

BUILDER SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT TIME OF CONSTRUCTION.

ALL CONSTRUCTION SHALL CONFORM TO THE 2018 EDITION OF THE NC STATE BUILDING CODE.

CODES GOVERN OVER DRAWINGS.

DIMENSIONS GOVERN OVER SCALE.



VERIFY ALL MECHANICAL REQUIREMENTS BEFORE FRAMING.

YUNCANNON DESIGNS DOES NOT ASSUME LIABILITY FOR ANY DEVIATION OF OR CONSTRUCTION METHODS OF THESE PLANS.

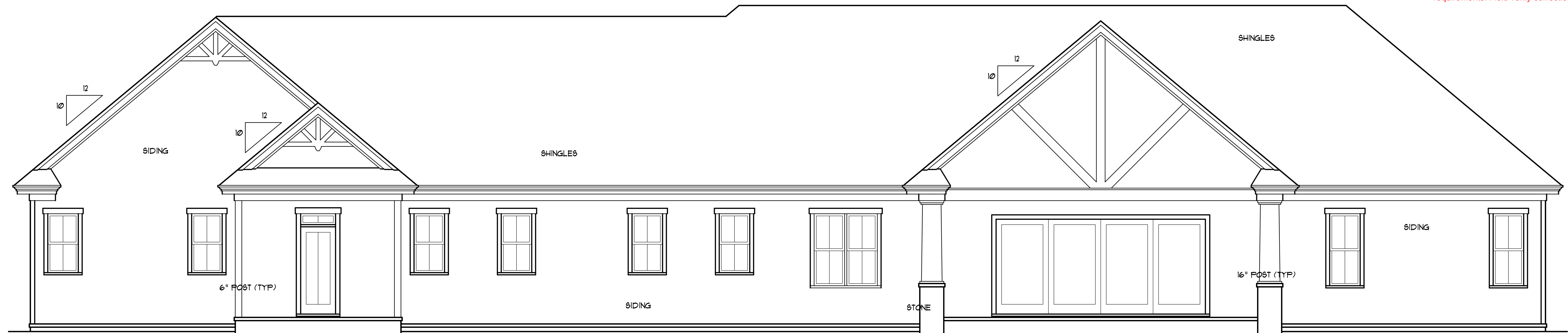
NOTICE TO CONTRACTOR
All construction must comply with current NC Building Code and is subject to field inspection and verification.

APPROVED
Limited building only review.
Permit holder responsible for full compliance with the code.

