

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: **QU02705_RESERVE BLDG J_REFRESHED_11272024** - 1224990

GE01, GE02, GE03, SGE01, SGE02, T01, T02, T03, T04, T05, F01, F02, F03, F04, F05, F06, F07, F08, FG01, FG02, FG03, FG04

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 12/31/2024.

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.

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

Quality Line Truss Co., LLC

34593 S 4350 RD

Address 2

Adair, OK 74330

Truss:F01

Job: QU02705_RESERVE BLDG J_REFRE

Date: 11/27/24 10:54:24

Page: 1 of 1

SPAN
26-8-8

PITCH
0/12

QTY
3

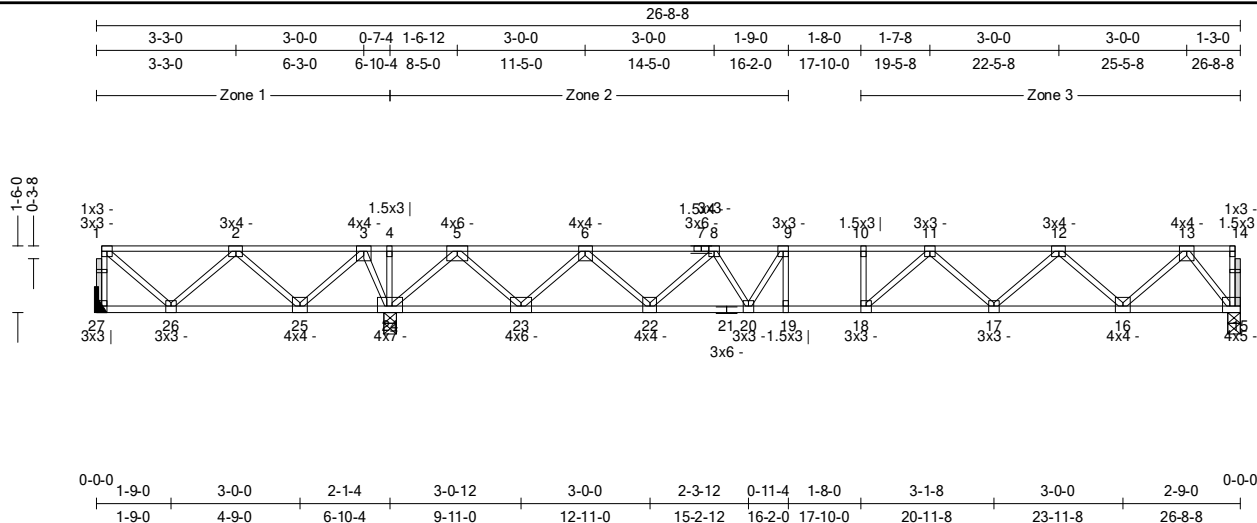
OHL
0-0-0

OHR
0-0-0

PLYS
1

SPACING
19.19 in

WGT/PLY
138 lbs



All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 40	Bldg Code: IBC 2018/	TC: 0.35 (2-3)	Vert TL: 0.27 in	L/859	(17-18)	L/240
TCDL: 10	TPI 1-2014	BC: 0.48 (19-20)	Vert LL: 0.15 in	L/999	(17-18)	L/360
BCLL: 0	Rep Mbr: Yes	Web: 0.24 (5-23)	Horz TL: 0.03 in		15	
BCDL: 10	Lumber D.O.L.: 100 %					

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
24	1	3.5 in	1.50 in	2,187 lbs					
27	1	3.5 in	---	171 lbs	-328 lbs			-328 lbs	
15	1	3.5 in	1.50 in	941 lbs					

Material

TC: SYP2400/1.8 4 x 2

BC: SYP2400/1.8 4 x 2

Web: SYP#1 4 x 2

Loads

1) Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Member Forces

Table indicates: Member ID, max. CSI, max axial force, (max compr. force if different from max axial force). Only forces greater than 300lbs are shown in this table.

TC	1-2	0.272	405 lbs	(-67 lbs)	4-5	0.326	2,514 lbs	9-10	0.268	-2,712 lbs	12-13	0.191	-1,448 lbs
	2-3	0.355	1,356 lbs		6-8	0.203	-1,600 lbs	10-11	0.233	-2,712 lbs			
	3-4	0.327	2,514 lbs		8-9	0.268	-2,425 lbs	11-12	0.221	-2,493 lbs			
BC	15-16	0.101	691 lbs		18-19	0.475	2,712 lbs	22-23	0.135	908 lbs	25-26	0.084	-842 lbs
	16-17	0.255	2,108 lbs		19-20	0.475	2,712 lbs	23-24	0.104	-1,163 lbs			
	17-18	0.375	2,740 lbs		20-22	0.221	2,190 lbs	24-25	0.174	-2,126 lbs			
Web	1-27	0.064	337 lbs	(-162 lbs)	5-24	0.218	-1,800 lbs	9-20	0.074	-596 lbs			
	1-26	0.073	-540 lbs		5-23	0.245	1,476 lbs	11-17	0.043	-335 lbs			
	2-26	0.113	593 lbs	(-24 lbs)	6-23	0.162	-1,332 lbs	12-17	0.087	522 lbs			
	2-25	0.113	-931 lbs		6-22	0.155	939 lbs	12-16	0.109	-895 lbs			
	3-25	0.173	1,045 lbs		8-22	0.097	-800 lbs	13-16	0.170	1,028 lbs			
	3-24	0.104	-963 lbs		8-20	0.086	463 lbs	13-15	0.127	-1,130 lbs			

Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) Unless otherwise specified by the Building Designer, one strongback every 10'-0".
- 3) The fabrication tolerance for this floor truss is 10 % (Cq = 0.90).
- 4) Hanger is for graphical interpretation only. Install hanger per manufacturer's recommendation.
- 5) A creep factor of 1.00 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 non-structural members.
- 8) Due to negative reactions in gravity load cases, special connections to the bearing surface at joint 27 may need to be considered.

ALL PERSONS FABRICATING, HANDLING, ERECTING OR INSTALLING ANY TRUSS BASED UPON THIS TRUSS DESIGN DRAWING ARE INSTRUCTED TO REFER TO ALL OF THE INSTRUCTIONS, LIMITATIONS AND QUALIFICATIONS SET FORTH IN THE EAGLE METAL PRODUCTS' DESIGN NOTES ISSUED WITH THIS DESIGN AND AVAILABLE FROM EAGLE UPON REQUEST. DESIGN VALID ONLY WHEN EAGLE METAL CONNECTORS ARE USED.

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Eagle Metal Products

1224990 0003/0028

Quality Line Truss Co., LLC

34593 S 4350 RD

Address 2

Adair, OK 74330

Truss:F02

Job: QU02705_RESERVE BLDG J_REFRE

Date: 11/27/24 10:54:26

Page: 1 of 1

SPAN
20-0-0

PITCH
0/12

QTY
2

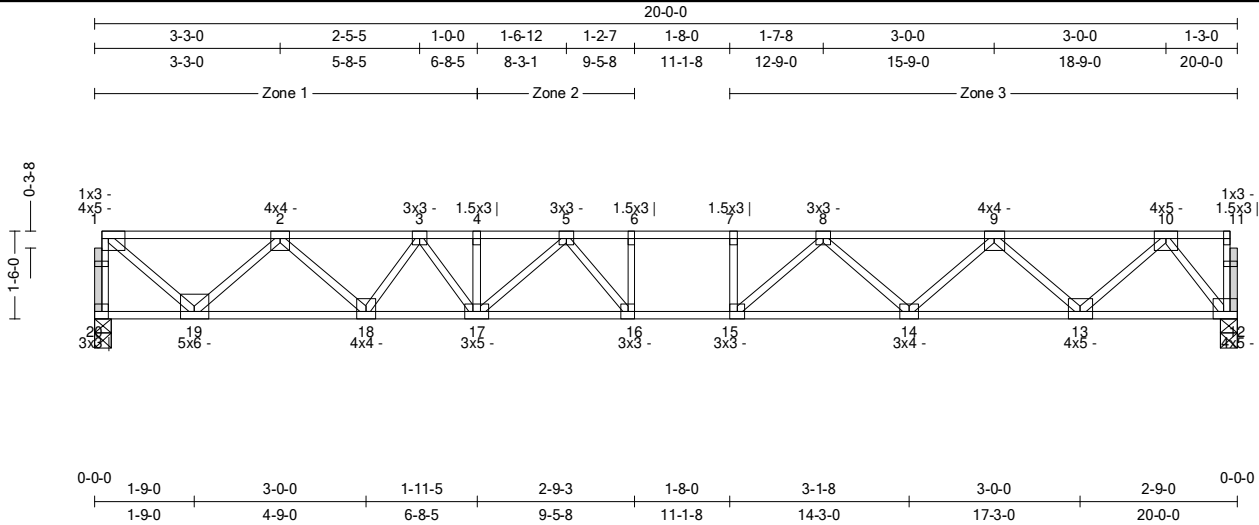
OHL
0-0-0

OHR
0-0-0

PLYS
1

SPACING
19.19 in

WGT/PLY
104 lbs



All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 40	Bldg Code: IBC 2018/	TC: 0.52 (7-8)	Vert TL: 0.39 in	L/602	(16-17)	L/240
TCDL: 10	TPI 1-2014	BC: 0.84 (16-17)	Vert LL: 0.21 in	L/999	(16-17)	L/360
BCLL: 0	Rep Mbr: No	Web: 0.26 (1-19)	Horz TL: 0.07 in		12	
BCDL: 10	Lumber D.O.L.: 100 %					

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
20	1	3.5 in	1.50 in	1,148 lbs					
12	1	3.5 in	1.50 in	1,134 lbs					

Material

TC: SYP#1 4 x 2

BC: SYP#1 4 x 2

Web: SYP#1 4 x 2

Loads

1) Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Load Case D1: Std Dead Load

Point Loads

Member	Location	Direction	Load	Trib Width
Top	6-8-5	Down	43 lbs	

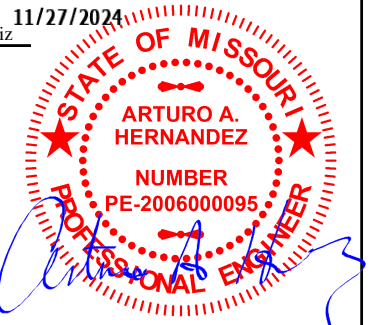
Member Forces

Table indicates: Member ID, max CSI, max axial force, (max compr. force if different from max axial force). Only forces greater than 300lbs are shown in this table.

TC	1-2	0.411	-1,161 lbs	4-5	0.383	-3,653 lbs	7-8	0.521	-4,027 lbs
	2-3	0.424	-2,909 lbs	5-6	0.458	-4,027 lbs	8-9	0.456	-3,250 lbs
	3-4	0.373	-3,653 lbs	6-7	0.516	-4,027 lbs	9-10	0.343	-1,810 lbs
BC	12-13	0.242	839 lbs	14-15	0.742	3,727 lbs	16-17	0.837	3,936 lbs
	13-14	0.545	2,672 lbs	15-16	0.824	4,027 lbs	17-18	0.611	3,313 lbs
Web	1-20	0.120	-1,128 lbs	3-17	0.096	577 lbs	9-14	0.130	783 lbs
	1-19	0.256	1,547 lbs	5-17	0.050	-377 lbs	9-13	0.142	-1,170 lbs
	2-19	0.168	-1,385 lbs	5-16	0.075	393 lbs	10-13	0.218	1,317 lbs
	2-18	0.163	986 lbs	8-15	0.109	573 lbs	10-12	0.154	-1,373 lbs
	3-18	0.080	-715 lbs	8-14	0.079	-648 lbs			

Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) Unless otherwise specified by the Building Designer, one strongback every 10'-0".
- 3) The fabrication tolerance for this floor truss is 10 % (Cq = 0.90).
- 4) A creep factor of 1.00 has been applied for this truss analysis.
- 5) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 6) ☐ Indicates non-structural members.



ALL PERSONS FABRICATING, HANDLING, ERECTING OR INSTALLING ANY TRUSS BASED UPON THIS TRUSS DESIGN DRAWING ARE INSTRUCTED TO REFER TO ALL OF THE INSTRUCTIONS, LIMITATIONS AND QUALIFICATIONS SET FORTH IN THE EAGLE METAL PRODUCTS DESIGN NOTES ISSUED WITH THIS DESIGN AND AVAILABLE FROM EAGLE UPON REQUEST. DESIGN VALID ONLY WHEN EAGLE METAL CONNECTORS ARE USED.

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Eagle Metal Products

1224990 0004/0028

Quality Line Truss Co., LLC

34593 S 4350 RD

Address 2

Adair, OK 74330

Truss:F03

Job: QU02705_RESERVE BLDG J_REFRE

Date: 11/27/24 10:54:28

Page: 1 of 1

SPAN
27-0-0

PITCH
0/12

QTY
13

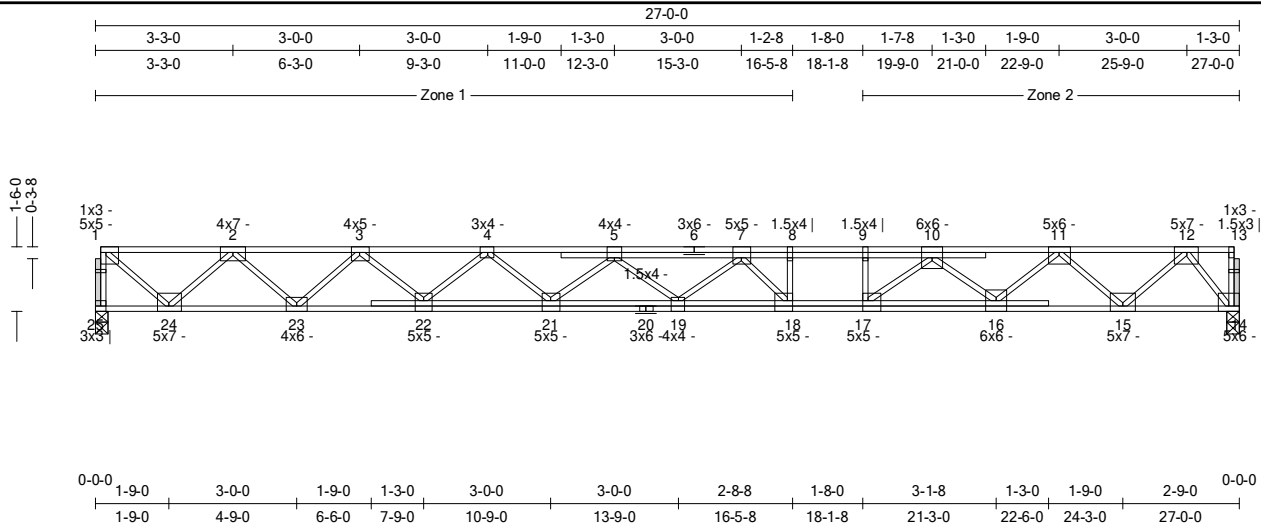
OHL
0-0-0

OHR
0-0-0

PLYS
1

SPACING
19.19 in

WGT/PLY
174 lbs



All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 40	Bldg Code: IBC 2018/	TC: 1.00 (4-5)	Vert TL: 0.93 in	L/340	19	L/240
TCDL: 10	TPI 1-2014	BC: 0.89 (22-23)	Vert LL: 0.53 in	L/594	19	L/360
BCLL: 0	Rep Mbr: Yes	Web: 0.35 (1-24)	Horz TL: 0.14 in		14	
BCDL: 10	Lumber D.O.L.: 100 %					

11/27/2024

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
25	1	3.5 in	1.50 in	1,511 lbs	.	.	.	.	.
14	1	3.5 in	1.50 in	1,511 lbs	.	.	.	.	.

Material

TC: SYP#1 4 x 2

BC: SYP#1 4 x 2

Web: SYP#1 4 x 2

Loads

1) Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Member Forces

Table indicates: Member ID, max CSI, max axial force, (max compr. force if different from max axial force). Only forces greater than 300lbs are shown in this table.

