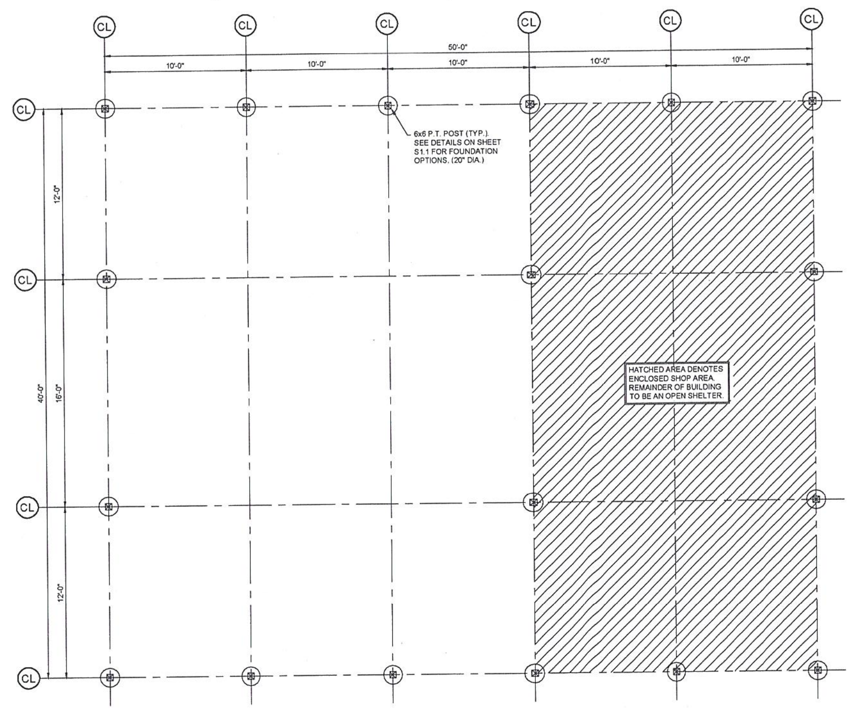
40 x 50

This Is A Updated Plan.

Not The Same Size, But Built ~~the~~ Same Way.

Shop Shelter Combo



1 FOUNDATION PLAN

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

CONSTRUCTION SUMMARY

LOCATION: 149 ON ROCK LN, 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 I/II
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.
MODULAS OF ELASTICITY (E) 1,300,000 PSI
BENDING (Fb) 850 PSI
SHEAR (Fv) 75 PSI
PRESSURE TREATING: AITC-109
WOOD FASTENERS: 2003 I.B.C. (TABLE 2304.9.1) U.N.O.
LVL BEAMS:
MODULAS OF ELASTICITY (E) 1,900,000 PSI
BENDING (Fb) 2,600 PSI
SHEAR (Fv) 285 PSI

HMHendrick Enterprises, INC.

913 Bentcreek Ct. Sanford, NC 27330
(919) 427-0501

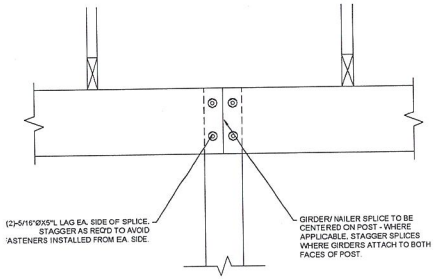
NORTH CAROLINA PROFESSIONAL SEAL 035855 ENGINEER M. HENDRICK

Digitally signed by Hugh M. Hendrick
Date: 2020.12.06
10:57:40 -05'00'

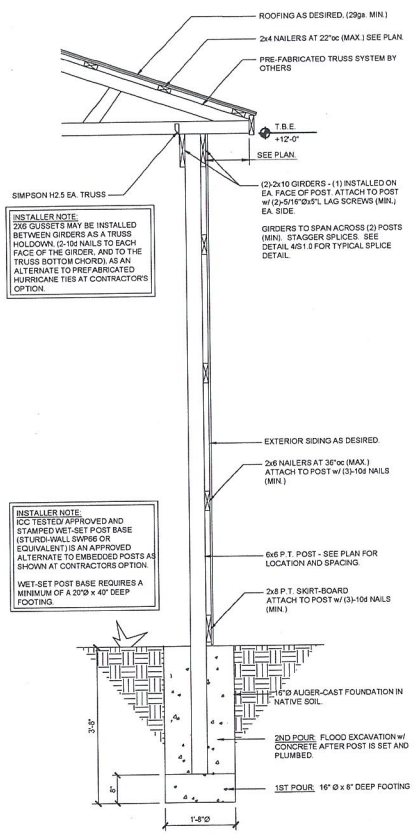
Project Name	149 ON ROCK LN. AGRICULTURAL USE POLE BARN LILLINGTON, NORTH CAROLINA
Sheet Title	FOUNDATION PLAN
DESIGNED BY:	HMH
DRAWN BY:	HMH
APPROVED BY:	HMH
PROJECT #:	-
DATE:	12/06/20

