

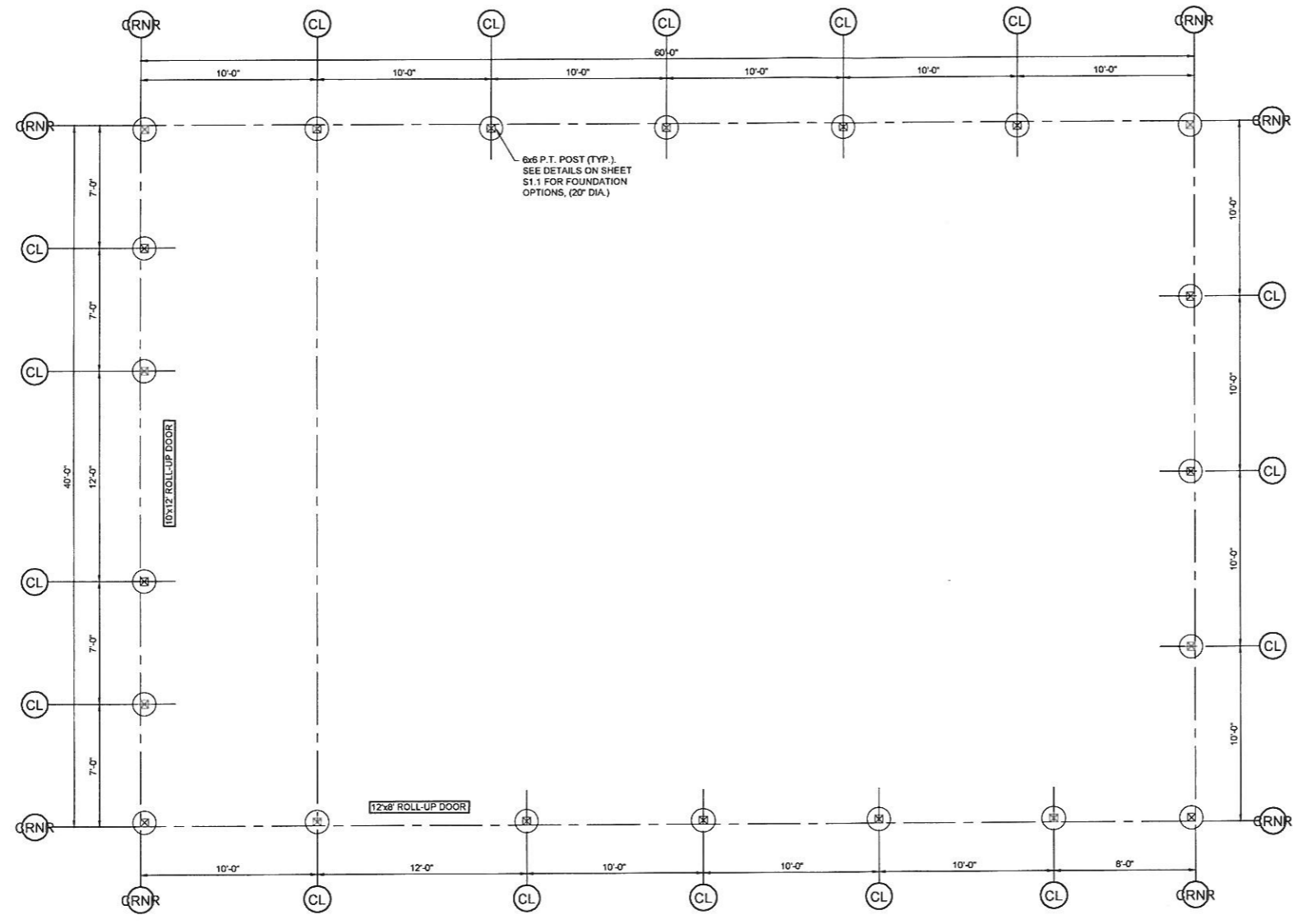


NOTICE TO CONTRACTOR  
All construction must comply with current NC Building Codes and is subject to field inspection and verification.