TC	1-2	0.374	-1,572 lbs	4-5	0.997	-7,387 lbs	8-9	0.425	-7,245 lbs	11-12	0.317	-2,516 lbs
	2-3	0.487	-4,114 lbs	5-7	0.377	-7,954 lbs	9-10	0.355	-7,245 lbs			
	3-4	0.732	-6,160 lbs	7-8	0.422	-7,245 lbs	10-11	0.582	-5,114 lbs			
BC	14-15	0.277	1,133 lbs	17-18	0.834	7,245 lbs	21-22	0.614	6,826 lbs			
	15-16	0.703	3,869 lbs	18-19	0.873	7,761 lbs	22-23	0.890	5,243 lbs			
	16-17	0.658	6,268 lbs	19-21	0.688	7,908 lbs	23-24	0.535	2,994 lbs			
Web	1-25	0.159	-1,488 lbs	4-22	0.105	-886 lbs	9-17	0.059	-494 lbs	12-14	0.208	-1,852 lbs
	1-24	0.347	2,094 lbs	4-21	0.122	739 lbs	10-17	0.235	1,252 lbs			
	2-24	0.234	-1,930 lbs	5-21	0.080	-683 lbs	10-16	0.176	-1,507 lbs			
	2-23	0.252	1,518 lbs	7-19	0.067	350 lbs	11-16	0.274	1,652 lbs			
	3-23	0.185	-1,528 lbs	7-18	0.109	-876 lbs	11-15	0.222	-1,833 lbs			
	3-22	0.202	1,221 lbs	8-18	0.078	409 lbs	12-15	0.311	1,876 lbs			

Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) Unless otherwise specified by the Building Designer, two strongbacks recommended at one third points of the truss span. Strongback spacing or strongback to support should not exceed 10'-0".
- 3) The fabrication tolerance for this floor truss is 10 % (Cq = 0.90).
- 4) A creep factor of 1.00 has been applied for this truss analysis.
- 5) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 6) ☐ Indicates non-structural members.



ALL PERSONS FABRICATING, HANDLING, ERECTING OR INSTALLING ANY TRUSS BASED UPON THIS TRUSS DESIGN DRAWING ARE INSTRUCTED TO REFER TO ALL OF THE INSTRUCTIONS, LIMITATIONS AND QUALIFICATIONS SET FORTH IN THE EAGLE METAL PRODUCTS DESIGN NOTES ISSUED WITH THIS DESIGN AND AVAILABLE FROM EAGLE UPON REQUEST. DESIGN VALID ONLY WHEN EAGLE METAL CONNECTORS ARE USED.

TrueBuild® Truss Software v5.7.13
Eagle Metal Products

1224990 0005/0028

Quality Line Truss Co., LLC

34593 S 4350 RD

Address 2

Adair, OK 74330

Truss:F04

Job: QU02705_RESERVE BLDG J_REFERENCE

Date: 11/27/24 10:54:29

Page: 1 of 1

SPAN
13-10-8

PITCH
0/12

QTY
2

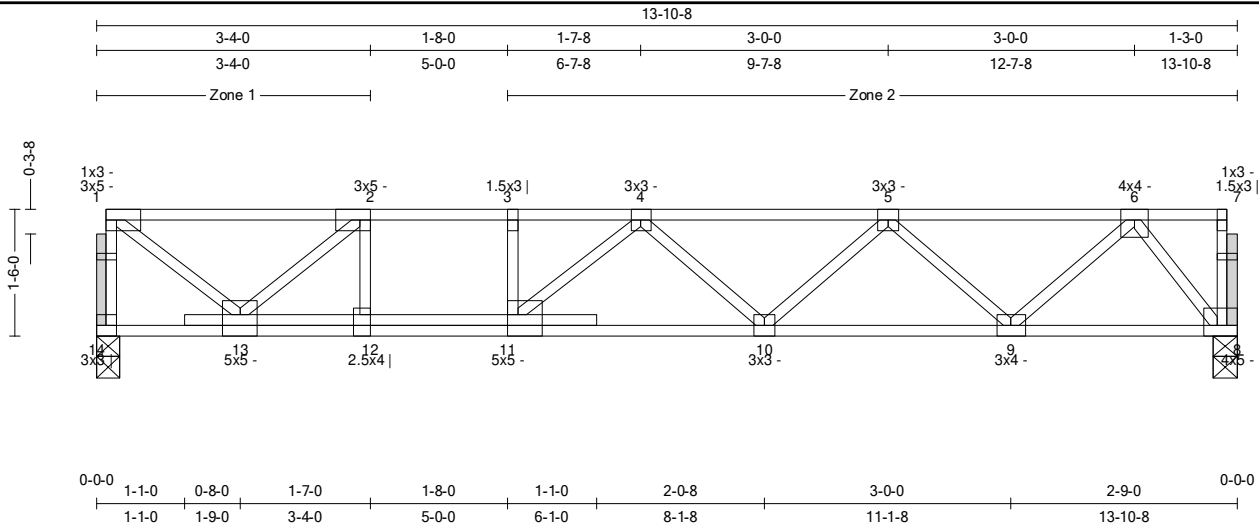
OHL
0-0-0

OHR
0-0-0

PLYS
1

SPACING
19.19 in

WGT/PLY
79 lbs



All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 40	Bldg Code: IBC 2018/	TC: 0.54 (2-3)	Vert TL: 0.21 in	L/751	(10-11)	L/240
TCDL: 10	TPI 1-2014	BC: 0.72 (10-11)	Vert LL: 0.13 in	L/999	(10-11)	L/360
BCLL: 0	Rep Mbr: No	Web: 0.17 (1-13)	Horz TL: 0.02 in		8	
BCDL: 10	Lumber D.O.L.: 100 %					

11/27/2024

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
14	1	3.5 in	1.50 in	776 lbs	.	.	.	.	.
8	1	3.5 in	1.50 in	776 lbs	.	.	.	.	.

Material

TC: SYP#1 4 x 2

BC: SYP#1 4 x 2

Web: SYP#1 4 x 2

Loads

1) Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

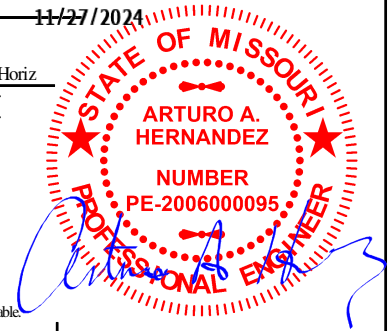
Member Forces

Table indicates: Member ID, max CSI, max axial force, (max compr. force if different from max axial force). Only forces greater than 300lbs are shown in this table.

TC	1-2	0.536	-768 lbs	3-4	0.360	-1,704 lbs	5-6	0.301	-1,139 lbs
	2-3	0.540	-1,704 lbs	4-5	0.332	-1,827 lbs			
BC	8-9	0.183	563 lbs	10-11	0.725	1,923 lbs	12-13	0.716	1,704 lbs
	9-10	0.477	1,620 lbs	11-12	0.716	1,704 lbs			
Web	1-14	0.078	-735 lbs	2-12	0.085	454 lbs	6-9	0.129	780 lbs
	1-13	0.166	1,003 lbs	4-11	0.041	-310 lbs	6-8	0.103	-922 lbs
	2-13	0.146	-1,236 lbs	5-9	0.079	-653 lbs			

Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) Unless otherwise specified by the Building Designer, one strongback every 10'-0".
- 3) The fabrication tolerance for this floor truss is 10 % (Cq = 0.90).
- 4) A creep factor of 1.00 has been applied for this truss analysis.
- 5) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 6) ☐ Indicates non-structural members.



ALL PERSONS FABRICATING, HANDLING, ERECTING OR INSTALLING ANY TRUSS BASED UPON THIS TRUSS DESIGN DRAWING ARE INSTRUCTED TO REFER TO ALL OF THE INSTRUCTIONS, LIMITATIONS AND QUALIFICATIONS SET FORTH IN THE EAGLE METAL PRODUCTS DESIGN NOTES ISSUED WITH THIS DESIGN AND AVAILABLE FROM EAGLE UPON REQUEST. DESIGN VALID ONLY WHEN EAGLE METAL CONNECTORS ARE USED.

TrueBuild® Truss Software v5.7.13
Eagle Metal Products

1224990 0006/0028

Quality Line Truss Co., LLC

34593 S 4350 RD
Address 2
Adair, OK 74330

Truss:F05

Job: QU02705_RESERVE BLDG J_REFRE!

Date: 11/27/24 10:54:44

Page: 1 of 1

SPAN
13-3-8

PITCH
0/12

QTY
2

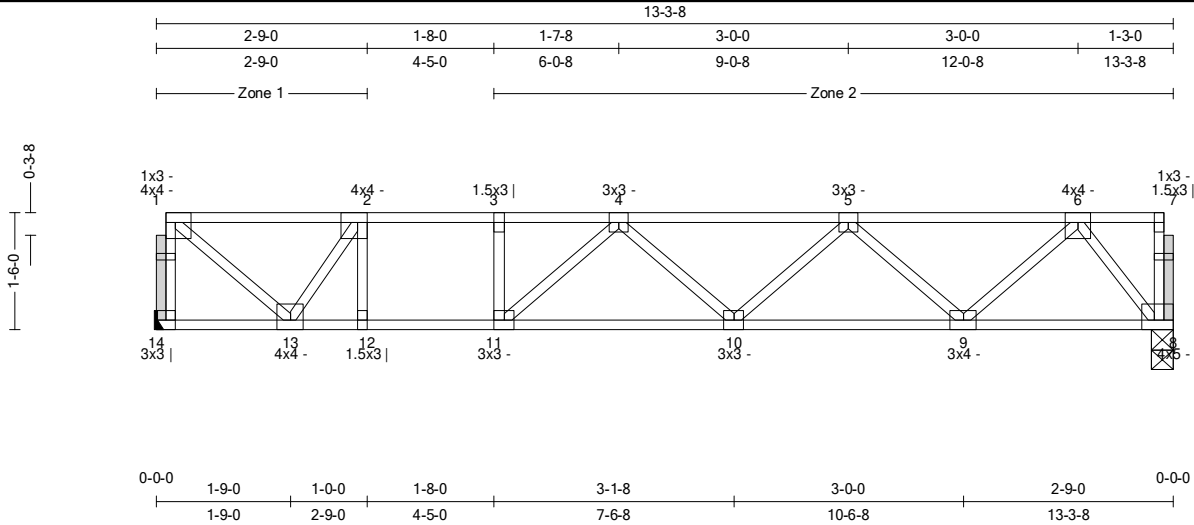
OHL
0-0-0

OHR
0-0-0

PLYS
1

SPACING
19.19 in

WGT/PLY
70 lbs



All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 40	Bldg Code: IBC 2018/	TC: 0.42 (2-3)	Vert TL: 0.27 in	L/571	(10-11)	L/240
TCDL: 10	TPI 1-2014	BC: 0.71 (12-13)	Vert LL: 0.16 in	L/959	(10-11)	L/360
BCLL: 0	Rep Mbr: No	Web: 0.17 (1-13)	Horz TL: 0.02 in		8	
BCDL: 10	Lumber D.O.L.: 100 %					

11/27/2024

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
14	1	1.5 in	—	744 lbs	.	.	.	.	.
8	1	3.5 in	1.50 in	744 lbs	.	.	.	.	.

Material

TC: SYP2400/1.8 4 x 2
BC: SYP2400/1.8 4 x 2
Web: SYP#1 4 x 2

Loads

1) Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

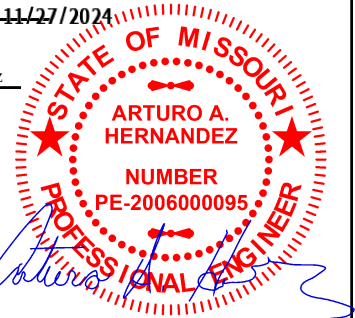
Member Forces

Table indicates: Member ID, max CSI, max axial force, (max compr. force if different from max axial force). Only forces greater than 300lbs are shown in this table.

TC	1-2	0.420	-749 lbs	3-4	0.399	-1,334 lbs	5-6	0.191	-1,075 lbs
	2-3	0.424	-1,334 lbs	4-5	0.204	-1,707 lbs			
BC	8-9	0.106	538 lbs	10-11	0.528	1,709 lbs	12-13	0.711	1,334 lbs
	9-10	0.297	1,524 lbs	11-12	0.711	1,334 lbs			
Web	1-14	0.074	-697 lbs	2-12	0.076	433 lbs	6-9	0.121	728 lbs
	1-13	0.165	997 lbs	4-11	0.065	-499 lbs	6-8	0.099	-880 lbs
	2-13	0.115	-1,039 lbs	5-9	0.074	-610 lbs			

Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) Unless otherwise specified by the Building Designer, one strongback every 10'-0".
- 3) The fabrication tolerance for this floor truss is 10 % (Cq = 0.90).
- 4) Hanger is for graphical interpretation only. Install hanger per manufacturer's recommendation.
- 5) A creep factor of 1.00 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 non-structural members.



ALL PERSONS FABRICATING, HANDLING, ERECTING OR INSTALLING ANY TRUSS BASED UPON THIS TRUSS DESIGN DRAWING ARE INSTRUCTED TO REFER TO ALL OF THE INSTRUCTIONS, LIMITATIONS AND QUALIFICATIONS SET FORTH IN THE EAGLE METAL PRODUCTS DESIGN NOTES ISSUED WITH THIS DESIGN AND AVAILABLE FROM EAGLE UPON REQUEST. DESIGN VALID ONLY WHEN EAGLE METAL CONNECTORS ARE USED.

TrueBuild® Truss Software v5.7.13
Eagle Metal Products

1224990 0007/0028

Quality Line Truss Co., LLC

34593 S 4350 RD

Address 2

Adair, OK 74330

Truss:F06

Job: QU02705_RESERVE BLDG J_REFRE

Date: 11/27/24 10:54:30

Page: 1 of 1

SPAN
5-2-0

PITCH
0/12

QTY
1

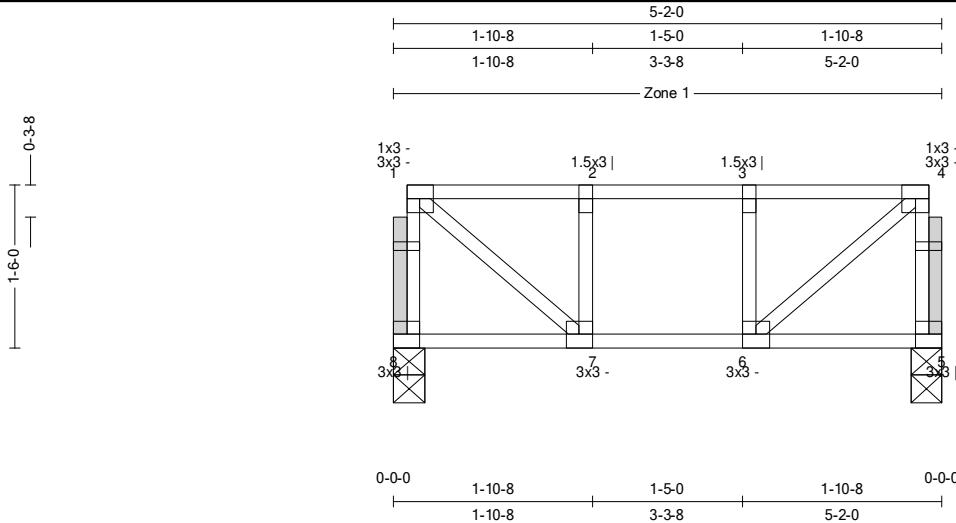
OHL
0-0-0

OHR
0-0-0

PLYS
1

SPACING
19.19 in

WGT/PLY
30 lbs



All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 40	Bldg Code: IBC 2018/	TC: 0.13 (1-2)	Vert TL: 0.01 in	L/999	(5-6)	L/240
TCDL: 10	TPI 1-2014	BC: 0.11 (6-7)	Vert LL: 0.01 in	L/999	(5-6)	L/360
BCLL: 0	Rep Mbr: No	Web: 0.05 (1-7)	Horz TL: 0 in		5	
BCDL: 10	Lumber D.O.L.: 100 %					

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
8	1	3.5 in	1.50 in	289 lbs	.	.	.	.	.
5	1	3.5 in	1.50 in	289 lbs	.	.	.	.	.

