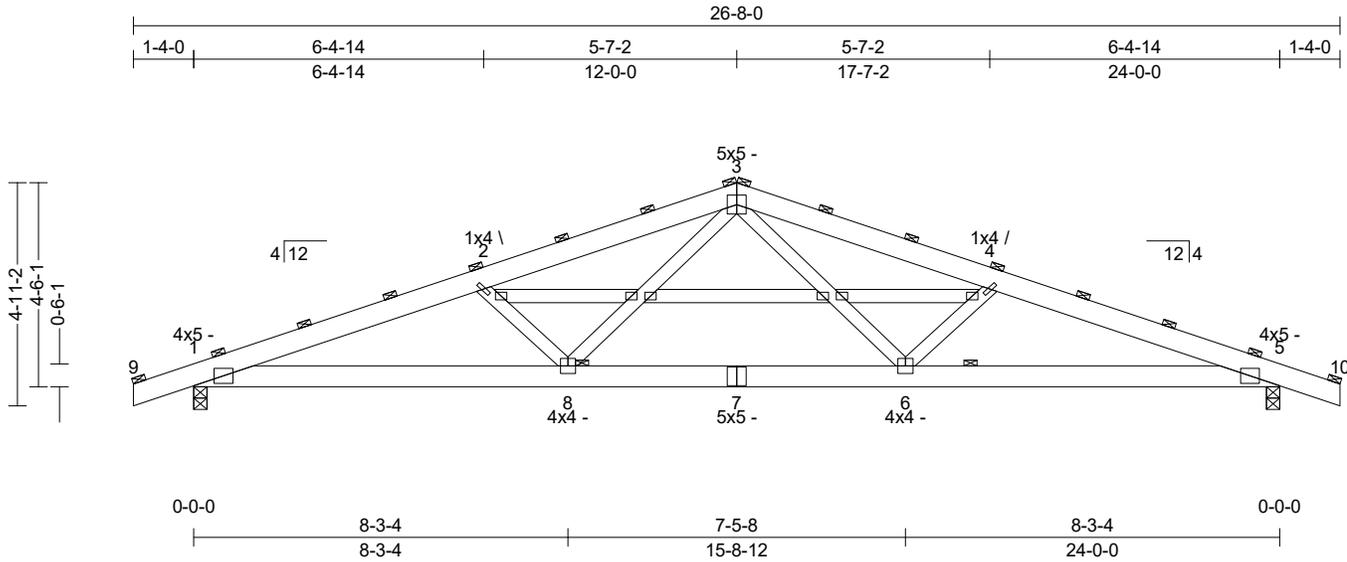




WATSON METALS
 2425 MCMINNVILLE HWY
 PHONE: (931)-616-0055
 MANCHESTER TN 37355

Truss: GABLE
 Job: STOCK 24S
 Designer: RYAN WATSON
 Date: 07/27/23 08:17:59
 Page: 1 of 2

SPAN 24-0-0	PITCH 4/12	QTY 1	OHL 1-4-0	OHR 1-4-0	CANT L 0-0-0	CANT R 0-0-0	PLYS 1	SPACING 48 in	WGT/PLY 151 lbs
----------------	---------------	----------	--------------	--------------	-----------------	-----------------	-----------	------------------	--------------------



All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 20	Bldg Code: IBC 2009/	TC: 0.34 (2-3)	Vert TL: 0.22 in	L/999	7	L/120
TCDL: 5(rake)	TPI 1-2007	BC: 0.52 (5-6)	Vert LL: 0.14 in	L/999	7	L/180
BCLL: 0	Rep Mbr: No	Web: 0.22 (3-6)	Horz TL: 0.06 in		5	
BCDL: 5	Lumber D.O.L.: 125%					

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	1.87 in	1,588 lbs	.	-472 lbs	-416 lbs	-472 lbs	15 lbs
5	1	3.5 in	1.87 in	1,588 lbs	.	-472 lbs	-416 lbs	-472 lbs	.

Material

TC: SYP#1 2 x 6
 BC: SYP#1 2 x 6
 Web: SYP#2 2 x 4

Bracing

TC: Purlins at 24" OC, Purlin design by Others.
 BC: Sheathed or Purlins at 8-7-0, Purlin design by Others.