No.	Revision	Date

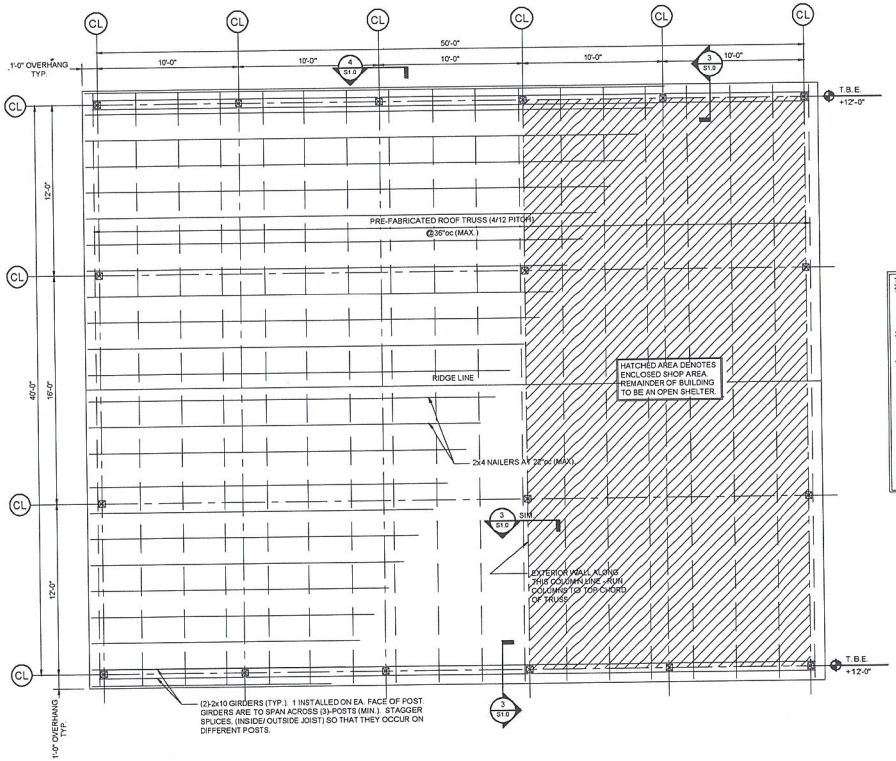
Sheet S1.0



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



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 CALCULTIONS, 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

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

NORTH CAROLINA PROFESSIONAL SEAL 035665 ENGINEER HUNTER M. HENDRICK
Hunter M. Hendrick signed by Hunter M. Hendrick Date: 2023.12.06 10:58:11 -05'00'

