TEAGLE METAL

The truss designs referenced below have been prepared by me or under my direct supervision based on the truss design criteria and requirements ("design criteria") provided by **Quality Line Truss**.

These truss designs are intended for the fabrication of individual building components that will perform to the design criteria provided. Any variance from the design criteria will render the affected truss designs inapplicable.

Listed below are the truss designs included in this package and covered by this seal.

Job: QU03286_RESERVE_F2_REVISED 08122025 - 1244682 GE01, T03, T08

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

Please refer to individual truss designs for specific design criteria.



Arturo A. Hernandez (MO, 2006000095)

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 design of individual trusses as individual building components based upon design criteria provided by others and set forth in the referenced truss drawings. The truss design criteria for the components 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.

Empowering great component manufacturers.

DESIGN NOTES

- 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.
- 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 ANS1 / 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.
- 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

- 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.
- Eagle is not responsible for improper truss fabrication, handling, erection or bracing.
- Compression chords shall be laterally braced by the roof or floor sheathing, directly attached, or have purlins provided at spacing shown, unless noted otherwise.

- 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.
- 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.
- 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.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- 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.
- 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

- 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.
- 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.



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



Quality Line Truss Co., LLC 34593 S 4350 RD

Address 2 Adair, OK 74330 Truss:GE01

Job: QU03286_RESERVE_F2_REVISED 08

Date: 08/14/25 12:01:41

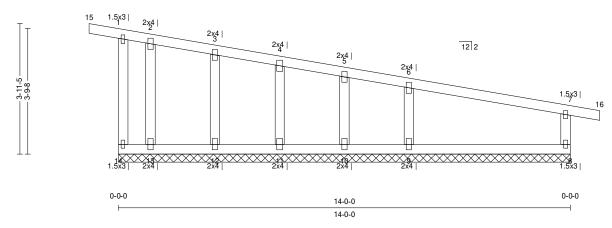
08/14/2025

HERNANDEZ

Page: 1 of 1

SPAN	PITCH	QTY	OHL	OHR	CANT L	CANT R	PLYS	SPACING	WGT/PLY	
14-0-0	-2/12	2	0-10-12	0-10-14	0-0-0	0-0-0	1	24 in	65 lbs	
	15.0.10									

0-10-12 14-0-0 0-10-14 14-0-0



All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General		CSI		Deflection	n	L/	(loc)	Allowed
TCLL: 20	Bldg Code:	IBC 2018/	TC:	0.23 (6-7)	Vert TL:	0.02 in	L/999	(8-9)	L/240
TCDL: 10		TPI 1-2014	BC:	0.13 (8-9)	Vert LL:	0 in	L/999	8	L/360
BCLL: 0	Rep Mbr:	No	Web:	0.29 (7-8)	Horz TL:	0 in			
BCDL: 10	Lumber D.O.L.	: 115 %							

Reaction

Brg Combo	Brg Width	Max React	Ave React	Max Grav Uplift	Max MWFRS Uplif	t Max C&C Uplift	Max Uplift	Max Horiz
1		381 lbs	90 plf		-96 lbs	-222 lbs	-222 lbs	-123 lbs

Material

TC: SYP#1 2x 4 BC: SYP#1 2x 4 Web: SYP#2 2x 4

Bracing

TC: Sheathed or Purlins at 6-3-0, Purlin design by Others. BC: Sheathed or Purlins at 10-0-0, Purlin design by Others.

Loads

1) This truss has been designed for the effects of balanced (20 psf) sloped roof snow loads in accordance with ASCE7 - 16 with the following user defined input: 20 psf GSL, Terrain C, Exposure (Ce = 1.0), Thermal (Ct = 1.00), DOL = 1.15. If the roof configuration differs from hip/gable, Building Designer shall verify snow loads.

- 2) This truss has not been designed for the effects of unbalanced snow loads.
- 3) This truss has been designed to account for the effects of ice dams forming at the eaves.
- 4) This truss has been designed for the effects of wind loads in accordance with ASCE7 16 with the following user defined input: 115 mph (Factored), Exposure
- C, Enclosed, Gable/Hip, Risk Category II, Overall Bldg Dims 25 ft x 60 ft, h = 15 ft, End Zone Truss, Both end webs considered. DOL = 1.60

Member Forces
Table indicates: Member ID, max CSI, max tension force, (max compression force). Only forces greater than 300lbs are shown in this table.

TC
BC
Web

Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) Gable requires continuous bottom chord bearing.
- 3) Gable webs placed at 24 "OC, U.N.O.
- 4) Attach gable webs with 2x4 20ga plates, U.N.O.
- 5) Bracing shown is for in-plane requirements. For out-of-plane requirements, refer to BCSI-B3 published by the SBCA.
- 6) The fabrication tolerance for this roof truss is 20% (Cq = 0.80).
- 7) A creep factor of 2.00 has been applied for this truss analysis.
- 8) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 9) Listed wind uplift reactions based on MWFRS & C&C loading.

