

Each truss repair drawing referenced below has been prepared by me or under my direct supervision based on (1) the truss design criteria and requirements ("design criteria") in the original truss design drawing identified as follows:

Original Job: QU02697_RESERVE_BLDG F1_REFRESHED_11252024 - 1224831

and (2) to address specific items concerning each truss that are described in each repair drawing, both as provided by **Quality Line Truss**.

The repairs for each truss have been designed to the original design criteria set forth in the referenced truss design drawings. Each truss repair drawing relies solely upon information provided by others. We have made no investigation of the specific items requiring repair, job site conditions or factors that may have necessitated the repairs or may affect the truss. Any variance from the information provided will render the affected truss repair drawing inapplicable.

Listed below are the truss repair drawing(s) included in this package and covered by this seal:

Job: QU02697_RESERVE_BLDG F1_REFRESHED_11252024 - 1243065
F03, QU02697_RESERVE_BLDG F1_REFRESHED_11252024

Any location identification is for file reference only. No determination of the appropriateness of original design criteria for any specific project has been made in preparing the truss repair drawings.

Please refer to original individual truss design drawings for specific design criteria.

07/28/2025



Anish Kekre (MO, 2024044263)

My license expiration date for the state of MO is 12/31/2026.

IMPORTANT NOTE: The responsibility of the engineer sealing this package, as a Truss Engineer, is solely for the design of repairs for individual trusses to the original design criteria set forth in the referenced truss design drawings. The truss design criteria have not been verified as appropriate for any particular building, project or use. Adequacy and suitability of design criteria and requirements for the truss designs for any specific project are the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

DESIGN NOTES

1. The Truss Design Drawing(s) provided with these Design Notes have been prepared under and are subject to ANSI / TPI 1 published by the Truss Plate Institute, www.tpinst.org. Capitalized terms have the meanings provided in ANSI / TPI 1.
2. Copies of each Truss Design Drawing shall be furnished to the installation contractor, Building Designer, Owner and all persons fabricating, handling, installing, bracing, or erecting the trusses.

DESIGN LIMITATIONS

3. The Truss Design Drawing is based upon specifications provided by the Building Designer in accordance with ANSI / TPI 1. Neither the Truss Designer, Eagle, nor an engineer who seals this design (if any) assumes any responsibility for the adequacy or accuracy of specifications provided by the Building Designer.
4. The Building Designer is solely responsible for the suitability based upon the Truss Design Drawing and shall be responsible for reviewing and verifying that the information shown is in general conformance with the design of the Building.
5. Each Truss Design Drawing is for the individual building component (a truss). A seal on the Truss Design Drawing indicates acceptance of professional engineering responsibility solely for the individual truss.
6. Each Truss Design Drawing assumes trusses will be suitably protected from the environment.

HANDLING, INSTALLING, & BRACING

7. Refer to Building Component Safety Information (BCSI) for handling, installing, restraining and bracing trusses. Copies can be obtained from the Structural Building Components Association, www.sbcindustry.com.
8. Bracing shown on each Truss Design Drawing is for lateral support of individual truss components only to reduce buckling lengths. All temporary and permanent bracing, including lateral load and diagonal or cross bracing, are the responsibility, respectively, of the erector and Building Designer.
9. Eagle is not responsible for improper truss fabrication, handling, erection or bracing.
10. Compression chords shall be laterally braced by the roof or floor sheathing, directly attached, or have purlins provided at spacing shown, unless noted otherwise.

11. Bottom chord required bracing shall be at 10ft spacing or less, if no structural rated ceiling is installed, unless noted otherwise.
12. Strongbacking shall be installed on all parallel chord trusses, including flooring systems, to limit deflection and reduce vibration. Refer to BCSI-B7.
13. Never exceed the design loading shown. Never stack building or other materials on inadequately braced truss; refer to BCSI.
14. Concentration of construction loads greater than the design loads shall not be applied to the trusses at any time; refer to BCSI.
15. Trusses shall be handled with care prior to erection to avoid damage. Refer to BCSI for recommended truss handling and erection.

MATERIALS & FABRICATION

16. Lumber moisture content shall be 19% or less at the time of fabrication unless noted otherwise.
17. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
18. Unless expressly noted, the truss designs are not applicable for use with fire retardant or preservative treated lumber.
19. Plates shall be applied on both faces of truss at each joint and embedded fully. Knots and wane at joint locations shall be regulated in accordance with ANSI / TPI 1.
20. For a specified plate gauge and grade, the specified size is a minimum.
21. Connections not shown are the responsibility of others.
22. Adequate support shall be provided to resist gravity, lateral and uplift loads.
23. For 4X2 truss orientation, locate plates 0 - 1/16" from outside the edge of the truss.
24. Fabrication of truss shall be in accordance with ANSI / TPI 1.

