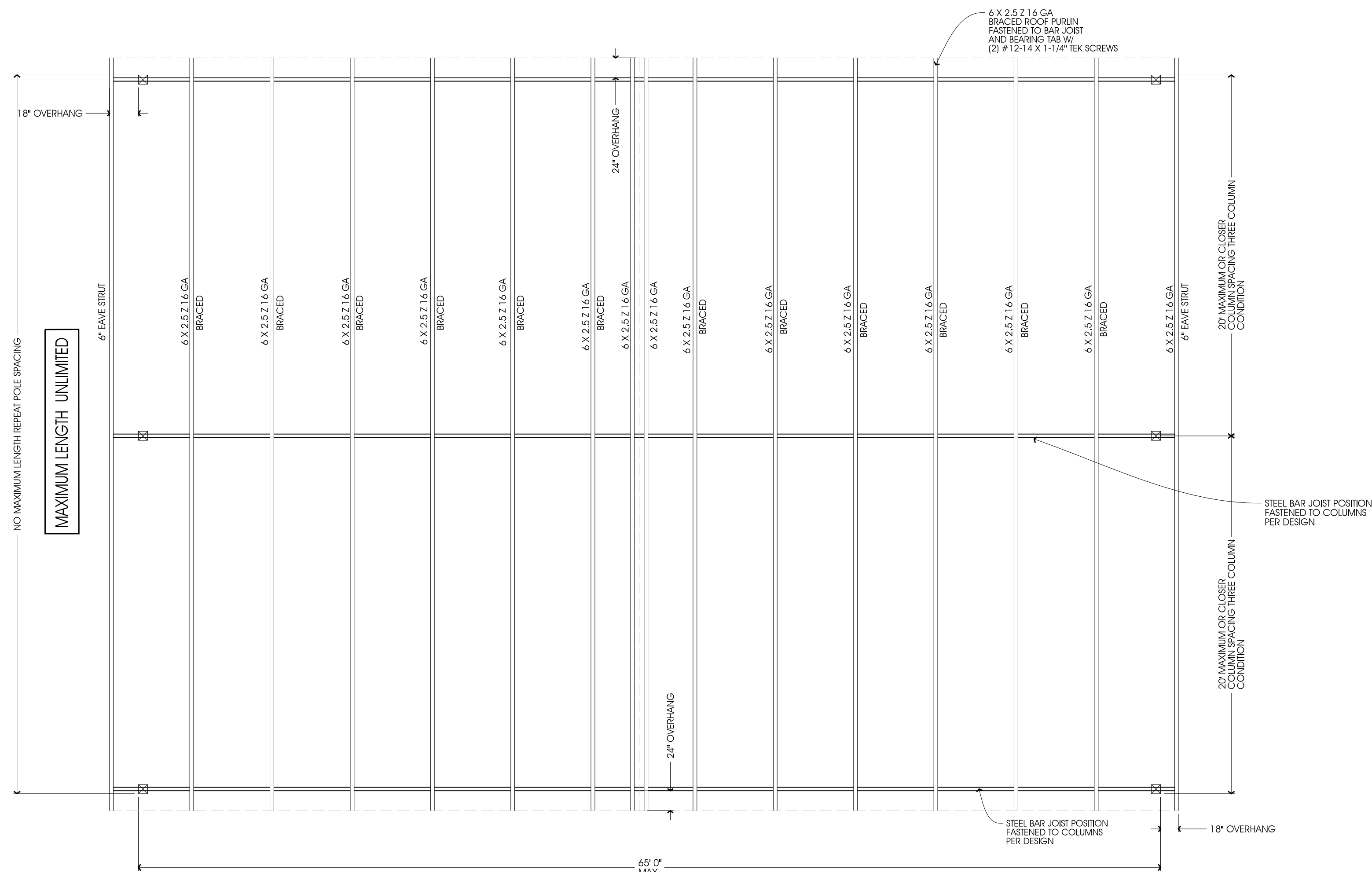
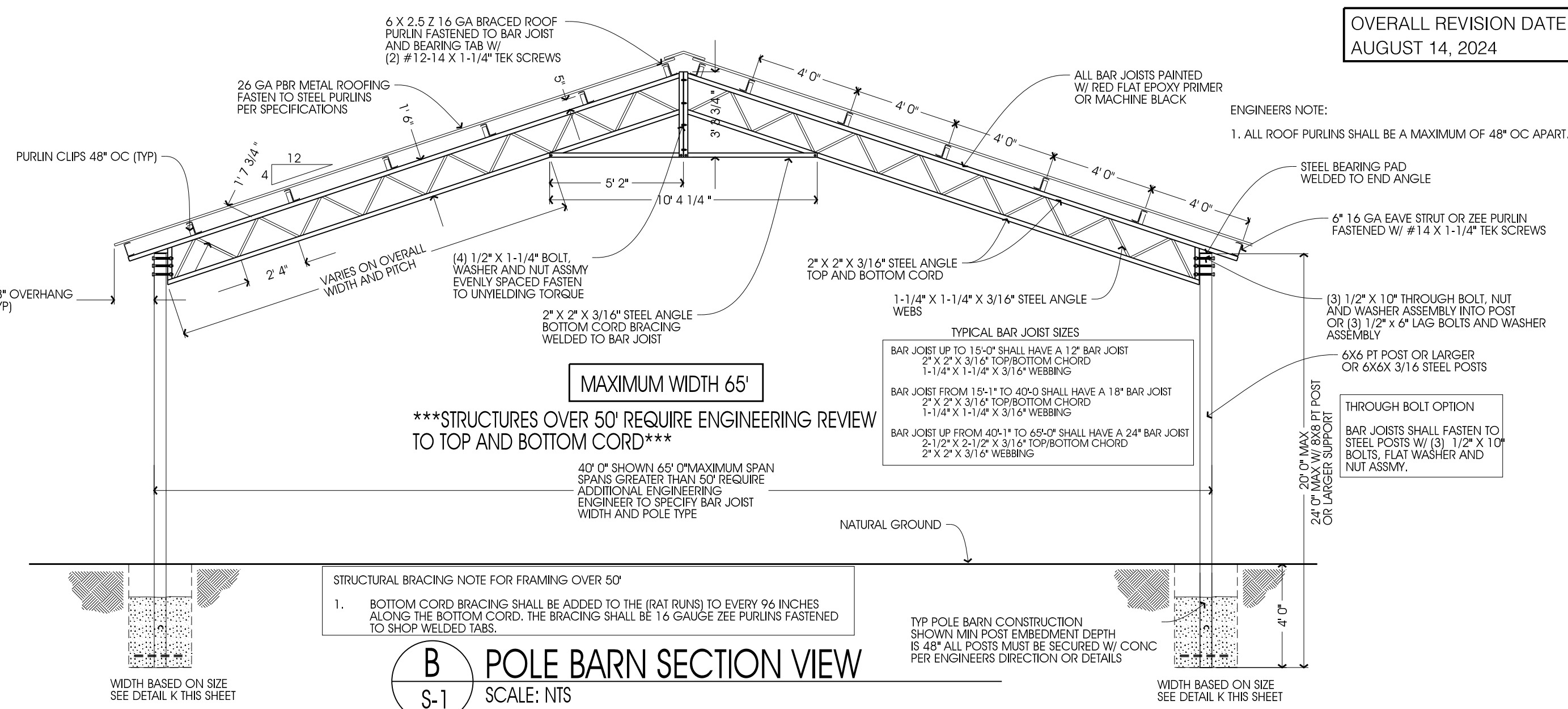


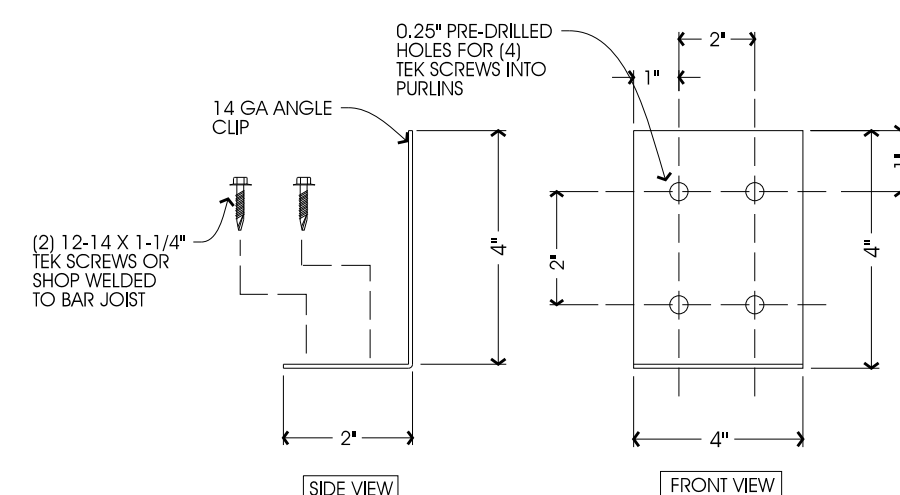
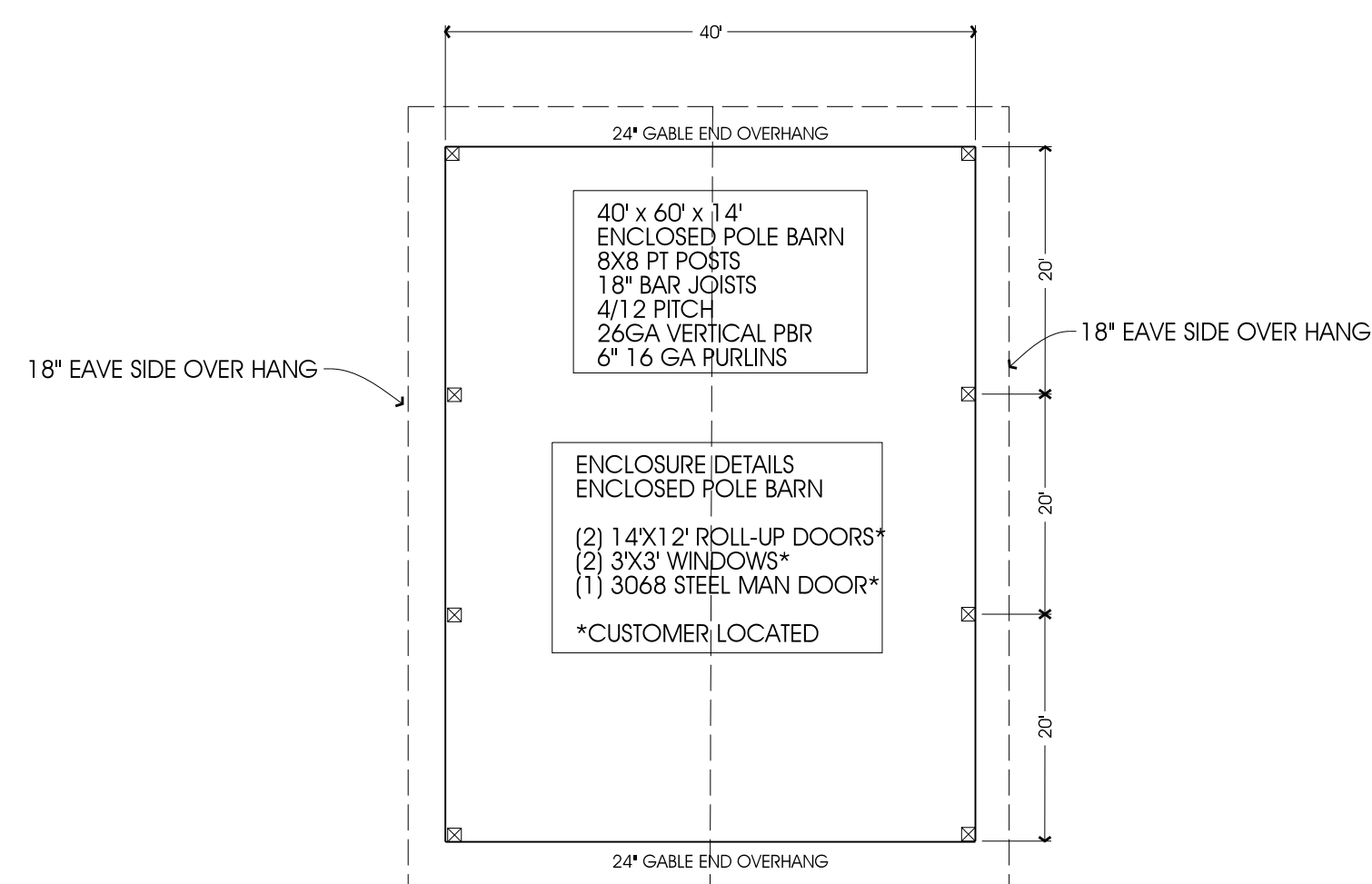
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**A** POLE BARN PLAN VIEW  
S-1 SCALE: NTS

