

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.

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.



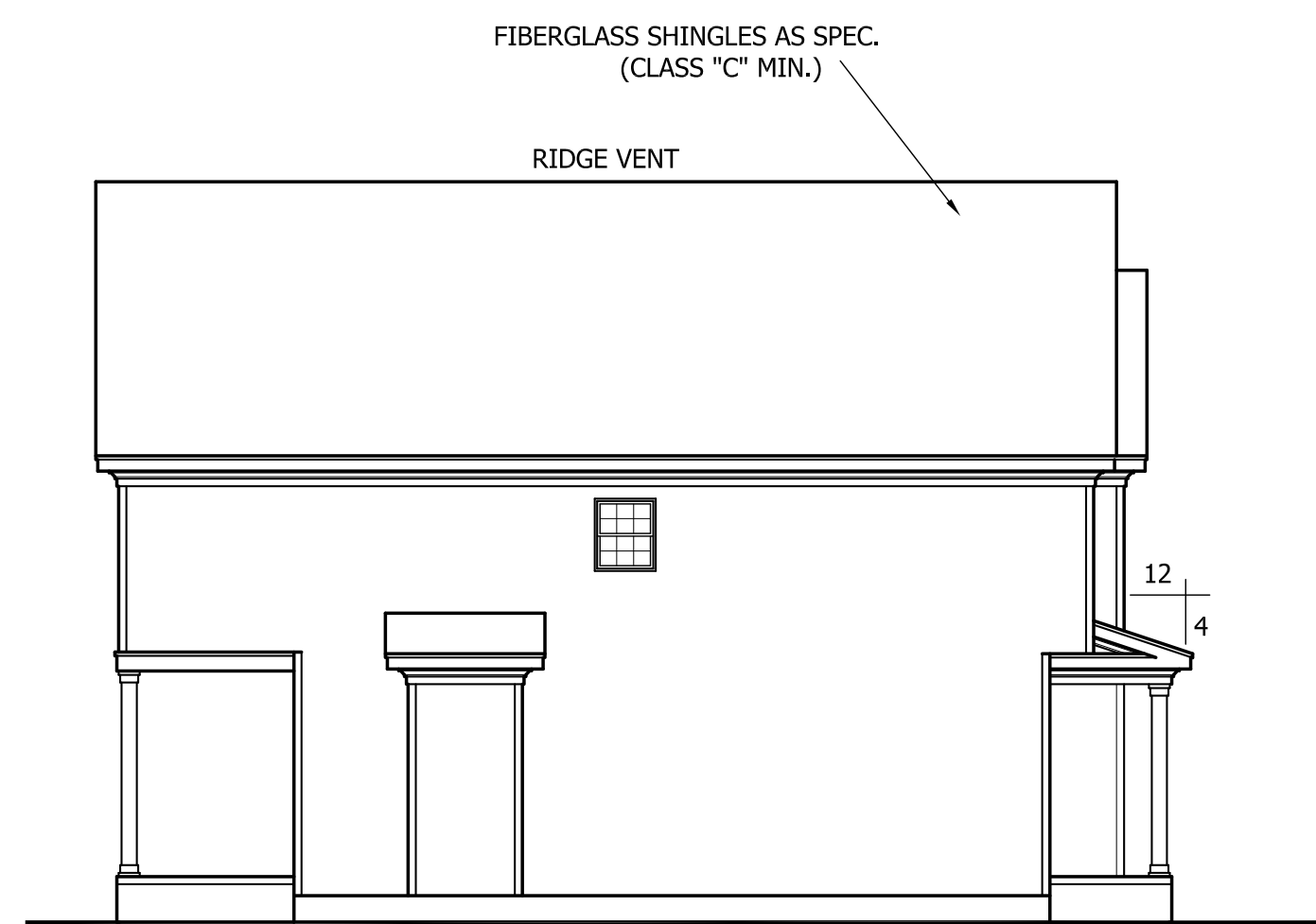
OPTIONAL FRONT ELEVATION

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



FRONT ELEVATION

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



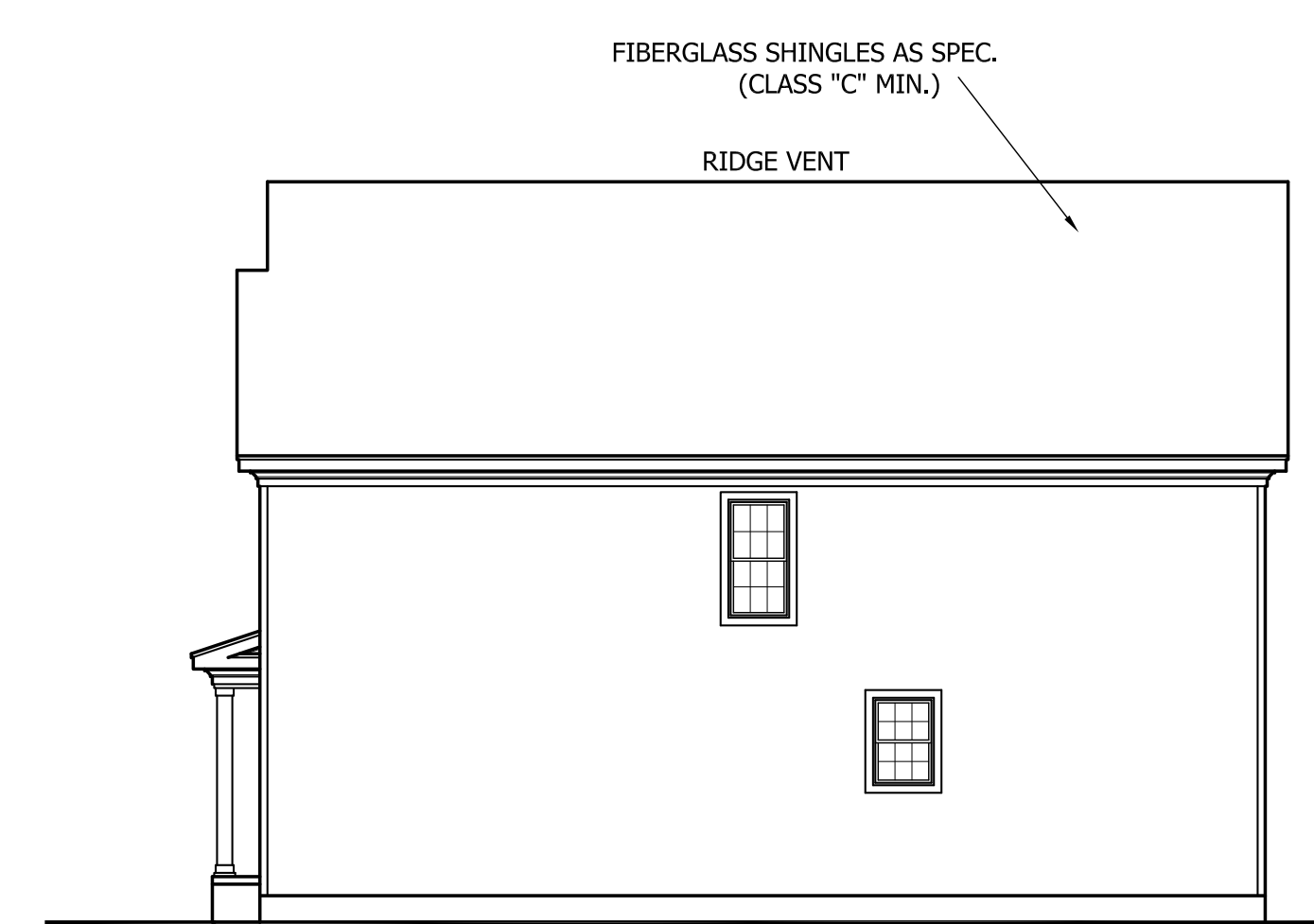
LEFT ELEVATION

SCALE: 1/8"=1'-0"



REAR ELEVATION

SCALE: 1/8"=1'-0"



RIGHT ELEVATION

SCALE: 1/8"=1'-0"

TRIANGLE DEALS. LLC
"THE CROWDER"



ANGIER, NC
919-369-7181

DRAWN BY:
D.V.O.

DATE:
8/12/20

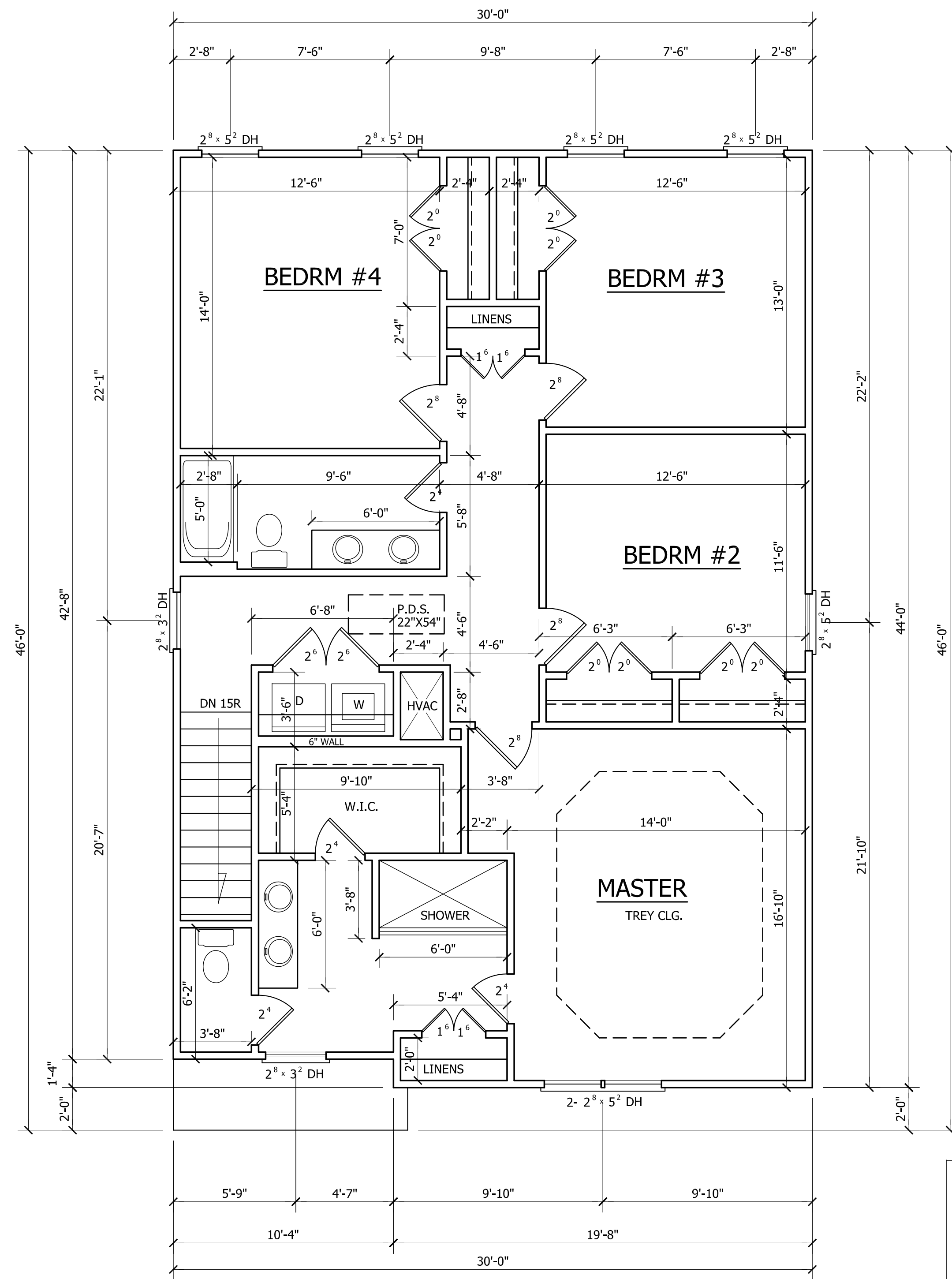
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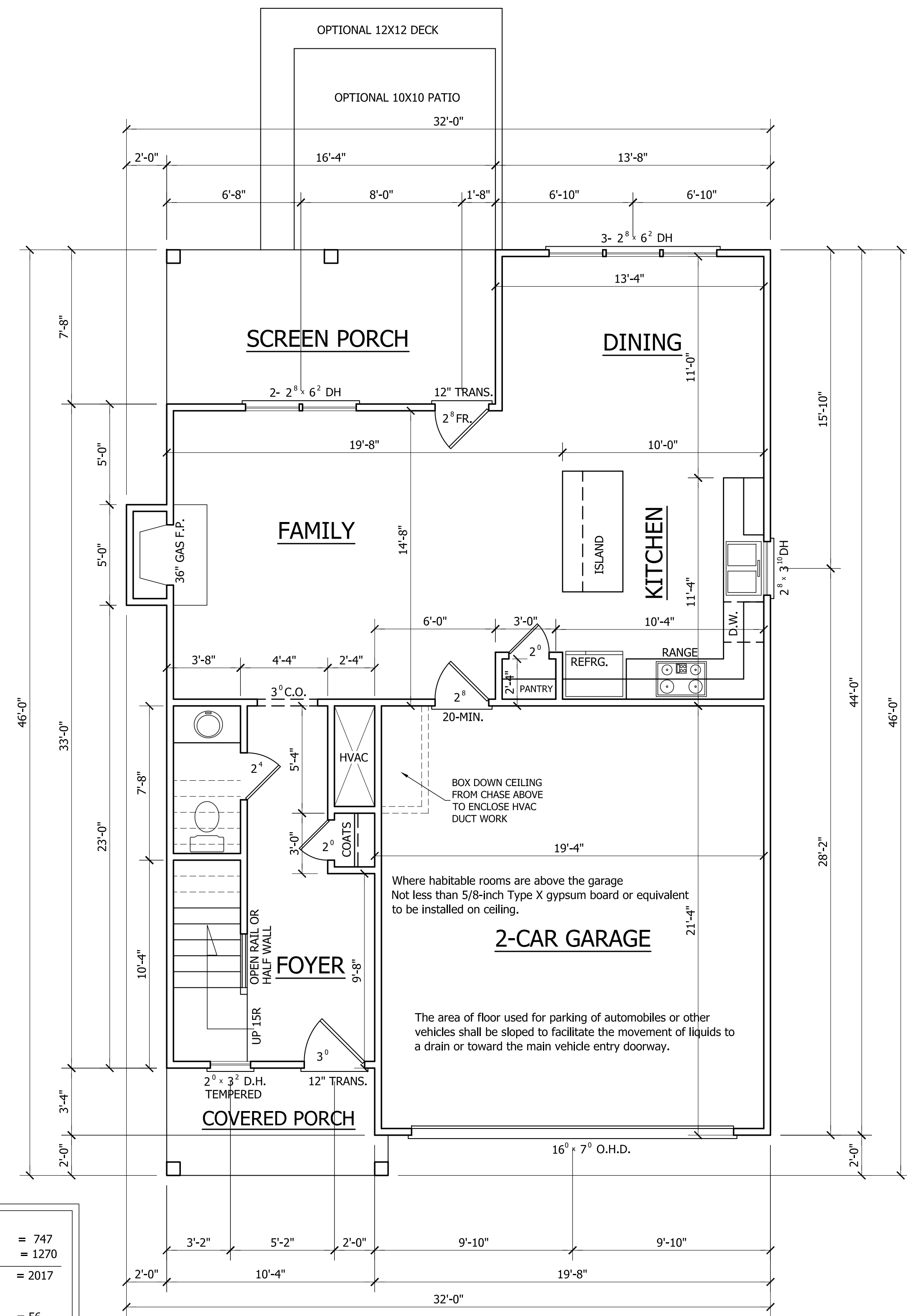
PLAN NO.
DK2017



