

RELEASED FOR
CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
11/07/2025

STAND STRUCTURAL ENGINEERING
8234 Robinson St
Overland Park, KS 66204
(913) 214-2169

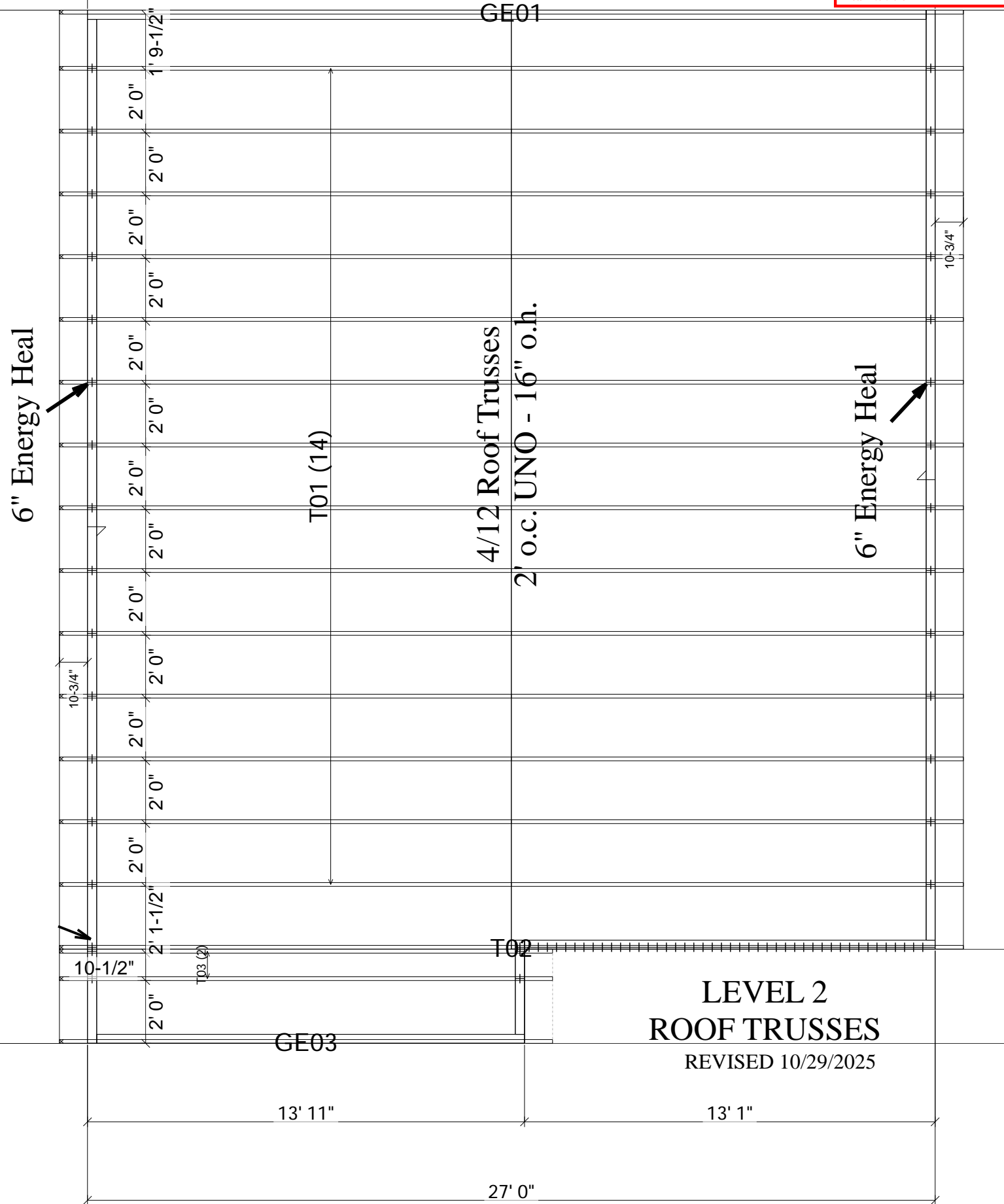
- Reviewed
- Reviewed as Noted
- Not required by the Contract Documents
- For Record Only
- Revise and Resubmit
- Rejected

Review is only for general conformance with the design concept and the intent of the Contract Documents. Contractor is solely responsible for verifying dimensions, for establishing fabrication processes, means, techniques, sequences and procedures of construction and for coordination of work of all trades. Review action taken and noted to information shown does not authorize deviations from the intent of the contract documents, unless so stated in a separate letter or Change Order. The Structural Engineer and/or Architect-of-Record retained by the Contractor or his Supplier, for the Design / Build portion of the project represented by this submittal, is solely responsible for the correctness, appropriateness and adequacy of the Design / Build system.

By: JFunk
Date: 11/07/2025

BUILDING H - LEVEL 2

REFRESHED 10082025 27' 0"



LEVEL 2
ROOF TRUSSES
REVISED 10/29/2025

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: **QU03400_RESERVE_BUILDING H_REFRESH_10082025 - 1250902**
F02, F03, F03-WALL, F04, F05, F06, FL01, G01, G02, G03, GE01, GE02, GE03, T01, T02, T03, T06, T07

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.



STAND STRUCTURAL ENGINEERING 8234 Robinson St Overland Park, KS 66204 (913) 214-2169	
<input checked="" type="checkbox"/> Reviewed	<input type="checkbox"/> Revise and Resubmit
<input type="checkbox"/> Reviewed as Noted	<input type="checkbox"/> Rejected
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<small>Review is only for general conformance with the design concept and the intent of the Contract Documents. Contractor is solely responsible for verifying dimensions, for establishing fabrication processes, means, techniques, sequences and procedures of construction and for coordination of work of all trades. Review action taken and noted to information shown does not authorize deviations from the intent of the contract documents, unless so stated in a separate letter or Change Order. The Structural Engineer, and/or Architect-of-Record retained by the Contractor or his Supplier, for the Design / Build portion of the project represented by this submittal, is solely responsible for the correctness, appropriateness and adequacy of the Design / Build system.</small>	
By: JFunk Date: 11/07/2025	

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.

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 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.
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.

-, /, |, 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

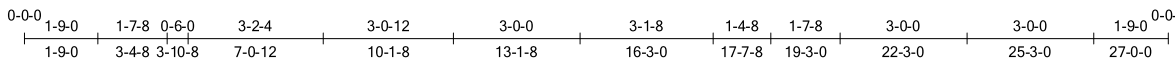
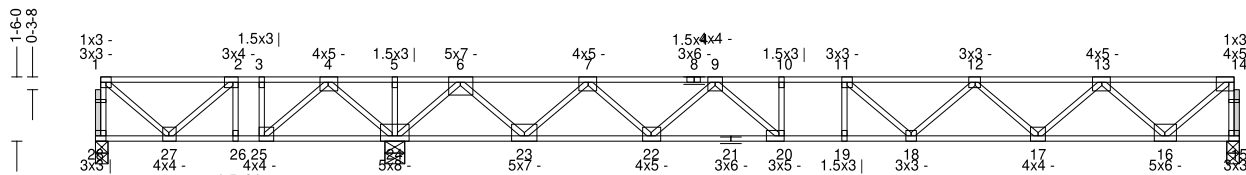
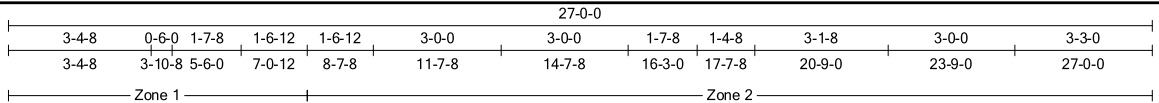
Truss:F02

Job: QU03400_RESERVE_BUILDING_H_R

Date: 10/30/25 08:18:42

Page: 1 of 1

SPAN 27-0-0	PITCH 0/12	QTY 5	OHL 0-0-0	OHR 0-0-0	PLYS 1	SPACING 24 in	WGT/PLY 141 lbs
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All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL : 40 TCDL : 10 BCLL : 0 BCDL : 10	Bldg Code : IBC 2018/ TPI 1-2014 Rep Mbr : Yes Lumber D.O.L. : 100 %	TC : 0.44 (2-3) BC : 0.61 (19-20) Web : 0.30 (6-23)	Vert TL : 0.34 in Vert LL : 0.2 in Horz TL : 0.04 in	L / 677 L / 999	(18-19) (18-19) 15	L / 240 L / 360

10/30/2025

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	5.5 in	1.50 in	2,628 lbs					
28	1	3.5 in	1.50 in	264 lbs	-327 lbs			-327 lbs	
15	1	3.5 in	1.50 in	1,211 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 tension force, (max compression force). Only forces greater than 300lbs are shown in this table.

TC	BC	Web	Member ID	Max CSI	Max Tension Force	Max Compression Force
1-2	16-17	1-27	4-5	0.311	2,747 lbs	(-1,366 lbs)
2-3	17-18	1-27	5-6	0.372	2,747 lbs	(-2,210 lbs)
3-4	18-19	2-27	7-9	0.251	(-2,286 lbs)	(-2,210 lbs)
			19-20	0.614	3,595 lbs	(-1,088 lbs)
			20-22	0.474	3,026 lbs	(-1,722 lbs)
			22-23	0.210	1,452 lbs	(-988 lbs)
			23-24	0.097	(-1,088 lbs)	(-988 lbs)
			24-25	0.262	(-1,722 lbs)	(-988 lbs)
			25-26	0.300	(-988 lbs)	(-988 lbs)
			9-20	0.152	799 lbs	(-1,185 lbs)
			12-18	0.061	319 lbs	(-736 lbs)
			12-17	0.091	(-736 lbs)	(-736 lbs)
			13-17	0.151	911 lbs	(-1,406 lbs)
			13-16	0.171	(-1,406 lbs)	(-1,406 lbs)
			14-16	0.264	1,593 lbs	(-1,185 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 and should properly incorporate this design into the overall building design before use.
- 3) The fabrication tolerance for this floor truss is 10 % (Cq = 0.90).
- 4) A creep factor of 2.00 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.
- 7) Due to negative reactions in gravity load cases, special connections to the bearing surface at joint 28 may need to be considered.



