RE: B240144
Lot 10 CB

MiTek, Inc.
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer: Summit Homes Project Name: B240144
Lot/Block: 10 Model: Palmetto - Farmhouse 1
Address: 3441 SE Corbin Dr Subdivision: Cobey Creek
City: Lee's Summit State: MO

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2012/TPI2007 Design Program: MiTek 20/20 8.7
Wind Code: Wind Speed: 115 mph
Roof Load: 45.0 psf Floor Load: N/A psf

This package includes 23 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I66588884	A1	7/2/2024	21	I66588904	V2	7/2/2024
2	I66588885	A2	7/2/2024	22	I66588905	V3	7/2/2024
3	I66588886	A3	7/2/2024	23	I66588906	V4	7/2/2024
4	I66588887	A4	7/2/2024				
5	I66588888	B1	7/2/2024				
6	I66588889	B2	7/2/2024				
7	I66588890	B3	7/2/2024				
8	I66588891	B4	7/2/2024				
9	I66588892	B5	7/2/2024				
10	I66588893	B6	7/2/2024				
11	I66588894	B7	7/2/2024				
12	I66588895	B8	7/2/2024				
13	I66588896	B9	7/2/2024				
14	I66588897	B10	7/2/2024				
15	I66588898	C1	7/2/2024				
16	I66588899	G1	7/2/2024				
17	I66588900	J1	7/2/2024				
18	I66588901	J2	7/2/2024				
19	I66588902	LAY1	7/2/2024				
20	I66588903	V1	7/2/2024				

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc under my direct supervision based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of Missouri is December 31, 2025.

Missouri COA: 001193

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

July 02, 2024

Sevier, Scott

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/20/2024 3:59:02

Job	Truss	Truss Type	Qty	Ply	Lot 10 CB	
B240144	A1	Common Supported Gable	1	1	Job Reference (optional)	I66588884

Wheeler Lumber, Waverly, KS - 66871,

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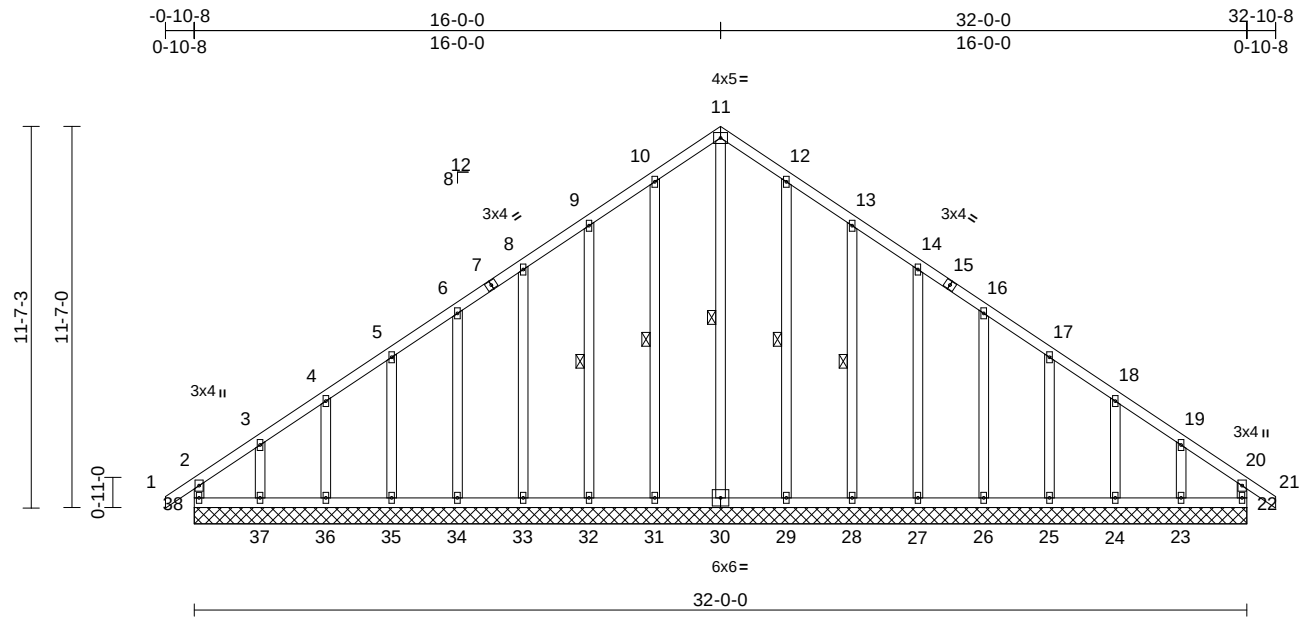

Scale = 1:70

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	22	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 188 lb	FT = 10%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
OTHERS 2x4 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 11-30, 10-31, 9-32, 12-29, 13-28

REACTIONS (size) 22=32-0-0, 23=32-0-0, 24=32-0-0, 25=32-0-0, 26=32-0-0, 27=32-0-0, 28=32-0-0, 29=32-0-0, 30=32-0-0, 31=32-0-0, 32=32-0-0, 33=32-0-0, 34=32-0-0, 35=32-0-0, 36=32-0-0, 37=32-0-0, 38=32-0-0
Max Horiz 38=320 (LC 7)
Max Uplift 22=-79 (LC 5), 23=-156 (LC 9), 24=-50 (LC 9), 25=-75 (LC 9), 26=-69 (LC 9), 27=-69 (LC 9), 28=-77 (LC 9), 29=-56 (LC 9), 31=-58 (LC 8), 32=-76 (LC 8), 33=-69 (LC 8), 34=-69 (LC 8), 35=-76 (LC 8), 36=-46 (LC 8), 37=-173 (LC 8), 38=-140 (LC 4)
Max Grav 22=208 (LC 15), 23=226 (LC 16), 24=184 (LC 1), 25=189 (LC 16), 26=186 (LC 16), 27=187 (LC 16), 28=187 (LC 16), 29=193 (LC 16), 30=311 (LC 9), 31=196 (LC 15), 32=185 (LC 15), 33=187 (LC 15), 34=186 (LC 15), 35=191 (LC 15), 36=184 (LC 1), 37=250 (LC 15), 38=255 (LC 16)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-38=-210/118, 1-2=0/40, 2-3=-244/223, 3-4=-180/171, 4-5=-168/167, 5-6=-148/178, 6-8=-130/215, 8-9=-112/251, 9-10=-96/292, 10-11=-83/320, 11-12=-70/308, 12-13=-49/255, 13-14=-60/215, 14-16=-74/179, 16-17=-87/141, 17-18=-102/104, 18-19=-114/106, 19-20=-178/148, 20-21=0/40, 20-22=-172/69
BOT CHORD 37-38=-135/164, 36-37=-135/164, 35-36=-135/164, 34-35=-135/164, 33-34=-135/164, 32-33=-135/164, 31-32=-135/164, 29-31=-135/164, 28-29=-135/164, 27-28=-135/164, 26-27=-135/164, 25-26=-135/164, 24-25=-135/164, 23-24=-135/164, 22-23=-135/164
WEBS 11-30=-287/16, 10-31=-156/82, 9-32=-145/100, 8-33=-147/93, 6-34=-146/93, 5-35=-148/97, 4-36=-144/82, 3-37=-176/149, 12-29=-153/80, 13-28=-147/101, 14-27=-147/93, 16-26=-147/94, 17-25=-148/96, 18-24=-144/84, 19-23=-162/139

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
10) All bearings are assumed to be SPF No.2 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 140 lb uplift at joint 38, 79 lb uplift at joint 22, 58 lb uplift at joint 31, 76 lb uplift at joint 32, 69 lb uplift at joint 33, 69 lb uplift at joint 34, 76 lb uplift at joint 35, 46 lb uplift at joint 36, 173 lb uplift at joint 37, 56 lb uplift at joint 29, 77 lb uplift at joint 28, 69 lb uplift at joint 27, 69 lb uplift at joint 26, 75 lb uplift at joint 25, 50 lb uplift at joint 24 and 156 lb uplift at joint 23.

LOAD CASE(S) Standard

July 2,2024

Job	Truss	Truss Type	Qty	Ply	Lot 10 CB	
B240144	A2	Common	6	1	Job Reference (optional)	I66588885

Wheeler Lumber, Waverly, KS - 66871,

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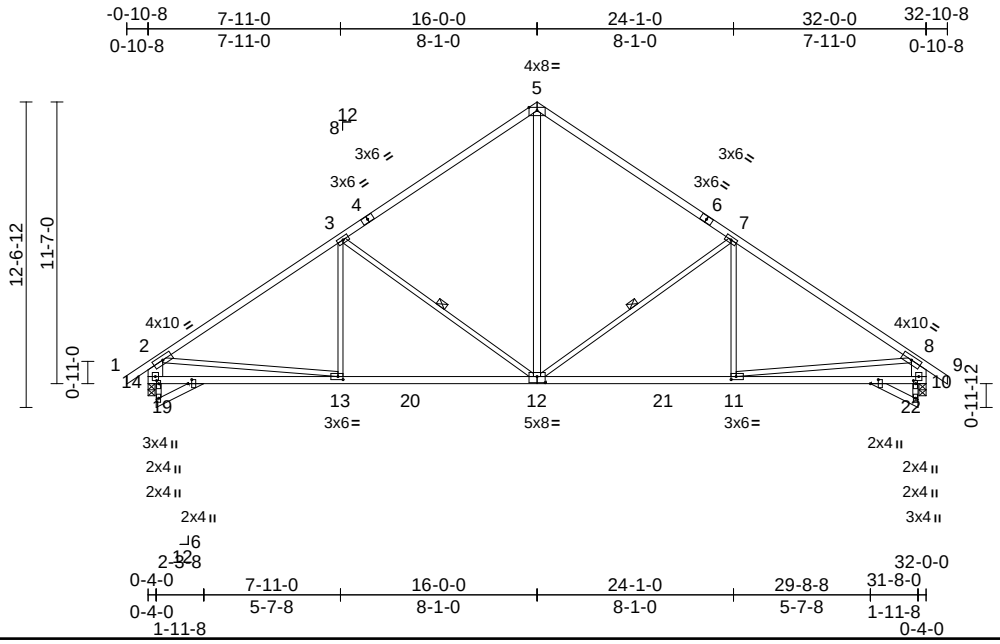

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Plate Offsets (X, Y): [10:0-1-8,0-1-0], [11:0-2-8,0-1-8], [12:0-4-0,0-3-0], [13:0-2-8,0-1-8], [14:0-1-8,0-1-0], [16:0-2-0,0-1-15], [17:0-2-0,0-3-15]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.14	12-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.26	12-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.05	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.05	12-13	>999	240	Weight: 143 lb	FT = 10%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except* 12-5:2x4 SPF No.2, 14-2,10-8:2x8 SP 2400F 2.0E

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-12, 3-12

REACTIONS (size) 10=0-3-8, 14=0-3-8
Max Horiz 14=-324 (LC 6)
Max Uplift 10=-187 (LC 9), 14=-187 (LC 8)
Max Grav 10=1623 (LC 16), 14=1623 (LC 15)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-2043/227, 3-5=-1481/277, 5-7=-1481/277, 7-8=-2044/227, 8-9=0/46, 2-14=-1507/228, 8-10=-1506/228
BOT CHORD 13-14=-327/717, 11-13=-226/1798, 10-11=-163/485
WEBS 5-12=-108/1022, 7-12=-733/281, 7-11=0/294, 3-12=-733/282, 3-13=0/294, 2-13=0/1199, 8-11=0/1210

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) All bearings are assumed to be SPF No.2 .
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 187 lb uplift at joint 14 and 187 lb uplift at joint 10.