SECOND FLOOR PLAN

SCALE: 1/4"=1'-0"
 8'-0" CLG. HGT.
 SET WINDOWS AT 7'-0" A.F.F.

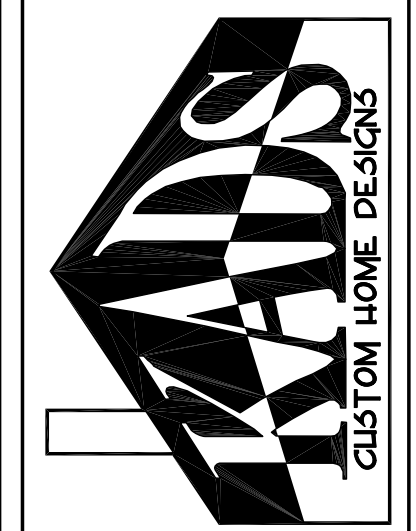
HEATED	
FIRST FLOOR HTD. SQ. FT.	= 747
SECOND FLOOR HTD. SQ. FT.	= 1270
TOTAL HTD. SQ. FT.	= 2017
UNHEATED	
FRONT PORCH SQ. FT.	= 56
GARAGE SQ. FT.	= 414
SCREEN PORCH SQ. FT.	= 125



FIRST FLOOR PLAN

SCALE: 1/4"=1'-0"
 9'-0" CLG. HGT.
 SET WINDOWS AT 7'-10" A.F.F.

TRIANGLE DEALS. LLC
 "THE CROWDER"



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 919-369-7181

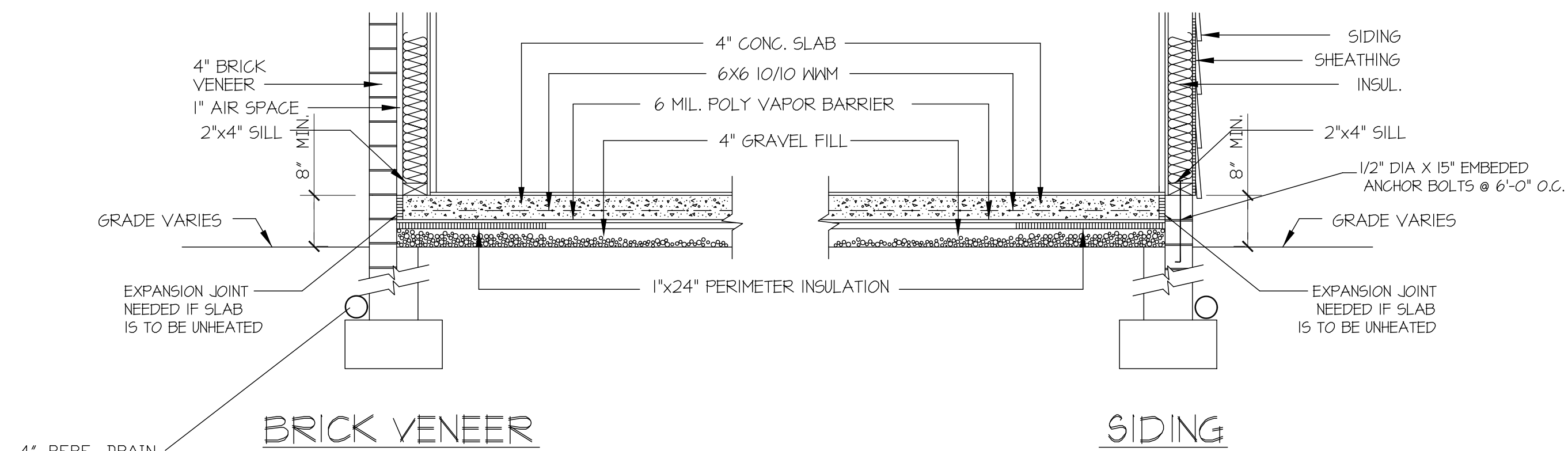
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 8/12/20

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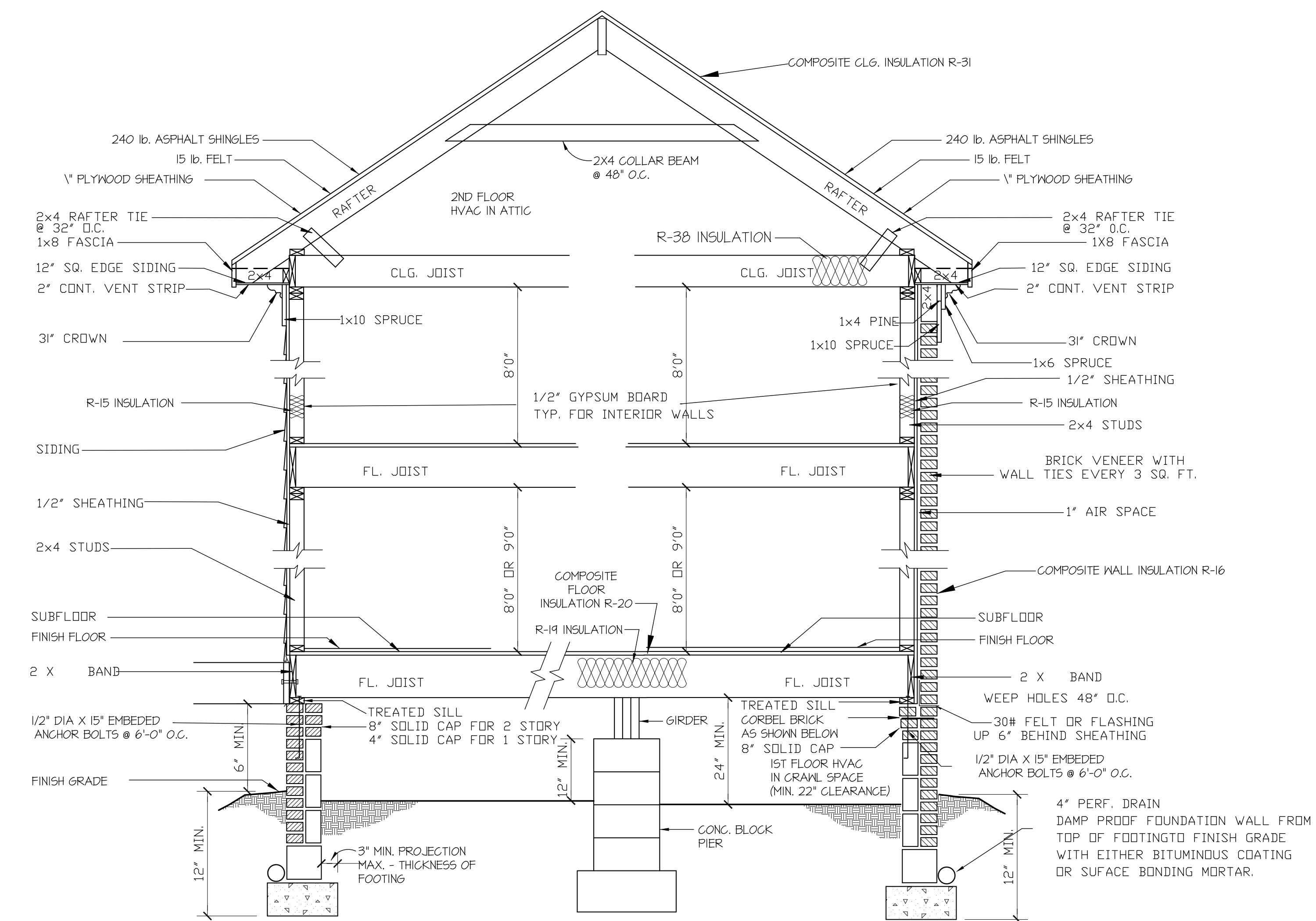
2
 OF
 3

PLAN NO.
 DK2017



4\"/>

SLAB FDN. DETAIL
SCALE: 1\"/>



SIDING SECTION

BRICK SECTION

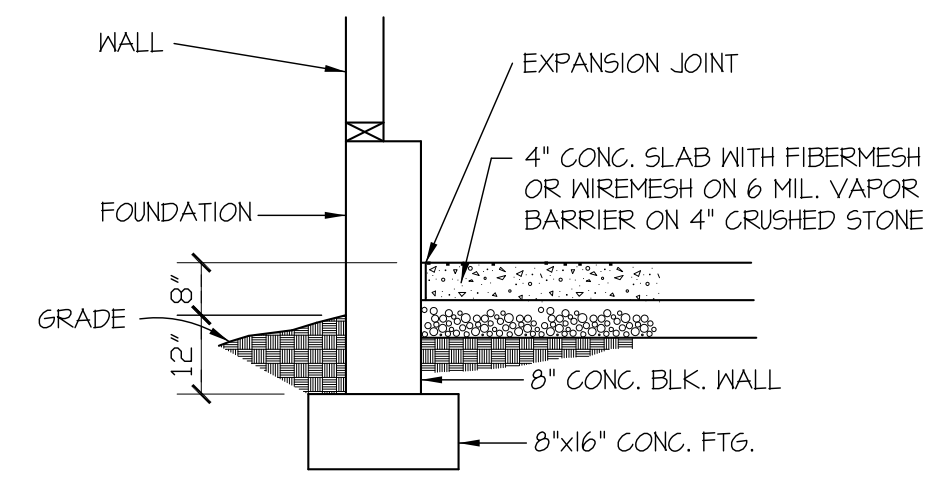
WALL SECTION
SCALE: 1\"/>

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 = 747 SQ. FT.
 $747/150 = 4.98$ 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.