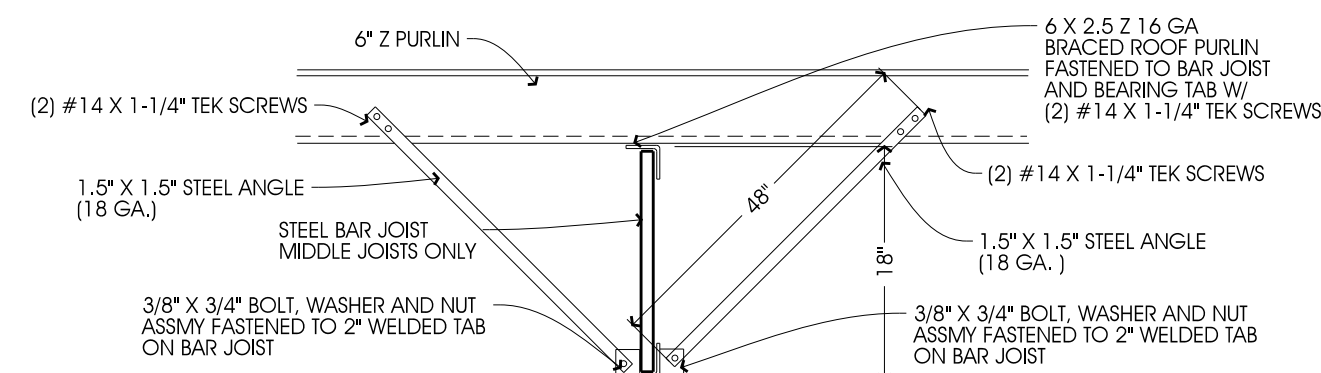


**B** POLE BARN SECTION VIEW  
S-1 SCALE: NTS



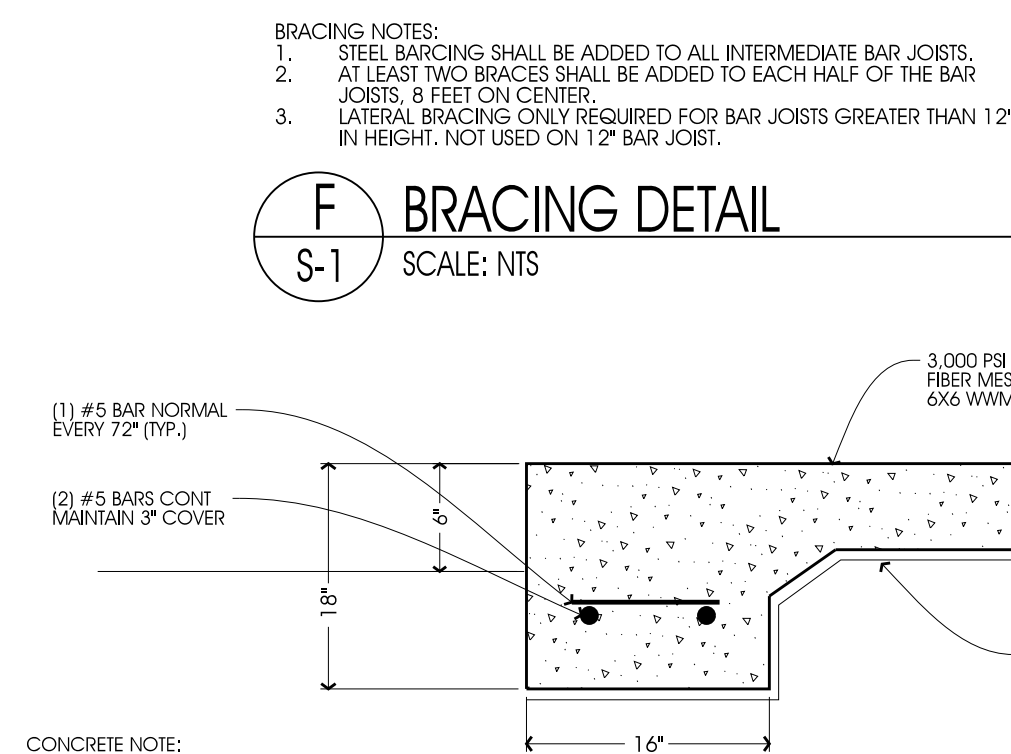
1 PURLIN CLIP  
S-1 SCALE: NTS

NOTE:  
INSTEAD OF TEKS 3/8" BOLTS WITH WASHER AND NUTS MAY BE SUBSTITUTED.

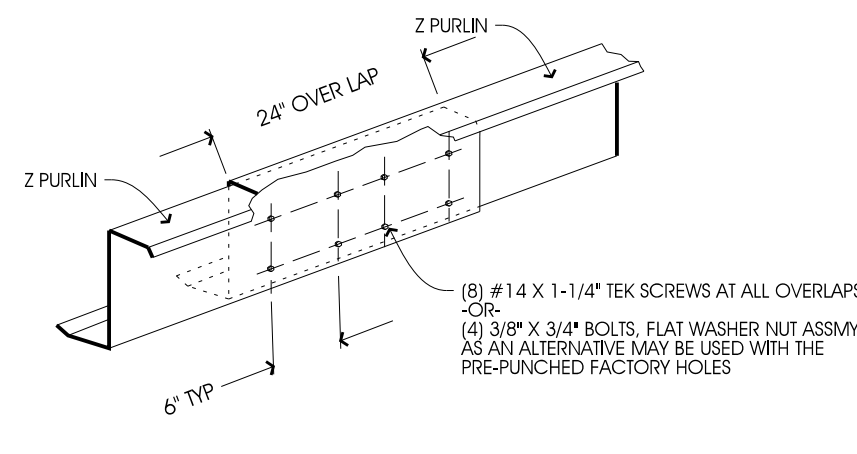


F BRACING DETAIL  
S-1 SCALE: NTS

| ZEE PURLIN LOADING/SPAN TABLE |       |                            |          |
|-------------------------------|-------|----------------------------|----------|
| ZEE                           |       | 3 OR MORE SPANS, STD., LAP |          |
|                               |       | 16 GAUGE                   | 14 GAUGE |
| SECTION                       | BAY   |                            |          |
| 6" WEB                        | 15 FT | 176                        | 235      |
|                               | 18 FT | 118                        | 157      |
|                               | 20 FT | 94                         | 124      |
| 8" WEB                        | 20 FT | 127                        | 178      |
|                               | 22 FT | 105                        | 145      |
|                               | 24 FT | 88                         | 121      |



**G** OPTIONAL CONCRETE FOUNDATION  
S-1 SCALE: NTS



**D** Z PURLIN SPLICE JOINT  
S-1 SCALE: NTS

STEEL NOTE:

THE DESIGN, FABRICATION, AND CREATION OF STRUCTURAL STEEL ELEMENTS SHALL BE IN ACCORDANCE WITH AISC 360 AND AISC CODE OF STANDARD PRACTICE, 2020.

ENGINEERS NOTE:

THIS PLAN HAS BEEN PREPARED WITHOUT THE BENEFIT OF A SPECIFIC SITE PLAN FOR LOCATION CONSTRAINTS OR CONDITIONS. CONTRACTOR / BUILDING ERECTOR SHALL CONTACT ENGINEER IF SITE CONDITIONS EXISTING THAT PREVENT A TYPICAL CONSTRUCTION PER PLAN.

THIS STRUCTURE HAS BEEN DESIGNED AS AN AGRICULTURAL BUILDING, RISK CATEGORY I. ADDITIONAL ENGINEERING AND PLAN DETAILS ARE REQUIRED TO BE USED AS A RISK CATEGORY II STRUCTURE.

