

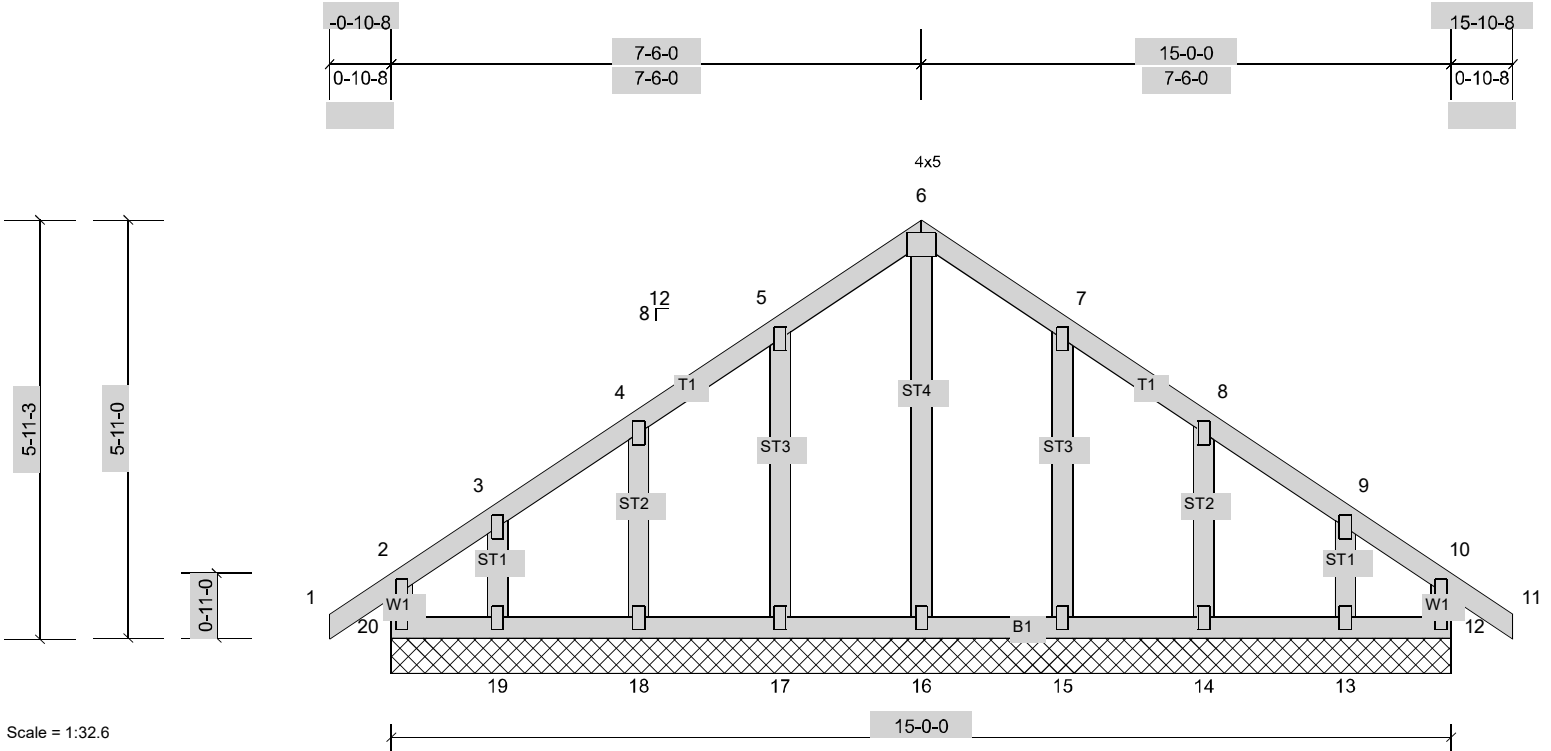
Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	A1	Common Supported Gable	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck

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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	0.07	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	12	n/a	n/a	Weight: 66 lb
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							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

REACTIONS

All bearings 15-0-0.
(lb) - Max Horiz 20=172 (LC 7)
Max Uplift All uplift 100 (lb) or less at joint(s) 12, 13, 14, 15, 17, 18, 20 except 19=106 (LC 8)
Max Grav All reactions 250 (lb) or less at joint(s) 12, 13, 14, 15, 16, 17, 18, 19, 20

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 12, 17, 18, 15, 14, 13 except (jt=lb) 19=105.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S)

Standard

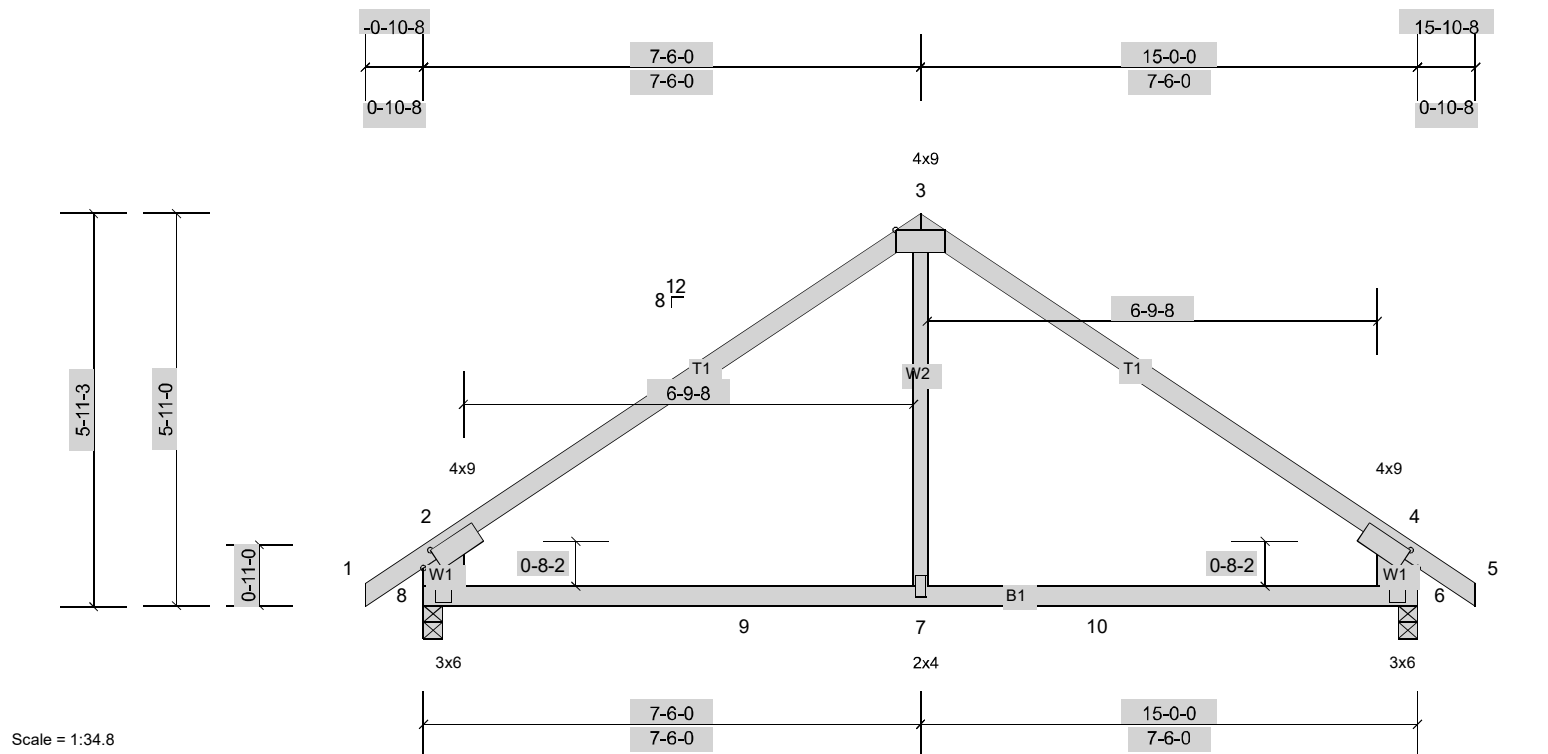
BRACING

TOP CHORD
BOT CHORD

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

Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.



Scale = 1:34.8

Plate Offsets (X, Y): [2:0-2-13,0-2-0], [4:0-2-13,0-2-0]

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	0.66	Vert(LL)	-0.09	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.14	7-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	-0.06	7-8	>999	240	Weight: 49 lb	FT = 10%

LUMBER

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x8 SP DSS *Except* W2:2x3 SPF No.2

REACTIONS (lb/size) 6=730/0-3-8, (min. 0-1-8), 8=730/0-3-8, (min. 0-1-8)

Max Horiz 8=176 (LC 7)
Max Uplift 6=-99 (LC 9), 8=-99 (LC 8)
Max Grav 6=804 (LC 16), 8=804 (LC 15)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-792/123, 3-4=-792/123, 2-8=-691/159, 4-6=-691/159
BOT CHORD 8-9=0/586, 7-9=0/586, 7-10=0/586, 6-10=0/586
WEBS 3-7=0/397

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 8 and 99 lb uplift at joint 6.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-9-11 oc purlins, except end verticals.
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BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	A3	Roof Special	3	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck

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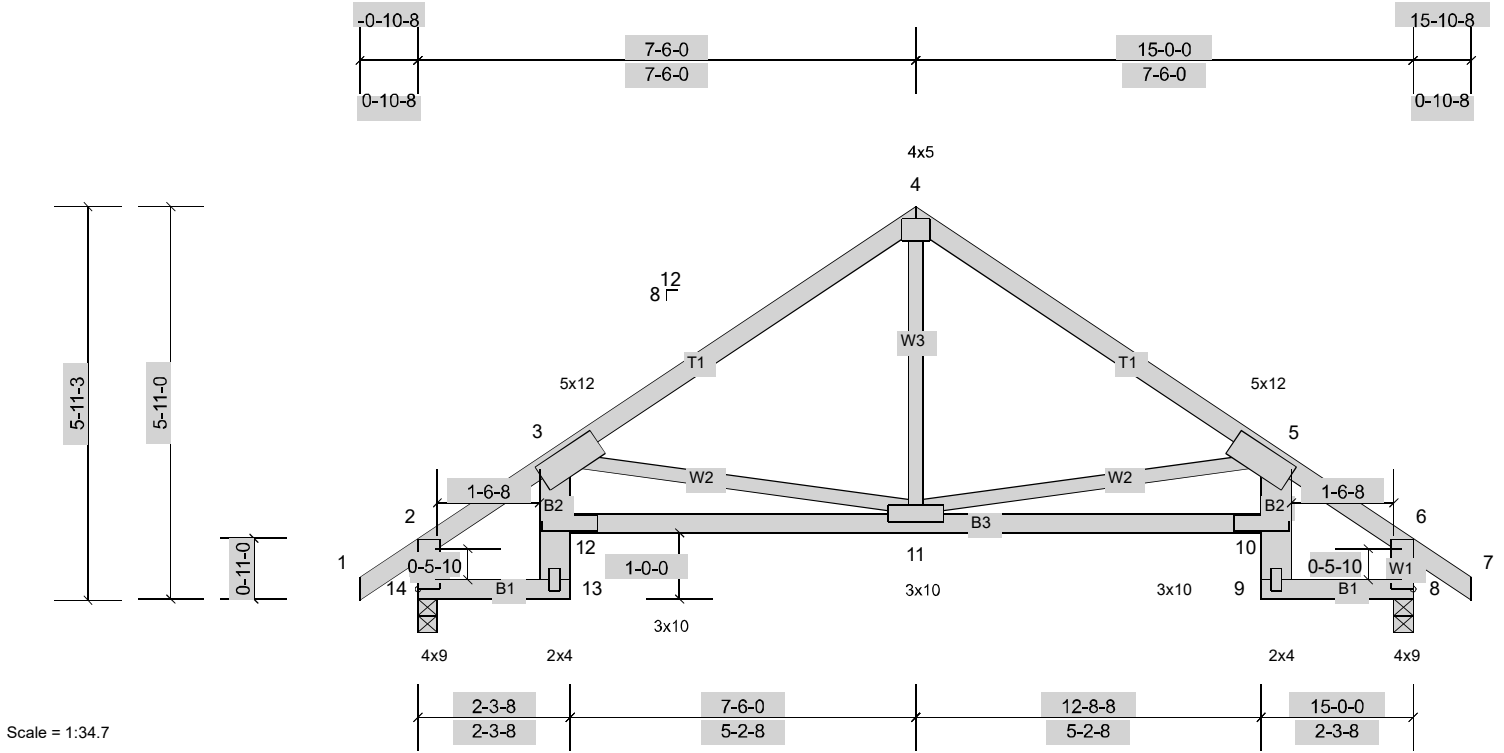


Plate Offsets (X, Y): [8:Edge,0-3-8]

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	0.43	Vert(LL)	-0.05	11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.11	11-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.10	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	11-12	>999	240	Weight: 60 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except* B2:2x6 SPF No.2
 WEBS 2x3 SPF No.2 *Except* W1:2x4 SPF No.2

REACTIONS (lb/size) 8=733/0-3-8, (min. 0-1-8), 14=733/0-3-8, (min. 0-1-8)
 Max Horiz 14=-172 (LC 6)
 Max Uplift 8=-97 (LC 9), 14=-97 (LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-679/91, 3-4=-786/100, 4-5=-786/121, 5-6=-679/90, 2-14=-634/104, 6-8=-634/99
 BOT CHORD 13-14=-101/504, 11-12=-302/1342, 10-11=-159/1236, 8-9=-28/442
 WEBS 4-11=0/404, 5-11=-699/268, 3-11=-788/319

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 97 lb uplift at joint 14 and 97 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

Job 210572	Truss A4	Truss Type Roof Special	Qty 1	Ply 1	Lot 36 OS Job Reference (optional)
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Wheeler Lumber, Waverly, KS 66871, chuck

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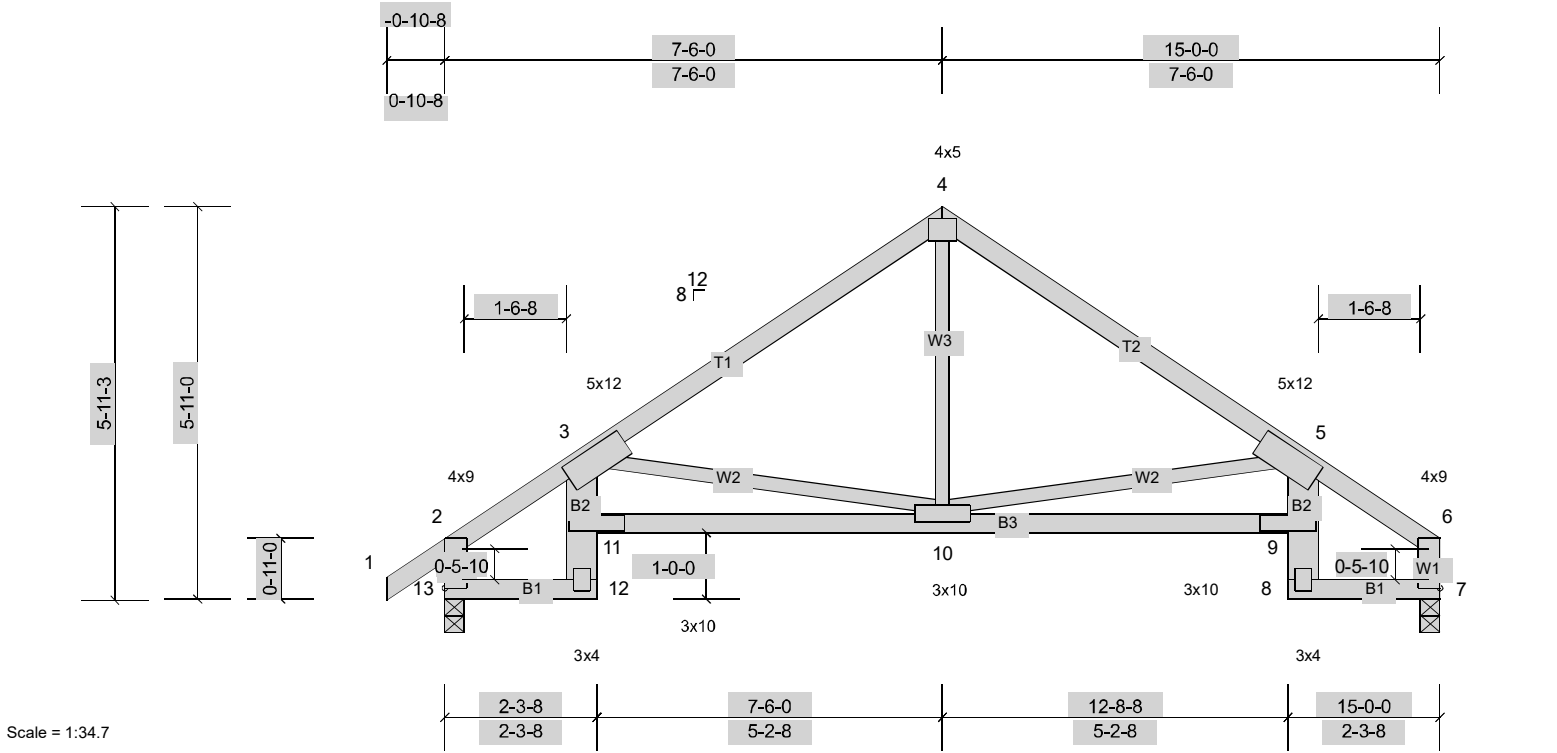


Plate Offsets (X, Y): [6:Edge,0-3-8]

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	0.43	Vert(LL)	-0.06	9-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.12	9-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.10	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	10-11	>999	240	Weight: 59 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except* B2:2x6 SPF No.2
WEBS 2x3 SPF No.2 *Except* W1:2x4 SPF No.2

REACTIONS (lb/size) 7=659/0-3-8, (min. 0-1-8), 13=736/0-3-8, (min. 0-1-8)
Max Horiz 13=166 (LC 5)
Max Uplift 7=-73 (LC 9), 13=-97 (LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-682/91, 3-4=-791/107, 4-5=-791/124, 5-6=-674/88, 2-13=-636/105, 6-7=-537/72
BOT CHORD 12-13=-113/496, 10-11=-324/1329, 9-10=-208/1267, 7-8=-52/452
WEBS 4-10=-2/406, 5-10=-725/287, 3-10=-782/327

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 97 lb uplift at joint 13 and 73 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-11-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

