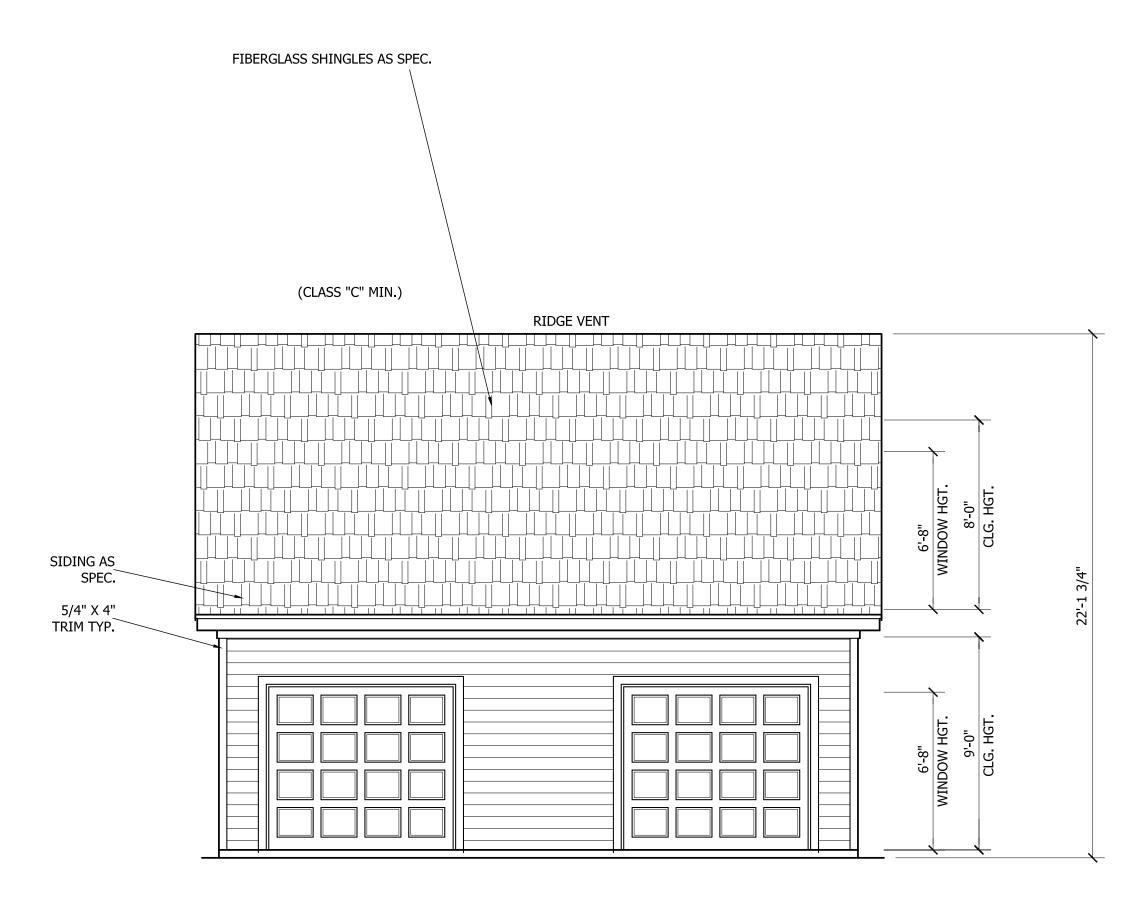
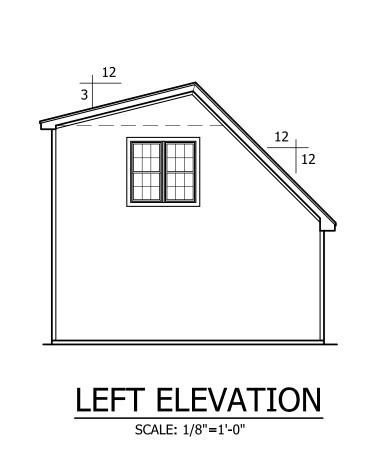
THIS PLAN HAS BEEN DRAWN TO CONFORM TO THE 2018 NORTH CAROLINA RESIDENTIAL CODE