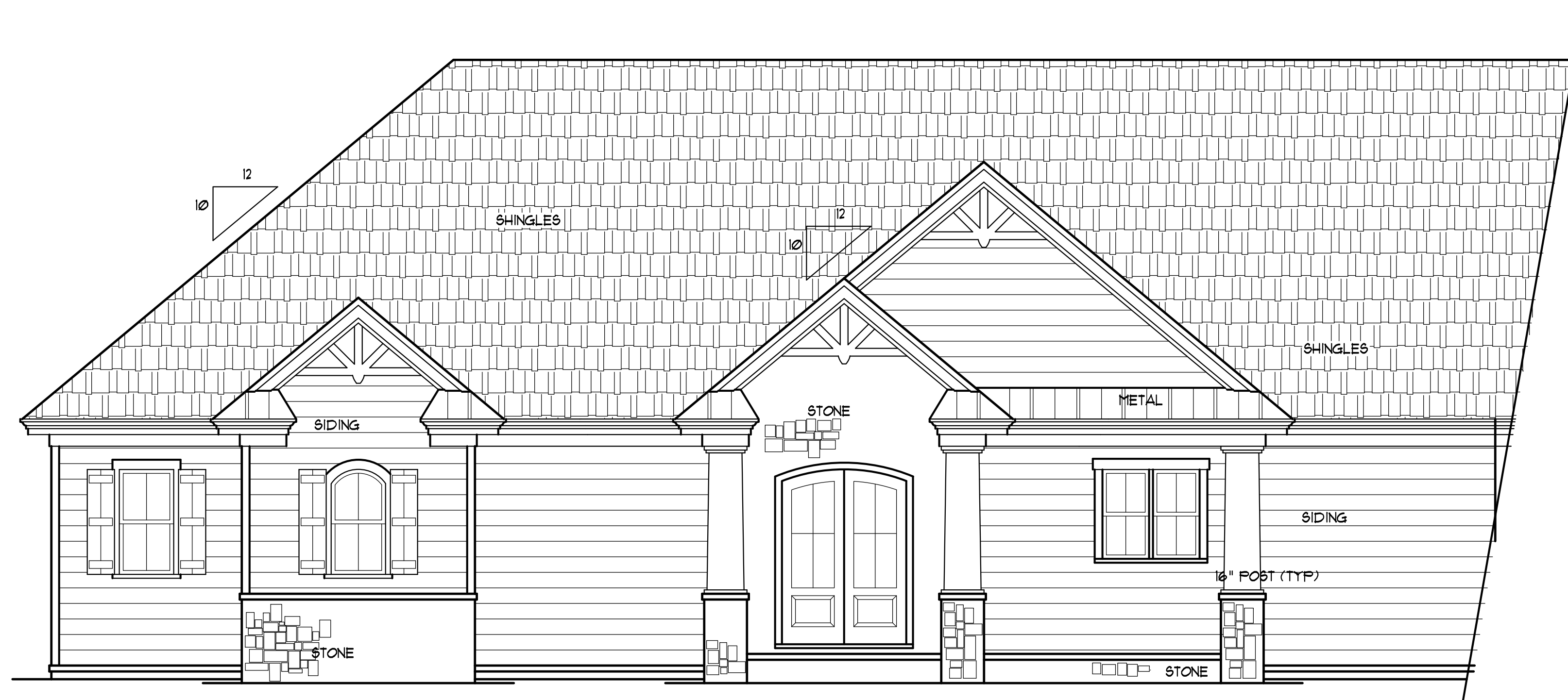
03/29/2022

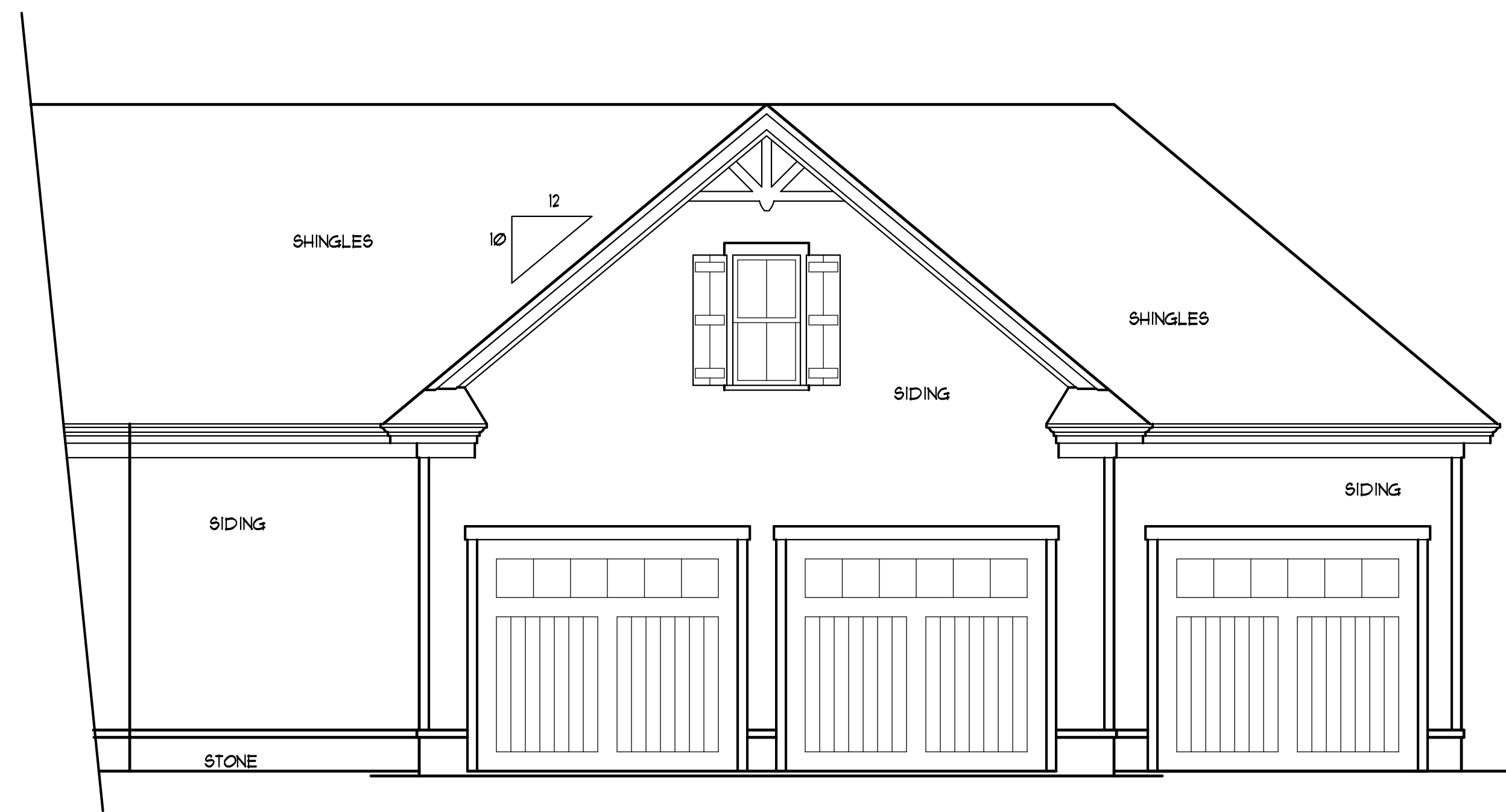
See notes on floor plan. Windows shown in bedrooms will not meet egress requirements. Field verify correction



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



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



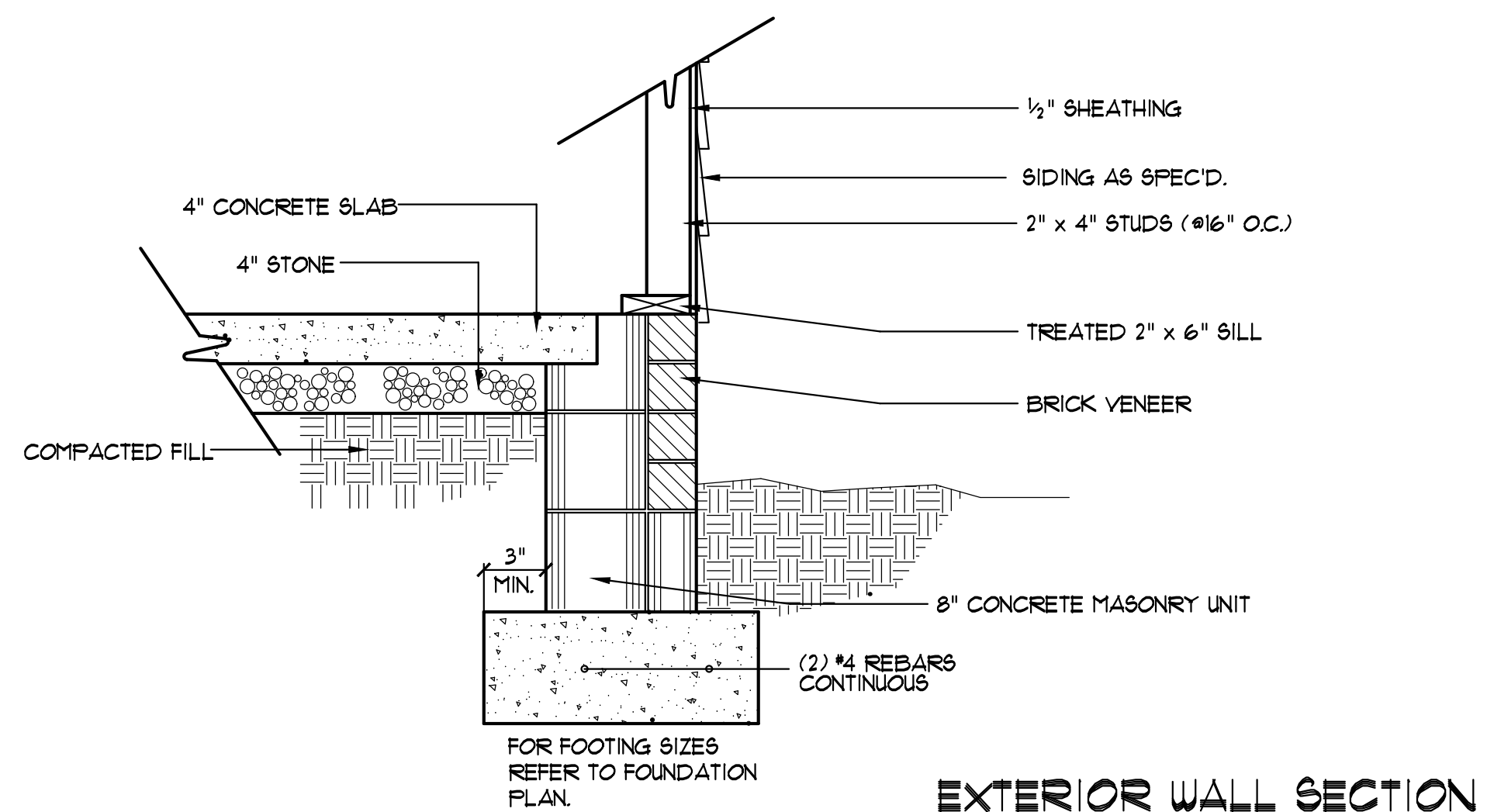
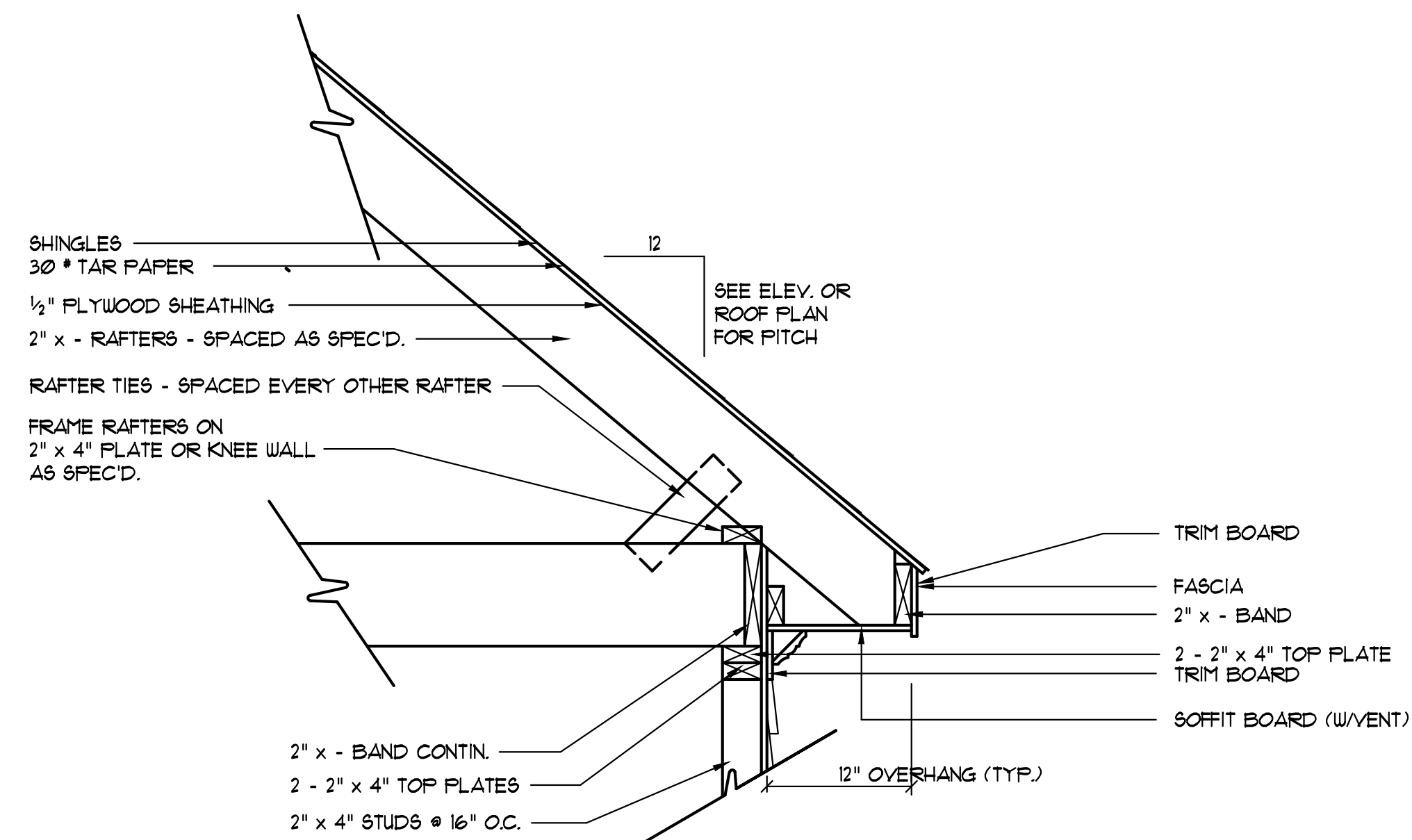
GARAGE ELEVATION
SCALE: 1/4" = 1'-0"