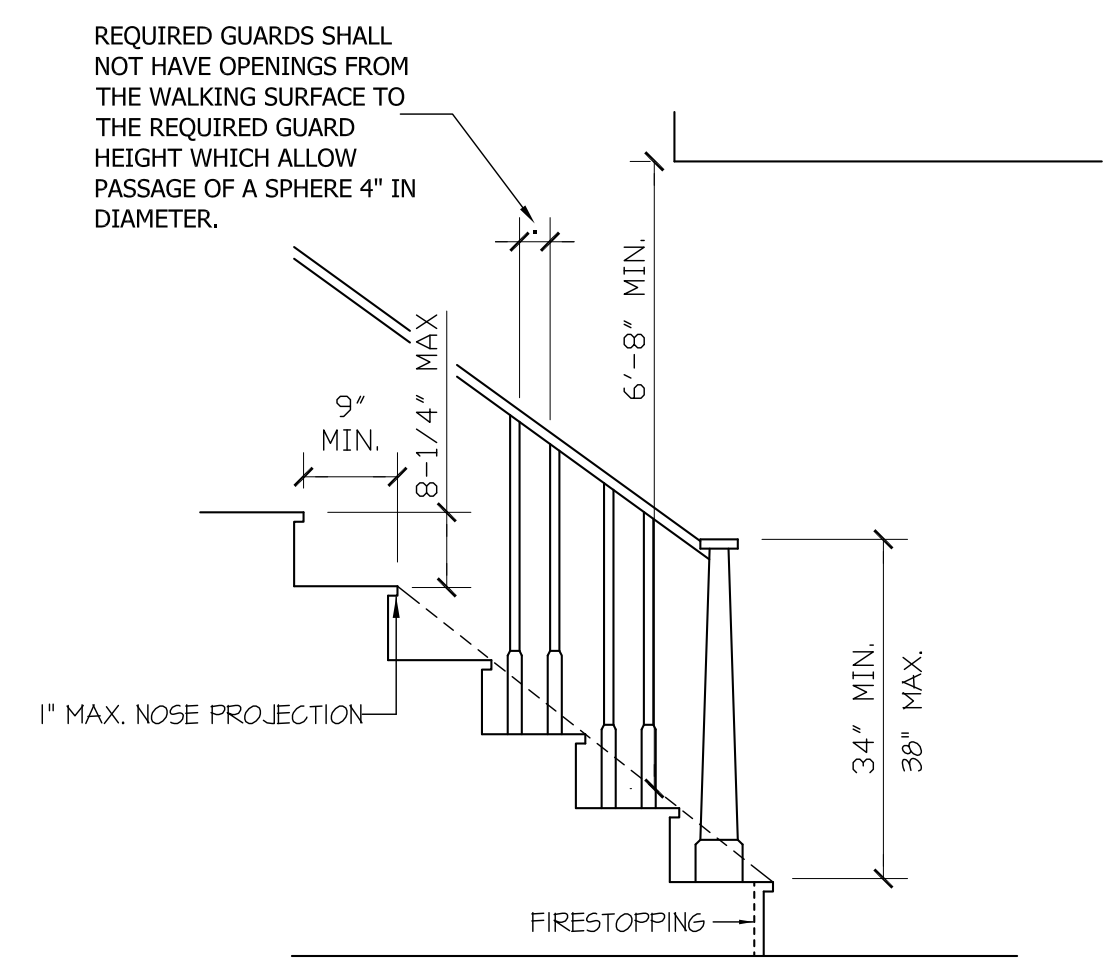
ROOF VENTILATING REQUIREMENTS
 $\frac{1392}{150} = 9.28$ SQ. FT. REQ'D

ROOF VENTILATING REQUIREMENTS
 (POWER ROOF VENTILATOR REQUIRED)
 $\frac{1392}{300} = 4.64$ SQ. FT. REQ'D

BUILDER TO PROVIDE APPROPRIATE VENTILATING AS REQUIRED.



GARAGE SLAB
SCALE: NTS



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

STAIR DETAIL
SCALE: NTS

TRIANGLE DEALS. LLC
"THE CROWDER"



ANGIER, NC
919-369-7181

DRAWN BY:
D.V.O.

DATE:
8/12/20

PAGE NO

3

OF

3

PLAN NO.
DK2017

GENERAL FOUNDATION NOTES:

1. THIS PLAN DESIGNED IN ACCORDANCE WITH THE NORTH CAROLINA RESIDENTIAL BUILDING CODE, 2018 EDITION.
2. EXTERIOR WALL FOOTING TO BE A MINIMUM OF 16" WIDE AND CONSTRUCTED WITH 3000 PSI CONCRETE. FOR FOUNDATION WALL HEIGHT, THICKNESS AND BACKFILL REQUIREMENTS REFER TO STATE AND LOCAL BUILDING CODES. THE ASSUMED SOIL BEARING CAPACITY FOR THIS PROJECT IS 2000 PSF. THE CONTRACTOR MUST VERIFY THE SITE CONDITIONS AND CONTACT A SOILS ENGINEER IF MARGINAL OR UNSTABLE SOILS ARE ENCOUNTERED.
3. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SUB-GRADE A MINIMUM OF 12" BELOW ADJACENT FINISHED GRADE OR AS OTHERWISE DIRECTED BY THE LOCAL INSPECTOR.
4. FOUNDATION DRAINAGE SHALL BE IN ACCORDANCE WITH SECTION R405 "FOUNDATION DRAINAGE" AND SECTION R406 "FOUNDATION WATERPROOFING AND DAMPPROOFING".
5. ANCHOR BOLTS SHALL BE 1/2" DIAMETER AND INSTALLED AT 12" ON CENTER AND 12" FROM EACH CORNER OR SILL PLATE SPICE LOCATIONS.

STRUCTURAL EVALUATION BY:

WILKINS ENGINEERING, P.C.
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 Raleigh, North Carolina 27627

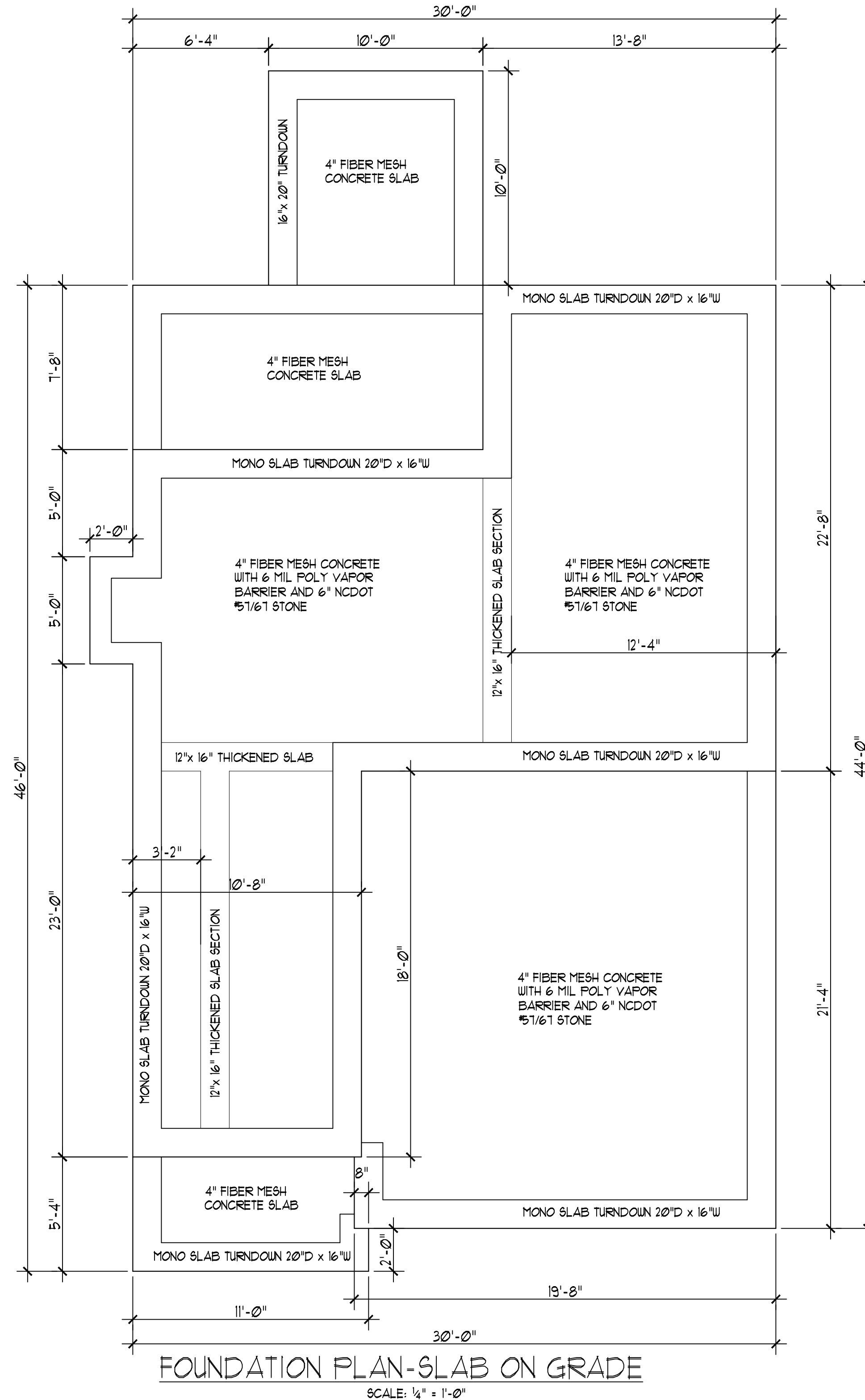
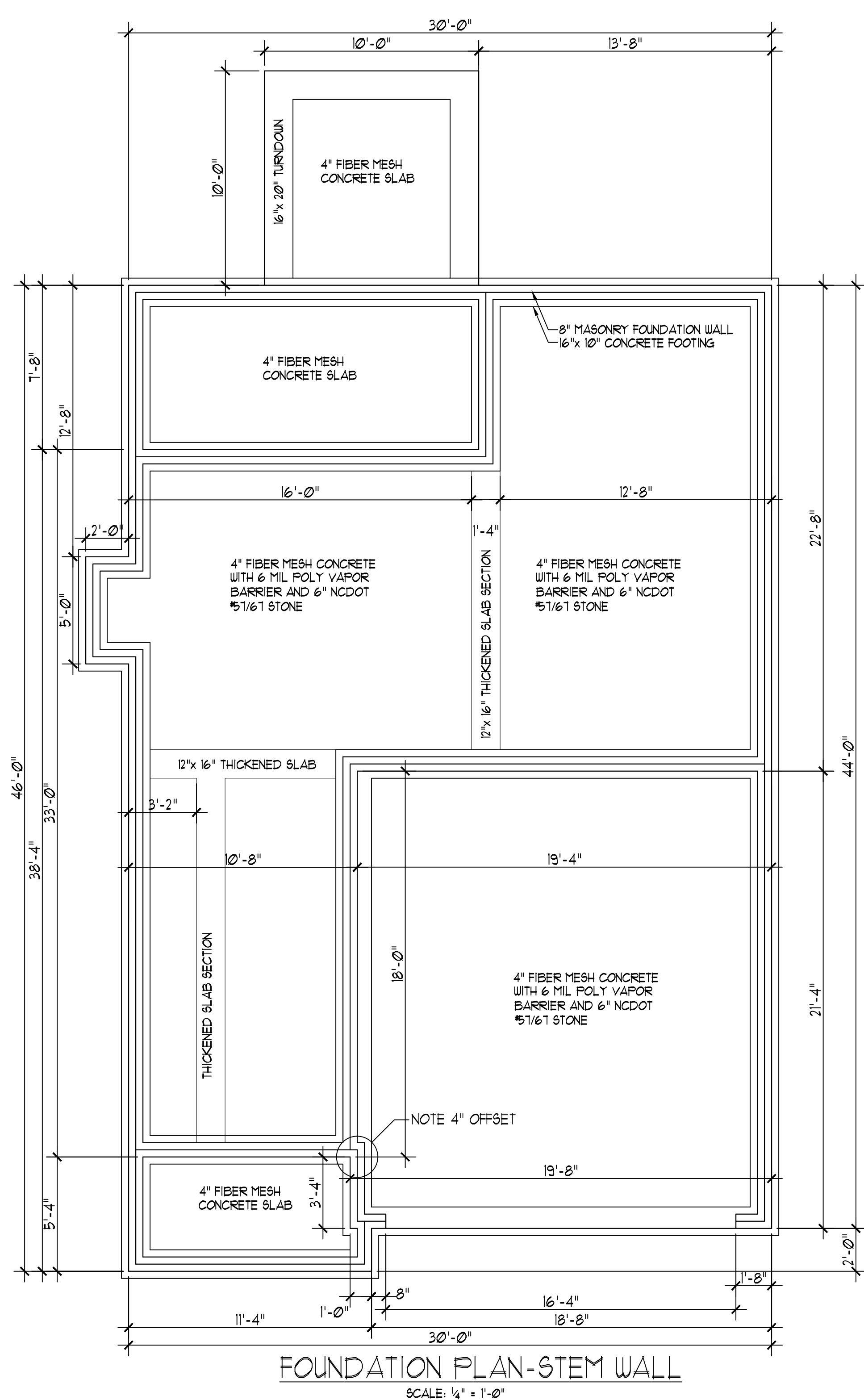
Ronald B. Wilkins
 ARCHITECT/ENGINEER
 9/15/2021