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. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

TrueBuild® Truss Software v5.8.11
Eagle Metal Products

Quality Line Truss Co., LLC

34593 S 4350 RD

Address 2

Adair, OK 74330

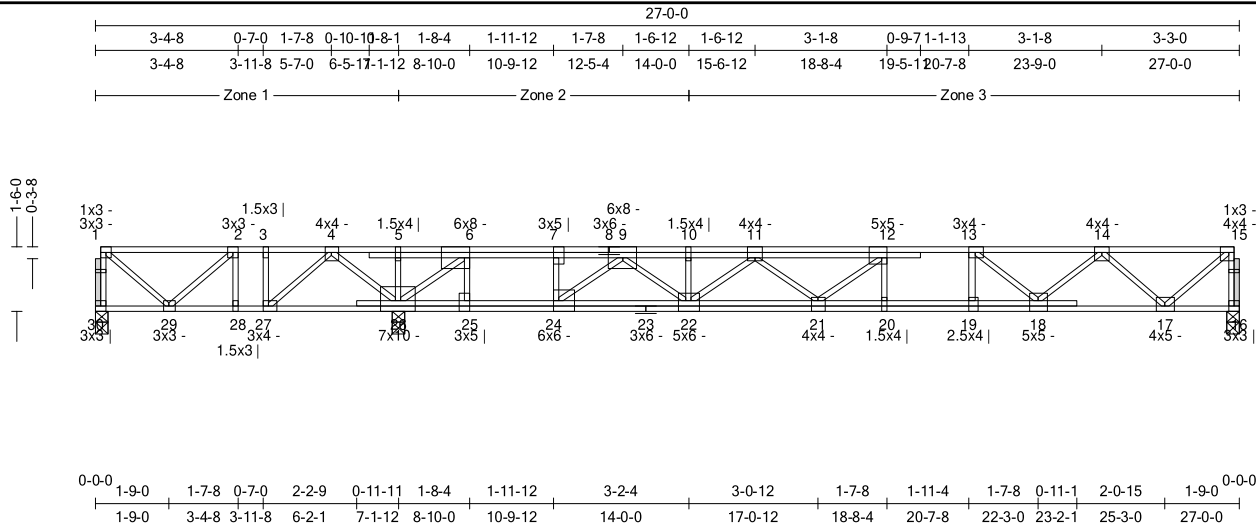
Truss:F03-WALL

Job: QU03400_RESERVE_BUILDING_H_R

Date: 10/30/25 08:18:44

Page: 1 of 2

SPAN 27-0-0	PITCH 0/12	QTY 1	OHL 0-0-0	OHR 0-0-0	PLYS 1	SPACING 19.19in	WGT/PLY 181 lbs
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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 : 0.68 (5-6)	Vert TL: 0.38 in	L / 620	(23-24)	L / 240
TCDL : 10	TPI 1-2014	BC : 0.56 (24-25)	Vert LL: 0.21 in	L / 999	(20-21)	L / 360
BCLL : 0	Rep Mbr : No	Web : 0.35 (6-26)	Horz TL: 0.03 in		16	
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
26	1	3.5 in	1.50 in	1,969 lbs					
30	1	3.5 in	1.50 in	245 lbs	-161 lbs			-161 lbs	
16	1	3.5 in	1.50 in	1,019 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 D1: Std Dead Load

Point Loads

Member	Location	Direction	Load	Trib Width
Top	14-0-0	Down	43 lbs	

Member Forces

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

Member	Member ID	Force	Member ID	Force
TC	2-3	0.312 546 lbs	6-7	0.464 (-559 lbs)
	3-4	0.312 546 lbs	7-9	0.448 (-559 lbs)
	4-5	0.218 1,816 lbs	9-10	0.128 (-2,983 lbs)
	5-6	0.683 1,812 lbs	10-11	0.128 (-2,983 lbs)
BC	17-18	0.238 1,937 lbs	21-22	0.259 3,426 lbs
	18-19	0.423 3,327 lbs	22-24	0.526 2,164 lbs
	19-20	0.467 3,327 lbs	24-25	0.563 559 lbs
	20-21	0.467 3,327 lbs	25-26	0.563 559 lbs
Web	2-29	0.082 429 lbs	9-24	0.242 (-2,074 lbs)
	4-27	0.145 878 lbs	9-22	0.174 1,049 lbs
	4-26	0.134 (-1,126 lbs)	11-22	0.067 (-568 lbs)
	6-26	0.348 (-2,974 lbs)	12-21	0.070 370 lbs
	6-25	0.133 800 lbs	12-20	0.050 (-419 lbs)
	7-24	0.131 791 lbs	13-19	0.086 452 lbs
			13-18	0.116 (-950 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 2.00 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.



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 Eagle Metal Products

Quality Line Truss Co., LLC

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Address 2

Adair, OK 74330

Truss:F03-WALL

Job: QU03400_RESERVE_BUILDING_H_R

Date: 10/30/25 08:18:45

Page: 2 of 2

SPAN
27-0-0

PITCH
0/12

QTY
1

OHL
0-0-0

OHR
0-0-0

PLYS
1

SPACING
19.19 in

WGT/PLY
181 lbs

7) Due to negative reactions in gravity load cases, special connections to the bearing surface at joint 30 may need to be considered.

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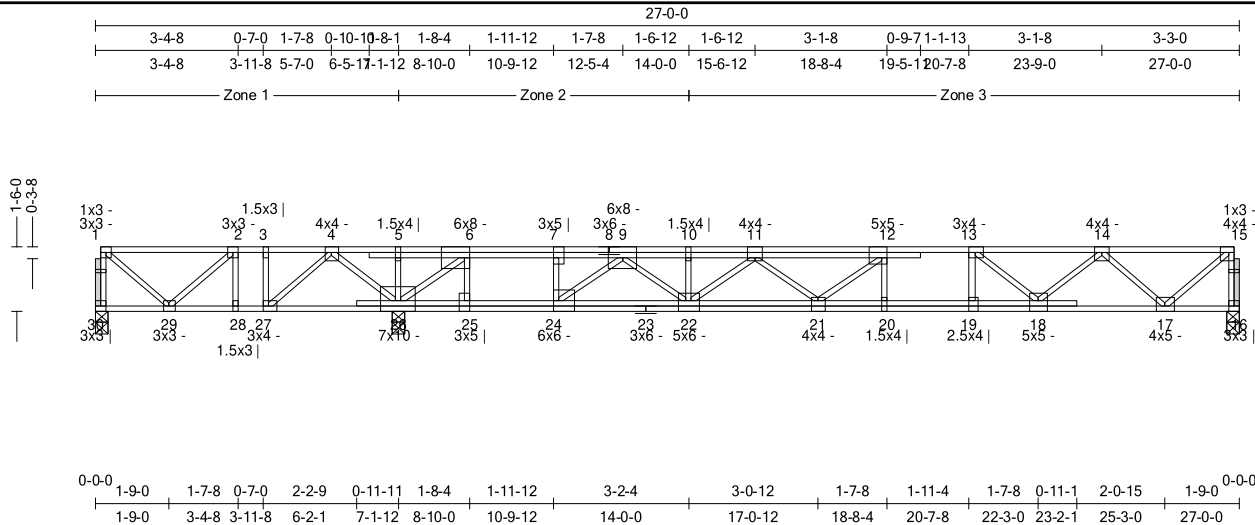
Truss:F03

Job: QU03400_RESERVE_BUILDING_H_R

Date: 10/30/25 08:18:47

Page: 1 of 2

SPAN 27-0-0	PITCH 0/12	QTY 1	OHL 0-0-0	OHR 0-0-0	PLYS 1	SPACING 19.19in	WGT/PLY 181 lbs
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All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL : 40 TCDL : 10 BCLL : 0 BCDL : 10	Bldg Code : IBC 2018/ TPI 1-2014 Rep Mbr : No Lumber D.O.L. : 100 %	TC : 0.68 (5-6) BC : 0.56 (24-25) Web : 0.35 (6-26)	Vert TL : 0.38 in Vert LL : 0.21 in Horz TL : 0.03 in	L / 620 L / 999	(23-24) (20-21) 16	L / 240 L / 360

10/30/2025

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
26	1	3.5 in	1.50 in	1,969 lbs					
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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 D1: Std Dead Load

Point Loads

Member	Location	Direction	Load	Trib Width
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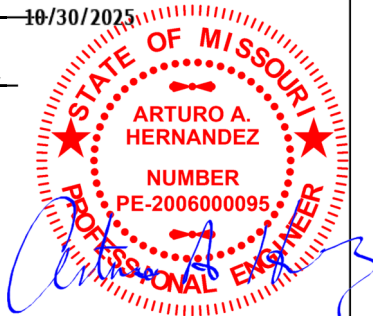
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Notes

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- 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 2.00 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.



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. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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Eagle Metal Products

Quality Line Truss Co., LLC

34593 S 4350 RD

Address 2

Adair, OK 74330

Truss:F03

Job: QU03400_RESERVE_BUILDING_H_R

Date: 10/30/25 08:18:47

Page: 2 of 2

SPAN
27-0-0

PITCH
0/12

QTY
1

OHL
0-0-0

OHR
0-0-0

PLYS
1

SPACING
19.19 in

WGT/PLY
181 lbs

7) Due to negative reactions in gravity load cases, special connections to the bearing surface at joint 30 may need to be considered.

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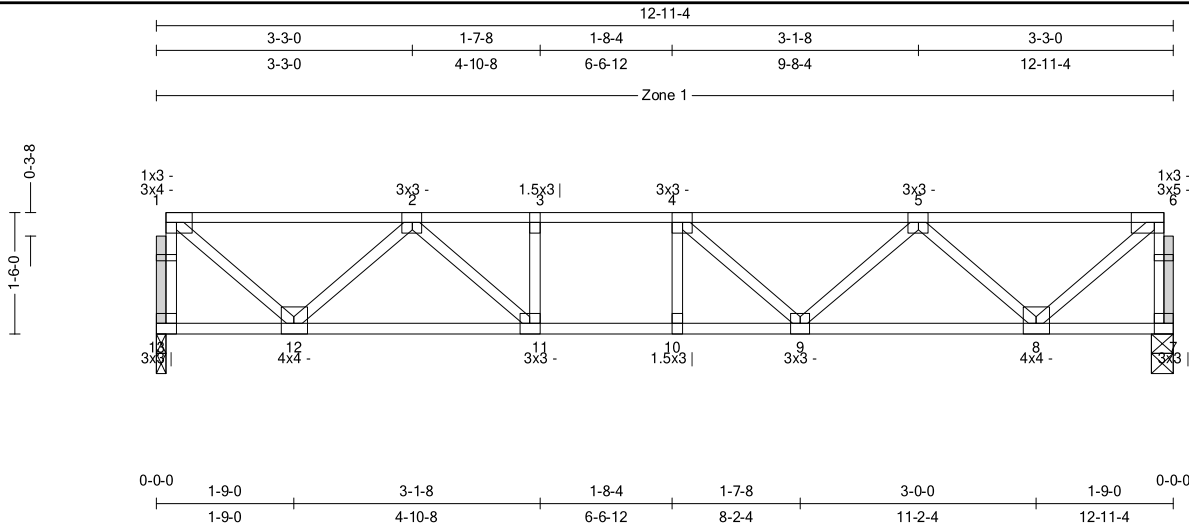
Truss:F04

Job: QU03400_RESERVE_BUILDING_H_R

Date: 10/30/25 08:19:08

Page: 1 of 1

SPAN 12-11-4	PITCH 0/12	QTY 4	OHL 0-0-0	OHR 0-0-0	PLYS 1	SPACING 19.19 in	WGT/PLY 66 lbs
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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 : 0.40 (4-5)	Vert TL : 0.11 in	L / 999	(9-10)	L / 240
TCDL : 10	TPI 1-2014	BC : 0.55 (9-10)	Vert LL : 0.08 in	L / 999	(9-10)	L / 360
BCLL : 0	Rep Mbr : Yes	Web : 0.15 (6-8)	Horz TL : 0.02 in		7	
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
13	1	1.5 in	1.50 in	724 lbs	.	.	.	.	.
7	1	3.5 in	1.50 in	724 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

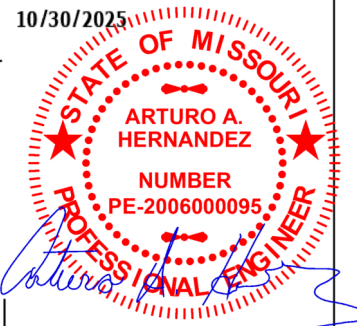
Member Forces

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

TC	1-2	0.359	(-666 lbs)	3-4	0.301	(-1,591 lbs)	5-6	0.373	(-683 lbs)
	2-3	0.314	(-1,591 lbs)	4-5	0.402	(-1,490 lbs)			
BC	8-9	0.297	1,254 lbs	10-11	0.552	1,591 lbs			
	9-10	0.552	1,591 lbs	11-12	0.445	1,239 lbs			
Web	1-13	0.074	(-696 lbs)	2-11	0.094	494 lbs	6-8	0.151	910 lbs
	1-12	0.147	887 lbs	5-9	0.054	320 lbs	6-7	0.075	(-702 lbs)
	2-12	0.095	(-778 lbs)	5-8	0.094	(-774 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 2.00 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.