LOAD CASE(S) Standard

July 2,2024

Job	Truss	Truss Type	Qty	Ply	Lot 10 CB	I66588886
B240144	A3	Roof Special	3	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

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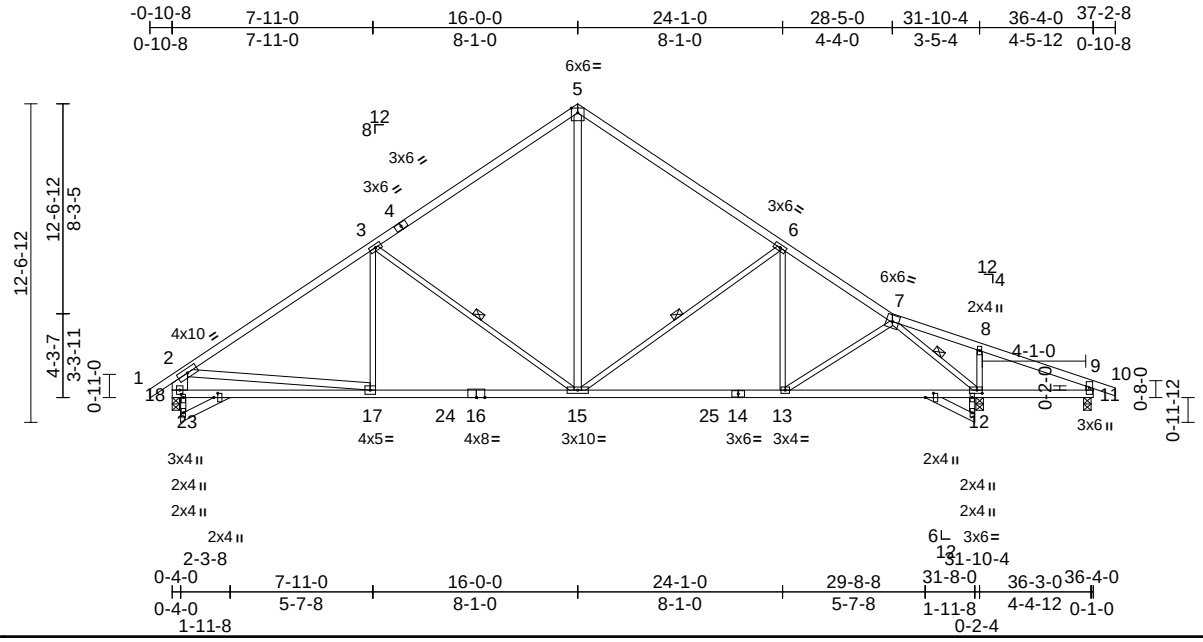

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Plate Offsets (X, Y): [12:0-2-8,0-1-8], [18:0-1-8,0-1-0], [20:0-2-0,0-1-15], [21:0-2-0,0-3-15]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.15	13-15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.26	13-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.06	12	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.06	13-15	>999	240	Weight: 155 lb	FT = 10%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except* 15-5,17-2,11-9:2x4 SPF No.2, 18-2:2x8 SP 2400F 2.0E

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 11-12.
WEBS 1 Row at midpt 3-15, 6-15, 7-12

REACTIONS (size) 11=0-3-8, 12=0-3-8, 18=0-3-8
Max Horiz 18=-331 (LC 6)
Max Uplift 11=-126 (LC 5), 12=-196 (LC 9), 18=-188 (LC 8)
Max Grav 11=147 (LC 22), 12=1903 (LC 2), 18=1605 (LC 15)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-2015/228, 3-5=-1434/280, 5-6=-1449/277, 6-7=-1805/243, 7-8=0/349, 8-9=-6/361, 9-10=0/23, 2-18=-1490/229, 9-11=-138/141
BOT CHORD 17-18=-335/700, 15-17=-233/1780, 13-15=-58/1535, 12-13=-110/1280, 11-12=-277/27
WEBS 3-17=0/295, 3-15=-736/281, 5-15=-107/986, 6-15=-629/277, 6-13=0/244, 8-12=-368/158, 2-17=0/1192, 7-13=0/316, 7-12=-2058/171

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) All bearings are assumed to be SPF No.2 .
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint 18, 196 lb uplift at joint 12 and 126 lb uplift at joint 11.

LOAD CASE(S) Standard

July 2,2024

Job	Truss	Truss Type	Qty	Ply	Lot 10 CB	
B240144	A4	Monopitch Structural Gable	1	1	Job Reference (optional)	I66588887

Wheeler Lumber, Waverly, KS - 66871,

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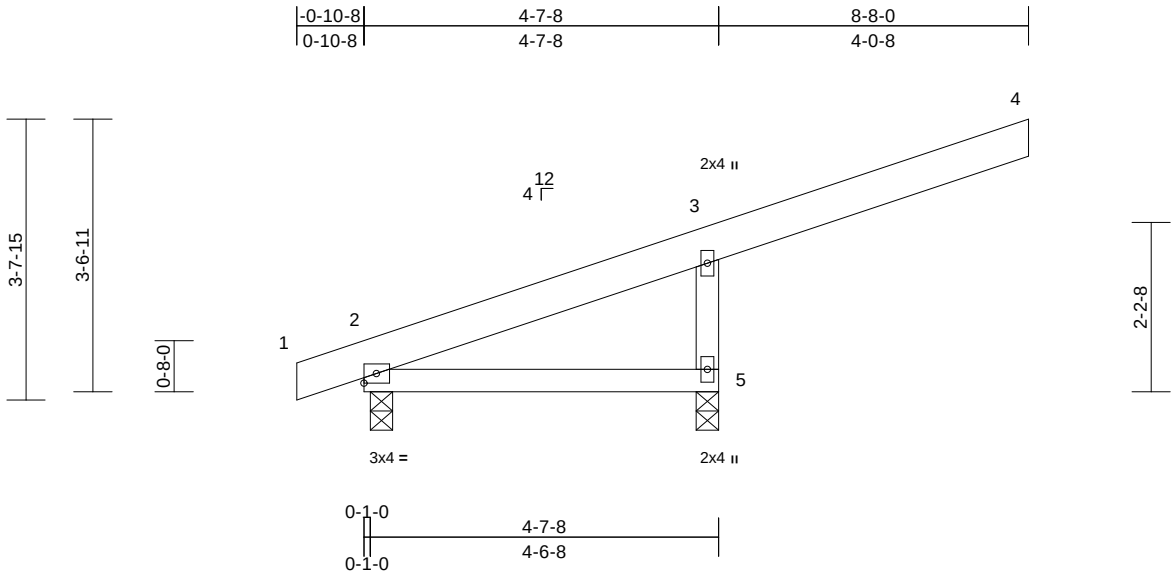

Scale = 1:30

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.02	2-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.04	2-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 25 lb	FT = 10%

LUMBER
TOP CHORD 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-7-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 5=0-3-8
Max Horiz 2=137 (LC 5)
Max Uplift 2=-4 (LC 4), 5=-239 (LC 5)
Max Grav 2=133 (LC 1), 5=621 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/1, 2-3=-139/108, 3-4=-93/0, 3-5=-578/265
BOT CHORD 2-5=-25/19

NOTES
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Gable studs spaced at 2-0-0 oc.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SPF No.2 .
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 239 lb uplift at joint 5 and 4 lb uplift at joint 2.

LOAD CASE(S) Standard

July 2,2024

Job	Truss	Truss Type	Qty	Ply	Lot 10 CB	
B240144	B1	Common Structural Gable	1	1	Job Reference (optional)	I66588888

Wheeler Lumber, Waverly, KS - 66871,

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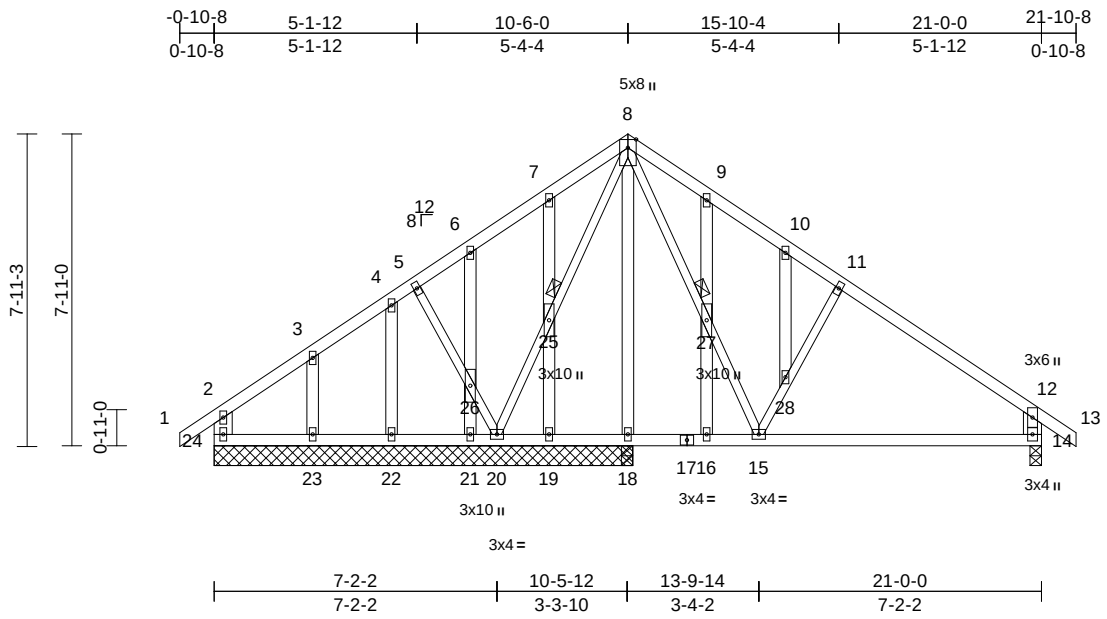

Scale = 1:58.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.06	14-15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.11	14-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.01	16	>999	240	Weight: 115 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except* 24-2,14-12:2x6 SPF No.2

OTHERS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 14-15.