Loads

- This truss has been designed for the effects of balanced (12.6 psf) and unbalanced sloped roof snow loads in accordance with ASCE7 - 05 with the following user defined input: 20 psf GSL, Terrain C, Exposure (Ce = 1.0), Building Category I (I = 0.80), Thermal (Ct = 1.20), DOL = 1.15. Unobstructed slippery surface. 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 - 05 with the following user defined input: 90 mph, Exposure C, Partial, Gable/Hip, Building Category I (I = 0.87), h = 15 ft, Not End Zone Truss, Both end webs considered. DOL = 1.60
- Unbalanced roof live loads have not been considered.
- Minimum storage attic loading has not been applied in accordance with IBC 1607.1.
- In accordance with IBC 1607.1, minimum BCLL's do not apply.
- This truss is designed as an agricultural truss which for the purposes of this program is defined as a structure that represents a low hazard to people and property. See BCSI-10 for installation and temporary bracing.

Member Forces

Table indicates: Member ID, max CSL, 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	0.338	-3,431 lbs	3-4	0.338	-2,998 lbs			
	2-3	0.338	-2,998 lbs	4-5	0.338	-3,431 lbs			
BC	5-6	0.520	3,187 lbs (-802 lbs)	6-8	0.311	2,199 lbs (-457 lbs)	8-1	0.520	3,187 lbs (-802 lbs)
Web	2-8	0.114	-678 lbs	3-8	0.215	877 lbs (-146 lbs)	3-6	0.215	877 lbs (-146 lbs)
							4-6	0.114	-678 lbs



WATSON METALS
2425 MCMINNVILLE HWY
PHONE: (931)-616-0055
MANCHESTER TN 37355

Truss: GABLE
Job: STOCK 24S
Designer: RYAN WATSON
Date: 07/27/23 08:17:59
Page: 2 of 2

SPAN	PITCH	QTY	OHL	OHR	CANT L	CANT R	PLYS	SPACING	WGT/PLY
24-0-0	4/12	1	1-4-0	1-4-0	0-0-0	0-0-0	1	48 in	151 lbs

Notes

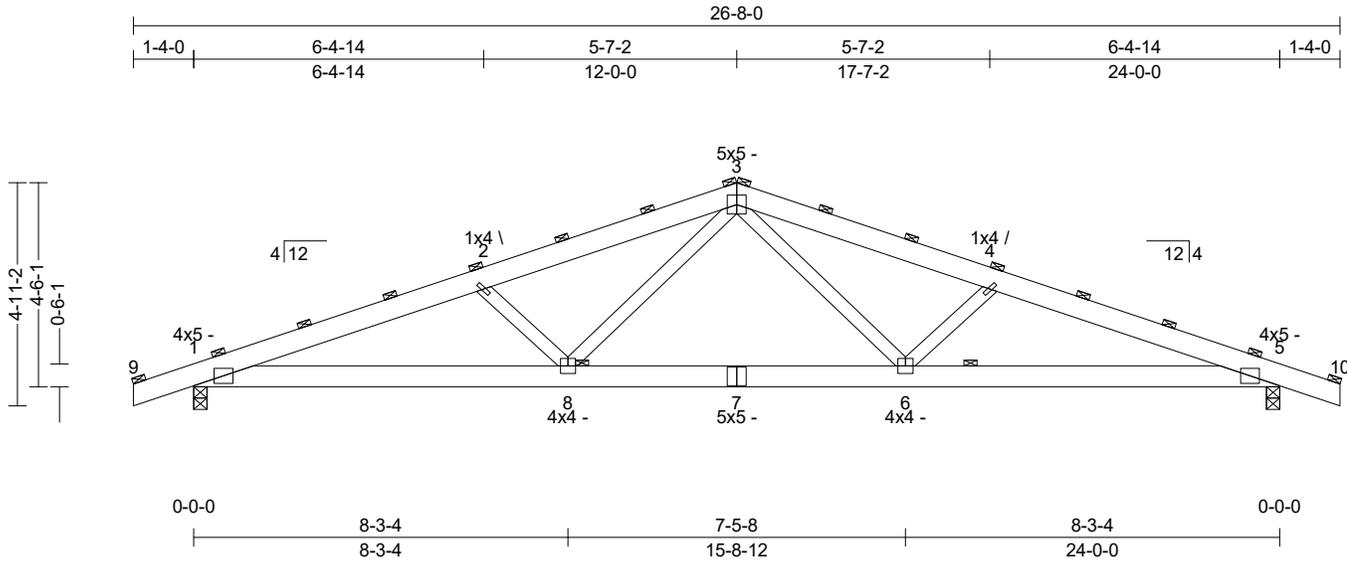
- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) Gable webs placed at 24" OC, U.N.O.
- 3) Attach structural gable blocks with 2x3 20ga plates, U.N.O.
- 4) Bracing shown is for in-plane requirements. For out-of-plane requirements, refer to BCSI-B3 published by the SBCA.
- 5) Building Designer shall verify self weight of the truss and other dead load materials do not exceed TC DL 5 psf.
- 6) Building Designer shall verify self weight of the truss and other dead load materials do not exceed BC DL 5 psf.
- 7) Design assumes minimum 2x (vertical orientation, visually graded) purlins attached to the TC at purlin spacing shown with at least 2-10d nails.
- 8) Lateral bracing shown is for illustration purposes only and may be placed on either edge of truss member.
- 9) A creep factor of 1.00 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) Listed wind uplift reactions based on MWFRS & C&C loading.