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. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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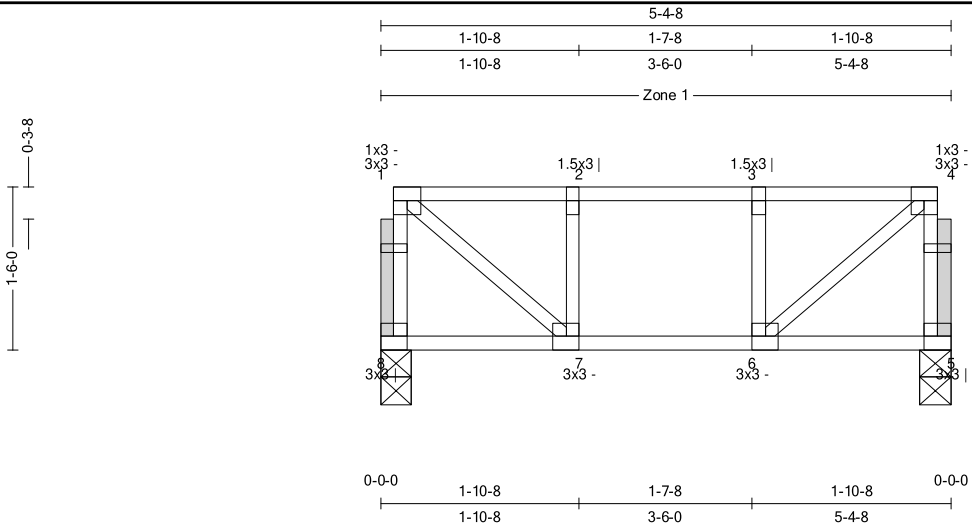
Truss:F05

Job: QU03400_RESERVE_BUILDING_H_R

Date: 10/30/25 08:18:48

Page: 1 of 1

SPAN 5-4-8	PITCH 0/12	QTY 4	OHL 0-0-0	OHR 0-0-0	PLYS 1	SPACING 19.19 in	WGT/PLY 31 lbs
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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 : 0.09 (1-2)	Vert TL: 0.01 in	L/999	(5-6)	L/240
TCDL : 10	TPI 1-2014	BC : 0.10 (6-7)	Vert LL: 0.01 in	L/999	(5-6)	L/360
BCLL : 0	Rep Mbr : Yes	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	301 lbs	.	.	.	.	.
5	1	3.5 in	1.50 in	301 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 tension force, (max compression force). Only forces greater than 300lbs are shown in this table.

TC	BC	Web
1-7	0.055	330 lbs
4-6	0.055	330 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 2.00 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.



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. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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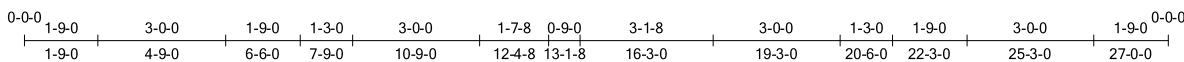
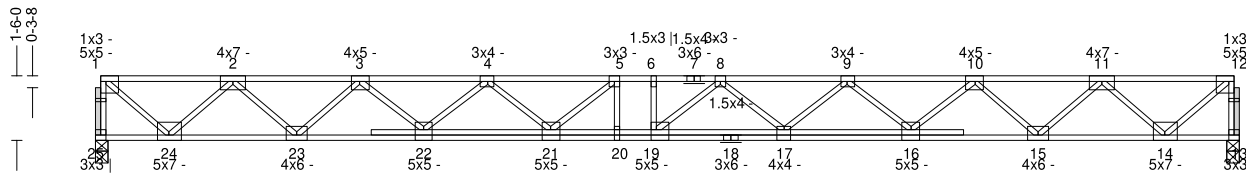
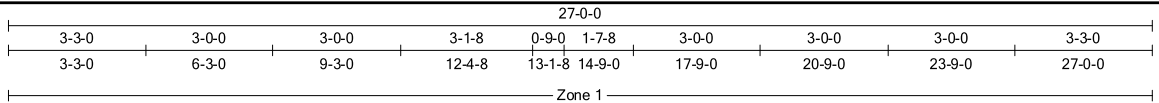
Truss:F06

Job: QU03400_RESERVE_BUILDING_H_R

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Page: 1 of 1

SPAN 27-0-0	PITCH 0/12	QTY 8	OHL 0-0-0	OHR 0-0-0	PLYS 1	SPACING 19.19 in	WGT/PLY 158 lbs
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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 : 0.65 (4-5)	Vert TL : 0.91 in	L / 347	(18-19)	L / 240
TCDL : 10	TPI 1-2014	BC : 0.48 (15-16)	Vert LL : 0.52 in	L / 609	19	L / 360
BCLL : 0	Rep Mbr : Yes	Web : 0.35 (1-24)	Horz TL : 0.12 in		13	
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
25	1	3.5 in	1.50 in	1,511 lbs					
13	1	3.5 in	1.50 in	1,511 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 tension force, (max compression force). Only forces greater than 300lbs are shown in this table.

TC	1-2 0.224 (-1,572 lbs)	4-5 0.645 (-7,204 lbs)	8-9 0.641 (-7,223 lbs)	11-12 0.224 (-1,577 lbs)
	2-3 0.365 (-4,114 lbs)	5-6 0.581 (-7,553 lbs)	9-10 0.547 (-6,158 lbs)	
	3-4 0.547 (-6,160 lbs)	6-8 0.594 (-7,553 lbs)	10-11 0.365 (-4,114 lbs)	
BC	14-15 0.286 2,994 lbs	17-19 0.365 7,511 lbs	21-22 0.330 6,827 lbs	
	15-16 0.475 5,242 lbs	19-20 0.336 7,553 lbs	22-23 0.473 5,242 lbs	
	16-17 0.317 6,834 lbs	20-21 0.349 7,553 lbs	23-24 0.287 2,994 lbs	
Web	1-25 0.159 (-1,488 lbs)	4-22 0.106 (-887 lbs)	9-16 0.107 (-898 lbs)	12-13 0.159 (-1,488 lbs)
	1-24 0.347 2,093 lbs	4-21 0.103 541 lbs	10-16 0.202 1,220 lbs	
	2-24 0.234 (-1,930 lbs)	5-21 0.085 (-638 lbs)	10-15 0.185 (-1,527 lbs)	
	2-23 0.251 1,518 lbs	8-19 0.077 404 lbs	11-15 0.252 1,519 lbs	
	3-23 0.185 (-1,528 lbs)	8-17 0.059 (-441 lbs)	11-14 0.234 (-1,931 lbs)	
	3-22 0.202 1,222 lbs	9-17 0.088 517 lbs	12-14 0.347 2,093 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 2.00 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.



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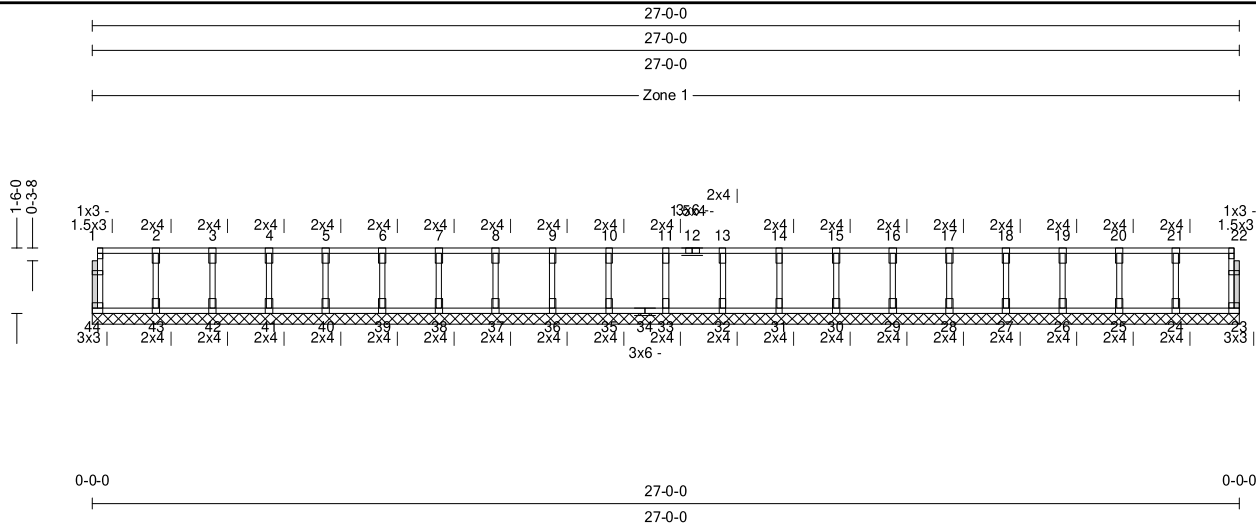
Truss:FL01

Job: QU03400_RESERVE_BUILDING_H_R

Date: 10/30/25 08:18:54

Page: 1 of 1

SPAN 27-0-0	PITCH 0/12	QTY 1	OHL 0-0-0	OHR 0-0-0	PLYS 1	SPACING 19.19 in	WGT/PLY 121 lbs
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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 : 0.06 (21-22)	Vert TL: 0 in UP	L / 999	23	L / 240
TCDL : 10	TPI 1-2014	BC : 0.02 (23-24)	Vert LL: 0 in	L / 999	23	L / 360
BCLL : 0	Rep Mbr : No	Web : 0.03 (1-44)	Horz TL: 0 in			
BCDL : 10	Lumber D.O.L. : 100 %					

Reaction

Brg Combo	Brg Width	Max React	Ave React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
1		148 lbs	101 plf					-4 lbs

Material

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

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) Unless otherwise specified by the Building Designer, one strongback every 10'-0".
- 3) Gable requires continuous bottom chord bearing.
- 4) Continuous bearing knee-wall/ladder floor trusses are not designed for any loads from levels above. Additional blocking, by others, may be required in order to transfer loads.
- 5) Gable webs placed at 16" OC, U.N.O.
- 6) Attach gable webs with 2x4 20ga plates, U.N.O.
- 7) Bracing shown is for in-plane requirements. For out-of-plane requirements, refer to BCSI-B3 published by the SBCA.
- 8) The fabrication tolerance for this floor truss is 10% (Cq = 0.90).
- 9) A creep factor of 2.00 has been applied for this truss analysis.
- 10) The "SYP" label shown in the "Material Summary" above indicates the new SPIB design values effective June 1, 2013 were used.
- 11) Indicates non-structural members.



