



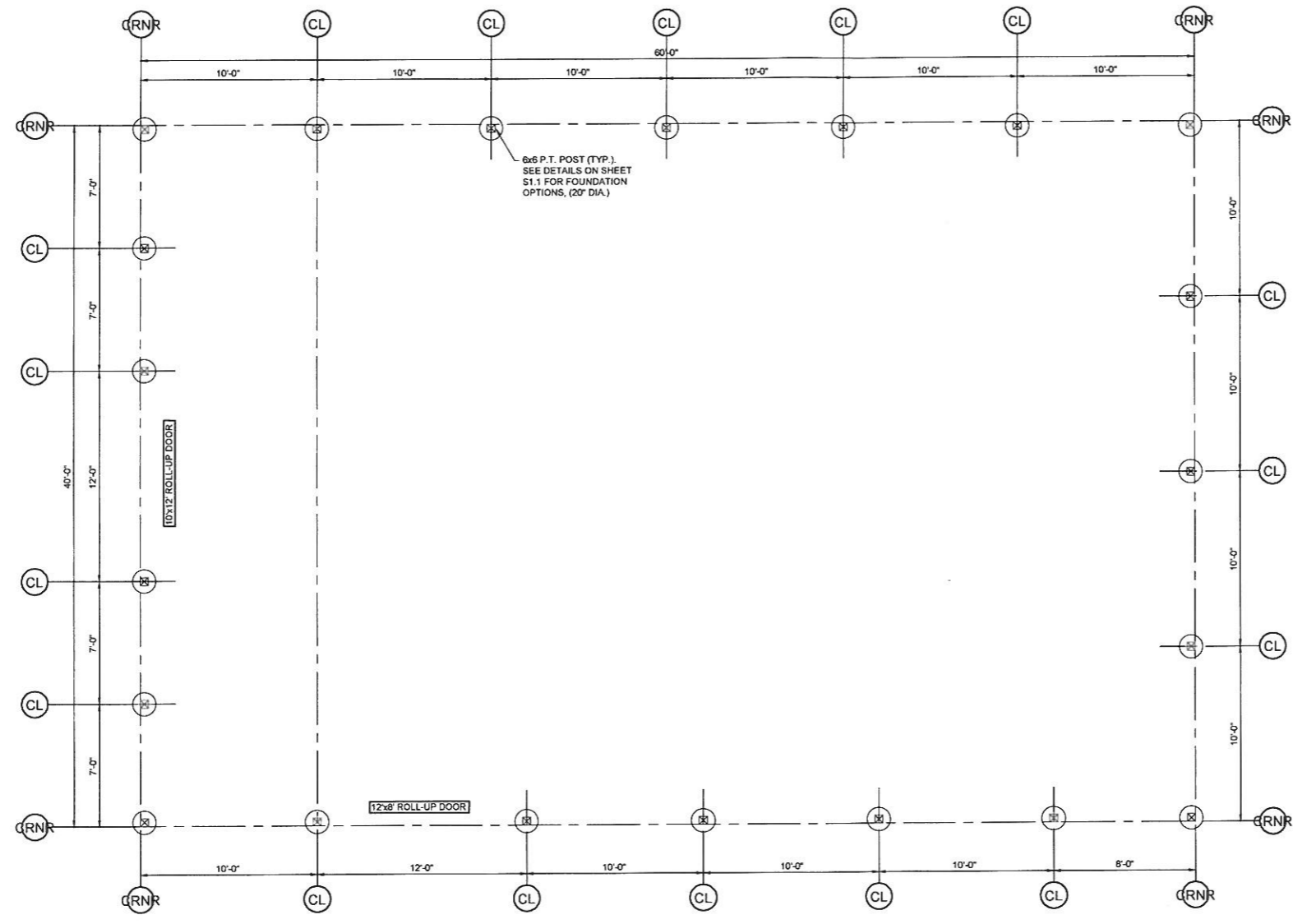
Project Name
**"TBD" NORRINGTON RD.
AGRICULTURAL USE POLE BARN
LILLINGTON, NORTH CAROLINA**