## GENERAL NOTES

1. ALL CONCRETE WORK SHALL BE 3,000 P.S.I. AT 28 DAYS.
2. MINIMUM SOIL BEARING SHALL BE ASSUMED AT 2,000 P.S.F.
3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLA. BLDG. CODE 2023 8TH EDITION AND ASCE 7-22.
4. 22" WIND CORDS FOR AN ULTIMATE WIND SPEED OF 140 MPH AND GREATER. THESE PLANS INCLUDE DESIGN FOR ALL WIND SPEEDS UP TO AND INCLUDING 160 MPH ULTIMATE WIND SPEED.
5. ALL SIDING AND ROOFING TO MINIMUM OF 26 GAUGE ATTACHED TO THE COLUMNS AS SHOWN AND CONSIDERED TO BE A MIN. OF 3 SPAN.
6. FOR ZONE LOCATIONS SEE ASCE 7-22, THE VALUE OF "S" SHALL BE A MINIMUM OF 3'-0". FOR ZONE LOADING SEE COMPONENTS AND CLADDING LOADING CHARTS THIS SHEET.
7. DESIGN LOADINGS:
  - a. DEAD LOAD = 5 PSF
  - b. ROOF LIVE LOAD = 20 PSF
  - c. WIND LOAD = PER TABLE
8. DOOR AND WINDOW DATA: SEE TABLE THIS SHEET.
9. ALL WINDOWS AND MAIN DOORS MAY USE 1/4"x1" LONG TEK SCREWS IN LIEU OF THE WOOD SCREWS WHEN CONNECTING THE UNITS TO METAL FRAMING. FOLLOW THE MANUFACTURER'S SPECIFICATIONS FOR LOCATING CONNECTORS.
10. TYPE OF CONSTRUCTION                      TYPE II-B
11. BUILDING CATEGORY                      II
12. ADDITIONAL BRACES REQUIRED ONLY REQUIRED WITH WIND SPEEDS GREATER THAN OR EQUAL TO 150 MPH OR AS CALLED OUT ON PLANS.
13. ALL WELDS ARE CONTINUOUS WELDS DONE AT THE FACTORY.
14. MISSION METALS MANUFACTURING IS NOT RESPONSIBLE FOR FAILURES OR OMISSIONS CAUSED BY THE USER. MISSION METALS MANUFACTURING, FRAMEWORK, METAL SIDING, METAL ROOFING, FASTENERS, DOORS, WINDOWS, SEALANTS, CLOSURES AND OTHER METAL BUILDING ACCESSORIES. THE LIMITED WARRANTY ALSO DOES NOT COVER USING THE MATERIALS IN A MANNER THAT THEY ARE NOT DESIGNED OR ENGINEERED FOR. MODIFICATION OF UNCONTROLLABLE EVENTS "ACT OF GOD" SUCH AS TORNADOES, FLOODS OR HURRICANES ARE OUTSIDE THE DESIGN PARAMETERS OF THE LIMITED WARRANTY.

NOTE TO INSTALLER

1. INSTALLER SHALL ADD LATERAL BRACING DURING THE ERECTION PROCESS TO PREVENT BAR JOIST MOVEMENT.

| COMPONENTS AND CLADDING (exp=C, gcpl=0.00 (Open)) |                |       |       |                |                  |       |       |
|---------------------------------------------------|----------------|-------|-------|----------------|------------------|-------|-------|
| VELOCITY<br>ULTIMATE                              | PRESSURE (PSF) |       |       |                |                  |       |       |
|                                                   | ZONE           |       |       |                |                  |       |       |
|                                                   | ROOF           |       |       | WALLS          |                  |       |       |
|                                                   | 1              | 2     | 3     | 4/5 AVG NORMAL | 4/5 AVG PARALLEL |       |       |
| 140 MPH                                           | -17.4          | -47.8 | -54.3 | +18.4          | -25.1            | +18.4 | -25.1 |
| 150 MPH                                           | -19.9          | -54.9 | -62.3 | +21.2          | -28.9            | +21.2 | -28.9 |
| 160 MPH                                           | -22.7          | -62.4 | -70.9 | +24.1          | -32.8            | +24.1 | -32.8 |

| COMPONENTS AND CLADDING (exp=C, gcpl=+/-0.18 (Enclosed)) |                |       |       |                 |                   |                        |
|----------------------------------------------------------|----------------|-------|-------|-----------------|-------------------|------------------------|
| VELOCITY<br>ULTIMATE                                     | PRESSURE (PSF) |       |       |                 |                   |                        |
|                                                          | ZONE           |       |       | WALLS           |                   |                        |
|                                                          | 1              | 2     | 3     | 4/5 AVG. NORMAL | 4/5 AVG. PARALLEL | 4/5 AVG. PERPENDICULAR |
| 140 MPH                                                  | -21.3          | -51.7 | -58.2 | +22.1           | -28.7             | +22.1                  |
| 150 MPH                                                  | -24.4          | -59.3 | -66.8 | +22.3           | -32.9             | +22.3                  |
| 160 MPH                                                  | -27.8          | -67.5 | -76.0 | +28.9           | -37.4             | +28.9                  |

|                                                                    |                |       |       |                |                  |       |       |
|--------------------------------------------------------------------|----------------|-------|-------|----------------|------------------|-------|-------|
| 170 MPH                                                            | -55.5          | -74.5 | -55.5 | -51.5          | -41.1            | -51.5 | -41.1 |
| COMPONENTS AND CLADDING (exp=C, gcpl=+/-0.55 (Partially Enclosed)) |                |       |       |                |                  |       |       |
| VELOCITY<br>ULTIMATE                                               | PRESSURE (PSF) |       |       |                |                  |       |       |
|                                                                    | ROOF           |       |       | WALLS          |                  |       |       |
|                                                                    | 1              | 2     | 3     | 4/5 AVG NORMAL | 4/5 AVG PARALLEL |       |       |
| 140 MPH                                                            | -29.3          | -59.7 | -66.3 | +30.2          | -36.7            | +30.2 | -36.7 |
| 150 MPH                                                            | -33.7          | -68.6 | -76.1 | +34.7          | -42.1            | +34.7 | -42.1 |
| 160 MPH                                                            | -38.3          | -78.0 | -86.5 | +39.4          | -47.9            | +39.4 | -47.9 |



DESIGN STATEMENT:

THESE PLANS WERE DESIGNED FOLLOWING THE 2023 8TH EDITION FLORIDA BUILDING CODE AND ASCE 7-22, INCLUDING CHAPTER 16 ON STRUCTURAL DESIGN. THIS STRUCTURE HAS BEEN DESIGNED WITH AN MINIMUM ULTIMATE WIND SPEED OF 140 MPH, (3 SECOND GUST) IN WIND EXPOSURE CATEGORY "C". THIS STRUCTURE HAS BEEN DESIGNED AS RISK CATEGORY I. THE COMPONENTS AND CLADDING WERE DESIGNED BASED THE INCLUDED TABLE DESIGN PRESSURES.

ENGINEERING • PLANNING • PERMITTING

| REVISIONS:                                                                          |  | DATE                                                                                                                                                                                                            | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
|-------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------|------|----|-------------|
|  |  | ENGINEERED PERMITS INC.<br>311 SOUTH WOODLAND BLVD.<br>SUITE A<br>DELAND, FL 32720<br>PHONE: 386-734-0830<br>FAX: 386-734-8226<br>CERT NO. 26298<br>EMAIL: <a href="mailto:epi@willing.net">epi@willing.net</a> |    |             |      |    |             |
|                                                                                     |  |                                                                                                                                                                                                                 |    |             |      |    |             |
|                                                                                     |  |                                                                                                                                                                                                                 |    |             |      |    |             |
|                                                                                     |  |                                                                                                                                                                                                                 |    |             |      |    |             |