Jerry/Jodie Brock
Neill's Creek Road
Angier, NC

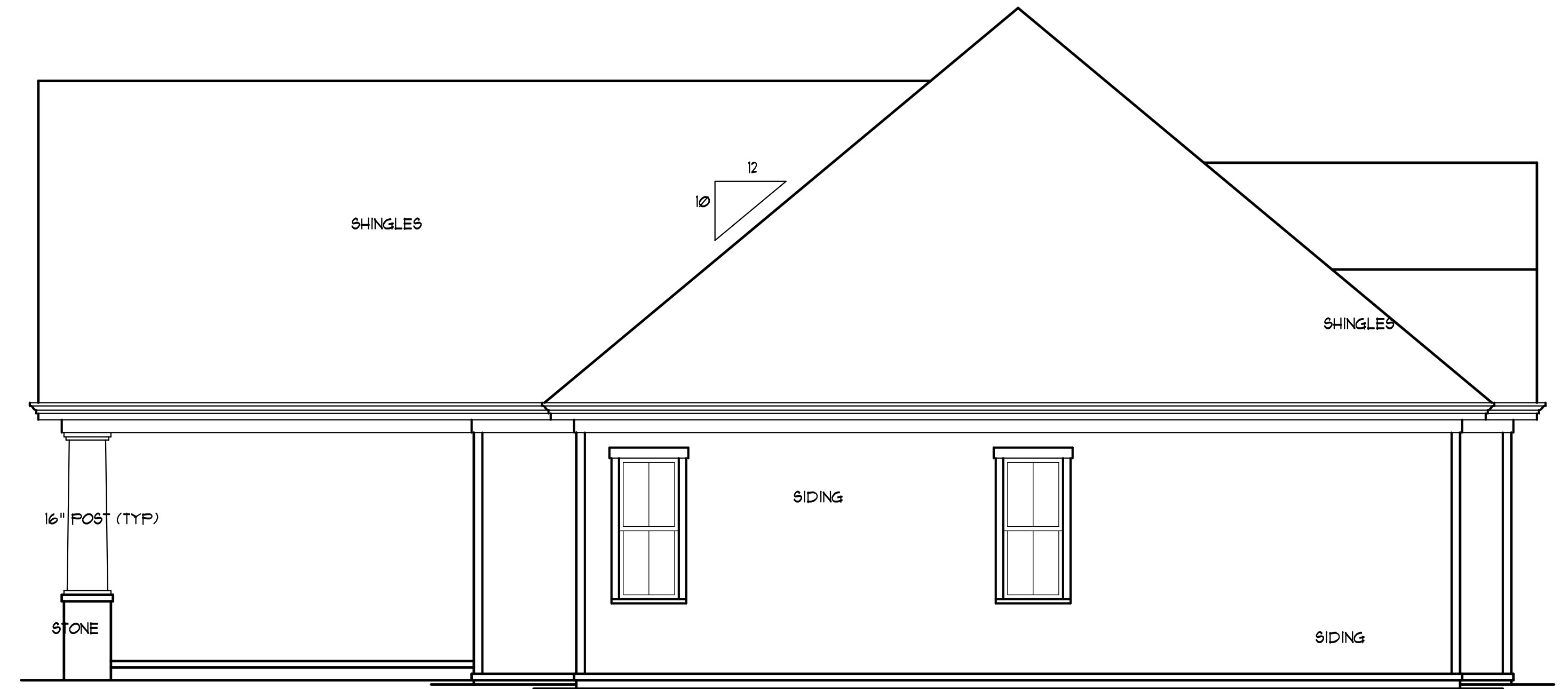
YUNCANNON DESIGNS
CUSTOM HOME PLANS
FLOUAT-VARINA, NC • (919) 421-1314

DRAWN BY : WRY
CHK'D BY : WRY
DATE : 12/06/21
REVISIONS :