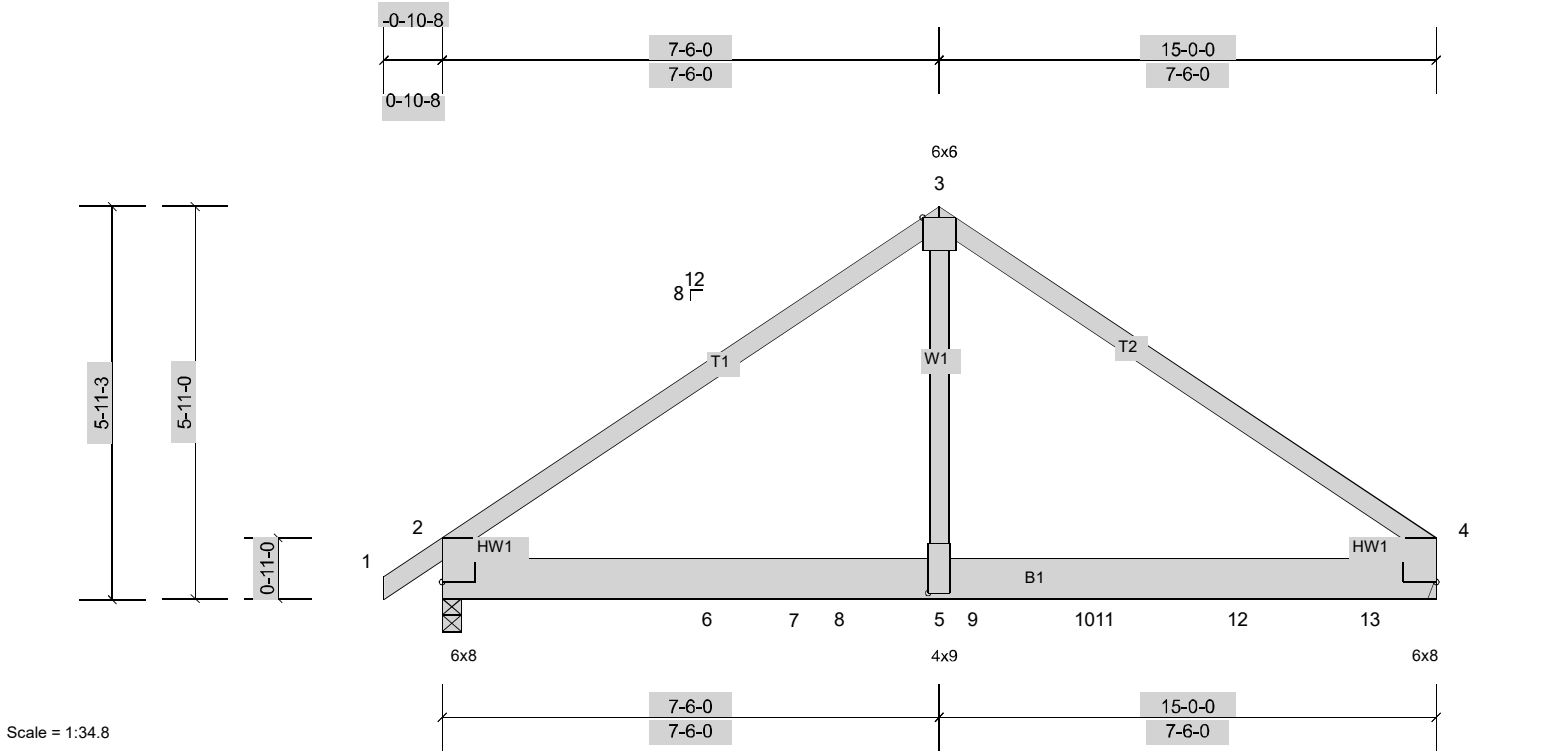
Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	A5	Common Girder	1	2	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck

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Scale = 1:34.8

Plate Offsets (X, Y): [2:Edge,0-0-11], [4:Edge,0-0-11], [5:0-6-4,0-2-0]

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	0.65	Vert(LL)	-0.10	4-5	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.16	4-5	>999	240	197/144
BCLL	0.0*	Rep Stress Incr	NO	WB	0.64	Horz(CT)	0.02	4	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.06	2-5	>999	240	Weight: 150 lb FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E
 BOT CHORD 2x8 SP 2400F 2.0E
 WEBS 2x4 SPF No.2
 WEDGE Left: 2x4 SPF No.2
 Right: 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.

REACTIONS (lb/size) 2=3773/0-3-8, (min. 0-3-1), 4=4840/ Mechanical, (min. 0-1-8)

Max Horiz 2=116 (LC 5)

Max Uplift 2=-472 (LC 8), 4=-395 (LC 9)

Max Grav 2=3923 (LC 13), 4=5203 (LC 14)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-5266/480, 3-4=-5214/480

BOT CHORD 2-6=-319/4156, 6-7=-319/4156, 7-8=-319/4156, 5-8=-319/4156, 5-9=-319/4156, 9-10=-319/4156, 10-11=-319/4156,

11-12=-319/4156, 12-13=-319/4156, 4-13=-319/4156

WEBS 3-5=-442/5599

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.
 Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- 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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 472 lb uplift at joint 2 and 395 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1585 lb down and 504 lb up at 4-0-0, 1134 lb down and 80 lb up at 6-0-0, 1237 lb down and 17 lb up at 8-0-0, 1236 lb down and 29 lb up at 10-0-0, and 1235 lb down and 38 lb up at 12-0-0, and 1249 lb down and 182 lb up at 14-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

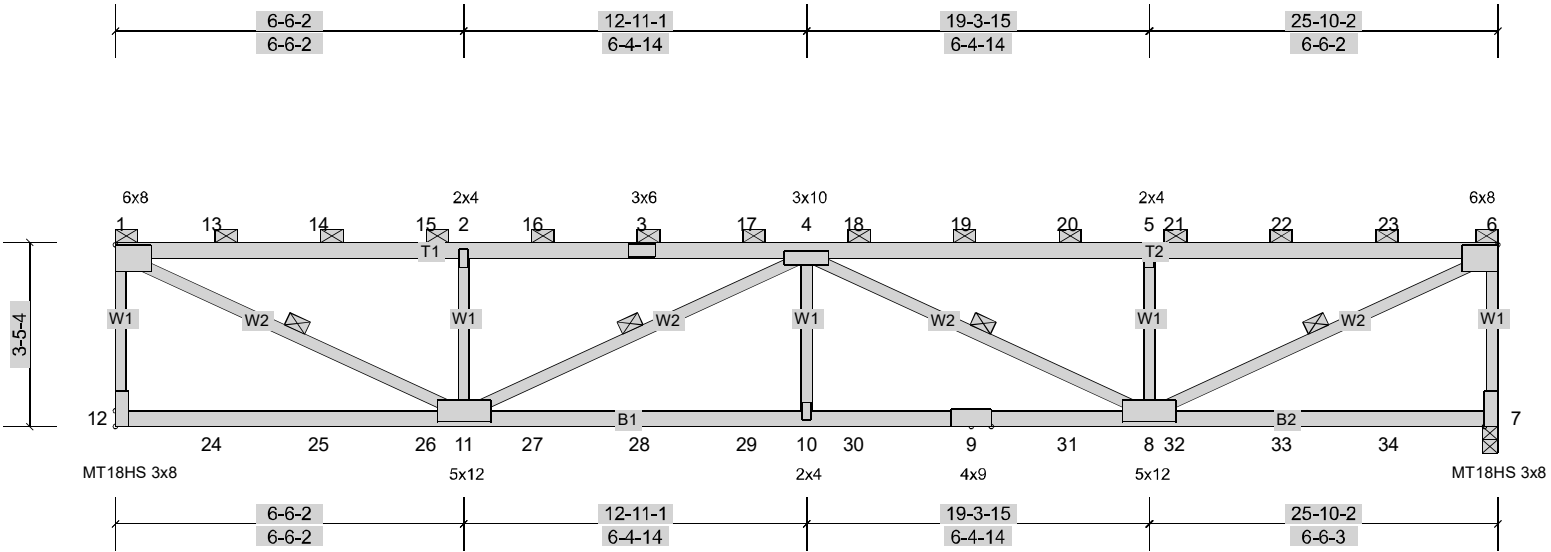
Uniform Loads (lb/ft)

Vert: 1-3=-70, 3-4=-70, 2-4=-20

Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	A5	Common Girder	1	2	Job Reference (optional)

Concentrated Loads (lb)
Vert: 6=-1545, 8=-1134, 9=-1134, 11=-1132, 12=-1132, 13=-1134

Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	B1	Flat Girder	1	1	Job Reference (optional)



Scale = 1:43.1

Plate Offsets (X, Y): [7:0-3-8,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	0.63	Vert(LL)	-0.19	10	>999	360	MT18HS	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.35	10-11	>871	240	MT20	197/144
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.97	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.20	10	>999	240	Weight: 93 lb	FT = 10%

LUMBER		BRACING	
TOP CHORD	2x4 SPF 2100F 1.8E	TOP CHORD	2-0-0 oc purlins (4-2-2 max.): 1-6, except end verticals.
BOT CHORD	2x4 SPF 2100F 1.8E	BOT CHORD	Rigid ceiling directly applied or 7-5-6 oc bracing.
WEBS	2x3 SPF No.2	WEBS	1 Row at midpt 1-11, 4-11, 4-8, 6-8
REACTIONS (lb/size)	7=1673/0-3-8, (min. 0-2-10), 12=1565/ Mechanical, (min. 0-1-8)		
	Max Horiz 12=-120 (LC 4)		
	Max Uplift 7=-540 (LC 5), 12=-492 (LC 4)		

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-12=-1479/528, 1-13=-2570/827, 13-14=-2570/827, 14-15=-2570/827, 2-15=-2570/827, 2-16=-2570/827, 3-16=-2570/827, 3-17=-2570/827, 4-17=-2570/827, 4-18=-2570/826, 18-19=-2570/826, 19-20=-2570/826, 5-20=-2570/826, 5-21=-2570/826, 21-22=-2570/826, 22-23=-2570/826, 6-23=-2570/826, 6-7=-1555/592
BOT CHORD	11-27=-1109/3344, 27-28=-1109/3344, 28-29=-1109/3344, 10-29=-1109/3344, 10-30=-1109/3344, 9-30=-1109/3344, 9-31=-1109/3344, 8-31=-1109/3344
WEBS	1-11=-902/2818, 2-11=-646/398, 4-11=-863/291, 4-10=0/336, 4-8=-863/291, 5-8=-646/398, 6-8=-902/2818

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)	All plates are MT20 plates unless otherwise indicated.
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)	Refer to girder(s) for truss to truss connections.
7)	Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 492 lb uplift at joint 12 and 540 lb uplift at joint 7.
8)	This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
9)	Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10)	Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 104 lb down and 80 lb up at 1-9-10, 104 lb down and 80 lb up at 3-9-10, 104 lb down and 80 lb up at 5-9-10, 104 lb down and 80 lb up at 7-9-10, 104 lb down and 80 lb up at 9-9-10, 104 lb down and 80 lb up at 11-9-10, 104 lb down and 80 lb up at 13-9-10, 104 lb down and 80 lb up at 15-9-10, 104 lb down and 80 lb up at 17-9-10, 104 lb down and 80 lb up at 19-9-10, 104 lb down and 80 lb up at 21-9-10, and 104 lb down and 80 lb up at 23-9-10, and 107 lb down and 74 lb up at 25-8-14 on top chord, and 34 lb down at 1-9-10, 34 lb down at 3-9-10, 34 lb down at 5-9-10, 34 lb down at 7-9-10, 34 lb down at 9-9-10, 34 lb down at 11-9-10, 34 lb down at 13-9-10, 34 lb down at 15-9-10, 34 lb down at 17-9-10, 34 lb down at 19-9-10, 34 lb down at 21-9-10, and 34 lb down at 23-9-10, and 51 lb down at 25-8-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S)	Standard
1)	Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
	Uniform Loads (lb/ft)
	Vert: 1-6=-70, 7-12=-20
	Concentrated Loads (lb)

Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	B1	Flat Girder	1	1	Job Reference (optional)

Vert: 3=-44, 6=-81, 7=-34, 9=-24, 13=-44, 14=-44, 15=-44, 16=-44, 17=-44, 18=-44, 19=-44, 20=-44, 21=-44, 22=-44, 23=-44, 24=-24, 25=-24, 26=-24, 27=-24, 28=-24, 29=-24, 30=-24, 31=-24, 32=-24, 33=-24, 34=-24

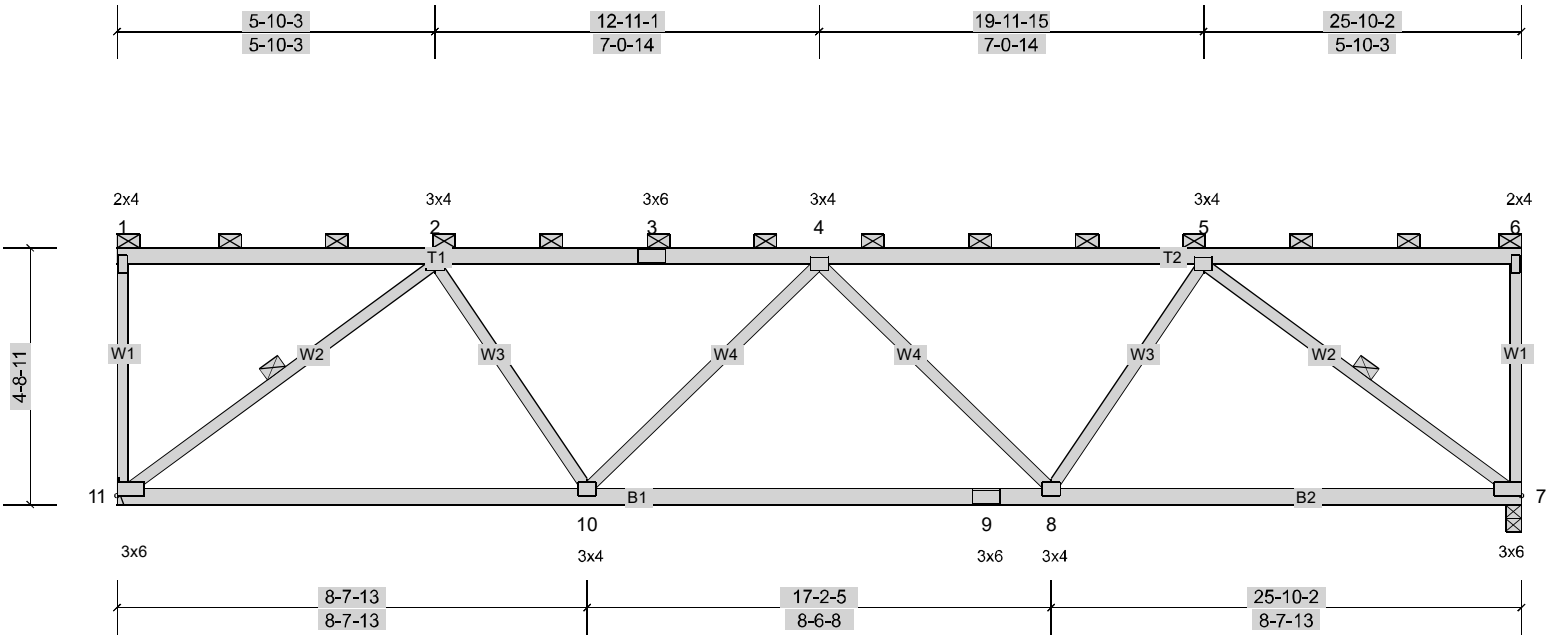
Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	B2	Flat	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck

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Scale = 1:42.4

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	0.56	Vert(LL)	-0.16	10-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.33	10-11	>924	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.06	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TP12014	Matrix-S		Wind(LL)	0.05	8-10	>999	240	Weight: 95 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD 2-0-0 oc purlins (4-3-9 max.): 1-6, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-11, 5-7

REACTIONS (lb/size) 7=1154/0-3-8, (min. 0-1-13), 11=1154/ Mechanical, (min. 0-1-8)
Max Horiz 11=-135 (LC 4)
Max Uplift 7=-68 (LC 5), 11=-68 (LC 4)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1480/64, 3-4=-1480/64, 4-5=-1480/64
BOT CHORD 10-11=-158/1207, 9-10=-164/1721, 8-9=-164/1721, 7-8=-123/1207
WEBS 2-11=-1504/124, 2-10=0/519, 4-10=-347/98, 4-8=-347/98, 5-8=0/519, 5-7=-1504/124

NOTES

- 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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 11 and 68 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

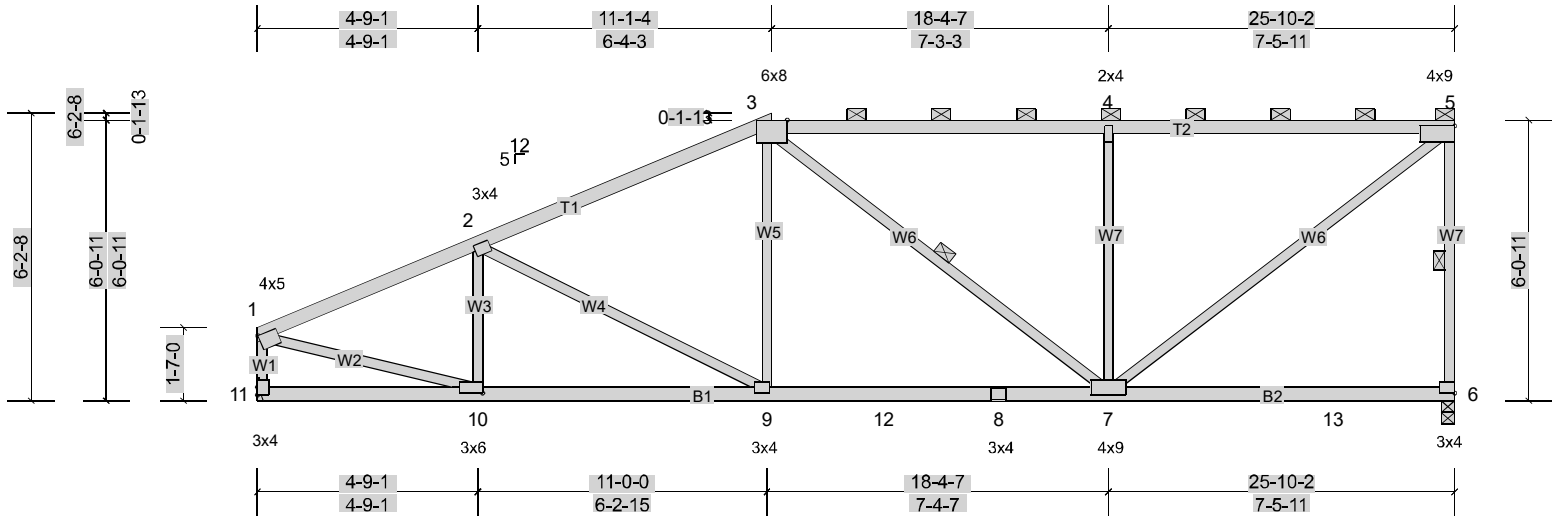
Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	B3	Half Hip	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck

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Scale = 1:49.7

Plate Offsets (X, Y): [1:0-2-0,0-1-8], [6:Edge,0-1-8], [10:0-2-8,0-1-8]

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	0.79	Vert(LL)	-0.12	6-7	>999	360	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.22	6-7	>999	240	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.03	6	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	7-9	>999	240	Weight: 101 lb FT = 10%

LUMBER

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

REACTIONS (lb/size) 6=1154/0-3-8, (min. 0-1-15), 11=1154/ Mechanical, (min. 0-1-8)
Max Horiz 11=189 (LC 5)
Max Uplift 6=-61 (LC 5), 11=-5 (LC 8)
Max Grav 6=1239 (LC 2), 11=1207 (LC 2)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1655/21, 2-3=-1545/58, 3-4=-1203/87, 4-5=-1201/86, 5-6=-1100/93, 1-11=-1133/27
BOT CHORD 9-10=-130/1490, 9-12=-106/1359, 8-12=-106/1359, 7-8=-106/1359
WEBS 5-7=-78/1504, 1-10=0/1492, 4-7=-616/146, 3-9=0/349, 2-10=-287/67

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 6 and 5 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

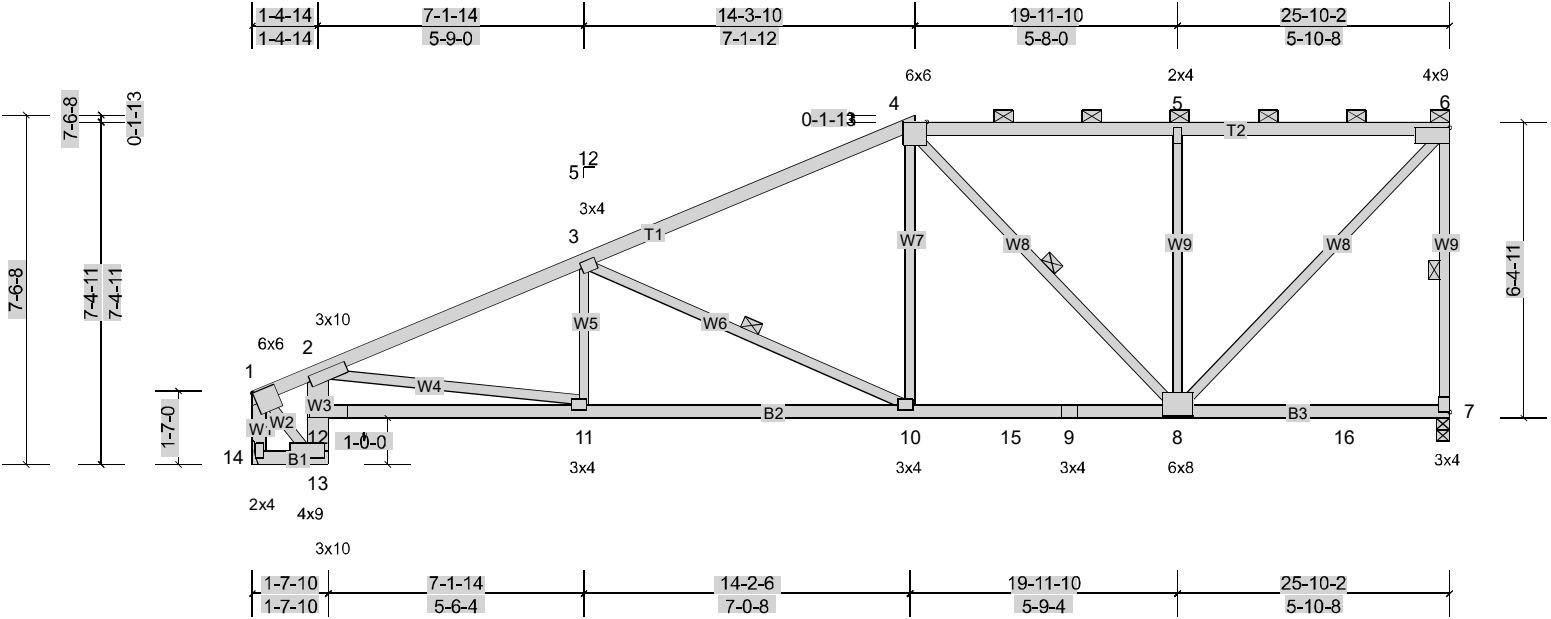
BRACING

TOP CHORD
BOT CHORD
WEBS

Structural wood sheathing directly applied or 4-0-3 oc purlins, except end verticals, and 2-0-0 oc purlins (3-11-11 max.): 3-5.
Rigid ceiling directly applied or 10-0-0 oc bracing.
1 Row at midpt 5-6, 3-7

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	B4	Half Hip	1	1	Job Reference (optional)



Scale = 1:49.7

Plate Offsets (X, Y): [7:Edge,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	0.64	Vert(LL)	-0.12	10-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.23	10-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.10	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	10-11	>999	240	Weight: 107 lb FT = 10%	

LUMBER			BRACING	
TOP CHORD	2x4	SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 3-5-7 oc purlins, except end verticals, and 2-0-0 oc purlins (5-6-9 max.): 4-6. Rigid ceiling directly applied or 9-7-10 oc bracing. 1 Row at midpt 6-7, 4-8, 3-10
BOT CHORD	2x4	SPF No.2	BOT CHORD	
WEBS	2x3	SPF No.2 *Except* W1:2x4 SPF No.2, W3:2x6 SP DSS	WEBS	
REACTIONS (lb/size) 7=1152/0-3-8, (min. 0-1-15), 14=1152/ Mechanical, (min. 0-1-8)				
Max Horiz	14=221	(LC 5)		
Max Uplift	7=-60	(LC 5), 14=-17 (LC 8)		
Max Grav	7=1234	(LC 2), 14=1198 (LC 2)		

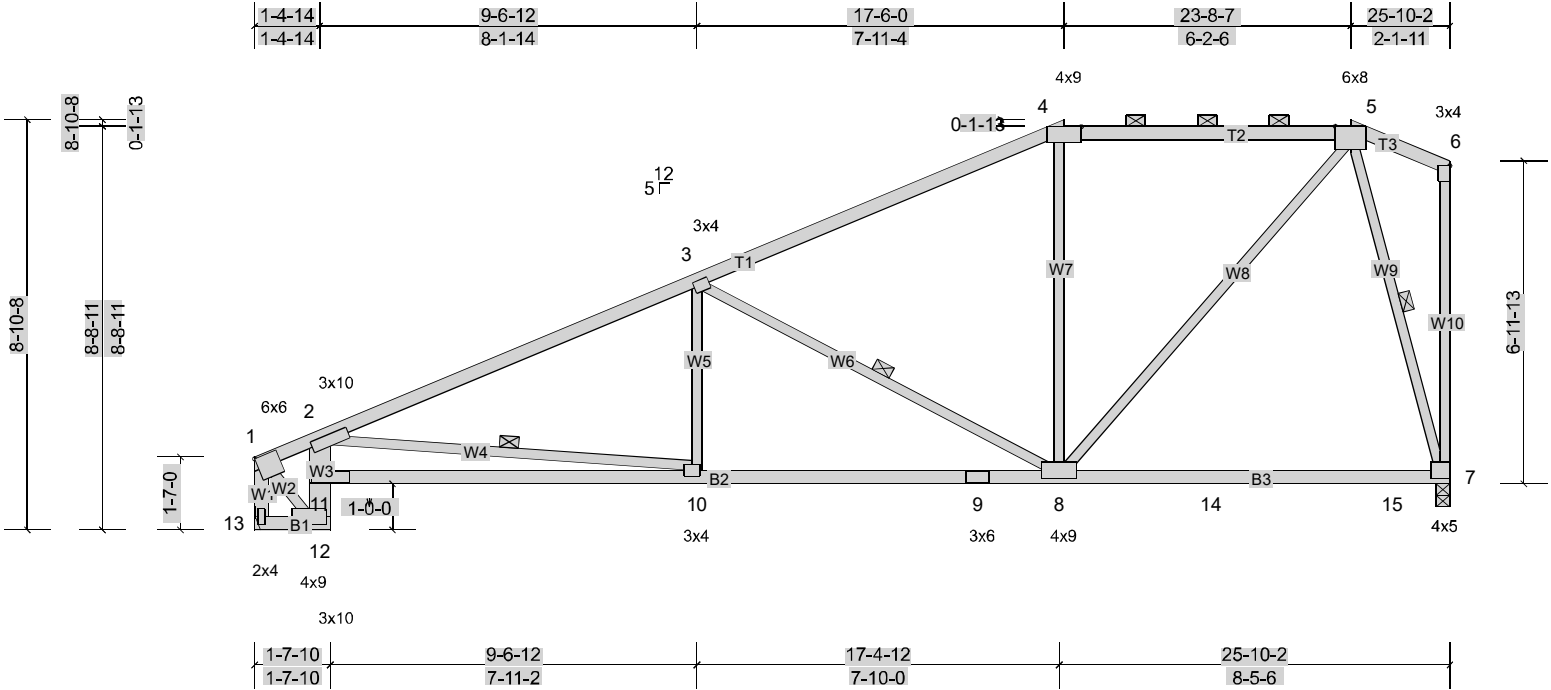
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-864/22, 2-3=-2212/63, 3-4=-1482/48, 4-5=-942/74, 5-6=-940/72, 6-7=-1122/84, 1-14=-1157/25
BOT CHORD	11-12=-371/1706, 10-11=-150/1996, 10-15=-102/1284, 9-15=-102/1284, 8-9=-102/1284
WEBS	6-8=-69/1355, 1-13=-35/1110, 12-13=-806/33, 2-12=-751/58, 2-11=0/409, 4-10=0/578, 5-8=-481/115, 4-8=-509/41, 3-11=0/255, 3-10=-774/112

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - 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); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 7 and 17 lb uplift at joint 14.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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

Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	B5	Hip	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck



Scale = 1:49.8

Plate Offsets (X, Y): [4:0-4-8,0-1-15]
--

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	0.84	Vert(LL)	-0.27	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.44	7-8	>703	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.12	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	10-11	>999	240	Weight: 109 lb FT = 10%	

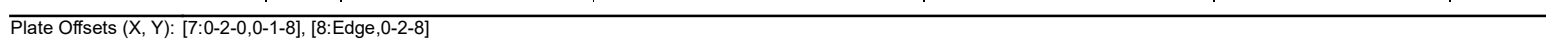
LUMBER		BRACING	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 2-9-14 oc purlins, except end verticals, and 2-0-0 oc purlins (4-11-2 max.): 4-5. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-8-5 oc bracing: 10-11. 1 Row at midpt 3-8, 5-7, 2-10 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
BOT CHORD	2x4 SPF No.2	BOT CHORD	
WEBS	2x3 SPF No.2 *Except* W1:2x4 SPF No.2, W3:2x6 SP DSS	WEBS	
REACTIONS (lb/size)			
	7=1152/0-3-8, (min. 0-1-15), 13=1152/ Mechanical, (min. 0-1-8)		
	Max Horiz 13=243 (LC 5)		
	Max Uplift 7=-37 (LC 5), 13=-26 (LC 8)		
	Max Grav 7=1235 (LC 2), 13=1191 (LC 2)		

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-892/40, 2-3=-2035/77, 3-4=-1133/64, 4-5=-960/85, 1-13=-1150/34
BOT CHORD	10-11=-432/1881, 9-10=-121/1802, 8-9=-121/1802, 8-14=-69/295, 14-15=-69/295, 7-15=-69/295
WEBS	3-10=0/346, 3-8=-960/128, 5-8=-29/1038, 1-12=-93/1262, 5-7=-1093/116, 11-12=-923/75, 2-11=-856/114, 2-10=-144/313

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - 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); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 13 and 37 lb uplift at joint 7.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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

Wheeler Lumber, Waverly, KS 66871, chuck Run: 8.4 S 0 Aug 16 2021 Print: 8.400 S Aug 16 2021 MiTek Industries, Inc. Wed Feb 09 15:37:23 Page: 1
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LUMBER		BRACING	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied or 3-7-8 oc purlins, except end verticals.
BOT CHORD	2x4 SPF No.2 *Except* B2:2x6 SP DSS	BOT CHORD	
WEBS	2x3 SPF No.2	WEBS	1 Row at midpt 7-8, 5-9, 3-11
REACTIONS (lb/size)		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	
	8=1154/0-3-8, (min. 0-1-15), 15=1154/ Mechanical, (min. 0-1-8)		
Max Horiz	15=308 (LC 5)		
Max Uplift	8=-170 (LC 8), 15=-171 (LC 8)		
Max Grav	8=1240 (LC 2), 15=1202 (LC 2)		

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCFL=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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 171 lb uplift at joint 15 and 170 lb uplift at joint 8.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

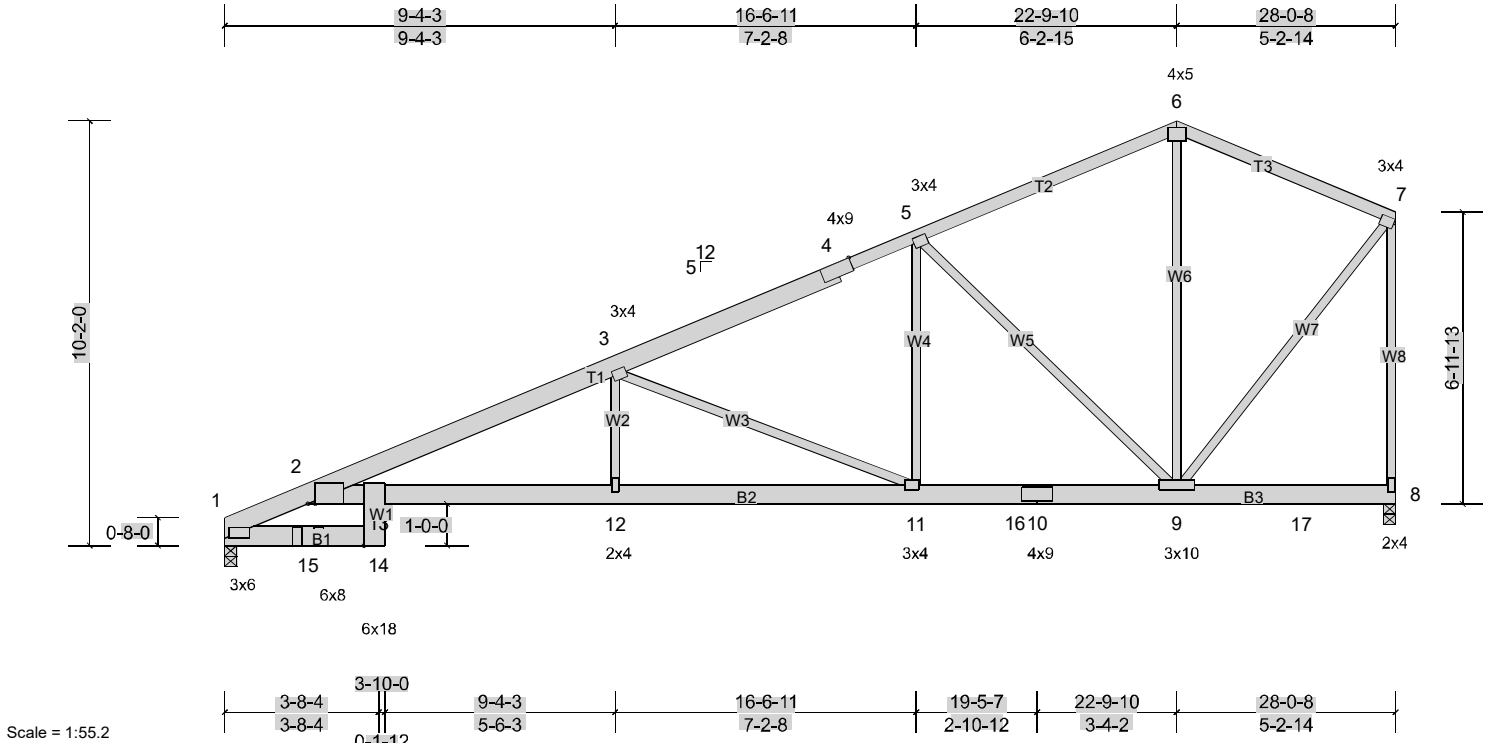
Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	B7	ROOF SPECIAL GIRDER	1	3	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck

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Scale = 1:55.2

Plate Offsets (X, Y): [2:0-2-2,Edge], [4:0-4-8,Edge], [14:0-5-8,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	0.89	Vert(LL)	-0.35	12-13	>947	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.62	12-13	>540	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.23	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.24	12-13	>999	240	Weight: 489 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* T1:2x6 SP 2400F 2.0E
 BOT CHORD 2x6 SP 2400F 2.0E
 WEBS 2x3 SPF No.2 *Except* W1:2x4 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.

