

Fort White United Methodist Church

113 SW Donnelly Ave, Fort White, FL 32038

40' x 48' OPEN POLE
BARN STRUCTURE



1. ALL CONSTRUCTION SHALL COMPLY WITH 2020 FLORIDA BUILDING CODE 7th EDITION

ULTIMATE WIND SPEED: 130
NOMINAL WIND SPEED: 101
WIND EXPOSURE CATEGORY: B
RISK CATEGORY 1
INTERNAL PRESSURE COEFFICIENT Gcpi= +/- 0.0
DESIGN PRESSURE PER FBC CHAPTER 16
DESIGN ROOF LIVE LOAD = 20 PSF
DESIGN ROOF DEAD LOAD = 3.5 PSF
MIN SOIL BEARING 2500 PSF
TRUSS BEARING LOAD EACH END = 4600 LBS
TRUSS UPLIFT @ POST = 2880 LBS

1. WOOD FRAMING AND FASTENERS TO MEET NDS-2018 REQUIREMENTS
2. FASTER REQUIREMENTS: (1) ALL NAILS ARE COMMON GALVANIZED; (2) ALL BOLTS ARE TO BE GALVANIZED STEEL AND INCLUDE NUTS AND WASHERS; AND (3) ALL OTHER HARDWARE (SIMPSON, ETC) IS TO BE INSTALLED ACCORDING TO MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS. NAILING (SIZE AND NUMBER) SHALL SATISFY TABLES 2306.2, (1) AND 2306.3(4) FBC UNLESS OTHERWISE INDICATED. NOTE: FASTENERS EXPOSED TO THE WEATHER ARE TO BE TREATED FOR WEATHER RESISTANCE AND COMPATIBLE WITH THE TYPE OF PRESSURE TREATED WOOD USED (CONNECTORS, NAILS, BOLTS, NUTS AND WASHERS)

2. CONCRETE CONSTRUCTION NOTES:

1. CONCRETE WORK SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI-318) ANDE "SPECIFICATIONS FOR STRUCTURAL CONCRETE" (ACI-301), LATEST EDITION
2. CONCRETE MIX SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS. ALL CONCRETE MIXES SHALL CONTAIN A WATER-REDUCING ADMIXTURE CONFORMING TO ASTM C-494. AIR-ENTRAINING ADMIXTURE SHALL CONFORM TO ASTM C-260

CONCRETE MIX A

ULTIMATE COMPRESSIVE STRENGTH @ 28 DAYS 3000 PSI
SLUMP RANGE 4" +/- 1"
MAXIMUM AGGREGATE SIZE 1"
ENTRAINED AIR NONE
DRY WEIGHT PER CUBIC FOOT 150 #

3. SHOTCRETE MIX
4. ALL CONCRETE SHALL BE CURED FOR A MINIMUM OF 28 DAYS. IF FORMS FOR VERTICAL SURFACES ARE REMOVED PRIOR TO THE END OF THE CURING PERIOD, SPRAY SURFACES WITH LIQUID MEMBRANE CURING COMPOUND
5. 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 SAME SIZE AND SPACING AS HORIZONTAL WALL REINFORCEMENT. COVER FOR CONCRETE REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI-318, PARAGRAPH 7.7
6. WELDED WIRE FABRIC (WVF) SHALL CONFORM TO ASTM A185. LAP SHEETS TWO MESH SPACES AND WIRE TIE ADJACENTS SHEETS TOGETHER SECURELY. CUT ALTERNATE REINFORCEMENT AT CONTROL JOINTS
7. ALL SLABS ON GRADE SHALL HAVE CONSTRUCTION OR CONTROL JOINTS NOT TO EXCEED 15'-0" SPACING, UNLESS OTHERWISE NOTED.
8. 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