FILE: CROW-REV

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DO NOT SCALE THESE DRAWINGS

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TRIANGLE DEALS, LLC
 THE CROWDER PLAN

Sheet No. S1A

GENERAL FOUNDATION NOTES:

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3. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SUB-GRADE A MINIMUM OF 12" BELOW ADJACENT FINISHED GRADE OR AS OTHERWISE DIRECTED BY THE LOCAL INSPECTOR.
4. FOUNDATION DRAINAGE SHALL BE IN ACCORDANCE WITH SECTION R405 "FOUNDATION DRAINAGE" AND SECTION R406 "FOUNDATION WATERPROOFING AND DAMPPROOFING".
5. ANCHOR BOLTS SHALL BE 1/2" DIAMETER AND INSTALLED AT 12" ON CENTER AND 12" FROM EACH CORNER OR SILL PLATE SPICE LOCATIONS.

STRUCTURAL EVALUATION BY:

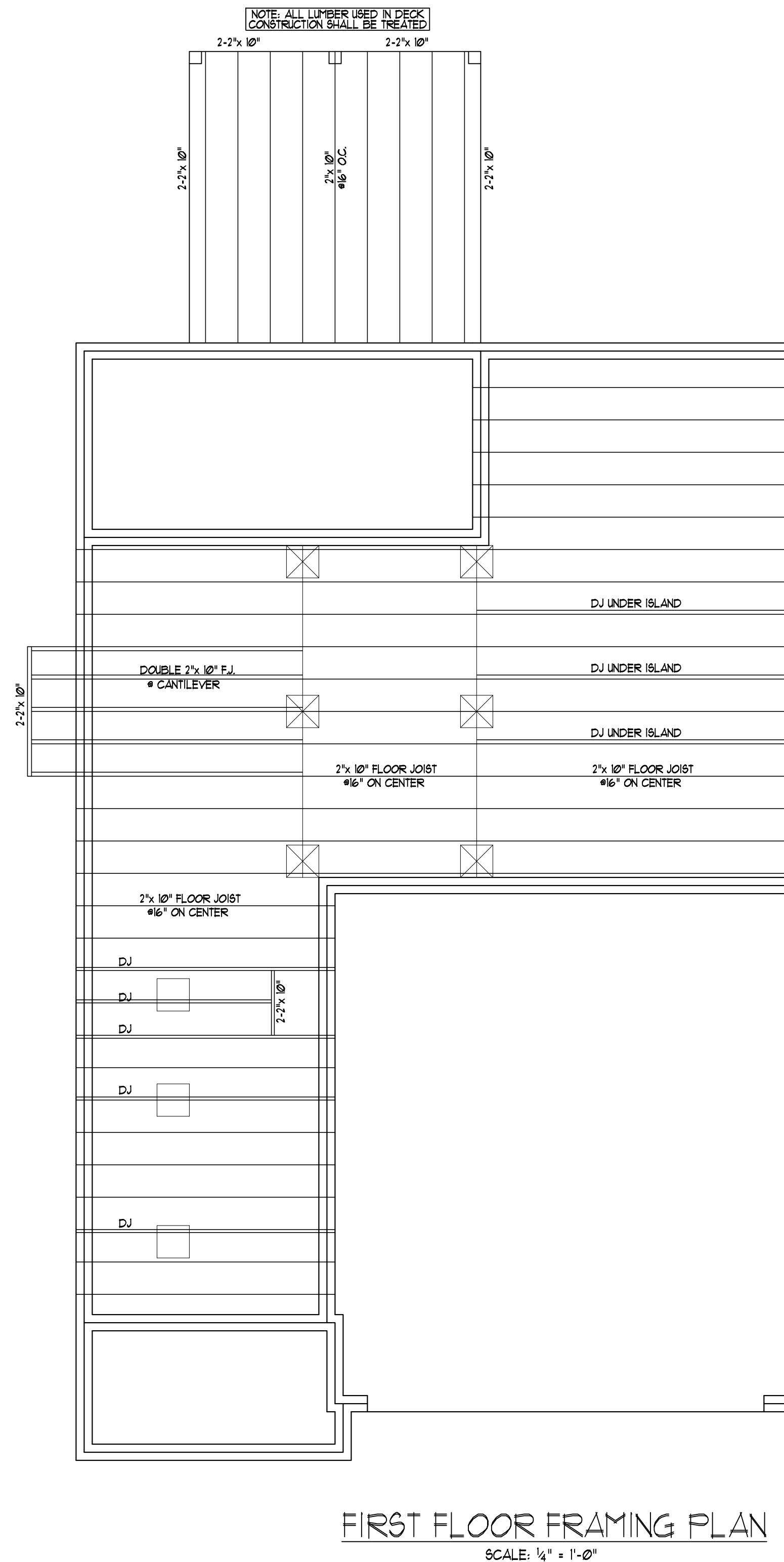
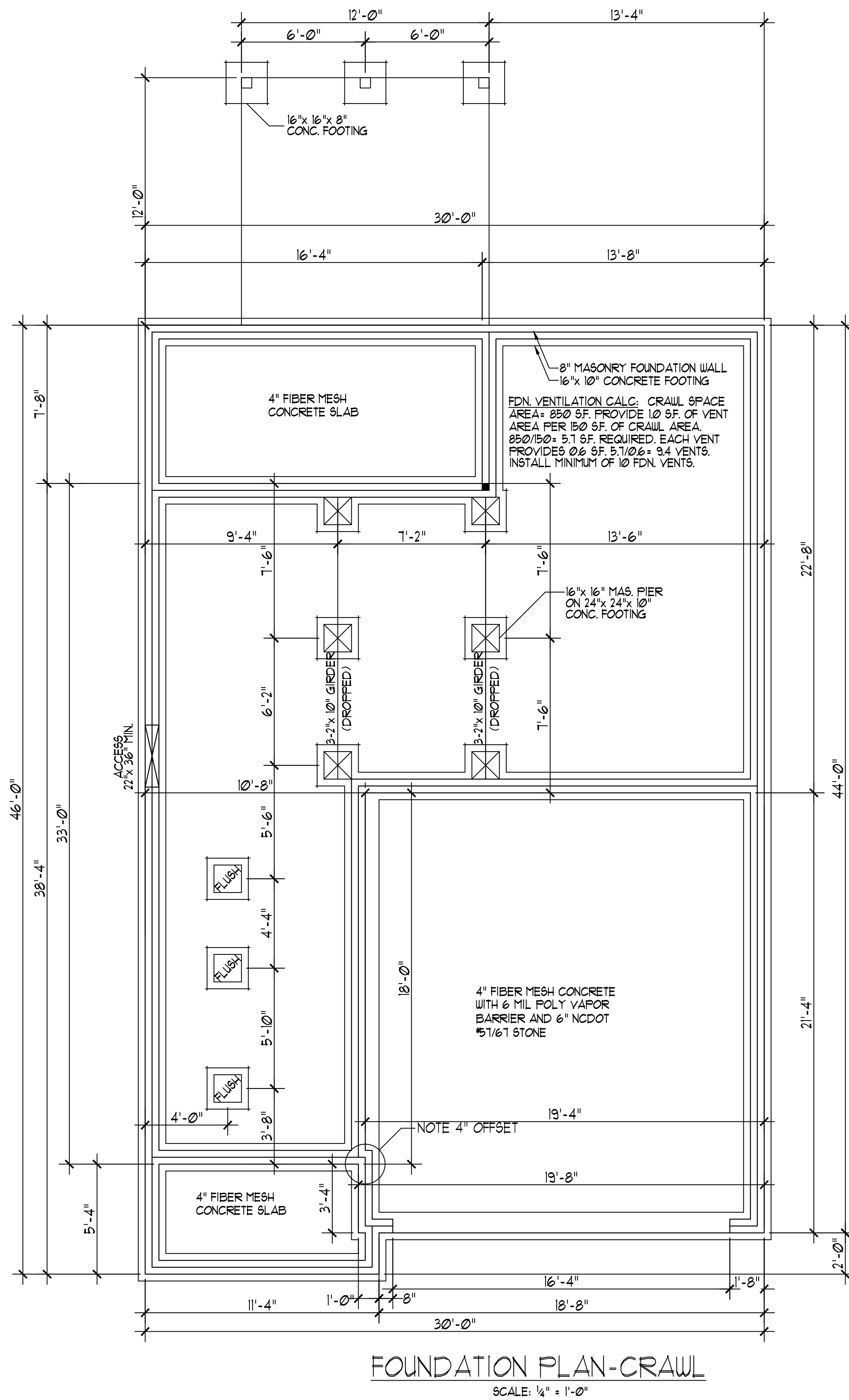
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Raleigh, North Carolina 27621



9/15/2021

FILE: CROW-REV

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ALL DIMENSIONS AND SITE DIMENSIONS ARE TO BE VERIFIED BEFORE CONSTRUCTION BEGINS. SHOULD THE CONTRACTOR DISCOVER ANY DISCREPANCIES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. THESE DRAWINGS APPLY TO STRUCTURAL ELEMENTS ONLY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR CODE COMPLIANCE OF NON-STRUCTURAL ITEMS.

