

1-All construction shall comply with Florida Building Code 8th edition 2023.

Ultimate Wind Speed: 140
 Nominal Wind Speed: 108
 Wind Exposure Category: B
 Risk Category 1 Non-Habitable
 Internal Pressure Coefficient $G_{CPI} = +/- 0.0$
 Design Pressure Per FBC Chapter 16 and ASCE 7-22 Load Calculations
 Roof Live Load = 12.5 PSF
 Roof Dead Load = 2.5 PSF
 Min Soil Bearing capacity = 2000 PSF
 Truss Bearing Load Each End = 3,500 lbs
 Truss Uplift @ Post = 2,400 lbs

Wood framing and fasteners to meet NDS-2018 requirements.

Fastener requirements: (1) all nails are common galvanized; (2) all bolts are to be galvanized steel and include nuts and washers; (3) all other hardware (Simpson or equal) is to be installed according to manufacturer's specifications and recommendations; (4) nailing (size and number) shall satisfy Tables 2306.2.(1), 2306.3.(1), and 2306.3.(#) FBC unless otherwise indicated; (5) Fasteners exposed to the weather are to be treated for weather resistance and compatible with the type of pressure treated wood use (connectors, nails, bolts, nuts, & washers).

1. Wood Pole Concrete Footings

- a. Minimum Ultimate Compressive Strength @ 28 days = 3,000 PSI
- b. Bag concrete mix allowed for wood pole footings when mixed in accord with manufacturers requirements for a minimum ultimate compressive strength of 3,000 PSI.

2. Building Concrete Wall Footings & Slabs

- a. Concrete work shall conform to "Building Code Requirements for Reinforced Concrete" (ACI-318) and "Specifications for Structural Concrete" (ACI-301), Latest Edition
- b. Minimum Ultimate Compressive Strength @ 28 days = 3,000 PSI
- c. All slabs on grade shall have construction or control joints not to exceed 10'-0" spacing, unless otherwise noted.

d. Electrical conduit and other pipes to be embedded in structural concrete floor slabs or walls shall be placed in accordance with the requirements of ACI-318, Paragraph 6.3

3. Reinforcing Steel

- a. Reinforcing steel shall conform to ASTM A615, Grade 40 (Fy-40 ksi). Lap continuous bars for tension lap splice per ACI-318, unless otherwise noted. Provide corner bars of the same size and spacing as horizontal wall reinforcement. Cover for concrete reinforcing steel shall be in accordance with ACI-318, Paragraph 7.7
- b. Welded wire fabric (WWF) shall conform to ASTM A185. Lap sheets two mesh spaces and wire tie adjacent sheets together securely. Cut alternate reinforcement at control joints.

The Structural Design Work in This Set of Engineering Plans Is Subject to But Not Limited to The Following Exclusions:

1. Architectural Design Services
2. Civil Engineering and Site Plan Design Services
3. Electrical and Lighting Design Services
4. HVAC Design Services
5. Plumbing Design Services
6. Geotechnical Engineering Services
7. Life Safety Plan Design Services
8. Flood Resistant Design Per Asce24-14
9. Any and All Local Code Requirements and Comments Made by The Authority Having Jurisdiction with The Regard To The Plans And Specifications