BUILDING COMPONENTS & CLADDING LOADS MEAN BUILDING HEIGHT = 30.0', EXPOSURE "B" ROOF ANGLE 7° TO 27°					
ZONE	AREA	WIND 110 MPH	WIND 120 MPH	WIND 130 MPH	WIND 140 MPH
1	10	12.0 / -19.9	14.9 / -23.7	17.5 / -27.8	20.3 / -32.3
1	20	11.4 / -19.4	13.6 / -23.0	16.0 / -27.0	18.5 / -31.4
1	50	10.0 / -18.6	11.9 / -22.2	13.9 / -26.0	16.1 / -30.2
2	10	12.5 / -34.7	14.9 / -41.3	17.5 / -48.4	20.3 / -56.2
2	20	11.4 / -31.9	13.8 / -38.0	16.0 / -44.6	18.5 / -51.7
2	50	10.0 / -28.2	11.9 / -33.6	13.9 / -38.4	16.1 / -45.7
3	10	12.5 / -51.3	14.9 / -61.0	17.5 / -71.6	20.3 / -83.1
3	20	11.4 / -47.9	13.6 / -57.1	16.0 / -67.0	18.5 / -77.7
3	50	10.0 / -43.5	11.9 / -51.8	13.9 / -60.8	16.1 / -70.5
4	10	21.6 / -23.6	25.9 / -34.7	30.4 / -33.0	35.3 / -38.2
4	20	20.8 / -22.6	24.7 / -26.9	29.0 / -31.6	33.7 / -36.7
4	50	19.5 / -21.3	23.2 / -25.4	27.2 / -28.8	31.6 / -34.6
5	10	21.8 / -29.1	25.9 / -34.7	30.4 / -40.7	35.3 / -47.2
5	20	20.8 / -27.2	24.7 / -32.4	29.0 / -36.0	33.7 / -44.0
5	50	19.5 / -24.6	23.2 / -29.3	27.2 / -34.3	31.6 / -39.8

HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENTS FOR BUILDING COMPONENTS & CLADDING				
BUILDING HEIGHT	EXPOSURE "B"	EXPOSURE "C"	EXPOSURE "D"	EXPOSURE
15	1.00	1.21	1.47	
20	1.00	1.29	1.65	
25	1.00	1.35	1.61	
30	1.00	1.40	1.66	

PAGE INDEX & REVISIONS SCHEDULE:			
DATE:	PAGE #:	PAGE DESCRIPTION	REVISION DATE:
Friday, February 4, 2022	1	WINDLOAD & SPECS	
Friday, February 4, 2022	2	FOUNDATION	
Friday, February 4, 2022	3	ROOF FRAMING	
Friday, February 4, 2022	4	BUILDING SECTION	
Friday, February 4, 2022	5	TRUSS SECTION	
Friday, February 4, 2022	6	TRUSS DETAILS	