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TRIANGLE DEALS, LLC
THE CROWDER PLAN

Sheet No.
51

GENERAL NOTES:
 1. THIS PLAN IS DESIGNED IN ACCORDANCE WITH THE NORTH CAROLINA RESIDENTIAL BUILDING CODE, 2018 EDITION.
 2. WALL CLADDING IS DESIGNED FOR A POSITIVE/NEGATIVE PRESSURE OF NOT LESS THAN 24J PSF.
 3. ROOF CLADDING DESIGN VALUES (POSITIVE/NEGATIVE) SHALL BE AS FOLLOWS:
 45.5 PSF FOR ROOF PITCHES FROM 0/12 TO 2.25/12
 34.5 PSF FOR ROOF PITCHES FROM 2.25/12 TO 1/12
 21.0 PSF FOR ROOF PITCHES FROM 1/12 TO 12/12
 MEAN ROOF HEIGHT FOR THIS STRUCTURE IS 18'
 4. ALL WALLS, CEILING, AND FLOORS SHALL BE INSULATED IN ACCORDANCE WITH PART IV, ENERGY CONSERVATION, CHAPTER II, ENERGY EFFICIENCY OF THE CODE FOR ZONE 4A (TABLE N102.1).
 5. DESIGN CRITERIA IS AS FOLLOWS:

FLOOR	DEAD LOAD (PSF)	LIVE LOAD (PSF)
PRIMARY FLOOR	10	40
SECONDARY FLOOR	10	40
SLEEPING AREAS	10	40
ATTIC (W/ STAIRS)	10	30
ATTIC (W/O STAIRS)	10	20
ROOF	10	20

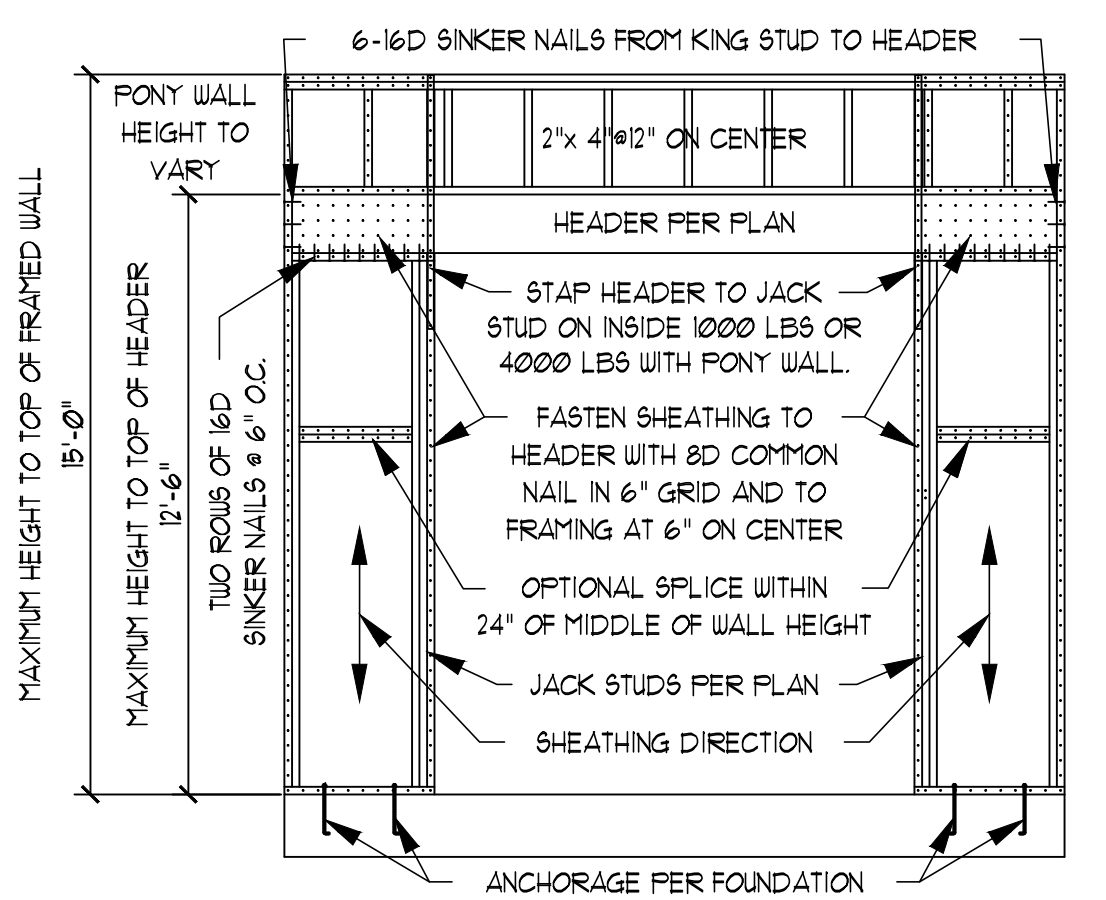
WIND LOADING IS BASED ON 3 SECOND GUST OF 15 MILES PER HOUR. LIVE LOAD DEFLECTION LIMITS (LIVE LOAD) ARE L/360 FOR FLOORS, L/240 FOR ROOF. ALL HEADERS IN LOAD BEARING WALL SHALL BE 2'-2" x 10" UNLESS NOTED OTHERWISE. FULL HEIGHT KING STUDS SHALL BE INSTALLED PER EACH SIDE OF EXTERIOR WALL. HEADERS AND BEAMS AS FOLLOWS:

HEADER SPAN	STUDS @ 16" O.C.	STUDS @ 24" O.C.
3'-0"	1	1
4'-0"	2	2
8'-0"	3	1
12'-0"	5	3
16'-0"	6	4

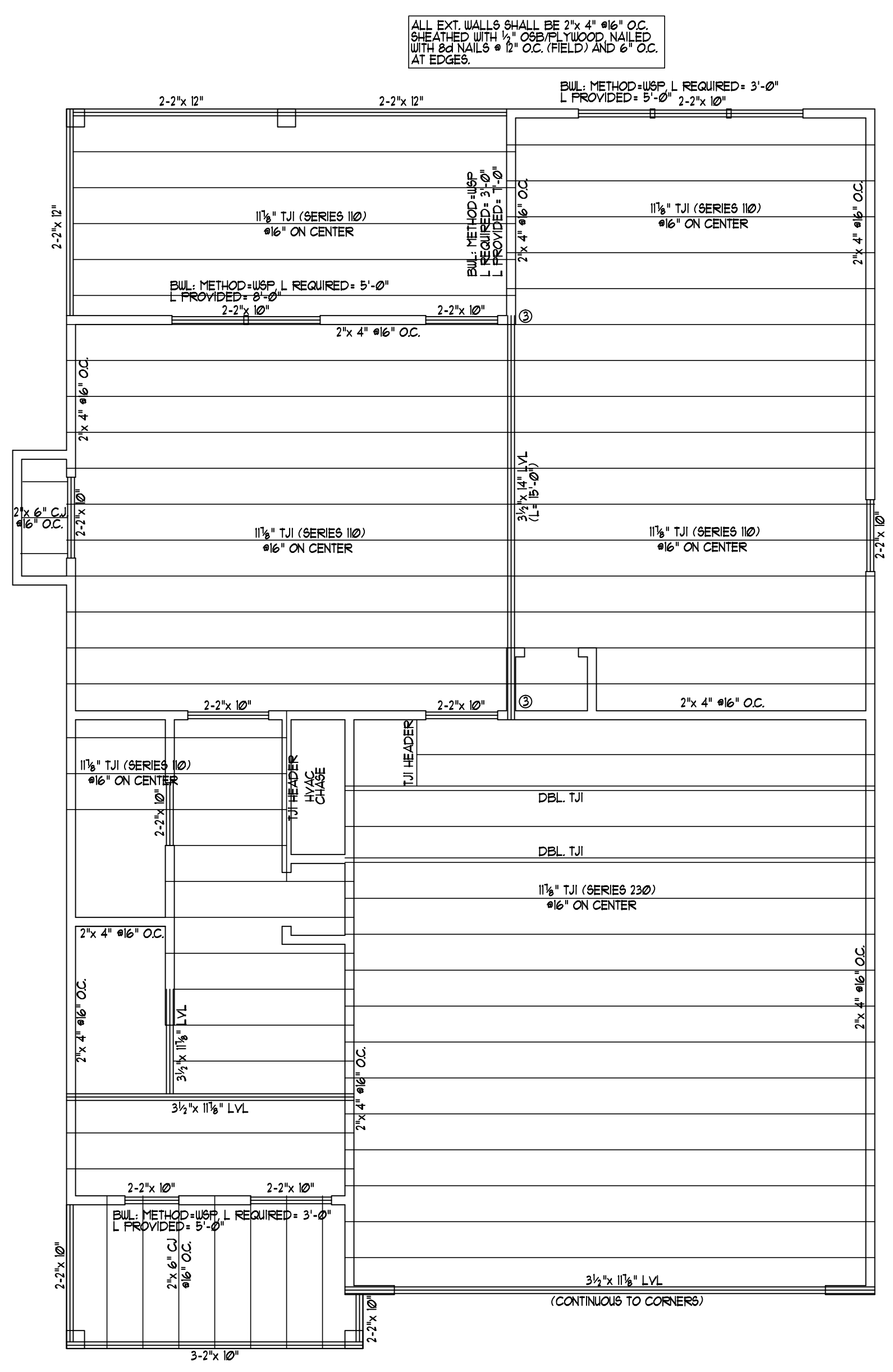
- ALL LUMBER USED FOR JOISTS AND RAFTERS SHALL BE #1 SFF OR BETTER LUMBER. LUMBER USED FOR STUD WALL SHALL BE #1 SFF OR BETTER. DOUBLE FLOOR JOISTS SHALL BE INSTALLED UNDER INTERIOR WALLS RUNNING PARALLEL WITH THE FLOOR JOISTS.
- LVL SHALL BE LAMINATED VENEER LUMBER OR PARALLEL STRAND LUMBER WITH THE FOLLOWING MINIMUM PROPERTIES: Fb=2800 PSI, Fv=295 PSI, E=3,000,000 PSI. MULTIPLE LVL PLIES CAN BE USED TO ACHIEVE THE SPECIFIED SIZE SHOWN ON THESE PLANS AND IS CONSIDERED TO BE STRUCTURALLY EQUIVALENT.
- THE FOLLOWING SHALL APPLY TO ALL BRACED WALL LINES:
 ALL EXTERIOR WALLS SHALL BE CONTINUOUSLY SHEATHED WITH 1/2" OSB OR CDX #5 SP. BOARD ON THE INTERIOR FACE. ALL USP PANELS SHALL BE FASTENED WITH 8d NAILS AT 12" ON CENTER (FIELD) AND 6" ON CENTER (EDGES). ALL EXTERIOR WALLS SHALL BE 2" x 4" AT 16" ON CENTER AS A MINIMUM (EXCEPT FOR BALLOON FRAMED WALL SECTIONS AS NOTED) AND CONTINUOUSLY SHEATHED.

STRUCTURAL EVALUATION BY:
 WILKINS ENGINEERING, P.C.
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 Raleigh, North Carolina 27621
 9/15/2021
 FILE: CROW-REV

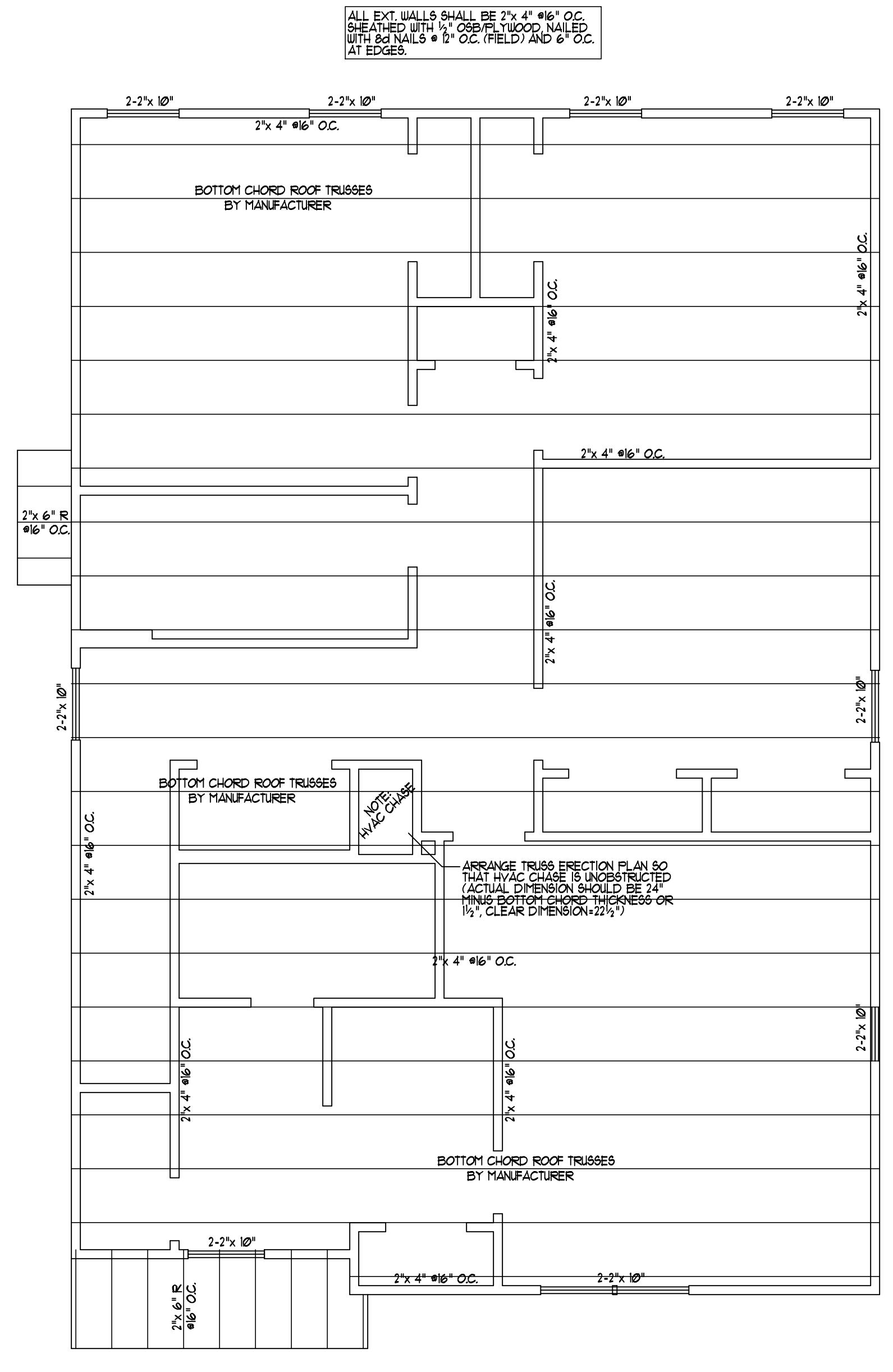
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PF PORTAL FRAME AT OPENING
 (METHOD PF PER FIGURE AND SECTION R602.10.1)



FIRST FLOOR CEILING STRUCTURAL
 SCALE: 1/4" = 1'-0"



SECOND FLOOR CEILING STRUCTURAL
 SCALE: 1/4" = 1'-0"

DO NOT SCALE THESE DRAWINGS. ALL DIMENSIONS AND SITE CONDITIONS ARE TO BE VERIFIED BY THE CONTRACTOR. ANY DISCREPANCIES OR OMISSIONS NOTED BY THE CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER. THESE DRAWINGS APPLY TO STRUCTURAL ELEMENTS ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR THE COST OF NON-STRUCTURAL ITEMS.

