PREFABRICATED WOOD TRUSS NOTES:

1. PREFABRICATED METAL-PLATE-CONNECTED WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE NATIONAL FOREST PRODUCTS ASSOCIATION (NFPA) "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" AND THE TRUSS PLATE INSTITUTE (TPI) "DESIGN SPECIFICATION FOR METAL-PLATE-CONNECTED WOOD TRUSSES.

2. WOOD TRUSS DESIGN LOADS SHALL BE AS FOLLOWS:

   A) TOP CHORD LOADING:
   LIVE LOAD = 20 PSF
   DEAD LOAD = 10 P.S.F. (PLUS ADDITIONAL 5 PSF AT SUPERIMPOSED ROOF FRAMING AREAS)
   WIND LOAD = NET UPLIFT REACTIONS, USE MAXIMUM RESISTING DEAD LOAD = 9 PSF TOTAL.

   B) BOTTOM CHORD LOADING:
   LIVE LOAD = AS REQUIRED BY NORTH CAROLINA STATE BUILDING CODE, LATEST EDITION.
   DEAD LOAD = 10 P.S.F.

   TRUSS DESIGN BASED ON BOTTOM CHORD IS NOT BRACED BY THE CEILING.

3. SUBMIT SHOP DRAWINGS AND CALCULATION PREPARED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA FOR THE DESIGN OF PREFABRICATED METAL-PLATE-CONNECTED WOOD TRUSSES. DESIGN INFORMATION SHALL INCLUDE DESIGN LOADINGS AND REACTIONS APPLIED TO THE SUPPORTING STRUCTURE. PROVIDE TRUSS UPLIFT REACTIONS FOR WIND FORCES SECONDARY BENDING STRESSES IN TRUSS TOP AND BOTTOM CHORDS DUE TO LOADS SHALL BE CONSIDERED IN THE DESIGN. THE CONTRACTOR SHALL PROVIDE TRUSS LAYOUT DRAWINGS SEALED BY A PROFESSIONAL ENGINEER FOR REVIEW AND APPROVAL. INCLUDE ALL TRUSS SPLICE DETAILS AND TRUSS TO TRUSS CONNECTION DETAILS

4. WOOD TRUSS FRAMING MEMBERS SHALL COMPLY WITH PS 20 "AMERICAN SOFTWOOD LUMBER STANDARD" AND THE FOLLOWING REQUIREMENTS:

   A) SPECIES – SOUTHERN PINE GRADED UNDER SPIB RULES.

   B) GRADE – NO. 2 MIN.

   C) MOISTURE CONTENT – SEASONED, WITH 19 PERCENT MAXIMUM MOISTURE CONTENT.

   D) SIZE – TOP AND BOTTOM CHORDS MINIMUM 2X6 WEBS – SIZE AS REQ'D.

5. WHERE MULTIPLE TRUSSES ARE INDICATED, SCAB TRUSS MEMBERS TOGETHER WITH 16d NAILS AT 12" ON CENTER, OR AS INDICATED ON TRUSS SHOP DRAWINGS. PROVIDE SAME NUMBER OF SUPPORT STUDS AS NUMBER OF MULTIPLE TRUSS PLIES.

6. TRUSS MANUFACTURER MAY USE ALTERNATIVE TRUSS WEB CONFIGURATIONS SUBJECT TO APPROVAL OF THE ENGINEER.

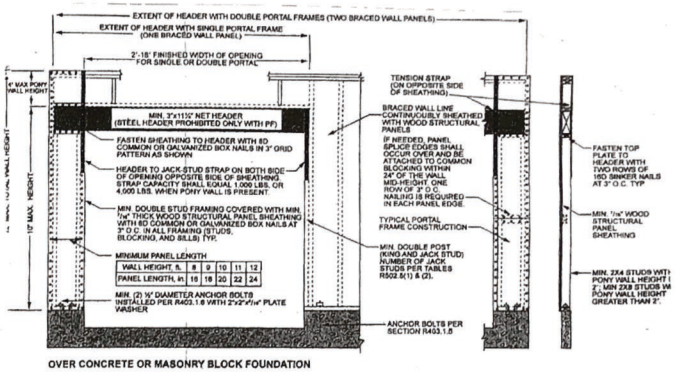
7. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY AND PERMANENT BRACING AS REQUIRED FOR SAFE ERECTION OF THE TRUSSES, OR AS RECOMMENDED BY THE MANUFACTURER. THE GUIDELINES SET FORTH IN THE TRUSS PLATE INSTITUTE PUBLICATION "BRACING WOOD TRUSSES, COMMENTARY AND RECOMMENDATIONS" SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS.

8. METAL CONNECTOR PLATES SHALL COMPLY WITH ASTM A 446, GRADE A WITH COATING AS SPECIFIED.

9. METAL FRAMING ANCHORS SHALL COMPLY WITH ASTM A 446 GRADE A (STRUCTURAL QUALITY). OR MANUFACTURER'S PUBLISHED LOADS FOR REFERENCED ITEMS.

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

HEADER SPAN (feet)	MAXIMUM STUD SPACING (inches) [per Table R602.3(5)]	
	16	24
≤ 3'	1	1
4'	2	1
8'	3	2
12'	5	3
16'	6	4



OVER CONCRETE OR MASONRY BLOCK FOUNDATION

5-4 ROOF FRAMING PLAN
SCALE 1/4"=1'-0"

LEGEND
ROOF LEGEND
- 4"x 6" BRACE FOR HIP & VALLEY TO BEAM OR BEAM OR BEARING WALL
- ROOF RAFTER, 2 x 8 @ 16 OC & 2 STP UNLESS OTHERWISE NOTED
- RIDGE
- DOUBLE RAFTERS
- WOOD STUD WALL
- BRICK VENEER WALL

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RESIDENCE FOR
LARYCE BARNES

ROOF FRAMING PLAN

SCALE: AS NOTED

DATE: 10-29-20

SHEET: 5 - 4