REACTIONS (lb/size) 1=5750/0-3-8, (min. 0-3-3), 8=1571/0-3-8, (min. 0-1-8)
 Max Horiz 1=312 (LC 26)
 Max Uplift 1=-571 (LC 8), 8=-212 (LC 8)
 Max Grav 1=6062 (LC 18), 8=1662 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1914/72, 2-3=-5674/725, 3-4=-2322/311, 4-5=-2200/342, 5-6=-994/202, 6-7=-965/225, 7-8=-1584/249
 BOT CHORD 2-13=-801/5427, 12-13=-801/5427, 11-12=-801/5427, 11-16=-277/2003, 10-16=-277/2003, 9-10=-277/2003
 WEBS 13-14=-234/2883, 3-12=-59/1598, 3-11=-3725/570, 5-11=-105/1407, 5-9=-1618/333, 6-9=-45/426, 7-9=-176/1390

NOTES

- Special connection required to distribute bottom chord loads equally between all plies.
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-4-0 oc.
 Web connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x3 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 571 lb uplift at joint 1 and 212 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use Simpson Strong-Tie HGUS26-2 (20-16d Girder, 8-16d Truss) or equivalent at 1-11-14 from the left end to connect truss(es) A5 (2 ply 2x8 SP) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S)

- Standard
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-6=-70, 6-7=-70, 1-14=-20, 8-13=-20
 Concentrated Loads (lb)
 Vert: 15=-4820

Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	B8	Roof Special	2	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck

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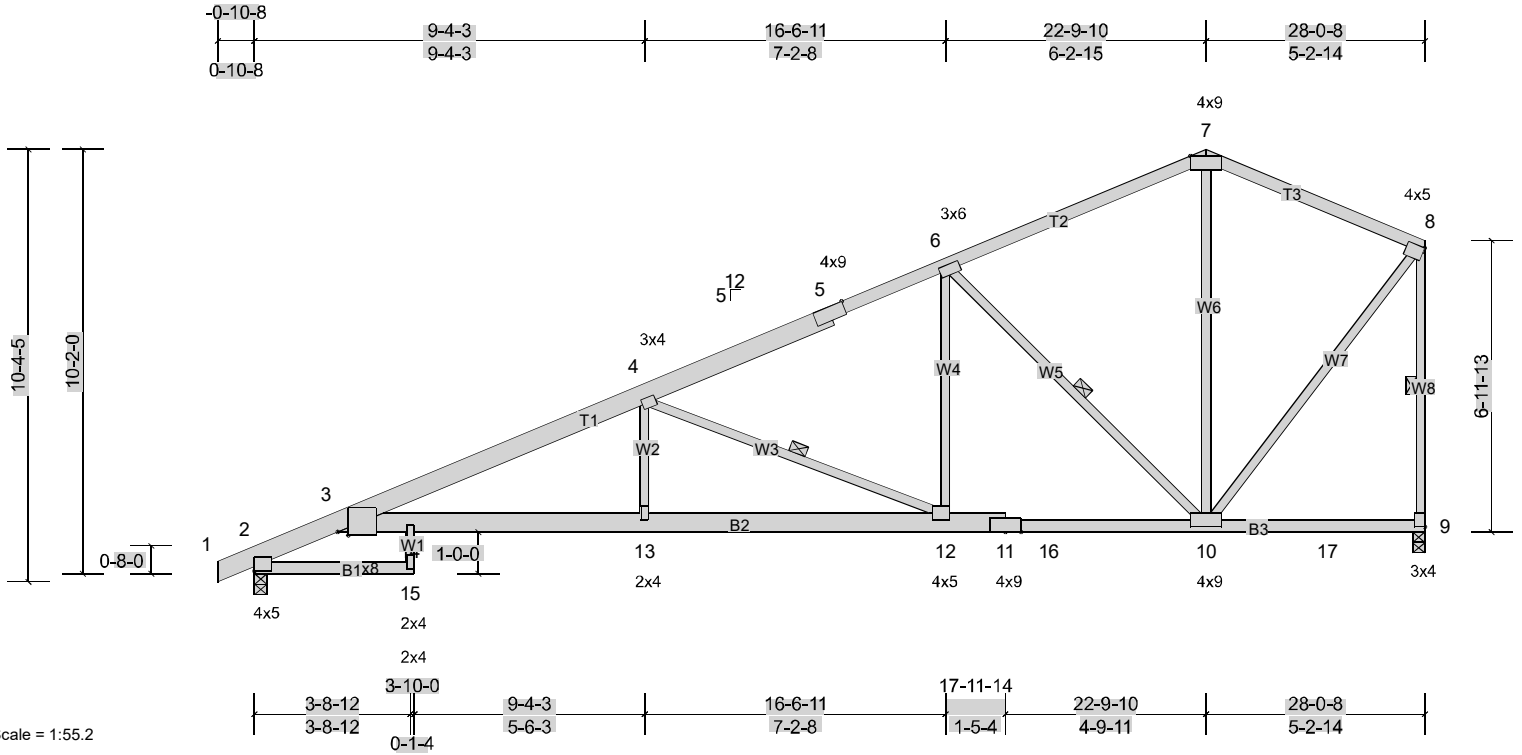


Plate Offsets (X, Y): [3:0-3-2,0-0-15], [5:0-4-8,Edge], [8:0-2-0,0-1-8], [9:Edge,0-2-8]

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	0.83	Vert(LL)	-0.38	13-14	>871	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.66	13-14	>502	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.31	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.31	13-14	>999	240	Weight: 139 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* T1:2x6 SP 2400F 2.0E
 BOT CHORD 2x4 SPF No.2 *Except* B2:2x6 SPF 1650F 1.4E
 WEBS 2x3 SPF No.2

REACTIONS (lb/size) 2=1323/0-3-8, (min. 0-2-3), 9=1249/0-3-8, (min. 0-2-2)
 Max Horiz 2=318 (LC 5)
 Max Uplift 2=-214 (LC 8), 9=-186 (LC 8)
 Max Grav 2=1384 (LC 2), 9=1343 (LC 2)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-787/0, 3-4=-3125/512, 4-5=-1708/259, 5-6=-1561/290, 6-7=-776/184, 7-8=-743/207, 8-9=-1244/220
 BOT CHORD 3-14=-591/2896, 13-14=-591/2896, 12-13=-591/2896, 11-12=-227/1482, 11-16=-230/1476, 10-16=-230/1476
 WEBS 4-13=0/471, 4-12=-1545/393, 6-12=-58/844, 6-10=-1174/294, 7-10=-34/271, 8-10=-146/1060

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 214 lb uplift at joint 2 and 186 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

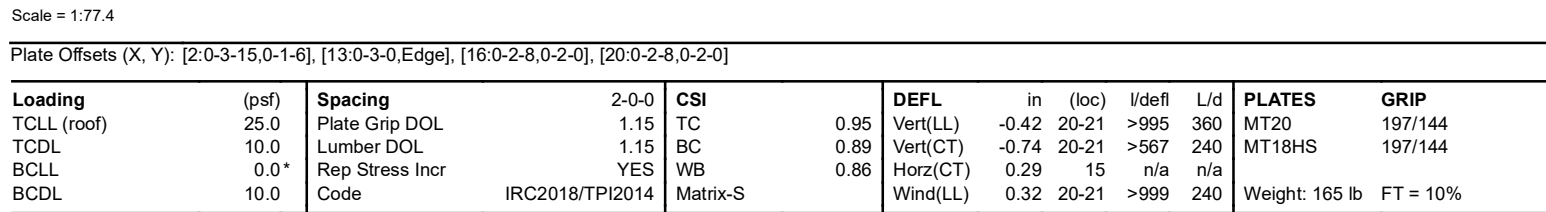
LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-13 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 4-12, 6-10, 8-9

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

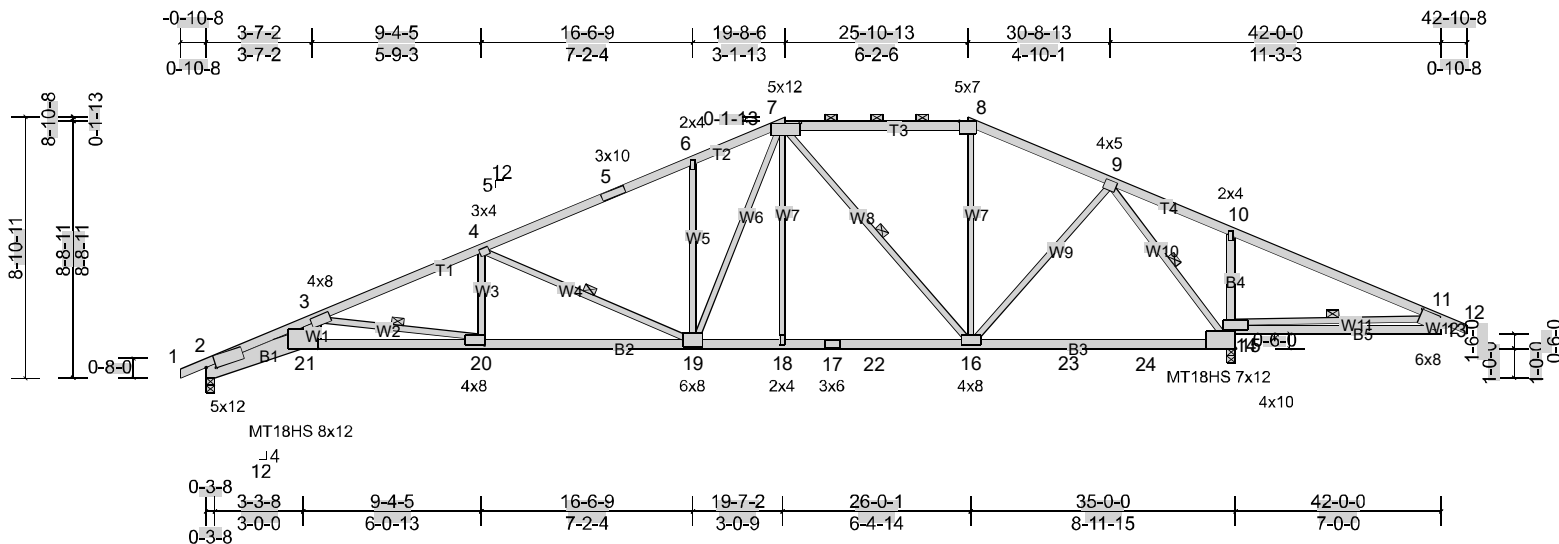
Wheeler Lumber, Waverly, KS 66871, chuck Run: 8.4 S 0 Aug 16 2021 Print: 8.400 S Aug 16 2021 MiTek Industries, Inc. Wed Feb 09 15:37:24 Page: 1
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NOTES

- 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) All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 6) WARNING: Required bearing size at joint(s) 15 greater than input bearing size.
- 7) Bearing at joint(s) 2, 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 253 lb uplift at joint 2 and 304 lb uplift at joint 15.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Scale = 1:78.3

Plate Offsets (X, Y): [2:0-3-15,0-1-6], [7:0-6-0,0-1-5], [13:0-3-4,0-2-8], [20:0-2-8,0-2-0]

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	0.77	Vert(LL)	-0.41	20-21	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	WB	0.89	Vert(CT)	-0.72	20-21	>576	240	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WC	0.96	Horz(CT)	0.29	15	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.30	20-21	>999	240	Weight: 176 lb	FT = 10%

LUMBER

TOP CHORD	2x4 SPF No.2 *Except* T1:2x4 SPF 2100F 1.8E
BOT CHORD	2x4 SPF 2100F 1.8E *Except* B1:2x8 SP DSS, B5,B3:2x4 SPF No.2
WEBS	2x3 SPF No.2 *Except* W1:2x8 SP DSS, W12:2x6 SPF No.2

REACTIONS (lb/size) 2=1556/0-3-8, (min. 0-2-8), 15=2339/0-3-8, (req. 0-3-13)

Max Horiz 2=177 (LC 8)
Max Uplift 2=-238 (LC 8), 15=-355 (LC 5)
Max Grav 2=1611 (LC 2), 15=2448 (LC 2)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=-7205/1162, 3-4=-3618/523, 4-5=-2374/327, 5-6=-2274/342, 6-7=-2307/430, 7-8=-1247/214, 8-9=-1394/211, 9-10=-151/727, 10-11=-244/850
BOT CHORD	2-21=-1220/6649, 20-21=-1048/5551, 19-20=-533/3324, 18-19=-133/1704, 17-18=-133/1702, 17-22=-133/1702, 16-22=-133/1702, 16-23=-27/656, 23-24=-27/656, 15-24=-27/656, 14-15=-626/198, 10-14=-469/212, 13-14=-119/316
WEBS	3-21=-322/2220, 3-20=-2251/520, 4-20=0/572, 4-19=-1334/321, 6-19=-317/197, 7-19=-279/1046, 7-16=-725/157, 9-16=-60/948, 9-15=-2089/260, 11-14=-1013/354

BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-2-4 oc purlins, except end verticals, and 2-0-0 oc purlins (4-0-12 max.): 7-8.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 3-20, 4-19, 7-16, 9-15, 11-14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=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) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * 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 BC DL = 10.0psf.
- 7) WARNING: Required bearing size at joint(s) 15 greater than input bearing size.
- 8) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 238 lb uplift at joint 2 and 355 lb uplift at joint 15.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) 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

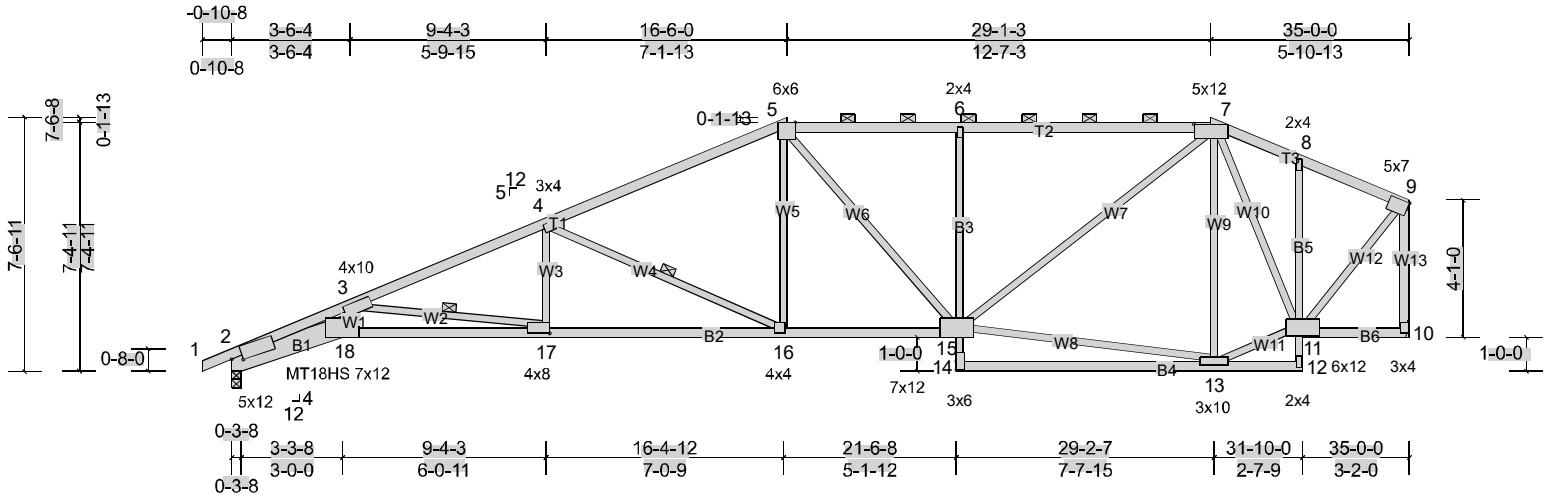
Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	C3	Hip	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck

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Scale = 1:68.5

Plate Offsets (X, Y): [2:0-3-15,0-1-6], [7:0-6-0,0-1-5], [17:0-2-8,0-2-0]

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	0.80	Vert(LL)	-0.39	17-18	>999	360	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.73	17-18	>572	240	MT18HS 197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.31	10	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.21	17-18	>999	240	Weight: 161 lb FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E *Except* T3:2x4 SPF No.2
 BOT CHORD 2x3 SPF No.2 *Except* B1:2x8 SP DSS, B2:2x4 SPF 2100F 1.8E, B4,B6:2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except* W1:2x6 SPF No.2, W13:2x4 SPF No.2

REACTIONS (lb/size) 2=1634/0-3-8, (min. 0-2-9), 10=1561/ Mechanical, (min. 0-1-8)
 Max Horiz 2=150 (LC 5)
 Max Uplift 2=-28 (LC 8), 10=-19 (LC 5)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-7179/167, 3-4=-3693/53, 4-5=-2510/60, 5-6=-2140/100, 6-7=-2140/101, 7-8=-945/75, 8-9=-979/56, 9-10=-1516/33
 BOT CHORD 2-18=-230/6602, 17-18=-213/5707, 16-17=-91/3387, 15-16=-66/2213, 6-15=-558/121
 WEBS 3-18=-13/2083, 3-17=-2342/156, 4-17=0/488, 4-16=-1281/123, 5-16=0/669, 13-15=-58/994, 7-15=-62/1393, 7-13=-403/107, 11-13=-24/1122, 7-11=-592/0, 9-11=-26/1349

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 2 and 19 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-8 oc purlins, except end verticals, and 2-0-0 oc purlins (4-5-4 max.): 5-7.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
 WEBS 1 Row at midpt 3-17, 4-16

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

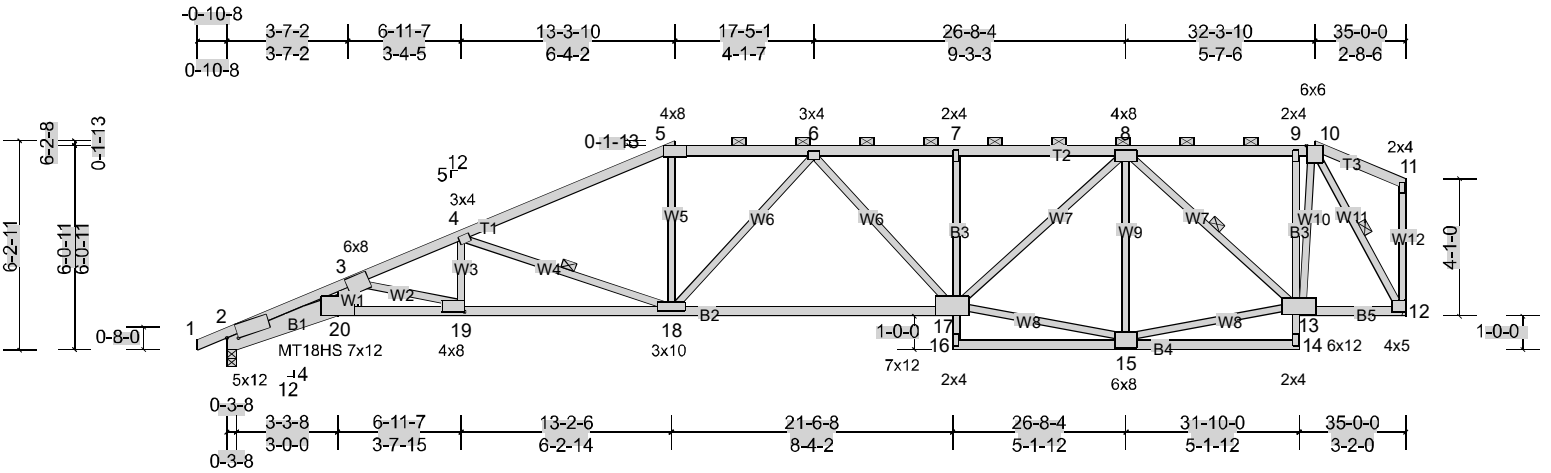
Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	C4	Hip	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck

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Scale = 1:68.4

Plate Offsets (X, Y): [2:0-3-15,0-1-6], [19:0-2-8,0-2-0]

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	0.80	Vert(LL)	-0.33	19-20	>999	360	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.65	17-18	>639	240	MT18HS 197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.29	12	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.18	19-20	>999	240	Weight: 158 lb FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* T1:2x4 SPF 2100F 1.8E
 BOT CHORD 2x3 SPF No.2 *Except* B1:2x8 SP DSS, B2:2x4 SPF 2100F 1.8E, B4,B5:2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except* W1:2x8 SP DSS
REACTIONS (lb/size) 2=1636/0-3-8, (min. 0-2-9), 12=1563/ Mechanical, (min. 0-1-8)
 Max Horiz 2=148 (LC 5)
 Max Uplift 2=-16 (LC 4), 12=-50 (LC 5)

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-4-1 max.): 5-10.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 19-20
 6-0-0 oc bracing: 15-16.
 WEBS 1 Row at midpt 4-18, 8-13, 10-12

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-7081/146, 3-4=-4208/71, 4-5=-3001/75, 5-6=-2682/82, 6-7=-2714/121, 7-8=-2704/123, 8-9=-946/79, 9-10=-943/78
 BOT CHORD 2-20=-266/6504, 19-20=-233/5467, 18-19=-158/3896, 17-18=-151/2841, 7-17=-315/75, 12-13=-58/790
 WEBS 3-20=-46/2092, 4-18=-1277/123, 5-18=0/789, 6-18=-421/79, 15-17=-68/1716, 8-17=-58/1333, 8-15=-559/104, 13-15=-91/1679, 8-13=-1100/39, 10-13=-59/1318, 10-12=-1636/72, 4-19=0/453, 3-19=-1621/77

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 2 and 50 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

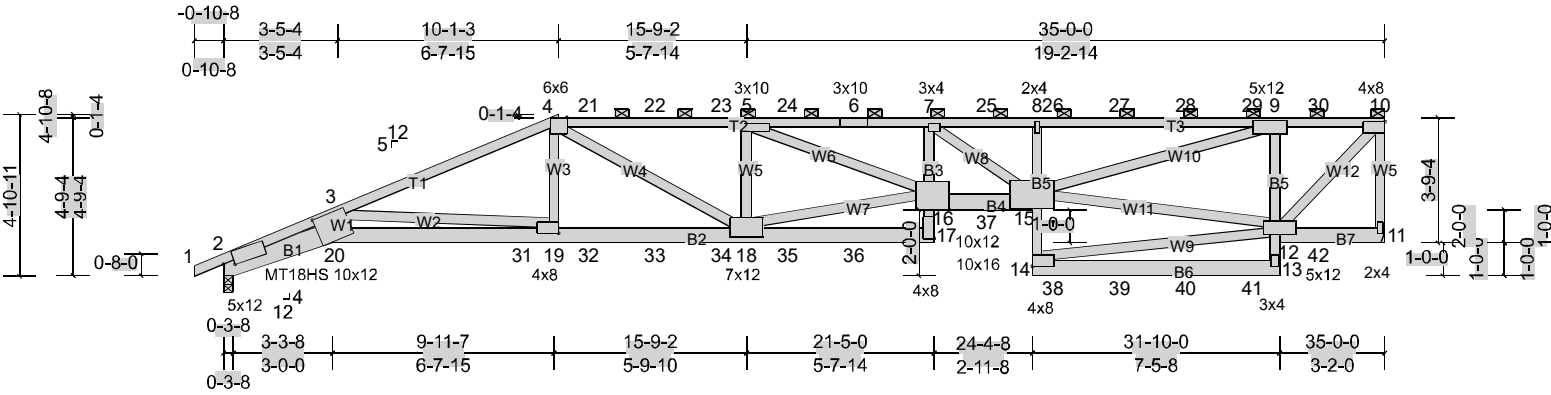
Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	C5	Half Hip Girder	1	2	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck

Run: 8.4 S 0 Aug 16 2021 Print: 8.400 S Aug 16 2021 MiTek Industries, Inc. Wed Feb 09 15:37:25

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Scale = 1:69.4

Plate Offsets (X, Y): [2:0-3-15,0-1-6], [5:0-3-8,0-1-8], [16:0-8-12,Edge], [17:Edge,0-3-8], [19:0-3-8,0-2-0], [20:0-5-12,0-5-4]

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	0.84	Vert(LL)	-0.50	17	>825	360	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.91	17	>458	240	MT18HS 197/144
BCLL	0.0*	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.39	11	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.37	17	>999	240	Weight: 421 lb FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E
BOT CHORD 2x6 SP 2400F 2.0E *Except* B1:2x8 SP DSS, B3,B5:2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-0-8 oc purlins, except end verticals, and 2-0-0 oc purlins (4-3-6 max.): 4-10.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=2950/0-3-8, (min. 0-2-5), 11=3008/ Mechanical, (min. 0-1-8)
Max Horiz 2=136 (LC 5)
Max Uplift 2=-383 (LC 8), 11=-397 (LC 5)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-13063/1871, 3-4=-7753/1170, 4-21=-8055/1150, 21-22=-8058/1150, 22-23=-8059/1151, 5-23=-8061/1151, 5-24=-11693/1606, 6-24=-11693/1606, 6-7=-11693/1606, 7-25=-9457/1278, 8-25=-9457/1278, 8-26=-9400/1296, 26-27=-9400/1296, 27-28=-9400/1296, 28-29=-9400/1296, 9-29=-9400/1296, 9-30=-2689/405, 10-30=-2689/405, 10-11=-2907/414
BOT CHORD 2-20=-1845/12009, 20-31=-1675/10871, 19-31=-1674/10865, 19-32=-1132/7060, 32-33=-1132/7060, 33-34=-1132/7060, 18-34=-1132/7060, 18-35=-145/1062, 35-36=-145/1062, 17-36=-145/1062, 16-17=0/295, 7-16=-88/1312, 16-37=-1648/11827, 15-37=-1654/11816, 14-15=0/274, 8-15=-677/251, 12-13=0/273, 9-12=-2999/591
WEBS 3-20=-452/3246, 3-19=-3760/599, 4-19=-259/1743, 4-18=-88/1360, 5-18=-2255/480, 16-18=-1071/7174, 5-16=-493/3900, 7-15=-2905/407, 12-15=-416/2508, 9-15=-959/6978, 10-12=-558/3913, 12-14=-69/254

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-4-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- 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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 397 lb uplift at joint 11 and 383 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	C5	Half Hip Girder	1	2	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 141 lb down and 71 lb up at 11-0-0, 142 lb down and 71 lb up at 13-0-0, 142 lb down and 71 lb up at 15-0-0, 142 lb down and 71 lb up at 17-0-0, 142 lb down and 71 lb up at 19-0-0, 142 lb down and 71 lb up at 21-0-0, 122 lb down and 52 lb up at 23-0-0, 141 lb down and 70 lb up at 25-0-0, 141 lb down and 70 lb up at 27-0-0, 141 lb down and 70 lb up at 29-0-0, and 141 lb down and 70 lb up at 31-0-0, and 142 lb down and 71 lb up at 33-0-0 on top chord, and 787 lb down and 259 lb up at 9-0-0, 69 lb down at 11-0-0, 69 lb down at 13-0-0, 69 lb down at 15-0-0, 69 lb down at 17-0-0, 69 lb down at 19-0-0, 69 lb down at 21-3-4, 136 lb down at 23-0-0, 69 lb down at 25-0-0, 69 lb down at 27-0-0, 69 lb down at 29-0-0, and 69 lb down at 31-0-0, and 69 lb down at 33-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (lb/ft)
- Vert: 1-4=-70, 4-10=-70, 2-20=-20, 17-20=-20, 15-16=-20, 13-14=-20, 11-12=-20
- Concentrated Loads (lb)
- Vert: 6=-110, 17=-52, 7=-110, 21=-110, 22=-110, 23=-110, 24=-110, 25=-91, 26=-109, 27=-109, 28=-109, 29=-109, 30=-110, 31=-787, 32=-52, 33=-52, 34=-52, 35=-52, 36=-52, 37=-108, 38=-52, 39=-52, 40=-52, 41=-52, 42=-51

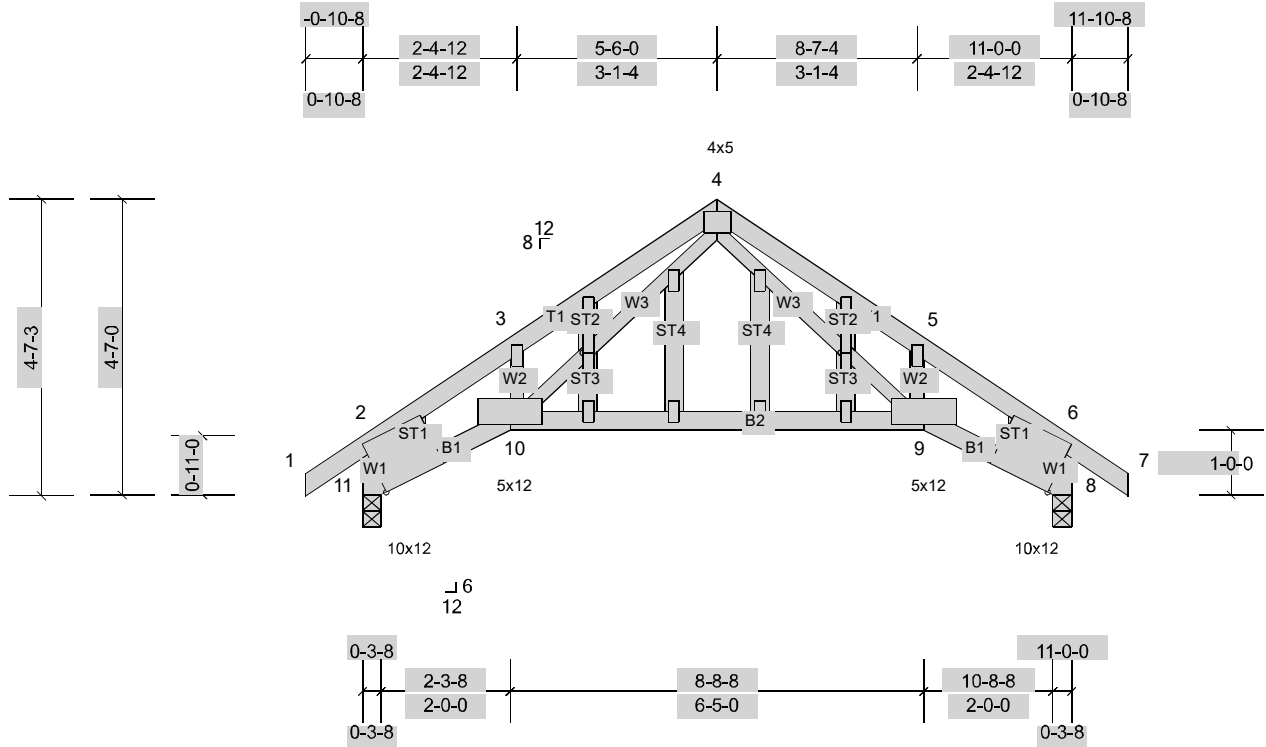
Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	D1	GABLE	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck

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Scale = 1:35.7

Plate Offsets (X, Y): [11:0-2-14,Edge], [14:0-1-7,0-1-0], [23:0-1-7,0-1-0]

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	0.61	Vert(LL)	-0.10	9-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL		1.15	BC	0.46	Vert(CT)	-0.22	9-10	>562	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.11	Horz(CT)	0.11	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014		Matrix-S		Wind(LL)	0.05	9-10	>999	240	Weight: 53 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except* W1:2x6 SPF No.2
 OTHERS 2x4 SPF No.2

REACTIONS (lb/size) 8=552/0-3-8, (min. 0-1-8), 11=552/0-3-8, (min. 0-1-8)
 Max Horiz 11=140 (LC 7)
 Max Uplift 8=-77 (LC 9), 11=-77 (LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-833/97, 3-4=-705/197, 4-5=-685/160, 5-6=-833/48, 2-11=-728/109, 6-8=-728/73
 BOT CHORD 10-11=-83/691, 9-10=-2/380, 8-9=0/605
 WEBS 4-9=-108/316, 4-10=-133/369

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Bearing at joint(s) 11, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 11 and 77 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

BRACING

TOP CHORD
 BOT CHORD

Structural wood sheathing directly applied or 5-2-3 oc purlins, except end verticals.

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

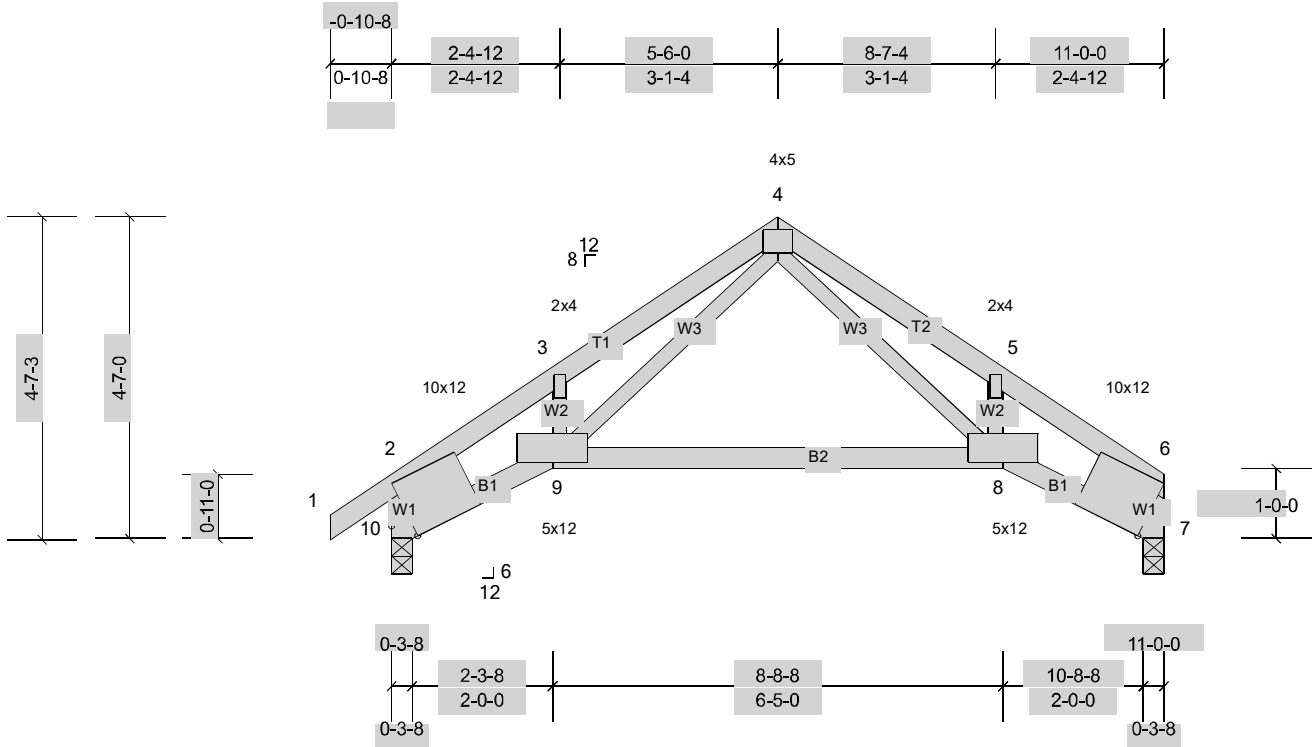
Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	D2	Roof Special	3	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck

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Scale = 1:32.8

Plate Offsets (X, Y): [2:0-3-4,Edge], [6:0-2-14,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	0.62	Vert(LL)	-0.10	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.24	8-9	>532	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.12	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.06	8-9	>999	240	Weight: 41 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except* W1:2x6 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-1-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 7=470/0-3-8, (min. 0-1-8), 10=556/0-3-8, (min. 0-1-8)
Max Horiz 10=134 (LC 5)
Max Uplift 7=-52 (LC 9), 10=-77 (LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-843/109, 3-4=-704/207, 4-5=-701/182, 5-6=-826/74, 2-10=-736/118, 6-7=-622/64
BOT CHORD 9-10=-106/678, 8-9=-12/370, 7-8=-40/604
WEBS 4-8=-123/330, 4-9=-140/366

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Bearing at joint(s) 10, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 10 and 52 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

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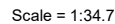


Plate Offsets (X, Y): [4:0-6-4,0-2-4], [9:0-3-8,0-4-12], [10:0-3-12,0-4-4], [11:0-0-12,0-1-2]

Loading	(psf)	Spacing	2-0-0			
TCLL (roof)	25.0	Plate Grip DOL	1.15			
TCDL	10.0	Lumber DOL	1.15			
BCLL	0.0*	Rep Stress Incr	NO			
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		

Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	E1	GABLE	1	1	Job Reference (optional)