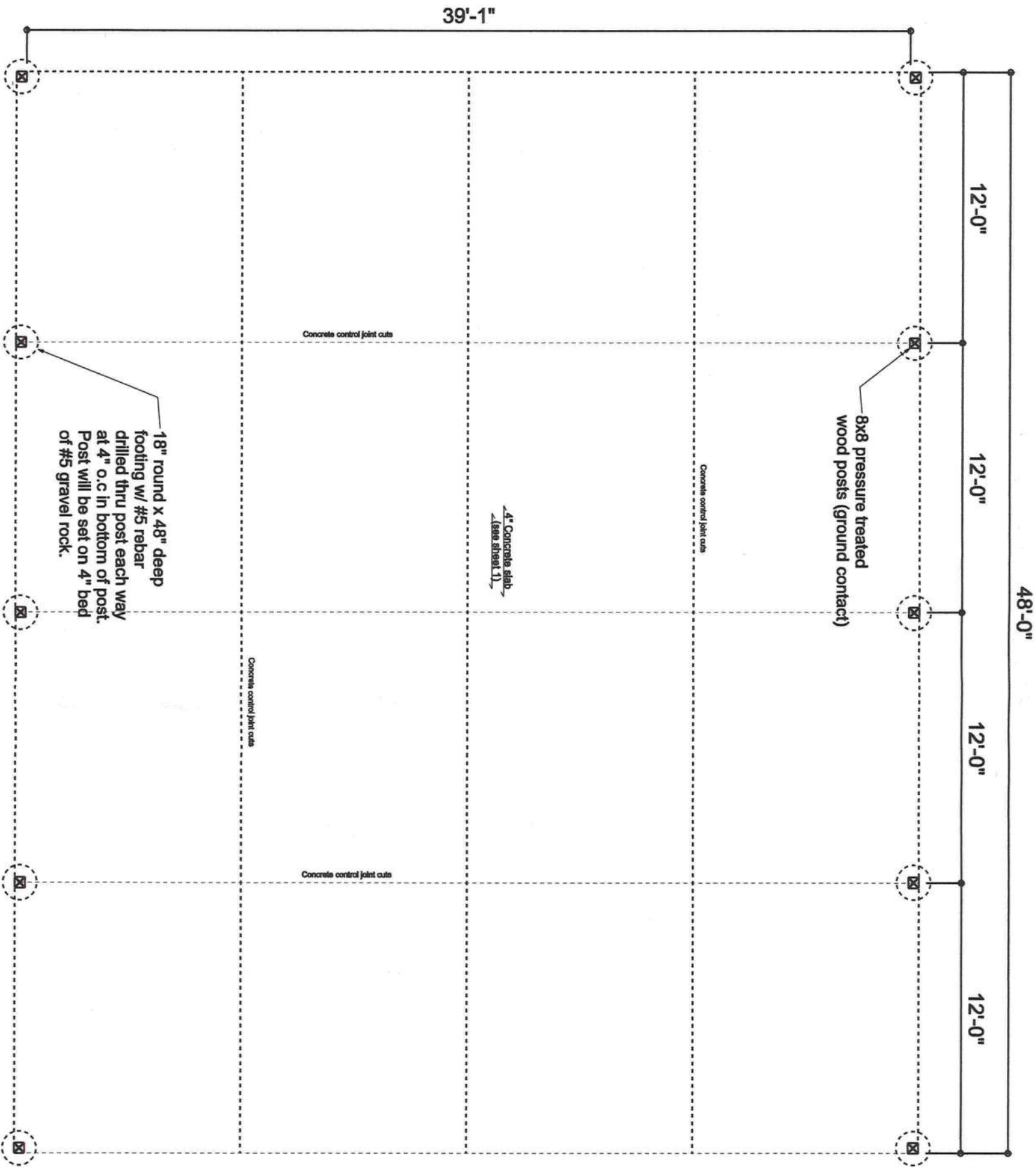
RIDGEPOINT
DESIGN
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FOUNDATION PLAN VIEW