Project Name
149 ON ROCK LN.
AGRICULTURAL USE POLE BARN
LILLINGTON, NORTH CAROLINA

Sheet Title
FRAMING PLAN AND DETAILS

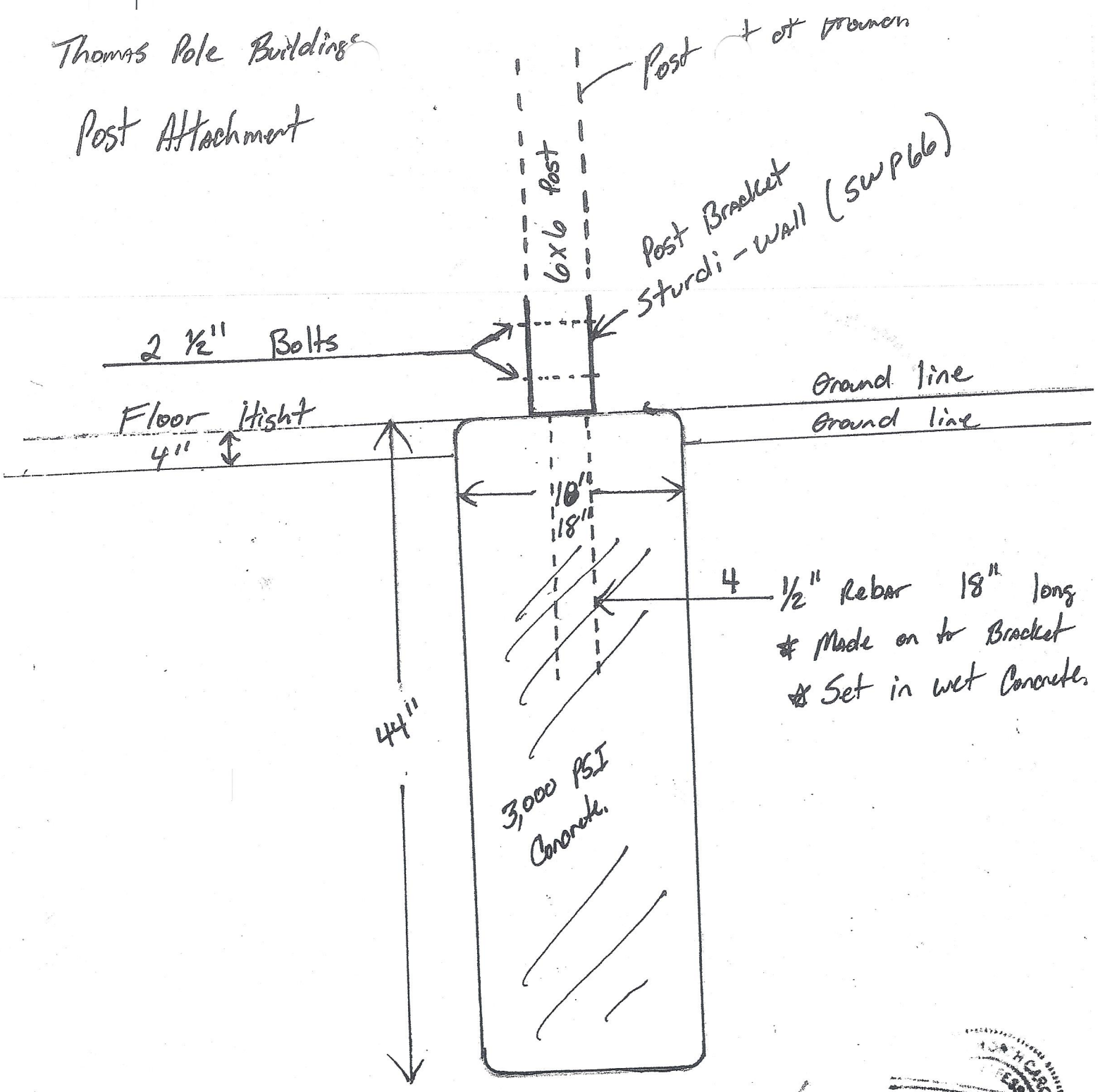
DESIGNED BY:	HMH
DRAWN BY:	HMH
APPROVED BY:	HMH
PROJECT #:	-
DATE:	12/06/23

No.	Revision	Date

Sheet
S1.1

Thomas Pole Buildings

Post Attachment



Greg Hobbs

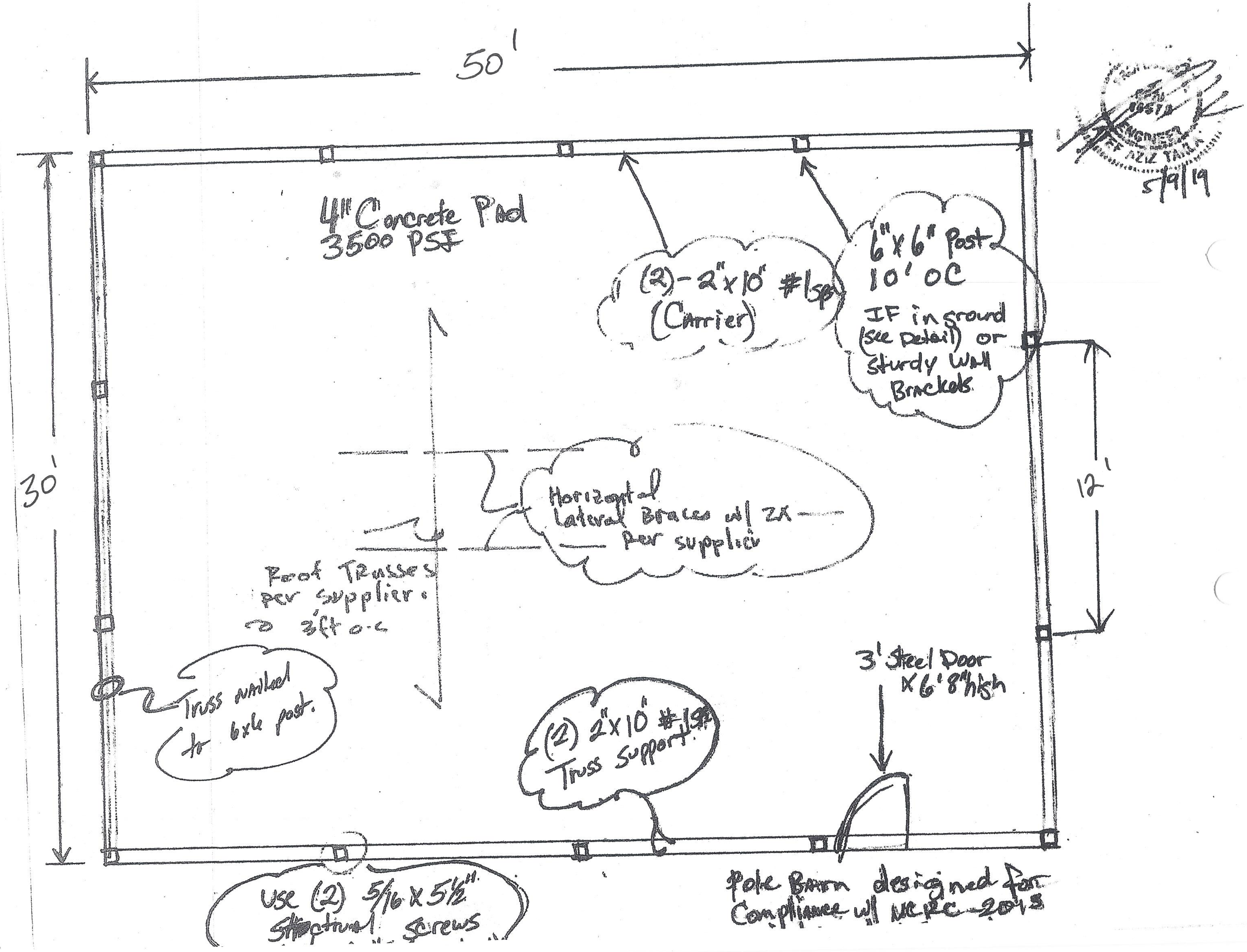
30 x 70 Roof

30 x 50 Shop.

30 x 20 Shelter on Front

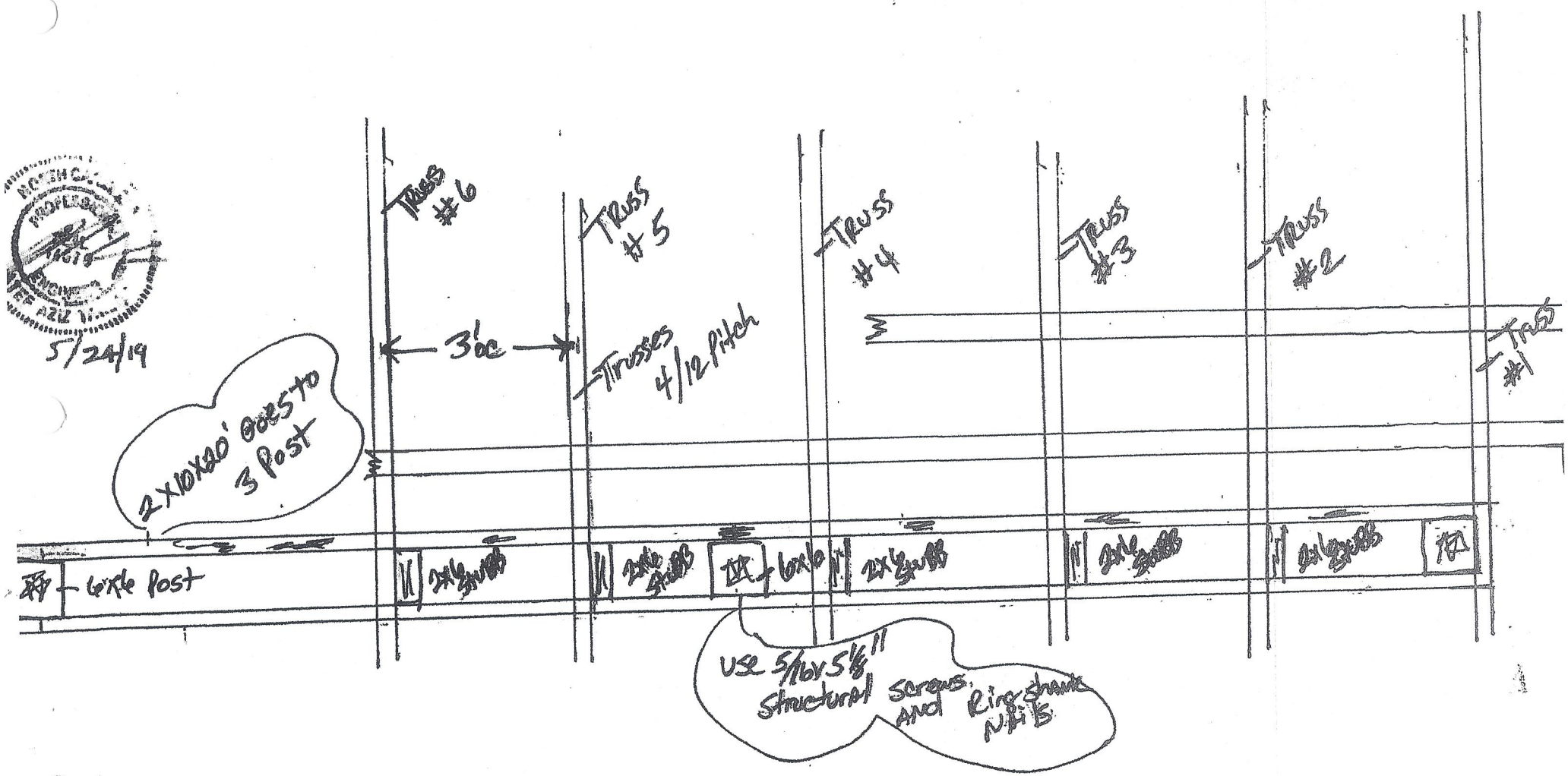
NORTH CAROLINA
ENGINEER

5/24/19



50'
30'
12'
4" Concrete Pad
3500 PSF
(2)-2"x10" #1sp (Carrier)
6"x6" Post 10' OC
IF in ground (see Detail) or Sturdy Wall Brackets
Horizontal Lateral Braces w/ 2X per supplier
Roof Trusses per supplier @ 3ft o.c
Truss nailed to 6x6 post.
(2) 2"x10" #1SP Truss support
3' Steel Door X 6'8" high
Use (2) 5/16 X 5 1/2" Structural screws
Pole Barn designed for Compliance w/ NCRC-2018
5/9/19