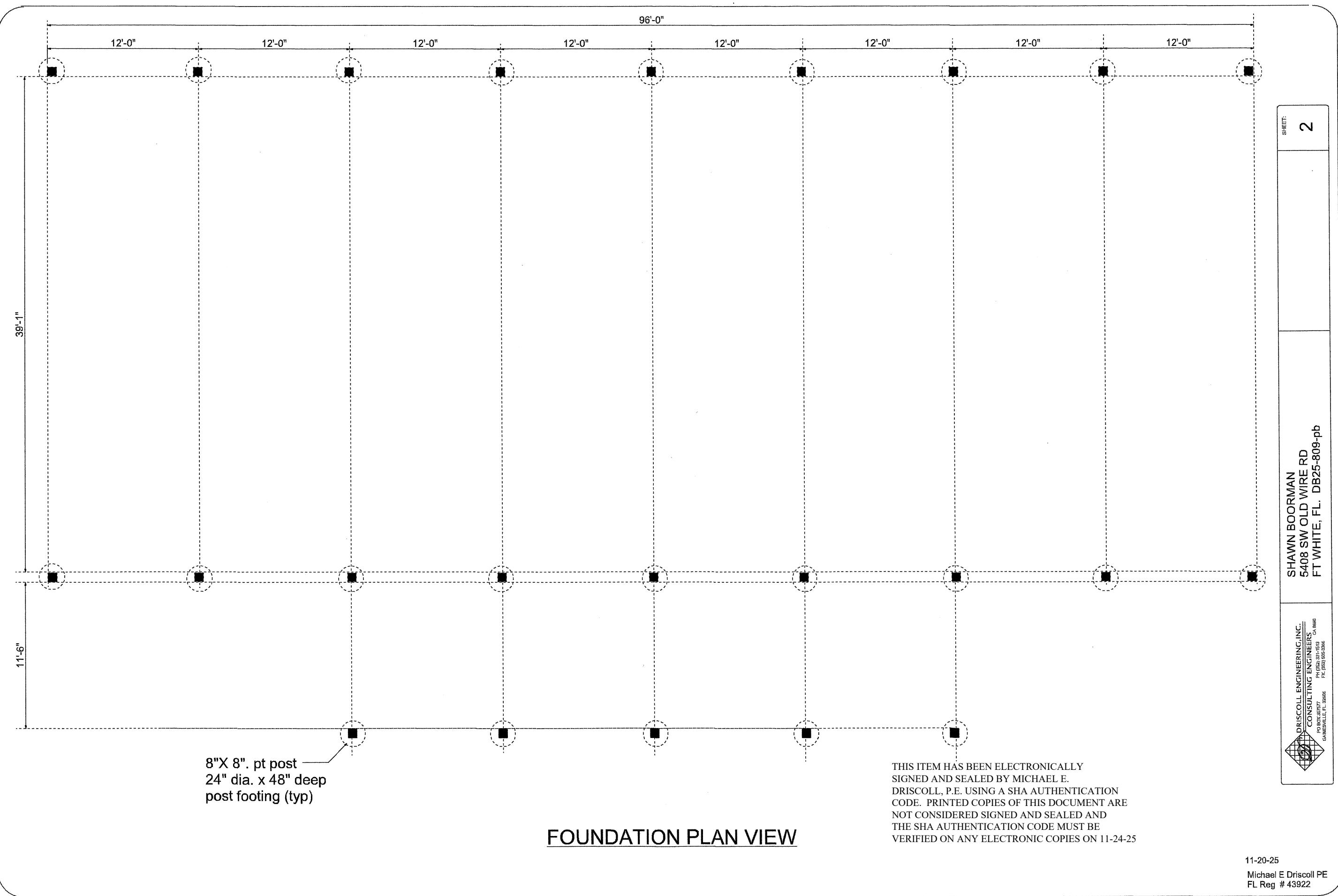
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