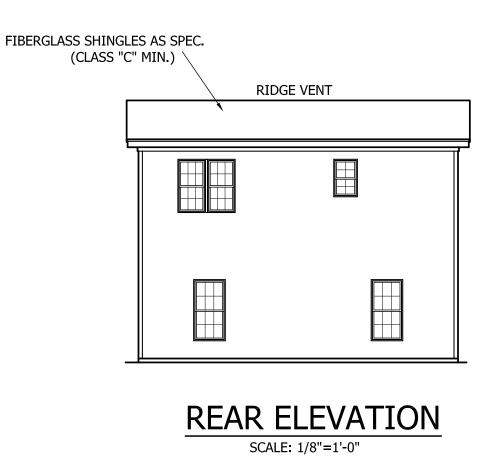
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO BEGGINING WORK. CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL STATE AND LOCAL BUILDING CODES AND ORDINANCES. KADS CUSTOM HOME DESIGNS ASSUMES NO LIABILITY FOR SITE CONDITIONS, CONSTRUCTION METHODS OR ANY DEVIATION OF THESE PLANS.

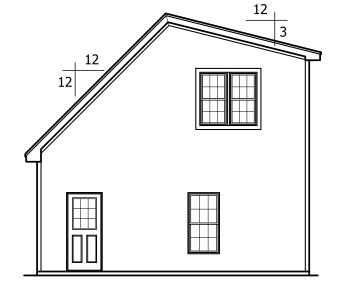
ALL WINDOWS TO BE INSTALLED MUST MEET A MAXIMUM OF .32 U VALUE OR BETTER, UNLESS ENERGY CALCULATIONS ARE SUBMITTED WITH PLANS PROVIDED BY BUILDER AT TIME OF PLAN REVIEW.



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

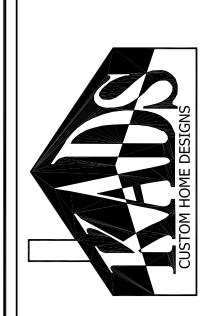






**RIGHT ELEVATION** SCALE: 1/8"=1'-0"

# **DINH TRAN**



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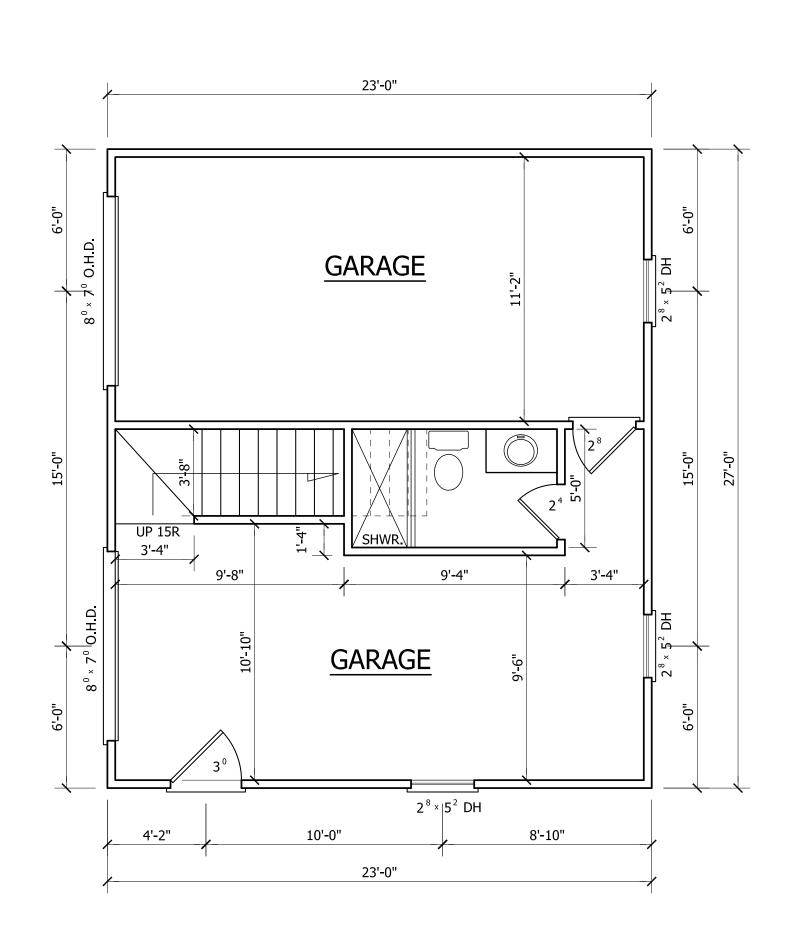
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### 23'-0" 13'-7" 9'-5" 2- 2<sup>8</sup> x 5<sup>2</sup> DH 12'-2" 2- 2<sup>8</sup> × |4<sup>6</sup> DH 16'-2" 6'-10" 23'-0"