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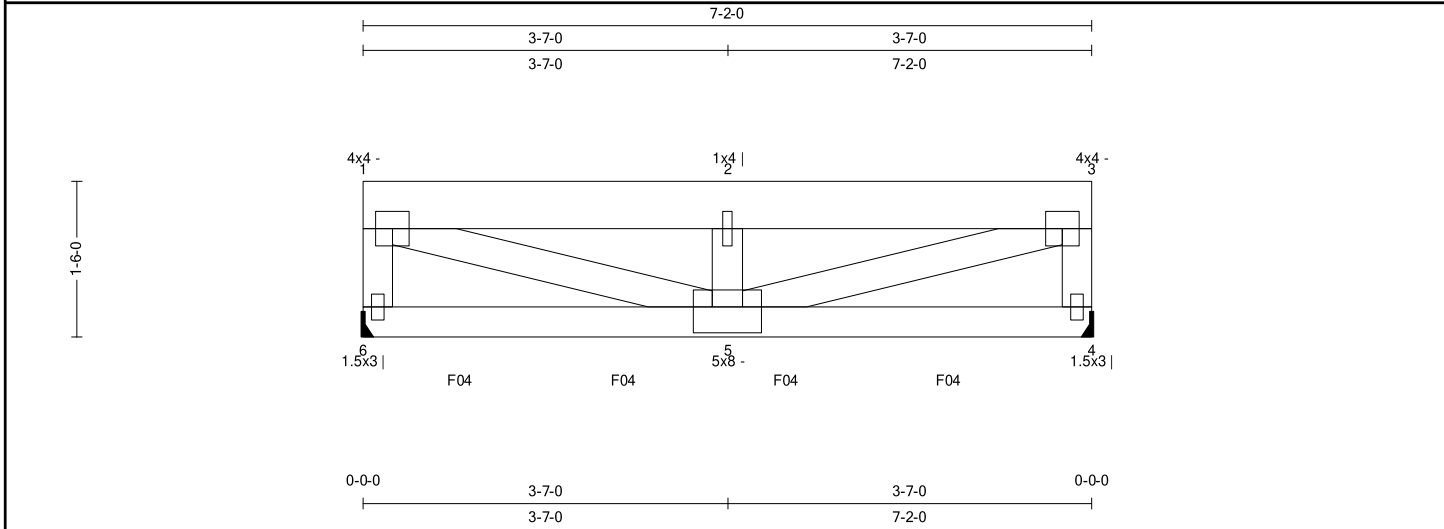
Truss:G01

Job: QU03400_RESERVE_BUILDING_H_R

Date: 10/30/25 08:19:09

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SPAN 7-2-0	PITCH 0/12	QTY 1	OHL 0-0-0	OHR 0-0-0	CANT L 0-0-0	CANT R 0-0-0	PLYS 2	SPACING 1.5 in	WGT/PLY 39 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: 0.08 (2-3)	Vert TL: 0.05 in	L / 999	(5-6)	L / 240
TCLL: 40	TPI 1-2014	BC: 0.42 (5-6)	Vert LL: 0.04 in	L / 999	(5-6)	L / 360
TCDL: 10	Rep Mbr: No	Web: 0.23 (1-5)	Horz TL: 0 in		4	
BCLL: 0	Lumber D.O.L.: 100 %					
BCDL: 10						

10/30/2025

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
6	1	1.5 in	--	1,351 lbs					
4	1	1.5 in	--	1,185 lbs					

Material

TC: SYP2400/1.7 2 x 6
BC: SYP2400/1.8 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.
- Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Load Case Lr1: Std Live Load

Distributed Loads

Member	Location 1	Location 2	Direction	Spread	Start Load	End Load	Trib Width
Top	0-0-0	7-2-0	Down	Proj	5 plf	5 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	7-2-0	Down	Proj	1.25 plf	1.25 plf	
Bot	0-0-0	7-2-0	Down	Proj	1.25 plf	1.25 plf	

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	1-2	0.079	(-1,136 lbs)	2-3	0.079	(-1,136 lbs)
BC						
Web	1-6	0.049	(-419 lbs)	3-5	0.228	1,196 lbs
	1-5	0.228	1,196 lbs	3-4	0.049	(-419 lbs)

Truss to Truss Connection Summary

Carried Truss	Carrying Chord	Carrying Offset
F04	BC	0-11-7
F04	BC	2-6-10
F04	BC	4-1-13
F04	BC	5-9-0

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. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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Truss:G01

Job: QU03400_RESERVE_BUILDING_H_R

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SPAN	PITCH	QTY	OHL	OHR	CANT L	CANT R	PLYS	SPACING	WGT/PLY
7-2-0	0/12	1	0-0-0	0-0-0	0-0-0	0-0-0	2	1.5 in	39 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 % ($C_q = 0.80$).
- 3) Hangers are for graphical interpretation only. Install hangers per manufacturer's recommendations.
- 4) Provide adequate drainage to prevent ponding.
- 5) Brace bottom chord with approved sheathing or purlins per Bracing Summary.
- 6) A creep factor of 2.00 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) 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, per ply: 10d Nails or Gun Nails [min 0.120"x2.875"] TC - 2 staggered rows @ 1-0-0 oc, BC - 1 row @ 1-0-0 oc, Webs - 1 row @ 1-0-0 oc.

Provided the hanger connections do not adequately transfer the applied load to all plies: in addition to connectors shown above, attach each pair of girder plies with supplemental 10d Nails or Gun Nails [min 0.120"x2.875"] as follows within 24" of the location shown:

- BC: 0-11-7,(5)Connectors
- BC: 2-6-10,(5)Connectors
- BC: 4-1-13,(5)Connectors
- BC: 5-9-0,(5)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) When applied loads are on one side of girder, do not flip girder during girder connector installation, install connectors on the girder side where supported loads are applied. When applied loads are on both sides of girder, double the spacing and install half of the connectors on one side of girder and then flip the girder to install the other half of the connectors on the opposite side (at double the connector spacing). Connectors on opposite sides of the girder shall be offset.
- 10) Lateral bracing shall be attached to each ply.
- 11) All fasteners minimum 2-1/2" long, unless otherwise noted.
- 12) Nails in 1st and 2nd ply shall be offset from successive plies by 1/2 the nail spacing.

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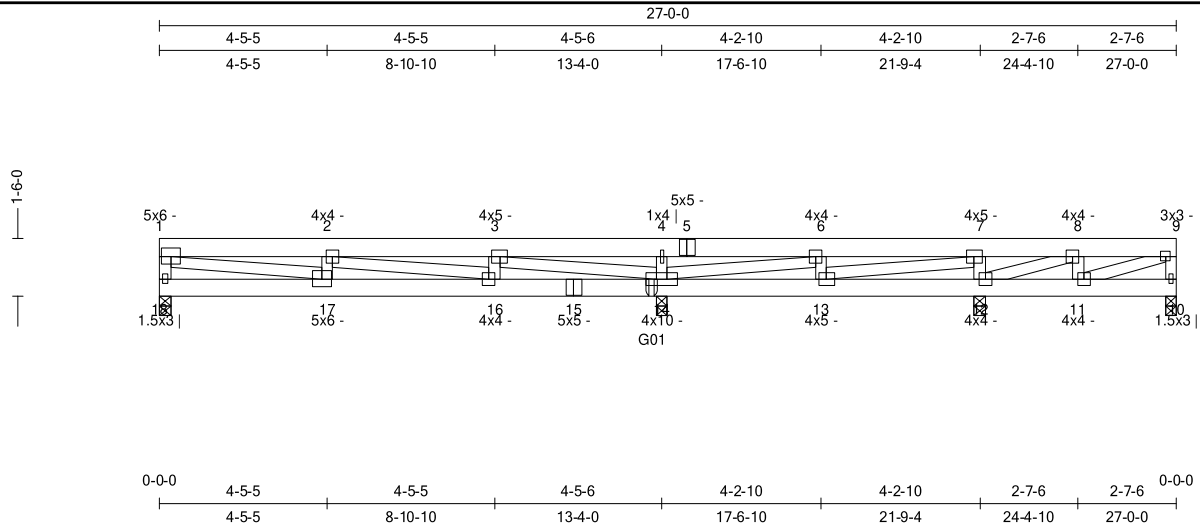
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Truss:G02
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Page: 1 of 2

SPAN 27-0-0	PITCH 0/12	QTY 1	OHL 0-0-0	OHR 0-0-0	CANT L 0-0-0	CANT R 0-0-0	PLYS 2	SPACING 96.38 in	WGT/PLY 164 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) TCLL: 40 TCDL: 10 BCLL: 0 BCDL: 10	Bldg Code: IBC 2018/ TPI 1-2014 Rep Mbr: No Lumber D.O.L.: 100 %	TC: 0.45 (3-4) BC: 0.39 (14-16) Web: 0.43 (1-17)	Vert TL: 0.17 in Vert LL: 0.11 in Horz TL: 0.02 in	L/911 L/999	(16-17) (16-17) 10	L/240 L/360

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
18	1	3.5 in	1.50 in	2,026 lbs	.	.	.	.	.
14	1	3.5 in	3.46 in	5,870 lbs	.	.	.	.	.
12	1	3.5 in	2.36 in	4,006 lbs	.	.	.	.	.
10	1	3.5 in	1.50 in	1,099 lbs	.	.	.	.	.

Material

TC: SYP2400/1.7 2 x 6
BC: SYP2400/1.7 2 x 6
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.
- Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Load Case Lr1: Std Live Load

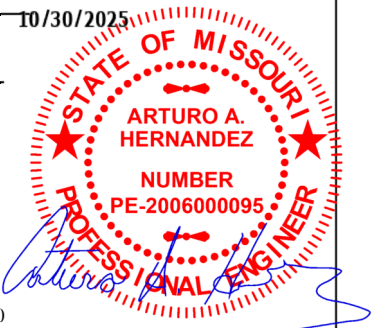
Distributed Loads

Member	Location 1	Location 2	Direction	Spread	Start Load	End Load	Trib Width
Top	0-0-0	13-0-12	Down	Proj	30.78 plf	30.78 plf	
Top	13-0-12	27-0-0	Down	Proj	148.33 plf	148.33 plf	
Top	0-0-0	16-10-8	Down	Proj	172.92 plf	172.92 plf	
Top	16-10-8	27-0-0	Down	Proj	172.92 plf	172.92 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	13-0-12	Down	Proj	7.7 plf	7.7 plf	
Top	13-0-12	27-0-0	Down	Proj	37.08 plf	37.08 plf	
Top	0-0-0	16-10-8	Down	Proj	43.23 plf	43.23 plf	
Top	16-10-8	27-0-0	Down	Proj	43.23 plf	43.23 plf	
Bot	0-0-0	13-0-12	Down	Proj	7.7 plf	7.7 plf	
Bot	13-0-12	27-0-0	Down	Proj	37.08 plf	37.08 plf	
Bot	0-0-0	16-10-8	Down	Proj	43.23 plf	43.23 plf	
Bot	16-10-8	27-0-0	Down	Proj	43.23 plf	43.23 plf	



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Truss:G02

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SPAN 27-0-0	PITCH 0/12	QTY 1	OHL 0-0-0	OHR 0-0-0	CANT L 0-0-0	CANT R 0-0-0	PLYS 2	SPACING 96.38 in	WGT/PLY 164 lbs
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Member Forces

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

TC	1-2	0.175	(2,415 lbs)	3-4	0.455	1,347 lbs	6-7	0.206	422 lbs	(-946 lbs)	8-9	0.073	(-483 lbs)
	2-3	0.169	(-1,666 lbs)	4-6	0.455	1,347 lbs	7-8	0.293	560 lbs				
BC	11-12	0.180	483 lbs	13-14	0.324	946 lbs	(-422 lbs)	16-17	0.274	2,415 lbs			
	12-13	0.130	(-560 lbs)	14-16	0.390	1,666 lbs							
Web	1-18	0.094	(-869 lbs)	3-14	0.382	(-3,033 lbs)	7-13	0.263	1,380 lbs	9-10	0.054	(-465 lbs)	
	1-17	0.431	2,485 lbs	4-14	0.112	(-1,007 lbs)	7-12	0.142	(-1,224 lbs)				
	2-17	0.052	(-451 lbs)	6-14	0.228	(-1,870 lbs)	8-12	0.095	(-855 lbs)				
	2-16	0.105	(-832 lbs)	6-13	0.042	(-367 lbs)	9-11	0.100	524 lbs				

Truss to Truss Connection Summary

Carried Truss	Carrying Chord	Carrying Offset
G01	BC	13-0-12

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) Provide adequate drainage to prevent ponding.
- 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) 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, per ply: 10d Nails or Gun Nails [min 0.120"x2.875"] TC - 2 staggered rows @ 0-8-4 oc, BC - 2 staggered rows @ 1-0-0 oc, Webs - 1 row @ 1-0-0 oc.