WARNING: Verify all design parameters and follow all notes on this drawing and in the Eagle Metal Design Notes.

This design is for an individual building component (a truss), not a truss system, and is based only on parameters shown and provided by the Building Designer. The applicability of the design parameters must be verified by the Building Designer and should properly incorporate this design into the overall building design before use. Bracing shown is only to prevent buckling of individual truss web and/or chord members. Additional temporary and permanent bracing is always required to prevent collapse and provide stability. Design valid only when Eagle Metal connectors are used. Aseal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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Quality Line Truss Co., LLC 34593 S 4350 RD

Address 2 Adair, OK 74330

OHR

Truss:T03

Job: QU03286_RESERVE_F2_REVISED 08

WGT/PLY

Date: 08/14/25 12:01:42

SPACING

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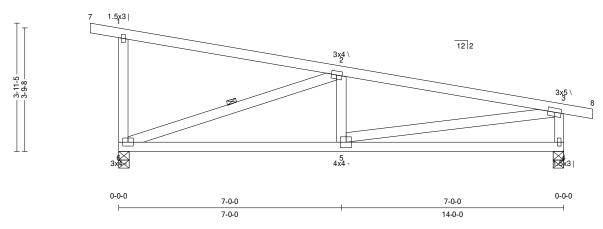
PLYS

1			15-9-10				1	
-2/12	2	0-10-12	0-10-14	0-0-0	0-0-0	1	24 in	69 lbs

CANT L

CANT R

0-10-12 7-0-0 0-10-14 7-0-0 14-0-0



All plates shown to be Eagle 20 unless otherwise noted.

PITCH

QTY

OHL

Loading (psf)	General		CSI		Deflection	1	L/	(loc)	Allowed
TCLL: 20	Bldg Code:	IBC 2018/	TC:	0.59 (2-3)	Vert TL:	0.15 in	L/999	(4-5)	L/240
TCDL: 10	~	TPI 1-2014	BC:	0.68 (5-6)	Vert LL:	0.06 in	L/999	(4-5)	L/360
BCLL: 0	Rep Mbr:	No	Web:	0.29 (2-6)	Horz TL:	0.01 in		4	
BCDL: 10	Lumber D.O.L.:	115 %		` /					

Reaction

SPAN

14-0-0

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
6	1	4 in	1.50 in	754 lbs		-84 lbs	-322 lbs	-322 lbs	-163 lbs
4	1	4 in	150 in	754 lbs		-59 lbs	-317 lbs	-317 lbs	

Material

TC: SYP#1 2x 4 BC: SYP#1 2x 4 Web: SYP#1 2x 4

Bracing

TC: Sheathed or Purlins at 4-10-0, Purlin design by Others. BC: Sheathed or Purlins at 10-0-0, Purlin design by Others.

Web: One Midpoint Row: 2-6

Loads

1) This truss has been designed for the effects of balanced (20 psf) sloped roof snow loads in accordance with ASCE7 - 16 with the following user defined input: 20 psf GSL, Terrain C, Exposure (Ce = 1.0), Thermal (Ct = 1.00), DOL = 1.15. If the roof configuration differs from hip/gable, Building Designer shall verify snow loads.

- 2) This truss has not been designed for the effects of unbalanced snow loads.
- 3) This truss has been designed to account for the effects of ice dams forming at the eaves.
- 4) This truss has been designed for the effects of wind loads in accordance with ASCE7 16 with the following user defined input: 115 mph (Factored), Exposure
- C, Enclosed, Gable/Hip, Risk Category II, Overall Bldg Dims 25 ft x 60 ft, h = 15 ft, End Zone Truss, Both end webs considered. DOL = 1.60
- 5) Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Member Forces

Table indicates: Member ID, max CSI, max tension force, (max compression force). Only forces greater than 300lbs are shown in this table.

TC	2-3	0.592	430 lbs	(-1,261 lbs)					
BC	5-6	0.677	1,217 lbs	(-316 lbs)					
Web	2-6	0.287	492 lbs	(-1,285 lbs)	3-4	0.066	349 lbs	(-642 lbs)	
	3-5	0.253	1,235 lbs	(-349 lbs)					

Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) The fabrication tolerance for this roof truss is 20% (Cq = 0.80).
- 3) Brace bottom chord with approved sheathing or purlins per Bracing Summary.
- 4) Lateral bracing shown is for illustration purposes only and may be placed on either edge of truss member.
- 5) A creep factor of 2.00 has been applied for this truss analysis.
- 6) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 7) Indicates lateral bracing required perpendicular to the plane of the truss at either the midpoint (one shown) or third points (two shown), bracing by others. See BCSI-B3 for additional information. 8) Listed wind uplift reactions based on MWFRS & C&C loading.