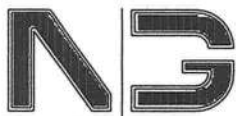
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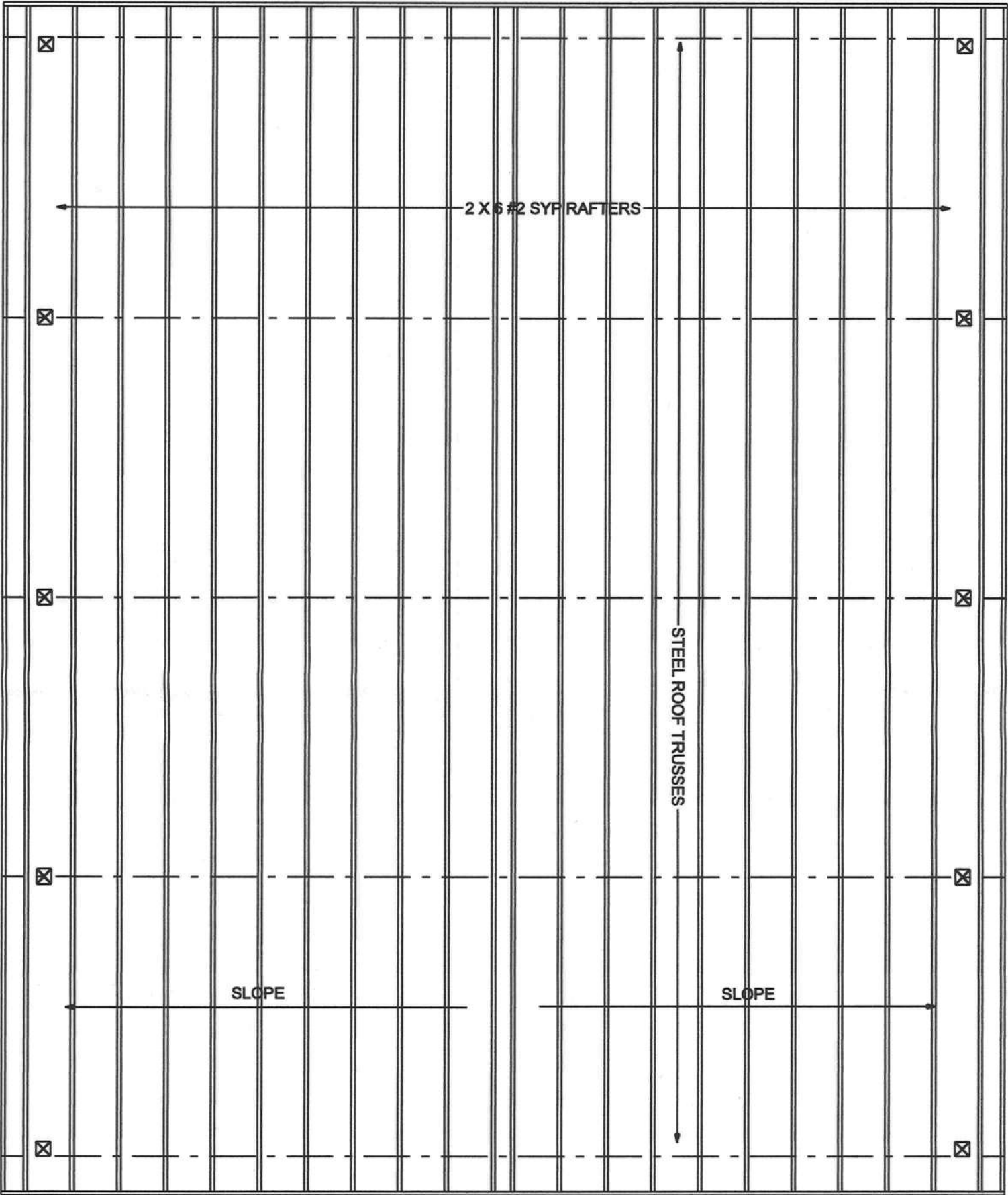
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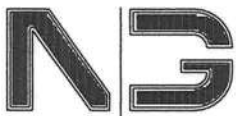