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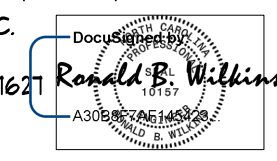
TRIANGLE DEALS, LLC
THE CROWDER PLAN
 Sheet No.

GENERAL ROOF NOTES:

1. THIS PLAN DESIGNED IN ACCORDANCE WITH THE NORTH CAROLINA RESIDENTIAL BUILDING CODE, 2018 EDITION.
2. ROOF CLADDING DESIGN VALUES (POSITIVE/NEGATIVE) SHALL BE AS FOLLOWS:
 45.5 PSF FOR ROOF PITCHES FROM 0/12 TO 2/12
 34.5 PSF FOR ROOF PITCHES FROM 2.25/12 TO 1/12
 21.0 PSF FOR ROOF PITCHES FROM 1/12 TO 0/12
 MEAN ROOF HEIGHT FOR THIS STRUCTURE IS 18'
3. ALL ROOFING ELEMENTS SHALL MEET THE REQUIREMENTS OF CHAPTER 8 OF THE BUILDING CODE.
4. ALL LUMBER SHALL BE 12, 5FF, SYP, OR BETTER.
5. THIS ROOF AND STRUCTURE ARE DESIGNED FOR A DESIGN WIND SPEED OF 115 MPH (THREE SECOND GUST).
6. ROOF TRUSSES (IF USED) SHALL BE DESIGNED BY THE MANUFACTURER AND THE ANALYSIS SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

STRUCTURAL EVALUATION BY:

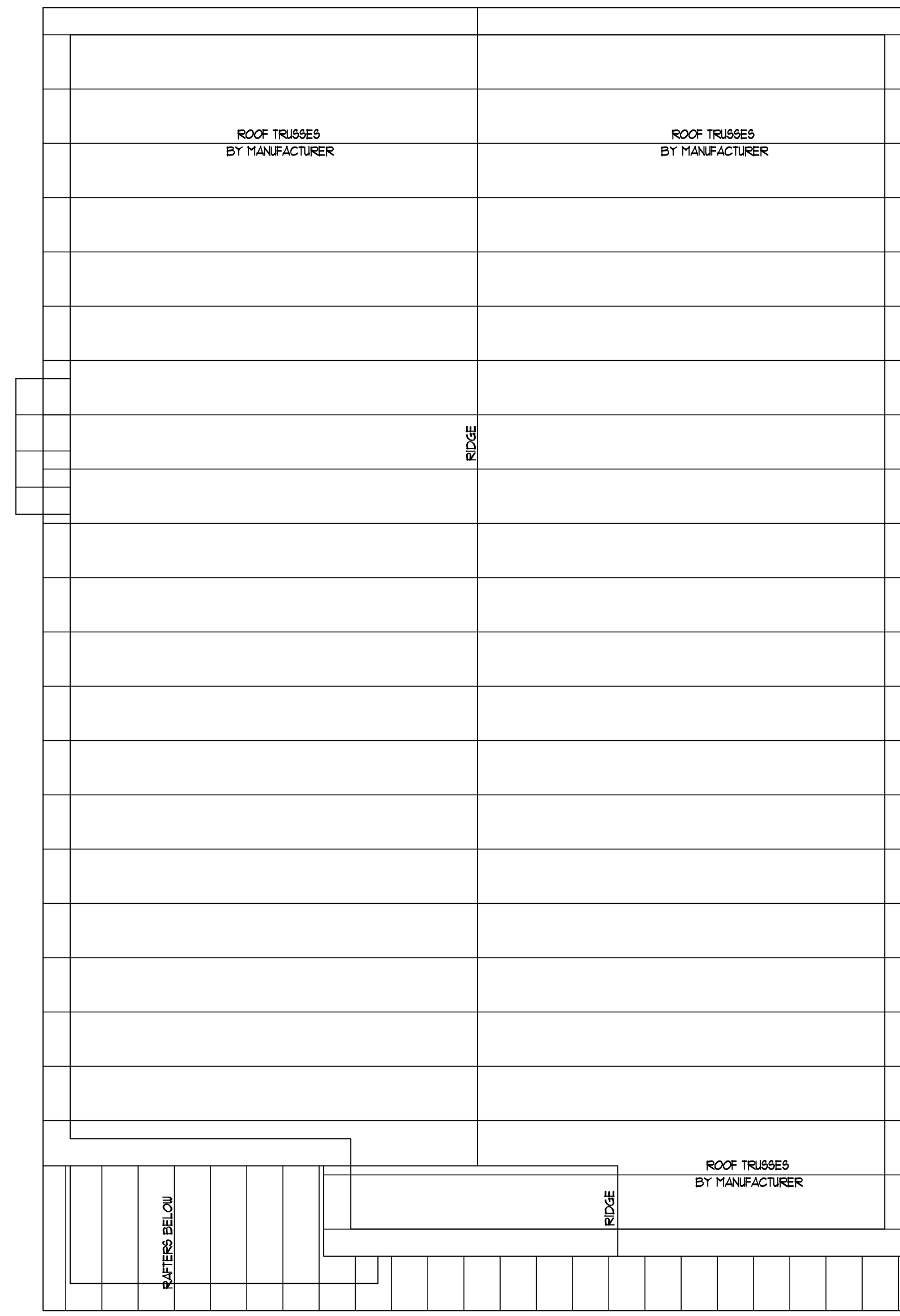
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 Raleigh, North Carolina 27627



FILE: CROU-REV
 9/15/2021

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ATTIC VENTILATION CALCULATION: ATTIC AREA
 EQUALS 1265 SF WITH VENTILATION REQUIRED AT ONE SF
 PER 300 SF OF CRAWL AREA (285 SF/250' x 428 SF OF VENT
 AREA REQUIRED. PROVIDED FULL RIDGE VENT AT SOFFIT VENTS
 IN PERIMETER OVERHANG.



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

DO NOT SCALE THESE DRAWINGS
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TRIANGLE DEALS, LLC
 THE CROWDER PLAN
 919.772.3540

Sheet No. 33

GENERAL NOTES:

- THIS PLAN IS DESIGNED IN ACCORDANCE WITH THE NORTH CAROLINA RESIDENTIAL BUILDING CODE, 2018 EDITION.
- WALL CLADDING IS DESIGNED FOR A POSITIVE/NEGATIVE PRESSURE OF NOT LESS THAN 241 PSF.
- ROOF CLADDING DESIGN VALUES (POSITIVE/NEGATIVE) SHALL BE AS FOLLOWS:
 45 PSF FOR ROOF PITCHES FROM 0/12 TO 2/12
 34.5 PSF FOR ROOF PITCHES FROM 2.25/12 TO 1/12
 21.0 PSF FOR ROOF PITCHES FROM 1/12 TO 0/12
 MEAN ROOF HEIGHT FOR THIS STRUCTURE IS 10'
- ALL WALLS, CEILINGS, AND FLOORS SHALL BE INSULATED IN ACCORDANCE WITH PART IV, ENERGY CONSERVATION, CHAPTER II, ENERGY EFFICIENCY OF THE CODE FOR ZONE 4A (TABLE N10(2)).
- DESIGN CRITERIA IS AS FOLLOWS:

	DEAD LOAD (PSF)	LIVE LOAD (PSF)
PRIMARY FLOOR	10	40
SECONDARY FLOOR	10	40
SLEEPING AREAS	10	40
ATTIC (W/ STAIRS)	10	30
ATTIC (W/O STAIRS)	10	20
ROOF	10	20

WIND LOADING IS BASED ON 3 SECOND GUST OF 115 MILES PER HOUR
 LIVE LOAD DEFLECTION LIMITS (LIVE LOAD) ARE L/260 FOR FLOORS, L/240 FOR ROOF
 6. ALL HEADERS IN LOAD BEARING WALL SHALL BE 2"x 10" UNLESS NOTED OTHERWISE.
 FULL HEIGHT KING STUDS SHALL BE INSTALLED PM EACH SIDE OF EXTERIOR WALL
 HEADERS AND BEAMS AS FOLLOWS:

HEADER SPAN	STUDS @ 16" O.C.	STUDS @ 24" O.C.
3'-0"	1	1
4'-0"	2	1
6'-0"	3	2
12'-0"	5	3
16'-0"	6	4

7. ALL LUMBER USED FOR JOISTS AND RAFTERS SHALL BE #1 SFF OR BETTER LUMBER USED FOR STUD WALL SHALL BE #2 SFF OR BETTER. DOUBLE FLOOR JOISTS SHALL BE INSTALLED UNDER INTERIOR WALLS RUNNING PARALLEL WITH THE FLOOR JOISTS.

8. LVL SHALL BE LAMINATED VENEER LUMBER OR PARALLEL STRAND LUMBER WITH THE FOLLOWING MINIMUM PROPERTIES: Fb=2800 PSI, Fv=285 PSI, E=2,000,000 PSI. MULTIPLE LVL PLIES CAN BE USED TO ACHIEVE THE SPECIFIED SIZE SHOWN ON THESE PLANS AND IS CONSIDERED TO BE STRUCTURALLY EQUIVALENT.