PROJECT: MISSION METALS MANUFACTURING

SHEET TITLE: STEEL BAR JOIST  
OPEN STORAGE BUILDING

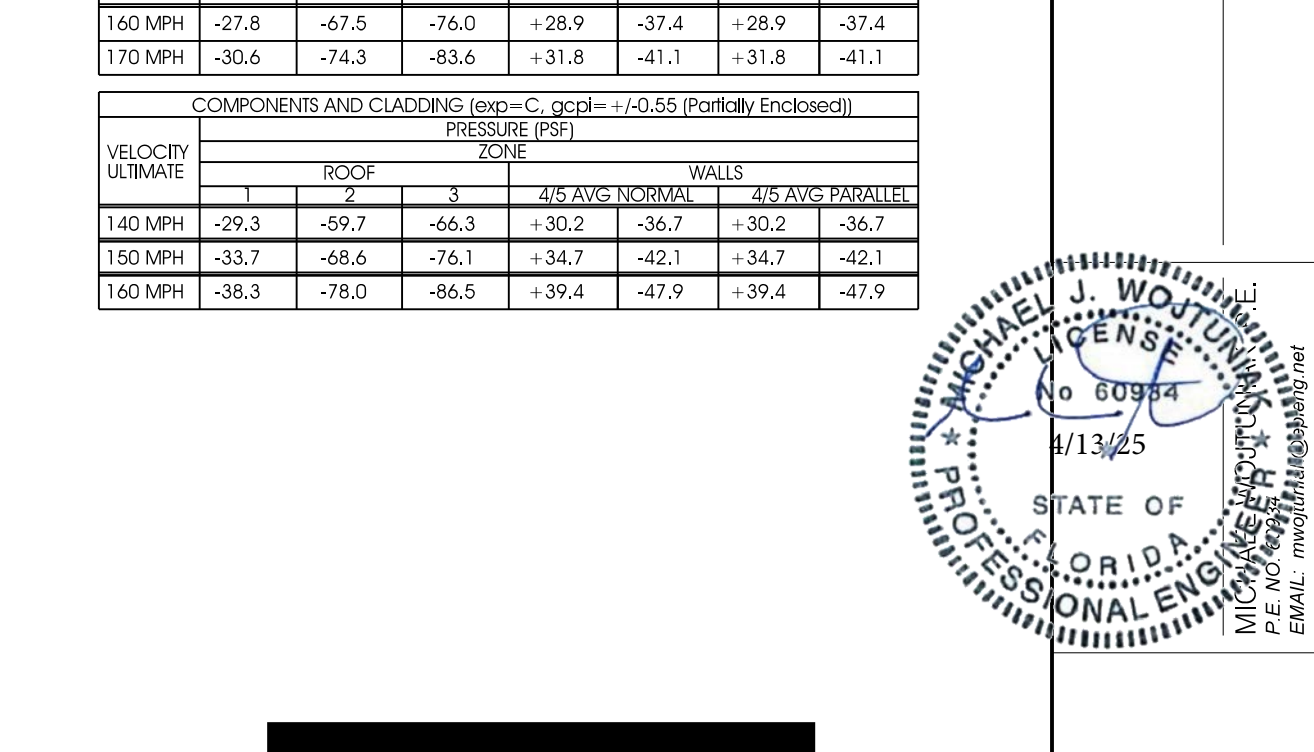
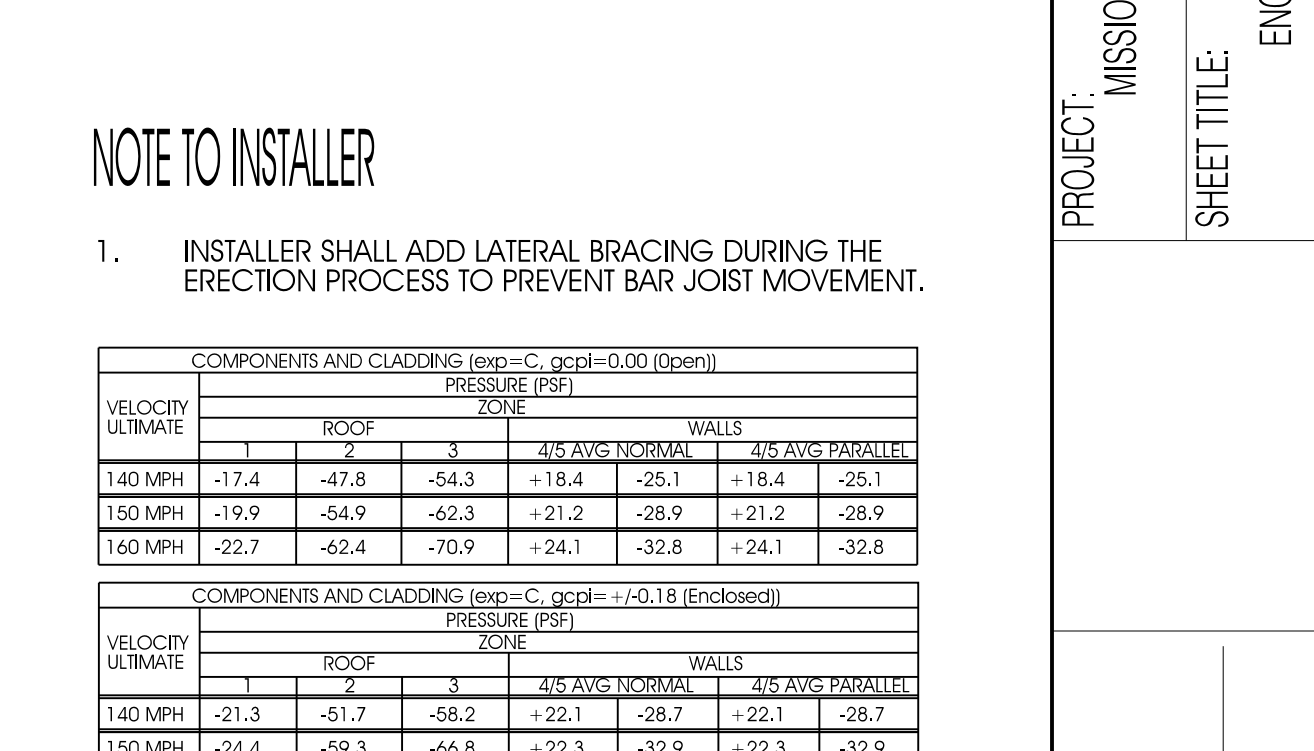