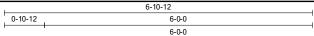
WARNING: Verify all design parameters and follow all notes on this drawing and in the Eagle Metal Design Notes.

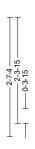
This design is for an individual building component (a truss), not a truss system, and is based only on parameters shown and provided by the Building Designer. The applicability of the design parameters must be verified by the Building Designer and should properly incorporate this design into the overall building design before use. Bracing shown is only to prevent buckling of individual truss web and/or chord members. Additional temporary and permanent bracing is always required to prevent collapse and provide stability. Design valid only when Eagle Metal connectors are used. Aseal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

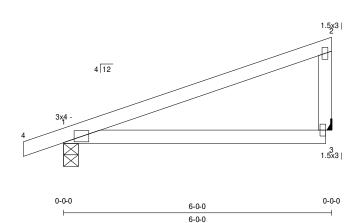
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Quality Line Truss Co., LLC Truss:T08 34593 S 4350 RD QU03286_RESERVE_F2_REVISEI 08 Job: Address 2 Date: 08/14/25 12:01:43 Page: 1 of 1 Adair, OK 74330 SPAN PITCH OHL OHR CANT R PLYS SPACING WGT/PLY QTY CANT L 6-0-0 4/12 0-10-12 0-0-0 0-0-0 21 lbs 0-0-0 24 in







All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General		CSI		Deflection		L/	(loc)	Allowed
TCLL: 20	Bldg Code:	IBC 2018/ TPI 1-2014	TC: BC:	0.44 (1-2)	Vert TL:	0.15 in	L/448	(3-1)	L/240 L/360
TCDL: 10 BCLL: 0	Rep Mbr:	Yes	Web:	0.40 (3-1) 0.07 (2-3)	Vert LL: Horz TL:	0.09 in UP 0 in	L/ /62	(3-1)	L/ 300
BCDL: 10	Lumber D.O.L.:	115 %		` ′					

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Upli	ft Max C&C Uplift	Max Uplift	Max Horiz
1	1	4 in	1.50 in	353 lbs		-25 lbs	-333 lbs	-333 lbs	145 lbs
3	1	15 in	N/A	300 lbs		-30 lbs	-255 lbs	-255 lbs	

Material

TC: SYP#1 2x 4 BC: SYP#1 2x 4 Web: SYP#1 2x 4

Bracing

TC: Sheathed or Purlins at 6-3-0, Purlin design by Others. BC: Sheathed or Purlins at 10-0-0, Purlin design by Others.

Loads

- 1) This truss has been designed for the effects of balanced (14 psf) sloped roof snow loads in accordance with ASCE7 16 with the following user defined input: 20 psf GSL, Terrain C, Exposure (Ce = 1.0), Thermal (Ct = 1.00), DOL = 1.15. If the roof configuration differs from hip/gable, Building Designer shall verify snow loads.
- 2) This truss has not been designed for the effects of unbalanced snow loads.
- 3) This truss has been designed to account for the effects of ice dams forming at the eaves.
- 4) This truss has been designed for the effects of wind loads in accordance with ASCE7 16 with the following user defined input: 115 mph (Factored), Exposure
- C, Enclosed, Gable/Hip, Risk Category II, Overall Bldg Dims 25 ft x 60 ft, h = 15 ft, End Zone Truss, Both end webs considered. DOL= 1.60
- 5) Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Member Forces			Table indicates: M	ember ID, max CSI, max tension force, (max com	pression force). Only forces greater than 300lbs are	shown in this table.
TC	1-2	0.439	(-371 lbs)			
BC	3-1	0.396	311 lbs			
Web						

Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) The fabrication tolerance for this roof truss is 20% (Cq = 0.80).
- 3) Hanger is for graphical interpretation only. Install hanger per manufacturer's recommendation.
- 4) Brace bottom chord with approved sheathing or purlins per Bracing Summary.
- 5) A creep factor of 2.00 has been applied for this truss analysis.
- 6) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 7) Please refer to Eagle Metal's Engineering Details sheet titled, Girder Ledger Detail.
- 8) Listed wind uplift reactions based on MWFRS & C&C loading.

WARNING: Verify all design parameters and follow all notes on this drawing and in the Eagle Metal Design Notes.

This design is for an individual building component (a truss), not a truss system, and is based only on parameters shown and provided by the Building Designer. The applicability of the design parameters must be verified by the Building Designer and should properly incorporate this design into the overall building design before use. Bracing shown is only to prevent buckling of individual truss web and/or chord members. Additional temporary and permanent bracing is always required to prevent collapse and provide stability. Design valid only when Eagle Metal connectors are used. Aseal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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