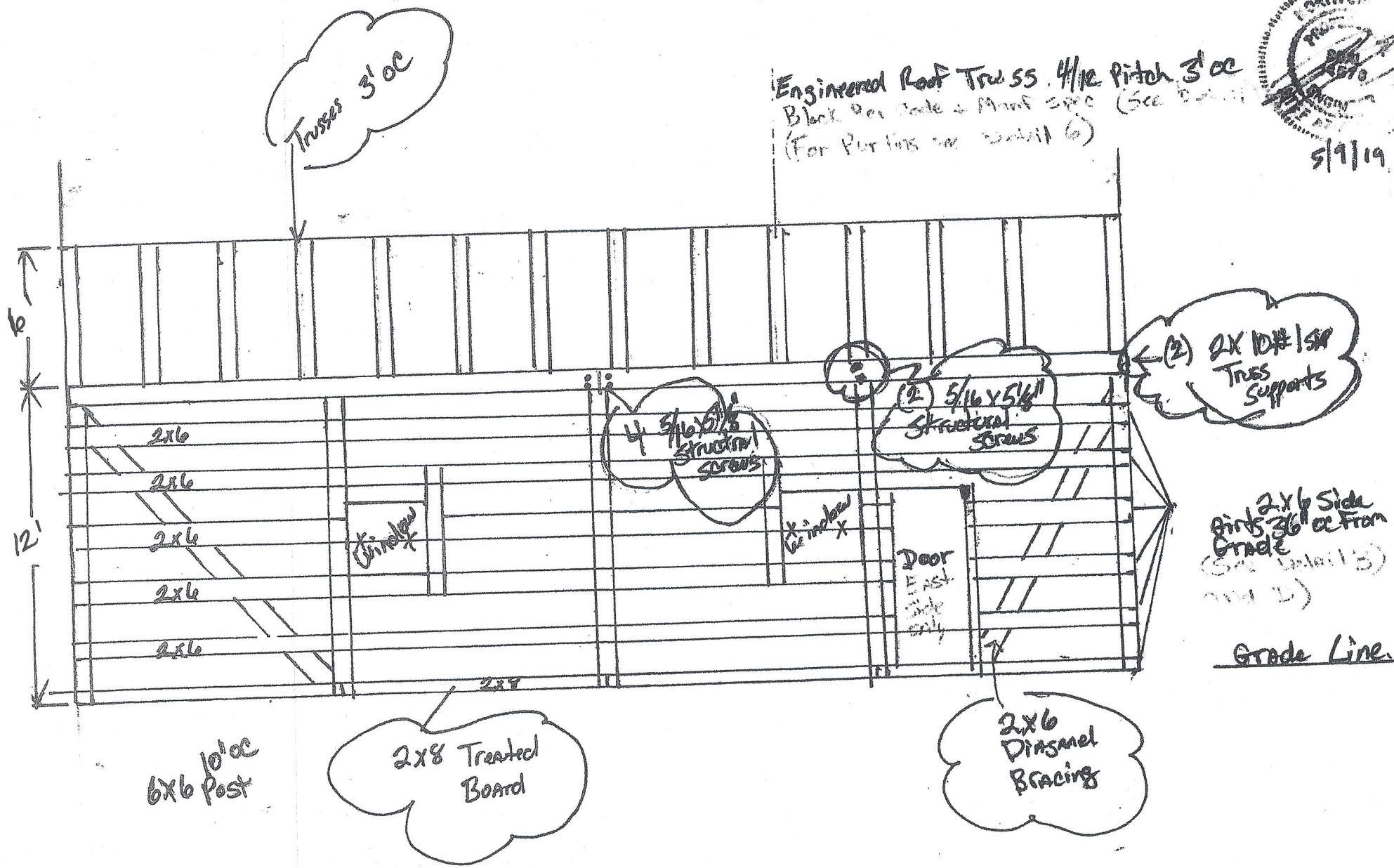
Pole Buildings.