JOINTS 1 Brace at Jt(s): 25, 27

REACTIONS (size) 14=0-3-8, 18=10-7-8, 19=10-7-8, 20=10-7-8, 21=10-7-8, 22=10-7-8, 23=10-7-8, 24=10-7-8

Max Horiz 24=-224 (LC 6)

Max Uplift 14=-128 (LC 9), 19=-55 (LC 8), 20=-39 (LC 9), 21=-36 (LC 8), 22=-13 (LC 4), 23=-122 (LC 8), 24=-35 (LC 4)

Max Grav 14=499 (LC 22), 18=609 (LC 1), 19=172 (LC 21), 20=210 (LC 1), 21=143 (LC 21), 22=127 (LC 21), 23=264 (LC 15), 24=170 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/43, 2-3=-69/131, 3-4=-36/101, 4-5=-35/115, 5-6=-27/155, 6-7=-20/184, 7-8=-4/189, 8-9=-245/249, 9-10=-230/202, 10-11=-258/172, 11-12=-409/151, 12-13=0/43, 2-24=-150/46, 12-14=-434/170

BOT CHORD 23-24=-155/149, 22-23=-155/149, 21-22=-155/149, 20-21=-155/149, 19-20=-103/114, 18-19=-103/114, 16-18=-109/113, 15-16=-109/113, 14-15=-31/254

WEBS 8-27=-147/486, 15-27=-151/518, 20-25=-136/56, 8-25=-142/58, 15-28=-284/195, 11-28=-246/168, 5-26=-119/83, 20-26=-133/92, 8-18=-451/0, 7-25=-159/94, 19-25=-161/90, 6-26=-119/67, 21-26=-113/56, 4-22=-87/31, 3-23=-198/133, 9-27=-135/62, 16-27=-169/67, 10-28=-45/30

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be SPF No.2 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at joint 14, 39 lb uplift at joint 20, 35 lb uplift at joint 24, 55 lb uplift at joint 19, 36 lb uplift at joint 21, 13 lb uplift at joint 22 and 122 lb uplift at joint 23.

LOAD CASE(S) Standard

July 2,2024

Job	Truss	Truss Type	Qty	Ply	Lot 10 CB	
B240144	B2	Common	6	1	Job Reference (optional)	I66588889

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Mon Jul 01 08:12:24
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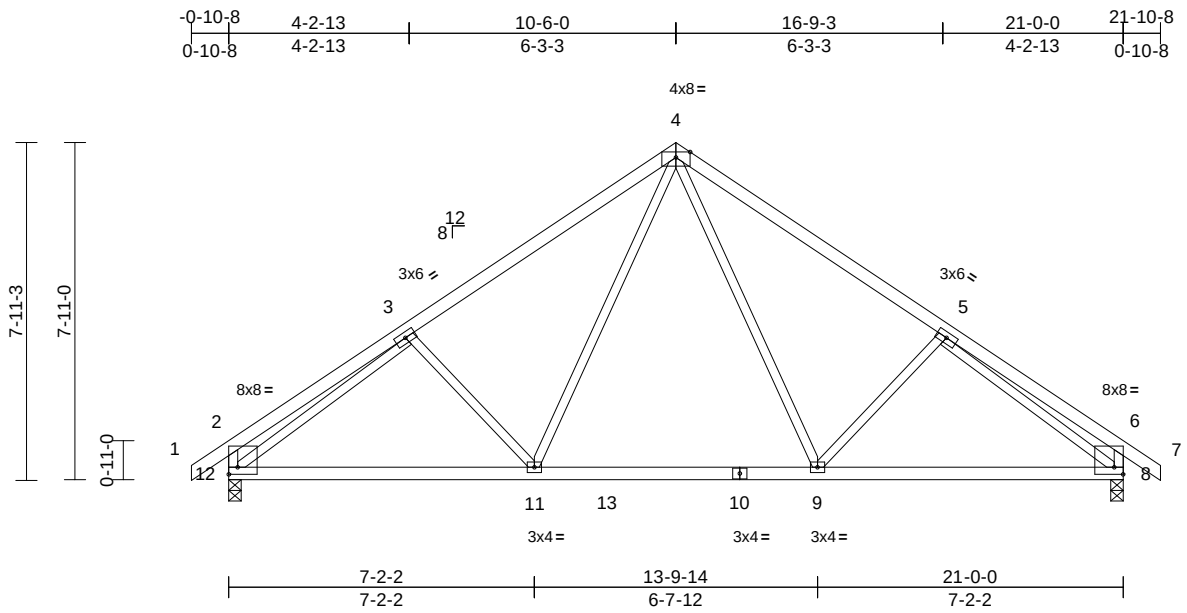

Scale = 1:54.1

Plate Offsets (X, Y): [2:Edge,0-2-0], [6:Edge,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.08	9-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.14	8-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.03	9-11	>999	240	Weight: 84 lb	FT = 10%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-6-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 8=0-3-8, 12=0-3-8
Max Horiz 12=-223 (LC 6)
Max Uplift 8=-128 (LC 9), 12=-128 (LC 8)
Max Grav 8=1084 (LC 16), 12=1084 (LC 15)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/38, 2-3=-303/48, 3-4=-1168/194, 4-5=-1168/194, 5-6=-303/48, 6-7=0/38, 2-12=-309/77, 6-8=-309/77
BOT CHORD 11-12=-194/1146, 9-11=-3/775, 8-9=-83/989
WEBS 4-9=-91/503, 5-9=-263/230, 4-11=-90/504, 3-11=-263/230, 3-12=-1037/138, 5-8=-1037/139

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) All bearings are assumed to be SPF No.2 .
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at joint 12 and 128 lb uplift at joint 8.

LOAD CASE(S) Standard

July 2,2024

Job	Truss	Truss Type	Qty	Ply	Lot 10 CB	
B240144	B3	Common	4	1	Job Reference (optional)	I66588890

Wheeler Lumber, Waverly, KS - 66871,

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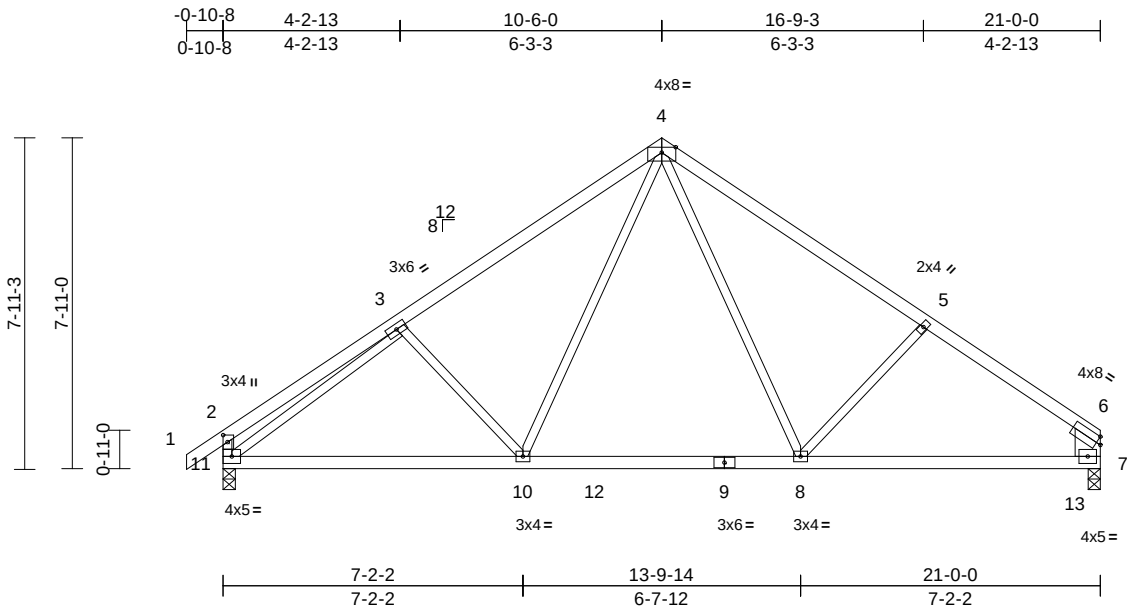

Scale = 1:55.2

Plate Offsets (X, Y): [2:0-2-0,0-1-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.17	8-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.27	8-10	>913	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.09	8-10	>999	240	Weight: 81 lb	FT = 10%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except* 7-6:2x8 SP 2400F 2.0E

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-7-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 7=0-3-8, 11=0-3-8
Max Horiz 11=219 (LC 5)
Max Uplift 7=-103 (LC 9), 11=-127 (LC 8)
Max Grav 7=1005 (LC 16), 11=1076 (LC 15)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/38, 2-3=-296/48, 3-4=-1160/193, 4-5=-1094/185, 5-6=-1251/176, 2-11=-307/77, 6-7=-851/133
BOT CHORD 10-11=-205/1129, 8-10=-14/753, 7-8=-103/920
WEBS 4-8=-78/411, 5-8=-251/225, 4-10=-92/526, 3-10=-260/229, 3-11=-1035/138

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) All bearings are assumed to be SPF No.2 .
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 7 and 127 lb uplift at joint 11.

LOAD CASE(S) Standard

July 2,2024

Job	Truss	Truss Type	Qty	Ply	Lot 10 CB	
B240144	B4	Common	3	1	Job Reference (optional)	I66588891

Wheeler Lumber, Waverly, KS - 66871,

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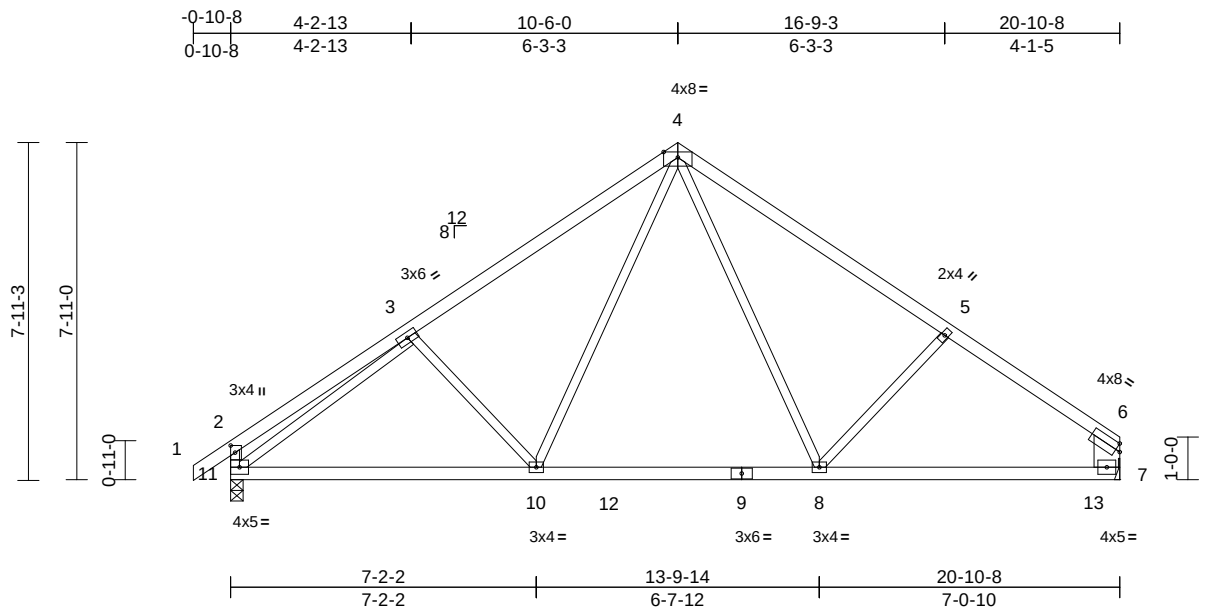

Scale = 1:54.1

Plate Offsets (X, Y): [2:0-2-0,0-1-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.18	8-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.29	8-10	>848	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.09	8-10	>999	240	Weight: 81 lb	FT = 10%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except* 7-6:2x8 SP 2400F 2.0E

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 7= Mechanical, 11=0-3-8
Max Horiz 11=221 (LC 5)
Max Uplift 7=-102 (LC 9), 11=-127 (LC 8)
Max Grav 7=998 (LC 16), 11=1070 (LC 15)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/38, 2-3=-295/48, 3-4=-1152/193, 4-5=-1069/181, 5-6=-1219/172, 2-11=-306/77, 6-7=-842/130
BOT CHORD 10-11=-204/1122, 8-10=-13/745, 7-8=-102/888
WEBS 4-8=-75/384, 5-8=-234/221, 4-10=-92/529, 3-10=-260/229, 3-11=-1028/137

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) All bearings are assumed to be SPF No.2 .
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 11 and 102 lb uplift at joint 7.