WATSON METALS
 2425 MCMINNVILLE HWY
 PHONE: (931)-616-0055
 MANCHESTER TN 37355

Truss: REG
 Job: STOCK 24S
 Designer: RYAN WATSON
 Date: 07/27/23 08:17:59
 Page: 1 of 2

SPAN 24-0-0	PITCH 4/12	QTY 1	OHL 1-4-0	OHR 1-4-0	CANT L 0-0-0	CANT R 0-0-0	PLYS 1	SPACING 48 in	WGT/PLY 136 lbs
----------------	---------------	----------	--------------	--------------	-----------------	-----------------	-----------	------------------	--------------------



All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 20	Bldg Code: IBC 2009/	TC: 0.34 (2-3)	Vert TL: 0.22 in	L / 999	7	L / 120
TCDL: 5 (rake)	TPI 1-2007	BC: 0.52 (5-6)	Vert LL: 0.14 in	L / 999	7	L / 180
BCLL: 0	Rep Mbr: No	Web: 0.22 (3-6)	Horz TL: 0.06 in		5	
BCDL: 5	Lumber D.O.L.: 125%					

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	1.87 in	1,588 lbs	.	-472 lbs	-416 lbs	-472 lbs	15 lbs
5	1	3.5 in	1.87 in	1,588 lbs	.	-472 lbs	-416 lbs	-472 lbs	.

Material

TC: SYP#1 2 x 6
 BC: SYP#1 2 x 6
 Web: SYP#2 2 x 4

Bracing

TC: Purlins at 24" OC, Purlin design by Others.
 BC: Sheathed or Purlins at 8-7-0, Purlin design by Others.

Loads

- This truss has been designed for the effects of balanced (12.6 psf) and unbalanced sloped roof snow loads in accordance with ASCE7 - 05 with the following user defined input: 20 psf GSL, Terrain C, Exposure (Ce = 1.0), Building Category I (I = 0.80), Thermal (Ct = 1.20), DOL = 1.15. Unobstructed slippery surface. 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 - 05 with the following user defined input: 90 mph, Exposure C, Partial, Gable/Hip, Building Category I (I = 0.87), h = 15 ft, Not End Zone Truss, Both end webs considered. DOL = 1.60
- Unbalanced roof live loads have not been considered.
- Minimum storage attic loading has not been applied in accordance with IBC 1607.1
- In accordance with IBC 1607.1, minimum BCLL's do not apply.
- This truss is designed as an agricultural truss which for the purposes of this program is defined as a structure that represents a low hazard to people and property. See BCSI-10 for installation and temporary bracing.

Member Forces

Table indicates: Member ID, max CSL, 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	0.338	-3,431 lbs	3-4	0.338	-2,998 lbs			
	2-3	0.338	-2,998 lbs	4-5	0.338	-3,431 lbs			
BC	5-6	0.520	3,187 lbs (-802 lbs)	6-8	0.311	2,199 lbs (-457 lbs)	8-1	0.520	3,187 lbs (-802 lbs)
Web	2-8	0.114	-678 lbs	3-8	0.215	877 lbs (-146 lbs)	3-6	0.215	877 lbs (-146 lbs)
							4-6	0.114	-678 lbs

Notes

- Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- Building Designer shall verify self weight of the truss and other dead load materials do not exceed TC DL 5 psf.
- Building Designer shall verify self weight of the truss and other dead load materials do not exceed BC DL 5 psf.



WATSON METALS
2425 MCMINNVILLE HWY
PHONE: (931)-616-0055
MANCHESTER TN 37355

Truss: REG
Job: STOCK 24S
Designer: RYAN WATSON
Date: 07/27/23 08:17:59
Page: 2 of 2

SPAN	PITCH	QTY	OHL	OHR	CANT L	CANT R	PLYS	SPACING	WGT/PLY
24-0-0	4/12	1	1-4-0	1-4-0	0-0-0	0-0-0	1	48 in	136 lbs

- 4) Design assumes minimum 2x_ (vertical orientation, visually graded) purlins attached to the TC at purlin spacing shown with at least 2-10d nails.
- 5) Brace bottom chord with approved sheathing or purlins per Bracing Summary.
- 6) Lateral bracing shown is for illustration purposes only and may be placed on either edge of truss member.
- 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.