5/24/19

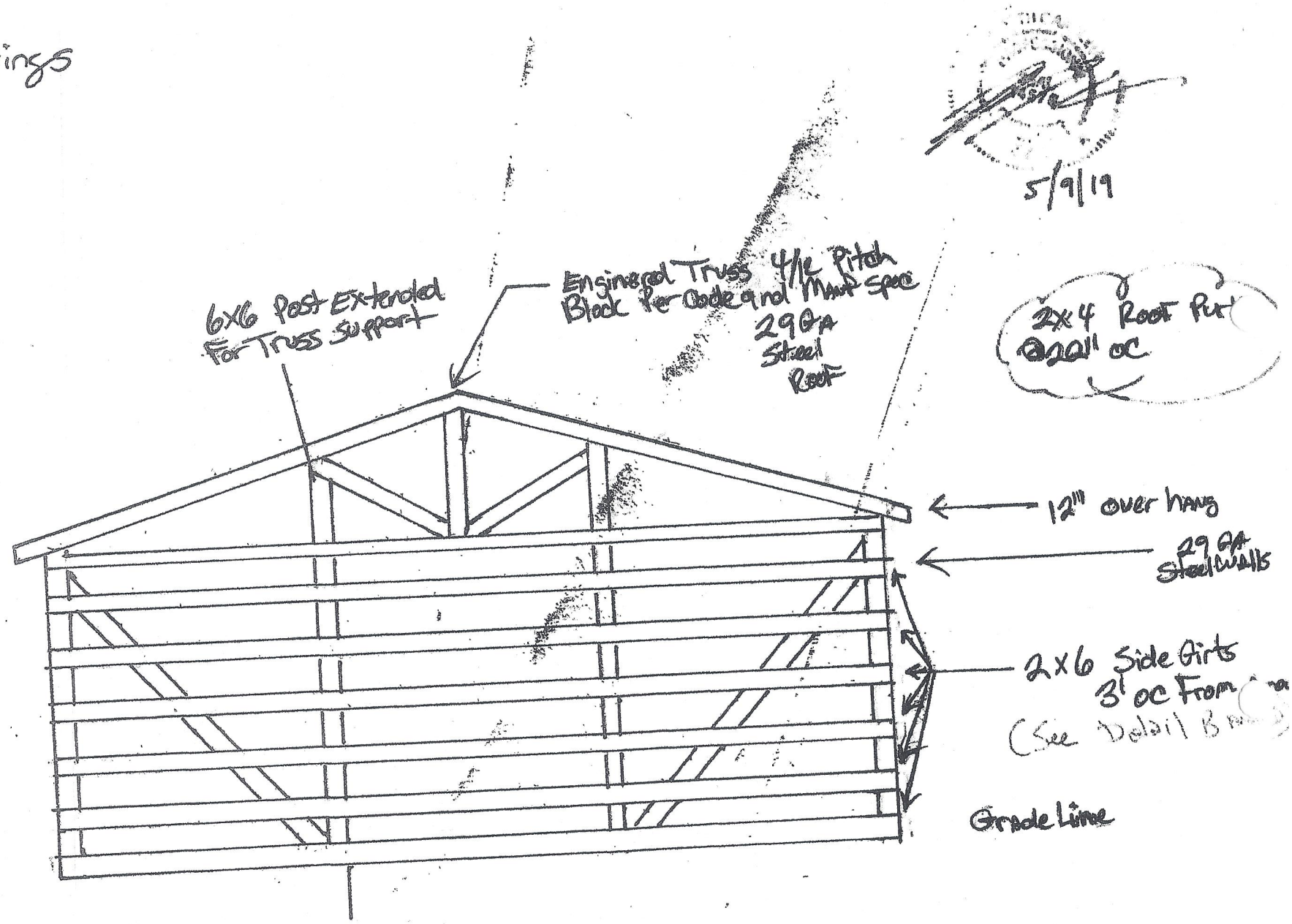
Pole Barn

Pole Buildings



Pole Barn

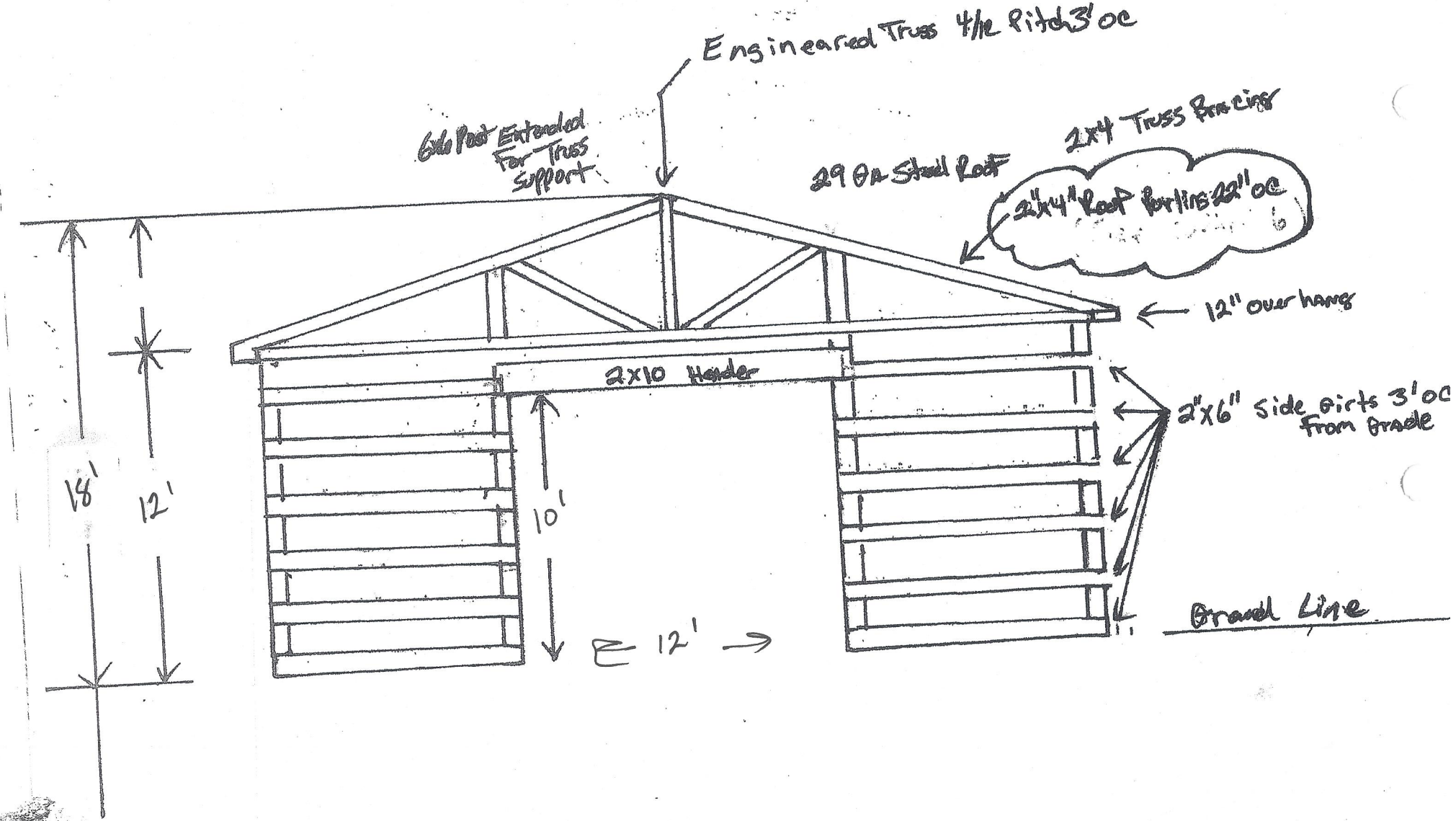