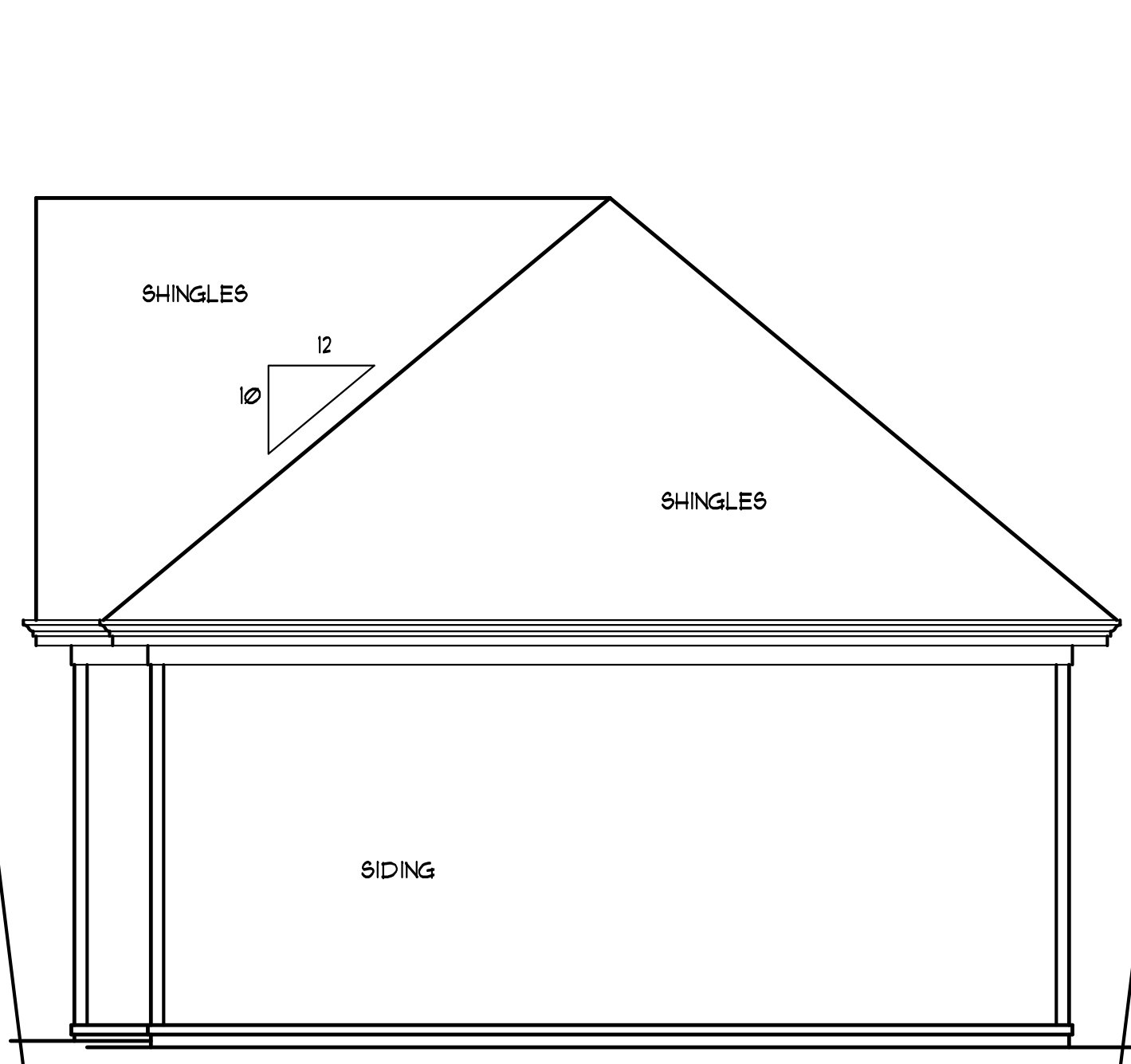
SHEET
1 = 1



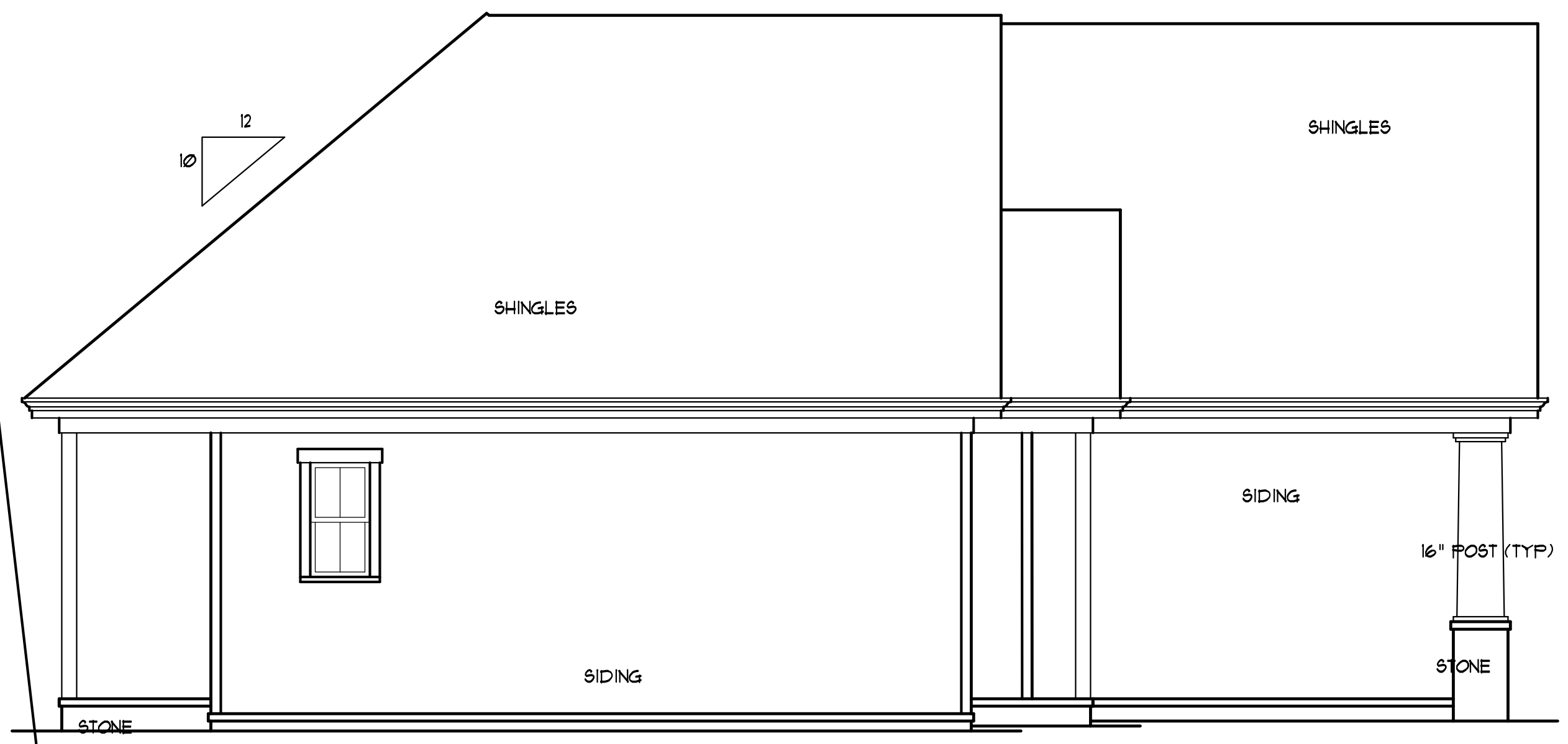
EXTERIOR WALL SECTION
 SCALE: NTS



LEFT SIDE ELEV
 SCALE: 1/4" = 1'-0"



GARAGE SIDE ELEV
 SCALE: 1/4" = 1'-0"



RIGHT SIDE ELEV
 SCALE: 1/4" = 1'-0"