### SECOND FLOOR PLAN

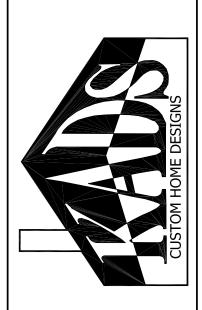
SCALE: 1/4"=1'-0" 8'-0" CLG. HGT. SET WINDOWS AT 6'-8" A.F.F.

> GARAGE SQ. FT. = 621 THIRD FLOOR HTD. SQ. FT. = 470

### FIRST FLOOR PLAN

SCALE: 1/4"=1'-0" 9'-0" CLG. HGT. SET WINDOWS AT 6'-8" A.F.F.

### DINH TRAN KFITH HILLS



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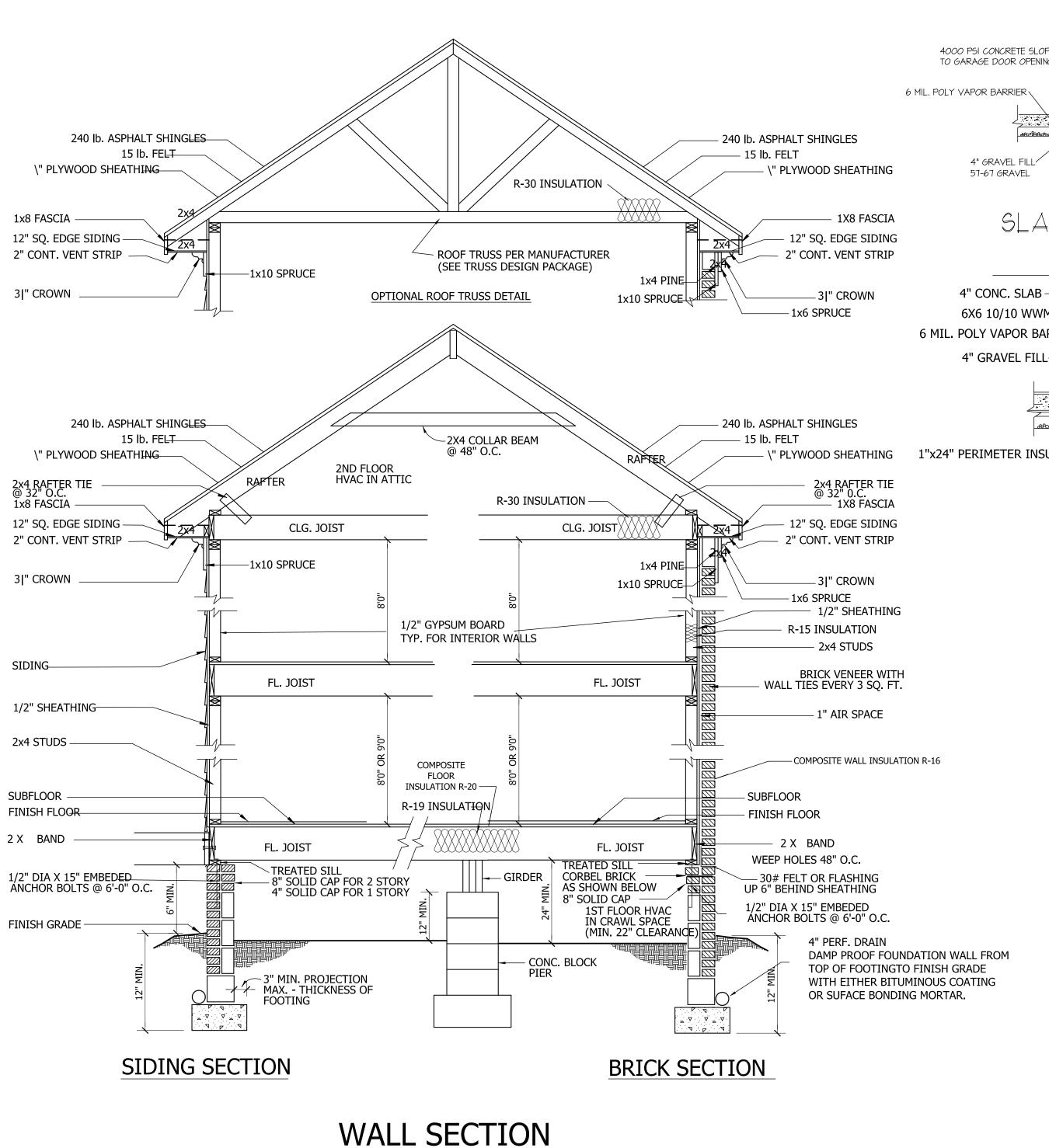
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SCALE: \" = 1'-0"