Provided the hanger connections do not adequately transfer the applied load to all plies: in addition to connectors shown above, attach each pair of girder plies with supplemental 10d Nails or Gun Nails [min 0.120"x2.875"] as follows within 24" of the location shown:

BC: 13-0-12,(9)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.

- 8) When applied loads are on one side of girder, do not flip girder during girder connector installation, install connectors on the girder side where supported loads are applied. When applied loads are on both sides of girder, double the spacing and install half of the connectors on one side of girder and then flip the girder to install the other half of the connectors on the opposite side (at double the connector spacing). Connectors on opposite sides of the girder shall be offset.
- 9) Lateral bracing shall be attached to each ply.
- 10) All fasteners minimum 2-1/2" long, unless otherwise noted.
- 11) Nails in 1st and 2nd ply shall be offset from successive plies by 1/2 the nail spacing.

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. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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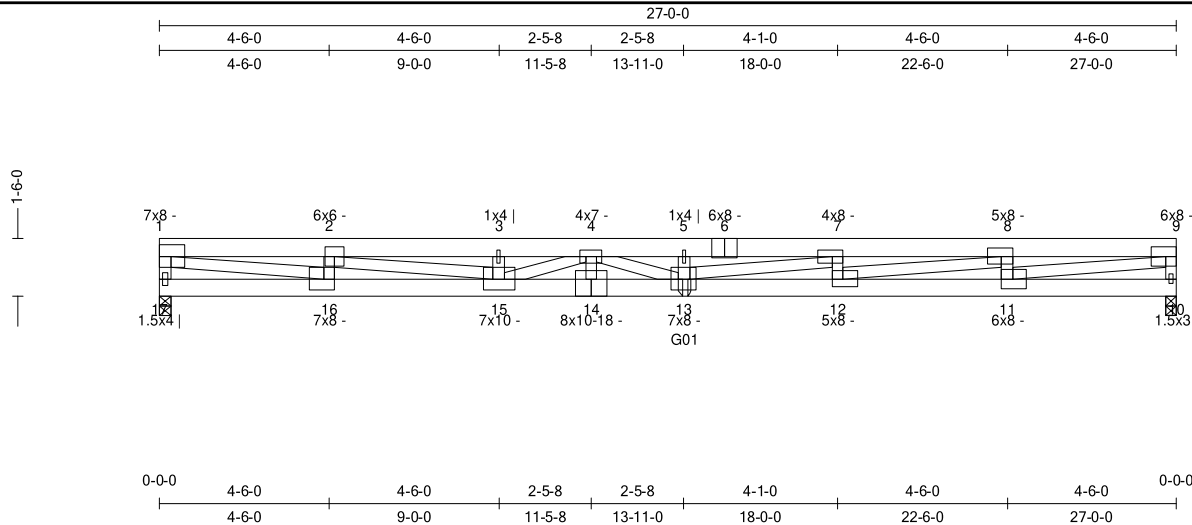
Truss:G03

Job: QU03400_RESERVE_BUILDING_H_R

Date: 10/30/25 08:19:14

Page: 1 of 2

SPAN 27-0-0	PITCH 0/12	QTY 1	OHL 0-0-0	OHR 0-0-0	CANT L 0-0-0	CANT R 0-0-0	PLYS 2	SPACING 48 in	WGT/PLY 172 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) TCLL: 40 TCDL: 10 BCLL: 0 BCDL: 10	Bldg Code: IBC 2018/ TPI 1-2014 Rep Mbr: No Lumber D.O.L.: 100 %	TC: 0.55 (5-7) BC: 0.83 (13-14) Web: 0.94 (1-16)	Vert TL: 1.27 in Vert LL: 0.6 in Horz TL: 0.09 in	L/249 L/527	(13-14) (13-14) 10	L/240 L/360

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
17	1	3.5 in	1.70 in	2,873 lbs					
10	1	3.5 in	1.50 in	1,767 lbs					

Material

TC: SYP2400/1.7 2 x 6
BC: SYP2400/1.7 2 x 6
Web: SYP#1 2 x 4

Bracing

TC: Sheathed or Purlins at 5-1-0, 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.
- Concurrent minimum storage attic loading has been applied in accordance with IBC 1607.1

Load Case Lr1: Std Live Load

Distributed Loads

Member	Location 1	Location 2	Direction	Spread	Start Load	End Load	Trib Width
Top	13-11-4	27-0-0	Down	Proj	11.67 plf	11.67 plf	
Top	0-0-0	27-0-0	Down	Proj	11.67 plf	11.67 plf	
Top	0-0-0	13-11-4	Down	Proj	148.33 plf	148.33 plf	

Load Case D1: Std Dead Load

Distributed Loads

Member	Location 1	Location 2	Direction	Spread	Start Load	End Load	Trib Width
Top	13-11-4	27-0-0	Down	Proj	2.92 plf	2.92 plf	
Top	0-0-0	27-0-0	Down	Proj	2.92 plf	2.92 plf	
Bot	0-0-0	1-4-0	Down	Proj	2.92 plf	2.92 plf	
Bot	13-11-4	27-0-0	Down	Proj	2.92 plf	2.92 plf	
Bot	0-0-0	27-0-0	Down	Proj	2.92 plf	2.92 plf	
Top	0-0-0	13-11-4	Down	Proj	37.08 plf	37.08 plf	

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	1-2	0.301	(4,780 lbs)	3-4	0.470	(-7,628 lbs)	5-7	0.555	(-8,730 lbs)	8-9	0.210	(-3,333 lbs)
	2-3	0.504	(-7,628 lbs)	4-5	0.551	(-8,730 lbs)	7-8	0.400	(-6,401 lbs)			
BC	11-12	0.362	3,333 lbs	13-14	0.833	8,659 lbs	15-16	0.553	4,780 lbs			
	12-13	0.691	6,401 lbs	14-15	0.797	8,659 lbs						



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Truss:G03

Job: QU03400_RESERVE_BUILDING_H_R

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SPAN	PITCH	QTY	OHL	OHR	CANT L	CANT R	PLYS	SPACING	WGT/PLY
27-0-0	0/12	1	0-0-0	0-0-0	0-0-0	0-0-0	2	48 in	172 lbs
Web	1-17 0.160 1-16 0.936 2-16 0.133 2-15 0.557	4,915 lbs (-1,380 lbs) (-1,153 lbs) 2,923 lbs	3-15 0.036 4-15 0.135 4-13 0.094 7-13 0.458	(-314 lbs) (-1,119 lbs) 506 lbs 2,404 lbs	7-12 0.078 8-12 0.600 8-11 0.091 9-11 0.653	3,148 lbs (-784 lbs) 3,428 lbs	9-10 0.099 (-851 lbs)		

Truss to Truss Connection Summary

Carried Truss	Carrying Chord	Carrying Offset
G01	BC	13-11-4

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) Provide adequate drainage to prevent ponding.
- 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) 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, per ply: 10d Nails or Gun Nails [min 0.120"x2.875"] TC - 2 staggered rows @ 1-0-0 oc, BC - 2 staggered rows @ 1-0-0 oc, Webs - 1 row @ 1-0-0 oc.

Provided the hanger connections do not adequately transfer the applied load to all plies; in addition to connectors shown above, attach each pair of girder plies with supplemental 10d Nails or Gun Nails [min 0.120"x2.875"] as follows within 24" of the location shown:

BC: 13-11-4,(10)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.

- 8) When applied loads are on one side of girder, do not flip girder during girder connector installation, install connectors on the girder side where supported loads are applied. When applied loads are on both sides of girder, double the spacing and install half of the connectors on one side of girder and then flip the girder to install the other half of the connectors on the opposite side (at double the connector spacing). Connectors on opposite sides of the girder shall be offset.
- 9) Lateral bracing shall be attached to each ply.
- 10) All fasteners minimum 2-1/2" long, unless otherwise noted.
- 11) Nails in 1st and 2nd ply shall be offset from successive plies by 1/2 the nail spacing.

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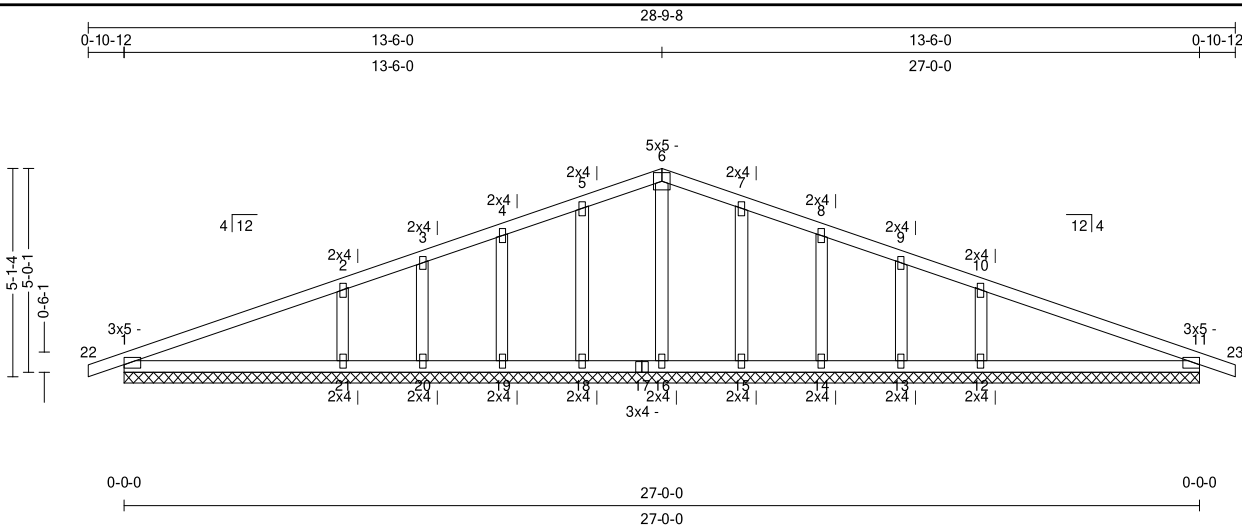
Truss:GE01

Job: QU03400_RESERVE_BUILDING_H_R

Date: 10/30/25 08:18:56

Page: 1 of 1

SPAN 27-0-0	PITCH 4/12	QTY 1	OHL 0-10-12	OHR 0-10-12	CANT L 0-0-0	CANT R 0-0-0	PLYS 1	SPACING 24 in	WGT/PLY 119 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 : 0.29 (10-11)	Vert TL: 0.01 in	L/999	(11-12)	L/240
TCDL : 10	TPI 1-2014	BC : 0.11 (11-12)	Vert LL: 0 in	L/999	11	L/360
BCLL : 0	Rep Mbr : No	Web : 0.04 (5-18)	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		1,009 lbs	155 plf	-706 lbs	-161 lbs	-318 lbs	-706 lbs	-537 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 tension force, (max compression force). Only forces greater than 300lbs are shown in this table.