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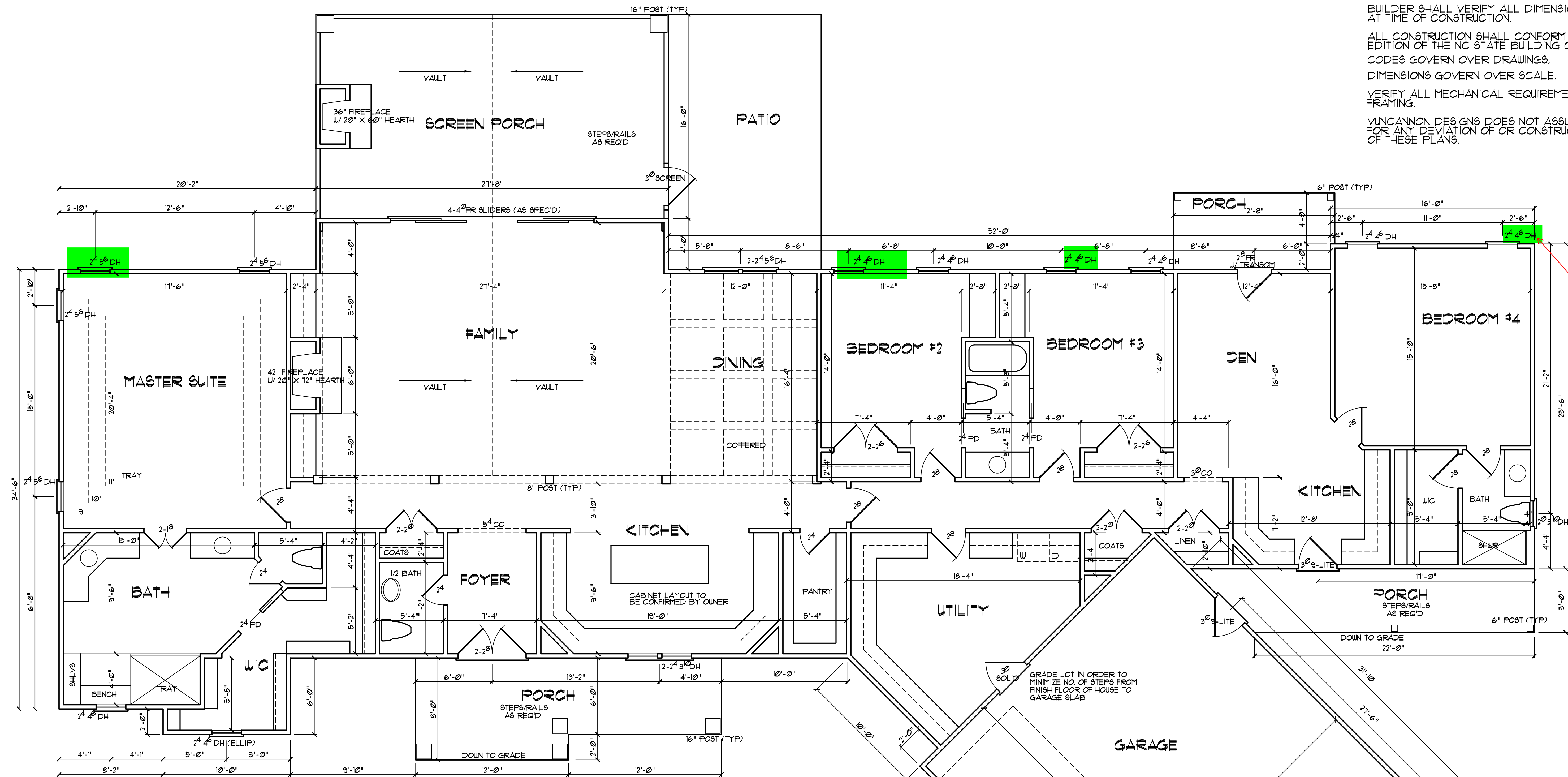
Jerry/Jodie Brock
 Neill's Creek Road
 Angier, NC

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SHEET
A-2

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These windows will not meet egress requirements

VERIFY ALL WINDOW SIZES MEET MINIMUM STANDARDS FOR LIGHT, VENTILATION AND EGRESS.

FLOOR PLAN
 SCALE: 1/4" = 1'-0"
 FIRST FLOOR HEATED AREA: 3665 SQ. FT.
 GARAGE AREA: 923 SQ. FT.
 FRONT PORCH AREA: 168 SQ. FT.
 REAR PORCH AREA: 443 SQ. FT.
 SIDE PORCH AREA: 111 SQ. FT.

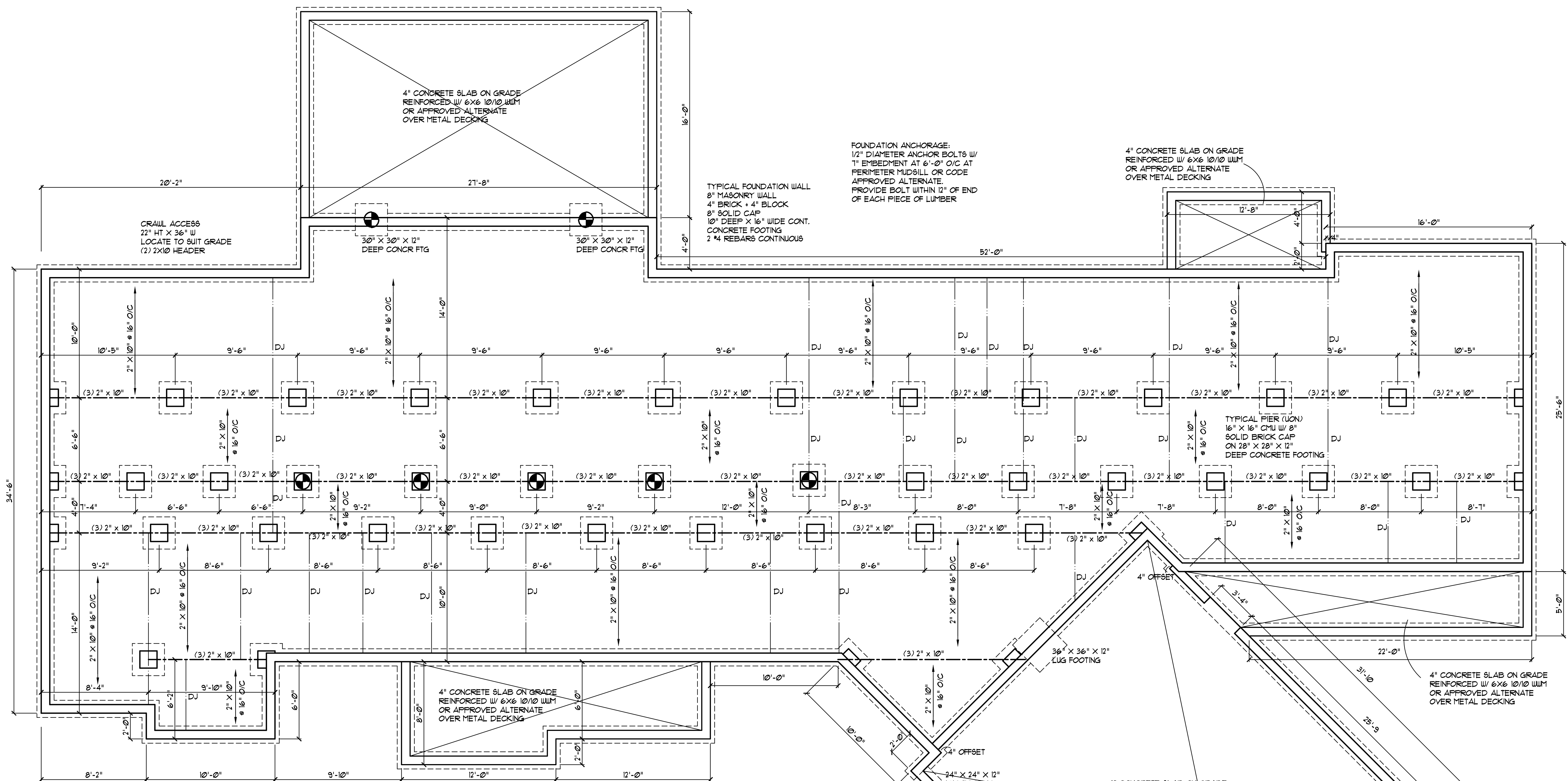
- NOTE**
- 1) 5'-0" CEILING HEIGHT
 - 2) FRAME WINDOWS AT 1'-8" ABOVE FINISHED FLOOR
 - 3) DOUBLE ALL JOISTS PARALLEL TO WALLS ABOVE
 - 4) USE THERMOPANE GLASS AT TUB & SHOWER AREAS & WITH BEVEL LESS THAN 9" ABOVE FINISHED FLOOR WITH MORE THAN 9 SQ. FT. OF GLASS AND UP TO WITHIN 7' OF SLUNG DOORS.
 - 5) USE 2X10S AS HEADERS (MIN. 1/2" ON STRUCTURAL SHEETS)
 - 6) ATTIC ACCESS 22"X20" MINIMUM
 - 7) SILLS AND PLATES TO BE 8" OR MORE ABOVE GRADE OR BE TREATED MATERIAL.
 - 8) SIDING TO BE MINIMUM 6" ABOVE GRADE.
 - 9) DOOR FROM GARAGE TO HOUSE TO BE 20 MINUTE FIRE RATED. ADD 1/2" SHEETROCK ON ALL WALLS & CEILING COMMON TO GARAGE & HEATED SPACE.
 - 10) MINIMUM 6" SIDE CLEARANCE FROM CENTER LINE OF WATER CLOSET.
 - 11) PROVIDE TREATED BAND AT CONCRETE SLAB.