2"X4" STUDS

SIDING
SHEATHING

TO GARAGE DOOR OPENING

L. POLY VAPOR BARRIER

AND WITHIN 12" OF SILL BREAKS

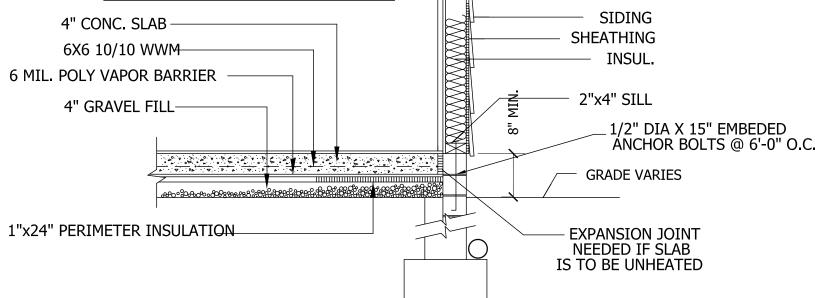
GRADE VARIES

4" GRAVEL FILL

51-61 GRAVEL

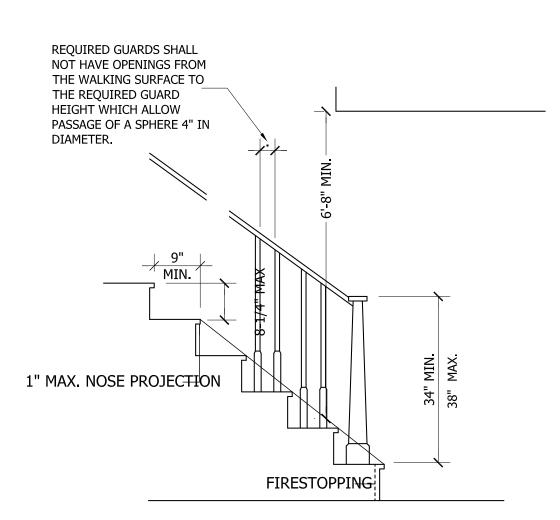
12" BELOW GRADE

### SLAB FDN. DETAIL



### SLAB FDN. DETAIL

SCALE: 1" = 1'-0"



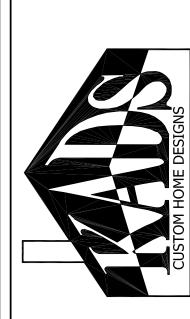
### <u>NOTE</u>

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

### STAIR DETAIL

SCALE: NTS

## DINH TRAN KETTH HILLS



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a handrail is installed on one sid where handrails are provided on CTATD DET

