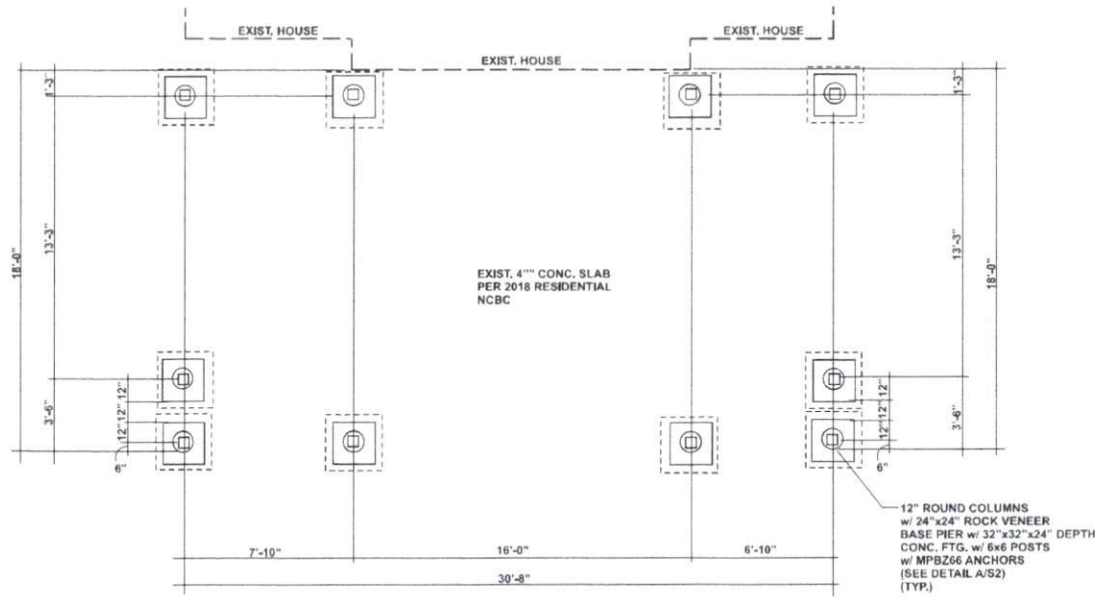


ARCHITECTURAL LAYOUT

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



FOUNDATION

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

STRUCTURAL NOTES:

1. Framing Lumber shall be #2 SPF (minimum of 2) of stacey 1, 100 000 psi, 8, 950. All beams & truss lumber to be #2 SPF (1, 100 000 psi) 1-1/2" max. Studs max #2 or stud grade.
2. Use hangers for all beam to beam connections. Structural fasteners as per R602.2.1. Adequate connections is the sole responsibility of the general contractor and his subs.
3. Structural members fastening to conform to: Table R602.3(1) and (2).
4. Roof Framing Notes:
 - a. Old Moss may be noticed with a max. 6'-0" overlap at corner. No valley valleys.
 - b. Use 2x10 or 11 girt rafters for vaulted areas.
 - c. Attach vaulted rafters with hurricane connectors. Simpson H42.5, H40 or approved equal.
5. All construction shall conform to the latest requirements of the NC State Residential Building Code - 2018 Edition, plus all local codes & regulations or 2015 IRC.
6. Structural Engineer is not responsible for and will not control construction means, methods, techniques, sequences or procedures, or the safety precautions and programs in connection with the construction work.
7. Structural Engineer is not responsible for the contractor's failure to carry out the proposed construction work in accordance with the contract documents.

