





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

CONSTRUCTION SUMMARY  
 LOCATION: 5951 COKESBURY RD, FUQUAY-VARINA, NC 27356 (HANNETT CO.)  
 SQUARE FOOTAGE: ENCLOSED BARN: 3000 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: 20 psf  
 WIND: 100 mph  
 BASIC WIND SPEED (3 SEC DUCT): 100 mph  
 IMPORTANCE FACTOR: 1.0  
 REDUCED WALL METHOD: FOOTING/RAIL POLE BARN  
 FOUNDATIONS:  
 FOUNDATIONS ARE DESIGNED FOR ALL ALLOWABLE EARTH SECTIONS. PRESUMING OF 2000 P.S.F. ON EXISTING SOILS. BEFORE CONSTRUCTION SUBSURFACE INVESTIGATION.  
 CONCRETE MATERIAL SPECIFICATIONS:  
 CEMENT: PORTLAND CEMENT TYPE I  
 AGGREGATE: 3/4" MAX. SIZE, 28 DAY STRENGTH 4000 P.S.F.  
 AIR ENTRAINMENT: 5% (IF EXPOSED TO WEATHER OR EARTH)  
 WELDED WIRE FABRIC: ASTM A185  
 CLASS 8 SPICE LENGTH: GREATER OF 48 BAR DIAMETERS OR 24 INCHES  
 WOOD MATERIAL SPECIFICATIONS:  
 STRUCTURAL LUMBER:  
 SPECIES: SYPHON OR SOUTHERN YELLOW PINE (SPY) NO. 2 OR BETTER  
 MOISTURE CONTENT: 15% MAX  
 MODULUS OF ELASTICITY (E): 1,800,000 P.S.F.  
 DESIGN WIND SPEED: 100 MPH  
 PRESSURE COEFFICIENTS: PER ASCE 7-16  
 WIND FASTENING: 2003 IBC TABLE 2003.5.1 UN.C.  
 MODULUS OF ELASTICITY (E): 1,800,000 P.S.F.  
 SPECIFIC GRAVITY: 25 PCF



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5951 COKESBURY RD  
 AGRICULTURAL USE POLE BARN  
 FUQUAY-VARINA, NORTH CAROLINA

FOUNDATION PLAN

DESIGNED BY:	HMH
DRAWN BY:	HMH
APPROVED BY:	HMH
PROJECT #:	
DATE:	08/16/21
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