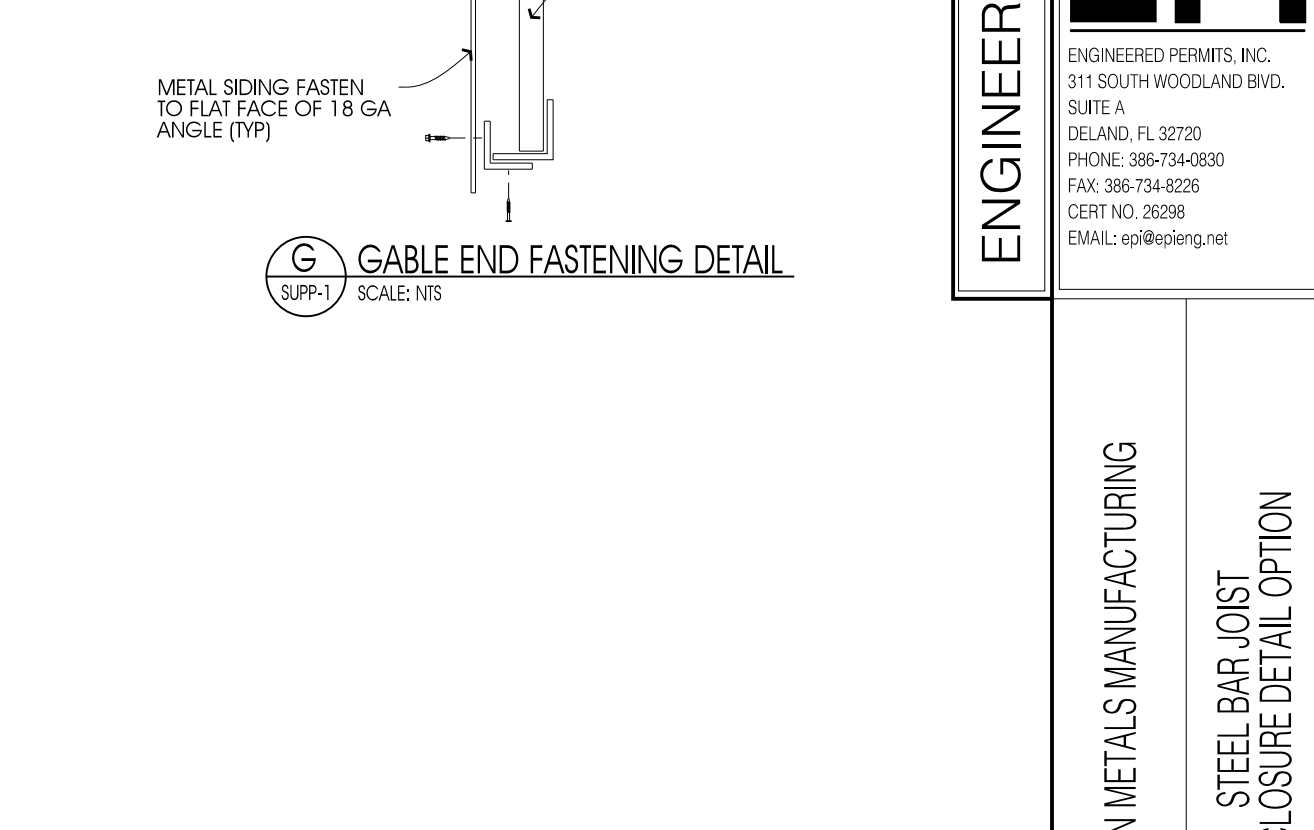
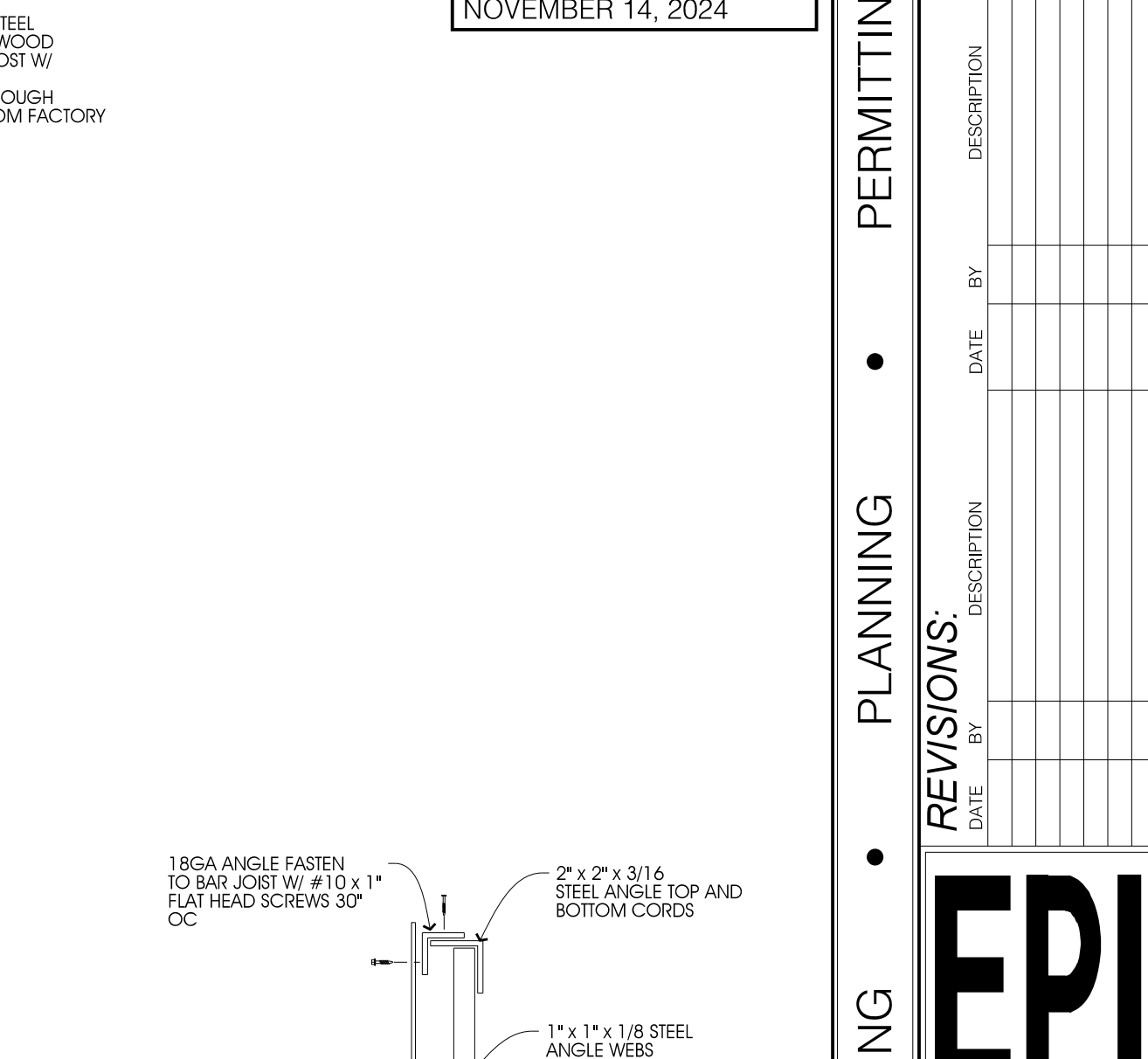
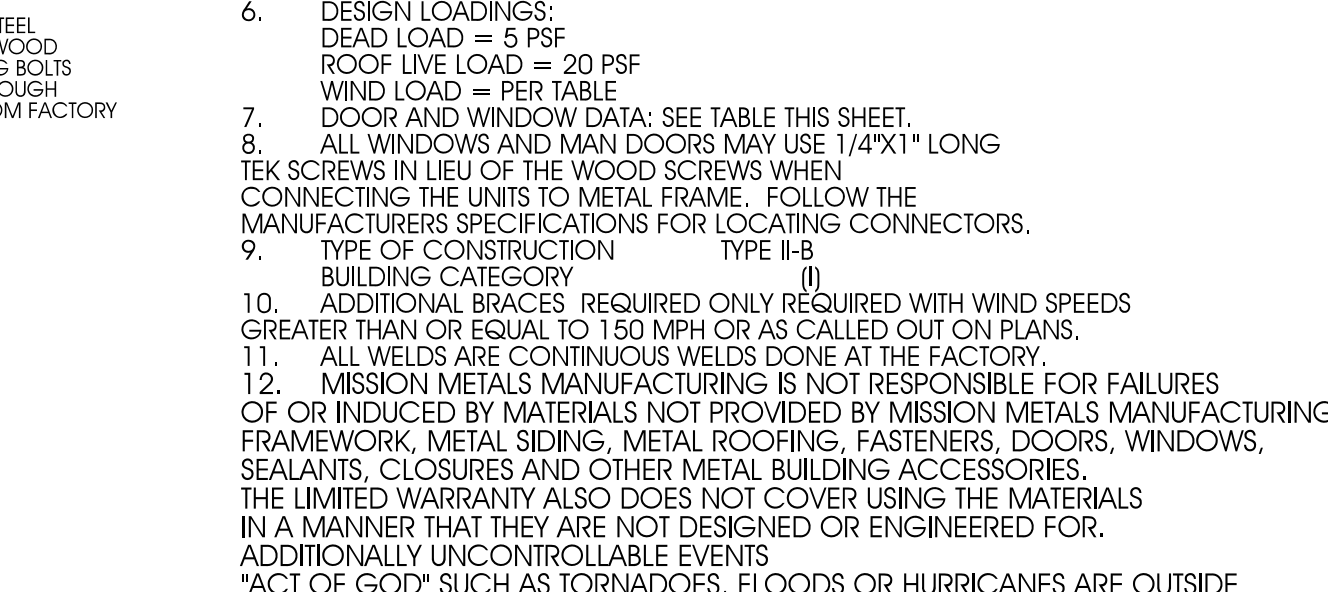
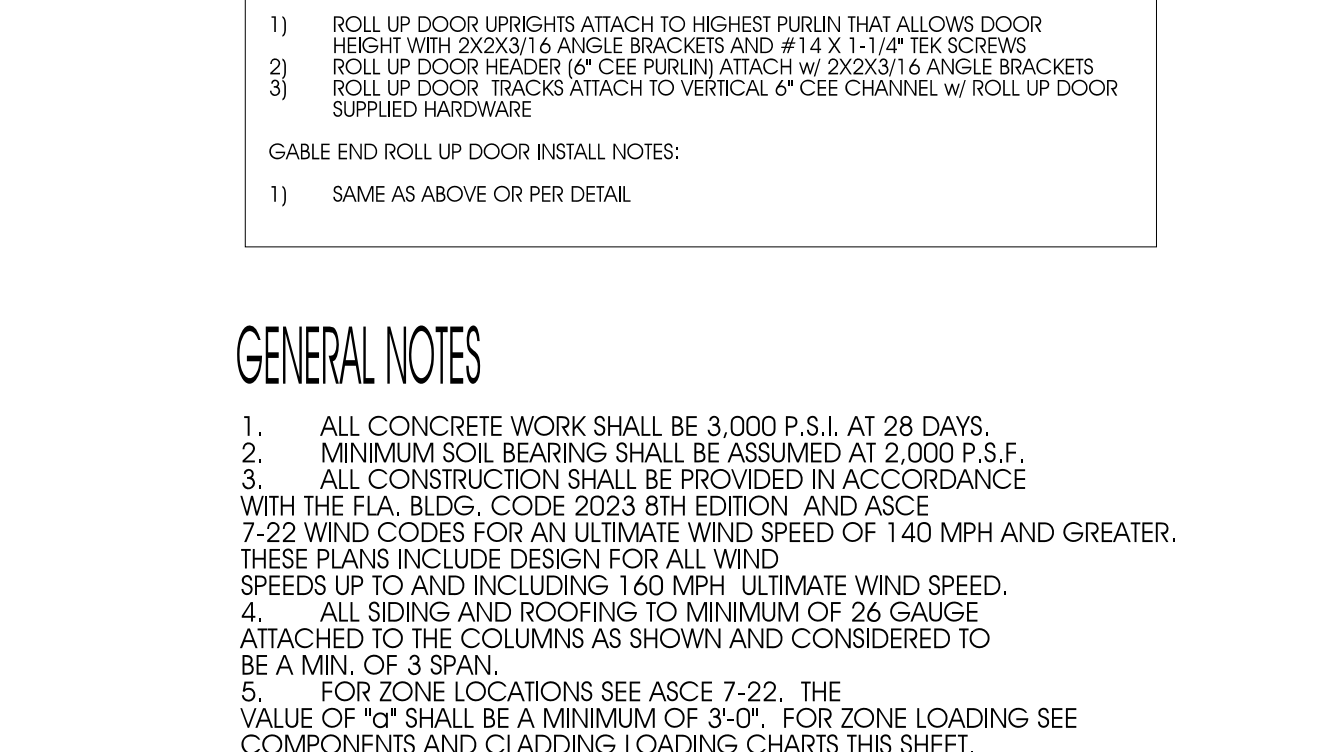
