

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

CONSTRUCTION SUMMARY

LOCATION: 145 BROWN RD, LILLINGTON, NC 27546 (HARNETT CO.)

SQUARE FOOTAGE: ENCLOSED BARN: 1800 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 (ADJUSTED)
 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): 2,600 PSI
 SHEAR (F_v): 285 PSI



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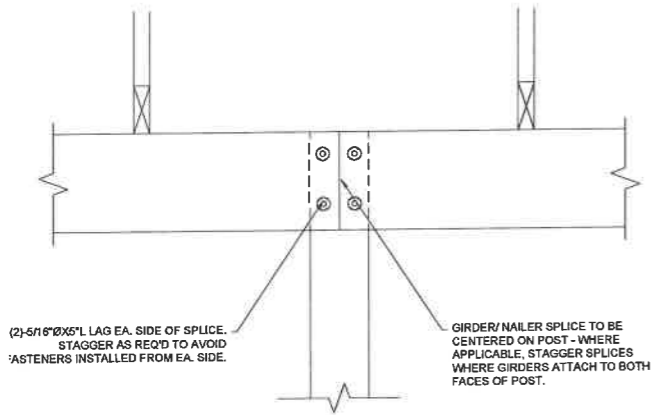
145 BROWN ROAD
 AGRICULTURAL USE POLE BARN
 LILLINGTON, NORTH CAROLINA