LOAD CASE(S) Standard

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

July 2,2024

Job	Truss	Truss Type	Qty	Ply	Lot 10 CB	I66588892
B240144	B5	Roof Special	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

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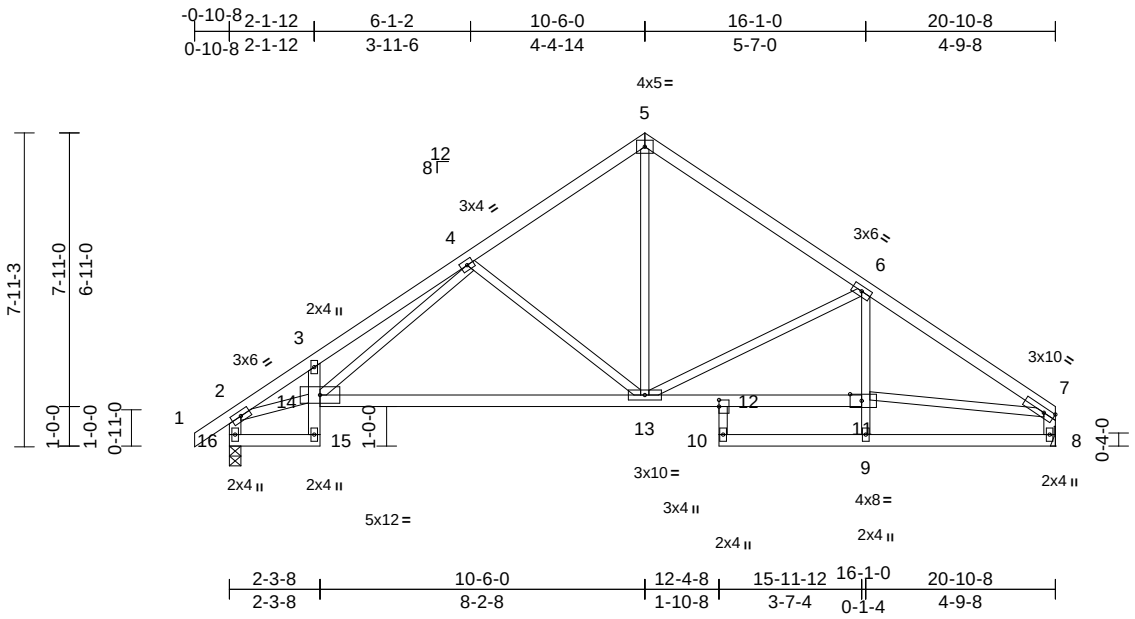
Page: 1



Scale = 1:58.2

Plate Offsets (X, Y): [11:0-3-8,0-2-0], [12:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.15	13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.32	13-14	>768	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.09	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.06	13-14	>999	240	Weight: 89 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 12-10:2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 16-2,8-7:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-14 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 8= Mechanical, 16=0-3-8

Max Horiz 16=220 (LC 5)

Max Uplift 8=-103 (LC 9), 16=-128 (LC 8)

Max Grav 8=924 (LC 1), 16=999 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/40, 2-3=-1811/259, 3-4=-1963/380, 4-5=-997/163, 5-6=-1021/176, 6-7=-1478/164, 2-16=-970/155, 7-8=-867/129

BOT CHORD 15-16=-95/165, 14-15=-21/52, 3-14=-243/140, 13-14=-178/1100, 12-13=-83/1175, 11-12=-67/1058, 10-12=0/74, 9-10=-16/117, 8-9=-16/137

WEBS 4-14=-187/819, 4-13=-462/229, 5-13=-79/675, 6-13=-498/215, 9-11=0/160, 6-11=0/181, 2-14=-218/1360, 7-11=-67/1031

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be SPF No.2 .
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at joint 16 and 103 lb uplift at joint 8.

LOAD CASE(S) Standard

July 2,2024

Job	Truss	Truss Type	Qty	Ply	Lot 10 CB	
B240144	B6	Hip	1	1	Job Reference (optional)	I66588893

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Mon Jul 01 08:12:25 Page: 1
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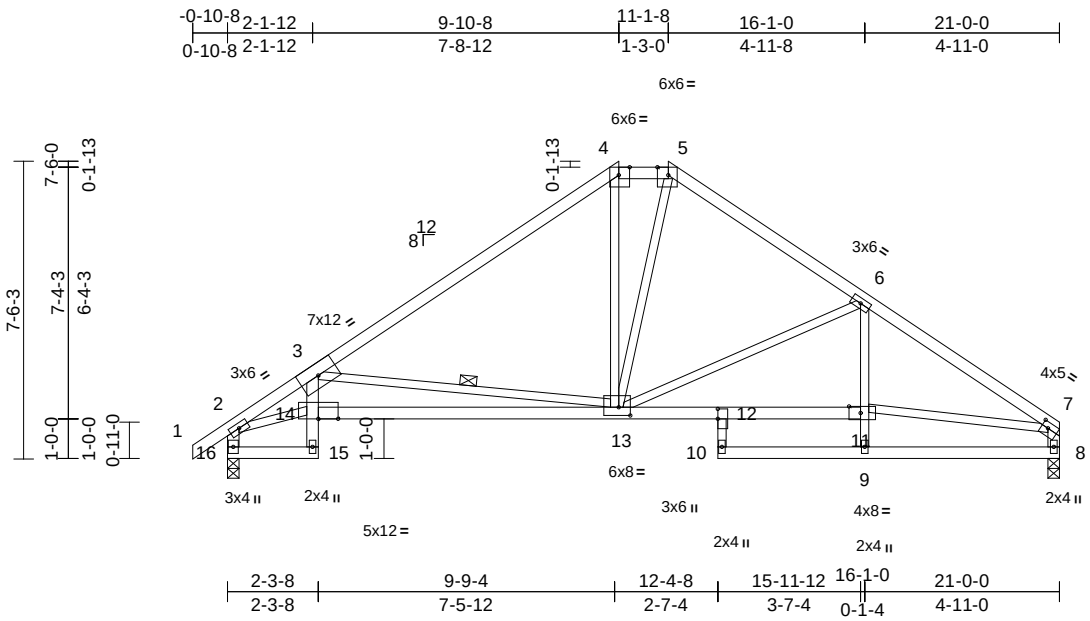

Scale = 1:58.2

Plate Offsets (X, Y): [4:0-3-5,Edge], [5:0-3-5,Edge], [7:Edge,0-1-12], [11:0-3-8,0-2-0], [12:0-3-0,Edge], [13:0-3-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.12	13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.26	13-14	>957	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.12	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.07	13-14	>999	240	Weight: 91 lb	FT = 10%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except* 12-10:2x3 SPF No.2
WEBS 2x3 SPF No.2 *Except* 16-2,8-7:2x4 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-10-11 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
8-1-12 oc bracing: 13-14.
WEBS 1 Row at midpt 3-13

REACTIONS (size) 8=0-3-8, 16=0-3-8
Max Horiz 16=206 (LC 5)
Max Uplift 8=-102 (LC 9), 16=-125 (LC 8)
Max Grav 8=930 (LC 1), 16=1005 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/40, 2-3=-1919/314, 3-4=-1152/132, 4-5=-831/179, 5-6=-1009/161, 6-7=-1508/153, 2-16=-954/139, 7-8=-874/129
BOT CHORD 15-16=-93/174, 14-15=-26/38, 3-14=0/317, 13-14=-513/2009, 12-13=-68/1197, 11-12=-49/1066, 10-12=0/67, 9-10=-19/131, 8-9=-20/156
WEBS 3-13=-1228/499, 4-13=-22/286, 5-13=-129/428, 6-13=-504/195, 9-11=0/174, 6-11=0/217, 2-14=-280/1470, 7-11=-48/1031

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SPF No.2 .
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 16 and 102 lb uplift at joint 8.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

July 2,2024

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/20/2024 3:59:03

Job	Truss	Truss Type	Qty	Ply	Lot 10 CB	
B240144	B7	Hip	1	1	Job Reference (optional)	I66588894

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Mon Jul 01 08:12:25 Page: 1
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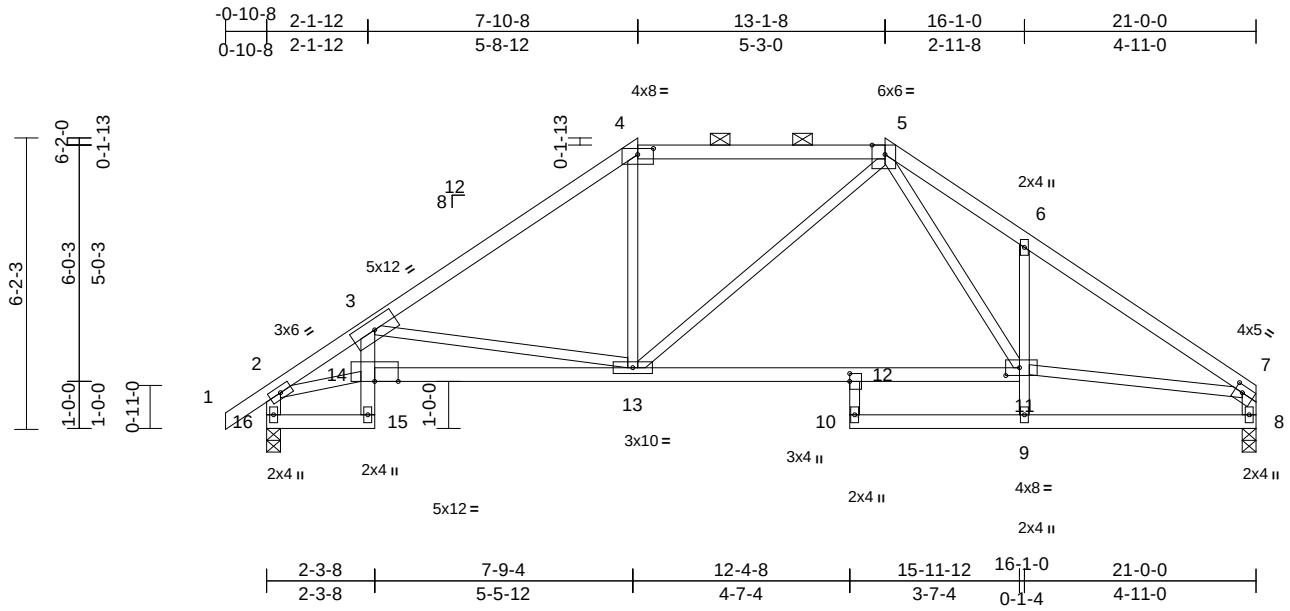

Scale = 1:48.9

Plate Offsets (X, Y): [4:0-4-0,0-1-9], [5:0-3-5,Edge], [7:Edge,0-1-12], [11:0-3-8,0-2-0], [12:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.12	12-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.26	12-13	>958	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.10	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.05	13-14	>999	240	Weight: 87 lb	FT = 10%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except* 12-10:2x3 SPF No.2
WEBS 2x3 SPF No.2 *Except* 16-2,8-7:2x4 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-2-9 oc purlins, except end verticals, and 2-0-0 oc purlins (5-2-5 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 9-9-0 oc bracing.