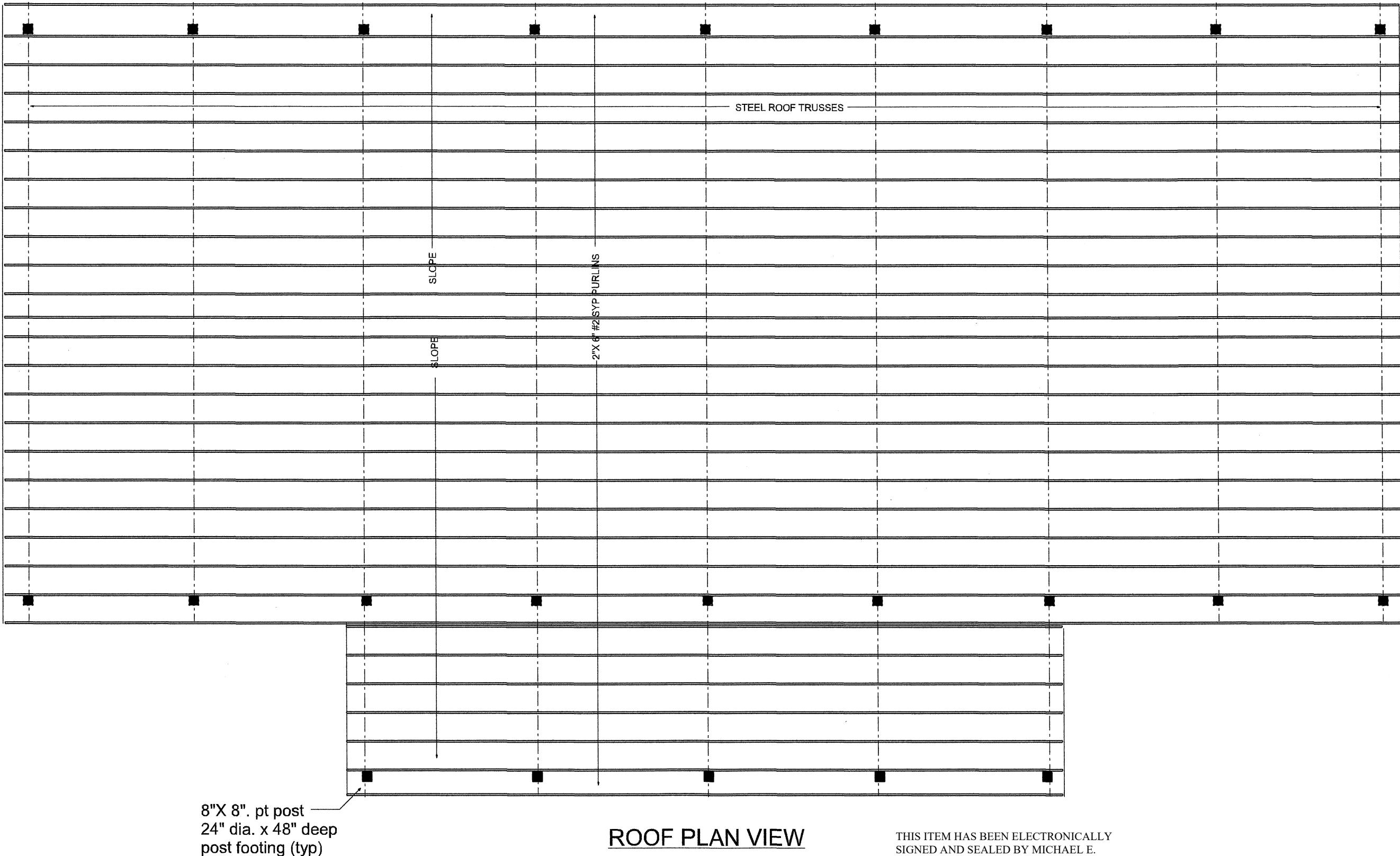
These Exclusions Are All the Owner's Responsibility