Jerry/Jodie Brock
 Neill's Creek Road
 Angier, NC

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DRAWN BY: WRY
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 DATE: 12/06/21
 REVISIONS:

SHEET
A-3



GENERAL FOUNDATION NOTES:

1. THIS PLAN DESIGNED IN ACCORDANCE WITH NC RESIDENTIAL CODE, 2018 EDITION.
2. EXTERIOR WALL FOOTING WHERE NOTED TO BE 16" X 10" 3000 PSI STRUCTURAL CONCRETE UNLESS OTHERWISE NOTED. CONCRETE TO BE PREPARED AND PLACED IN ACCORDANCE WITH ACI 318. FOR FOUNDATION WALL HEIGHT, THICKNESS AND BACKFILL REQUIREMENTS, REFER TO STATE AND LOCAL BUILDING CODES. NOTE: ASSUMED SOIL BEARING CAPACITY=2000 PSF. CONTRACTOR MUST VERIFY CONDITIONS AND CONTACT SOIL ENGINEER IF MARGINAL OR UNSTABLE SOILS ARE ENCOUNTERED.
3. FOOTINGS TO BEAR ON UNDISTURBED EARTH A MIN. OF 12" BELOW ADJACENT FINISH GRADE OR AS OTHERWISE DIRECTED BY LOCAL INSPECTOR.
4. FOUNDATION DRAINAGE SHALL BE IN ACCORDANCE WITH SECTION R405 OF THE CODE "FOUNDATION DRAINAGE".

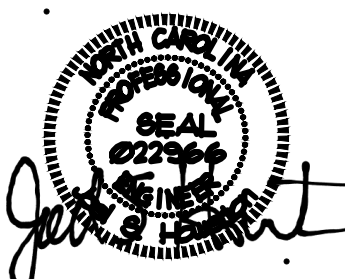
5. THE FOUNDATION SHALL BE TREATED IN ACCORDANCE W/SECTION R406 OF THE CODE "FOUNDATION WATERPROOFING AND DAMPPROOFING".
6. THIS FOUNDATION DESIGN IS VALID FOR 115 MPH WIND ZONES ONLY.
7. FOUNDATION WALLS SHALL BE 8" BLOCK UNLESS NOTED OTHERWISE.
8. (2) #4 BARS IN FOOTINGS RUN CONTINUOUSLY.

INDICATES POINT LOAD ABOVE

STRUCTURAL EVALUATION BY:

HOWERTON SERVICES, PLLC
3513 CATHEDRAL BELL ROAD RALEIGH, NC 27614
LICENSE P-1716

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- DO NOT SCALE THESE DRAWINGS - ENGINEERING APPROVAL EXPIRES 01/01/2023



12 06 2021

FOUNDATION ANCHORAGE:
1/2" DIAMETER ANCHOR BOLTS W/
1" EMBEDMENT AT 6'-0" O/C AT
PERIMETER MUDSILL OR CODE
APPROVED ALTERNATE.
PROVIDE BOLT WITHIN 12" OF END
OF EACH PIECE OF LUMBER

TYPICAL FOUNDATION WALL
8" MASONRY WALL
4" BRICK + 4" BLOCK
8" SOLID CAP
10" DEEP X 16" WIDE CONT.
CONCRETE FOOTING
2 #4 REBARS CONTINUOUS

4" CONCRETE SLAB ON GRADE
REINFORCED W/ 6x6 10/10 WUM
OR APPROVED ALTERNATE
OVER METAL DECKING

TYPICAL PIER (CON)
16" X 16" CMU W/ 8"
SOLID BRICK CAP
ON 28" X 28" X 12"
DEEP CONCRETE FOOTING

4" CONCRETE SLAB ON GRADE
REINFORCED W/ 6x6 10/10 WUM
OR APPROVED ALTERNATE
OVER METAL DECKING

4" CONCRETE SLAB ON GRADE
REINFORCED W/ 6x6 10/10 WUM
OR APPROVED ALTERNATE
OVER METAL DECKING

4" CONCRETE SLAB ON GRADE
REINFORCED W/ 6x6 10/10 WUM
OR APPROVED ALTERNATE OVER
6 MIL POLY-VAPOR BARRIER ON
4" CRUSHED STONE OR GRANULAR FILL
W/ 1/2" PERIMETER EXPANSION JOINT

CRAWL SPACE VENTILATION

PROVIDE AT LEAST 10 SQ. FT. NET FREE VENTILATION AREA FOR EACH 150 SQ. FT. OF CRAWL SPACE

CRAWL SPACE AREA:
4468 / 150 = 29.79 SQ. FT. REQ'D.

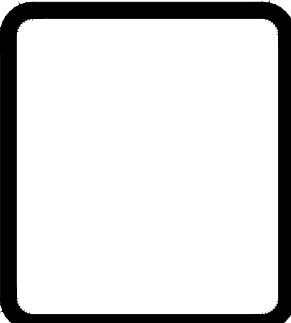
REDUCE REQUIRED AREA TO 10 SQ. FT. NET FREE VENTILATION AREA FOR EACH 150 SQ. FT. OF CRAWL SPACE WITH APPROVED VAPOR BARRIER

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

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

S1 FOUNDATION
01 1/4"=1'-0"

Plan No. 3665-10



STRUCTURAL EVALUATION BY:
HOWERTON SERVICES, PLLC
3513 CATHEDRAL BELL
RD., RALEIGH N.C. 27614

BUILDING DESIGN BY:
VUNCANNON DESIGNS

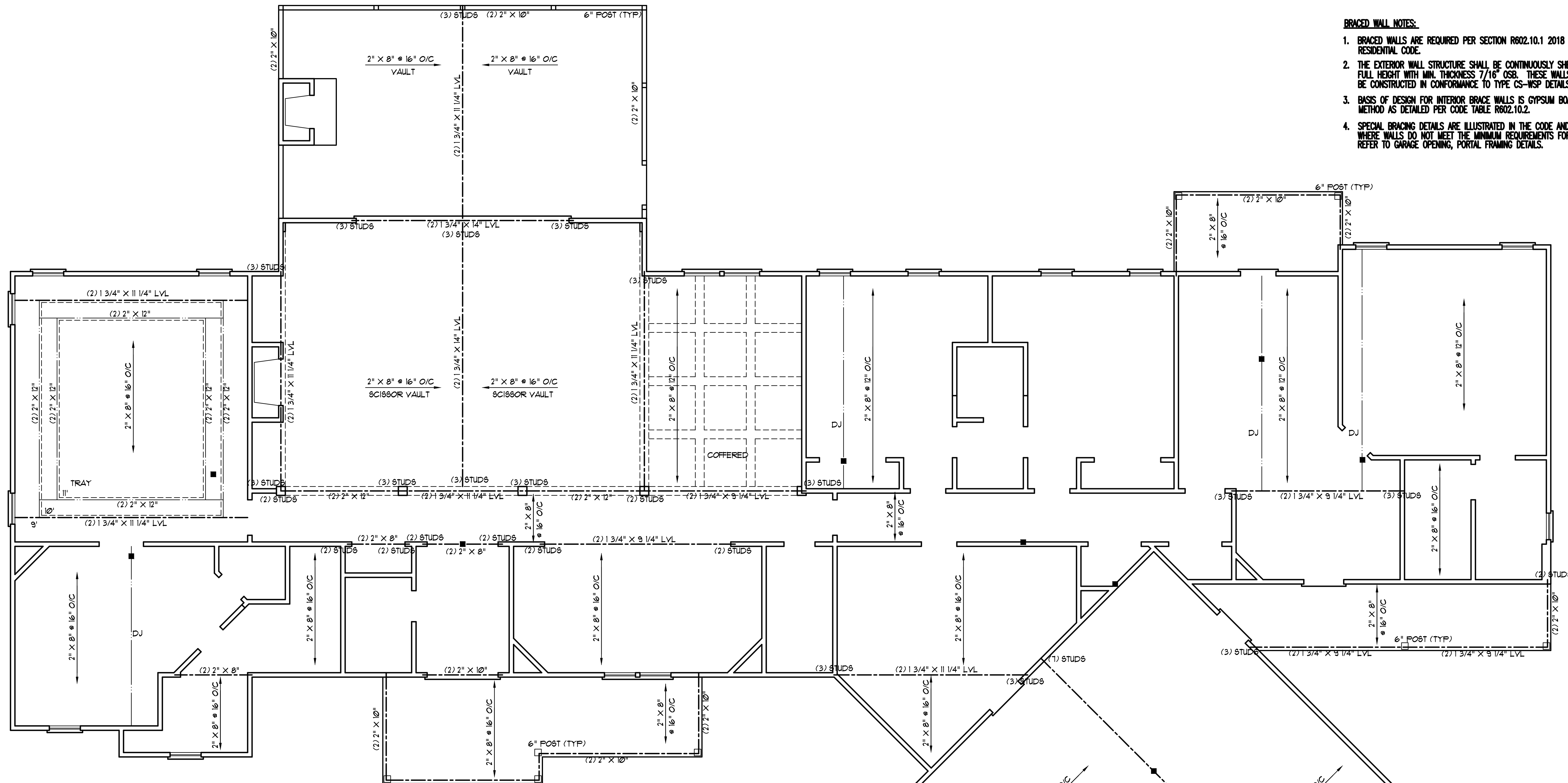
Jerry/Jodie Brock
Neill's Creek Road
Angier, NC