Member	Force
TC 1-2	0.287 835 lbs
TC 10-11	0.287 835 lbs
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) Due to negative reactions in gravity load cases, special connections to the bearing surface at joints 11, 1 may need to be considered.
- 10) Listed wind uplift reactions based on MWFRS & C&C loading.

10/30/2025



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. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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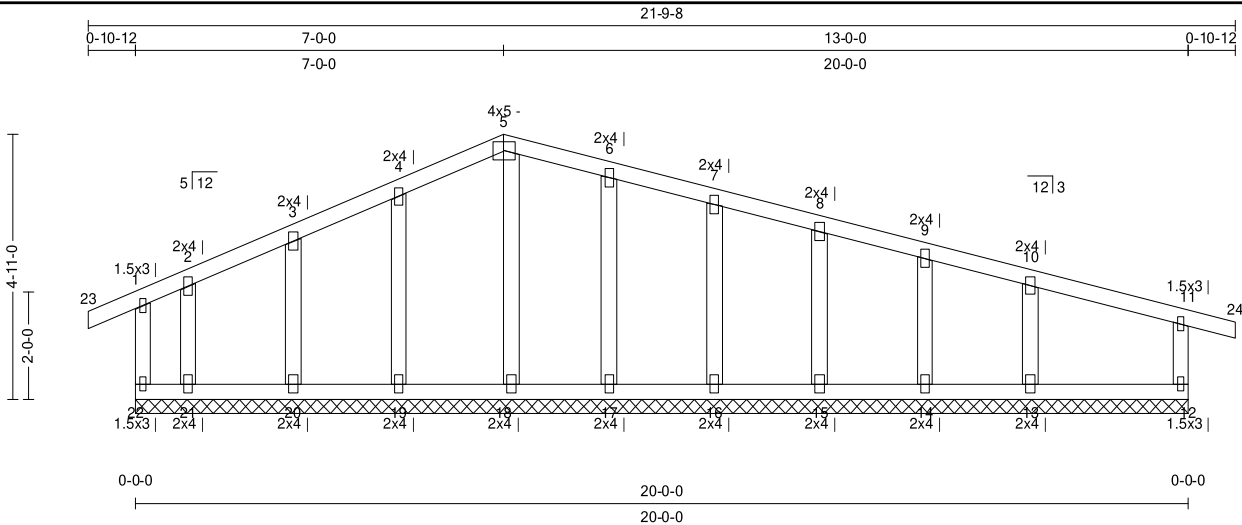
Truss:GE02

Job: QU03400_RESERVE_BUILDING_H_R

Date: 10/30/25 08:18:58

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SPAN 20-0-0	PITCH 5/12	QTY 1	OHL 0-10-12	OHR 0-10-12	CANT L 0-0-0	CANT R 0-0-0	PLYS 1	SPACING 24 in	WGT/PLY 103 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 : 0.10 (23-1)	Vert TL: 0 in UP	L / 999	12	L / 240
TCDL : 10	TPI 1-2014	BC : 0.04 (12-13)	Vert LL: 0 in	L / 999	12	L / 360
BCLL : 0	Rep Mbr : No	Web : 0.07 (1-22)	Horz TL: 0 in			
BCDL : 10	Lumber D.O.L. : 115 %					

10/30/2025

Reaction

Brg Combo	Brg Width	Max React	Ave React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
1		215 lbs	91 plf		-64 lbs	-130 lbs	-130 lbs	42 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 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. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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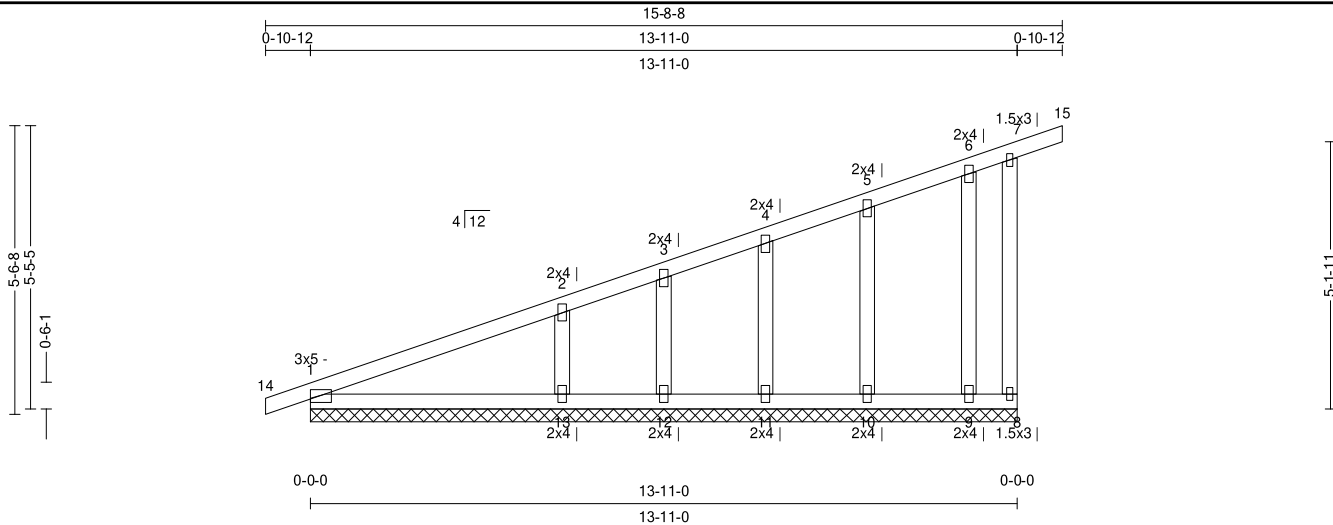
Truss:GE03

Job: QU03400_RESERVE_BUILDING_H_R

Date: 10/30/25 08:19:00

Page: 1 of 1

SPAN 13-11-0	PITCH 4/12	QTY 1	OHL 0-10-12	OHR 0-10-12	CANT L 0-0-0	CANT R 0-0-0	PLYS 1	SPACING 24 in	WGT/PLY 70 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 : 0.25 (1-2)	Vert TL: 0.01 in	L / 999	(13-1)	L / 240
TCDL : 10	TPI 1-2014	BC : 0.09 (13-1)	Vert LL: 0 in	L / 999	8	L / 360
BCLL : 0	Rep Mbr : No	Web : 0.22 (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 Uplift	Max C&C Uplift	Max Uplift	Max Horiz
1		917 lbs	170 plf	-656 lbs	-207 lbs	-570 lbs	-656 lbs	-461 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

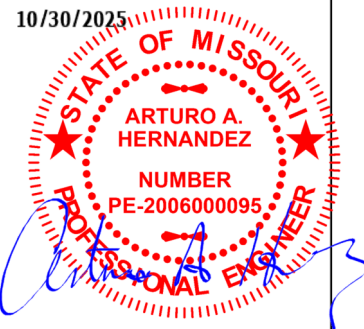
Member Forces

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

TC	1-2	0.253	764 lbs	(-567 lbs)
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) 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.



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. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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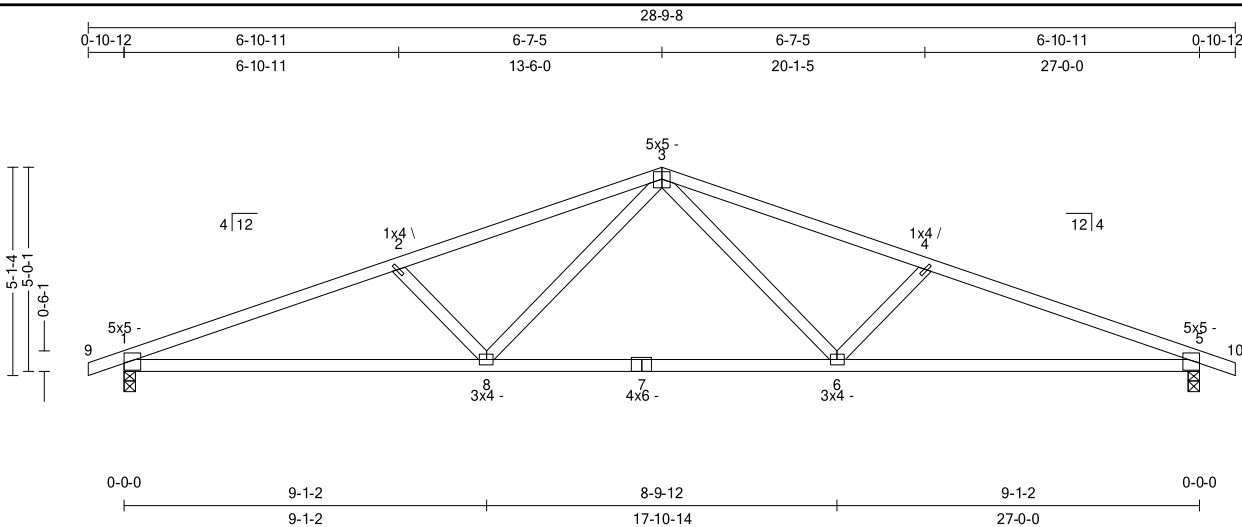
Truss:T01

Job: QU03400_RESERVE_BUILDING_H_R

Date: 10/30/25 08:19:01

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SPAN 27-0-0	PITCH 4/12	QTY 14	OHL 0-10-12	OHR 0-10-12	CANT L 0-0-0	CANT R 0-0-0	PLYS 1	SPACING 24 in	WGT/PLY 107 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 : 0.52 (2-3)	Vert TL : 0.48 in	L / 663	(6-7)	L / 240
TCDL : 10	TPI 1-2014	BC : 0.89 (8-1)	Vert LL : 0.16 in	L / 999	(6-7)	L / 360
BCLL : 0	Rep Mbr : Yes	Web : 0.14 (3-8)	Horz TL : 0.1 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	1.66 in	1,404 lbs	.	-104 lbs	-315 lbs	-315 lbs	-3 lbs
5	1	3.5 in	1.66 in	1,404 lbs	.	-104 lbs	-315 lbs	-315 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 9-5-0, 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 tension force, (max compression force). Only forces greater than 300lbs are shown in this table.

TC	1-2	0.463	590 lbs	(-3,035 lbs)	3-4	0.522	537 lbs	(-2,746 lbs)	
	2-3	0.522	537 lbs	(-2,746 lbs)	4-5	0.463	590 lbs	(-3,035 lbs)	
BC	5-6	0.892	2,817 lbs	(-457 lbs)	6-8	0.762	1,952 lbs	(-304 lbs)	
Web	2-8	0.081	(-422 lbs)	3-8	0.144	872 lbs	3-6	0.144	872 lbs
							4-6	0.081	(-422 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 2.00 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.