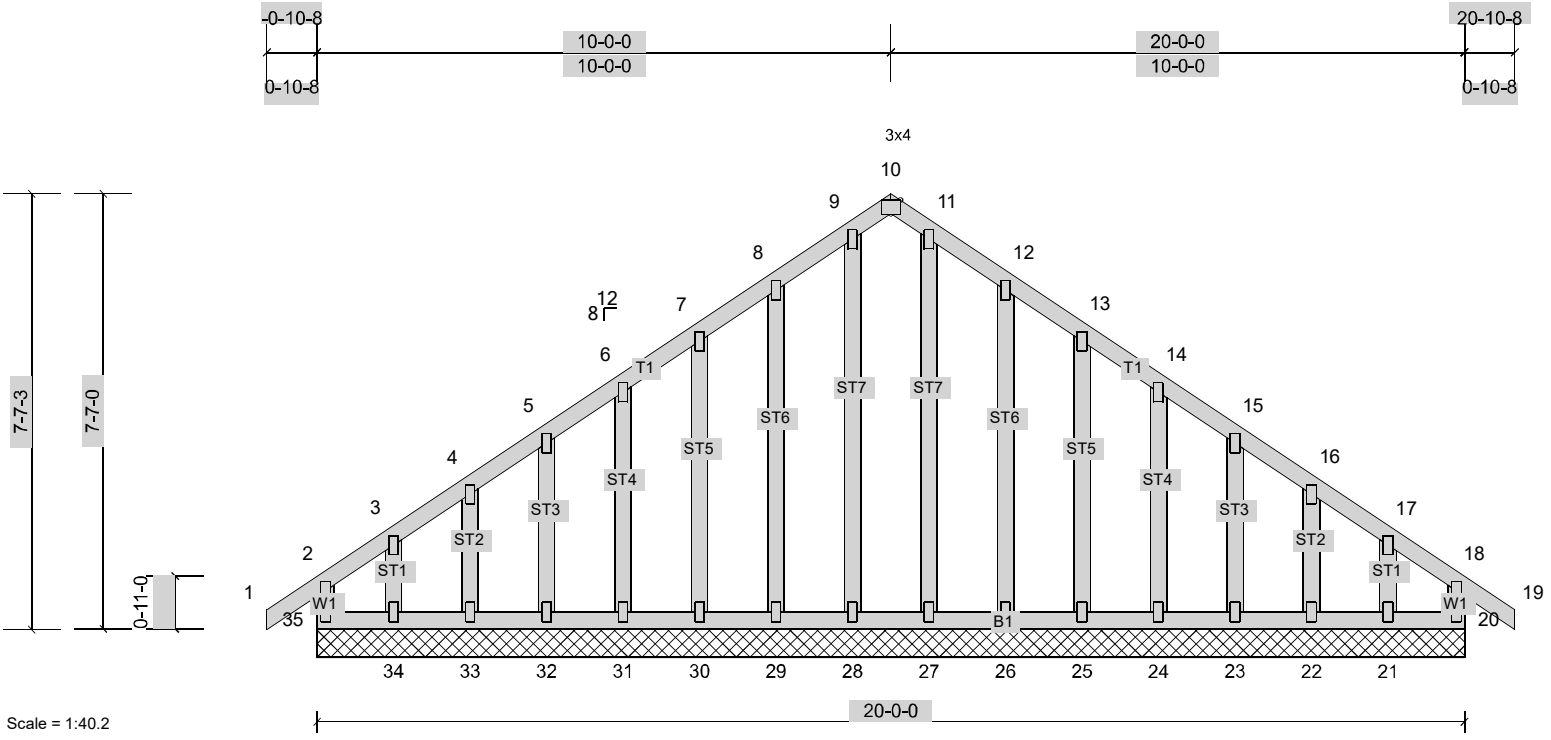


Plate Offsets (X, Y): [10:0-2-0,Edge]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	20	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 117 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
BOT CHORD
Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
Rigid ceiling directly applied or 6-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS All bearings 20-0-0.
(lb) - Max Horiz 35=-216 (LC 6)
Max Uplift All uplift 100 (lb) or less at joint(s) 20, 22, 23, 24, 25, 26, 29, 30, 31, 32, 33 except 21=-127 (LC 9), 34=-140 (LC 8), 35=-106 (LC 4)
Max Grav All reactions 250 (lb) or less at joint(s) 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - 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
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 33, 32, 31, 30, 29, 26, 25, 24, 23, 22 except (jt=lb) 35=106, 34=140, 21=126.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	E2	Common	3	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck

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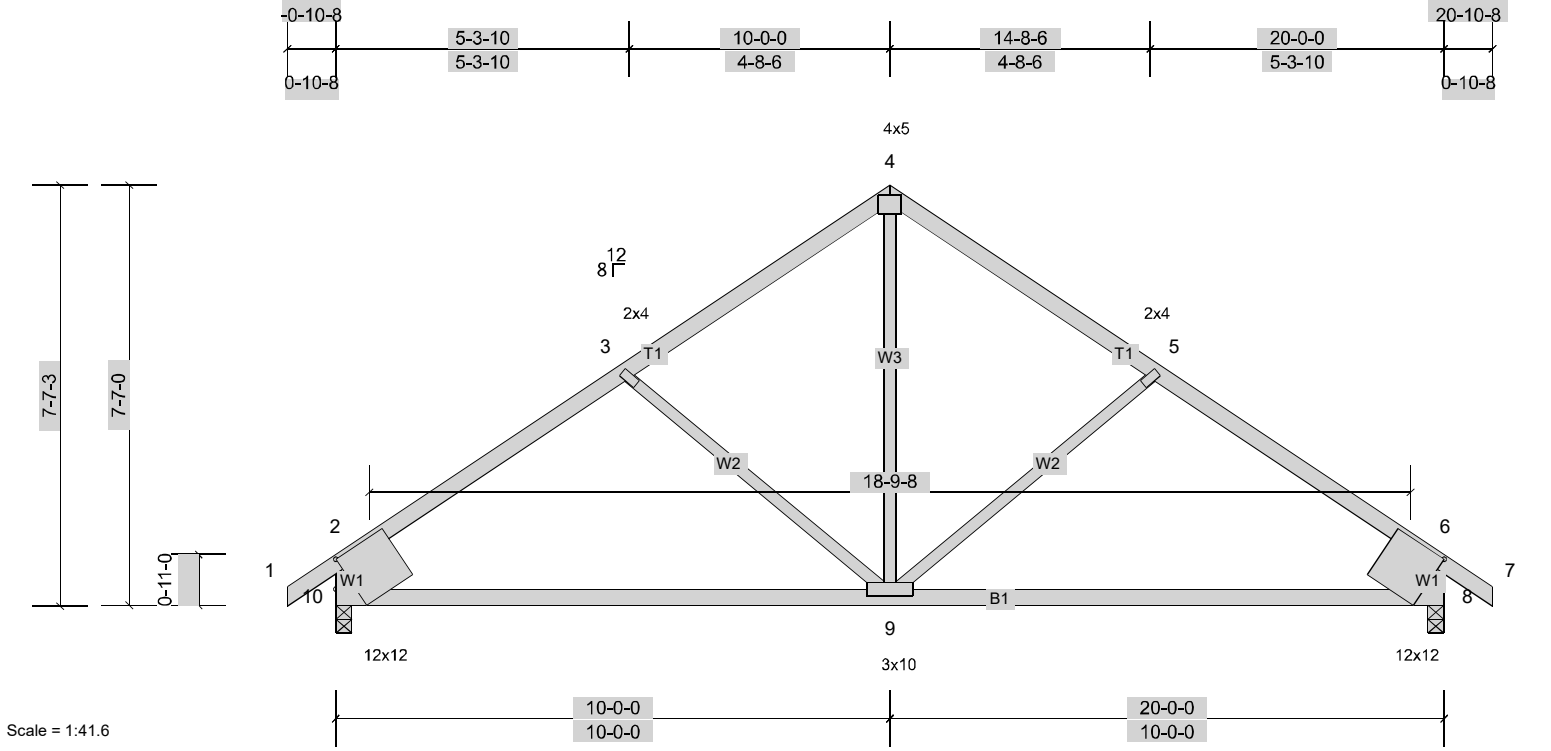


Plate Offsets (X, Y): [8:0-2-7,0-9-7], [10:0-3-10,0-5-6]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.17	9-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.35	9-10	>673	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	9-10	>999	240	Weight: 73 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except* W1:2x8 SP DSS

REACTIONS (lb/size) 8=955/0-3-8, (min. 0-1-8), 10=955/0-3-8, (min. 0-1-8)
 Max Horiz 10=-220 (LC 6)
 Max Uplift 8=-124 (LC 9), 10=-124 (LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1059/157, 3-4=-795/156, 4-5=-795/156, 5-6=-1059/157, 2-10=-851/174, 6-8=-851/174
 BOT CHORD 9-10=-136/798, 8-9=-36/760
 WEBS 4-9=-53/469

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 10 and 124 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-6 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

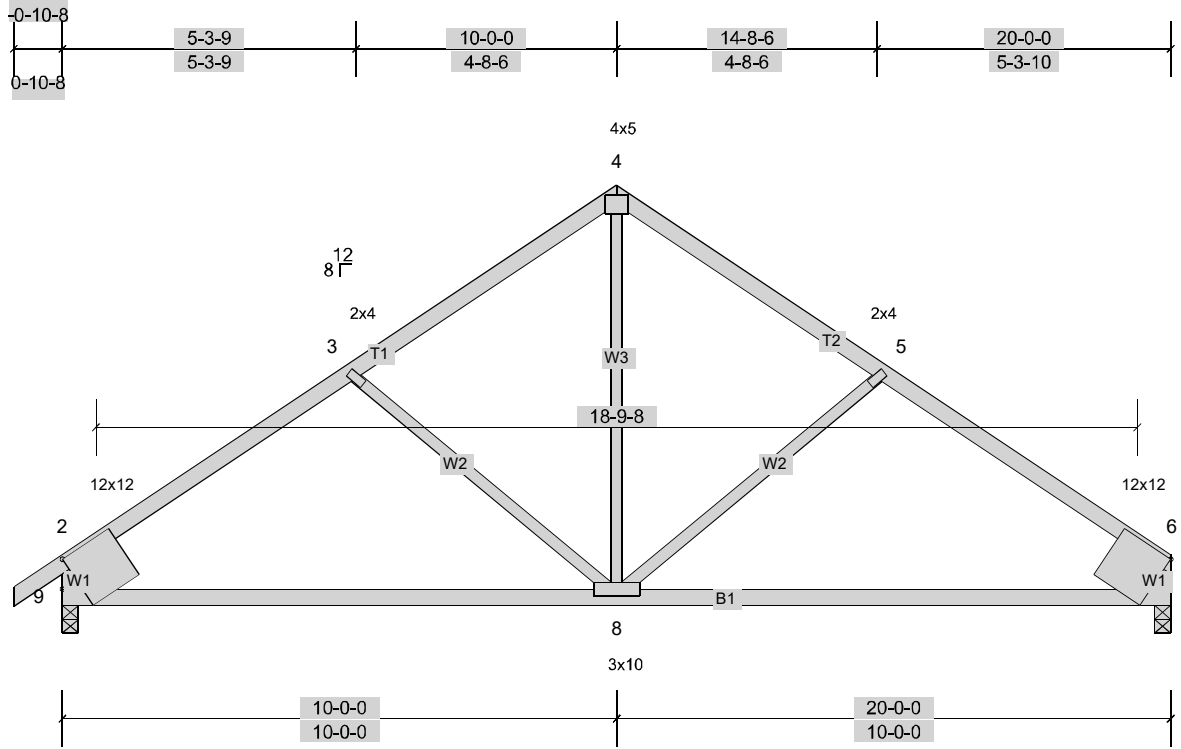
Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	E3	Common	7	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck

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Scale = 1:41.6

Plate Offsets (X, Y): [2:0-3-10,0-5-6], [6:Edge,0-9-7]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.17	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.36	8-9	>639	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.07	8-9	>999	240	Weight: 71 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except* W1:2x8 SP DSS

REACTIONS (lb/size) 7=870/0-3-8, (min. 0-1-8), 9=958/0-3-8, (min. 0-1-8)
Max Horiz 9=213 (LC 5)
Max Uplift 7=-97 (LC 9), 9=-124 (LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1060/156, 3-4=-796/156, 4-5=-796/155, 5-6=-1066/158, 2-9=-851/174, 6-7=-758/145
BOT CHORD 8-9=-149/789, 7-8=-65/776
WEBS 4-8=-53/469, 5-8=-261/213

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 9 and 97 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

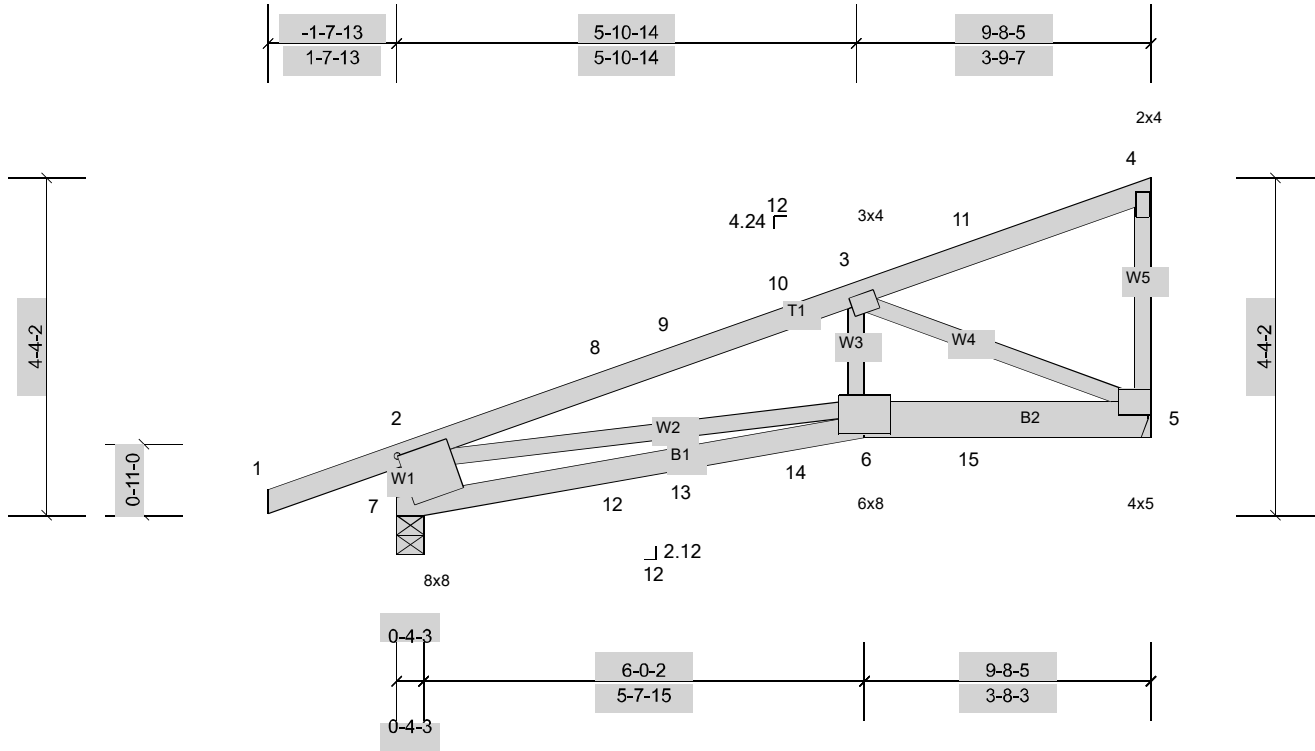
Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	J1	Diagonal Hip Girder	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck

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Scale = 1:29.6

Plate Offsets (X, Y): [7:0-3-0,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.04	6-7	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.09	6-7	>999	240	197/144
BCLL	0.0*	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.01	5	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	6-7	>999	240	Weight: 39 lb FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except* B2:2x6 SPF No.2
 WEBS 2x3 SPF No.2 *Except* W1:2x4 SPF No.2

REACTIONS (lb/size) 5=644/ Mechanical, (min. 0-1-8), 7=636/0-4-3, (min. 0-1-8)
 Max Horiz 7=172 (LC 5)
 Max Uplift 5=-221 (LC 8), 7=-204 (LC 4)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-7=-612/250, 2-8=-1001/293, 8-9=-929/295, 9-10=-916/297, 3-10=-873/299
 BOT CHORD 6-15=-339/888, 5-15=-341/895
 WEBS 2-6=-179/643, 3-6=-45/331, 3-5=-961/372

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) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 204 lb uplift at joint 7 and 221 lb uplift at joint 5.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 30 lb up at 2-8-5, 103 lb down and 67 lb up at 3-6-14, and 84 lb down and 63 lb up at 5-0-10, and 108 lb down and 85 lb up at 7-4-15 on top chord, and 9 lb down and 12 lb up at 2-8-5, 13 lb down at 3-6-14, 17 lb down and 16 lb up at 5-0-10, and 251 lb down and 93 lb up at 7-4-3, and 31 lb down at 7-4-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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, 2-4=-70, 6-7=-20, 5-6=-20
 Concentrated Loads (lb)
 Vert: 11=-30, 12=3, 13=-6, 14=-2, 15=-270

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-6-13 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

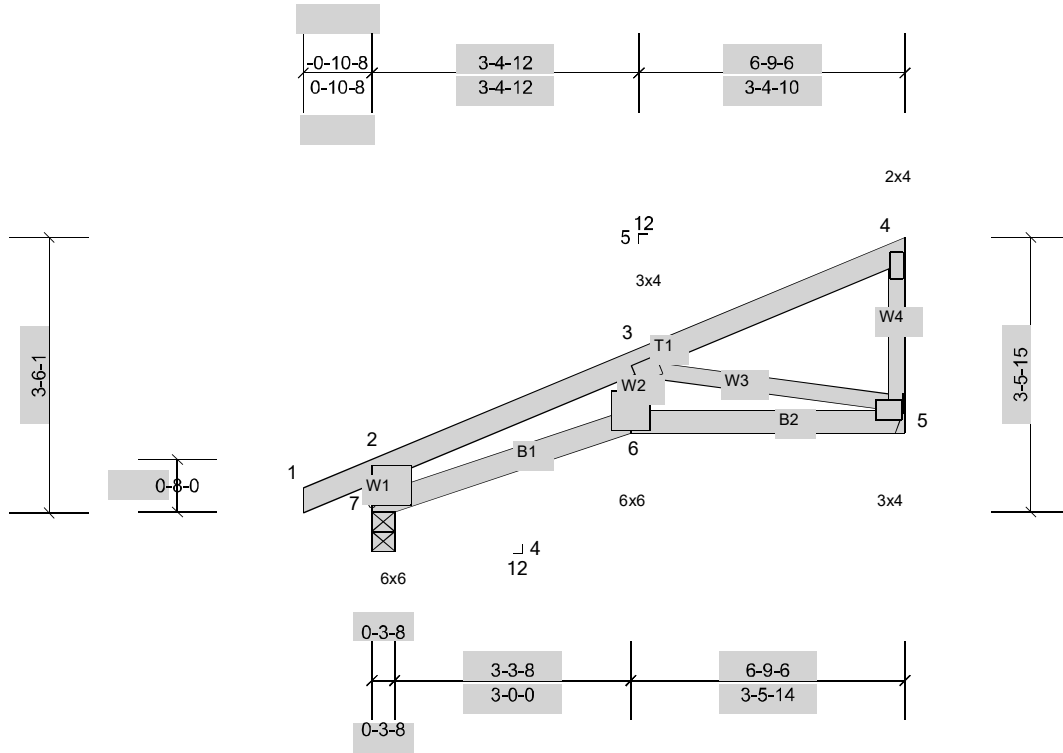
Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	J2	Jack-Closed	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck

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Scale = 1:29.3

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	0.33	Vert(LL)	-0.04	6-7	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.06	6	>999	240	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.03	5	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	6	>999	240	Weight: 22 lb FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except* W1:2x4 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.

