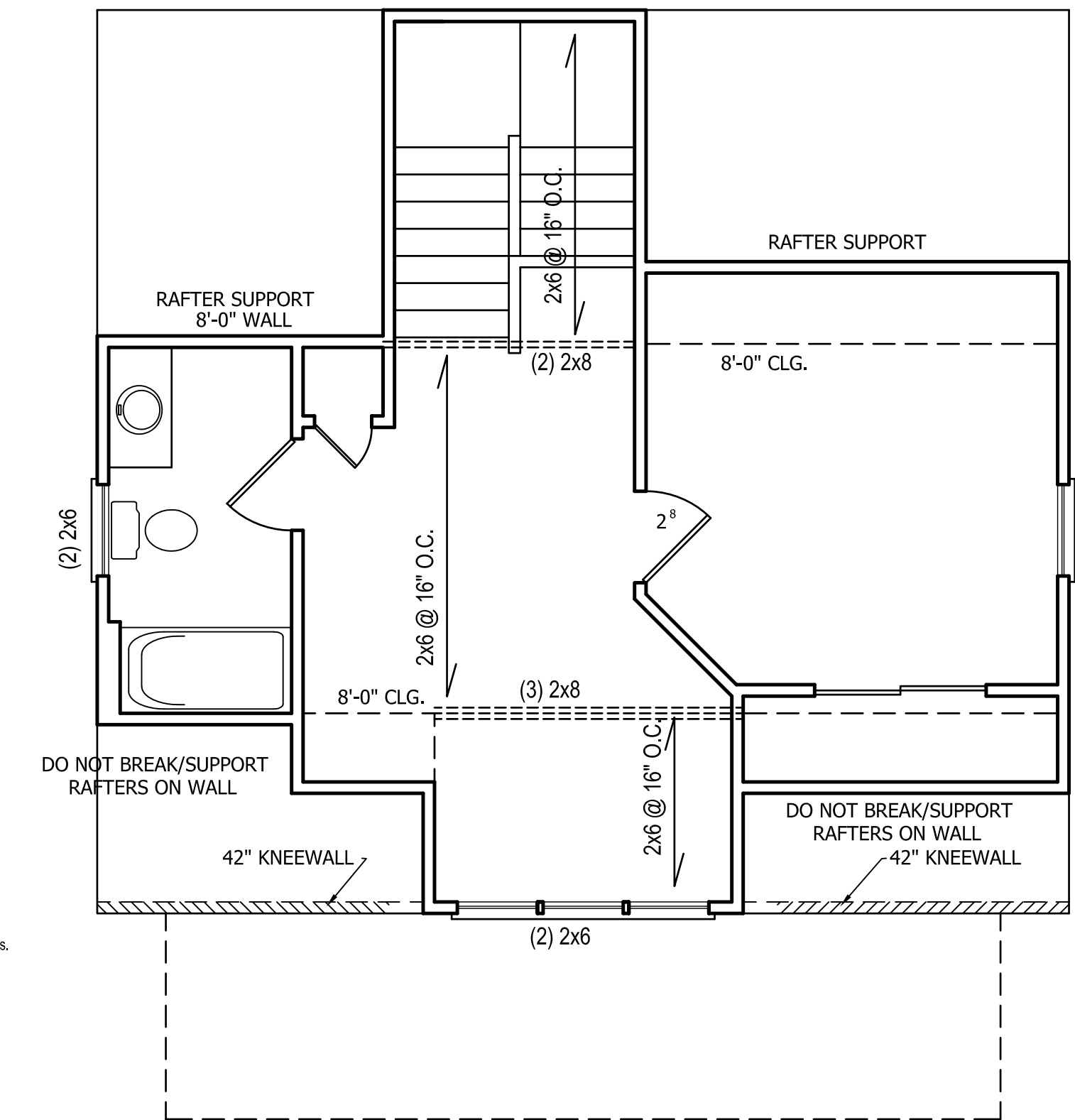
FOUNDATION PLAN
SCALE: 1/4"=1'-0"



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



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



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

STRUCTURAL NOTES

1) ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF "NORTH CAROLINA STATE 2018 RESIDENTIAL BUILDING CODE", IN ADDITION TO ALL LOCAL CODES AND REGULATIONS.

2) DESIGN LOADS:

	LINE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (IN. & L)
ALL FLOORS	40	10	L/360
ATTIC (full deck access)	20	10	L/240
ATTIC (no access)	30	5	L/360
EXTERNAL BALCONY	60	10	L/360
ROOF	20	10	L/180
ROOF TRUSS	20	20	L/240
WIND LOAD			(BASED ON 120 MPH (3-second gust))

3) MINIMUM ALLOWABLE SOIL BEARING PRESSURE = 3000 PSF

4) CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF FIVE INCHES UNLESS NOTED OTHERWISE (N.O.).