RAFTER FRAMING PLAN

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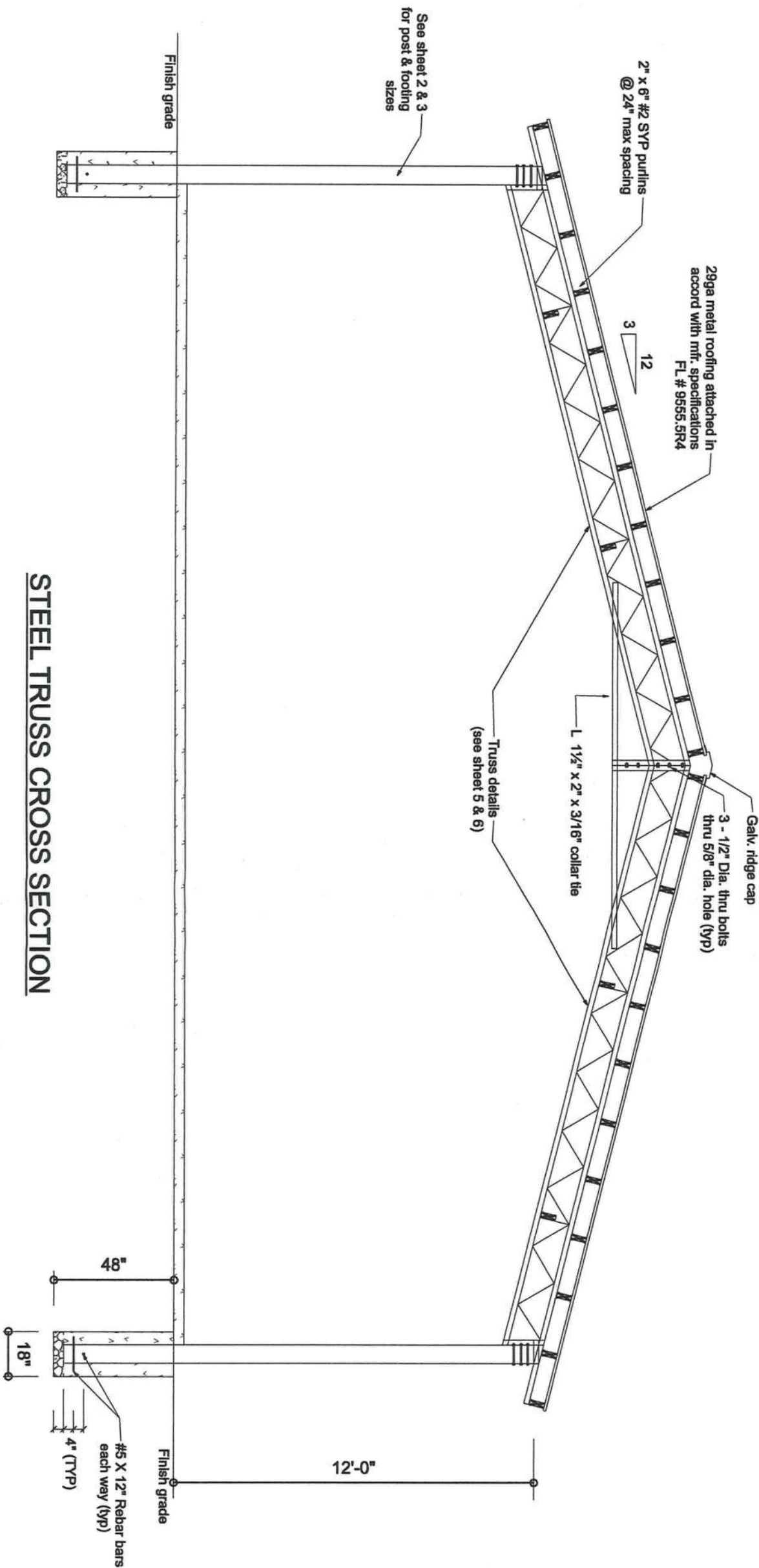


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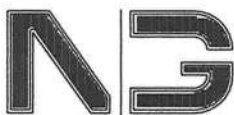


STEEL TRUSS CROSS SECTION



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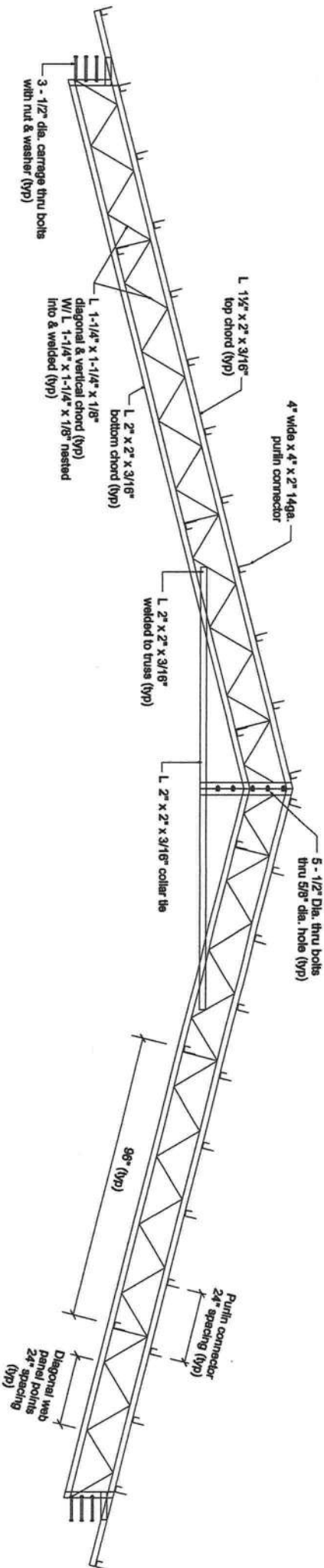
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STEEL TRUSS CROSS SECTION