FRAMING NOTES:


1. Design Loads (R301.5)

	Live Loads (LSP)	Dead (DSP)
Rooms not for Sleeping	40	10
Sleeping Rooms	30	10
Attic w/ Permanent Stairs	40	10
Attic w/o Permanent Stairs	20	10
Attic w/o Storage	10	10
Stairs	40	10
Exterior Balconies	60	10
Decks	60	10
Guardrails & Handrails	200	-
Passenger Vehicle Garages	90	10
Fire Escapes	60	10
Snow	20	-

 Wind Load: (Refer to Table R301.2.4)
 Verify zone before Construction
 Wake County 115 mph
2. Wall Bracing: Braced wall panels shall be in accordance with section R602.10.3 continuous sheathing. Bracing method CS-WSP shall be used in accordance with Table R602.10.1. The required length of bracing for each side of a rectangle circumscribed around the plan or a portion of the plan at each story level shall be in accordance with Table R602.10.3 & figure R602.103.1. Unless noted otherwise, the entire area assumed to be circumscribed within a single rectangle.
3. All framing lumber shall be SPF #2 (F=675 psi) unless otherwise noted (LNU). All treated lumber shall be SYP #2 (F=675 psi). Plywood material may be 21/8" or 5/16" (F=2800 psi) = 425 psi min.
4. All exterior headers to be (2)2x10 spt. u.o.p. w/ rbl. jacks for all openings > 5'-0".
5. All exterior bearing headers to be (2)2x10 spt. u.o.p. w/ rbl. jacks for all openings > 4'-6". Use (2)2x8 w/ rbl. jacks for all openings > 3'-0" u.o.p.
6. All interior non-bearing headers to be min. (2)2x4 flat u.o.p.
7. Finishback to conform with R602.6.

FOUNDATION NOTES:


1. Deck posts max. 4'-0" above grade are to be knee or diagonally braced per Appendix M. Bracing to house will be by rafter with 5/8" galvanized bolts @ 20' o.c. and 1/2" not spaced @ 42" o.c.
2. Columns shall be braced with one of the approved methods as outlined in R602.10.3.
3. Structural members fastening to conform to: Table R602.3(1) and (2).
4. Girders and joists shall bear on center 1/3 of pier and footing, respectively.
5. 2018 NC State Residential Building Code apply to the construction of footings.
6. Typical footing depth to be 18" x 8" deep (LNU).
7. Pressure treated wood shall be installed for exterior use.
8. Hanger Schedule (Simpson hangers) for beam to beam connections (LNU)
 - a. (2)2x10x LUS210-2
 - b. (2)2x10x LUS210-3
 - c. (2)8x4 LUS HUS410
9. Concrete shall have min. 28 day strength of 3000 psi and max. slump of 5 inches unless noted otherwise (LNU). Air entrained per Table 6.2.2.2. All concrete shall be proportioned, mixed, handled, sampled, tested, and placed in accordance with ACE control standards. All samples for pumping shall be taken from the exit pump.
10. Allowable soil bearing pressure assumed to be 2000 psi. The contractor must contact Geotechnical Engineer & the Structural Engineer if unsatisfactory subsurface conditions are encountered. The surface area adjacent to the foundation wall shall be provided adequate drainage and shall be graded so as to drain surface water away from foundation walls.



ENGINEER INFO:
P.E. TEAGUE, P.E., PLLC
 2705 WATERLOO COURT
 RALEIGH, NC 27613
 919-247-2572
 PETEAGUE50@GMAIL.COM
 TEAGUEENGINEERING.COM

BUILDER INFO:

COVERED PATIO
Kirk & Twila Heiner
 38 Chalybeate Road
 Fuquay Varina, NC



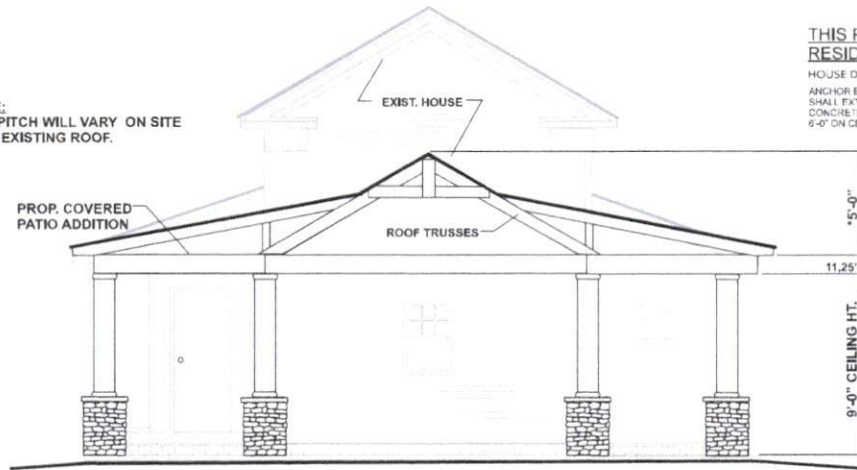
Engineered by:
 Patrick E. Teague, P.E.
 Date: 10/20/22
 North Carolina License # 20239