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

12/30/2021

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

**CONSTRUCTION SUMMARY**  
LOCATION: TBD NORRINGTON RD, LILLINGTON, NC 27546 (HARNETT CO.)

SQUARE FOOTAGE: ENCLOSED BARN: 800 SQ. FT.  
TOTAL AREA UNDER ROOF: 2000 SQ. FT.

**DESIGN CODES**  
2018 NORTH CAROLINA STATE BUILDING CODE - AGRICULTURAL STRUCTURE

**DESIGN LOADS**  
THE STRUCTURAL SYSTEM FOR THIS BUILDING HAS BEEN DESIGNED WITH THE FOLLOWING SUPERIMPOSED LOADINGS:

**DESIGN LIVE LOADS:**  
ROOF: 20 psf

**WIND:**  
BASIC WIND SPEED (3 SEC GUST): 100 mph  
EXPOSURE CATEGORY: B  
IMPORTANCE FACTOR: 1.0

**BRACED WALL METHOD:** POST/FRAME (POLE BARN)

**FOUNDATIONS:**  
FOUNDATIONS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 2,000 psf ON EXISTING SOILS. BEFORE CONSTRUCTION COMMENCES, SOIL BEARING CAPACITY SHALL BE VERIFIED BY A SUBSURFACE INVESTIGATION.

**CONCRETE MATERIAL SPECIFICATIONS:**  
CONCRETE COMPRESSIVE STRENGTH: 3000 psi (28 DAY STRENGTH)  
CEMENT: TYPE III  
AIR ENTRAINMENT: 5% - 7% IF EXPOSED TO WEATHER OR EARTH  
REINFORCING STEEL: ASTM A615, GRADE 60  
WELDED WIRE FABRIC: ASTM A185  
ANCHOR BOLTS: GRADE A36  
CLASS B SPLICE LENGTH: GREATER OF 48 BAR DIAMETERS OR 24 INCHES

**WOOD MATERIAL SPECIFICATIONS:**  
STRUCTURAL WOOD:  
SPRUCE-PINE-FIR (SPF) OR SOUTHERN YELLOW PINE (SYP) NO. 2 OR BETTER  
MODULUS OF ELASTICITY (E): 1,300,000 PSI  
BENDING (F<sub>b</sub>): 850 PSI  
SHEAR (F<sub>v</sub>): 75 PSI  
PRESSURE TREATING: A1C-109  
WOOD FASTENERS: 2003 I B C (TABLE 2304.9.1) U N O.

**LVL BEAMS:**  
MODULUS OF ELASTICITY (E): 1,900,000 PSI  
BENDING (F<sub>b</sub>): 2,500 PSI  
SHEAR (F<sub>v</sub>): 285 PSI

HM Hendrick  
Enterprises, INC.  
913 Bentcreek Ct. Sanford, NC 27330  
(919) 427-0501