### ROOF VENTILATING REQUIREMENTS

621 150

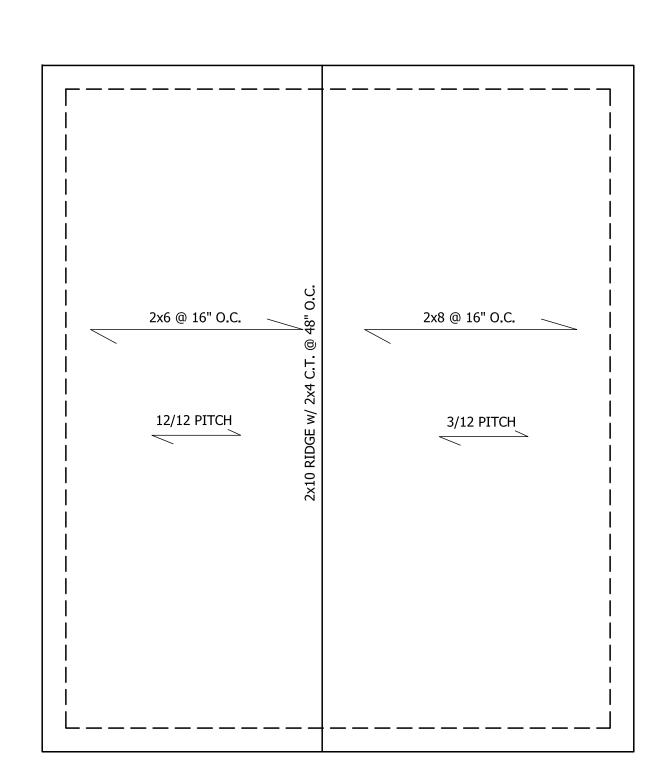
= <u>4.14</u> SQ. FT. REQ'D

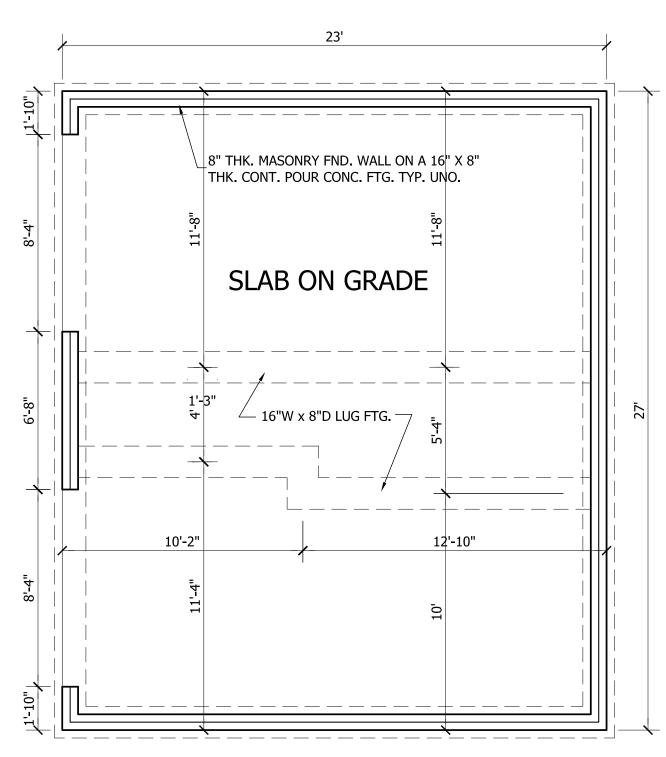
### ROOF VENTILATING REQUIREMENTS

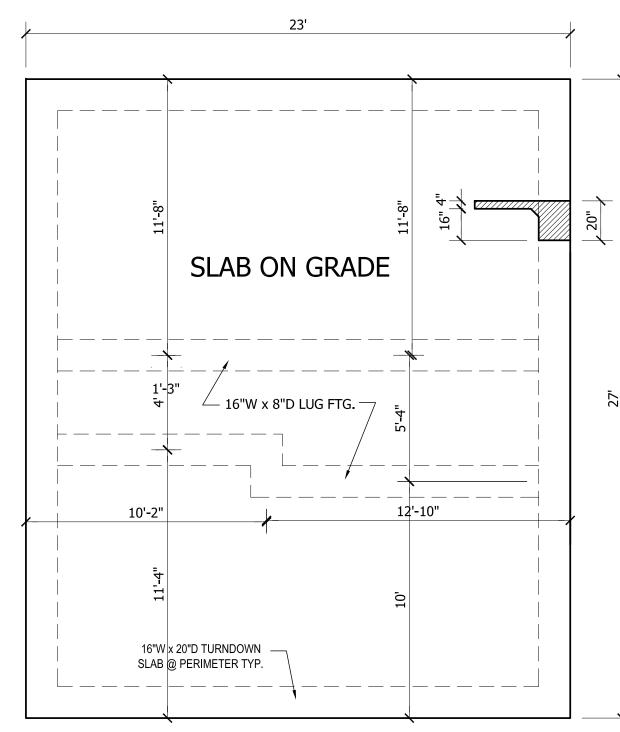
(POWER ROOF VENTILATOR REQUIRED)

= <u>2.07</u> SQ. FT. REQ'D

BUILDER TO PROVIDE APPROPRIATE VENTILATING





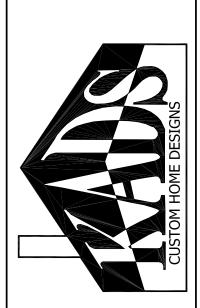


**ROOF PLAN** SCALE: 1/4"=1'-0"

STEM WALL SLAB PLAN SCALE: 1/4"=1'-0"