OTHER NOTES

25. Camber is a non-structural consideration and is the responsibility of truss fabricator.
26. Do not cut or alter any truss member or plate without prior approval from a professional engineer.
27. Lumber design values are in accordance with ANSI / TPI 1; lumber design values are by others.
28. Install specified hangers per manufacturer recommendations.

SYMBOLS

PLATE SIZE

3X4 - The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

-, /, I, Indicates required direction of slots; Reference "Joint Details" for more information.

20 Ga Gr40 connectors required

3X10-20HS - 20 Ga Gr60 connectors required

8X10-18HS - 18 Ga Gr60 connectors required

LATERAL BRACING

When this symbol shown, continuous lateral bracing is required on the member of the truss.



BEARING

Indicates location where bearings (supports) occur.



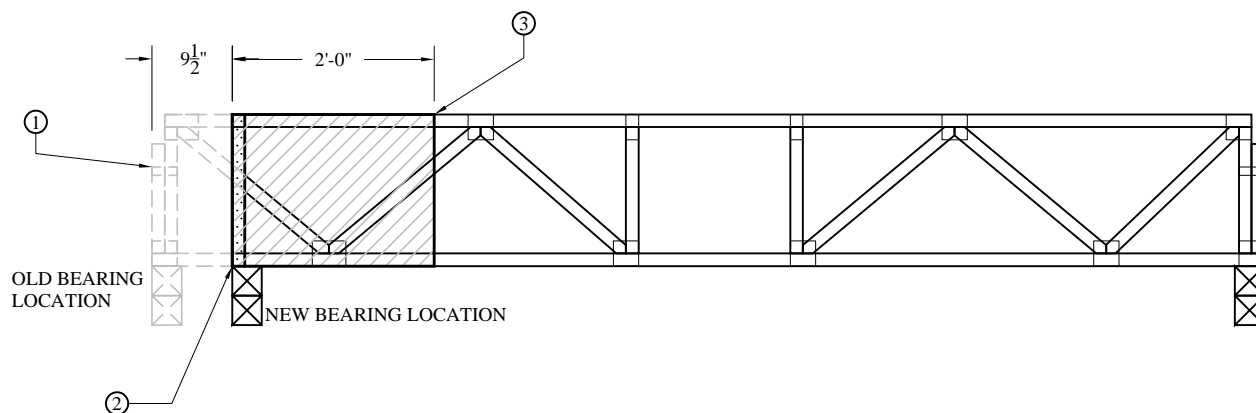
PLATE LOCATION & ORIENTATION

The plate shall be centered on joint and/or placed in accordance with the design drawing/QC full scale details.



REFERENCES

- ANSI / TPI 1:** National Design Standard for Metal Plate Connected Wood Trusses
- BCSI:** Building Component & Safety Information - Guide to Good Practice for Handling, Installing, Restraining, & Bracing of Metal Plate Connected Wood Trusses.
- NDS:** National Design Specification for Wood Construction
- ESR:** 1082 published by the International Code Council. www.icc-es.org



PROBLEM:

TRUSS STUBBED BACK 9.5" FROM THE LEFT END

SOLUTION:

1. REMOVE PORTION OF TRUSS AS SHOWN.
2. INSERT NEW 4 x 2 SYP-#1 MEMBER IN PLANE AS SHOWN, CUT AND FIT TIGHTLY.
3. ATTACH (2) 3/4" OSB TO TRUSS WITH (1) STAGGERED ROW OF (.131 x 3") COMMON NAILS, OR EQUIVALENT, AT 4" O.C. TO EVERY CONTACT MEMBER; STAGGER ROWS ON OPPOSING SIDES, ONE EACH SIDE.

F03

07/28/2025



NOTE:

1. FULLY SUPPORT TRUSS AND FLOOR/ROOF STRUCTURE BEFORE CUTTING AND REMOVING NECESSARY WEBS AND CHORDS AND ADDING NEW MEMBERS IN-PLANE TO ACHIEVE NEW TRUSS CONFIGURATION.
2. ONLY AFTER REPAIR HAS BEEN INSTALLED PROPERLY SHALL TEMPORARY SUPPORTS BE REMOVED.

SEE ORIGINAL TRUSS DESIGN DRAWING FOR INFORMATION NOT SHOWN