NOTES:

- 1. MATERIALS SHALL CONFORM TO STEEL ASTM 513
- 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 AWSA 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.
- 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"
- 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.

[Signature]
08 Feb 2022
AR0007005



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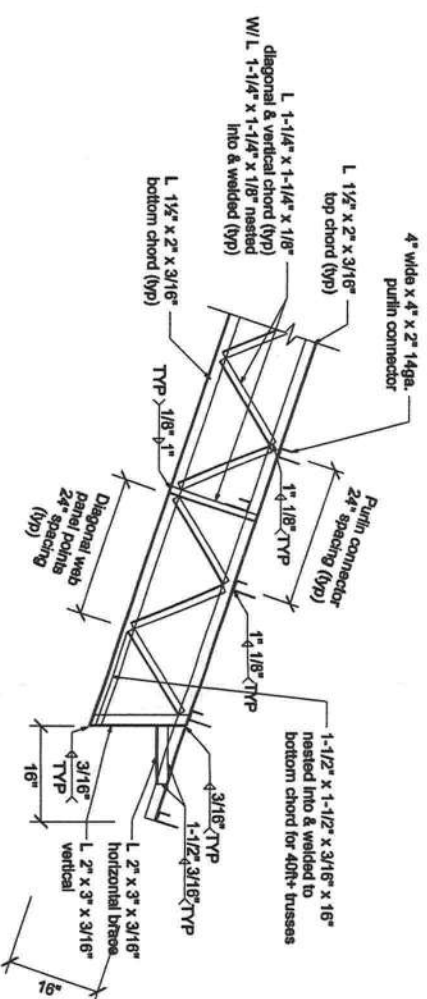


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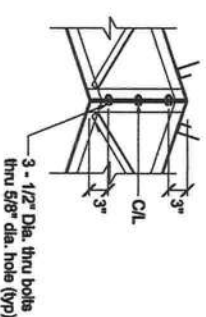
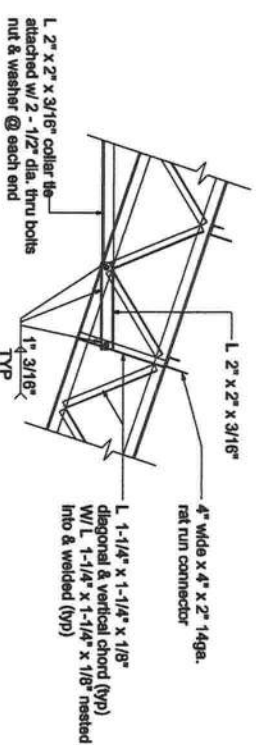
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COLLAR TIE SECTION



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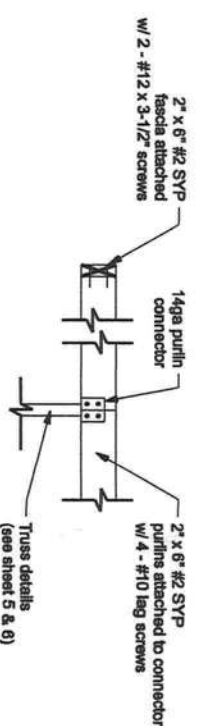


Diagram illustrating the connection of a PRT Post (see sheet 2 for size) to a beam. The post is shown with a diameter of 16". The connection is secured by 3 - 1/2" dia. carriage bolts (typ). The bolts are spaced 3" apart.

POST TO TRUSS CONNECTION