FOUNDATION PLAN

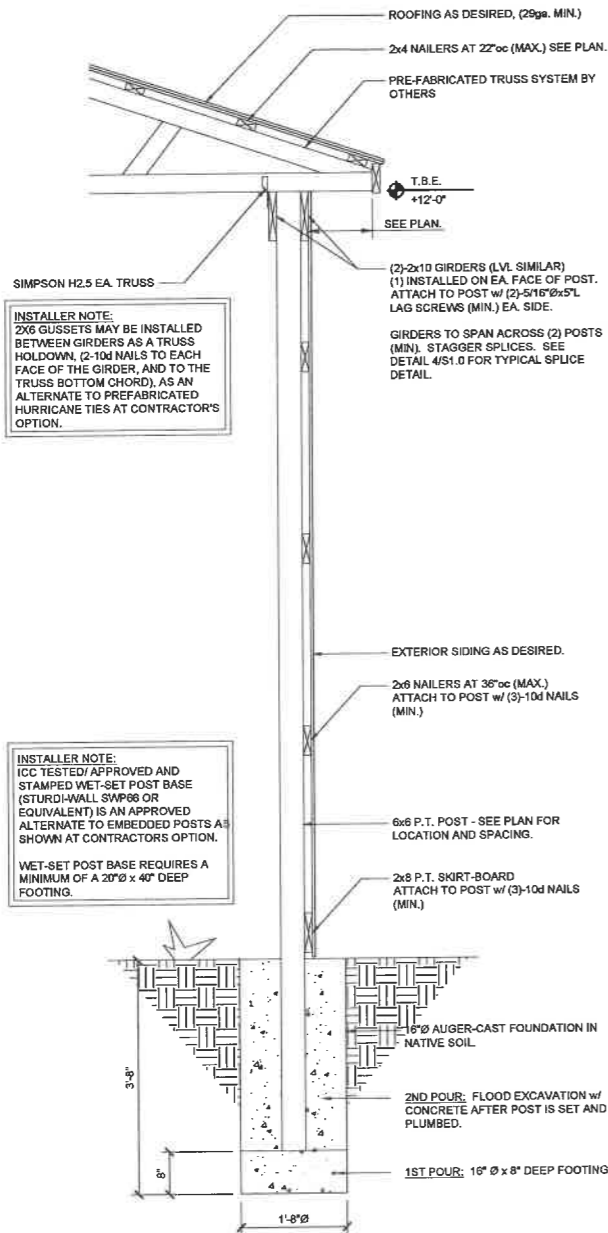
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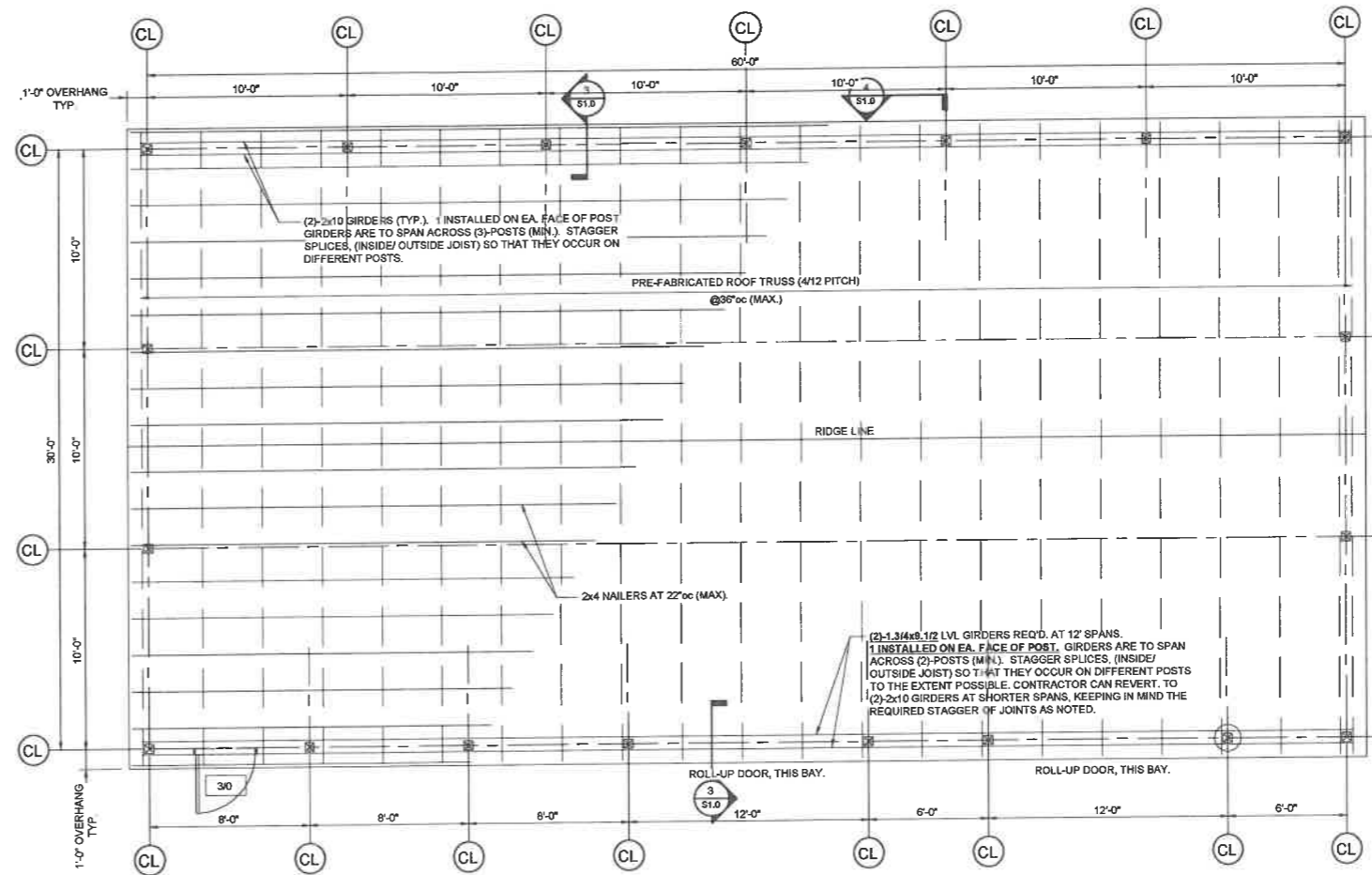
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4 GIRDER SPLICE DETAIL
SCALE: 1-1/2" = 1'-0"



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



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



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