DESCRIPTION:
FOUNDATION PLAN

REVISION:

DATE:
12/07/2021

S1



- BRACED WALL NOTES:**
- BRACED WALLS ARE REQUIRED PER SECTION R602.10.1 2018 NCBC RESIDENTIAL CODE.
 - THE EXTERIOR WALL STRUCTURE SHALL BE CONTINUOUSLY SHEATHED, FULL HEIGHT WITH MIN. THICKNESS 7/16" OSB. THESE WALLS SHALL BE CONSTRUCTED IN CONFORMANCE TO TYPE CS-WSP DETAILS.
 - BASIS OF DESIGN FOR INTERIOR BRACE WALLS IS GYPSUM BOARD METHOD AS DETAILED PER CODE TABLE R602.10.2.
 - SPECIAL BRACING DETAILS ARE ILLUSTRATED IN THE CODE AND ALLOWED WHERE WALLS DO NOT MEET THE MINIMUM REQUIREMENTS FOR SUPPORT. REFER TO GARAGE OPENING, PORTAL FRAMING DETAILS.

FIRST FLOOR HEATED AREA: 3665 SQ. FT.
 GARAGE AREA: 923 SQ. FT.
 FRONT PORCH AREA: 168 SQ. FT.
 SCREEN PORCH AREA: 443 SQ. FT.
 SIDE PORCH AREA: 111 SQ. FT.
 REAR PORCH AREA: 15 SQ. FT.

GENERAL FRAMING NOTES:

- THIS PLAN DESIGNED IN ACCORDANCE WITH NC RESIDENTIAL CODE, 2018 EDITION.
- GLAZING AREAS SHOWN ON THESE DESIGN DRAWINGS DO NOT EXCEED 15% OF THE GROSS AREA OF THE EXTERIOR WALLS. THIS STRUCTURE MEETS THE REQUIREMENTS OF N1101.2.1, RESIDENTIAL BUILDING, TYPE A-1.
- WALL CLADDING IS DESIGNED FOR A 24.1 #/SF OR GREATER POSITIVE/NEGATIVE PRESSURE.
- ALL WALLS, FLOORS AND CEILINGS SHALL BE INSULATED IN ACCORDANCE WITH PART IV, ENERGY CONSERVATION, CHAPTER 11, ENERGY EFFICIENCY OF THE CODE FOR ZONE 7 (TABLE N1101.2).
- DESIGN CRITERIA

DEAD	LIVE	
PRIMARY FLOOR	10 PSF	40 PSF
SECONDARY FLOOR	10 PSF	40 PSF
SLEEPING AREAS	10 PSF	30 PSF
ATTIC	10 PSF	20 PSF
ROOF	10 PSF	20 PSF
WIND	100 MPH	
- DEFLECTION LIMITS FLOOR - L/360 (LIVE LOAD ONLY) ROOF - L/240
- ALL HEADERS IN LOAD BEARING WALLS SHALL BE DOUBLE 2X10.
- ALL WALLS ARE 2X4 @ 16" O.C. UNLESS OTHERWISE NOTED.
- FLOOR INSULATION = R-19, EXTERIOR = R-15 AND CEILING = R-38.
- PROVIDE DOUBLE FLOOR JOISTS OR TRUSS UNDER WALLS ABOVE.

R602.7.5 SUPPORTS FOR HEADERS:

HEADERS SHALL BE SUPPORTED ON EACH END WITH ONE OR MORE JACK STUDS OR WITH APPROVED FRAMING ANCHORS IN ACCORDANCE WITH TABLE R602.7(1) OR R602.7(2). THE FULL-HEIGHT STUD ADJACENT TO EACH END OF THE HEADER SHALL BE END NAILED TO EACH END OF THE HEADER WITH FOUR-16D NAILS (3.5 INCHES X 0.135 INCHES). THE MINIMUM NUMBER OF FULL-HEIGHT STUDS AT EACH END OF A HEADER SHALL BE IN ACCORDANCE WITH TABLE R602.7.5.

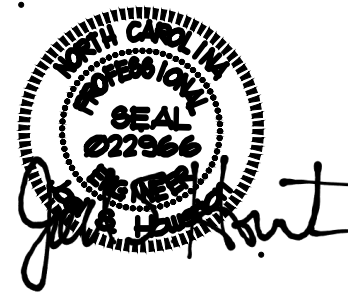
TABLE R602.7.5
 MINIMUM NUMBER OF FULL-HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS

HEADER SPAN	MAXIMUM STUD SPACING (INCHES) PER TABLE R602.3(5)	
LESS THAN/EQUAL TO 3'	16	24
4'	2	1
8'	3	2
12'	5	3
16'	6	4

■ INDICATES (3) 2x4 STUD COLUMN ABOVE

STRUCTURAL EVALUATION BY:
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12 06 2021

S2 FIRST FLOOR FRAMING
 01 1/4"=1'-0"