5) MAXIMUM DEFLECTION OF UNBALANCED FULL AGENT FOUNDATION WALLS TO BE LESS THAN 4" WITHOUT USING SUFFICIENT WALL BRACING. REFER TO SECTION AREA OF 2018 NC BUILDING CODE FOR BACKFILL LIMITATIONS BASED ON WALL HEIGHT.

6) ALL FRAMING LUMBER SHALL BE SP (24 OR 48) FUS (UN). ALL FRAMING LUMBER EXPOSED TO THE ELEMENTS SHALL BE TREATED MATERIAL.

7) ALL LOAD BEARING HEADERS SHALL BE (2)X10 (UNO). ALL WINDOW AND DOOR HEADERS SHALL BE SUPPORTED BY (1) 2X4 STUD AND (1) KING STUD AT EACH END UNLESS NOTED. ALL OTHER BEAMS SHALL BE SUPPORTED BY 2 STUDS OR THE AMOUNT OF STUDS REQUIRED FOR WALL BRACING AT EACH END UNLESS NOTED. POINT LOADS (STIFF BEAMS, ETC.) SHALL CONSIST OF 3 STUDS UNLESS NOTED. ALL SUPPORTS OF 2 STUDS OR MORE SHALL BE TRANSMISSION THROUGH EACH FLOOR TO THE FOUNDATION.

8) ALL EXTERIOR WALLS TO BE SHEATHED WITH MIN. 7/16" WOOD STRUCTURAL PANELS FASTENED WITH 8D WALLS 4" O.C. AT EDGES AND 12" O.C. AT INT. SUPPORTS. BLOCKING SHALL BE INSTALLED IF LESS THAN 50 PERCENT OF THE WALL LENGTH IS SHEATHED. WHERE BLOCKING IS REQ'D, ALL PANELS SHALL BE FASTENED AT 3' O.C. AT EDGES AND 6" O.C. AT INT. SUPPORTS.

9) ALL STRUCTURAL STEEL SHALL BE A36. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3/4" THICK AND FULL FLANGE WIDTH. INSIDE SOLE BRACING FROM BEAM SUPPORT TO FOUNDATION BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH TWO LAG SCREWS (1/2" DIAMETER AND 4" LONG). LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDED THE JOISTS ARE TIE WALLED TO THE SOLE PLATES, AND THE SOLE PLATES ARE WALLED OR BOLTED TO THE BEAM FLANGES 6" O.C.

10) ANCHOR BOLT PLACEMENT PER SECTION AREA 1.1. 1/2" DIAMETER ANCHOR BOLTS SPACED AT 6'-0" O.C. AND PLACED 12" FROM THE END OF EACH PLATE SECTION.

11) FOUNDATION DRAINAGE COMP. PROTECT OR WATERPROOFING PER SECTION 405 AND 406 OF 2018 NC BUILDING CODE.

12) WALL AND ROOF CLADDING VALUES:
WALL CLADDING SHALL BE DESIGNED FOR A 24.1 PSF, OR GREATER POSITIVE AND NEGATIVE PRESSURE.
ROOF VALUES BOTH POSITIVE AND NEGATIVE SHALL BE AS FOLLOWS:
4.5 LB/RSF FOR ROOF PITCHES OF 0:12 TO 2.5:12
3.6 LB/RSF FOR ROOF PITCHES OF 2.5:12 TO 7:12
2.4 LB/RSF FOR ROOF PITCHES OF 7:12 TO 12:12
** MEAN ROOF HEIGHT 30' OR LESS

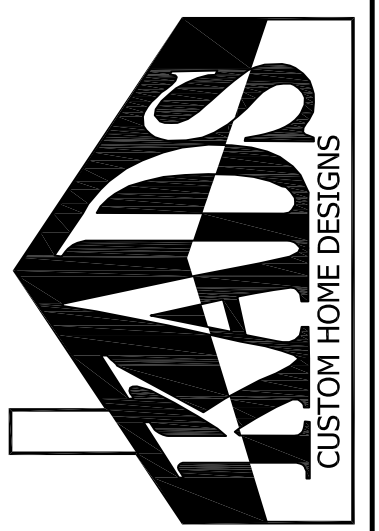
13) FOR ROOF SLIPS FROM ELL THROUGH 4-1/2" BUILDUP TO INSTALL 1/4" LAYERS OF 1/4" FILL PAPER.

14) IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND SQ. FTG. ARE CORRECT PRIOR TO CONSTRUCTION. DESIGNER IS NOT RESPONSIBLE FOR CONVERSIONS OR SQ. FTG. ERRORS SINCE CONSTRUCTION BEGINS.

THIS PLAN SHALL BE CONTINUOUSLY BRACED WITH WOOD STRUCTURAL PANELS PER SECTION R602.10.3 OF THE NC RESIDENTIAL BUILDING CODE. NOTE ALL WALL BRACING LINES SATISFY THE MINIMUM AMOUNTS OF WALL BRACING PER CODE. GARAGE DOOR HEADER SHALL BE CONSTRUCTED PER FIGURE R602.10.1, METHOD PF.

Professional Engineer Seal for Mark E. Jones, PE, State of North Carolina, License No. 032702, 2-27-23.

Structural Engineering by:
Mark E. Jones, PE
6425 Glen Dean Court
Raleigh, NC 27603
Phone: (919) 395-9618
*Engineers seal applies only to structural components on this document. Seal does not include construction means, methods, techniques, sequences, or safety precautions.
*Any deviations or discrepancies on plans are to be brought to the immediate attention of Mark E. Jones, PE. Failure to do so will void Mark E. Jones, PE liability.
Structural analysis based on NC Residential Building Code 2018.
Project No. 23-043



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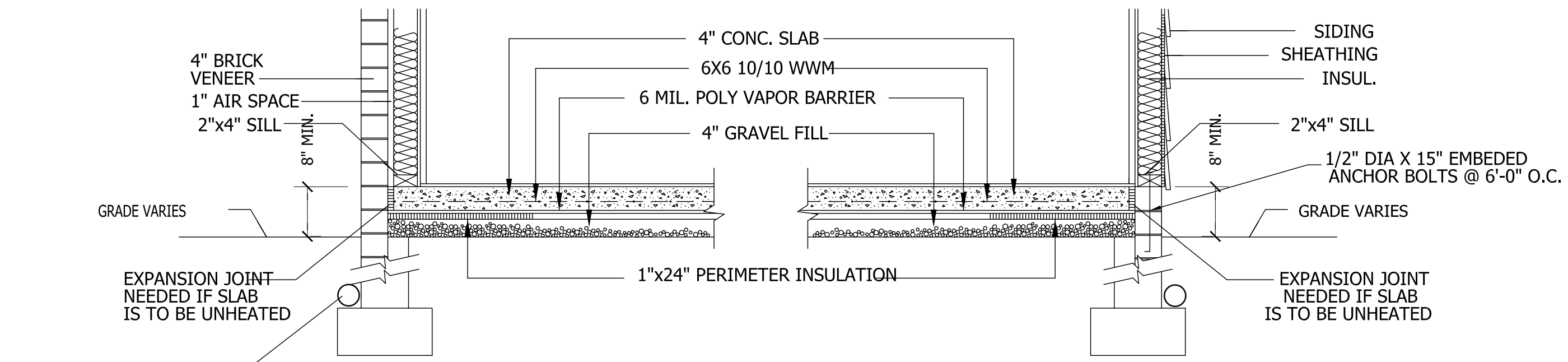
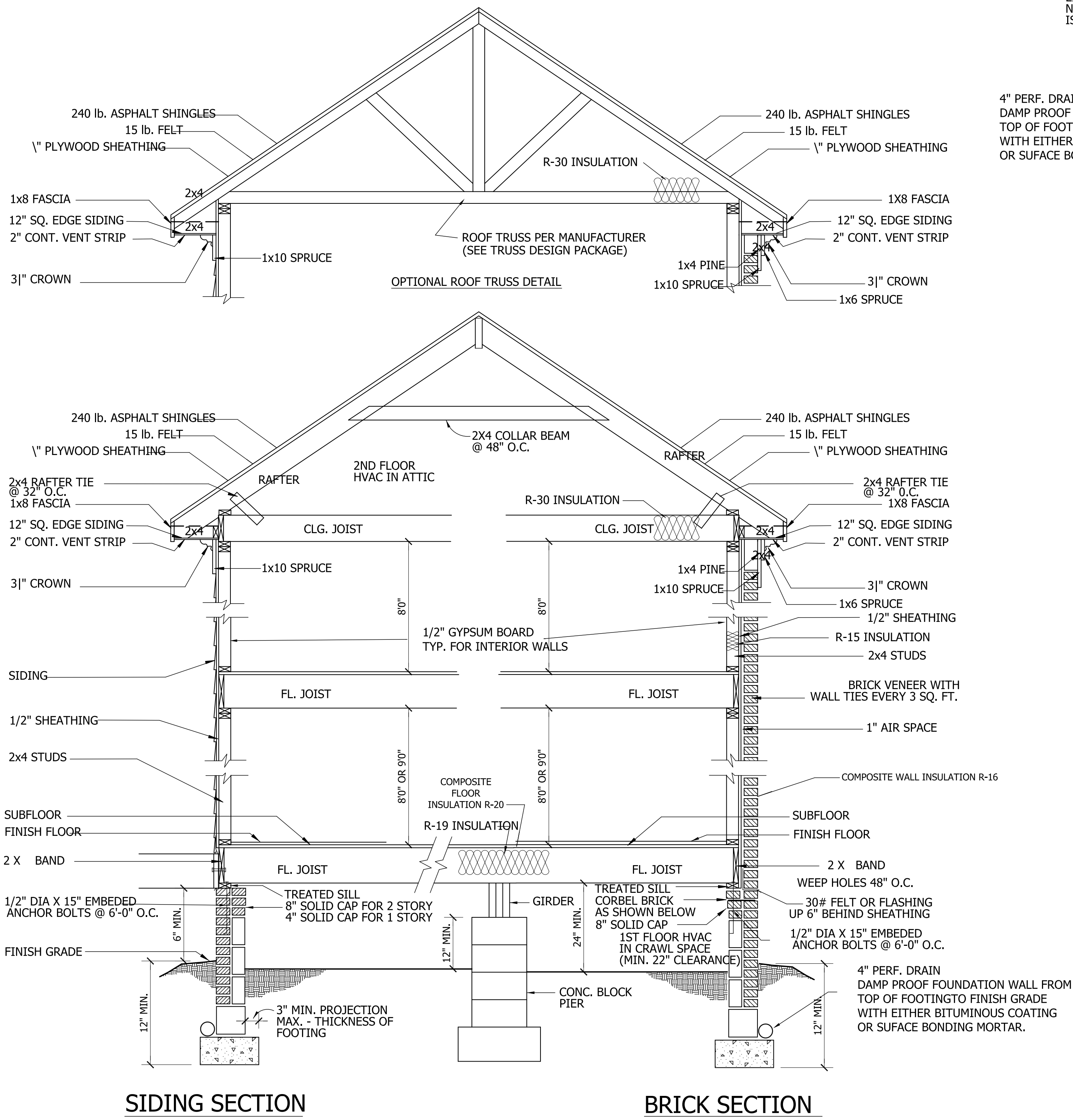
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CRAWL SPACE VENTILATION