Sheet Title
FOUNDATION PLAN

DESIGNED BY: **HMH**
DRAWN BY: **HMH**
APPROVED BY: **HMH**
PROJECT #:
DATE: **12/20/21**

No.	Revision	Date

Sheet
S1.0



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

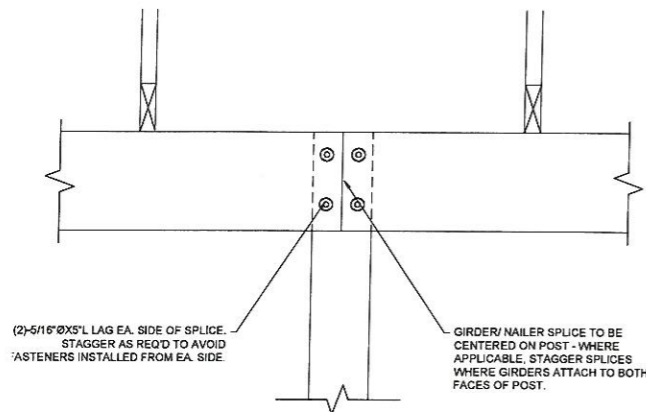
BRACED WALL METHOD: POST/FRAME (POLE BARN)

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.

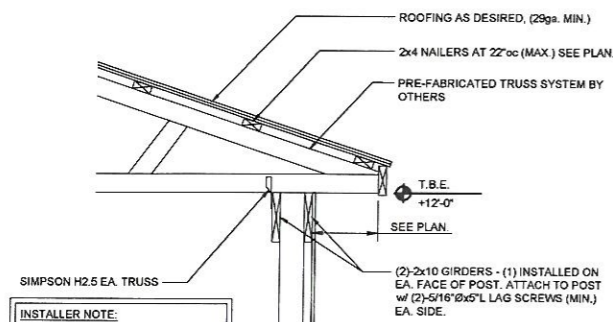
CONCRETE MATERIAL SPECIFICATIONS:
CONCRETE COMPRESSIVE STRENGTH: 3000 psi (28 DAY STRENGTH)
CEMENT: TYPE III
AIR ENTRAINMENT: 5% - 7% IF EXPOSED TO WEATHER OR EARTH
REINFORCING STEEL: ASTM A615, GRADE 60
WELDED WIRE FABRIC: ASTM A185
ANCHOR BOLTS: GRADE A36
CLASS B SPLICE LENGTH: GREATER OF 48 BAR DIAMETERS 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_b): 850 PSI
SHEAR (F_v): 75 PSI
PRESSURE TREATING: AITC-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_b): 2,500 PSI
SHEAR (F_v): 285 PSI