Pole Buildings



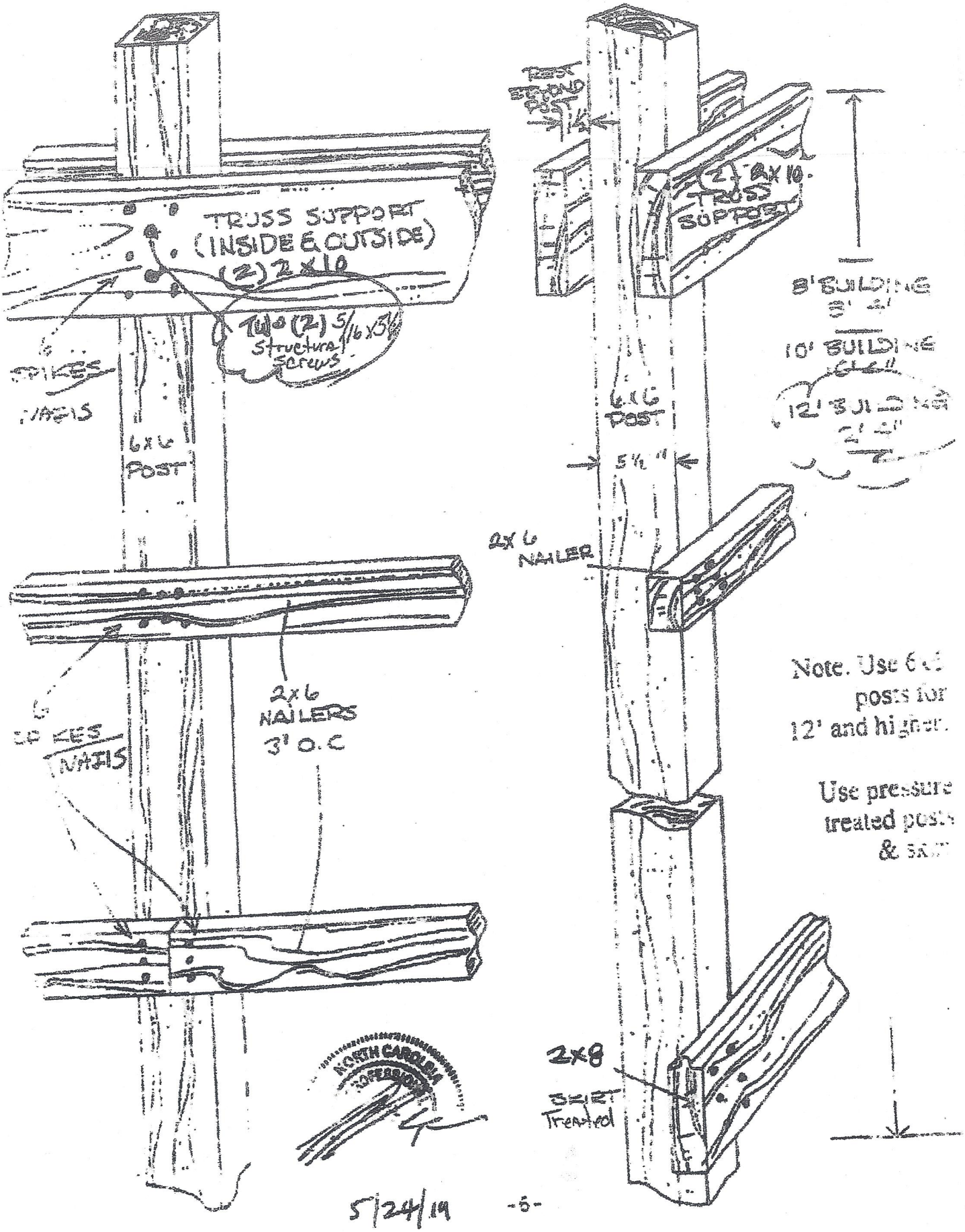
Pole Barn

Buildings.

5/9/19