REACTIONS (lb/size) 5=288/ Mechanical, (min. 0-1-8), 7=371/0-3-8, (min. 0-1-8)
 Max Horiz 7=128 (LC 5)
 Max Uplift 5=-71 (LC 8), 7=-63 (LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-7=-471/125, 2-3=-640/134
 BOT CHORD 6-7=-166/551, 5-6=-155/502
 WEBS 3-5=-495/177

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) The Fabrication Tolerance at joint 2 = 6%
- 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) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 7 and 71 lb uplift at joint 5.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

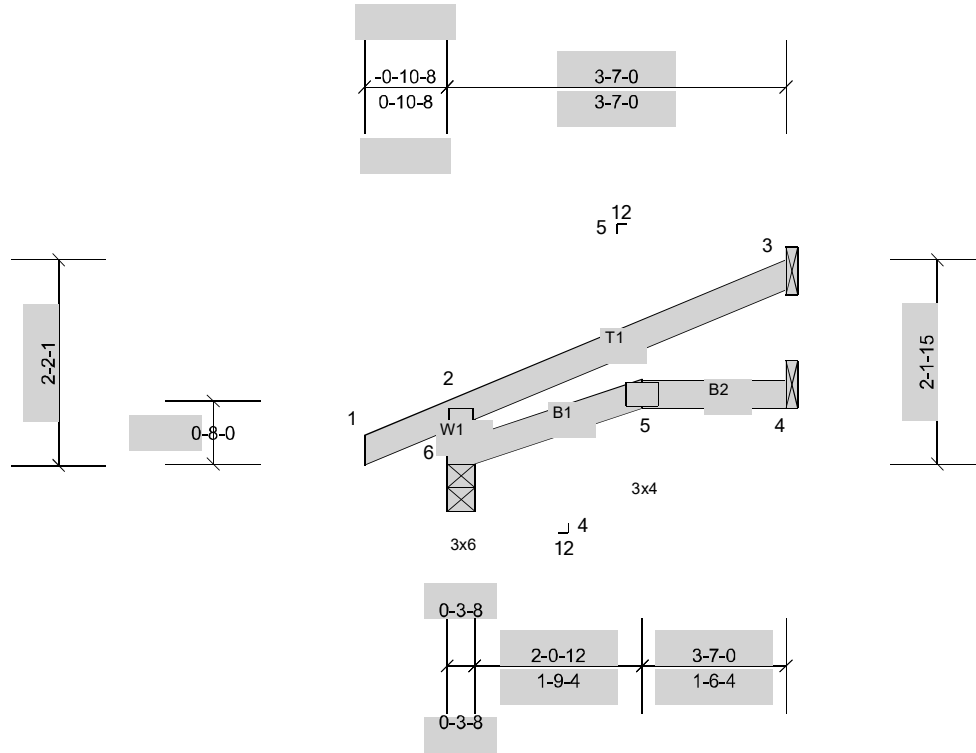
Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	J3	Jack-Open	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck

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Scale = 1:24.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	-0.01	5	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	5-6	>999	240	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	5-6	>999	240	Weight: 10 lb FT = 10%

LUMBER

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

BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 3-7-0 oc purlins, except end verticals.
Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 3=103/ Mechanical, (min. 0-1-8), 4=38/ Mechanical, (min. 0-1-8), 6=234/0-3-8, (min. 0-1-8)
Max Horiz 6=66 (LC 8)
Max Uplift 3=-54 (LC 8), 6=-35 (LC 8)
Max Grav 3=103 (LC 1), 4=63 (LC 3), 6=234 (LC 1)

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

- 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 6 and 54 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

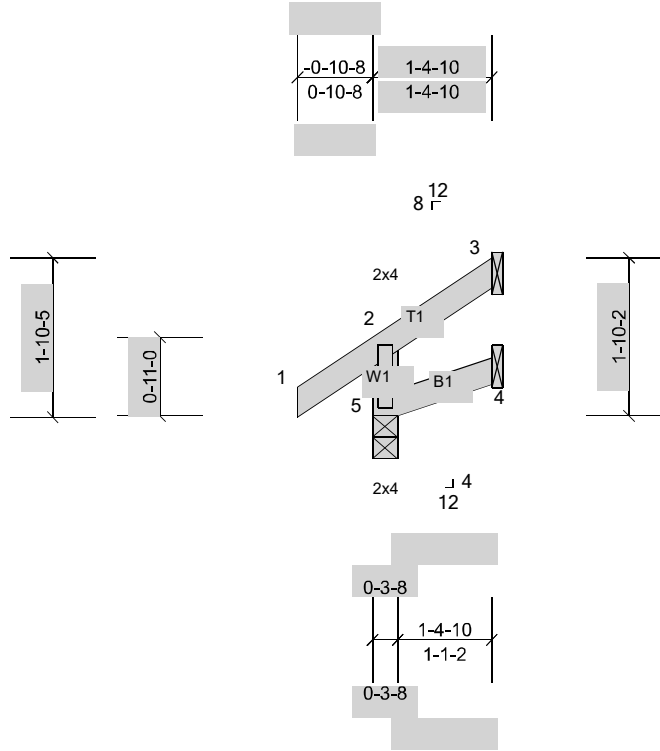
Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	J4	Jack-Open	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck

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Scale = 1:26.8

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
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a	Weight: 6 lb
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							FT = 10%

LUMBER

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

BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 1-4-10 oc purlins, except end verticals.
Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 3=20/ Mechanical, (min. 0-1-8), 4=6/ Mechanical, (min. 0-1-8), 5=156/0-3-8, (min. 0-1-8)
Max Horiz 5=47 (LC 8)
Max Uplift 3=-30 (LC 8), 4=-6 (LC 8), 5=-8 (LC 8)
Max Grav 3=29 (LC 15), 4=21 (LC 3), 5=156 (LC 1)

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

- 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 3, 6 lb uplift at joint 4 and 8 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

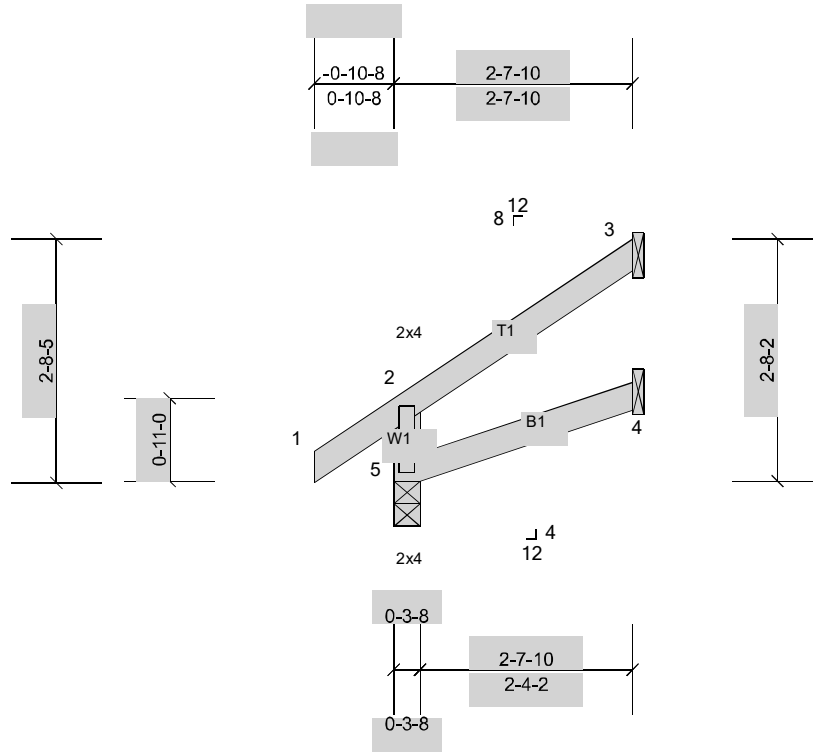
Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	J5	Jack-Open	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck

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Scale = 1:25.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	4-5	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	4-5	>999	240	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 9 lb FT = 10%

LUMBER

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

BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 2-7-10 oc purlins, except end verticals.
Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 3=70/ Mechanical, (min. 0-1-8), 4=25/ Mechanical, (min. 0-1-8), 5=196/0-3-8, (min. 0-1-8)
Max Horiz 5=80 (LC 8)
Max Uplift 3=-58 (LC 8), 4=-2 (LC 8), 5=-4 (LC 8)
Max Grav 3=78 (LC 15), 4=45 (LC 3), 5=196 (LC 1)

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

- 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 5, 58 lb uplift at joint 3 and 2 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

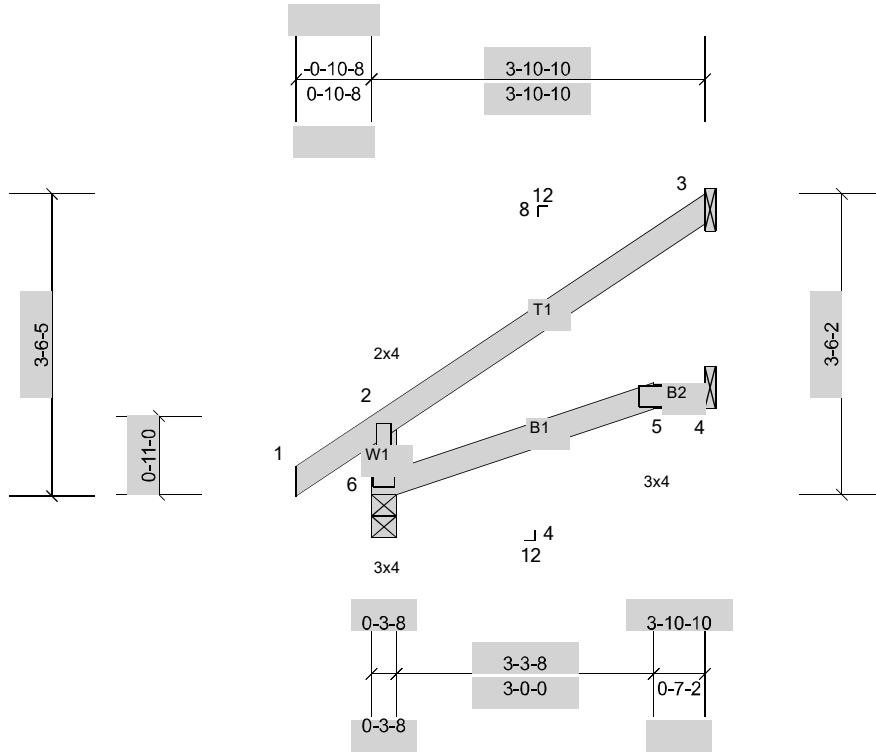
Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	J6	Jack-Open	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck

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Scale = 1:26.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.01	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	5-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	5-6	>999	240	Weight: 12 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 3-10-10 oc purlins, except end verticals.
Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 3=113/ Mechanical, (min. 0-1-8), 4=43/ Mechanical, (min. 0-1-8), 6=247/0-3-8, (min. 0-1-8)
Max Horiz 6=114 (LC 8)
Max Uplift 3=-83 (LC 8), 6=-3 (LC 8)
Max Grav 3=122 (LC 15), 4=69 (LC 3), 6=247 (LC 1)

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

- 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 6 and 83 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

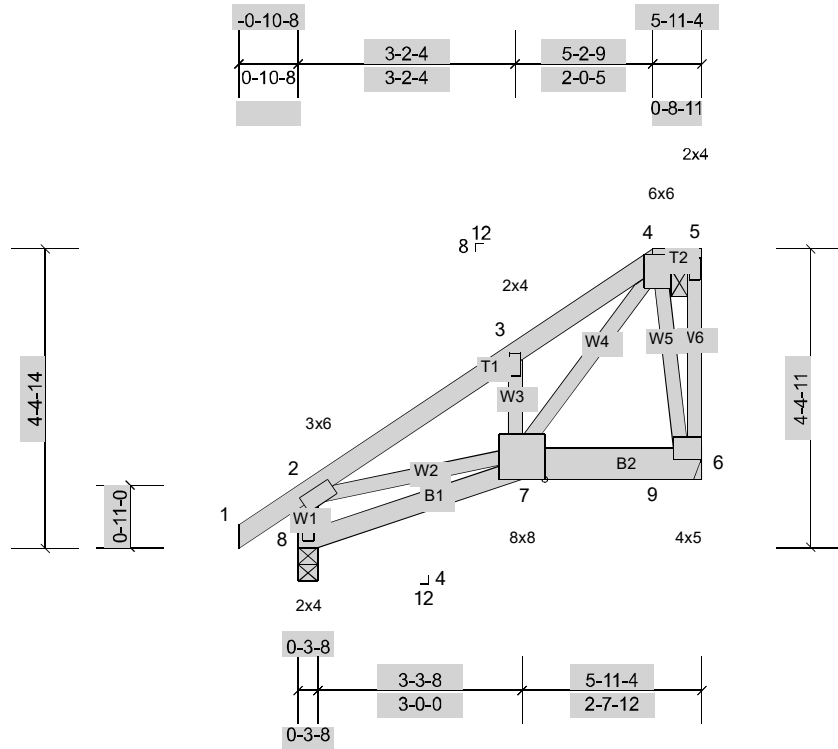
Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	J7	Jack-Closed Girder	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck

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Scale = 1:33.9

Plate Offsets (X, Y): [4:0-4-8,0-2-8]

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	0.11	Vert(LL)	-0.01	6-7	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.02	7-8	>999	240	197/144
BCLL	0.0*	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.00	6	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P		Wind(LL)	0.01	6-7	>999	240	Weight: 29 lb FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except* B2:2x6 SPF No.2
 WEBS 2x3 SPF No.2 *Except* W1:2x4 SPF No.2

REACTIONS (lb/size) 6=807/ Mechanical, (min. 0-1-8), 8=402/0-3-8, (min. 0-1-8)
 Max Horiz 8=128 (LC 5)
 Max Uplift 6=-247 (LC 5), 8=-28 (LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-8=-371/68, 2-3=-467/75, 3-4=-442/128
 WEBS 2-7=-14/341, 4-7=-151/531, 4-6=-301/84

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 8 and 247 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 626 lb down and 232 lb up at 5-2-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

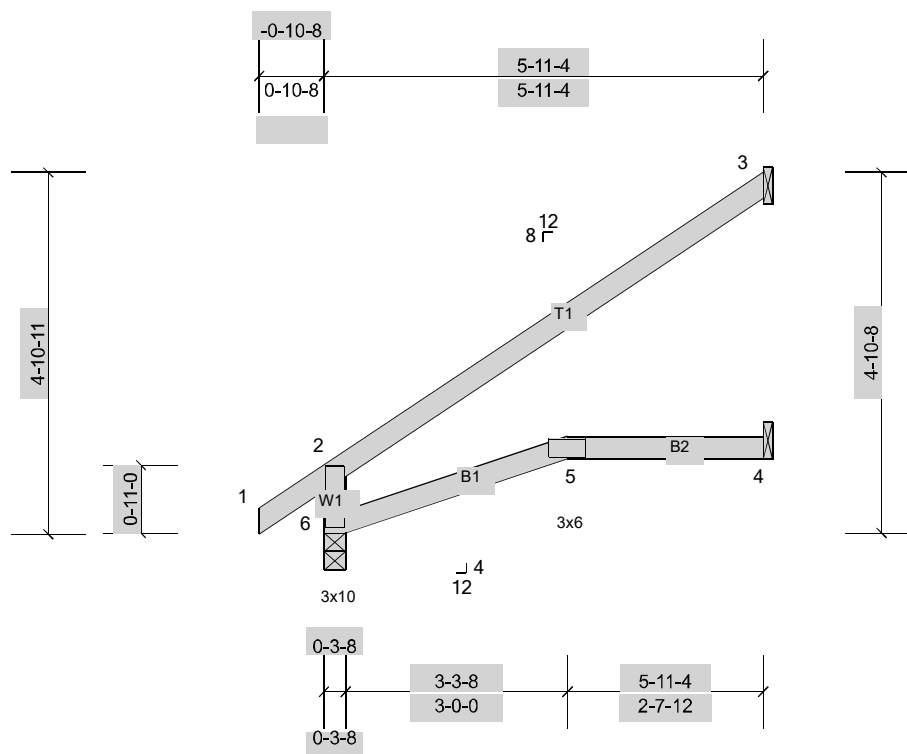
LOAD CASE(S)

- Standard
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-2=-70, 2-4=-70, 4-5=-70, 7-8=-20, 6-7=-20
 Concentrated Loads (lb)
 Vert: 9=-626

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals, and 2-0-0 oc purlins: 4-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.