Material

TC: SYP#1 4 x 2

BC: SYP#1 4 x 2

Web: SYP#1 4 x 2

Loads

1) Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Member Forces

Table indicates: Member ID, max CSI, max axial force, (max compr. force if different from max axial force). Only forces greater than 300lbs are shown in this table.

TC	BC	Web	1-7	0.051	309 lbs
		4-6	0.051	309 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 floor truss is 10 % (Cq = 0.90).
- 3) A creep factor of 1.00 has been applied for this truss analysis.
- 4) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 5) ☐ Indicates non-structural members.

11/27/2024



ALL PERSONS FABRICATING, HANDLING, ERECTING OR INSTALLING ANY TRUSS BASED UPON THIS TRUSS DESIGN DRAWING ARE INSTRUCTED TO REFER TO ALL OF THE INSTRUCTIONS, LIMITATIONS AND QUALIFICATIONS SET FORTH IN THE EAGLE METAL PRODUCTS DESIGN NOTES ISSUED WITH THIS DESIGN AND AVAILABLE FROM EAGLE UPON REQUEST. DESIGN VALID ONLY WHEN EAGLE METAL CONNECTORS ARE USED.

TrueBuild® Truss Software v5.7.13
Eagle Metal Products

1224990 0008/0028

Quality Line Truss Co., LLC

34593 S 4350 RD
Address 2
Adair, OK 74330

Truss:F07

Job: QU02705_RESERVE BLDG J_REFRE

Date: 11/27/24 10:54:31

Page: 1 of 1

SPAN
5-2-0

PITCH
0/12

QTY
3

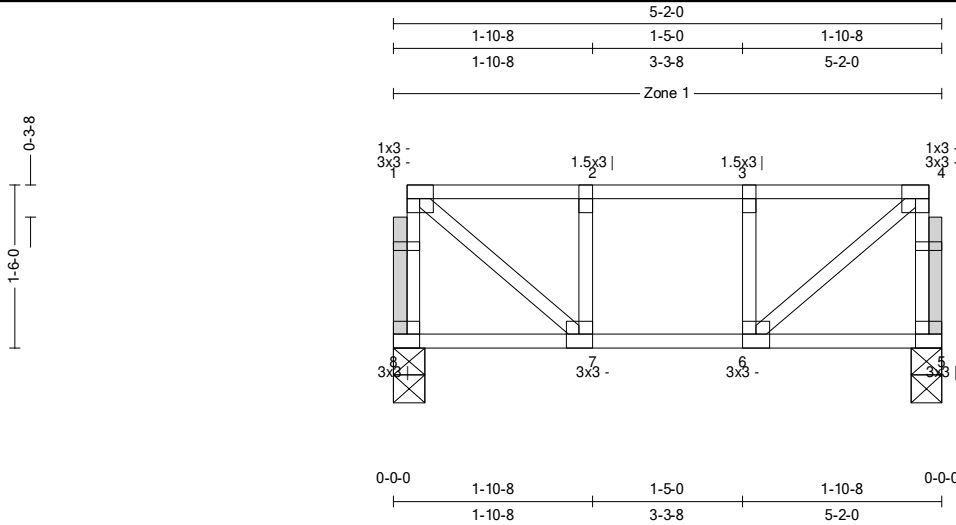
OHL
0-0-0

OHR
0-0-0

PLYS
1

SPACING
24 in

WGT/PLY
30 lbs



All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 40	Bldg Code: IBC 2018/	TC: 0.16 (1-2)	Vert TL: 0.01 in	L/999	(5-6)	L/240
TCDL: 10	TPI 1-2014	BC: 0.12 (6-7)	Vert LL: 0.01 in	L/999	(5-6)	L/360
BCLL: 0	Rep Mbr: Yes	Web: 0.06 (1-7)	Horz TL: 0 in		5	
BCDL: 10	Lumber D.O.L.: 100 %					

11/27/2024

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
8	1	3.5 in	1.50 in	362 lbs	.	.	.	.	.
5	1	3.5 in	1.50 in	362 lbs	.	.	.	.	.

Material

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

Loads

1) Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

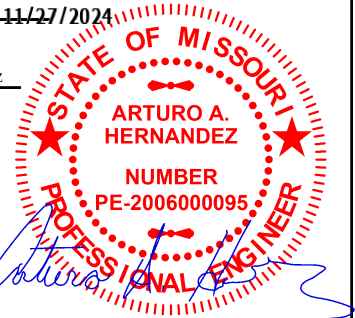
Member Forces

Table indicates: Member ID, max CSI, max axial force, (max compr. force if different from max axial force). Only forces greater than 300lbs are shown in this table.

TC	BC	Web	1-8	0.035	-326 lbs	4-6	0.064	386 lbs	4-5	0.035	-326 lbs
			1-7	0.064	386 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 floor truss is 10 % (Cq = 0.90).
- 3) A creep factor of 1.00 has been applied for this truss analysis.
- 4) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 5) ☐ Indicates non-structural members.



ALL PERSONS FABRICATING, HANDLING, ERECTING OR INSTALLING ANY TRUSS BASED UPON THIS TRUSS DESIGN DRAWING ARE INSTRUCTED TO REFER TO ALL OF THE INSTRUCTIONS, LIMITATIONS AND QUALIFICATIONS SET FORTH IN THE EAGLE METAL PRODUCTS DESIGN NOTES ISSUED WITH THIS DESIGN AND AVAILABLE FROM EAGLE UPON REQUEST. DESIGN VALID ONLY WHEN EAGLE METAL CONNECTORS ARE USED.

TrueBuild® Truss Software v5.7.13
Eagle Metal Products

1224990 0009/0028

Quality Line Truss Co., LLC

34593 S 4350 RD

Address 2

Adair, OK 74330

Truss:F08

Job: QU02705_RESERVE BLDG J_REFER

Date: 11/27/24 10:54:32

Page: 1 of 1

SPAN
16-6-0

PITCH
0/12

QTY
5

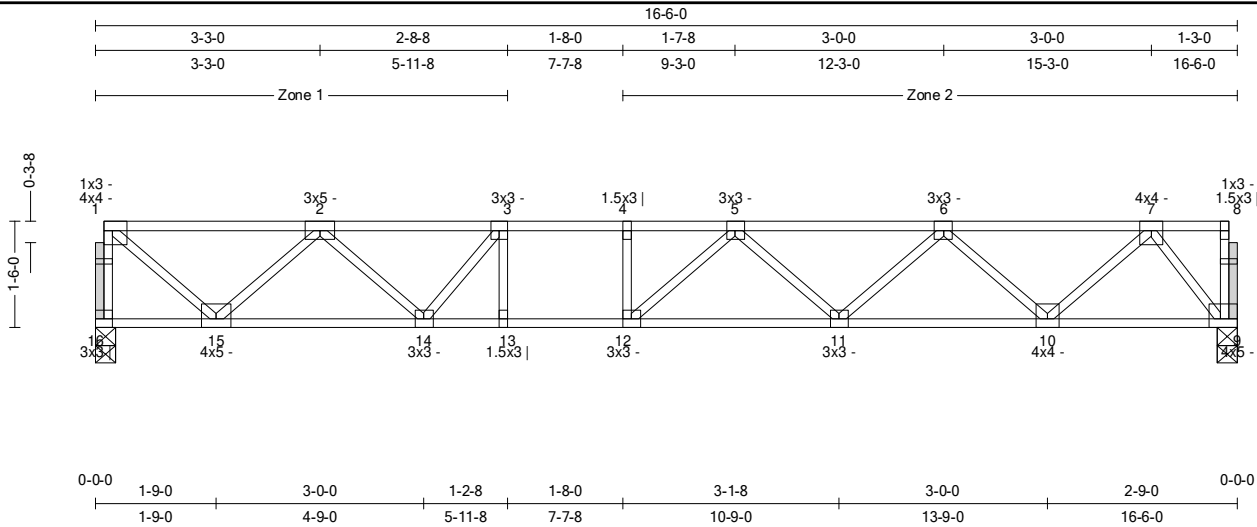
OHL
0-0-0

OHR
0-0-0

PLYS
1

SPACING
19.19 in

WGT/PLY
84 lbs



All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 40	Bldg Code: IBC 2018/	TC: 0.43 (2-3)	Vert TL: 0.27 in	L/704	(11-12)	L/240
TCDL: 10	TPI 1-2014	BC: 0.83 (13-14)	Vert LL: 0.16 in	L/999	(11-12)	L/360
BCLL: 0	Rep Mbr: Yes	Web: 0.20 (1-15)	Horz TL: 0.04 in		9	
BCDL: 10	Lumber D.O.L.: 100 %					

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
16	1	3.5 in	1.50 in	923 lbs	.	.	.	.	.
9	1	3.5 in	1.50 in	923 lbs	.	.	.	.	.

Material

TC: SYP#1 4 x 2

BC: SYP#1 4 x 2

Web: SYP#1 4 x 2

Loads

1) Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Member Forces

Table indicates: Member ID, max CSI, max axial force, (max compr. force if different from max axial force). Only forces greater than 300lbs are shown in this table.

TC	1-2	0.369	-903 lbs	3-4	0.402	-2,573 lbs	5-6	0.311	-2,419 lbs
2-3	0.433	-2,178 lbs	4-5	0.404	-2,573 lbs	6-7	0.267	-1,414 lbs	
BC	9-10	0.178	677 lbs	11-12	0.693	2,640 lbs	13-14	0.832	2,573 lbs
10-11	0.464	2,053 lbs	12-13	0.832	2,573 lbs	14-15	0.353	1,670 lbs	
Web	1-16	0.097	-905 lbs	3-14	0.077	-617 lbs	7-10	0.165	999 lbs
1-15	0.199	1,203 lbs	5-11	0.038	-301 lbs	7-9	0.124	-1,107 lbs	
2-15	0.126	-1,040 lbs	6-11	0.082	495 lbs				
2-14	0.114	688 lbs	6-10	0.105	-868 lbs				

Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) Unless otherwise specified by the Building Designer, one strongback every 10'-0".
- 3) The fabrication tolerance for this floor truss is 10 % (Cq = 0.90).
- 4) A creep factor of 1.00 has been applied for this truss analysis.
- 5) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 6) ☐ Indicates non-structural members.

11/27/2024



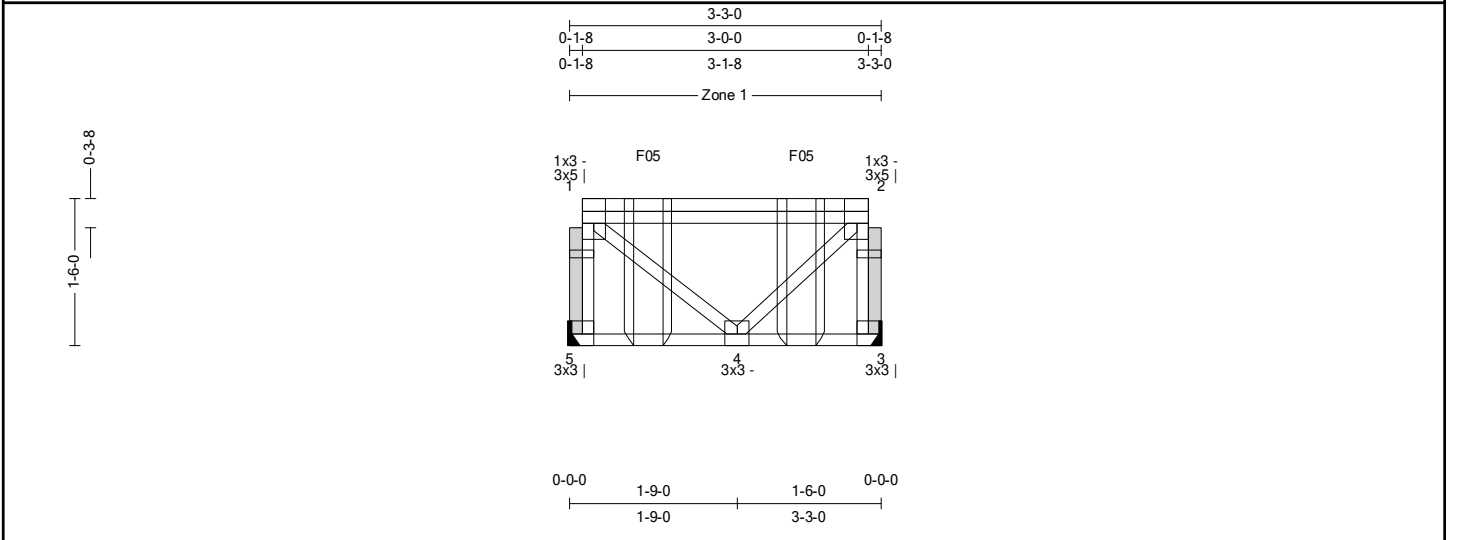
ALL PERSONS FABRICATING, HANDLING, ERECTING OR INSTALLING ANY TRUSS BASED UPON THIS TRUSS DESIGN DRAWING ARE INSTRUCTED TO REFER TO ALL OF THE INSTRUCTIONS, LIMITATIONS AND QUALIFICATIONS SET FORTH IN THE EAGLE METAL PRODUCTS DESIGN NOTES ISSUED WITH THIS DESIGN AND AVAILABLE FROM EAGLE UPON REQUEST. DESIGN VALID ONLY WHEN EAGLE METAL CONNECTORS ARE USED.

TrueBuild® Truss Software v5.7.13
Eagle Metal Products

1224990 0010/0028

Quality Line Truss Co., LLC 34593 S 4350 RD Address 2 Adair, OK 74330		Truss:FG01 Job: QU02705_RESERVE BLDG J_REFER Date: 11/27/24 10:54:45 Page: 1 of 1
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SPAN 3-3-0	PITCH 0/12	QTY 1	OHL 0-0-0	OHR 0-0-0	PLYS 1	SPACING 12 in	WGT/PLY 25 lbs
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All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
Carried Loads (psf)	Bldg Code: IBC 2018/	TC: 0.83 (1-2)	Vert TL: 0 in	L / 999	(4-5)	L / 240
TCLL: 40	TPI 1-2014	BC: 0.03 (4-5)	Vert LL: 0 in	L / 999	(4-5)	L / 360
TCDL: 10	Rep Mbr: No	Web: 0.09 (1-5)	Horz TL: 0 in		3	
BCCL: 0	Lumber D.O.L.: 100 %					
BCDL: 10						

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
5	1	1.5 in	---	755 lbs	.	.	.	.	.
3	1	1.5 in	---	748 lbs	.	.	.	.	.

Material

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

Loads

1) Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Member Forces

Table indicates: Member ID, max CSI, max axial force, (max compr. force if different from max axial force). Only forces greater than 300lbs are shown in this table.

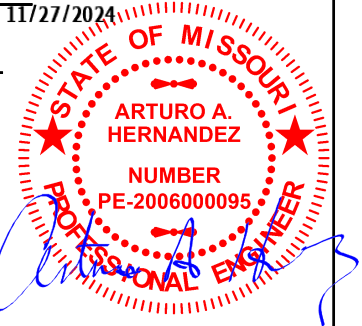
TC	BC	Web	1-5	0.088	-737 lbs	2-3	0.087	-733 lbs
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Truss to Truss Connection Summary

Carried Truss	Carrying Chord	Carrying Offset
R05	TC	0-9-13
R05	TC	2-5-0

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 floor truss is 10 % (Cq = 0.90).
- 3) Hangers are for graphical interpretation only. Install hangers per manufacturer's recommendations.
- 4) A creep factor of 1.00 has been applied for this truss analysis.
- 5) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 6) ☐ Indicates non-structural members.