REACTIONS (size) 8=0-3-8, 16=0-3-8
Max Horiz 16=171 (LC 5)
Max Uplift 8=-89 (LC 9), 16=-112 (LC 8)
Max Grav 8=930 (LC 1), 16=1005 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/40, 2-3=-1856/243, 3-4=-1303/114, 4-5=-990/150, 5-6=-1506/232, 6-7=-1537/95, 2-16=-961/130, 7-8=-894/109
BOT CHORD 15-16=-78/161, 14-15=-17/34, 3-14=-5/242, 13-14=-359/1725, 12-13=-32/930, 11-12=-25/852, 10-12=0/23, 9-10=-44/78, 8-9=-47/109
WEBS 3-13=-825/348, 4-13=0/335, 5-13=-67/179, 2-14=-207/1389, 7-11=0/1097, 9-11=0/250, 6-11=-302/211, 5-11=-138/573

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SPF No.2 .
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 16 and 89 lb uplift at joint 8.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

July 2,2024

Job	Truss	Truss Type	Qty	Ply	Lot 10 CB
B240144	B8	Hip	1	1	I66588895
					Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Mon Jul 01 08:12:25 Page: 1
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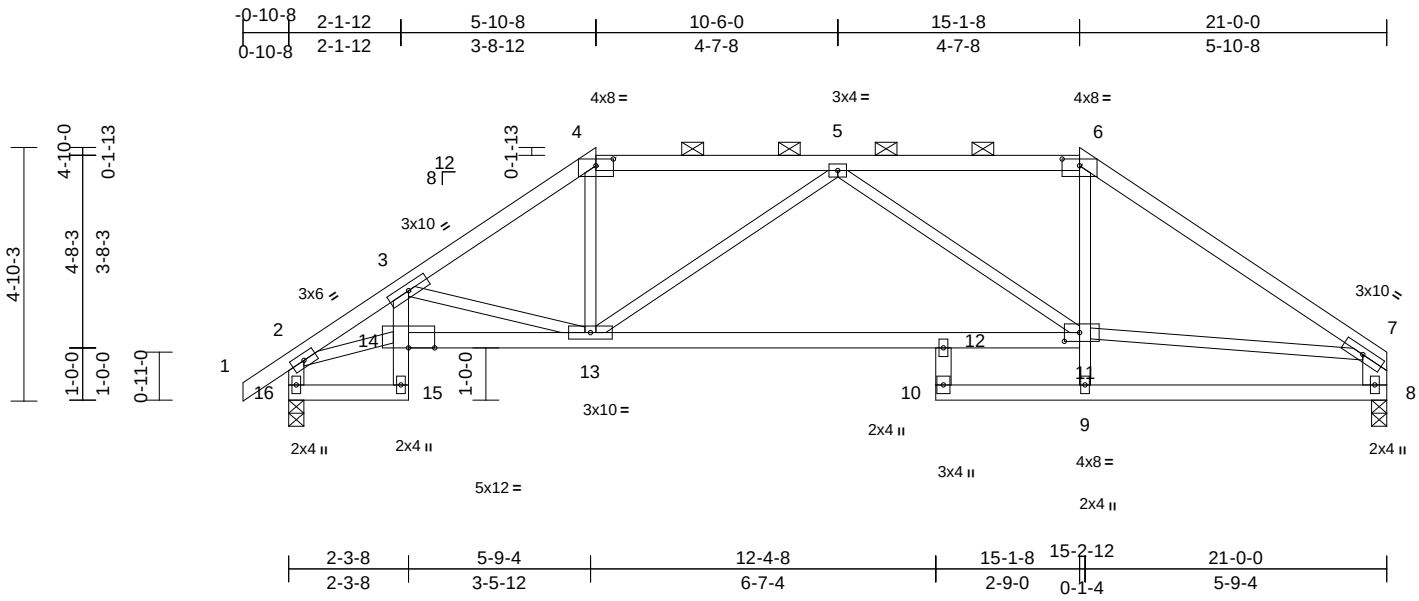

Scale = 1:44.1

Plate Offsets (X, Y): [4:0-4-0,0-1-9], [6:0-4-0,0-1-9], [11:0-3-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.15	12-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.34	12-13	>724	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.11	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.06	12-13	>999	240	Weight: 83 lb	FT = 10%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except* 16-2:2x4 SPF No.2, 8-7:2x6 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-9-5 oc purlins, except end verticals, and 2-0-0 oc purlins (5-2-9 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 8=0-3-8, 16=0-3-8
Max Horiz 16=137 (LC 5)
Max Uplift 8=-70 (LC 9), 16=-94 (LC 8)
Max Grav 8=926 (LC 1), 16=1001 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/40, 2-3=-1805/181, 3-4=-1461/134, 4-5=-1158/130, 5-6=-1146/81, 6-7=-1475/61, 2-16=-963/114, 7-8=-899/95
BOT CHORD 15-16=-65/145, 14-15=-9/32, 3-14=-30/187, 13-14=-296/1575, 12-13=-211/1410, 11-12=-173/1365, 10-12=-61/0, 9-10=-102/45, 8-9=-96/91
WEBS 3-13=-465/215, 4-13=0/487, 9-11=0/328, 6-11=-11/451, 2-14=-182/1329, 7-11=-23/1053, 5-13=-386/179, 5-11=-405/211

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SPF No.2 .
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 16 and 70 lb uplift at joint 8.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

July 2,2024

Job	Truss	Truss Type	Qty	Ply	Lot 10 CB
B240144	B9	Hip	1	1	I66588896
					Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Mon Jul 01 08:12:25 Page: 1
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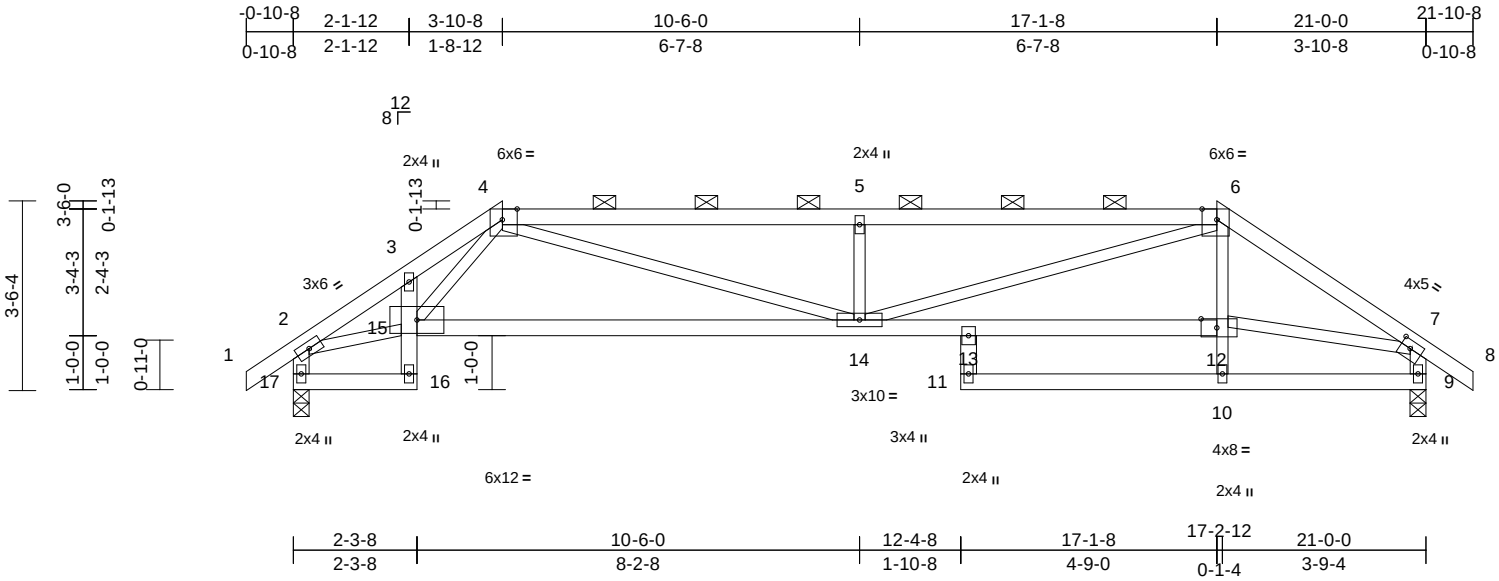

Scale = 1:42.7

Plate Offsets (X, Y): [4:0-3-5,Edge], [6:0-3-4,Edge], [7:0-2-4,0-1-12], [12:0-3-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.17	14-15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.38	14-15	>651	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.11	9	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.12	14-15	>999	240	Weight: 83 lb	FT = 10%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except* 17-2,9-7:2x4 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-7 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 9=0-3-8, 17=0-3-8
Max Horiz 17=108 (LC 7)
Max Uplift 9=-99 (LC 4), 17=-99 (LC 5)
Max Grav 9=1003 (LC 1), 17=1003 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/40, 2-3=-1809/244, 3-4=-1842/259, 4-5=-2503/391, 5-6=-2503/391, 6-7=-1634/203, 7-8=0/40, 2-17=-979/122, 7-9=-959/116
BOT CHORD 16-17=-60/98, 15-16=0/43, 3-15=-112/108, 14-15=-267/1360, 13-14=-157/1316, 12-13=-176/1186, 11-13=0/92, 10-11=-2/130, 9-10=-4/152
WEBS 4-15=-9/441, 4-14=-235/1247, 5-14=-565/228, 6-14=-259/1283, 10-12=0/173, 6-12=0/233, 2-15=-192/1354, 7-12=-183/1161

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SPF No.2 .
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 17 and 99 lb uplift at joint 9.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