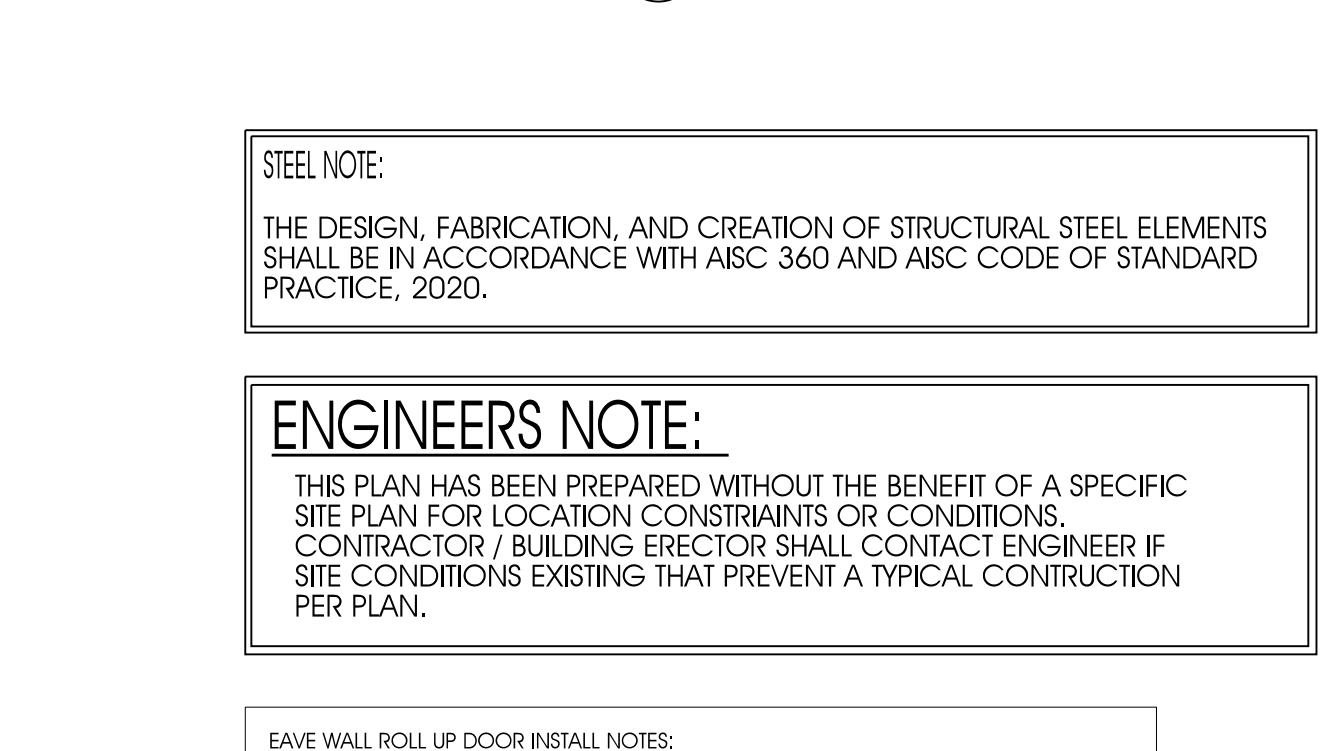
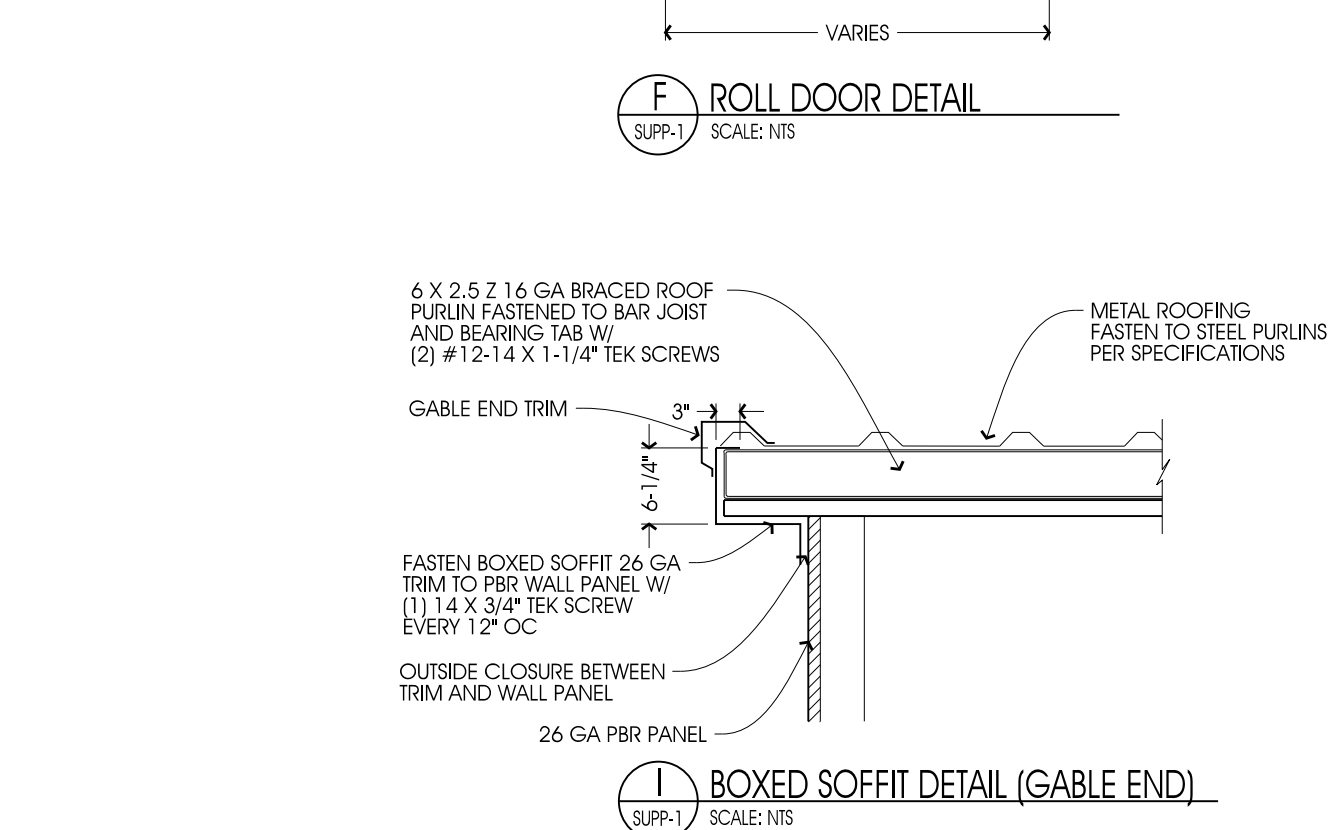
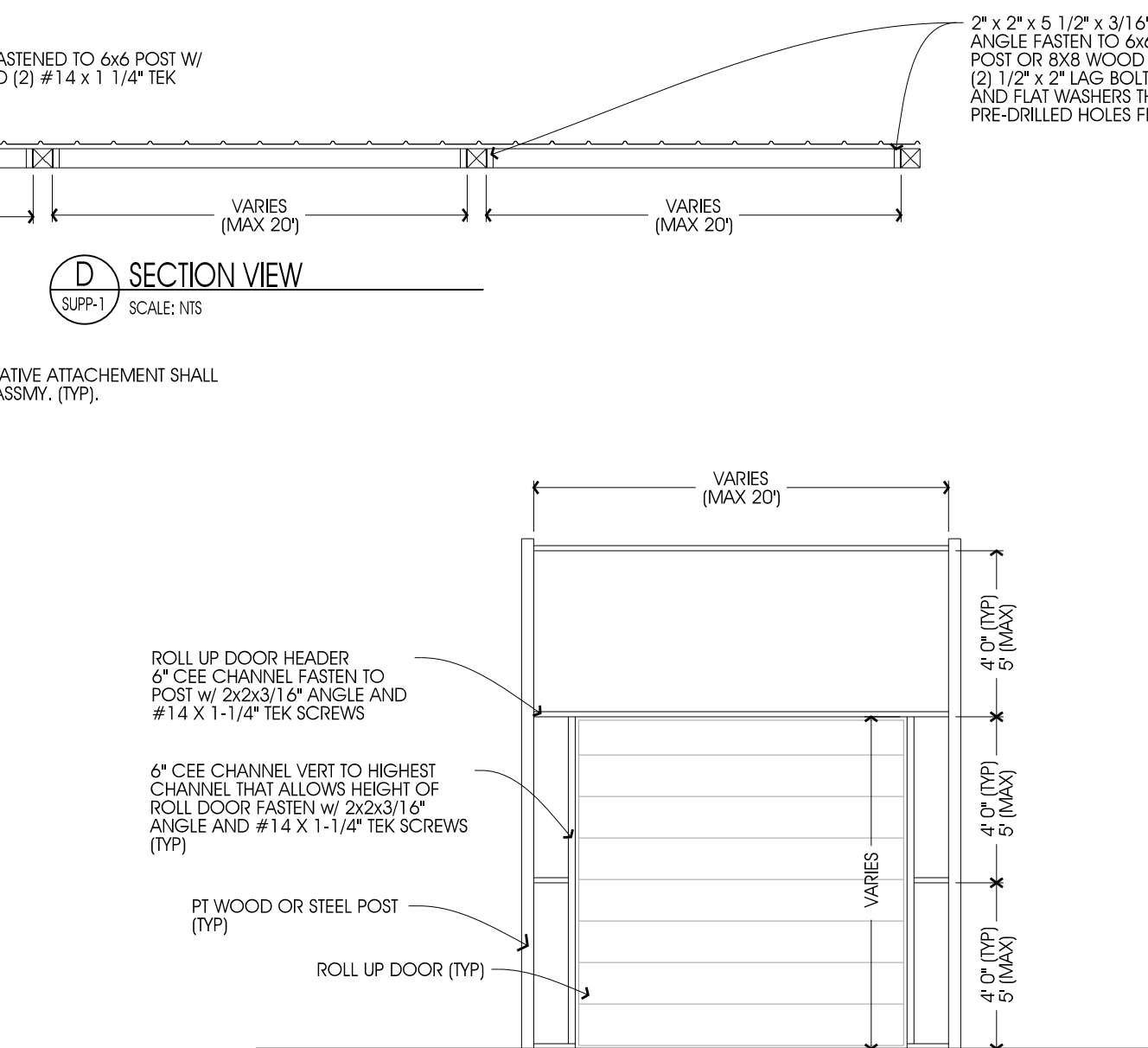
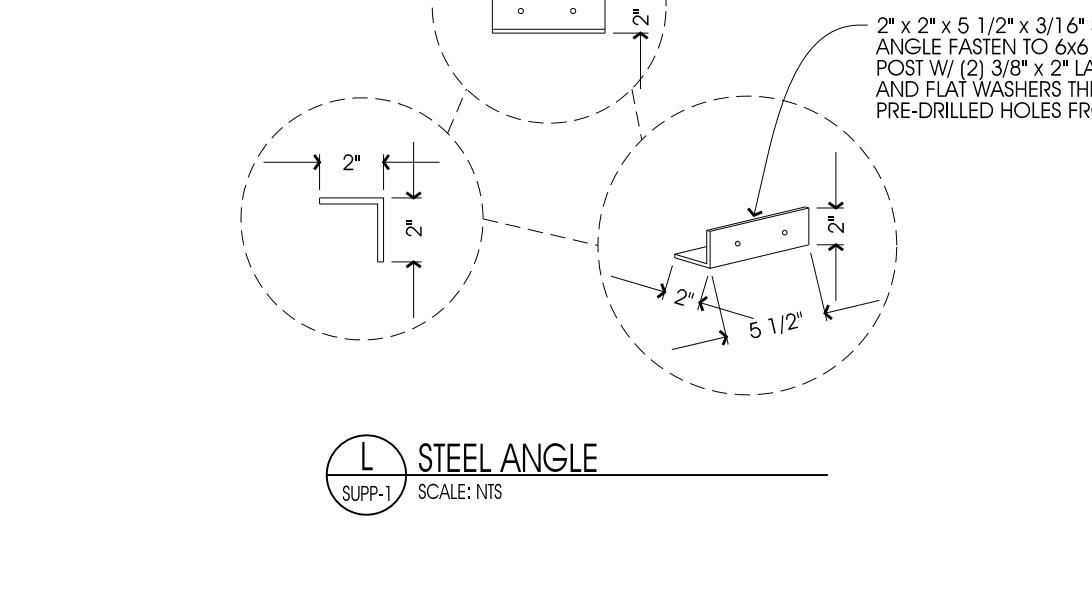
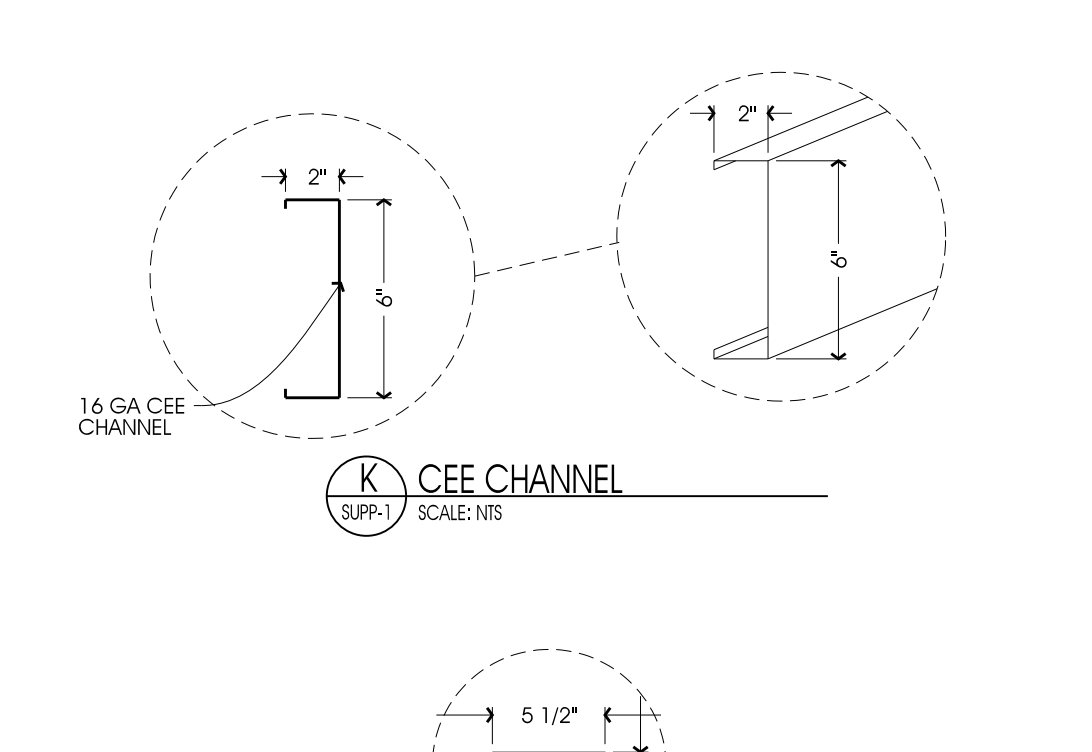