11-20-25

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52' x 96' OPEN POLE STORAGE STRUCTURE





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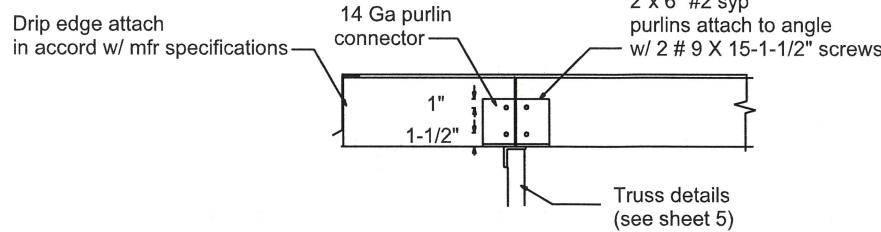
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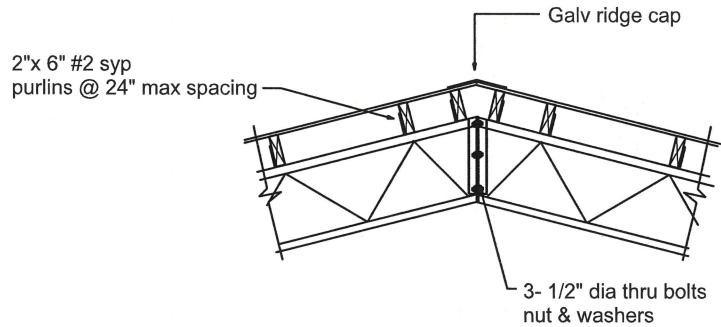
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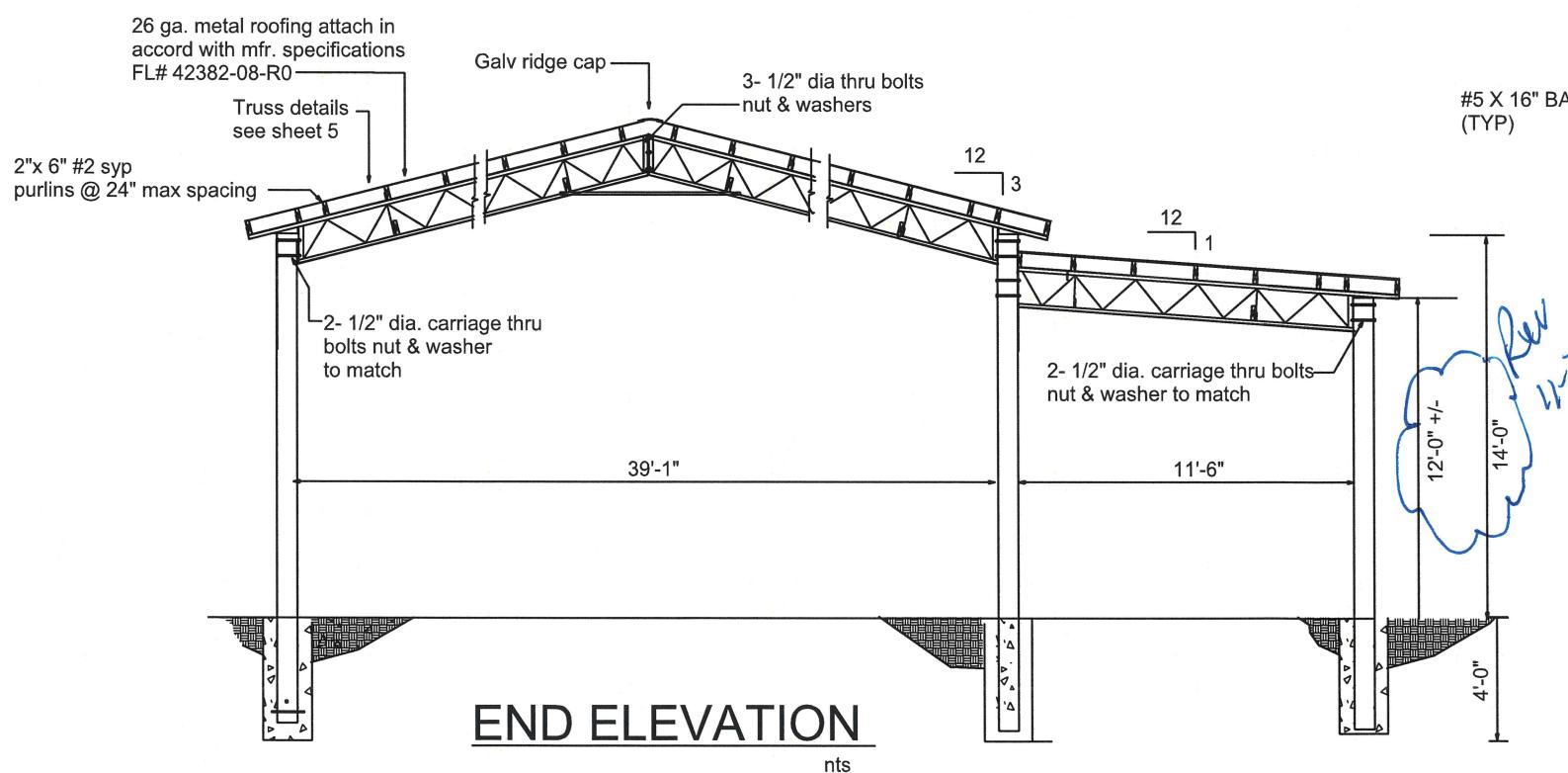
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SHEET: 4