July 2,2024

Job	Truss	Truss Type	Qty	Ply	Lot 10 CB
B240144	B10	Hip Girder	1	1	I66588897
					Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Mon Jul 01 08:12:26 Page: 1
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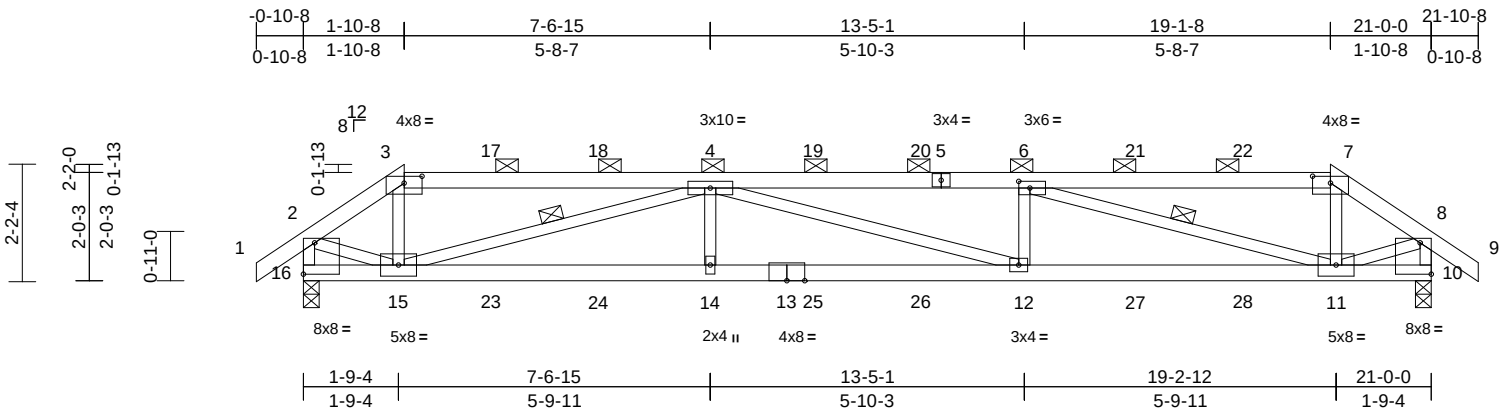

Scale = 1:42.9

Plate Offsets (X, Y): [3:0-4-0,0-1-9], [6:0-2-8,0-1-8], [7:0-4-0,0-1-9], [10:Edge,0-7-0], [16:Edge,0-7-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.20	12-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.38	12-14	>649	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.22	12-14	>999	240	Weight: 74 lb	FT = 10%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-6-3 oc purlins, except end verticals, and 2-0-0 oc purlins (3-2-7 max.): 3-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-15, 6-11

REACTIONS (size) 10=0-3-8, 16=0-3-8
Max Horiz 16=72 (LC 7)
Max Uplift 10=-261 (LC 4), 16=-263 (LC 5)
Max Grav 10=993 (LC 1), 16=994 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/38, 2-3=-1067/322, 3-4=-877/287, 4-6=-2659/834, 6-7=-877/284, 7-8=-1068/320, 8-9=0/38, 2-16=-1013/268, 8-10=-1012/265
BOT CHORD 15-16=-58/63, 14-15=-838/2658, 12-14=-838/2658, 11-12=-827/2659, 10-11=-7/10
WEBS 3-15=-44/317, 4-15=-1868/583, 4-14=0/230, 4-12=-22/15, 6-12=0/230, 6-11=-1869/590, 7-11=-47/318, 2-15=-302/966, 8-11=-285/962

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) All bearings are assumed to be SPF No.2 .
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 263 lb uplift at joint 16 and 261 lb uplift at joint 10.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 117 lb down and 87 lb up at 1-10-8, 65 lb down and 41 lb up at 3-6-0, 65 lb down and 41 lb up at 5-6-0, 65 lb down and 41 lb up at 7-6-0, 65 lb down and 41 lb up at 9-6-0, 65 lb down and 41 lb up at 11-6-0, 65 lb down and 41 lb up at 13-6-0, 65 lb down and 41 lb up at 15-6-0, and 65 lb down and 41 lb up at 17-6-0, and 57 lb down and 43 lb up at 19-1-8 on top chord, and 18 lb down and 13 lb up at 1-10-8, 11 lb down and 13 lb up at 3-6-0, 11 lb down and 13 lb up at 5-6-0, 11 lb down and 13 lb up at 7-6-0, 11 lb down and 13 lb up at 9-6-0, 11 lb down and 13 lb up at 11-6-0, 11 lb down and 13 lb up at 13-6-0, 11 lb down and 13 lb up at 15-6-0, and 11 lb down and 13 lb up at 17-6-0, and 18 lb down and 13 lb up at 19-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-70, 2-3=-70, 3-7=-70, 7-8=-70, 8-9=-70, 10-16=-20
Concentrated Loads (lb)
Vert: 15=4 (B), 14=2 (B), 12=2 (B), 11=4 (B), 23=2 (B), 24=2 (B), 25=2 (B), 26=2 (B), 27=2 (B), 28=2 (B)

July 2,2024

Job	Truss	Truss Type	Qty	Ply	Lot 10 CB	
B240144	C1	Common Supported Gable	1	1	Job Reference (optional)	I66588898

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Mon Jul 01 08:12:26 Page: 1
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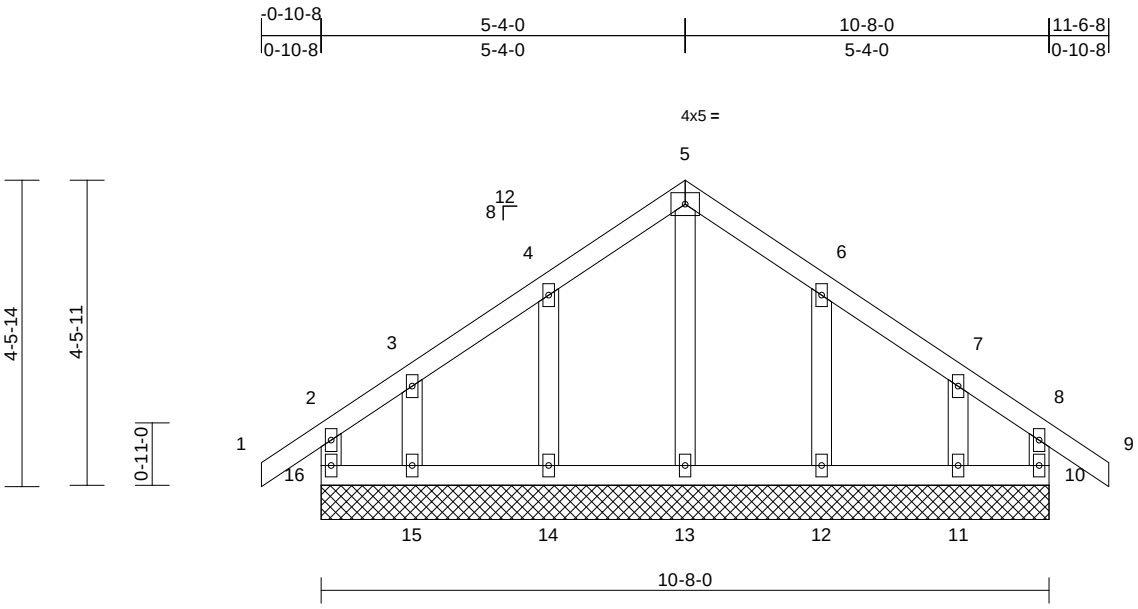

Scale = 1:33.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 44 lb	FT = 10%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
OTHERS 2x4 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 10=10-8-0, 11=10-8-0, 12=10-8-0, 13=10-8-0, 14=10-8-0, 15=10-8-0, 16=10-8-0
Max Horiz 16=-135 (LC 6)
Max Uplift 10=-40 (LC 5), 11=-82 (LC 9), 12=-73 (LC 9), 14=-72 (LC 8), 15=-86 (LC 8), 16=-58 (LC 4)
Max Grav 10=133 (LC 22), 11=161 (LC 16), 12=202 (LC 16), 13=176 (LC 1), 14=202 (LC 15), 15=170 (LC 15), 16=142 (LC 16)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-16=-121/46, 1-2=0/40, 2-3=-75/77, 3-4=-53/82, 4-5=-45/114, 5-6=-37/108, 6-7=-39/77, 7-8=-54/59, 8-9=0/40, 8-10=-121/32
BOT CHORD 15-16=-64/66, 14-15=-64/66, 13-14=-64/66, 12-13=-64/66, 11-12=-64/66, 10-11=-64/66
WEBS 5-13=-137/0, 4-14=-162/99, 3-15=-120/90, 6-12=-163/100, 7-11=-116/88

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
10) All bearings are assumed to be SPF No.2 .
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 16, 40 lb uplift at joint 10, 72 lb uplift at joint 14, 86 lb uplift at joint 15, 73 lb uplift at joint 12 and 82 lb uplift at joint 11.

LOAD CASE(S) Standard

July 2,2024

Job	Truss	Truss Type	Qty	Ply	Lot 10 CB	
B240144	G1	Flat Girder	1	1	Job Reference (optional)	I66588899

Wheeler Lumber, Waverly, KS - 66871,

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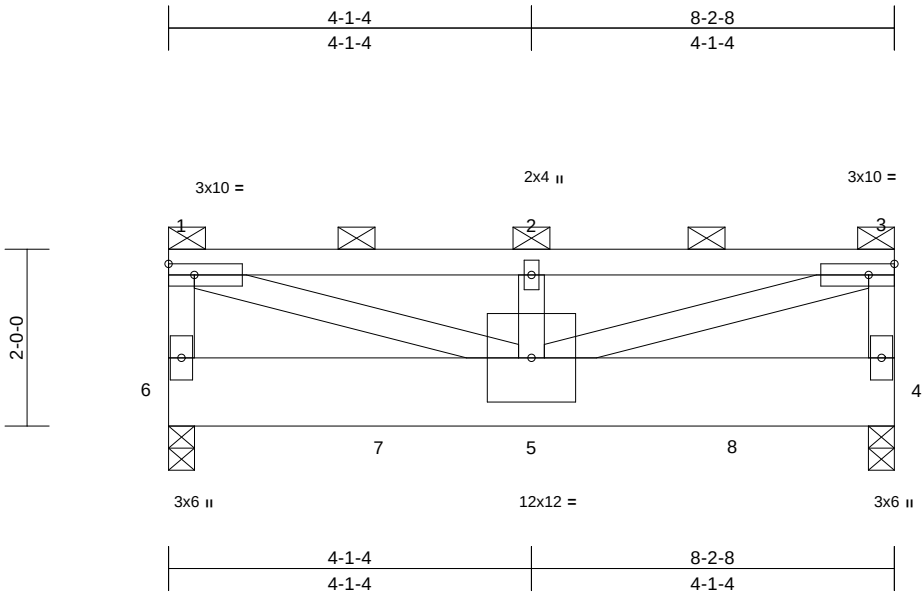

Scale = 1:26.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.05	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.09	5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P		Wind(LL)	0.03	5	>999	240	Weight: 53 lb	FT = 10%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x10 SP 2400F 2.0E
WEBS 2x4 SPF No.2

BRACING
TOP CHORD 2-0-0 oc purlins (3-8-3 max.): 1-3, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 4=0-3-8, 6=0-3-8
Max Horiz 6=56 (LC 5)
Max Uplift 4=-250 (LC 5), 6=-345 (LC 4)
Max Grav 4=1809 (LC 15), 6=2556 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-6=-917/159, 1-2=-2225/294, 2-3=-2225/294, 3-4=-917/159
BOT CHORD 5-6=-49/44, 4-5=-21/16
WEBS 1-5=-327/2379, 2-5=-311/157, 3-5=-327/2379

NOTES
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) All bearings are assumed to be SP 2400F 2.0E .
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 345 lb uplift at joint 6 and 250 lb uplift at joint 4.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 912 lb down and 111 lb up at 0-1-12, 1010 lb down and 114 lb up at 2-4-8, and 1010 lb down and 114 lb up at 4-4-8, and 1010 lb down and 114 lb up at 6-4-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-70, 4-6=-20
Concentrated Loads (lb)
Vert: 6=-912 (F), 5=-899 (F), 7=-899 (F), 8=-899 (F)