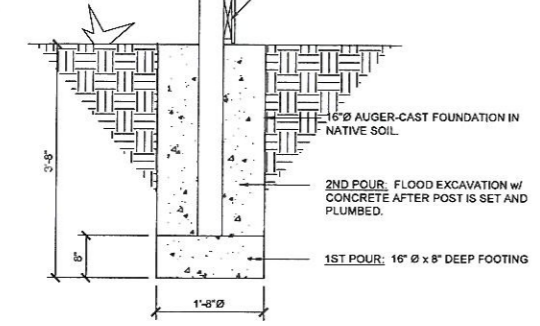


4 GIRDER SPLICE DETAIL
SCALE: 1-1/2" = 1'-0"

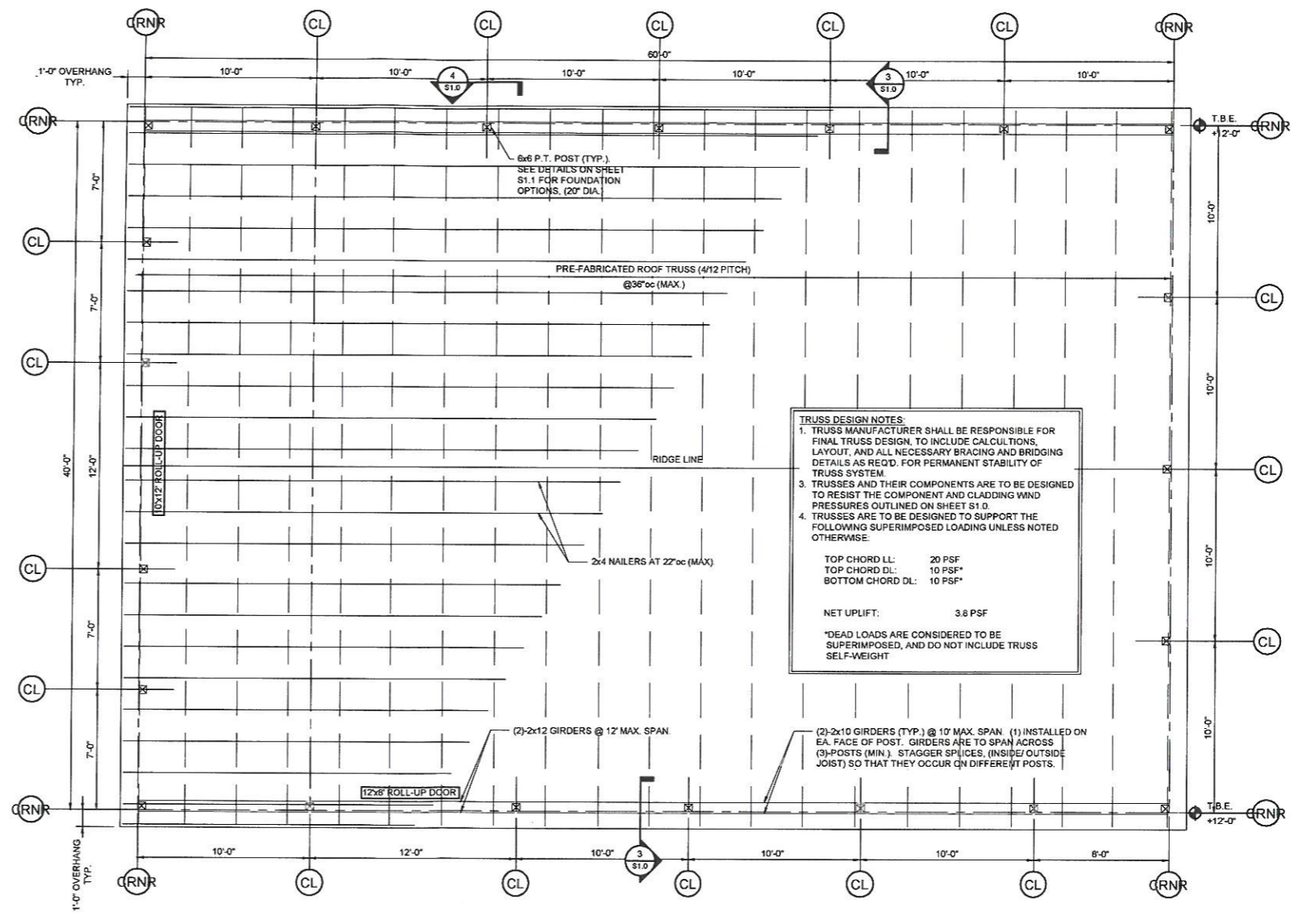


INSTALLER NOTE:
2X5 GUSSETS MAY BE INSTALLED BETWEEN GIRDERS AS A TRUSS HOLD-DOWN. (2-10d NAILS TO EACH FACE OF THE GIRDER, AND TO THE TRUSS BOTTOM CHORD), AS AN ALTERNATE TO PREFABRICATED HURRICANE TIES AT CONTRACTOR'S OPTION.

INSTALLER NOTE:
ICC TESTED/ APPROVED AND STAMPED WET-SET POST BASE (STURDI-WALL SWP90 OR EQUIVALENT) IS AN APPROVED ALTERNATE TO EMBEDDED POSTS AS SHOWN AT CONTRACTOR'S OPTION.
WET-SET POST BASE REQUIRES A MINIMUM OF A 20\"/>



3 SECTION - POLE BARN WALL FRAMING
SCALE: 3/4" = 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

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



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FRAMING PLAN AND DETAILS

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APPROVED BY:	HMH	
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