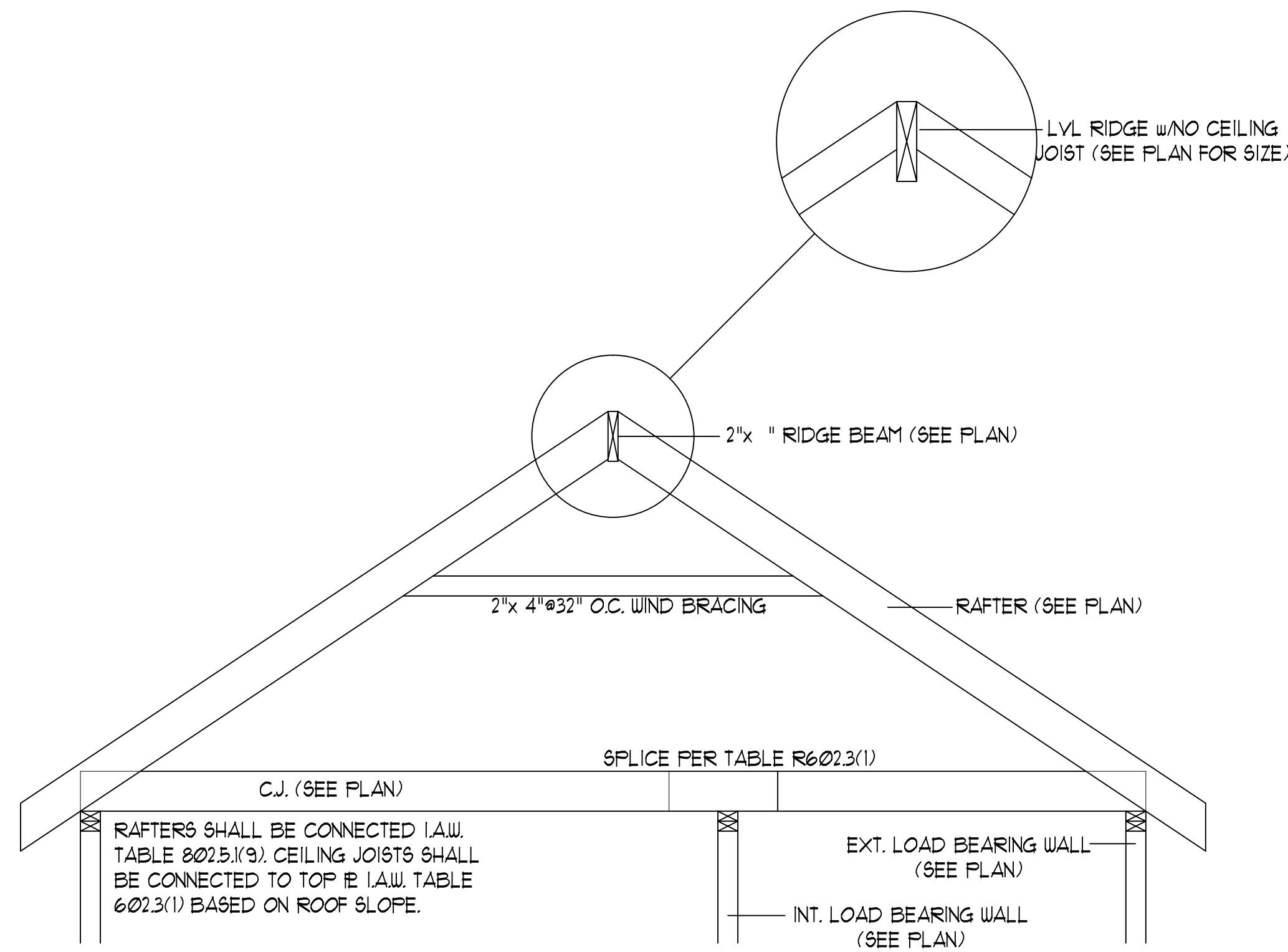
9. THE FOLLOWING SHALL APPLY TO ALL BRACED WALL LINES:
 ALL EXTERIOR WALLS SHALL BE CONTINUOUSLY SHEATHED WITH 1/2" OSB OR CDX USFP SHALL BE IN ACCORDANCE WITH R-602.10.3 AND SHALL BE COVERED WITH 1/2" GYPSUM BOARD ON THE INTERIOR FACE. ALL USFP PANELS SHALL BE FASTENED WITH 8d NAILS AT 12" ON CENTER (FIELD) AND 6" ON CENTER (EDGES). ALL EXTERIOR WALLS SHALL BE 2"x 4" AT 16" ON CENTER AS A MINIMUM (EXCEPT FOR BALLOON FRAMED WALL SECTIONS AS NOTED) AND CONTINUOUSLY SHEATHED.

STRUCTURAL EVALUATION BY:

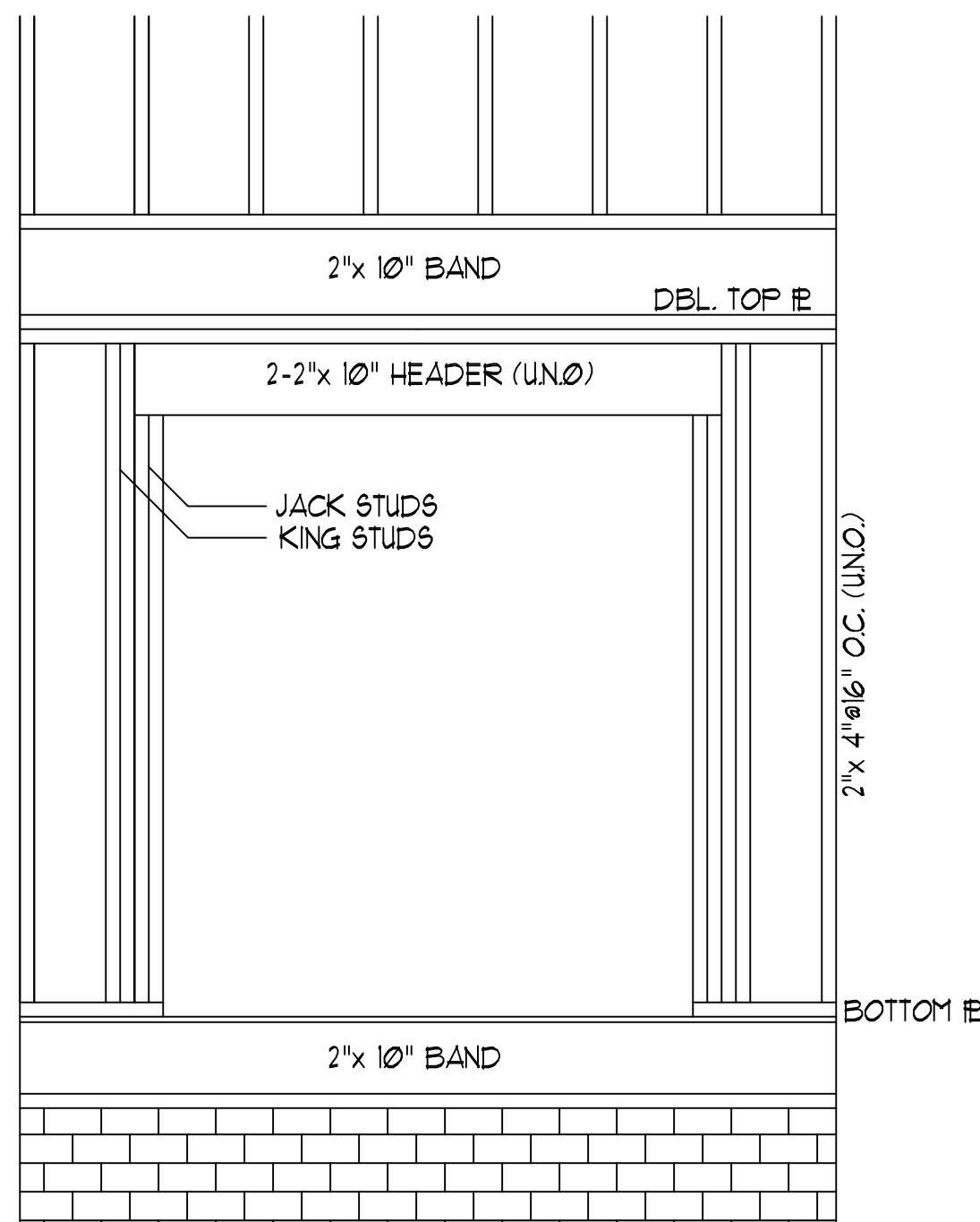
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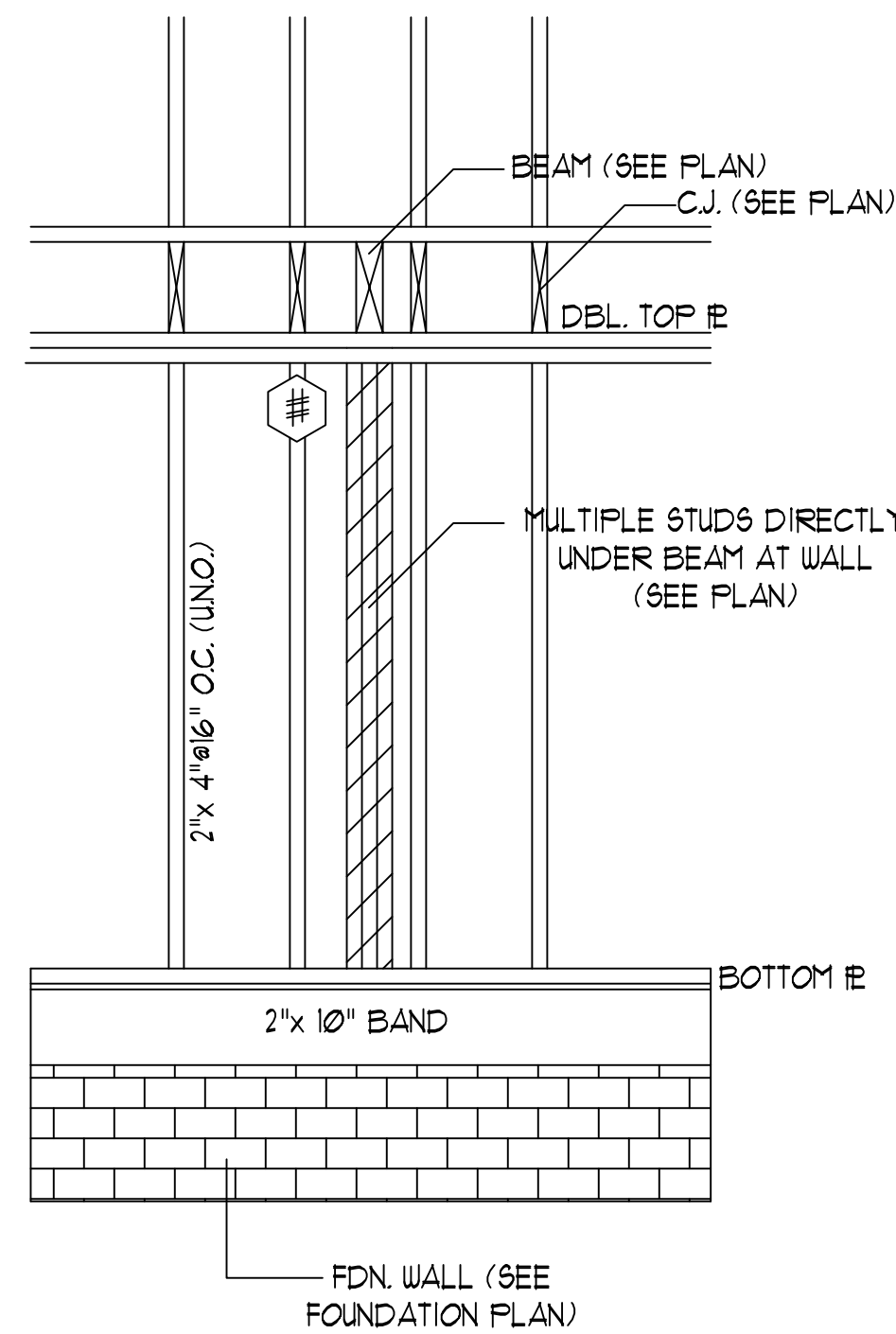
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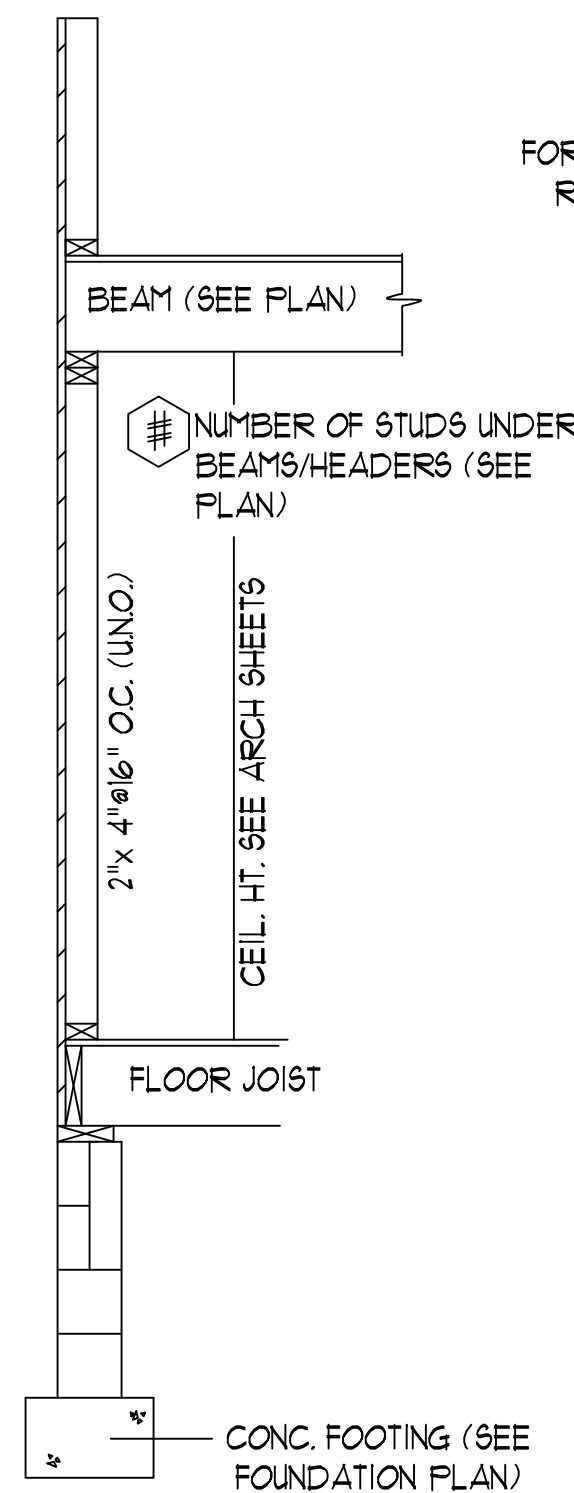
RIDGE BEAM/RAFTER DETAIL (N.T.S)