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

July 2,2024

Job	Truss	Truss Type	Qty	Ply	Lot 10 CB	
B240144	J1	Diagonal Hip Girder	2	1	Job Reference (optional)	I66588900

Wheeler Lumber, Waverly, KS - 66871,

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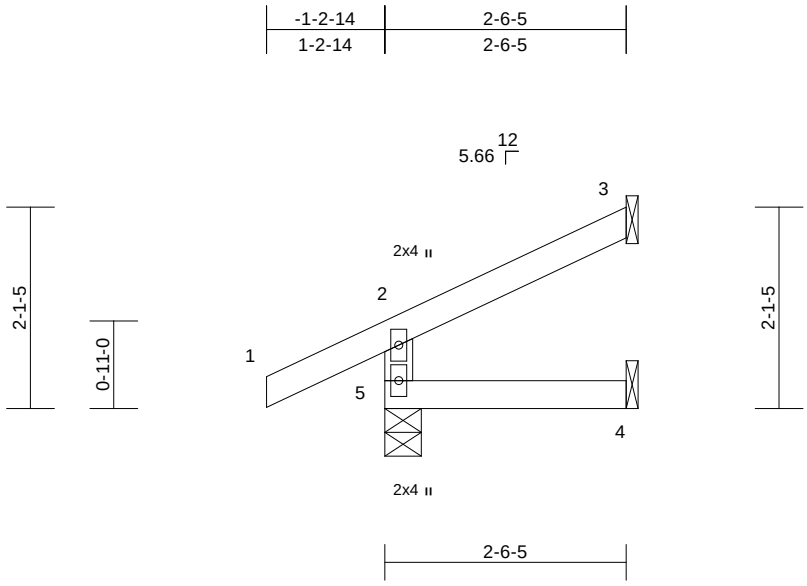

Scale = 1:24.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 8 lb	FT = 10%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-6-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-4-9
Max Horiz 5=58 (LC 8)
Max Uplift 3=-40 (LC 8), 5=-35 (LC 8)
Max Grav 3=57 (LC 1), 4=42 (LC 3), 5=230 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-202/59, 1-2=0/41, 2-3=-47/18
BOT CHORD 4-5=0/0

NOTES
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
4) All bearings are assumed to be SPF No.2 .
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 5 and 40 lb uplift at joint 3.

LOAD CASE(S) Standard

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

July 2,2024

Job	Truss	Truss Type	Qty	Ply	Lot 10 CB	
B240144	J2	Jack-Open	10	1	Job Reference (optional)	I66588901

Wheeler Lumber, Waverly, KS - 66871,

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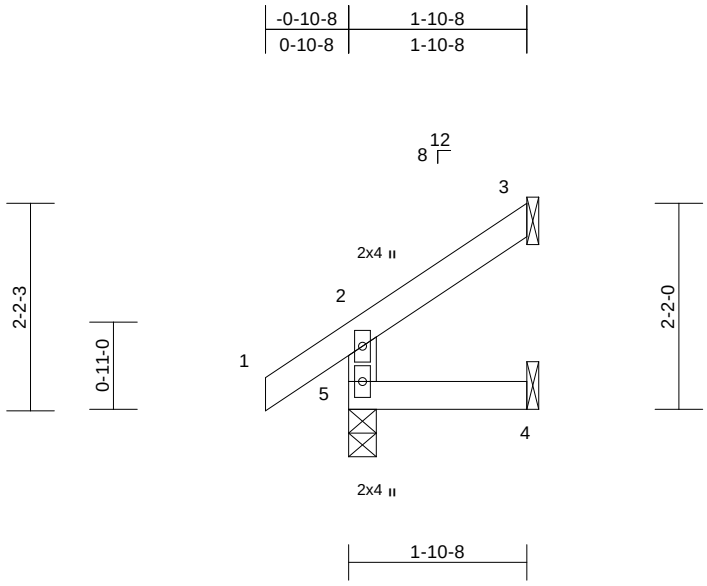

Scale = 1:24.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 7 lb	FT = 10%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-3-8
Max Horiz 5=61 (LC 8)
Max Uplift 3=-41 (LC 8), 4=-4 (LC 8), 5=-7 (LC 8)
Max Grav 3=50 (LC 15), 4=31 (LC 3), 5=170 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-149/32, 1-2=0/40, 2-3=-49/22
BOT CHORD 4-5=0/0

NOTES
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
4) All bearings are assumed to be SPF No.2 .
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 5, 4 lb uplift at joint 4 and 41 lb uplift at joint 3.

LOAD CASE(S) Standard

July 2,2024

Job	Truss	Truss Type	Qty	Ply	Lot 10 CB	I66588902
B240144	LAY1	Lay-In Gable	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

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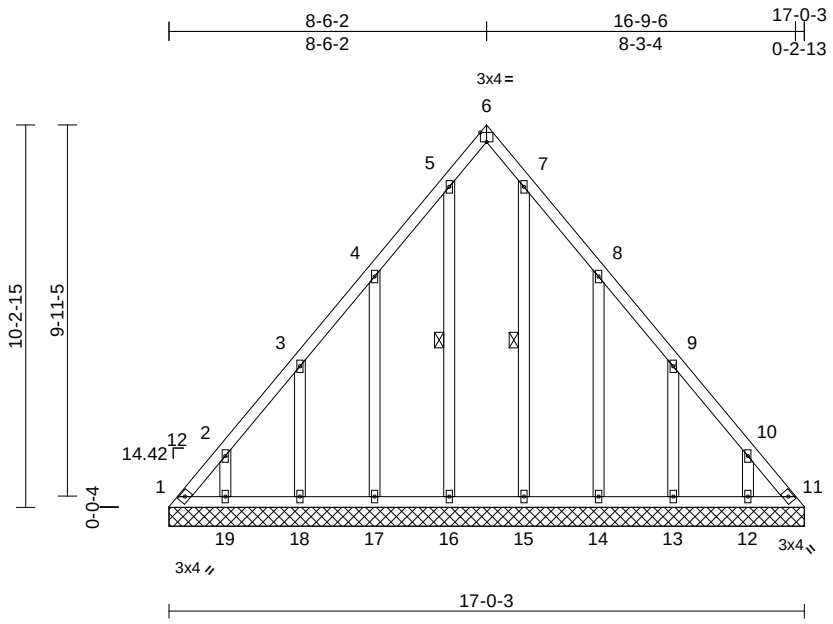

Scale = 1:61.7

Plate Offsets (X, Y): [6:Edge,0-3-1]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.01	11	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 93 lb	FT = 10%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x4 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-16, 7-15

REACTIONS (size) 1=17-0-3, 11=17-0-3, 12=17-0-3, 13=17-0-3, 14=17-0-3, 15=17-0-3, 16=17-0-3, 17=17-0-3, 18=17-0-3, 19=17-0-3
Max Horiz 1=-272 (LC 4)
Max Uplift 1=-158 (LC 6), 11=-140 (LC 7), 12=-137 (LC 9), 13=-150 (LC 9), 14=-177 (LC 9), 15=-33 (LC 9), 16=-48 (LC 8), 17=-174 (LC 8), 18=-150 (LC 8), 19=-137 (LC 8)
Max Grav 1=377 (LC 8), 11=366 (LC 9), 12=193 (LC 16), 13=218 (LC 16), 14=224 (LC 16), 15=167 (LC 16), 16=184 (LC 15), 17=220 (LC 15), 18=218 (LC 15), 19=193 (LC 15)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-499/245, 2-3=-370/195, 3-4=-217/132, 4-5=-119/69, 5-6=-67/53, 6-7=-66/47, 7-8=-99/43, 8-9=-202/109, 9-10=-355/171, 10-11=-484/221
BOT CHORD 1-19=-142/328, 18-19=-142/328, 17-18=-142/328, 16-17=-142/328, 15-16=-142/328, 14-15=-142/328, 13-14=-142/328, 12-13=-142/328, 11-12=-142/328
WEBS 2-19=-154/153, 3-18=-178/176, 4-17=-180/197, 5-16=-144/72, 7-15=-127/57, 8-14=-184/201, 9-13=-177/175, 10-12=-154/153

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 0-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) All bearings are assumed to be SPF No.2 .
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 158 lb uplift at joint 1, 140 lb uplift at joint 11, 137 lb uplift at joint 19, 150 lb uplift at joint 18, 174 lb uplift at joint 17, 48 lb uplift at joint 16, 33 lb uplift at joint 15, 177 lb uplift at joint 14, 150 lb uplift at joint 13 and 137 lb uplift at joint 12.

LOAD CASE(S) Standard

July 2,2024

Job	Truss	Truss Type	Qty	Ply	Lot 10 CB	
B240144	V1	Valley	1	1	Job Reference (optional)	I66588903

Wheeler Lumber, Waverly, KS - 66871,

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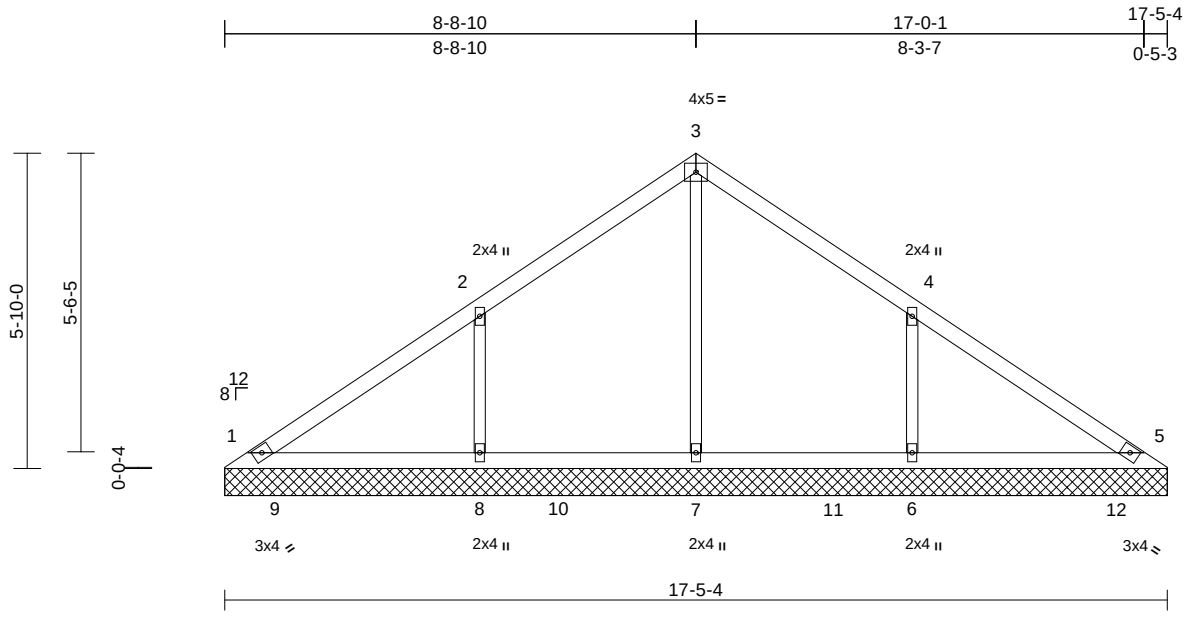

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 51 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=17-5-4, 5=17-5-4, 6=17-5-4, 7=17-5-4, 8=17-5-4
Max Horiz 1=-144 (LC 4)
Max Uplift 1=-15 (LC 9), 6=-178 (LC 9), 8=-178 (LC 8)
Max Grav 1=194 (LC 16), 5=178 (LC 1), 6=543 (LC 16), 7=349 (LC 15), 8=543 (LC 15)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-151/110, 2-3=-149/130, 3-4=-140/109, 4-5=-118/74
BOT CHORD 1-8=-43/98, 7-8=-43/98, 6-7=-43/98, 5-6=-43/98
WEBS 3-7=-179/0, 2-8=-359/225, 4-6=-359/225

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) All bearings are assumed to be SPF No.2 .
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 1, 178 lb uplift at joint 8 and 178 lb uplift at joint 6.