MONOLITHIC SLAB PLAN SCALE: 1/4"=1'-0"

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### STRUCTURAL NOTES

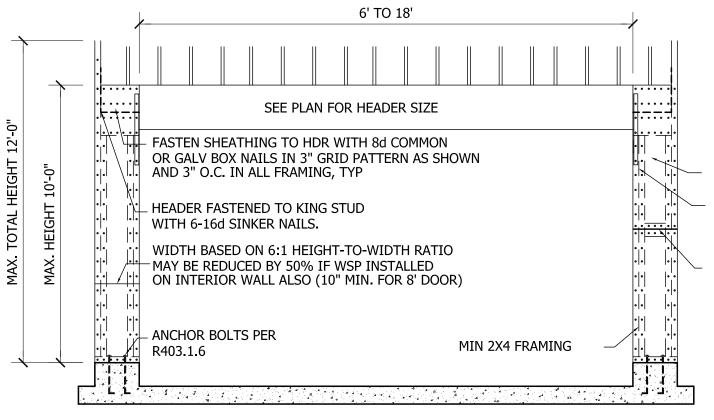
2) DESIGN LOADS:

	LIVE LOAD	DEAD LOAD	DEFLECTION
	(PSF)	(PSF)	(DL & LL)
ALL FLOORS	40	10	L/360
ATTIC (pull down access)	20	10	L/240
ATTIC (no access)	10	5	L/240
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 gusts)]		

- 3) MINIMUM ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF
- 4) CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF FIVE INCHES UNLESS NOTED
- 5) MAXIMUM DEPTH OF UNBALANCED FILL AGAINST FOUNDATION WALLS TO BE LESS THAN 4'-0" WITHOUT USING SUFFICIENT WALL BRACING. REFER TO SECTION R404 OF 2012 NC BUILDING CODE FOR BACKFILL LIMITATIONS BASED ON WALL HEIGHT, WALL THICKNESS, SOIL TYPE, AND UNBALANCED BACKFILL HEIGHT
- 6) ALL FRAMING LUMBER SHALL BE SYP #2 (Fb = 800 PSI) UNO.
- ALL FRAMING LUMBER EXPOSED TO THE ELEMENTS SHALL BE TREATED MATERIAL.
- 7) ALL LOAD BEARING HEADERS SHALL BE (2)2x10 (UNO). ALL WINDOW AND DOOR HEADERS SHALL BE SUPPORTED BY (1) JACK 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 FULL BEARING AT EACH END UNLESS NOTED. POINT LOADS (STIFF KNEES, ETC.) SHALL CONSIST OF 2 STUDS UNLESS NOTED. ALL SUPPORTS OF 2 STUDS OR MORE SHALL BE TRANSFERRED THROUGH EACH FLOOR TO THE FOUNDATION.
- 8) ALL EXTERIOR WALLS TO BE SHEATHED WITH MIN. 7/16" WOOD STRUCTURAL PANELS FASTNED WITH 8D NAILS 6" 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
- ) ALL STRUCTURAL STEEL SHALL ASTM A-36. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3-1/2" INCHES AND FULL FLANGE WIDTH, PROVIDE SOLID BEARING 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 PROVIDING THE JOISTS ARE TOE NAILED TO THE SOLE PLATES, AND THE SOLE PLATES ARE NAILED OR BOLTED TO THE BEAM FLANGES @ 48" O.C.
- 10) ANCHOR BOLT PLACEMENT PER SECTION R403.1.6. 1/2" DIAMETER ANCHOR BOLTS SPACED AT 6'-0" O/C AND PLACED 12" FROM THE END OF EACH PLATE SECTION
- .1) FOUNDATION DRAINAGE-DAMP PROOFING OR WATERPROOFING PER SECTION 405 AND 406 OF 2012 NC BUILDING CODE
- 12) WALL AND ROOF CLADDING VALUES:
  WALL CLADDING SHALL BE DESIGNED FOR A 24.1 SQ.FT. OR GREATER POSITIVE AND NEGATIVE PRESSURE
  ROOF VALUES BOTH POSITIVE AND NEGATIVE SHALL BE AS FOLLOWS:
- 45.5 LBS/SQFT FOR ROOF PITCHES OF 0/12 TO 2.25/12 34.8 LBS/SQFT FOR ROOF PITCHES OF 2.25/12 TO 7/12 21.0 LBS/SQFT FOR ROOF PITCHES OF 7/12 TO 12/12