Quality Line Truss Co., LLC

34593 S 4350 RD

Address 2

Adair, OK 74330

Truss:FG02

Job: QU02705_RESERVE BLDG J_REFRE

Date: 11/27/24 10:54:47

Page: 1 of 2

SPAN
27-0-0

PITCH
0/12

QTY
1

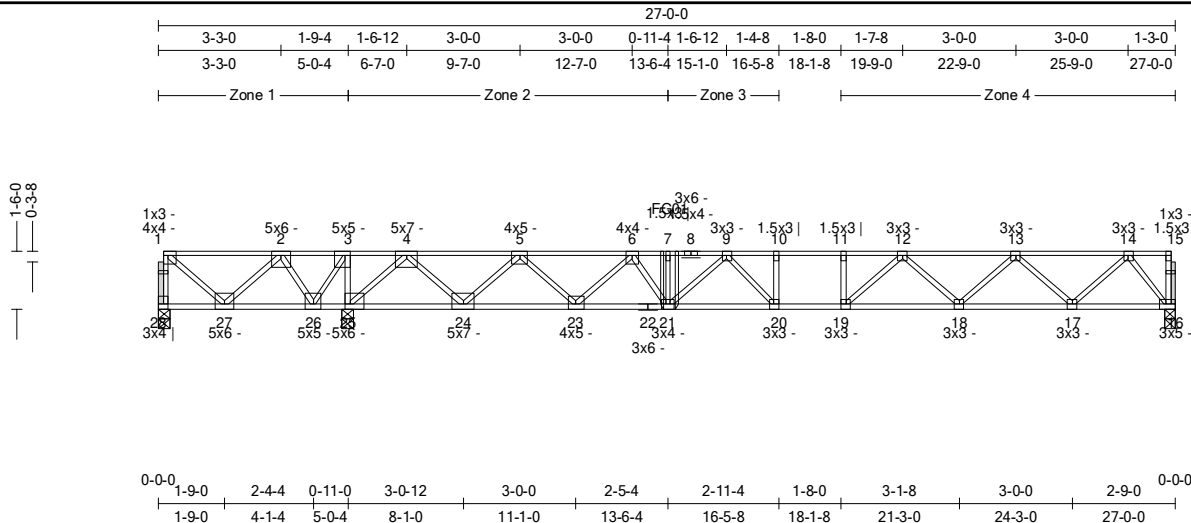
OHL
0-0-0

OHR
0-0-0

PLYS
2

SPACING
53.75 in

WGT/PLY
142 lbs



All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
Carried Loads (psf)	Bldg Code: IBC 2018/	TC: 0.56 (3-4)	Vert TL: 0.3 in	L/862	(20-21)	L/240
TCLL: 40	TPI 1-2014	BC: 0.40 (20-21)	Vert LL: 0.18 in	L/999	(20-21)	L/360
TCDL: 10	Rep Mbr: No	Web: 0.32 (4-24)	Horz TL: 0.02 in		16	
BCLL: 0	Lumber D.O.L.: 100 %					
BCDL: 10						

11/27/2024

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
25	1	3.5 in	1.50 in	5,763 lbs					
28	1	3.5 in	N/A	0 lbs	-2,036 lbs			-2,036 lbs	
16	1	3.5 in	1.50 in	1,143 lbs					

Material

TC: SYP2400/1.8 4 x 2

BC: SYP2400/1.8 4 x 2

Web: SYP#1 4 x 2

Loads

1) Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Load Case L1: Std Live Load

Distributed Loads

Member	Location 1	Location 2	Direction	Spread	Start Load	End Load	Trib Width
Top	0-0-0	5-2-0	Down	Proj	9.79 plf	9.79 plf	
Top	5-2-0	13-1-8	Down	Proj	150.1 plf	150.1 plf	
Top	13-1-8	13-6-12	Down	Proj	73.75 plf	73.75 plf	
Top	13-6-12	27-0-0	Down	Proj	22.19 plf	22.19 plf	
Top	0-0-0	27-0-0	Down	Proj	29.06 plf	29.06 plf	

Load Case D1: Std Dead Load

Distributed Loads

Member	Location 1	Location 2	Direction	Spread	Start Load	End Load	Trib Width
Top	0-0-0	5-2-0	Down	Proj	2.45 plf	2.45 plf	
Top	5-2-0	13-1-8	Down	Proj	37.53 plf	37.53 plf	
Top	13-1-8	13-6-12	Down	Proj	18.44 plf	18.44 plf	
Top	13-6-12	27-0-0	Down	Proj	5.55 plf	5.55 plf	
Top	0-0-0	27-0-0	Down	Proj	7.27 plf	7.27 plf	
Bot	0-0-0	5-2-0	Down	Proj	2.45 plf	2.45 plf	
Bot	5-2-0	13-1-8	Down	Proj	37.53 plf	37.53 plf	
Bot	13-1-8	13-6-12	Down	Proj	18.44 plf	18.44 plf	
Bot	13-6-12	27-0-0	Down	Proj	5.55 plf	5.55 plf	
Bot	0-0-0	27-0-0	Down	Proj	7.27 plf	7.27 plf	

Member Forces

Table indicates: Member ID, max CSI, max axial force, (max compr. force if different from max axial force). Only forces greater than 300lbs are shown in this table.

TC	1-2	0.190	1,196 lbs	5-6	0.280	-1,546 lbs	10-11	0.235	-2,424 lbs
	2-3	0.357	3,091 lbs	6-7	0.226	-2,584 lbs	11-12	0.237	-2,424 lbs
	3-4	0.564	3,836 lbs	7-9	0.230	-2,584 lbs	12-13	0.172	-1,765 lbs
	4-5	0.380	615 lbs	9-10	0.238	-2,424 lbs	13-14	0.092	-946 lbs

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TrueBuild® Truss Software v5.7.13
Eagle Metal Products

1224990 0012/0028

Quality Line Truss Co., LLC 34593 S 4350 RD Address 2 Adair, OK 74330										Truss:FG02 Job: QU02705_RESERVE BLDG J_REFER Date: 11/27/24 10:54:48 Page: 2 of 2																					
SPAN 27-0-0				PITCH 0/12				QTY 1				OHL 0-0-0				OHR 0-0-0				PLYS 2				SPACING 53.75 in				WGT/PLY 142 lbs			
BC	16-17	0.070	427 lbs	19-20	0.381	2,424 lbs	23-24	0.163	661 lbs	26-27	0.219	-2,376 lbs																			
	17-18	0.163	1,416 lbs	20-21	0.395	2,570 lbs	24-25	0.202	-2,039 lbs																						
	18-19	0.338	2,098 lbs	21-23	0.267	2,304 lbs	25-26	0.334	-3,836 lbs																						
Web	1-28	0.174	1,021 lbs	4-25	0.290	-2,394 lbs	7-21	0.041	-334 lbs	14-16	0.078	-698 lbs																			
	1-27	0.193	-1,593 lbs	4-24	0.320	1,932 lbs	12-19	0.075	433 lbs																						
	2-27	0.271	1,600 lbs	5-24	0.214	-1,730 lbs	12-18	0.056	-452 lbs																						
	2-26	0.152	-1,356 lbs	5-23	0.201	1,201 lbs	13-18	0.079	474 lbs																						
	3-26	0.231	1,343 lbs	6-23	0.131	-1,027 lbs	13-17	0.078	-637 lbs																						
	3-25	0.130	-1,182 lbs	6-21	0.086	497 lbs	14-17	0.117	704 lbs																						
Truss to Truss Connection Summary																															
Carried Truss				Carrying Chord				Carrying Offset																							
FG01				TC				13-6-12																							
Notes																															
1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.																															
2) Unless otherwise specified by the Building Designer, one strongback every 10'-0".																															
3) The fabrication tolerance for this floor truss is 10 % (Cq = 0.90).																															
4) A creep factor of 1.00 has been applied for this truss analysis.																															
5) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.																															
6) <input type="checkbox"/> Indicates non-structural members.																															
7) Due to negative reactions in gravity load cases, special connections to the bearing surface at joint 28 may need to be considered.																															
8) The forces shown for this multi-ply truss are per ply and the reactions are for all plies. Two identical trusses shall be built and attached as follows: SDS Simpson 0.250"x6" Screws TC - 1 row @ 1-9-8 oc, BC - 1 row @ 2-0-0 oc, Webs - 1 @ 2-0-0 oc, minimum one fastener per web.																															
Provided the hanger connections do not adequately transfer the applied load to all plies: in addition to connectors shown above, attach girder plies with supplemental SDS Simpson 0.250"x6" Screws as follows within 24" of the location shown:																															
TC: 13-6-12,(2)Connectors																															
Connectors shall not encroach on other girder ply connectors or truss-to-truss connectors in accordance with the NDS or the connector manufacturer recommendations.																															
9) Screws shall be installed in the same truss ply that the hangers are attached to. If both plies are loaded, the screws shall be divided between the two plies, with the spacing on each side twice the minimum indicated.																															
10) Strongbacks shall be attached to each ply.																															
11) Center screw vertically on the 1-1/2" dimension of chords and webs. If splitting occurs, it may be necessary to pre-drill the holes in accordance with the NDS.																															
12) Install screws per manufacturer recommendations.																															
ALL PERSONS FABRICATING, HANDLING, ERECTING OR INSTALLING ANY TRUSS BASED UPON THIS TRUSS DESIGN DRAWING ARE INSTRUCTED TO REFER TO ALL OF THE INSTRUCTIONS, LIMITATIONS AND QUALIFICATIONS SET FORTH IN THE EAGLE METAL PRODUCTS DESIGN NOTES ISSUED WITH THIS DESIGN AND AVAILABLE FROM EAGLE UPON REQUEST. DESIGN VALID ONLY WHEN EAGLE METAL CONNECTORS ARE USED.																		TrueBuild@Truss Software v5.7.13 Eagle Metal Products													

Quality Line Truss Co., LLC

34593 S 4350 RD
Address 2
Adair, OK 74330

Truss:FG03

Job: QU02705_RESERVE BLDG J_REFRE!

Date: 11/27/24 10:54:49

Page: 1 of 2

SPAN
13-10-8

PITCH
0/12

QTY
1

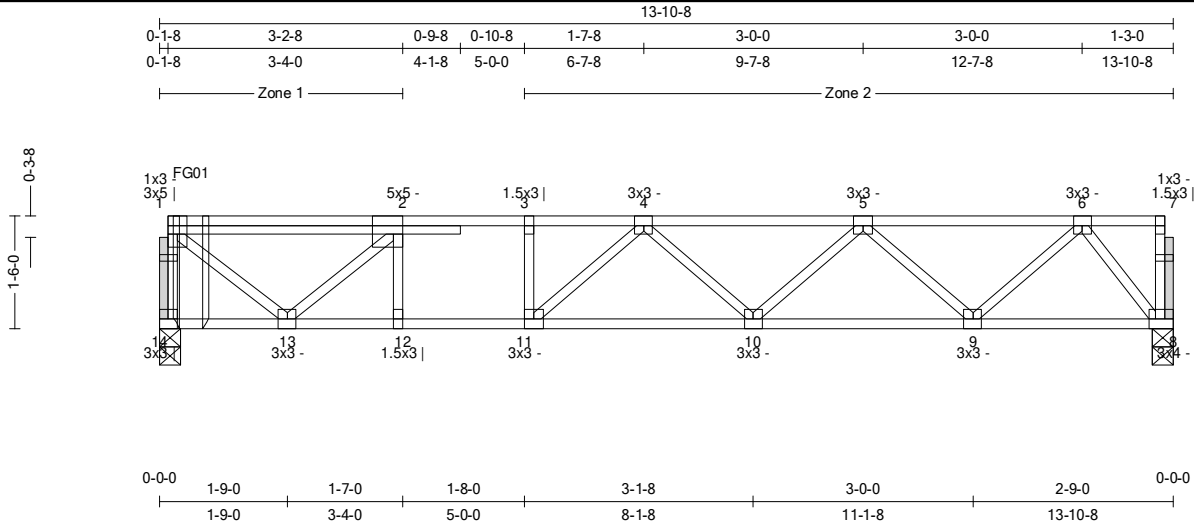
OHL
0-0-0

OHR
0-0-0

PLYS
1

SPACING
25.84 in

WGT/PLY
76 lbs



All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
Carried Loads (psf)	Bldg Code: IBC 2018/	TC: 0.38 (2-3)	Vert TL: 0.1 in	L/999	(10-11)	L/240
TCLL: 40	TPI 1-2014	BC: 0.38 (11-12)	Vert LL: 0.07 in	L/999	(10-11)	L/360
TCDL: 10	Rep Mbr: No	Web: 0.13 (1-14)	Horz TL: 0.01 in		8	
BCLL: 0	Lumber D.O.L.: 100 %					
BCDL: 10						

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
14	1	3.5 in	1.50 in	1,108 lbs	.	.	.	.	.
8	1	3.5 in	1.50 in	400 lbs	.	.	.	.	.

Material

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

Loads

1) Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Load Case L1: Std Live Load

Distributed Loads

Member	Location 1	Location 2	Direction	Spread	Start Load	End Load	Trib Width
Top	0-0-0	13-10-8	Down	Proj	12.4 plf	12.4 plf	
Top	0-0-0	0-5-4	Down	Proj	19.58 plf	19.58 plf	
Top	0-5-4	13-10-8	Down	Proj	19.58 plf	19.58 plf	

Load Case D1: Std Dead Load

Distributed Loads

Member	Location 1	Location 2	Direction	Spread	Start Load	End Load	Trib Width
Top	0-0-0	13-10-8	Down	Proj	3.1 plf	3.1 plf	
Top	0-0-0	0-5-4	Down	Proj	4.9 plf	4.9 plf	
Top	0-5-4	13-10-8	Down	Proj	4.9 plf	4.9 plf	
Bot	0-0-0	13-10-8	Down	Proj	3.1 plf	3.1 plf	
Bot	0-0-0	0-5-4	Down	Proj	4.9 plf	4.9 plf	
Bot	0-5-4	13-10-8	Down	Proj	4.9 plf	4.9 plf	

Member Forces

Table indicates: Member ID, max CSI, max axial force, (max compr. force if different from max axial force). Only forces greater than 300lbs are shown in this table.

TC	1-2	0.320	-452 lbs	3-4	0.233	-901 lbs	5-6	0.141	-593 lbs
	2-3	0.380	-905 lbs	4-5	0.149	-963 lbs			
BC	9-10	0.227	846 lbs	11-12	0.379	901 lbs			
	10-11	0.321	1,010 lbs	12-13	0.379	901 lbs			
Web	1-14	0.125	-1,089 lbs	5-9	0.042	-343 lbs			
	1-13	0.098	-591 lbs	6-9	0.068	-409 lbs			
	2-13	0.070	-592 lbs	6-8	0.053	-477 lbs			

Truss to Truss Connection Summary

Carried Truss	Carrying Chord	Carrying Offset
FG01	TC	0-5-4

ALL PERSONS FABRICATING, HANDLING, ERECTING OR INSTALLING ANY TRUSS BASED UPON THIS TRUSS DESIGN DRAWING ARE INSTRUCTED TO REFER TO ALL OF THE INSTRUCTIONS, LIMITATIONS AND QUALIFICATIONS SET FORTH IN THE EAGLE METAL PRODUCTS DESIGN NOTES ISSUED WITH THIS DESIGN AND AVAILABLE FROM EAGLE UPON REQUEST. DESIGN VALID ONLY WHEN EAGLE METAL CONNECTORS ARE USED.