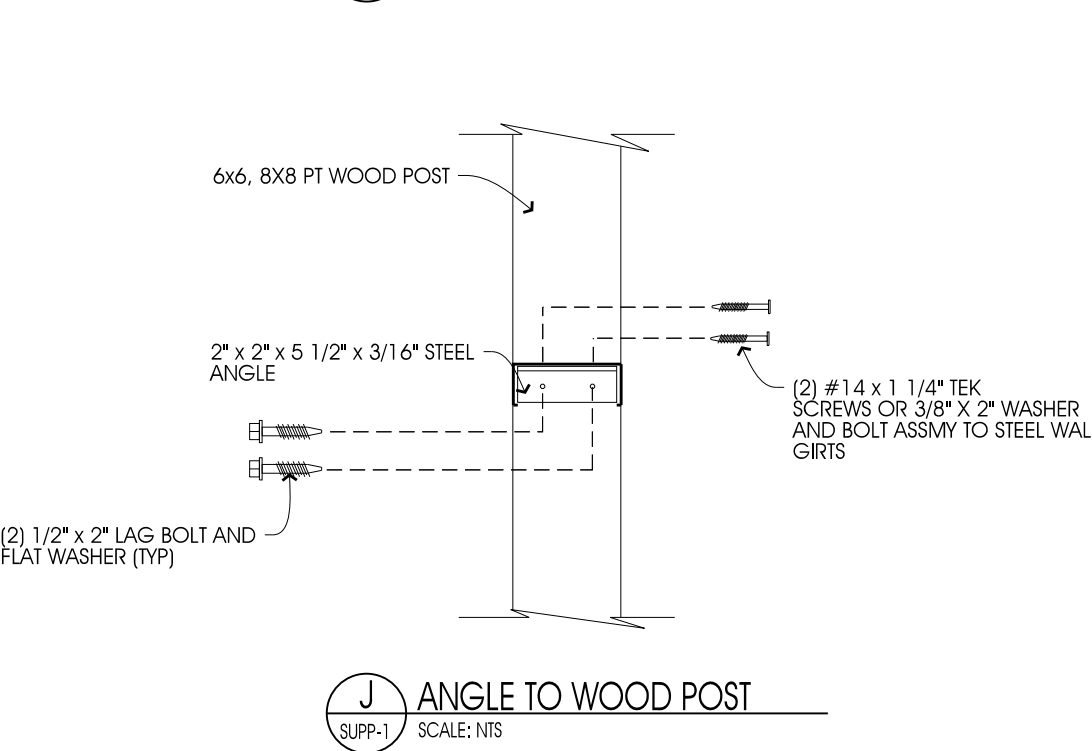
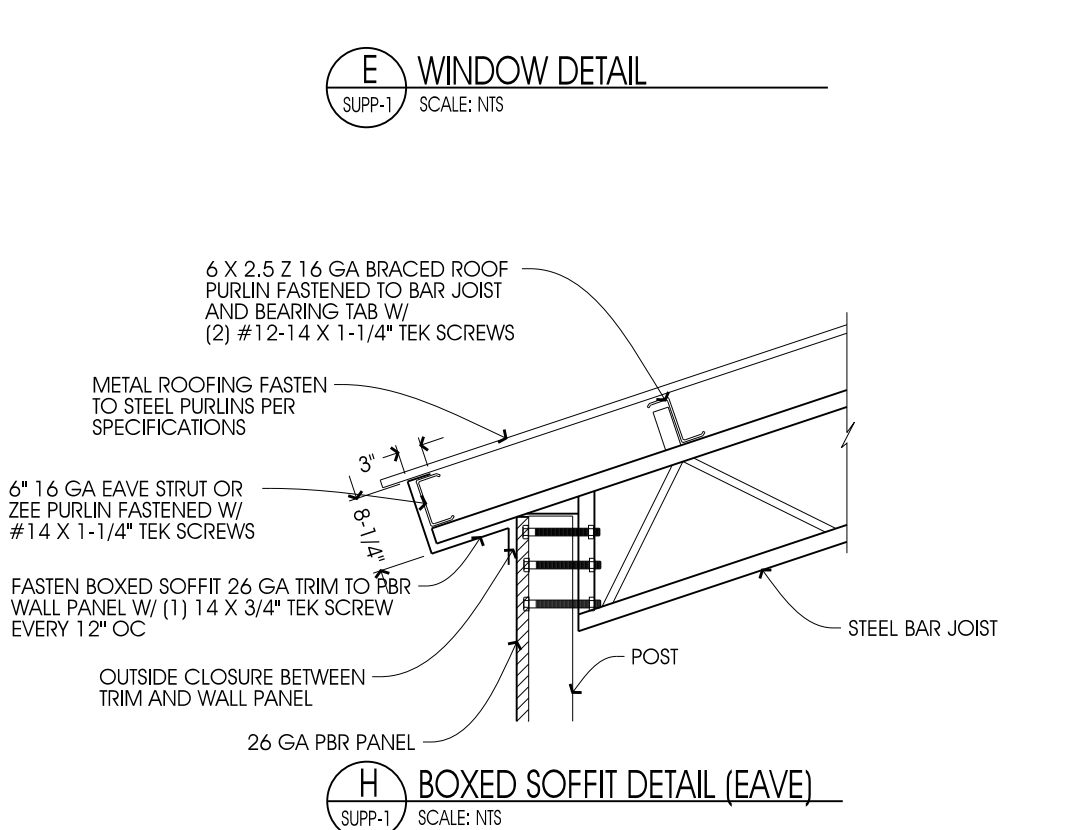
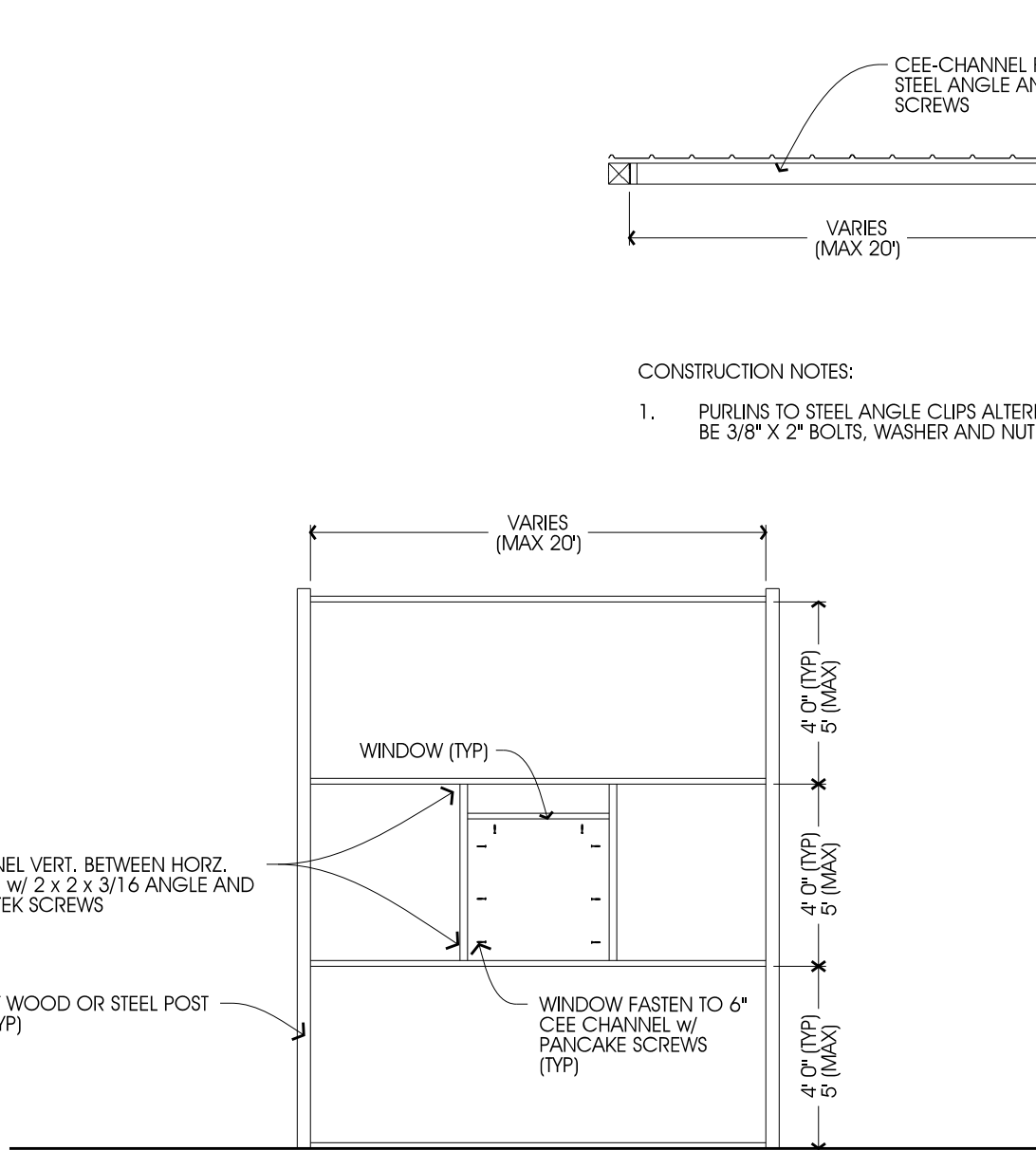
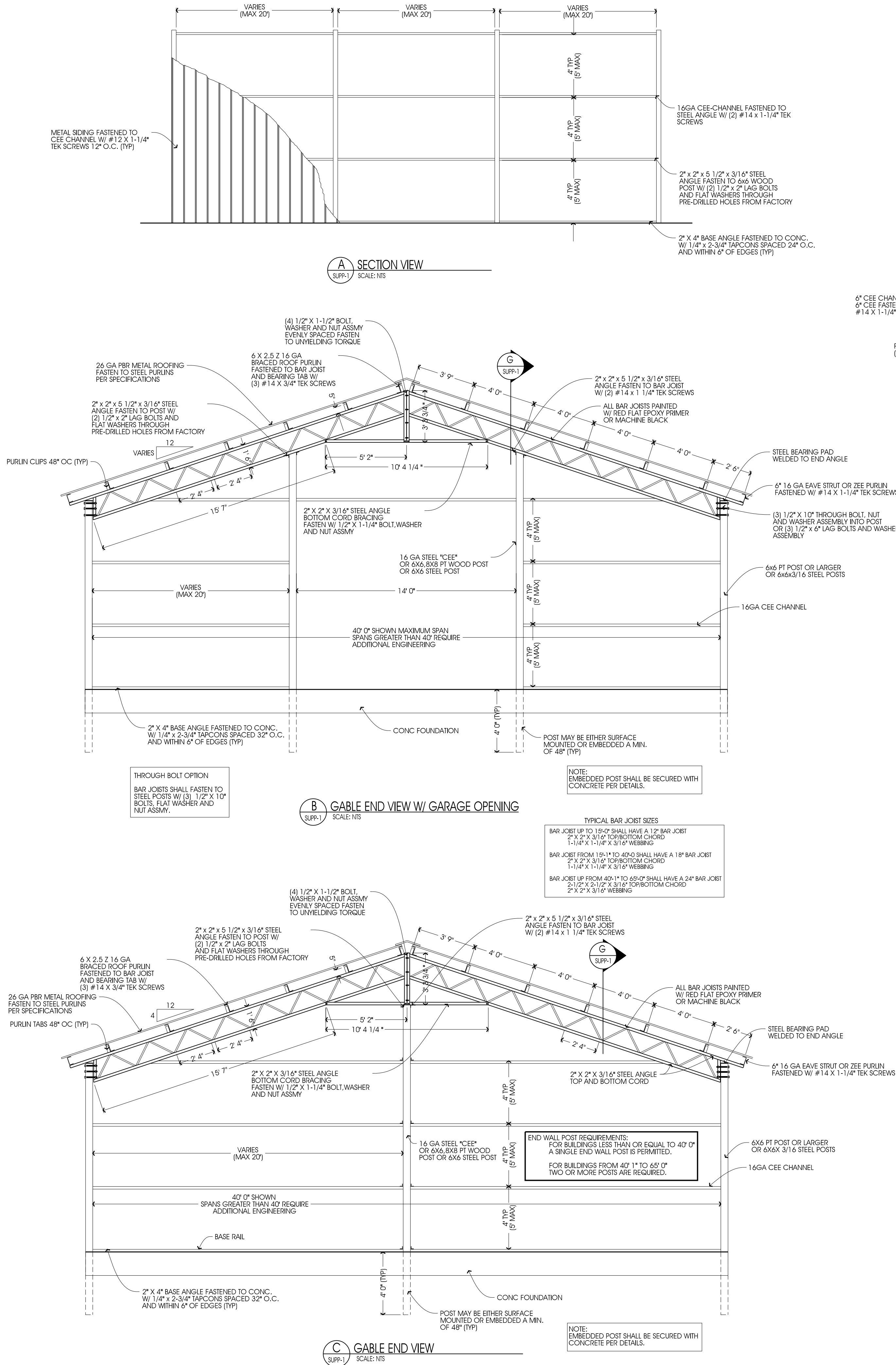
SHEET NO.