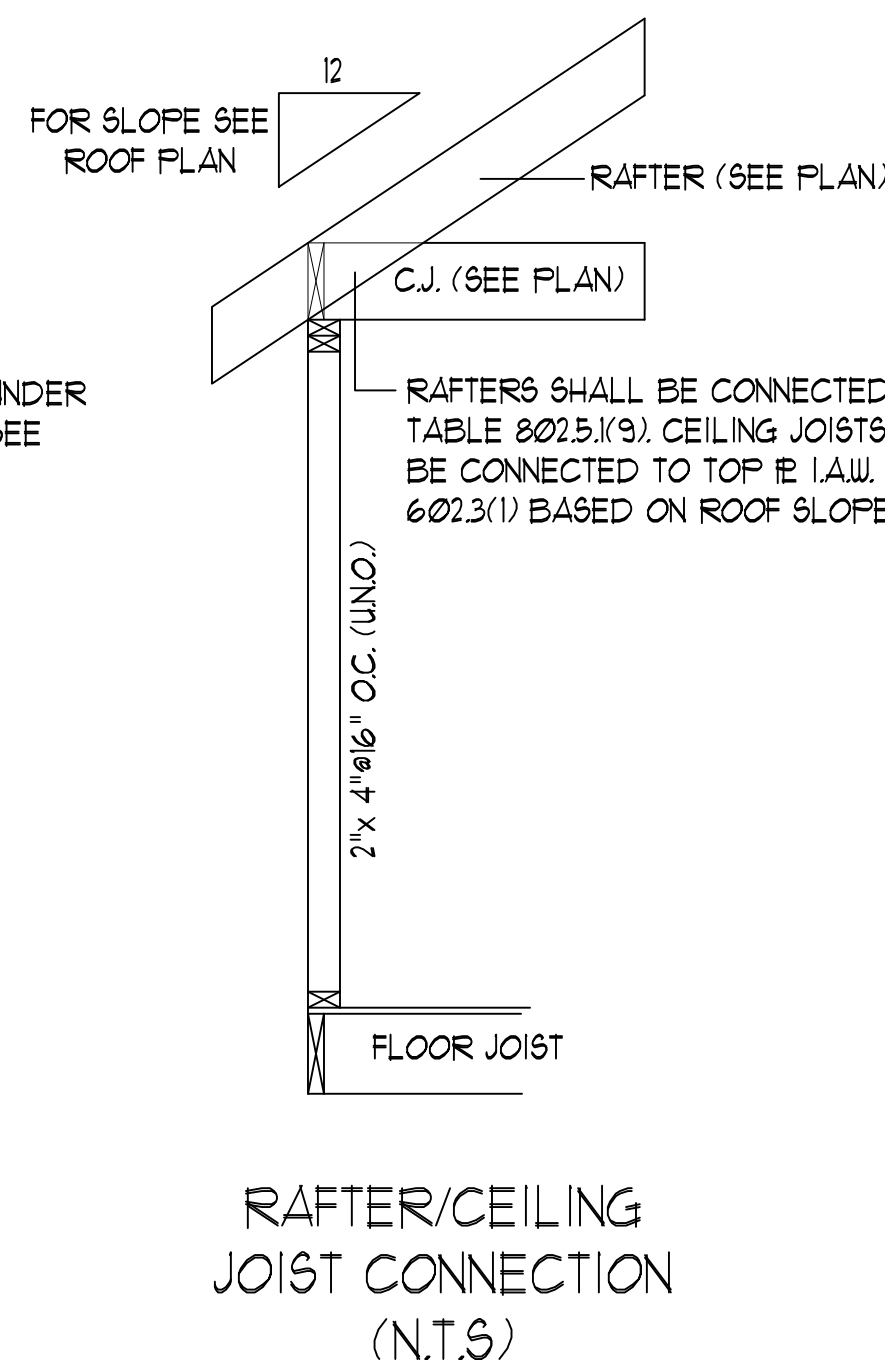
HEADER DETAIL AT EXT. WALL OPENINGS (N.T.S)



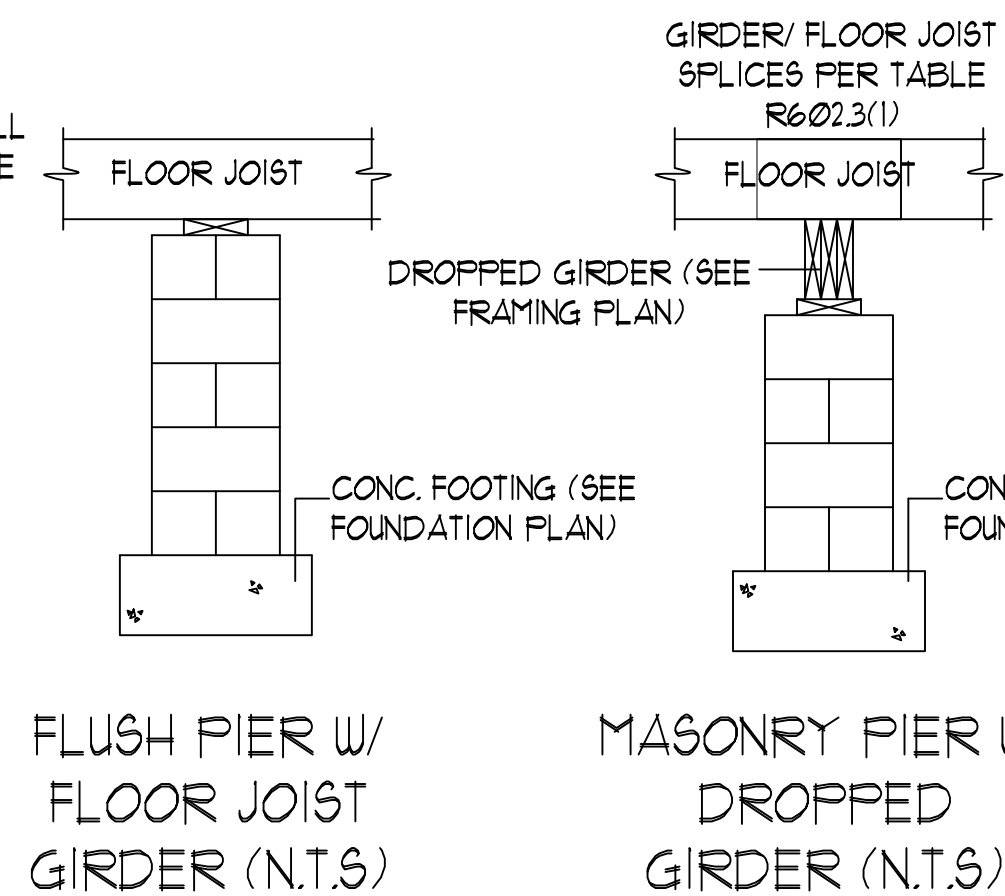
STUD SUPPORT FOR BEAMS/HEADERS (ELEV. N.T.S)



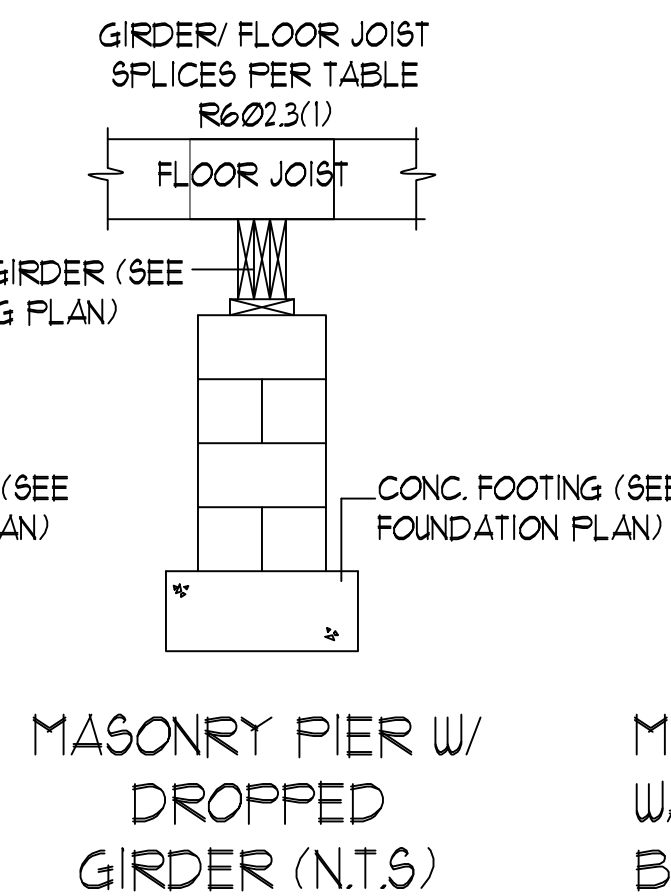
STUD SUPPORT FOR BEAMS/HEADERS (SECT. N.T.S)



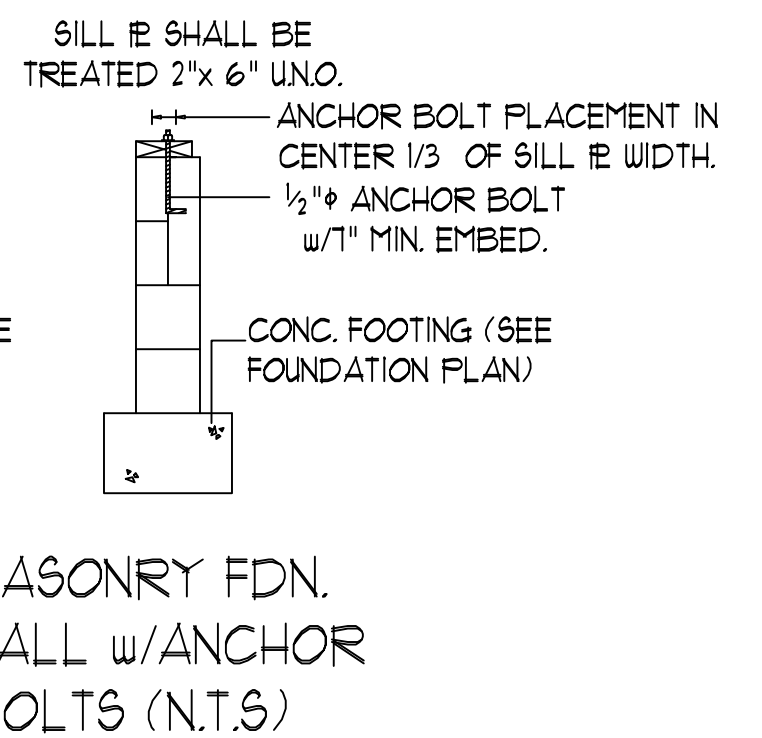
RAFTER/CEILING JOIST CONNECTION (N.T.S)



FLUSH PIER W/ FLOOR JOIST GIRDER (N.T.S)



MASONRY PIER W/ DROPPED GIRDER (N.T.S)



MASONRY FDN. WALL w/ANCHOR BOLTS (N.T.S)

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TRIANGLE DEALS, LLC
 THE CROWDER PLAN

Sheet No.

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