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	Quality Line Truss Co., LLC 34593 S 4350 RD Address 2 Adair, OK 74330					Truss:FG03 Job: QU02705_RESERVE BLDG J_REFER' Date: 11/27/24 10:54:49 Page: 2 of 2
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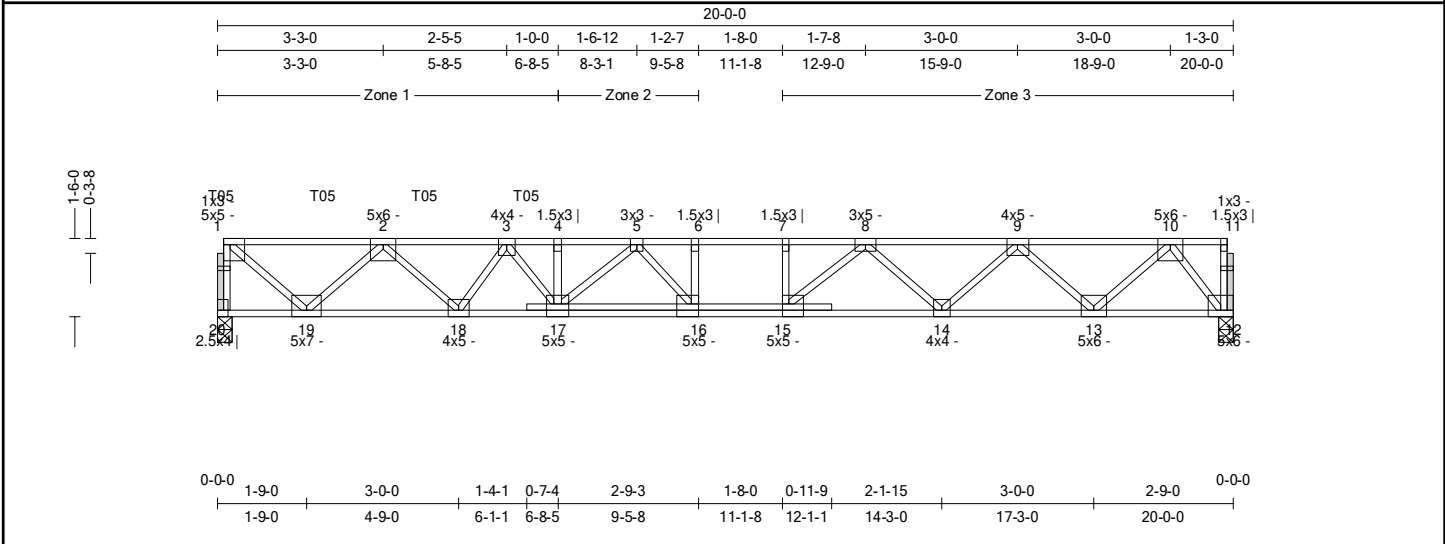
SPAN 13-10-8	PITCH 0/12	QTY 1	OHL 0-0-0	OHR 0-0-0	PLYS 1	SPACING 25.84 in	WGT/PLY 76 lbs
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Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) Unless otherwise specified by the Building Designer, one strongback every 10'-0".
- 3) The fabrication tolerance for this floor truss is 10 % (Cq = 0.90).
- 4) A creep factor of 1.00 has been applied for this truss analysis.
- 5) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 6) ☐ Indicates non-structural members.

Quality Line Truss Co., LLC 34593 S 4350 RD Address 2 Adair, OK 74330				Truss:FG04 Job: QU02705_RESERVE BLDG J_REFRE! Date: 11/27/24 10:54:51 Page: 1 of 2
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SPAN 20-0-0	PITCH 0/12	QTY 1	OHL 0-0-0	OHR 0-0-0	PLYS 2	SPACING 50.84 in	WGT/PLY 114 lbs
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All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
Carried Loads (psf)	Bldg Code: IBC 2018/	TC: 0.76 (2-3)	Vert TL: 0.45 in	L/ 522	16	L/ 240
TCLL: 40	TPI 1-2014	BC: 0.95 (14-15)	Vert LL: 0.24 in	L/ 961	(15-16)	L/ 360
TCDL: 10	Rep Mbr: No	Web: 0.35 (1-19)	Horz TL: 0.09 in		12	
BCLL: 0	Lumber D.O.L.: 100 %					
BCDL: 10						

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
20	1	3.5 in	1.50 in	2,984 lbs	.	.	.	.	.
12	1	3.5 in	1.50 in	2,967 lbs	.	.	.	.	.

Material

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

Loads

- This truss has been designed for the effects of (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.
- This truss has not been designed for the effects of unbalanced snow loads.
- Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Load Case L1: Std Live Load

Distributed Loads

Member	Location 1	Location 2	Direction	Spread	Start Load	End Load	Trib Width
Top	0-0-0	20-0-0	Down	Proj	140.52 plf	140.52 plf	
Top	7-0-12	20-0-0	Down	Proj	28.96 plf	28.96 plf	

Load Case D1: Std Dead Load

Distributed Loads

Member	Location 1	Location 2	Direction	Spread	Start Load	End Load	Trib Width
Top	0-0-0	20-0-0	Down	Proj	35.13 plf	35.13 plf	
Top	7-0-12	20-0-0	Down	Proj	7.24 plf	7.24 plf	
Bot	0-0-0	20-0-0	Down	Proj	35.13 plf	35.13 plf	
Bot	7-0-12	20-0-0	Down	Proj	7.24 plf	7.24 plf	

Point Loads

Member	Location	Direction	Load	Trib Width
Top	6-8-5	Down	43 lbs	

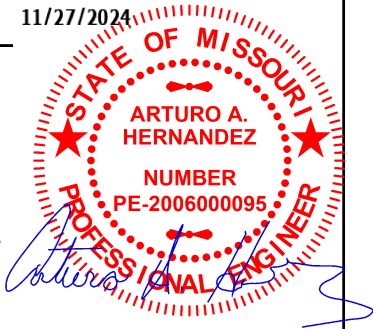
Member Forces

Table indicates: Member ID, max CSI, max axial force, (max compr. force if different from max axial force). Only forces greater than 300lbs are shown in this table.

TC	1-2	0.679	-1,478 lbs	4-5	0.536	-4,875 lbs	7-8	0.583	-5,441 lbs
	2-3	0.755	-3,720 lbs	5-6	0.573	-5,441 lbs	8-9	0.690	-4,236 lbs
	3-4	0.524	-4,875 lbs	6-7	0.591	-5,441 lbs	9-10	0.484	-2,363 lbs
BC	12-13	0.314	1,098 lbs	14-15	0.953	4,958 lbs	16-17	0.704	5,283 lbs
	13-14	0.710	3,487 lbs	15-16	0.692	5,441 lbs	17-18	0.820	4,331 lbs
Web	1-20	0.174	-1,469 lbs	3-17	0.149	900 lbs	9-14	0.168	1,016 lbs
	1-19	0.349	1,968 lbs	5-17	0.071	-533 lbs	9-13	0.187	-1,525 lbs
	2-19	0.233	-1,789 lbs	5-16	0.097	511 lbs	10-13	0.284	1,716 lbs
	2-18	0.208	1,253 lbs	8-15	0.147	771 lbs	10-12	0.202	-1,796 lbs
	3-18	0.125	-1,078 lbs	8-14	0.125	-976 lbs			

ALL PERSONS FABRICATING, HANDLING, ERECTING OR INSTALLING ANY TRUSS BASED UPON THIS TRUSS DESIGN DRAWING ARE INSTRUCTED TO REFER TO ALL OF THE INSTRUCTIONS, LIMITATIONS AND QUALIFICATIONS SET FORTH IN THE EAGLE METAL PRODUCTS DESIGN NOTES ISSUED WITH THIS DESIGN AND AVAILABLE FROM EAGLE UPON REQUEST. DESIGN VALID ONLY WHEN EAGLE METAL CONNECTORS ARE USED.

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		Quality Line Truss Co., LLC 34593 S 4350 RD Address 2 Adair, OK 74330				Truss:FG04 Job: QU02705_RESERVE BLDG J_REFER' Date: 11/27/24 10:54:51 Page: 2 of 2																
SPAN 20'-0"	PITCH 0/12	QTY 1	OHL 0'-0"	OHR 0'-0"	PLYS 2	SPACING 50.84 in	WGT/PLY 114 lbs															
Truss to Truss Connection Summary <table><tr><td>Carried Truss</td><td>Carrying Chord</td><td>Carrying Offset</td></tr><tr><td>T05</td><td>TC</td><td>0'-0"-12</td></tr><tr><td>T05</td><td>TC</td><td>2'-0"-12</td></tr><tr><td>T05</td><td>TC</td><td>4'-0"-12</td></tr><tr><td>T05</td><td>TC</td><td>6'-0"-12</td></tr></table> Notes <p>1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.</p> <p>2) Unless otherwise specified by the Building Designer, one strongback every 10'-0".</p> <p>3) The fabrication tolerance for this floor truss is 10 % (Cq = 0.90).</p> <p>4) A creep factor of 1.00 has been applied for this truss analysis.</p> <p>5) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.</p> <p>6) <input type="checkbox"/> Indicates non-structural members.</p> <p>7) The forces shown for this multi-ply truss are per ply and the reactions are for all plies. Two identical trusses shall be built and attached as follows: SDS Simpson 0.250"x6" Screws TC - 1 row @ 1'-10"-8 oc, BC - 1 row @ 2'-0"-0 oc, Webs - 1 @ 2'-0"-0 oc, minimum one fastener per web.</p> <p>Provided the hanger connections do not adequately transfer the applied load to all plies: in addition to connectors shown above, attach girder plies with supplemental SDS Simpson 0.250"x6" Screws as follows within 24" of the location shown:</p> <p>TC: 0'-0"-12,(1)Connectors TC: 2'-0"-12,(1)Connectors TC: 4'-0"-12,(1)Connectors TC: 6'-0"-12,(1)Connectors TC: 6'-8"-5,(1)Connectors</p> <p>Connectors shall not encroach on other girder ply connectors or truss-to-truss connectors in accordance with the NDS or the connector manufacturer recommendations.</p> <p>8) Screws shall be installed in the same truss ply that the hangers are attached to. If both plies are loaded, the screws shall be divided between the two plies, with the spacing on each side twice the minimum indicated.</p> <p>9) Strongbacks shall be attached to each ply.</p> <p>10) Center screw vertically on the 1-1/2" dimension of chords and webs. If splitting occurs, it may be necessary to pre-drill the holes in accordance with the NDS.</p> <p>11) Install screws per manufacturer recommendations.</p>								Carried Truss	Carrying Chord	Carrying Offset	T05	TC	0'-0"-12	T05	TC	2'-0"-12	T05	TC	4'-0"-12	T05	TC	6'-0"-12
Carried Truss	Carrying Chord	Carrying Offset																				
T05	TC	0'-0"-12																				
T05	TC	2'-0"-12																				
T05	TC	4'-0"-12																				
T05	TC	6'-0"-12																				
ALL PERSONS FABRICATING, HANDLING, ERECTING OR INSTALLING ANY TRUSS BASED UPON THIS TRUSS DESIGN DRAWING ARE INSTRUCTED TO REFER TO ALL OF THE INSTRUCTIONS, LIMITATIONS AND QUALIFICATIONS SET FORTH IN THE EAGLE METAL PRODUCTS DESIGN NOTES ISSUED WITH THIS DESIGN AND AVAILABLE FROM EAGLE UPON REQUEST. DESIGN VALID ONLY WHEN EAGLE METAL CONNECTORS ARE USED.						TrueBuild® Truss Software v5.7.13 Eagle Metal Products																

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Address 2

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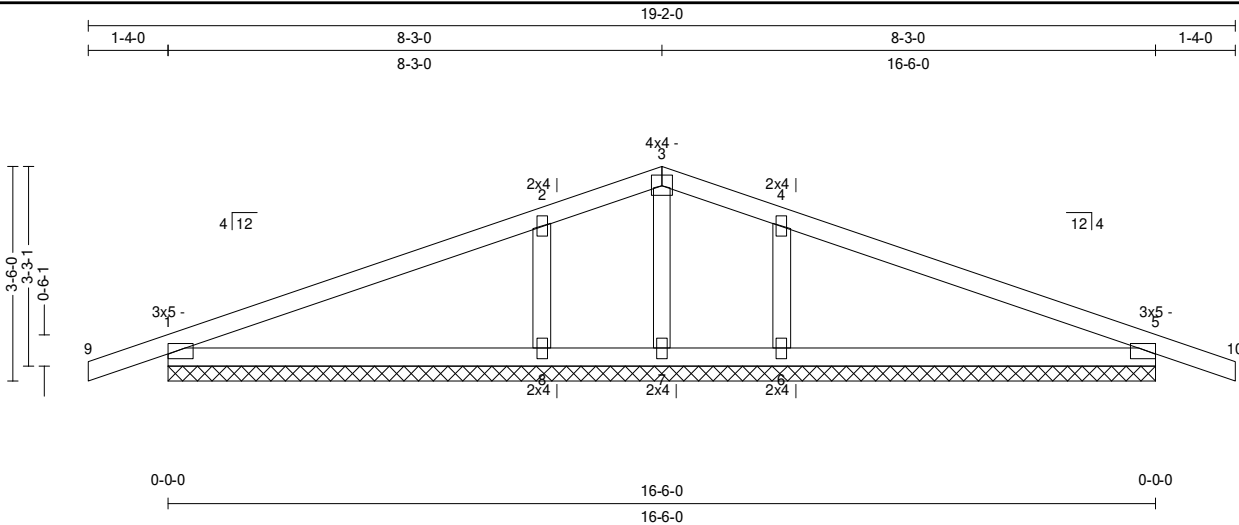
Truss:GE01

Job: QU02705_RESERVE BLDG J_REFRE

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SPAN	PITCH	QTY	OHL	OHR	CANT L	CANT R	PLYS	SPACING	WGT/PLY
16-6-0	4/12	1	1-4-0	1-4-0	0-0-0	0-0-0	1	24 in	61 lbs



All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 20	Bldg Code: IBC 2018/	TC: 0.38 (4-5)	Vert TL: 0.02 in	L/999	(5-6)	L/240
TCDL: 10	TPI 1-2014	BC: 0.20 (5-6)	Vert LL: 0 in	L/999	5	L/360
BCLL: 0	Rep Mbr: No	Web: 0.05 (4-6)	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 Uplift	Max C&C Uplift	Max Uplift	Max Horiz
1		1,221 lbs	240 plf	-889 lbs	-134 lbs	-453 lbs	-889 lbs	689 lbs

Material

TC: SYP#1 2 x 4
BC: SYP#1 2 x 4
Web: SYP#2 2 x 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) and unbalanced 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 been designed to account for the effects of ice dams forming at the eaves.
- 3) 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 axial force, (max compr. force if different from max axial force). Only forces greater than 300lbs are shown in this table.

TC	1-2	0.375	1,051 lbs	(422 lbs)			
	4-5	0.375	1,051 lbs	(422 lbs)			
BC							
Web	2-8	0.050	-355 lbs		4-6	0.050	-355 lbs

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 1.00 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) Due to negative reactions in gravity load cases, special connections to the bearing surface at joints 7, 5, 1 may need to be considered.
- 10) Listed wind uplift reactions based on MWFRS & C&C loading.

11/27/2024



ALL PERSONS FABRICATING, HANDLING, ERECTING OR INSTALLING ANY TRUSS BASED UPON THIS TRUSS DESIGN DRAWING ARE INSTRUCTED TO REFER TO ALL OF THE INSTRUCTIONS, LIMITATIONS AND QUALIFICATIONS SET FORTH IN THE EAGLE METAL PRODUCTS DESIGN NOTES ISSUED WITH THIS DESIGN AND AVAILABLE FROM EAGLE UPON REQUEST. DESIGN VALID ONLY WHEN EAGLE METAL CONNECTORS ARE USED.