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. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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Address 2
Adair, OK 74330

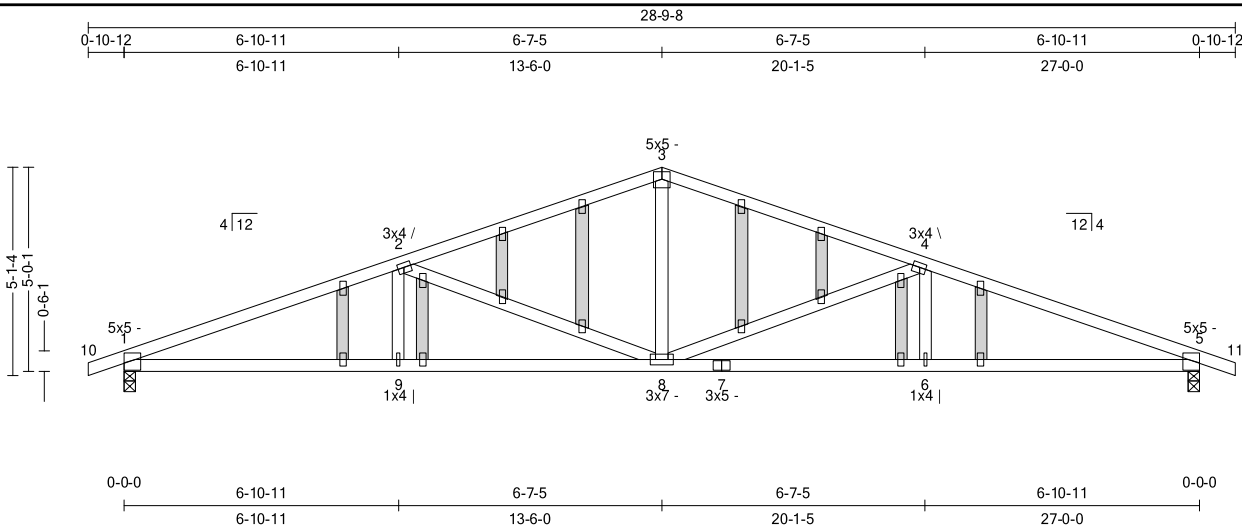
Truss:T02

Job: QU03400_RESERVE_BUILDING_H_R

Date: 10/30/25 08:19:03

Page: 1 of 1

SPAN 27-0-0	PITCH 4/12	QTY 1	OHL 0-10-12	OHR 0-10-12	CANT L 0-0-0	CANT R 0-0-0	PLYS 1	SPACING 24 in	WGT/PLY 138 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 : 0.65 (4-5)	Vert TL : 0.37 in	L / 845	(6-7)	L / 240
TCDL : 10	TPI 1-2014	BC : 0.87 (5-6)	Vert LL : 0.13 in	L / 999	(8-9)	L / 360
BCLL : 0	Rep Mbr : No	Web : 0.67 (2-8)	Horz TL : 0.11 in		5	
BCDL : 10	Lumber D.O.L. : 115 %					

10/30/2025

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	1.66 in	1,404 lbs	.	-104 lbs	-315 lbs	-315 lbs	-3 lbs
5	1	3.5 in	1.66 in	1,404 lbs	.	-104 lbs	-315 lbs	-315 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 3-1-0, Purlin design by Others.
BC: Sheathed or Purlins at 9-4-0, 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 tension force, (max compression force). Only forces greater than 300lbs are shown in this table.

TC	1-2	0.654	562 lbs	(-3,076 lbs)	3-4	0.518	495 lbs	(-2,189 lbs)
	2-3	0.518	495 lbs	(-2,189 lbs)	4-5	0.654	562 lbs	(-3,076 lbs)
BC	5-6	0.870	2,851 lbs	(-432 lbs)	6-8	0.865	2,851 lbs	(-432 lbs)
	8-9	0.865	2,851 lbs	(-432 lbs)	9-1	0.870	2,851 lbs	(-432 lbs)
Web	2-8	0.668		(-887 lbs)	4-8	0.668		(-887 lbs)
	3-8	0.153	922 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 2.00 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.
- 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. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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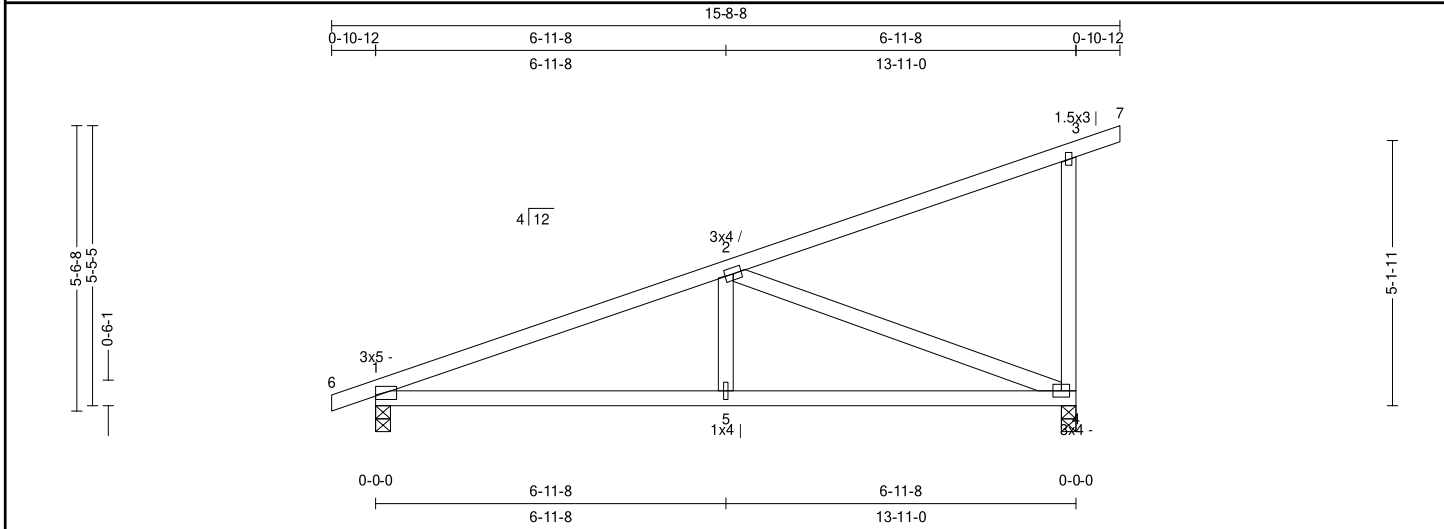
Truss:T03

Job: QU03400_RESERVE_BUILDING_H_R

Date: 10/30/25 08:19:04

Page: 1 of 1

SPAN 13-11-0	PITCH 4/12	QTY 2	OHL 0-10-12	OHR 0-10-12	CANT L 0-0-0	CANT R 0-0-0	PLYS 1	SPACING 24 in	WGT/PLY 61 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 : 0.55 (2-3)	Vert TL : 0.14 in	L / 999	(4-5)	L / 240
TCDL : 10	TPI 1-2014	BC : 0.66 (5-1)	Vert LL : 0.06 in	L / 999	(4-5)	L / 360
BCLL : 0	Rep Mbr : No	Web : 0.95 (2-4)	Horz TL : 0.02 in		4	
BCDL : 10	Lumber D.O.L. : 115 %					

10/30/2025

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	742 lbs	.	-32 lbs	-298 lbs	-298 lbs	185 lbs
4	1	3.5 in	1.50 in	758 lbs	.	-91 lbs	-360 lbs	-360 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 9-10-0, 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 tension force, (max compression force). Only forces greater than 300lbs are shown in this table.

TC	1-2	0.516	364 lbs	(-1,237 lbs)	BC	4-5	0.661	1,120 lbs	(-380 lbs)	Web	2-5	0.056	336 lbs	2-4	0.952	509 lbs	(-1,194 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 2.00 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.

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. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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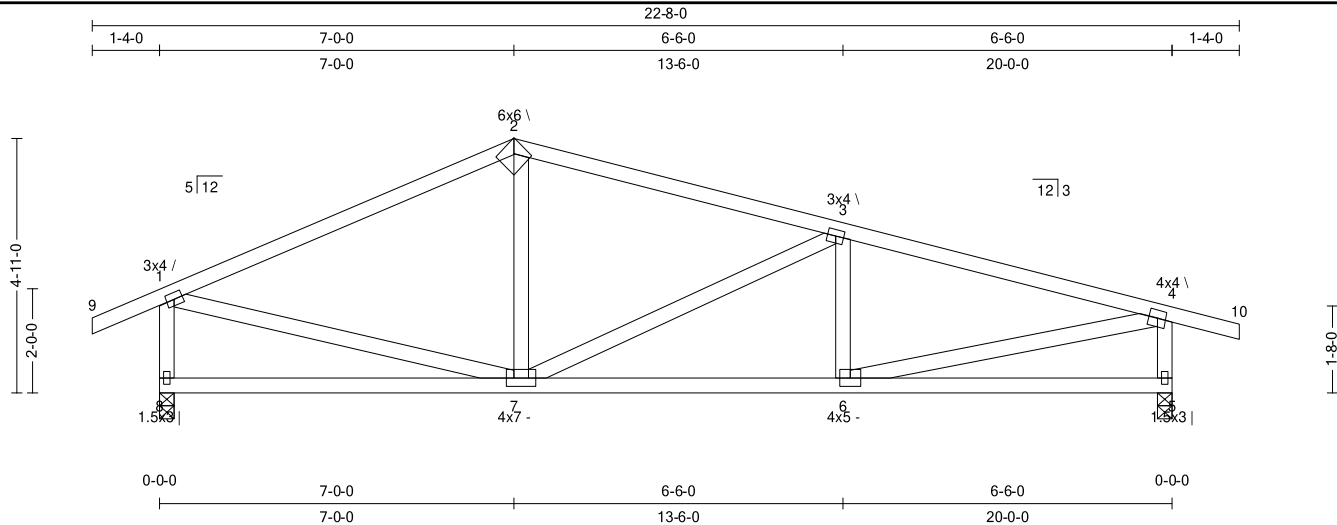
Truss:T06

Job: QU03400_RESERVE_BUILDING_H_R

Date: 10/30/25 08:19:05

Page: 1 of 1

SPAN 20-0-0	PITCH 5/12	QTY 5	OHL 1-4-0	OHR 1-4-0	CANT L 0-0-0	CANT R 0-0-0	PLYS 1	SPACING 24 in	WGT/PLY 103 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 : 0.61 (1-2)	Vert TL : 0.18 in	L / 999	(7-8)	L / 240
TCDL : 10	TPI 1-2014	BC : 0.59 (6-7)	Vert LL : 0.08 in	L / 999	(7-8)	L / 360
BCLL : 0	Rep Mbr : Yes	Web : 0.40 (3-7)	Horz TL : 0.01 in		5	
BCDL : 10	Lumber D.O.L. : 115 %					

10/30/2025

Reaction

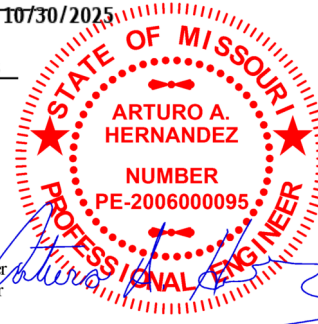
JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
8	1	3.5 in	1.50 in	1,080 lbs	.	-90 lbs	-352 lbs	-352 lbs	-64 lbs
5	1	3.5 in	1.50 in	1,080 lbs	.	-89 lbs	-345 lbs	-345 lbs	.