- \*\* MEAN ROOF HEIGHT 30' OR LESS
- 3) FOR ROOF SLOPES FROM 2:12 THROUGH 4:12, BUILDER TO INSTALL 2 LAYERS OF 15# FELT PAPER
- 13) TO ROOM SLOPE TO MENTAL TO RESPONSIBLE FOR DIMENSIONS AND SQ. FTG. ARE CORRECT PRIOR TO CONSTRUCTION.

  DESIGNER IS NOT RESPONSIBLE FOR DIMENSIONING OR SQ. FTG, ERRORS ONCE CONSTRUCTION BEGINS

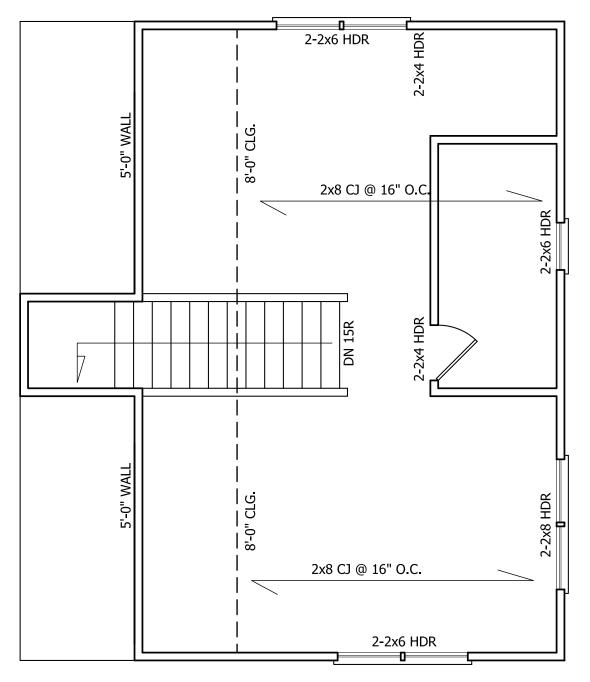


3/8" MIN THK STRUCTURAL SHEATHING

LSTA-24 STRAPS (INSIDE AND OUTSIDE) AT FIRST JACK, CENTERED AT BOTTOM OF HEADER, BOTH SIDES OF OPENING

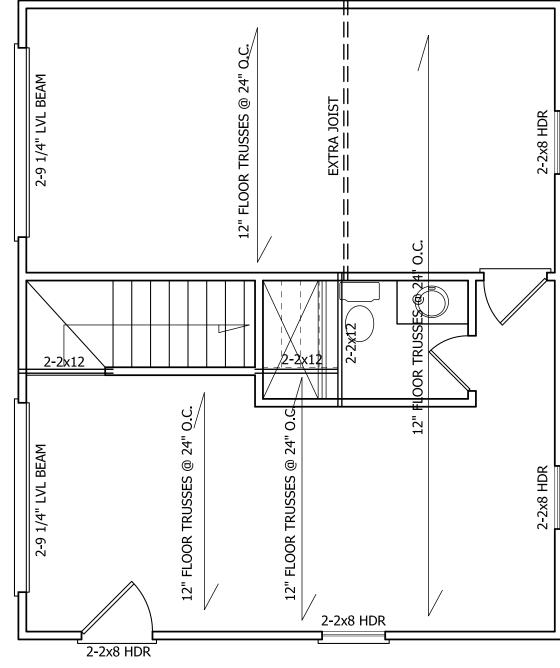
FOR A PANEL SPLICE (IF NEEDED), PANEL EDGES SHALL BE BLOCKED, AND OCCUR WITHIN 24" OF MID-HEIGHT. ONE ROW OF TYP SHEATHING-TO-FRAMING NAILING IS REQD IF 2X4 BLOCKING IS USED, THE 2X4's MUST BE NAILED TOGETHER WITH 3-16d SINKERS

### PORTAL FRAME DETAIL



### SECOND FLOOR PLAN

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



### FIRST FLOOR PLAN

SCALE: 1/4"=1'-0" 9'-0" CLG. HGT. SET WINDOWS AT 6'-8" A.F.F.



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