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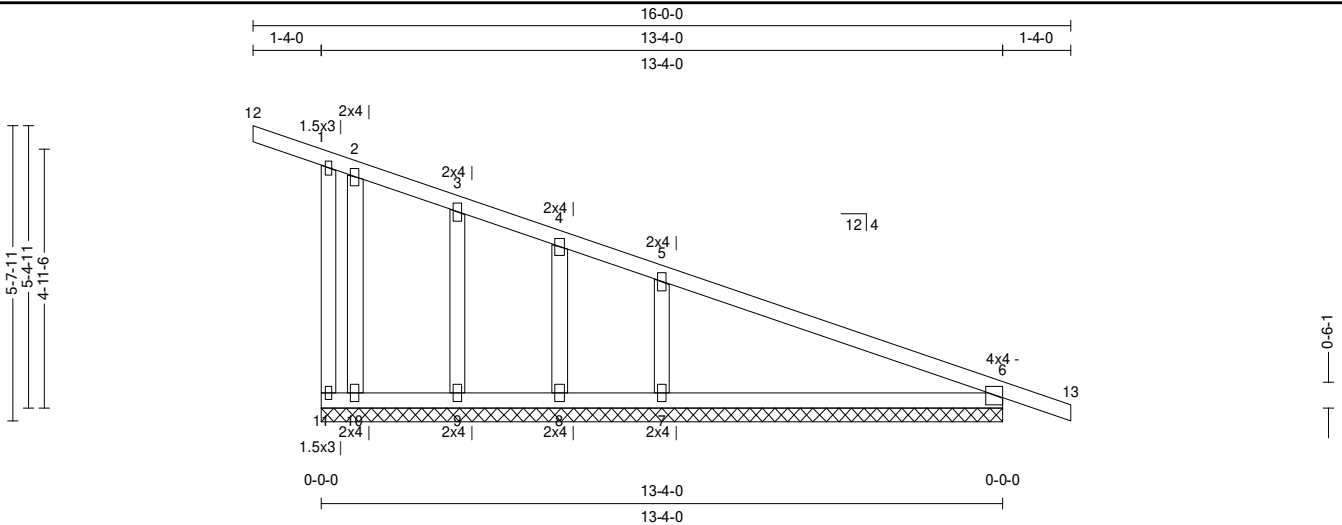
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Job: QU02705_RESERVE BLDG J_REFER

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SPAN	PITCH	QTY	OHL	OHR	CANT L	CANT R	PLYS	SPACING	WGT/PLY
13-4-0	-4/12	1	1-4-0	1-4-0	0-0-0	0-0-0	1	24 in	67 lbs



All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 20	Bldg Code: IBC 2018/	TC: 0.52 (5-6)	Vert TL: 0.03 in	L/999	(6-7)	L/240
TCDL: 10	TPI 1-2014	BC: 0.28 (6-7)	Vert LL: 0 in UP	L/999	(6-7)	L/360
BCLL: 0	Rep Mbr: No	Web: 0.23 (1-11)	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 Uplift	Max C&C Uplift	Max Uplift	Max Horiz
1		1,654 lbs	246 plf	-1,283 lbs	-250 lbs	-788 lbs	-1,283 lbs	893 lbs

Material

TC: SYP#1 2 x 4
BC: SYP#1 2 x 4
Web: SYP#2 2 x 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) and unbalanced 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 been designed to account for the effects of ice dams forming at the eaves.
3) 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 axial force, (max compr. force if different from max axial force). Only forces greater than 300lbs are shown in this table.

TC	5-6	0.516	1,466 lbs	(-794 lbs)
BC				
Web	1-11	0.230	303 lbs	(-183 lbs)
	5-7	0.053	-347 lbs	

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 1.00 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) Due to negative reactions in gravity load cases, special connections to the bearing surface at joints 8, 10, 6 may need to be considered.
- 10) Listed wind uplift reactions based on MWFRS & C&C loading.

11/27/2024



ALL PERSONS FABRICATING, HANDLING, ERECTING OR INSTALLING ANY TRUSS BASED UPON THIS TRUSS DESIGN DRAWING ARE INSTRUCTED TO REFER TO ALL OF THE INSTRUCTIONS, LIMITATIONS AND QUALIFICATIONS SET FORTH IN THE EAGLE METAL PRODUCTS DESIGN NOTES ISSUED WITH THIS DESIGN AND AVAILABLE FROM EAGLE UPON REQUEST. DESIGN VALID ONLY WHEN EAGLE METAL CONNECTORS ARE USED.

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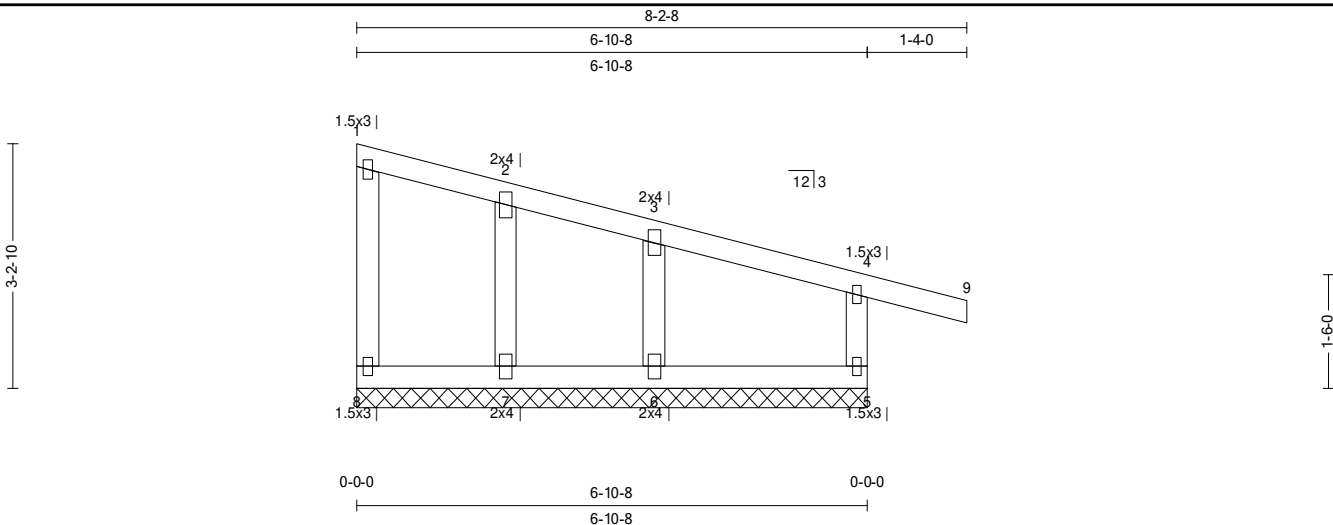
Truss:GE03

Job: QU02705_RESERVE BLDG J_REFER

Date: 11/27/24 10:54:35

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SPAN	PITCH	QTY	OHL	OHR	CANT L	CANT R	PLYS	SPACING	WGT/PLY
6-10-8	-3/12	2	0-0-0	1-4-0	0-0-0	0-0-0	1	24 in	32 lbs



All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 20	Bldg Code: IBC 2018/	TC: 0.25 (4-9)	Vert TL: 0 in	L/999	(5-6)	L/240
TCDL: 10	TPI 1-2014	BC: 0.06 (5-6)	Vert LL: 0 in	L/999	5	L/360
BCLL: 0	Rep Mbr: No	Web: 0.42 (4-5)	Horz TL: 0 in			
BCDL: 10	Lumber D.O.L.: 115 %					

11/27/2024

Reaction

Brg Combo	Brg Width	Max React	Ave React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
1		230 lbs	95 plf		-54 lbs	-228 lbs	-228 lbs	-172 lbs

Material

TC: SYP#1 2 x 4
BC: SYP#1 2 x 4
Web: SYP#2 2 x 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 axial force, (max compr. force if different from max axial 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 1.5x3 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 1.00 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.



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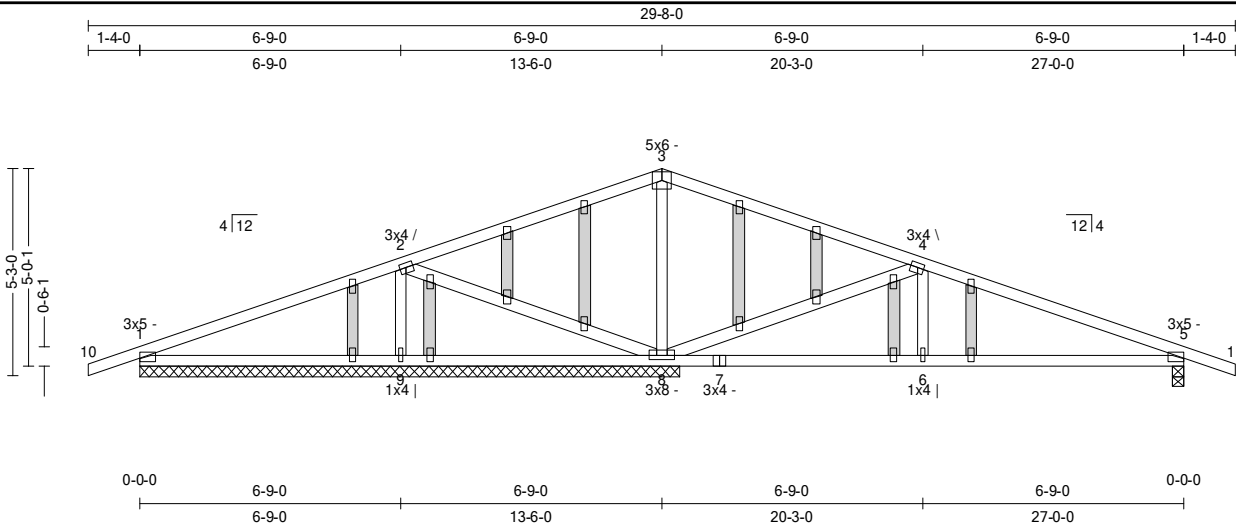
Truss:SGE01

Job: QU02705_RESERVE BLDG J_REFRE

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SPAN	PITCH	QTY	OHL	OHR	CANT L	CANT R	PLYS	SPACING	WGT/PLY
27-0-0	4/12	1	1-4-0	1-4-0	0-0-0	0-0-0	1	24 in	139 lbs



All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 20	Bldg Code: IBC 2018/	TC: 0.62 (3-4)	Vert TL: 0.11 in	L / 999	(5-6)	L / 240
TCDL: 10	TPI 1-2014	BC: 0.49 (5-6)	Vert LL: 0.04 in	L / 999	(5-6)	L / 360
BCLL: 0	Rep Mbr: No	Web: 0.84 (4-8)	Horz TL: 0.01 in		5	
BCDL: 10	Lumber D.O.L.: 115 %					

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
5	1	3.5 in	1.50 in	625 lbs	-	-64 lbs	-185 lbs	-185 lbs	-
8	1	167.5 in	N/A	1,327 lbs	-	-75 lbs	-252 lbs	-252 lbs	124 lbs
9	1	167.5 in	N/A	557 lbs	-	-40 lbs	-77 lbs	-77 lbs	-
1	1	167.5 in	N/A	88 lbs	-1,288 lbs	-144 lbs	-	-1,288 lbs	-924 lbs
1	1	167.5 in	N/A	1,684 lbs	-	-133 lbs	-150 lbs	-150 lbs	850 lbs

Material

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

- This truss has been designed for the effects of balanced (14 psf) and unbalanced 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.
- This truss has been designed to account for the effects of ice dams forming at the eaves.
- 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
- Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Member Forces

Table indicates: Member ID, max CSI, max axial force, (max compr. force if different from max axial force). Only forces greater than 300lbs are shown in this table.

TC	1-2	0.533	1,502 lbs	(-143 lbs)	3-4	0.619	421 lbs
	2-3	0.585	384 lbs		4-5	0.447	-808 lbs
BC	5-6	0.489	714 lbs	(-10 lbs)	6-8	0.489	714 lbs
Web	2-9	0.043	-337 lbs		4-8	0.842	-1,080 lbs
	3-8	0.207	-605 lbs				

Notes

- Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- Gable webs placed at 24" OC, U.N.O.
- Attach structural gable blocks with 2x4 20ga plates, U.N.O.
- Bracing shown is for in-plane requirements. For out-of-plane requirements, refer to BCSI-B3 published by the SBCA.
- The fabrication tolerance for this roof truss is 20 % (Cq = 0.80).
- A creep factor of 1.00 has been applied for this truss analysis.
- The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- Indicates non-structural members.
- Due to negative reactions in gravity load cases, special connections to the bearing surface at joint 1 may need to be considered.
- Listed wind uplift reactions based on MWFRS & C&C loading.

ALL PERSONS FABRICATING, HANDLING, ERECTING OR INSTALLING ANY TRUSS BASED UPON THIS TRUSS DESIGN DRAWING ARE INSTRUCTED TO REFER TO ALL OF THE INSTRUCTIONS, LIMITATIONS AND QUALIFICATIONS SET FORTH IN THE EAGLE METAL PRODUCTS DESIGN NOTES ISSUED WITH THIS DESIGN AND AVAILABLE FROM EAGLE UPON REQUEST. DESIGN VALID ONLY WHEN EAGLE METAL CONNECTORS ARE USED.

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34593 S 4350 RD

Address 2

Adair, OK 74330

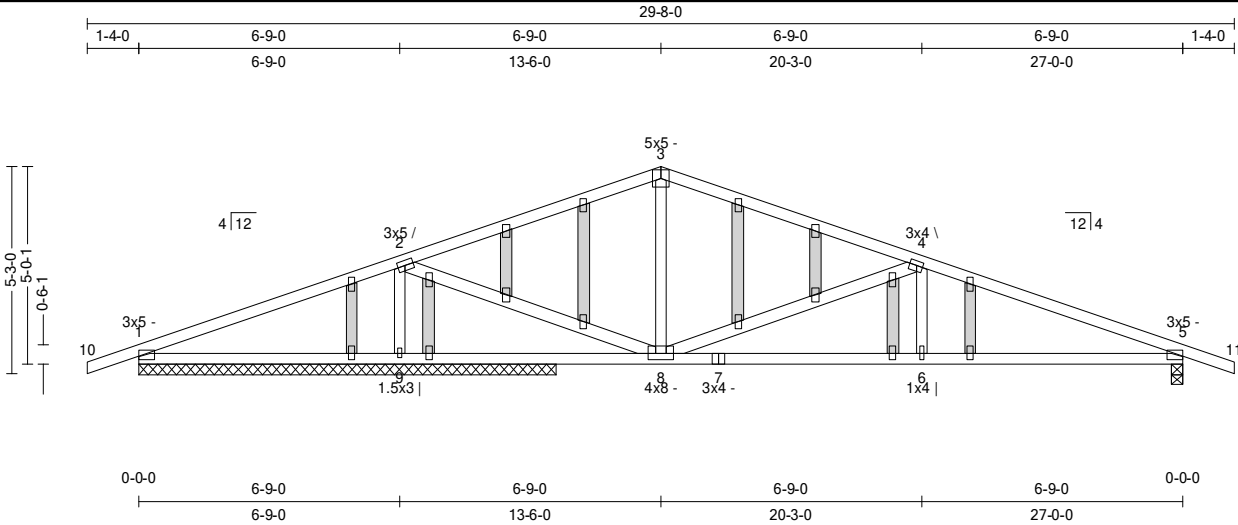
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Job: QU02705_RESERVE BLDG J_REFRE

Date: 11/27/24 10:54:38

Page: 1 of 1

SPAN	PITCH	QTY	OHL	OHR	CANT L	CANT R	PLYS	SPACING	WGT/PLY
27-0-0	4/12	1	1-4-0	1-4-0	0-0-0	0-0-0	1	24 in	139 lbs



All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 20	Bldg Code: IBC 2018/	TC: 0.65 (1-2)	Vert TL: 0.17 in	L/999	(6-7)	L/240
TCDL: 10	TPI 1-2014	BC: 0.63 (6-8)	Vert LL: 0.05 in	L/999	(6-7)	L/360
BCLL: 0	Rep Mbr: No	Web: 0.78 (4-8)	Horz TL: 0.03 in		5	
BCDL: 10	Lumber D.O.L.: 115 %					

11/27/2024

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
5	1	3.5 in	1.50 in	1,016 lbs	-	-87 lbs	-262 lbs	-262 lbs	-
9	1	129.5 in	N/A	1,591 lbs	-	-94 lbs	-271 lbs	-271 lbs	503 lbs
1	1	129.5 in	N/A	94 lbs	-1,728 lbs	-177 lbs	-	-1,728 lbs	-1,194 lbs
1	1	129.5 in	N/A	1,980 lbs	-	-137 lbs	-185 lbs	-185 lbs	709 lbs

Material

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

Bracing

TC: Sheathed or Purlins at 4-1-0, Purlin design by Others.
BC: Sheathed or Purlins at 8-5-0, Purlin design by Others.