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 4-7-0, 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 tension force, (max compression force). Only forces greater than 300lbs are shown in this table.

TC	1-2	0.607	372 lbs	(-1,195 lbs)	3-4	0.380	437 lbs	(-1,596 lbs)			
	2-3	0.409	382 lbs	(-1,125 lbs)							
BC	6-7	0.590	1,509 lbs								
Web	1-8	0.105	387 lbs	(-960 lbs)	3-7	0.403	(-543 lbs)	4-5	0.102	377 lbs	(-968 lbs)
	1-7	0.178	1,072 lbs		4-6	0.256	1,546 lbs				(-329 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 2.00 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.

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. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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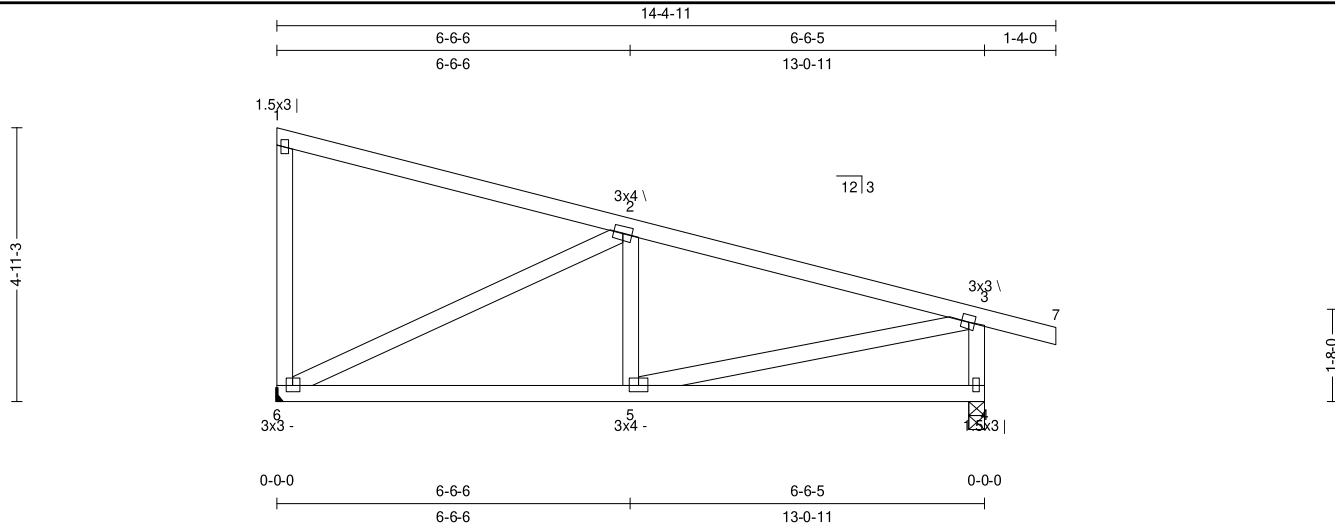
Truss:T07

Job: QU03400_RESERVE_BUILDING_H_R

Date: 10/30/25 08:19:07

Page: 1 of 1

SPAN 13-0-11	PITCH -3/12	QTY 2	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 68 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 : 0.60 (2-3)	Vert TL: 0.1 in	L / 999	(4-5)	L / 240
TCDL : 10	TPI 1-2014	BC : 0.56 (5-6)	Vert LL: 0.04 in	L / 999	(4-5)	L / 360
BCLL : 0	Rep Mbr : No	Web : 0.68 (2-6)	Horz TL: 0.01 in		4	
BCDL : 10	Lumber D.O.L. : 115 %					

10/30/2025

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
6	1	1.5 in	—	648 lbs	.	-65 lbs	-286 lbs	-286 lbs	-171 lbs
4	1	3.5 in	1.50 in	792 lbs	.	-50 lbs	-351 lbs	-351 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 5-6-0, 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) 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

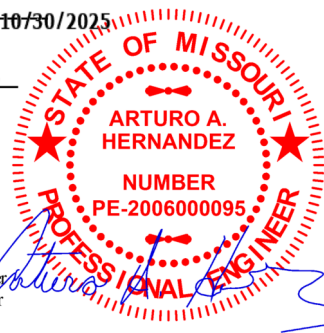
Member Forces

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

Member	Force 1	Force 2	Force 3	Force 4	Force 5	Force 6	Force 7
TC	2-3	0.602	330 lbs	(-886 lbs)			
BC	5-6	0.565	822 lbs				
Web	2-6	0.679	419 lbs	(-908 lbs)	3-4	0.072	381 lbs (-688 lbs)
	3-5	0.139	842 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).
- Hanger is for graphical interpretation only. Install hanger per manufacturer's recommendation.
- Brace bottom chord with approved sheathing or purlins per Bracing Summary.
- A creep factor of 2.00 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.



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. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown.

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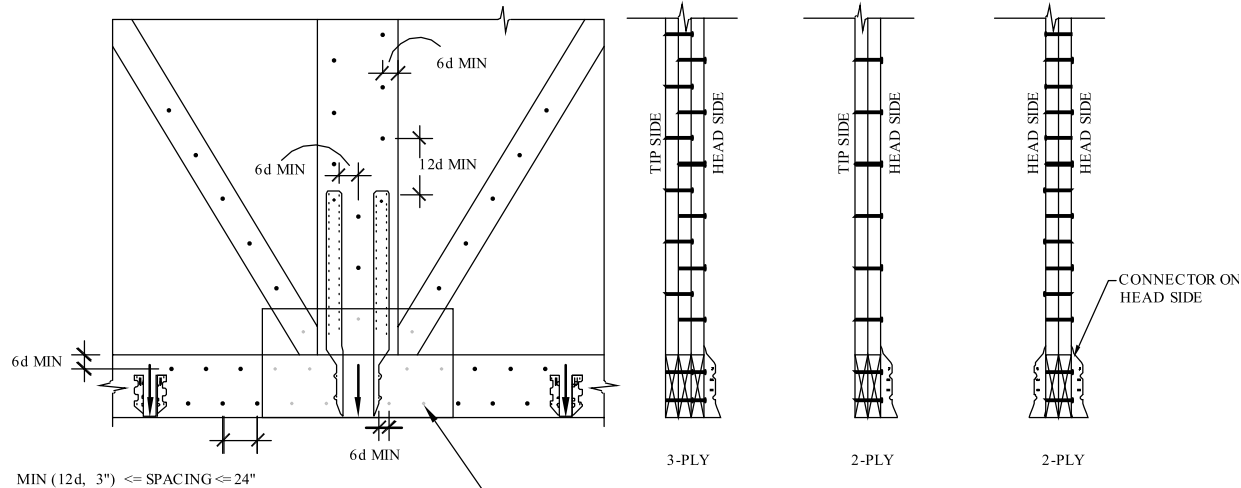
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	SP		SPF		SP		SPF		SP		SPF		SP		SPF		SP		SPF		SP		SPF	
	2-PLY	3-PLY	2-PLY	3-PLY	2-PLY	3-PLY	2-PLY	3-PLY	2-PLY	3-PLY	2-PLY	3-PLY	2-PLY	3-PLY	2-PLY	3-PLY	2-PLY	3-PLY	2-PLY	3-PLY	2-PLY	3-PLY	2-PLY	3-PLY
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7,000	50	67	65	86	39	52	51	68	38	50	49	65	31	41	45	60	27	36	35	47	23	30	29	39
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8,000	57	76	74	99	45	60	58	77	43	57	55	74	35	47	52	69	31	42	40	53	26	35	33	44
8,500	61	81	79	105	48	64	62	82	46	61	59	79	38	50	55	73	33	44	43	57	28	37	35	47
9,000	64	86	83	111	51	67	65	87	48	64	62	83	40	53	58	77	35	47	45	60	29	39	38	50
9,500	68	90	88	117	53	71	69	92	51	68	66	88	42	56	61	82	37	49	48	63	31	41	40	53
10,000	71	95	93	123	56	75	72	97	54	72	69	92	44	59	65	86	39	52	50	67	32	43	41	56
p =	P/70/2	2P/70/3	P/54/2	2P/54/3	P/89/2	2P/89/3	P/69/2	2P/69/3	P/93/2	2P/93/3	P/72/2	2P/72/3	P/113/2	2P/113/3	P/77/2	2P/77/3	P/128/2	2P/128/3	P/100/2	2P/100/3	P/154/2	2P/154/3	P/120/2	2P/120/3

(DETAILS ARE NOT TO SCALE)

NAIL TYPE	NAIL CHARACTERISTICS		
	EDGE	MIN SPACING	END
8d BOX (0.113Ø"x2.5")	3/4	1 3/8	1 3/4
10d BOX (0.128Ø"x3")	7/8	1 5/8	2
12d BOX (0.128Ø"x3.25")	7/8	1 5/8	2
16d BOX (0.135Ø"x3.5")	7/8	1 5/8	2 1/8
20d BOX (0.148Ø"x4")	1	1 7/8	2 1/4
8d COMMON (0.131Ø"x2.5")	7/8	1 5/8	2
10d COMMON (0.148Ø"x3.0")	1	1 7/8	2 1/4
12d COMMON (0.148Ø"x3.25")	1	1 7/8	2 1/4
16d COMMON (0.162Ø"x3.5")	1	2	2 1/2
0.120"x2.5" GUN	3/4	1 1/2	1 7/8
0.131"x2.5" GUN	7/8	1 5/8	2
0.120"x3.0" GUN	3/4	1 1/2	1 7/8
0.131"x3.0" GUN	7/8	1 5/8	2

GENERAL NOTES

- EDGE DISTANCE AND SPACING BETWEEN STAGGERED ROWS IS 6d; NAILS MAY NOT BE WITHIN EDGE LINE.
- SPACING OF NAILS IN A ROW IS 12d.
- END DISTANCE IS 15d; IN ADDITION TO NOTE #2, NAILS MAY NOT BE WITHIN END DISTANCES FROM END OF THE BOARD.
- WHEN 3-PLIES ARE USED, INSTALL NAILS INTO 2-PLIES WITH 2x THE NAIL SPACING; THEN ADD THIRD PLY WITH 2x NAIL SPACING.
- RECOMMEND 1 ROW FOR 2x4, 2 ROWS FOR 2x6 & 2x8, 3 ROWS FOR 2x10 & 2x12.
- IF TRUSSES ARE SUPPORTED ON BOTH SIDES, DOUBLE THE SPACING AND ALTERNATE HEADS OF NAILS ON OPPOSING SIDES.



AVOID SCREWING THROUGH PLATES, OR PRE-DRILL & VERIFY PLATE HAS RESERVE CAPACITY

DRAWING NUMBER
DR-1

REV: 2.1
ENG: MDV
CAD: RC
DATE: 03/16/18

MULTI-PLY TRUSS GIRDER PLY CONNECTOR FOR ISOLATED POINT LOADS (NAILS)



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