S-1

DATE: 4/13/2025

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OVERALL REVISION DATE  
NOVEMBER 14, 2024

ENGINEERING • PLANNING • PERMITTING

REVISIONS:

| NO. | DATE | DESCRIPTION | BY |
|-----|------|-------------|----|
| 1   |      |             |    |
| 2   |      |             |    |
| 3   |      |             |    |
| 4   |      |             |    |
| 5   |      |             |    |
| 6   |      |             |    |
| 7   |      |             |    |
| 8   |      |             |    |
| 9   |      |             |    |
| 10  |      |             |    |

**EPI**  
ENGINEERED PERMITS, INC.  
311 SOUTH WOODLAND BLVD.  
SUITE 4  
DELAND, FL 32720  
PHONE: 386-734-0830  
FAX: 386-734-8226  
CST# NO. 28298  
EMAIL: ep@epimfg.net

PROJECT: MISSION METALS MANUFACTURING

SHEET TITLE: STEEL BAR JOIST ENCLOSURE DETAIL OPTION

STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
MICHAEL J. WOJCIUK  
No. 60984  
4/13/25

SHEET NO.  
**SUPP-1**  
DATE: 4/13/2025

**STEEL NOTE:**

THE DESIGN, FABRICATION, AND CREATION OF STRUCTURAL STEEL ELEMENTS SHALL BE IN ACCORDANCE WITH AISC 360 AND AISC CODE OF STANDARD PRACTICE, 2020.

**ENGINEERS NOTE:**

THIS PLAN HAS BEEN PREPARED WITHOUT THE BENEFIT OF A SPECIFIC SITE PLAN FOR LOCATION CONSTRAINTS OR CONDITIONS. CONTRACTOR / BUILDING ERECTOR SHALL CONTACT ENGINEER IF SITE CONDITIONS EXISTING THAT PREVENT A TYPICAL CONSTRUCTION PER PLAN.

**EAVE WALL ROLL UP DOOR INSTALL NOTES:**

- 1) ROLL UP DOOR UPRIGHTS ATTACH TO HIGHEST PURLIN THAT ALLOWS DOOR HEIGHT WITH 2X2X3/16 ANGLE BRACKETS AND #14 X 1-1/4" TEK SCREWS
- 2) ROLL UP DOOR HEADER (6" CEE PURLIN) ATTACH W/ 2X2X3/16 ANGLE BRACKETS
- 3) ROLL UP DOOR TRACKS ATTACH TO VERTICAL 6" CEE CHANNEL W/ ROLL UP DOOR SUPPLIED HARDWARE

**GABLE END ROLL UP DOOR INSTALL NOTES:**

- 1) SAME AS ABOVE OR PER DETAIL

**GENERAL NOTES**

1. ALL CONCRETE WORK SHALL BE 3,000 P.S.I. AT 28 DAYS.
2. MINIMUM SOIL BEARING SHALL BE ASSUMED AT 2,000 P.S.F.
3. ALL CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH THE FLA. BLDG. CODE 2023 8TH EDITION, AND ASCE 7-22 WIND CODES FOR AN ULTIMATE WIND SPEED OF 140 MPH AND GREATER. THESE PLANS INCLUDE DESIGN FOR ALL WIND SPEEDS UP TO AND INCLUDING 160 MPH ULTIMATE WIND SPEED.
4. ALL SIDING AND ROOFING TO MINIMUM OF 26 GAUGE ATTACHED TO THE COLUMNS AS SHOWN AND CONSIDERED TO BE A MIN. OF 3 SPAN.
5. FOR ZONE LOCATIONS SEE ASCE 7-22. THE VALUE OF "G" SHALL BE A MINIMUM OF 3'-0". FOR ZONE LOADING SEE COMPONENTS AND CLADDING LOADING CHARTS THIS SHEET.
6. DESIGN LOADINGS:  
DEAD LOAD = 5 PSF  
ROOF LIVE LOAD = 20 PSF  
WIND LOAD = PER TABLE  
DOOR AND WINDOW DATA: SEE TABLE THIS SHEET.
7. ALL WINDOWS AND MAN DOORS MAY USE 1/4"x1" LONG TEK SCREWS IN LIEU OF THE WOOD SCREWS WHEN CONNECTING THE UNITS TO METAL FRAME. FOLLOW THE MANUFACTURERS SPECIFICATIONS FOR LOCATING CONNECTORS.
8. TYPE OF CONSTRUCTION TYPE II-B BUILDING CATEGORY
9. ADDITIONAL BRACES: REQUIRED ONLY REQUIRED WITH WIND SPEEDS GREATER THAN OR EQUAL TO 150 MPH OR AS CALLED OUT ON PLANS.
10. ALL WELDS ARE CONTINUOUS WELDS DONE AT THE FACTORY.
11. MISSION METALS MANUFACTURING IS NOT RESPONSIBLE FOR FAILURES OF OR INDUCED BY MATERIALS NOT PROVIDED BY MISSION METALS MANUFACTURING: FRAMEWORK, METAL SIDING, METAL ROOFING, FASTENERS, DOORS, WINDOWS, SEALANTS, CLOSURES AND OTHER METAL BUILDING ACCESSORIES. THE LIMITED WARRANTY ALSO DOES NOT COVER USING THE MATERIALS IN A MANNER THAT THEY ARE NOT DESIGNED OR ENGINEERED FOR. ADDITIONALLY UNCONTROLLABLE EVENTS.
12. "ACT OF GOD" SUCH AS TORNADOES, FLOODS OR HURRICANES ARE OUTSIDE THE DESIGN PARAMETERS OF THE LIMITED WARRANTY.

**NOTE TO INSTALLER**

1. INSTALLER SHALL ADD LATERAL BRACING DURING THE ERECTION PROCESS TO PREVENT BAR JOIST MOVEMENT.

| COMPONENTS AND CLADDING (exp=C, gcri=0.00 (Open)) |       |       |       |       |                |                        |
|---------------------------------------------------|-------|-------|-------|-------|----------------|------------------------|
| PRESSURE (PSF)                                    |       |       |       |       |                |                        |
| ZONE                                              |       |       |       |       |                |                        |
| VELOCITY ULTIMATE                                 |       | ROOF  | 2     | 3     | 4/5 AVG NORMAL | WALLS 4/5 AVG PARALLEL |
| 140 MPH                                           | -17.4 | -47.8 | -54.3 | +18.4 | -25.1          | +18.4                  |
| 150 MPH                                           | -19.9 | -54.9 | -62.3 | +21.2 | -28.9          | +21.2                  |
| 160 MPH                                           | -22.7 | -62.4 | -70.9 | +24.1 | -32.8          | +24.1                  |

| COMPONENTS AND CLADDING (exp=C, gcri=+/-0.18 (Enclosed)) |       |       |       |       |                |                        |
|----------------------------------------------------------|-------|-------|-------|-------|----------------|------------------------|
| PRESSURE (PSF)                                           |       |       |       |       |                |                        |
| ZONE                                                     |       |       |       |       |                |                        |
| VELOCITY ULTIMATE                                        |       | ROOF  | 2     | 3     | 4/5 AVG NORMAL | WALLS 4/5 AVG PARALLEL |
| 140 MPH                                                  | -21.3 | -51.7 | -58.2 | +22.1 | -28.7          | +22.1                  |
| 150 MPH                                                  | -24.4 | -59.3 | -66.8 | +22.3 | -32.9          | +22.3                  |
| 160 MPH                                                  | -27.8 | -67.5 | -76.0 | +28.9 | -37.4          | +28.9                  |
| 170 MPH                                                  | -30.6 | -74.3 | -83.6 | +31.8 | -41.1          | +31.8                  |

| COMPONENTS AND CLADDING (exp=C, gcri=+/-0.55 (Partially Enclosed)) |       |       |       |       |                |                        |
|--------------------------------------------------------------------|-------|-------|-------|-------|----------------|------------------------|
| PRESSURE (PSF)                                                     |       |       |       |       |                |                        |
| ZONE                                                               |       |       |       |       |                |                        |
| VELOCITY ULTIMATE                                                  |       | ROOF  | 2     | 3     | 4/5 AVG NORMAL | WALLS 4/5 AVG PARALLEL |
| 140 MPH                                                            | -29.3 | -59.7 | -66.3 | +30.2 | -36.7          | +30.2                  |
| 150 MPH                                                            | -33.7 | -68.6 | -76.1 | +34.7 | -42.1          | +34.7                  |
| 160 MPH                                                            | -38.3 | -78.0 | -86.5 | +39.4 | -47.9          | +39.4                  |



**DESIGN STATEMENT:**

THESE PLANS WERE DESIGNED FOLLOWING THE 2023 8TH EDITION FLORIDA BUILDING CODE AND ASCE 7-22. INCLUDING CHAPTER 16 ON STRUCTURAL DESIGN. THIS STRUCTURE HAS BEEN DESIGNED WITH AN MINIMUM ULTIMATE WIND SPEED OF 140 MPH. (3 SECOND GUST) IN WIND EXPOSURE CATEGORY "C". THIS STRUCTURE HAS BEEN DESIGNED AS RISK CATEGORY I. THE COMPONENTS AND CLADDING WERE DESIGNED BASED THE INCLUDED TABLE DESIGN PRESSURES.

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