Loads

- 1) This truss has been designed for the effects of balanced (14 psf) and unbalanced 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 been designed to account for the effects of ice dams forming at the eaves.
- 3) 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
- 4) Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Member Forces

Table indicates: Member ID, max CSI, max axial force, (max compr. force if different from max axial force). Only forces greater than 300lbs are shown in this table.

TC	1-2	0.649	1,967 lbs	(-199 lbs)	3-4	0.460	-926 lbs		
	2-3	0.470	-928 lbs		4-5	0.409	-1,912 lbs		
BC	5-6	0.566	1,755 lbs	(-216 lbs)	6-8	0.630	1,755 lbs	(-216 lbs)	8-9
Web	2-9	0.169	-1,315 lbs		4-8	0.776	-996 lbs		0.295
	2-8	0.230	1,388 lbs	(-240 lbs)					-503 lbs

Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) Gable webs placed at 24" OC, U.N.O.
- 3) Attach structural gable blocks with 2x4 20ga plates, U.N.O.
- 4) Bracing shown is for in-plane requirements. For out-of-plane requirements, refer to BCSI-B3 published by the SBCA.
- 5) The fabrication tolerance for this roof truss is 20% (Cq = 0.80).
- 6) A creep factor of 1.00 has been applied for this truss analysis.
- 7) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 8) ☐ Indicates non-structural members.
- 9) Due to negative reactions in gravity load cases, special connections to the bearing surface at joint 1 may need to be considered.
- 10) Listed wind uplift reactions based on MWFRS & C&C loading.

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34593 S 4350 RD

Address 2

Adair, OK 74330

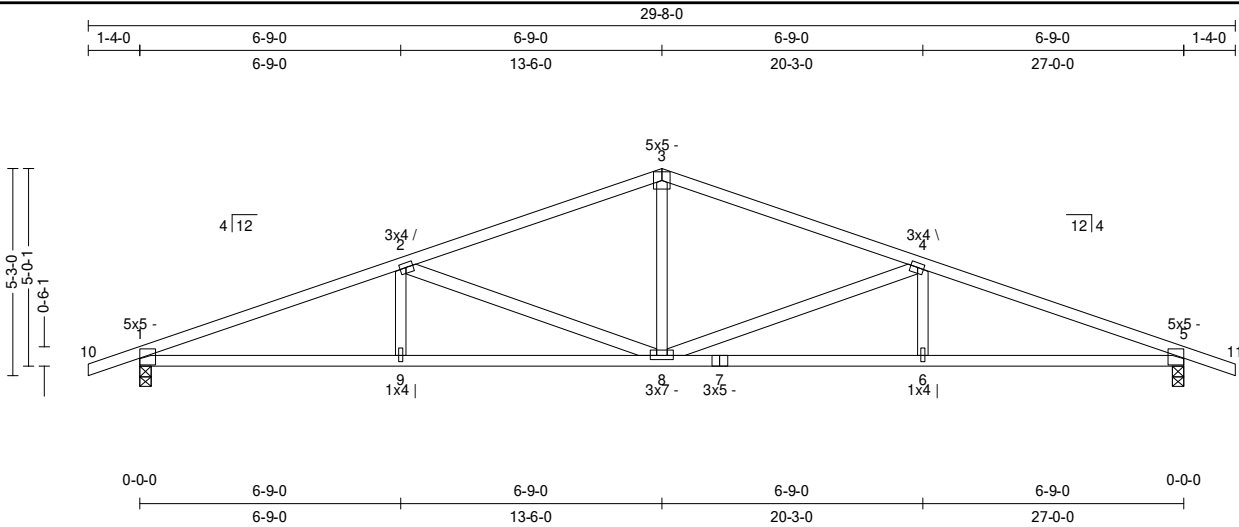
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Job: QU02705_RESERVE BLDG J_REFRE

Date: 11/27/24 10:54:39

Page: 1 of 1

SPAN	PITCH	QTY	OHL	OHR	CANT L	CANT R	PLYS	SPACING	WGT/PLY
27-0-0	4/12	15	1-4-0	1-4-0	0-0-0	0-0-0	1	24 in	114 lbs



All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 20	Bldg Code: IBC 2018/	TC: 0.57 (4-5)	Vert TL: 0.39 in	L/817	(6-7)	L/240
TCDL: 10	TPI 1-2014	BC: 0.80 (5-6)	Vert LL: 0.14 in	L/999	(6-7)	L/360
BCLL: 0	Rep Mbr: Yes	Web: 0.69 (2-8)	Horz TL: 0.11 in		5	
BCDL: 10	Lumber D.O.L.: 115 %					

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
1	1	3.5 in	1.69 in	1,430 lbs		-112 lbs	-331 lbs	-331 lbs	-6 lbs
5	1	3.5 in	1.69 in	1,430 lbs		-112 lbs	-331 lbs	-331 lbs	

Material

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

Bracing

TC: Sheathed or Purlins at 3-4-0, Purlin design by Others.
BC: Sheathed or Purlins at 10-0-0, Purlin design by Others.

Loads

- This truss has been designed for the effects of balanced (14 psf) and unbalanced 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.
- This truss has been designed to account for the effects of ice dams forming at the eaves.
- 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
- Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Member Forces

Table indicates: Member ID, max CSI, max axial force, (max compr. force if different from max axial force). Only forces greater than 300lbs are shown in this table.

TC	1-2	0.567	-3,073 lbs	3-4	0.479	-2,190 lbs										
BC	2-3	0.479	-2,190 lbs	4-5	0.567	-3,073 lbs										
Web	5-6	0.802	2,849 lbs	6-8	0.798	2,849 lbs	8-9	0.798	2,849 lbs	9-1	0.801	2,849 lbs				
	2-8	0.685	-880 lbs	4-8	0.685	-880 lbs										
	3-8	0.150	907 lbs													

Notes

- Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- The fabrication tolerance for this roof truss is 20 % (Cq = 0.80).
- Brace bottom chord with approved sheathing or purlins per Bracing Summary.
- A creep factor of 1.00 has been applied for this truss analysis.
- The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- Listed wind uplift reactions based on MWFRS & C&C loading.

11/27/2024



ALL PERSONS FABRICATING, HANDLING, ERECTING OR INSTALLING ANY TRUSS BASED UPON THIS TRUSS DESIGN DRAWING ARE INSTRUCTED TO REFER TO ALL OF THE INSTRUCTIONS, LIMITATIONS AND QUALIFICATIONS SET FORTH IN THE EAGLE METAL PRODUCTS DESIGN NOTES ISSUED WITH THIS DESIGN AND AVAILABLE FROM EAGLE UPON REQUEST. DESIGN VALID ONLY WHEN EAGLE METAL CONNECTORS ARE USED.

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34593 S 4350 RD

Address 2

Adair, OK 74330

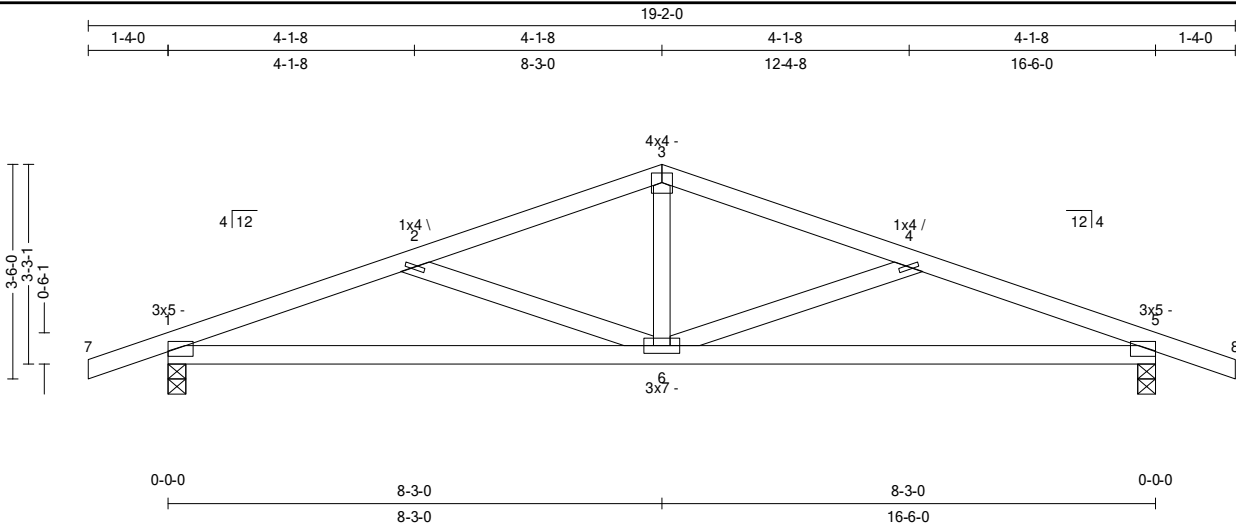
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Job: QU02705_RESERVE BLDG J_REFRE

Date: 11/27/24 10:54:40

Page: 1 of 1

SPAN	PITCH	QTY	OHL	OHR	CANT L	CANT R	PLYS	SPACING	WGT/PLY
16-6-0	4/12	4	1-4-0	1-4-0	0-0-0	0-0-0	1	24 in	68 lbs



All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 20	Bldg Code: IBC 2018/	TC: 0.24 (4-5)	Vert TL: 0.17 in	L/999	(5-6)	L/240
TCDL: 10	TPI 1-2014	BC: 0.62 (6-1)	Vert LL: 0.07 in	L/999	(5-6)	L/360
BCLL: 0	Rep Mbr: Yes	Web: 0.12 (2-6)	Horz TL: 0.04 in		5	
BCDL: 10	Lumber D.O.L.: 115 %					

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
1	1	3.5 in	1.50 in	905 lbs		-78 lbs	-356 lbs	-356 lbs	-7 lbs
5	1	3.5 in	1.50 in	905 lbs		-78 lbs	-356 lbs	-356 lbs	

Material

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

Bracing

TC: Sheathed or Purlins at 4-11-0, Purlin design by Others.
BC: Sheathed or Purlins at 9-6-0, Purlin design by Others.

Loads

- This truss has been designed for the effects of balanced (14 psf) and unbalanced 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.
- This truss has been designed to account for the effects of ice dams forming at the eaves.
- 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
- Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Member Forces

Table indicates: Member ID, max CSI, max axial force, (max compr. force if different from max axial force). Only forces greater than 300lbs are shown in this table.

TC	1-2	0.237	-1,667 lbs	3-4	0.227	-1,343 lbs			
BC	2-3	0.227	-1,343 lbs	4-5	0.237	-1,667 lbs			
Web	5-6	0.621	1,544 lbs	(-455 lbs)	6-1	0.621	1,544 lbs	(-455 lbs)	
	2-6	0.123	-396 lbs	3-6	0.087	526 lbs	(-24 lbs)	4-6	0.123
									-396 lbs

Notes

- Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- The fabrication tolerance for this roof truss is 20 % (Cq = 0.80).
- Brace bottom chord with approved sheathing or purlins per Bracing Summary.
- A creep factor of 1.00 has been applied for this truss analysis.
- The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- Listed wind uplift reactions based on MWFRS & C&C loading.



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Address 2

Adair, OK 74330

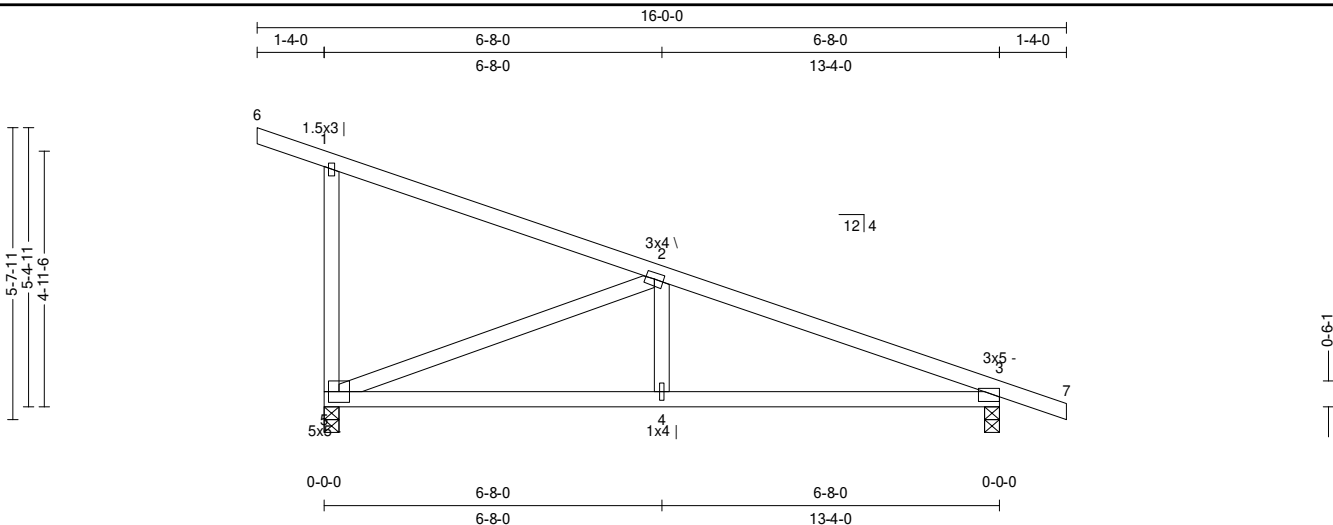
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Job: QU02705_RESERVE BLDG J_REFRE

Date: 11/27/24 10:54:41

Page: 1 of 1

SPAN	PITCH	QTY	OHL	OHR	CANT L	CANT R	PLYS	SPACING	WGT/PLY
13-4-0	-4/12	2	1-4-0	1-4-0	0-0-0	0-0-0	1	24 in	61 lbs



All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 20	Bldg Code: IBC 2018/	TC: 0.46 (2-3)	Vert TL: 0.13 in	L/999	(4-5)	L/240
TCDL: 10	TPI 1-2014	BC: 0.60 (4-5)	Vert LL: 0.05 in	L/999	(4-5)	L/360
BCLL: 0	Rep Mbr: No	Web: 0.81 (2-5)	Horz TL: 0.02 in		3	
BCDL: 10	Lumber D.O.L.: 115 %					

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
5	1	3.5 in	1.50 in	755 lbs	.	-98 lbs	-398 lbs	-398 lbs	-183 lbs
3	1	3.5 in	1.50 in	738 lbs	.	-37 lbs	-325 lbs	-325 lbs	.

Material

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

Bracing

TC: Sheathed or Purlins at 5-3-0, Purlin design by Others.
BC: Sheathed or Purlins at 10-0-0, Purlin design by Others.

Loads

- This truss has been designed for the effects of balanced (14 psf) and unbalanced 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.
- This truss has been designed to account for the effects of ice dams forming at the eaves.
- 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
- Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Member Forces

Table indicates: Member ID, max CSI, max axial force, (max compr. force if different from max axial force). Only forces greater than 300lbs are shown in this table.

TC	2-3	0.464	-1,158 lbs						
BC	3-4	0.601	1,046 lbs	(-166 lbs)	4-5	0.601	1,046 lbs	(-166 lbs)	
Web	2-5	0.815	-1,116 lbs		2-4	0.053	319 lbs		

Notes

- Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- The fabrication tolerance for this roof truss is 20 % (Cq = 0.80).
- Brace bottom chord with approved sheathing or purlins per Bracing Summary.
- A creep factor of 1.00 has been applied for this truss analysis.
- The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- Listed wind uplift reactions based on MWFRS & C&C loading.