SHEET NUMBER

S1

PROJECT #PO23421KTH

*NOTE:
THE PITCH WILL VARY ON SITE
PER EXISTING ROOF.

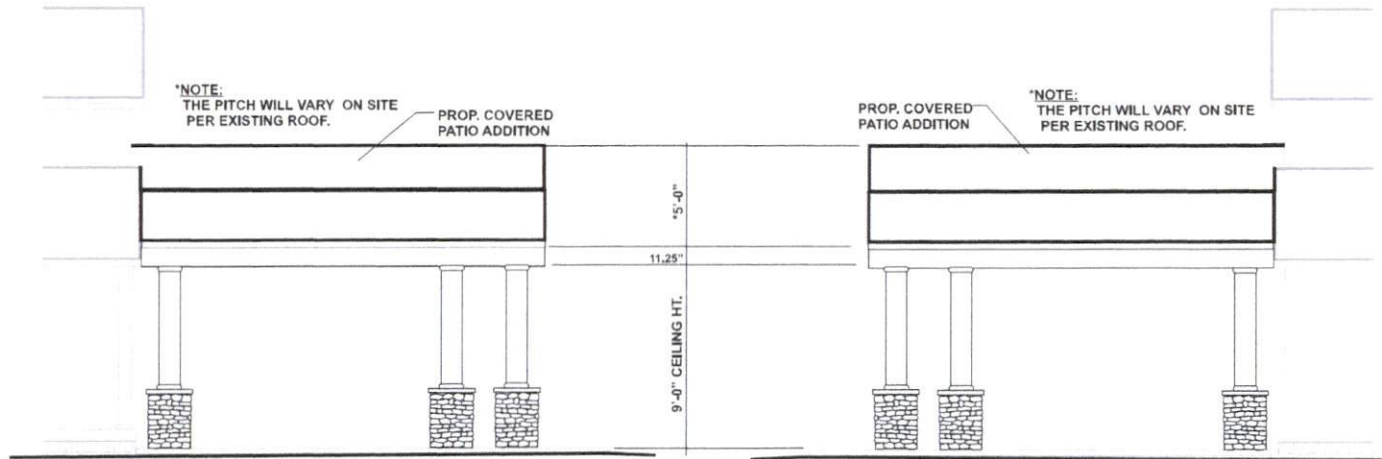


THIS PLAN DESIGNED UNDER NORTH CAROLINA
RESIDENTIAL CODE 2018 EDITION

HOUSE DESIGNED FOR 115 MPH, EXPOSURE B
ANCHOR BOLTS SHALL BE MINIMUM 1/2" DIAMETER &
SHALL EXTEND A MINIMUM OF 7" INTO MASONRY OR
CONCRETE. ANCHOR BOLTS TO BE NO MORE THAN
6'-0" ON CENTER & WITHIN 12" OF ALL PLATE SPICES.

FRONT ELEVATION

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



LEFT ELEVATION

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

RIGHT ELEVATION

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

FRONT ELEVATION



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COVERED PATIO
Kirk & Twila Heiner
38 Chalybeate Road
Fuquay Varina, NC

Engineered by:
Patrick E. Teague, PE
Date: _____
North Carolina License # 20230

SHEET NUMBER

A1

PROJECT #PO23421KTH