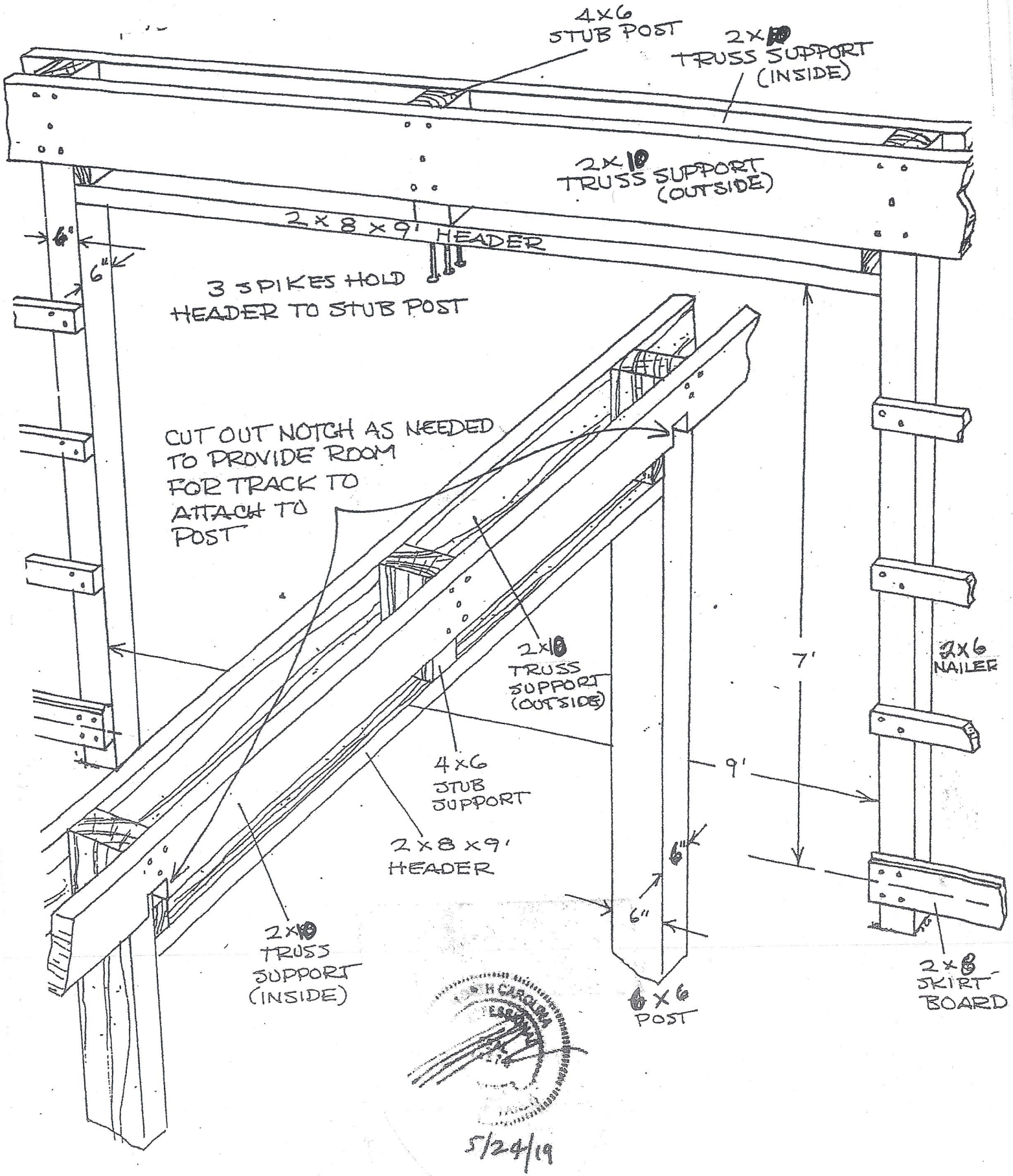


Thomas Pole Buildings.



5/24/19

OVERHEAD DOOR ON SIDE WALL



5/24/19