PROVIDE AT LEAST 1.0 SQ. FT. NET FREE VENTILATION AREA FOR EACH 150 SQ. FT. OF CRAWL SPACE.

CRAWL SPACE AREA = 774 SQ. FT.
774/150 = 5.16 SQ. FT. REQ'D.

REDUCE REQUIRED AREA TO 1.0 SQ. FT. NET FREE VENTILATION AREA FOR EACH 1,500 SQ. FT. OF CRAWL SPACE WITH APPROVED VAPOR BARRIER.

PROVIDE (1) VENT WITHIN 3'-0" OF EACH CORNER.

REFER TO MANUFACTURER SPECIFICATIONS FOR ACTUAL VENTS USED TO DETERMINE NUMBER OF VENTS REQUIRED.

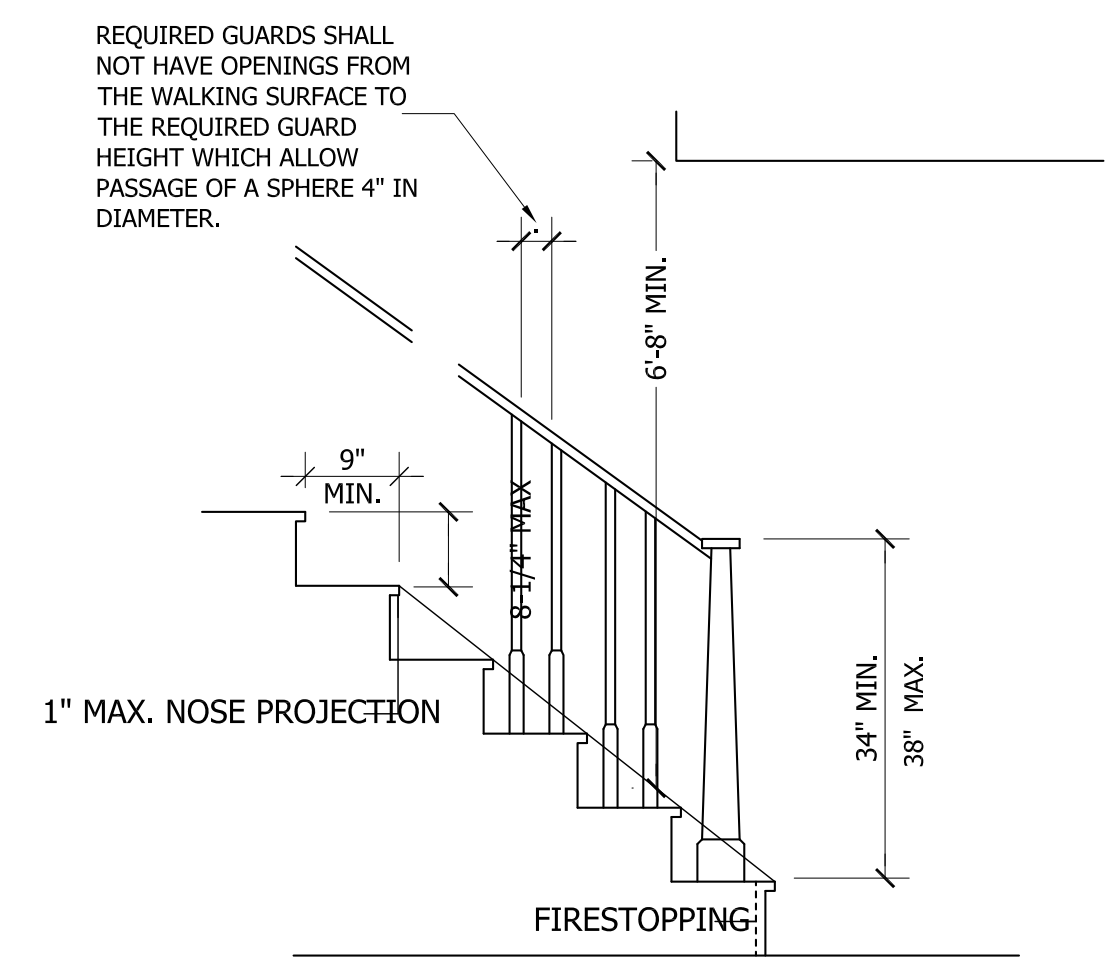
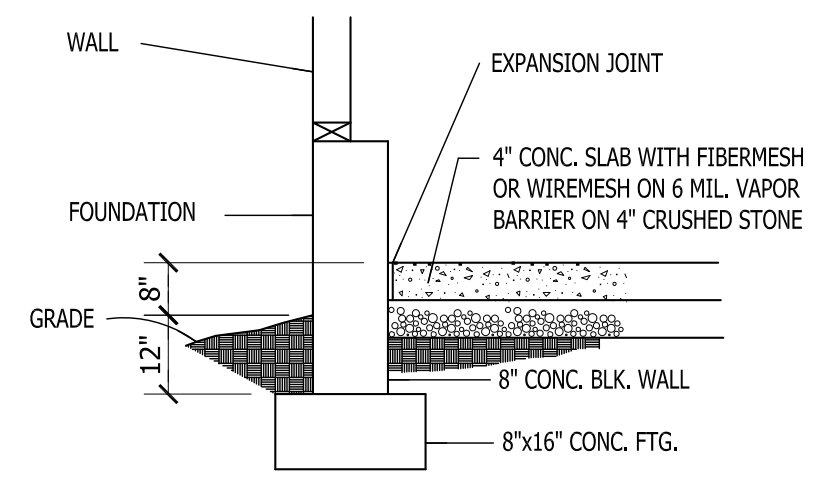
ROOF VENTILATING REQUIREMENTS

$\frac{932}{150} = 6.22$ SQ. FT. REQ'D

ROOF VENTILATING REQUIREMENTS
(POWER ROOF VENTILATOR REQUIRED)

$\frac{932}{300} = 3.11$ SQ. FT. REQ'D

BUILDER TO PROVIDE APPROPRIATE VENTILATING AS REQUIRED.



NOTE:
Stairways shall not be less than 36 inches in clear width at all points above the permitted handrail height and below the required headroom height. Handrails shall not project more than 4.5 inches on either side of the stairway and the minimum clear width of the stairway at and below the handrail height, including treads and landings, shall not be less than 31-1/2 inches where a handrail is installed on one side and 27 inches where handrails are provided on both sides