LOAD CASE(S) Standard

July 2,2024

Job	Truss	Truss Type	Qty	Ply	Lot 10 CB	
B240144	V2	Valley	1	1	Job Reference (optional)	I66588904

Wheeler Lumber, Waverly, KS - 66871,

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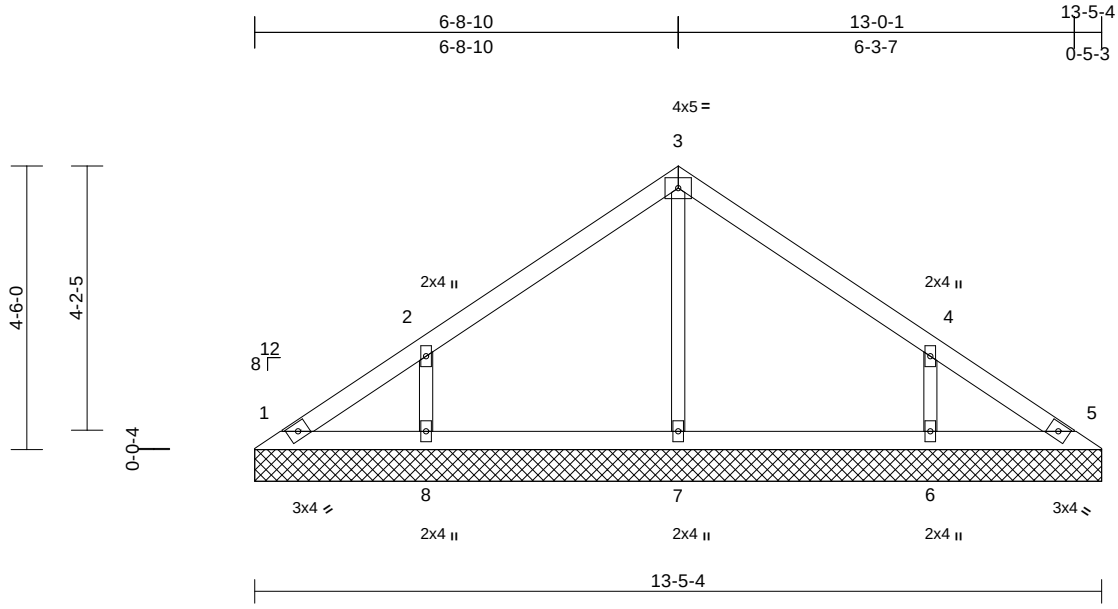

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 38 lb	FT = 10%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x3 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=13-5-4, 5=13-5-4, 6=13-5-4, 7=13-5-4, 8=13-5-4
Max Horiz 1=109 (LC 5)
Max Uplift 1=-19 (LC 4), 6=-141 (LC 9), 8=-141 (LC 8)
Max Grav 1=102 (LC 16), 5=86 (LC 15), 6=354 (LC 16), 7=284 (LC 1), 8=354 (LC 15)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-117/83, 2-3=-144/100, 3-4=-140/77, 4-5=-91/46
BOT CHORD 1-8=-27/74, 7-8=-27/74, 6-7=-27/74, 5-6=-27/74
WEBS 3-7=-200/18, 2-8=-285/182, 4-6=-284/182

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) All bearings are assumed to be SPF No.2 .
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 1, 141 lb uplift at joint 8 and 141 lb uplift at joint 6.

LOAD CASE(S) Standard

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER
PE-2001018807
PROFESSIONAL ENGINEER

July 2,2024

Job	Truss	Truss Type	Qty	Ply	Lot 10 CB	
B240144	V3	Valley	1	1	Job Reference (optional)	I66588905

Wheeler Lumber, Waverly, KS - 66871,

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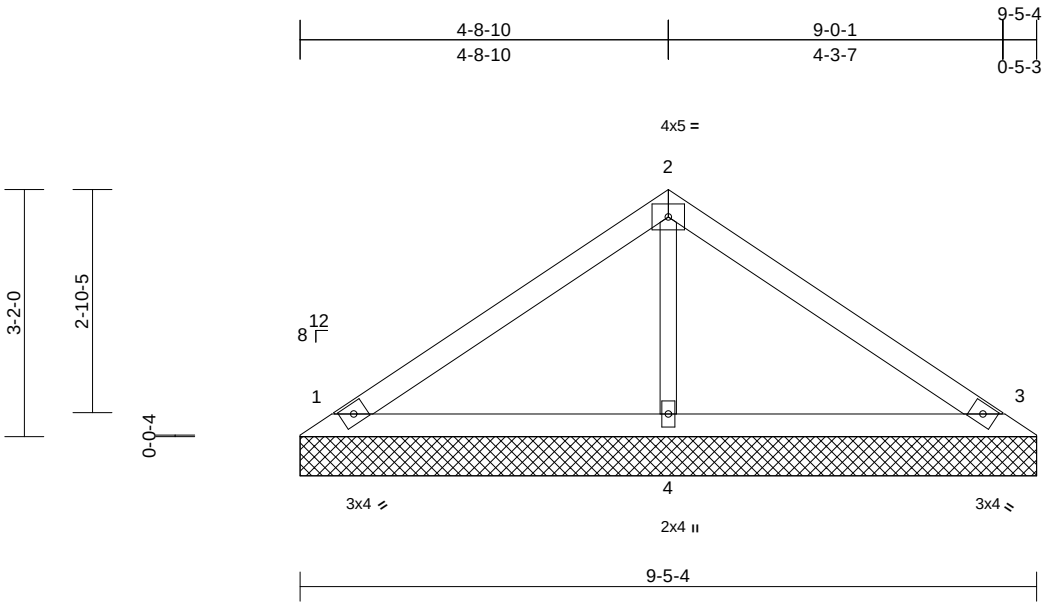

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 25 lb	FT = 10%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x3 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=9-5-4, 3=9-5-4, 4=9-5-4
Max Horiz 1=-74 (LC 6)
Max Uplift 1=-37 (LC 8), 3=-47 (LC 9), 4=-14 (LC 8)
Max Grav 1=197 (LC 1), 3=197 (LC 1), 4=373 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-147/70, 2-3=-147/53
BOT CHORD 1-4=-14/68, 3-4=-14/68
WEBS 2-4=-243/62

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) All bearings are assumed to be SPF No.2 .
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 1, 47 lb uplift at joint 3 and 14 lb uplift at joint 4.

LOAD CASE(S) Standard

STATE OF MISSOURI
SCOTT M. SEVIER
NUMBER PE-2001018807
PROFESSIONAL ENGINEER

July 2,2024

Job	Truss	Truss Type	Qty	Ply	Lot 10 CB	
B240144	V4	Valley	1	1	Job Reference (optional)	I66588906

Wheeler Lumber, Waverly, KS - 66871,

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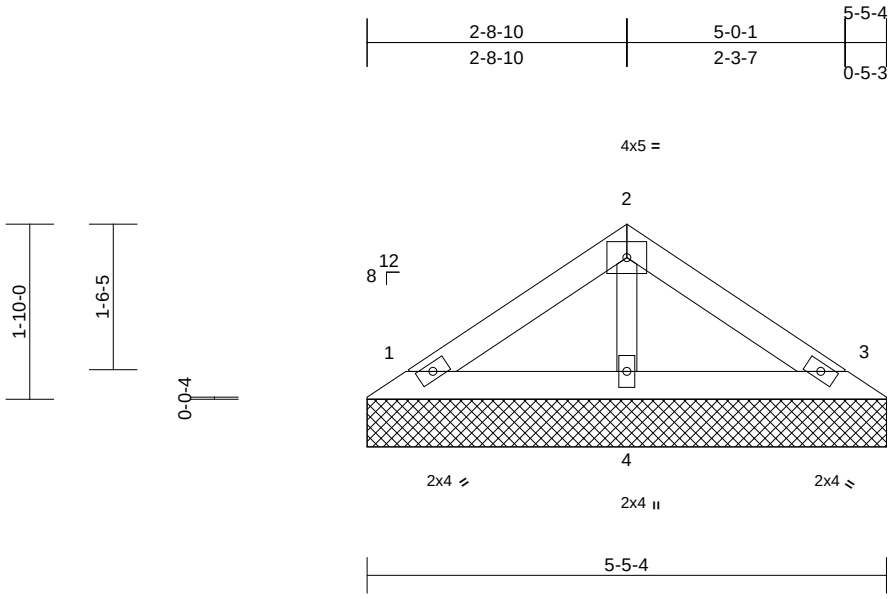

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 13 lb	FT = 10%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x3 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=5-5-4, 3=5-5-4, 4=5-5-4
Max Horiz 1=-39 (LC 4)
Max Uplift 1=-25 (LC 8), 3=-30 (LC 9)
Max Grav 1=115 (LC 1), 3=115 (LC 1), 4=179 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-71/36, 2-3=-69/27
BOT CHORD 1-4=-8/33, 3-4=-8/33
WEBS 2-4=-122/31

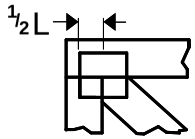
NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) All bearings are assumed to be SPF No.2 .
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 1 and 30 lb uplift at joint 3.

LOAD CASE(S) Standard

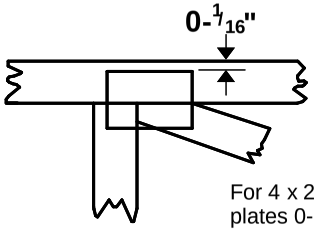
July 2,2024

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

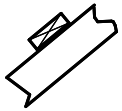
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

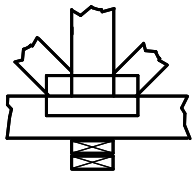
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

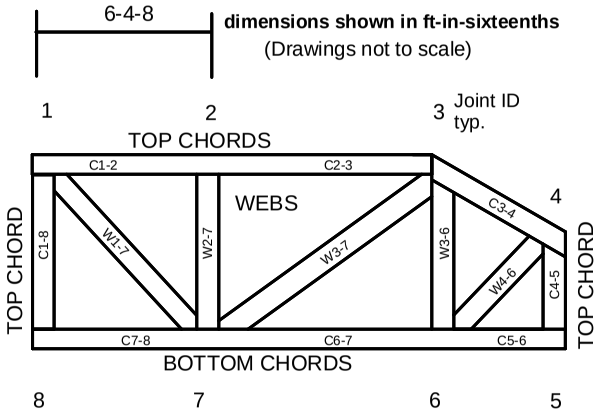


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

MiTek®

MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.