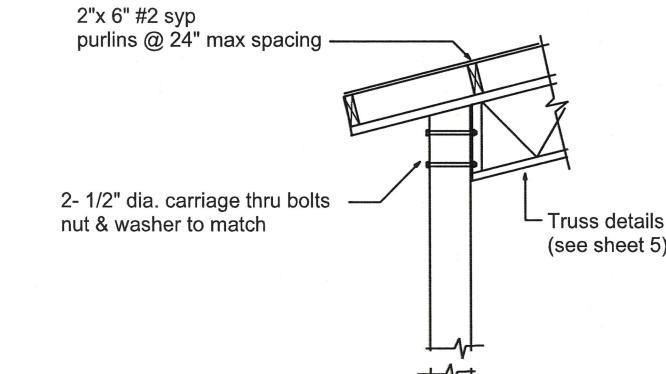
PURLIN CONNECTION DETAIL



RIDGE CONNECTION DETAIL

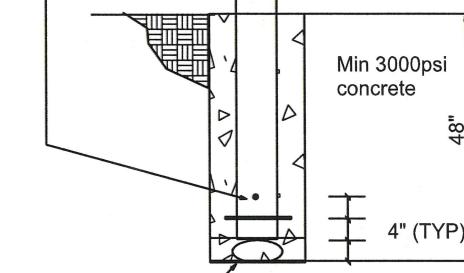


END ELEVATION



See sheet 2 &3 for post & footing sizes

#5 X 16" BARS CENTERED EACH WAY (TYP)



80# BAG SACRETE MIN. OR 24" SQ X 4" THICK CONCRETE PAD

POST FOOTING TO TRUSS DETAIL

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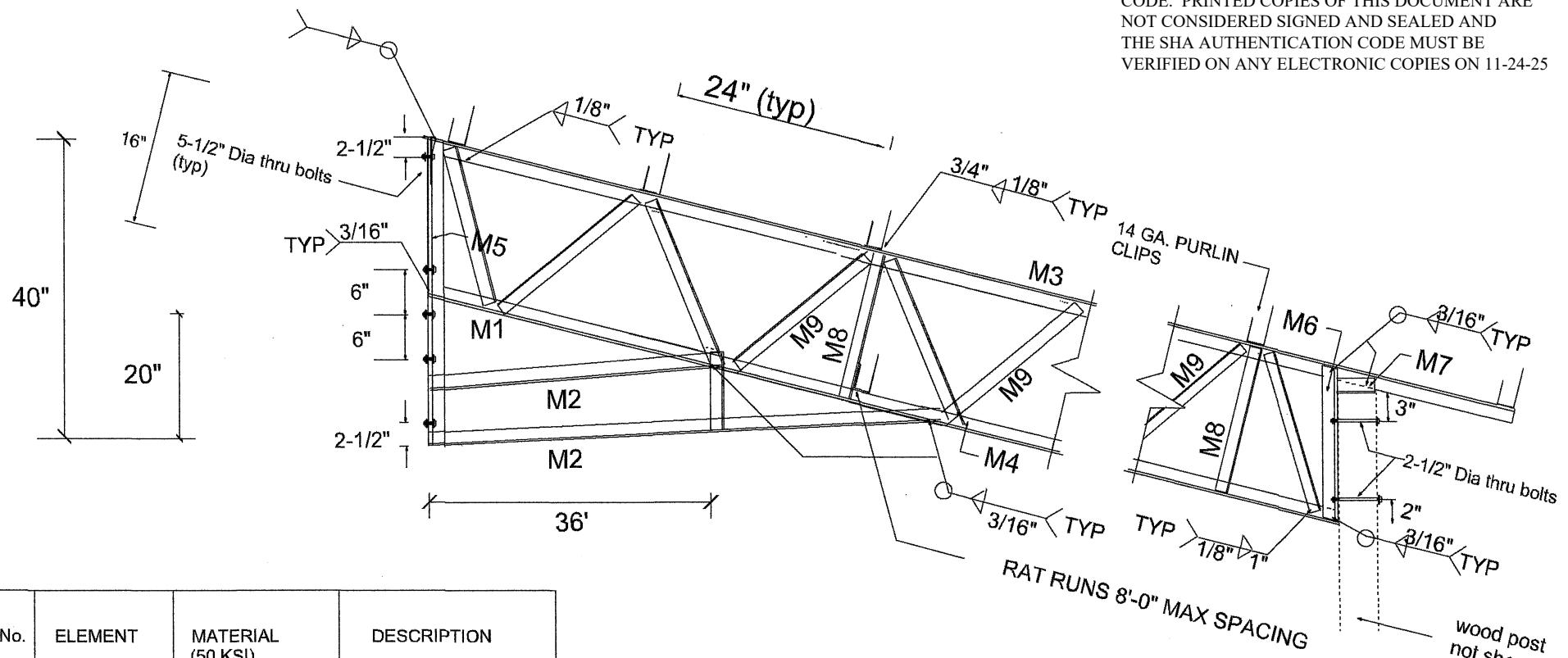
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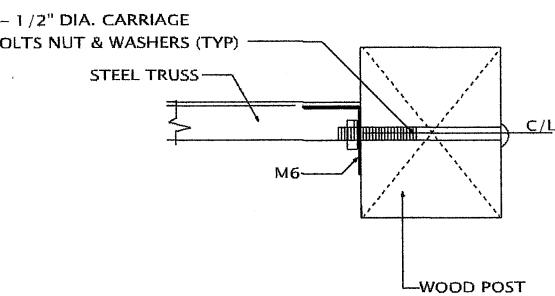