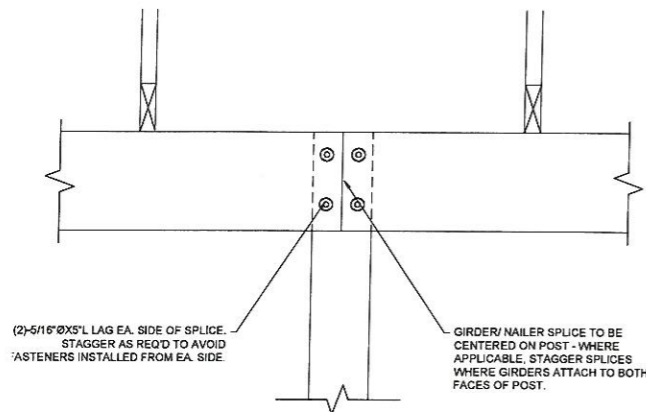


Project Name  
"TBD" NORRINGTON RD.  
AGRICULTURAL USE POLE BARN  
LILLINGTON, NORTH CAROLINA

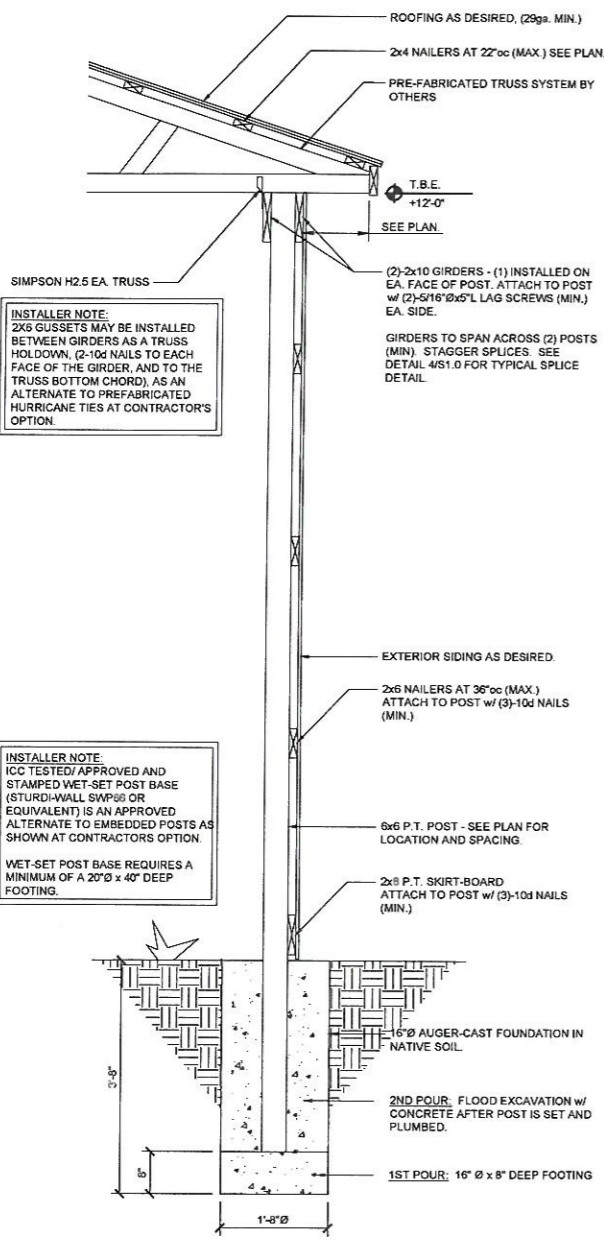
Sheet Title  
FOUNDATION PLAN

DESIGNED BY:	HMH	
DRAWN BY:	HMH	
APPROVED BY:	HMH	
PROJECT #:	-	
DATE:	12/20/21	
No.	Revision	Date

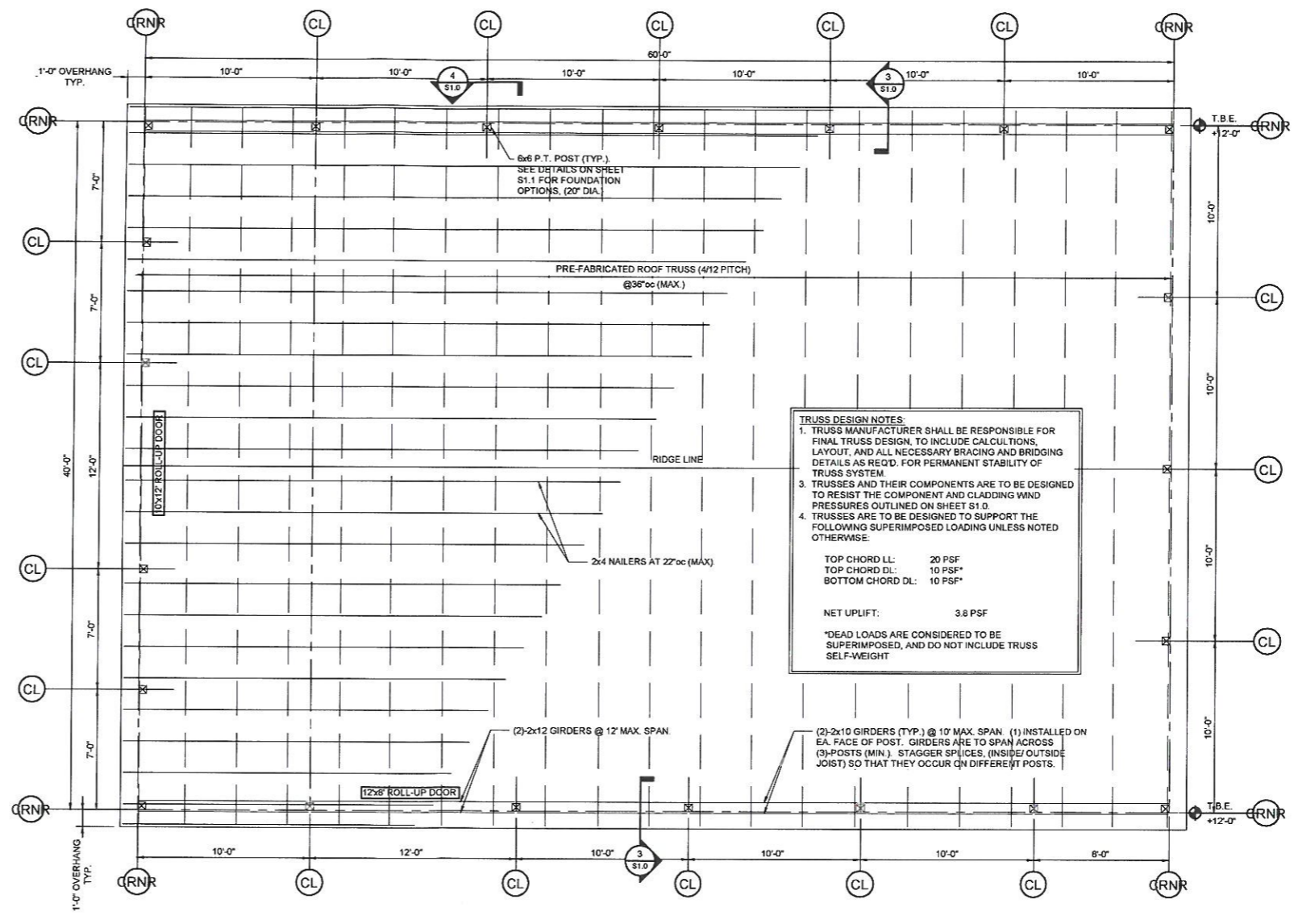
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S1.0



**4 GIRDER SPLICE DETAIL**  
SCALE: 1-1/2" = 1'-0"



**3 SECTION - POLE BARN WALL FRAMING**  
SCALE: 3/4" = 1'-0"



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

**TRUSS DESIGN NOTES:**

1. TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR FINAL TRUSS DESIGN, TO INCLUDE CALCULATIONS, LAYOUT, AND ALL NECESSARY BRACING AND BRIDGING DETAILS AS REQ'D. FOR PERMANENT STABILITY OF TRUSS SYSTEM.
3. TRUSSES AND THEIR COMPONENTS ARE TO BE DESIGNED TO RESIST THE COMPONENT AND CLADDING WIND PRESSURES OUTLINED ON SHEET S1.0.
4. TRUSSES ARE TO BE DESIGNED TO SUPPORT THE FOLLOWING SUPERIMPOSED LOADING UNLESS NOTED OTHERWISE:

TOP CHORD LL: 20 PSF  
 TOP CHORD DL: 10 PSF  
 BOTTOM CHORD DL: 10 PSF

NET UPLIFT: 3.8 PSF

\*DEAD LOADS ARE CONSIDERED TO BE SUPERIMPOSED, AND DO NOT INCLUDE TRUSS SELF-WEIGHT



Project Name  
**"TBD" NORRINGTON RD.  
 AGRICULTURAL USE POLE BARN  
 LILLINGTON, NORTH CAROLINA**

Sheet Title  
**FRAMING PLAN  
 AND DETAILS**

DESIGNED BY:	HMH	
DRAWN BY:	HMH	
APPROVED BY:	HMH	
PROJECT #:	-	
DATE:	12/20/21	
No.	Revision	Date

Sheet  
**S1.1**

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