Plan No. 3665-10

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 RD., RALEIGH N.C. 27614

BUILDING DESIGN BY:
 VUNCANNON DESIGNS

Jerry/Jodie Brock
 Neill's Creek Road
 Angier, NC

DESCRIPTION:
 MAIN LEVEL FLOOR FRAMING

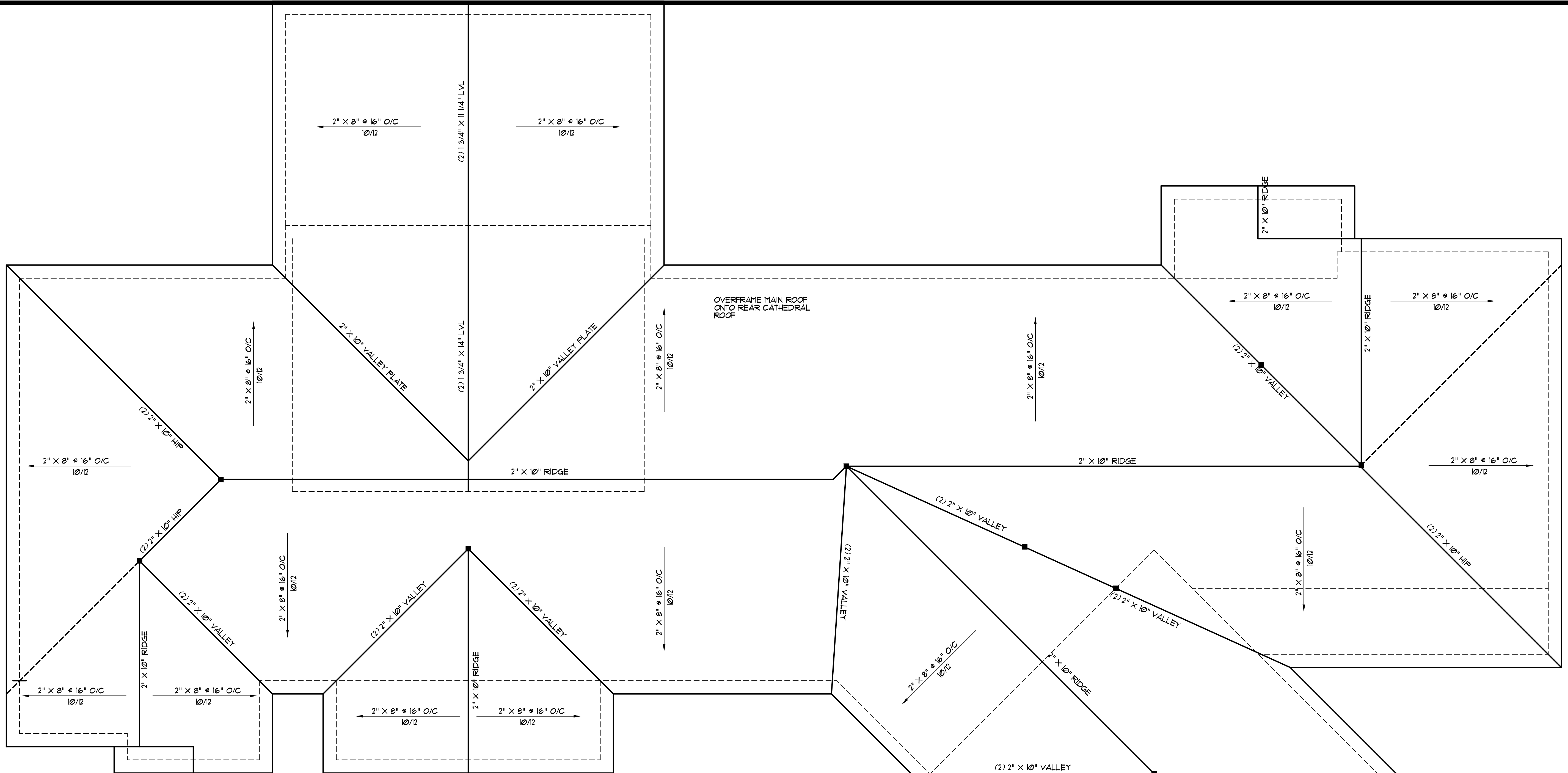
REVISION:

DATE:
 12/07/2021

DATE:
 12/07/2021

NO.:

S2



GENERAL ROOF NOTES:

- THIS PLAN DESIGNED IN ACCORDANCE WITH NC RESIDENTIAL CODE, 2018 EDITION.
- ROOF CLADDING DESIGN VALUES (POSITIVE/NEGATIVE) SHALL BE AS FOLLOWS:
 45.5 #/SF FOR ROOF PITCHES FROM 0 /12 TO 2.25 /12
 34.5 #/SF FOR ROOF PITCHES FROM 2.25 /12 TO 7 /12
 21 #/SF FOR ROOF PITCHES FROM 7 /12 TO 12 /12
- ALL ROOFING ELEMENTS SHALL MEET THE REQUIREMENTS OF CHAPTER 8 OF THE CODE.
- ALL LUMBER SHALL BE #2 SPF OR BETTER. RAFTERS MAY BE FINGER JOINTED PER NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION, AND MUST HAVE THE STRUCTURAL CERTIFICATION STAMPED ON THE MEMBER.
- RAFTER SIZES, SPANS AND SPACING SHALL NOT EXCEED THE FOLLOWING:

SIZE	2X6	2X8	2X10
SPACING 12" O.C.	14'-9"	19'-6"	24'-10"
SPACING 16" O.C.	13'-5"	17'-9"	22'-3"
- ALL RAFTERS TO BE 2X8 @ 16" O.C. #2 SPF UNLESS NOTED OTHERWISE.
- 2-2X10 HIPs MAY BE SPLICED WITH A MIN. 6'-0" OVERLAP.
- PROVIDE DOUBLE RAFTER EACH SIDE OF DORMERS WITH DOUBLE HEADER.
- ATTACH VAULTED RAFTERS WITH HURRICANE CLIP SIMPSON "H-5" OR EQUIVALENT. PROVIDE DOUBLE OPPOSING RAFTERS WHERE NOTED.
- 2X8 RAFTERS @ CATHEDRAL OR VAULTED CEILINGS TO BE FURRED DOWN 2" OR USE 2X10 RAFTERS FOR INSULATION PER CODE.

- PROVIDE 2X4 COLLAR TIES EVERY SECOND RAFTER (TYPICAL)
- PROVIDE 2X4 RAFTER TIES @ 32" O.C. (TYPICAL)
- FRAME RAFTERS ON 2X4 PLATE ON TOP OF CEILING JOISTS UNLESS NOTED OTHERWISE.
- SHINGLES ASSUMED TO BE 240 LB. FIBERGLASS, OR EQUAL. MINIMUM ROOF PITCH TO BE AS INDICATED ON ARCHITECTURAL PLAN SHEETS.
- PROVIDE DOUBLE LAYER OF ROOF FELT WHERE ROOF PITCH IS LESS THAN 4 /12.
- THESE DESIGN DRAWINGS WERE PRODUCED BY HOWERTON SERVICES, PLLC ASSUMES NO LIABILITY FOR THE CORRECTNESS OF ARCHITECTURAL FEATURES, DIMENSIONS OR FIXTURES.
- ALL HIP RIDGES AND VALLEYS SHALL BE DOUBLE 2X10 UNLESS NOTED OTHERWISE.
- CONTRACTOR IS RESPONSIBLE FOR REVIEWING DRAWINGS FOR CONSTRUCTABILITY PRIOR TO BEGINNING CONSTRUCTION.
- VALLEY RAFTERS WITH SPANS LONGER THAN 15' SHALL BE LVLs SUPPORTED AS NOTED. PROVIDE TEMPORARY STIFF KNEE SUPPORT UNTIL ALL SHEATHING AND RAFTER TIES/COLLARS ARE INSTALLED.
- DO NOT SCALE THESE DRAWINGS. IF DISCREPANCIES ARE NOTED, CONTACT THE ENGINEER.

ATTIC SPACE VENTILATION

MAIN ROOF
 ATTIC AREA = 5371 SQ. FT.
 REQUIRED AREA = 1/300 = 11,910 SQ. FT.

NOTE:
 ALL EAVES TO HAVE 2" CONTINUOUS SOFFIT VENT
 ALLOW 1" AIR SPACE ABOVE INSULATION FOR AIR FLOW

■ INDICATES (3) 2X4 STIFF KNEE ON BEAM BELOW

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S3 ROOF PLAN
01 1/4"=1'-0"

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BUILDING DESIGN BY:
 VUNCANNON DESIGNS

Jerry/Jodie Brock
 Neill's Creek Road
 Angier, NC

DESCRIPTION:
 ROOF PLAN

REVISION:

DATE:
 12/07/2021

OWNER:
S3