No.	ELEMENT	MATERIAL (50 KSI)	DESCRIPTION
M1	Collar Tie	ASTM 572	L 2"x 2" x 1/8" truss span over 30' use L 2"x 2" x 3/16"
M2	Collar Tie	ASTM 572	L 2"x 2" x 1/8" truss span over 30' use L 2"x 2" x 3/16"
M3	Top Chord	ASTM 572	L 2"x 2" x 1/8" truss span over 30' use L 3"x 2" x 3/8" LLV
M4	Bottom Chord	ASTM 572	L 2"x 2" x 1/8" truss span over 30' use L 3"x 2" x 3/8" LLV
M5	Center vertical	ASTM 572	L 2"x 2" x 3/16"
M6	End Vertical	ASTM 572	L 2"x 2" x 3/16" truss span over 30' use L 3"x 2" x 3/8"
M7	Bearing angle	ASTM 572	L 2"x 2" x 3/16" truss span over 30' use L 3"x 2" x 3/8"
M8	Inside vertical	ASTM 572	L 1-1/2"x 1-1/2" x 3/16" M8 & rat run @ 8'-0"
M9	Diagonal web	ASTM 572	L 1-1/2"x 1-1/2" x 3/16"

NOTES:

- 1-MATERIALS SHALL CONFORM TO STEEL ASTM 572.
- 2- ALL STEEL SHALL BE 50ksi IN ACCORD WITH CURRENT AISC MANUAL.
- 3- WELDING ELECTRODES TYPE E70XX
- 4- ALL WELDING SHALL BE IN ACCORD WITH CURRENT AWS REQUIREMENTS.
- 5-ALL WELDING SHALL BE DONE BY A CERTIFIED WELDER.
- 6-BOLTS SHALL BE ASTM A325. w/ NUTS & WASHERS. (TYP)
- 7- WELD STRENGTH 70 KSI MIN.
- 8- ALL POST SHALL BE PRESSURE TREATED GROUND CONTACT. (1500FB Min)
- 9- PRIMING & PAINTING SHALL BE DONE BY TRUSS MANUFACTURER.
- 10- MIN EDGE DISTANCE FOR BOLTS HOLES SHALL BE 3/4" MIN
- 11-MAX TRUSS SPACING SHALL NOT EXCEED 12'-0" UNO.
- 12-THE DESIGNER DISCLAIMS ANY RESPONSIBILITY FOR DAMAGES AS A RESULT OF
POOR WORKMANSHIP, OR IMPROPER USE, AND ACCEPTS NO RESPONSIBILITY OR
EXERCISES NO CONTROL WITH REGARD TO FABRICATION, HANDLING, AND INSTALLATION
OF TRUSSES.