11/27/2024



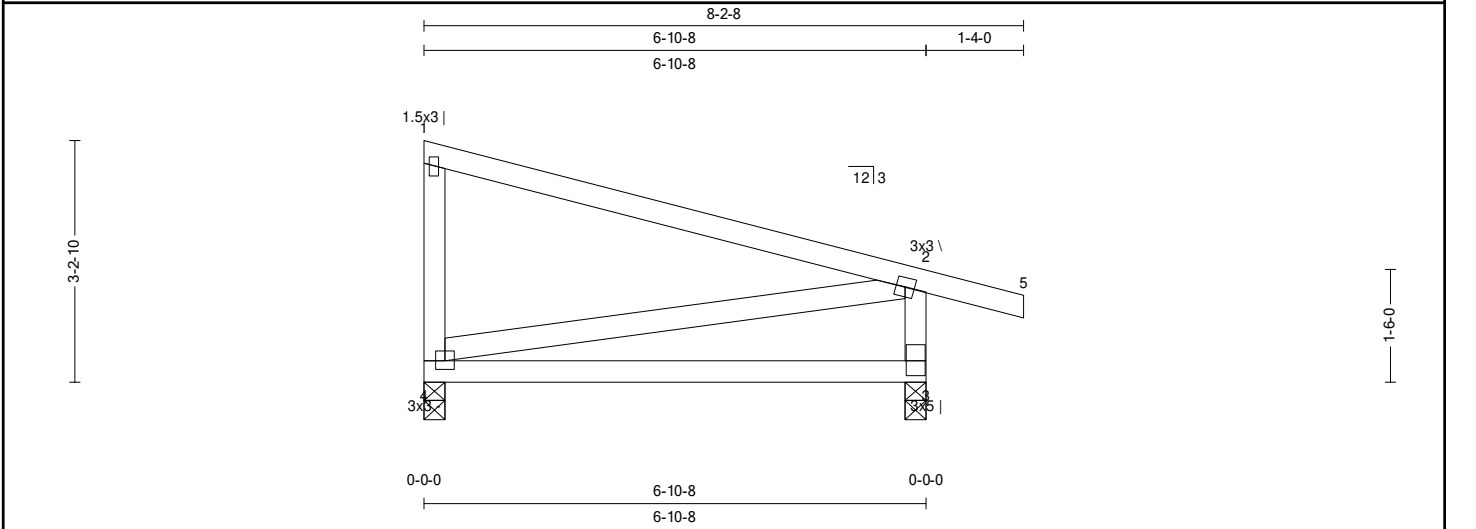
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		Quality Line Truss Co., LLC 34593 S 4350 RD Address 2 Adair, OK 74330				Truss: T04 Job: QU02705_RESERVE BLDG J_REFRE Date: 11/27/24 10:54:42 Page: 1 of 1	
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SPAN 6-10-8	PITCH -3/12	QTY 9	OHL 0-0-0	OHR 1-4-0	CANT L 0-0-0	CANT R 0-0-0	PLYS 1	SPACING 24 in	WGT/PLY 35 lbs
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All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 20	Bldg Code: IBC 2018/	TC: 0.59 (1-2)	Vert TL: 0.2 in	L / 376	(3-4)	L / 240
TCDL: 10	TPI 1-2014	BC: 0.43 (3-4)	Vert LL: 0.1 in	L / 752	(3-4)	L / 360
BCLL: 0	Rep Mbr: Yes	Web: 0.12 (1-4)	Horz TL: 0 in		4	
BCDL: 10	Lumber D.O.L.: 115 %					

Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
4	1	3.5 in	1.50 in	334 lbs	-	-37 lbs	-262 lbs	-262 lbs	-
3	1	3.5 in	1.50 in	434 lbs	-	-49 lbs	-383 lbs	-383 lbs	-130 lbs

Material

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

- 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.
- This truss has not been designed for the effects of unbalanced snow loads.
- This truss has been designed to account for the effects of ice dams forming at the eaves.
- 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
- Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

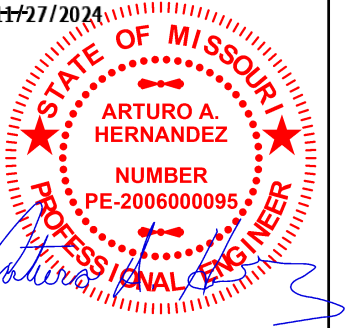
Member Forces

Table indicates: Member ID, max CSI, max axial force, (max compr. force if different from max axial force). Only forces greater than 300lbs are shown in this table.

TC					
BC					
Web	2-3	0.067	424 lbs	(-296 lbs)	

Notes

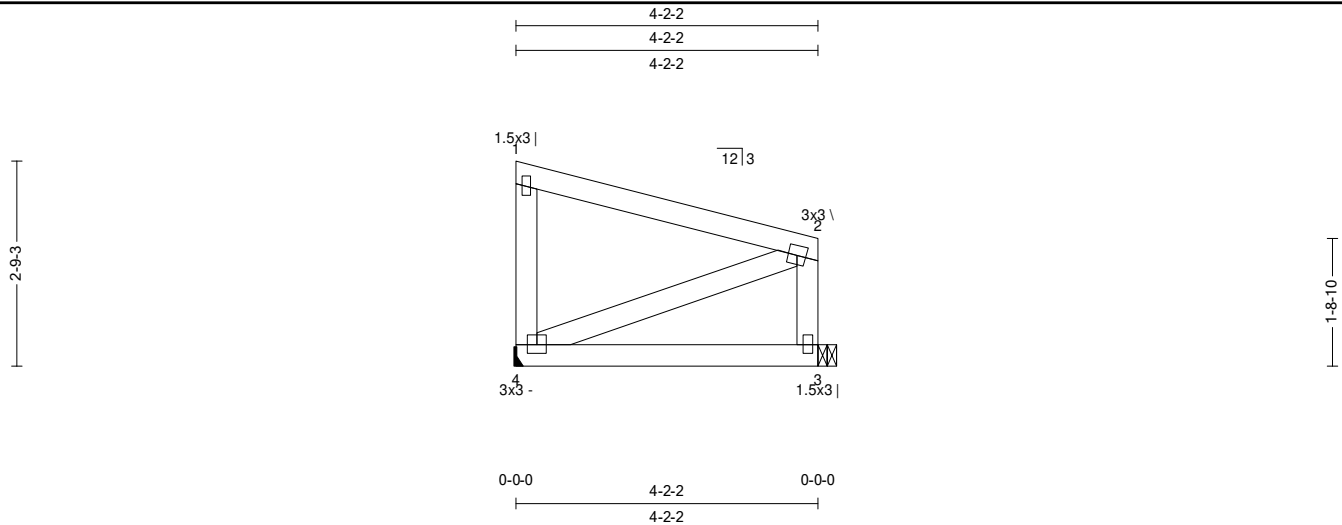
- Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- The fabrication tolerance for this roof truss is 20 % (Cq = 0.80).
- Brace bottom chord with approved sheathing or purlins per Bracing Summary.
- A creep factor of 1.00 has been applied for this truss analysis.
- The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- Listed wind uplift reactions based on MWFRS & C&C loading.



ALL PERSONS FABRICATING, HANDLING, ERECTING OR INSTALLING ANY TRUSS BASED UPON THIS TRUSS DESIGN DRAWING ARE INSTRUCTED TO REFER TO ALL OF THE INSTRUCTIONS, LIMITATIONS AND QUALIFICATIONS SET FORTH IN THE EAGLE METAL PRODUCTS DESIGN NOTES ISSUED WITH THIS DESIGN AND AVAILABLE FROM EAGLE UPON REQUEST. DESIGN VALID ONLY WHEN EAGLE METAL CONNECTORS ARE USED.

TrueBuild® Truss Software v5.7.13
Eagle Metal Products

	<p align="center">Quality Line Truss Co., LLC</p> <p align="center">34593 S 4350 RD</p> <p align="center">Address 2</p> <p align="center">Adair, OK 74330</p>	<p>Truss:T05</p> <p>Job: QU02705_RESERVE BLDG J_REFRE'</p> <p>Date: 11/27/24 10:54:45</p> <p>Page: 1 of 1</p>
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Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 20	Bldg Code: IBC 2018/	TC: 0.28 (1-2)	Vert TL: 0.03 in	L/ 999	(3-4)	L/ 240
TCDL: 10	TPI 1-2014	BC: 0.15 (3-4)	Vert LL: 0.01 in	L/ 999	(3-4)	L/ 360
BCLL: 0	Rep Mbr: Yes	Web: 0.09 (1-4)	Horz TL: 0 in		3	
BCDL: 10	Lumber D.O.L.: 115 %					

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
4	1	1.5 in	---	209 lbs	·	-29 lbs	-214 lbs	-214 lbs	-93 lbs
3	1	1.5 in	1.50 in	209 lbs	·	-11 lbs	-148 lbs	-148 lbs	

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

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

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 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

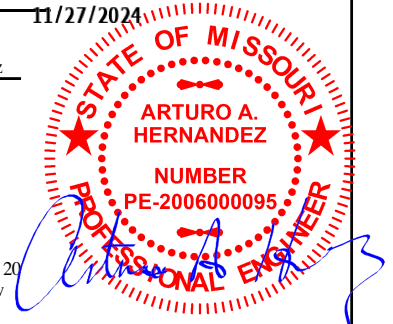
4) Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Table indicates: Member ID, max CSI, max axial force, (max compr. force if different from max axial force). Only forces greater than 300lbs are shown in this table.

TC				
BC				
Web				

- 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 % ($C_q = 0.80$).
- 3) Hanger is for graphical interpretation only. Install hanger per manufacturer's recommendation.
- 4) Nailing schedule shall be specified by truss manufacturer per NDS.
- 5) Brace bottom chord with approved sheathing or purlins per Bracing Summary.
- 6) A creep factor of 1.00 has been applied for this truss analysis.
- 7) The "SYIP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 8) Listed wind uplift reactions based on MWFRS & C&C loading.

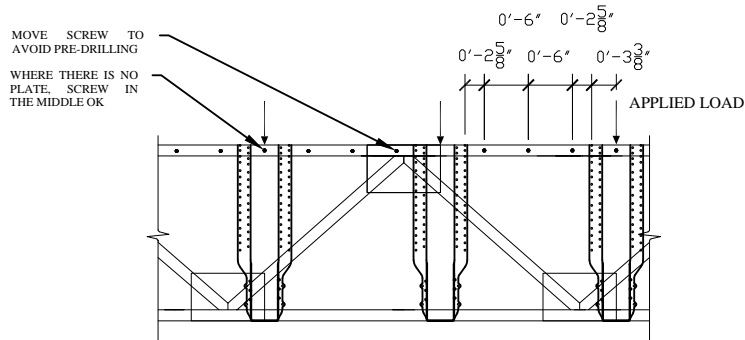
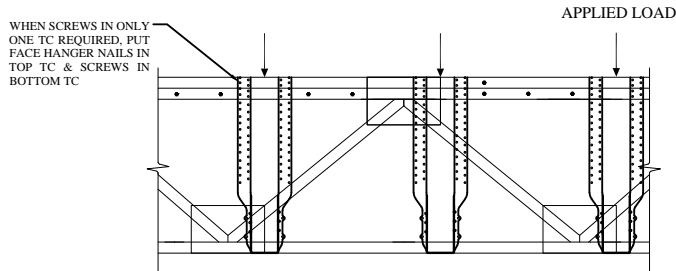
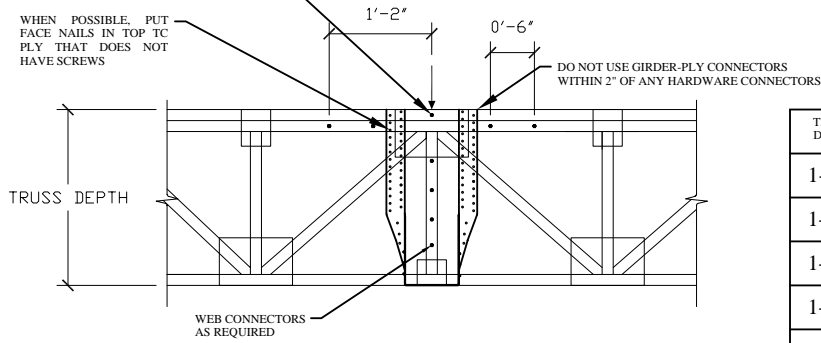
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THA42X-2/THA4XX WITH TRUSSES @ 24"OC OR AN ISOLATED CONNECTION

PER SIMPSON, PRE DRILLING REQUIRED THROUGH THE PLATE USING A MAXIMUM OF 5/32" BIT

WHEN POSSIBLE, PUT FACE NAILS IN TOP TC PLY THAT DOES NOT HAVE SCREWS



1. TO TRANSFER UNIFORM LOADS APPLIED TO SIMPLY SUPPORTED SPANS ON ASSEMBLY TOP CHORD:
 - 1.1. SPACE SCREWS AS REQUIRED TO TRANSFER HALF THE LOAD INTO THE SUPPORTING TRUSS.
 - 1.2. MINIMUM SCREW SPACING SHALL BE 4" O.C.
2. TO TRANSFER CONCENTRATED LOADS APPLIED TO SIMPLY SUPPORTED SPANS ON AN ASSEMBLY TOP CHORD OR VERTICAL WEB:
 - 2.1. CONCENTRATED LOADS MUST BE APPLIED AT THE PANEL JOINTS.
 - 2.2. SCREWS TO BE INSTALLED WITHIN 12" OF THE CONCENTRATED LOAD ON TOP-CHORD ASSEMBLY
3. GAP BETWEEN THE TRUSSES SHALL NOT EXCEED 1/8" O.C.
4. FLOOR SHEATHING SHALL BE SCREWED OR NAILED TO EACH TOP-CHORD PLY. (FASTENER SPACING PER THE APPLICABLE CODE REQUIREMENTS, OR 12" O.C.)
5. SDW SCREWS SHALL NOT BE INSTALLED IN AREAS WHERE LUMBER WANE EXCEEDS 1/4".
6. HANGERS ON SKEWED GIRDERS:
 - 6.1. HANGER LOADS NOT EXCEEDING 34" O.C. ON A SKEWED GIRDER (RESULTING FROM UNIFORMLY SPACED JOISTS UP TO 24" O.C.) MAY BE CONVERTED TO A UNIFORM LOAD.
 - 6.2. OR GIRDERS WITH HANGER LOAD SPACING IN EXCESS OF 34" O.C. THE LOADS SHALL BE CONSIDERED AS CONCENTRATED LOADS AT THE APPLICABLE LOCATIONS.
7. OTHER CONFIGURATIONS ACCEPTABLE AS LONG AS APPROVED BY TRUSS DESIGN ENGINEER.
8. CONNECTION HAS NO UP-LIFT CAPACITY

TRUSS DEPTH	TOTAL # SCREWS INTO TC (s)	AVAILABLE WEB SCREWS @ 4"OC	# WEB(S)	TOTAL SCREWS	SPF/HF CAPACITY	SP/DFL CAPACITY
1-0-0	3	1	0	3	1,200	1,680
1-0-0	3	1	1	4	1,600	2,240
1-0-0	3	1	2	5	2,000	2,800
1-0-0	3	1	3	6	2,400	3,360
1-0-0	6*	1	0	6*	2,400	3,360
1-2-0	3	1	0	3	1,200	1,680
1-2-0	3	1	1	4	1,600	2,240
1-2-0	3	1	2	5	2,000	2,800
1-2-0	3	1	3	6	2,400	3,360
1-2-0	6*	1	0	6*	2,400	3,360
1-4-0	3	2	0	3	1,200	1,680
1-4-0	3	2	1	5	2,000	2,800
1-4-0	3	2	2	7	2,800	3,920
1-4-0	6*	2	0	6*	2,400	3,360
1-6-0	3	3	0	3	1,200	1,680
1-6-0	3	3	1	6	2,400	3,360
1-6-0	6*	3	0	6*	2,800	3,360
1-8-0	3	3	0	3	1,200	1,680
1-8-0	3	3	1	6	2,400	3,360
1-8-0	6*	3	0	6*	2,400	3,360
1-10-0	3	3	0	3	1,200	1,680
1-10-0	3	3	1	6	2,400	3,360
1-10-0	6*	3	0	6*	2,400	3,360
2-0-0	3	4	0	3	1,200	1,680
2-0-0	3	4	1	7	2,800	3,920
2-0-0	6*	4	0	6*	2,400	3,360

* = DOUBLE TOP CHORD REQUIRED