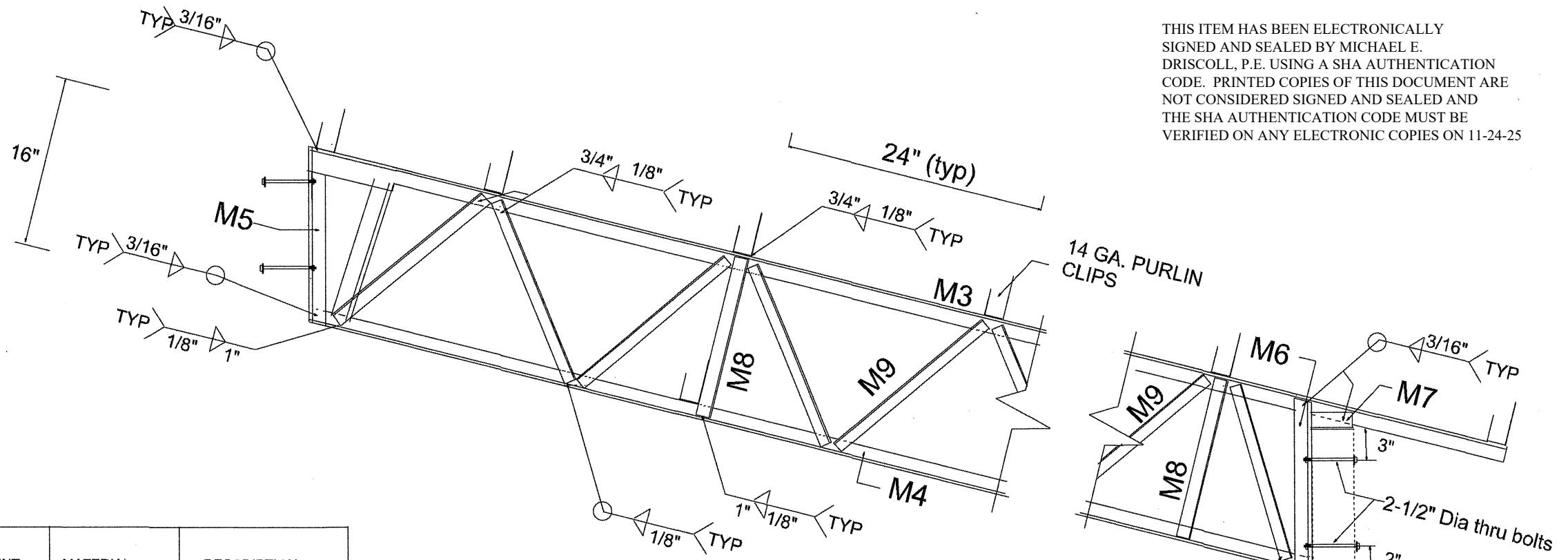
TRUSS DETAILS



TRUSS TO POST DETAIL
PLAN VIEW

11-20-25
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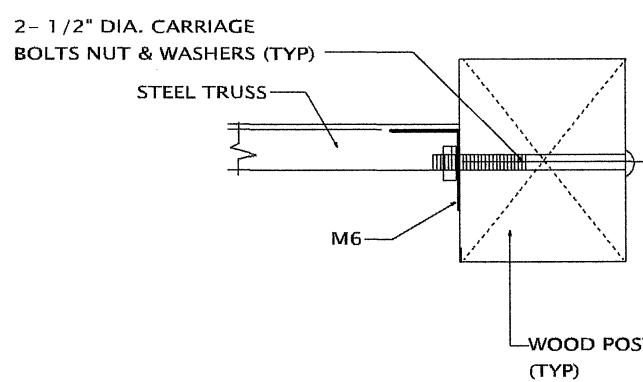
STEEL TRUSS CROSS SECTION

CONNECTOR SCHEDULE

2" x 6" #2 syp purlin to 6" x 6" x 14 ga. clip 2-#9 x 1-1/4" lag screws
Truss to truss @ ridge 3-1/2" dia thru bolts & nut
Wood post to truss- 2 1/2" dia thru bolts nut & washers
Post to concrete 18" dia x 48" deep w/ 2 #5 bars thru post

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LEAN TRUSS DETAILS

TRUSS TO POST DETAIL
PLAN VIEW

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