Scale = 1:31.1

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	0.53	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.12	5-6	>584	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.06	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.06	5-6	>999	240	Weight: 17 lb	FT = 10%

LUMBER

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

REACTIONS (lb/size) 3=180/ Mechanical, (min. 0-1-8), 4=72/ Mechanical, (min. 0-1-8), 6=336/0-3-8, (min. 0-1-8)

Max Horiz 6=119 (LC 8)
Max Uplift 3=-77 (LC 8)
Max Grav 3=186 (LC 13), 4=109 (LC 3), 6=336 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-6=-293/28

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); 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) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals.
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BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

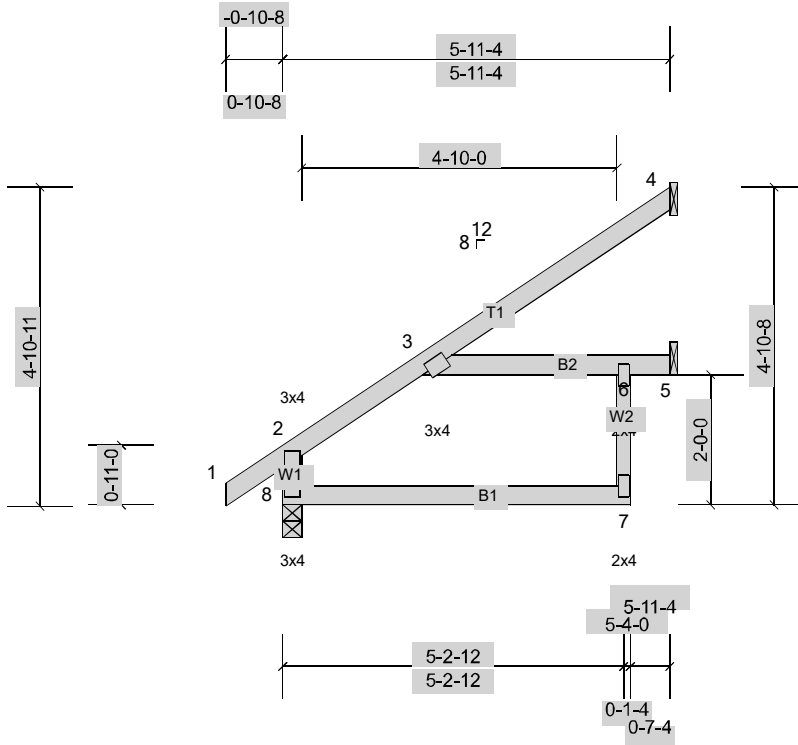
Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	J9	Jack-Open	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck

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Scale = 1:35.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.09	3-6	>755	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.17	3-6	>409	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.17	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.10	3	>709	240	Weight: 22 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except* W2:2x3 SPF No.2

REACTIONS (lb/size) 4=161/ Mechanical, (min. 0-1-8), 5=128/ Mechanical, (min. 0-1-8), 8=359/0-3-8, (min. 0-1-8)
 Max Horiz 8=119 (LC 8)
 Max Uplift 4=-58 (LC 8)
 Max Grav 4=167 (LC 13), 5=176 (LC 3), 8=359 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-8=-321/4

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); 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

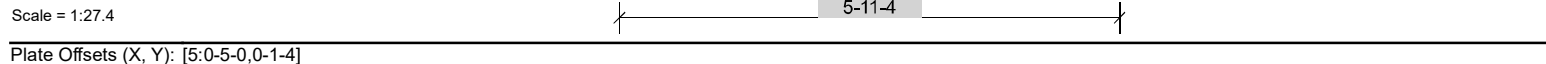
LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

Wheeler Lumber, Waverly, KS 66871, chuck Run: 8.4 S 0 Aug 16 2021 Print: 8.400 S Aug 16 2021 MiTek Industries, Inc. Wed Feb 09 15:37:28 Page: 1
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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 5-11-4 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS (lb/size) 3=179/ Mechanical, (min. 0-1-8), 4=72/ Mechanical, (min. 0-1-8), 5=336/0-3-8, (min. 0-1-8) Max Horiz 5=119 (LC 8) Max Uplift 3=-76 (LC 8) Max Grav 3=185 (LC 13), 4=109 (LC 3), 5=336 (LC 1)		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

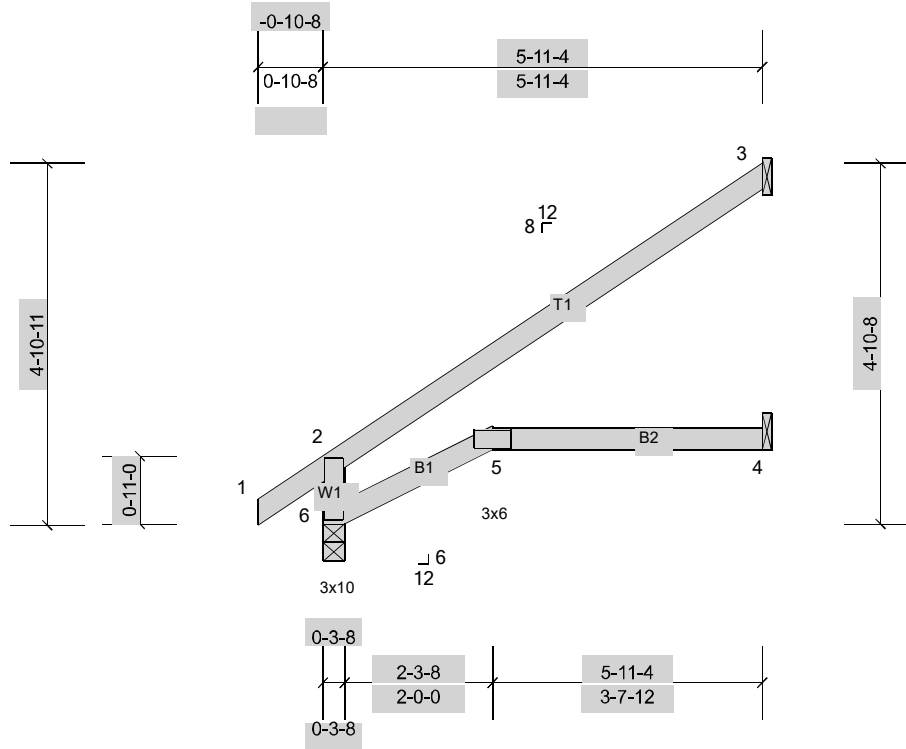
Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	J11	Jack-Open	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck

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Scale = 1:31.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.05	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.12	4-5	>588	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.06	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.06	5	>999	240	Weight: 17 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals.
Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 3=180/ Mechanical, (min. 0-1-8), 4=71/ Mechanical, (min. 0-1-8), 6=336/0-3-8, (min. 0-1-8)
Max Horiz 6=118 (LC 8)
Max Uplift 3=-77 (LC 8)
Max Grav 3=187 (LC 13), 4=109 (LC 3), 6=336 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-292/28

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); 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) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

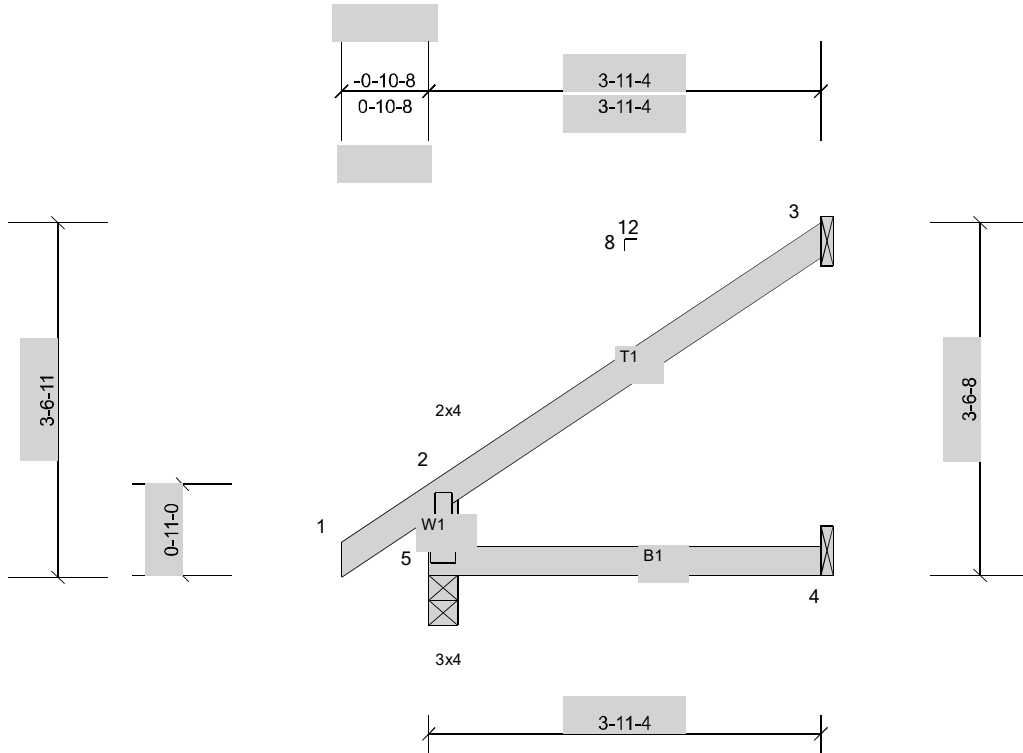
Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	J12	Jack-Open	13	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck

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Scale = 1:23.1

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.01	4-5	>999	360	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	4-5	>999	240	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	4-5	>999	240	Weight: 12 lb FT = 10%

LUMBER

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

BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 3-11-4 oc purlins, except end verticals.
Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=114/ Mechanical, (min. 0-1-8), 4=44/ Mechanical, (min. 0-1-8), 5=249/0-3-8, (min. 0-1-8)
Max Horiz 5=115 (LC 8)
Max Uplift 3=-83 (LC 8), 5=-4 (LC 8)
Max Grav 3=123 (LC 15), 4=71 (LC 3), 5=249 (LC 1)

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

- 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 5 and 83 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

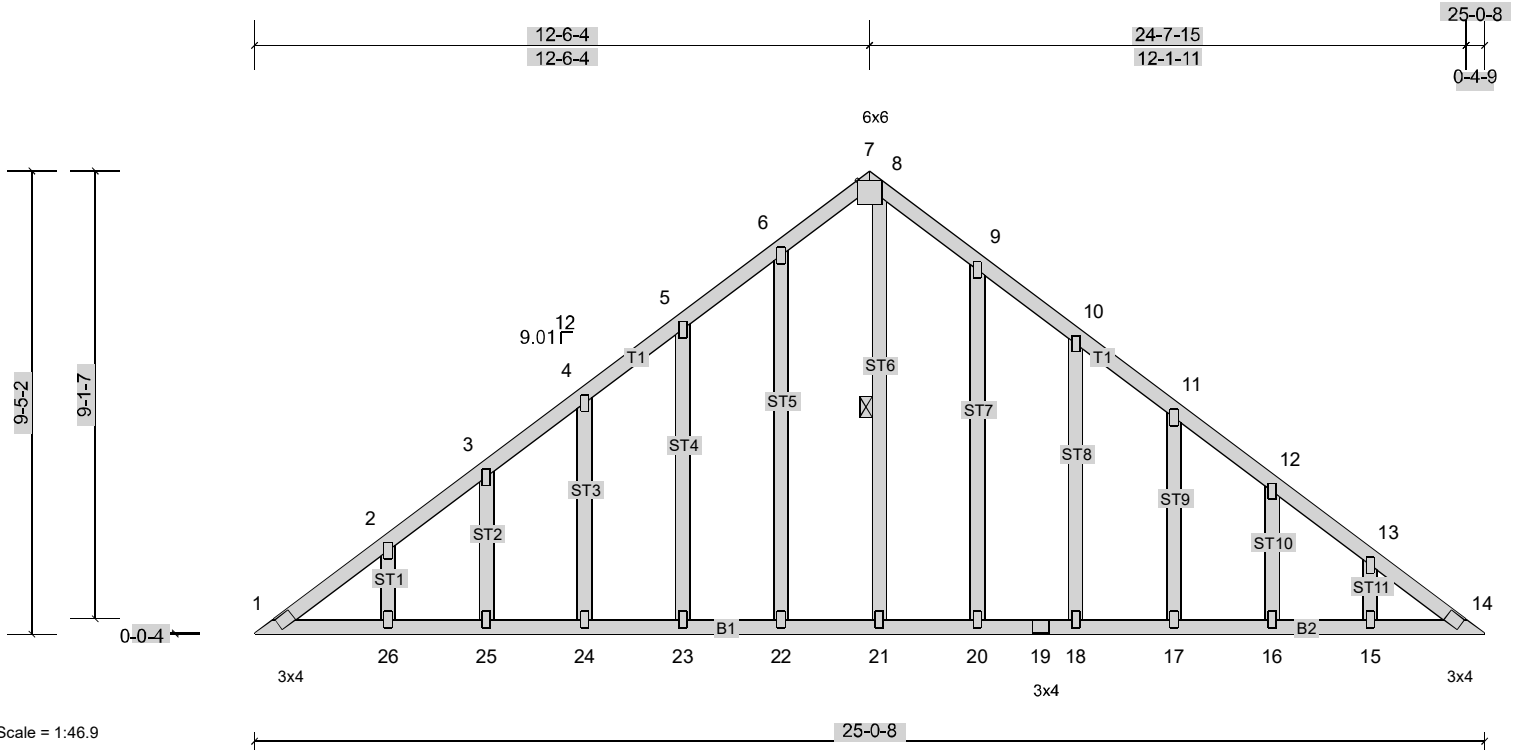
Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	LAY1	Lay-In Gable	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck

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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	0.07	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.01	14	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPJ2014	Matrix-S							Weight: 123 lb FT = 10%

LUMBER

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

BRACING

TOP CHORD
BOT CHORD
WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.
1 Row at midpt 8-21

REACTIONS

All bearings 25-0-8.
(lb) - Max Horiz 1=-238 (LC 4)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 14, 15, 16, 17, 18, 20, 22, 23, 24, 25, 26
Max Grav All reactions 250 (lb) or less at joint(s) 1, 14, 15, 16, 17, 18, 20, 21, 22, 23, 24, 25, 26

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-261/187

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 14, 26, 25, 24, 23, 22, 20, 18, 17, 16, 15.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

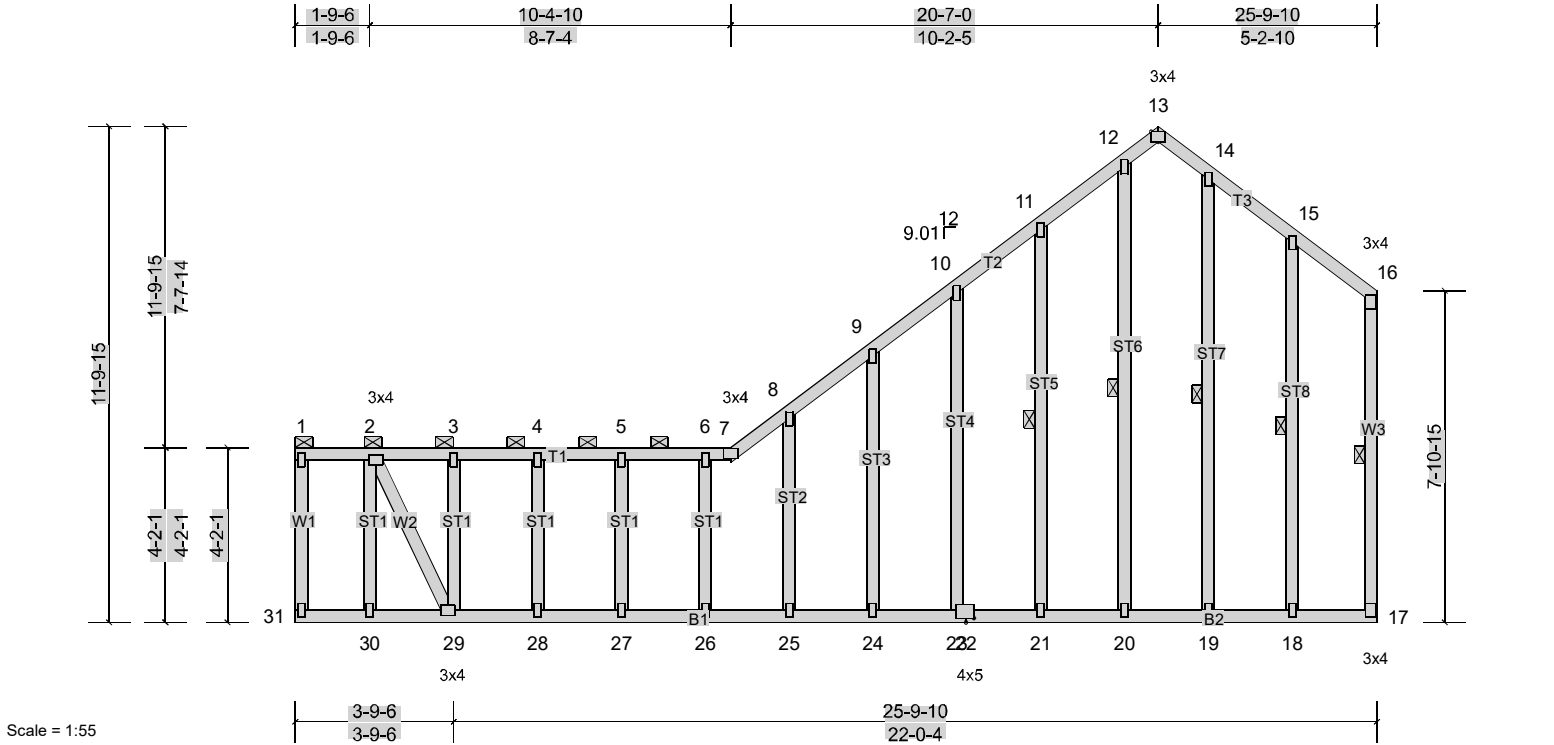
Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	LAY2	Lay-In Gable	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck

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Scale = 1:55

Plate Offsets (X, Y): [13:0-2-0,Edge], [22:0-2-4,0-1-4]

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	0.27	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	-0.01	17	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 167 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

REACTIONS

All bearings 25-9-10.
(lb) - Max Horiz 31=399 (LC 5)
Max Uplift All uplift 100 (lb) or less at joint(s) 17, 18, 19, 23, 24, 25, 27, 28, 31 except 20=-117 (LC 7), 21=-113 (LC 8), 26=-136 (LC 4), 29=-534 (LC 5), 30=-425 (LC 4)
Max Grav All reactions 250 (lb) or less at joint(s) 17, 18, 19, 20, 21, 23, 24, 25, 27, 28, 31 except 26=259 (LC 16), 29=473 (LC 6), 30=530 (LC 7)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-250/192, 3-4=-250/192, 4-5=-250/192, 5-6=-250/192, 6-7=-250/192, 7-8=-284/223, 8-9=-307/246, 9-10=-276/234, 10-11=-253/226, 11-12=-250/239
BOT CHORD 30-31=-375/304, 29-30=-375/304
WEBS 2-30=-513/475, 2-29=-528/626

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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
- 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 31, 17, 28, 27, 25, 24, 23, 19, 18 except (jt=lb) 30=425, 29=533, 26=136, 21=112, 20=116.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

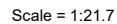
LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-7.
BOT CHORD Rigid ceiling directly applied or 9-7-15 oc bracing.
WEBS 1 Row at midpt 16-17, 11-21, 12-20, 14-19, 15-18

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

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LUMBER		BRACING
TOP CHORD	2x4 SPF No.2	TOP CHORD
BOT CHORD	2x4 SPF No.2	Structural wood sheathing directly applied or 5-4-0 oc purlins, except end verticals.
WEBS	2x3 SPF No.2	BOT CHORD
REACTIONS	(lb/size) 1=214/5-3-10, (min. 0-1-8), 3=214/5-3-10, (min. 0-1-8)	<u>Rigid ceiling directly applied or 10-0-0 oc bracing.</u>
	Max Horiz 1=126 (LC 5)	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
	Max Uplift 1=-18 (LC 8), 3=-62 (LC 8)	
	Max Grav 1=214 (LC 1), 3=230 (LC 15)	
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	

- 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 requires continuous bottom chord bearing.
- 4) Gable studs spaced at 4'-0" oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 1 and 62 lb uplift at joint 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

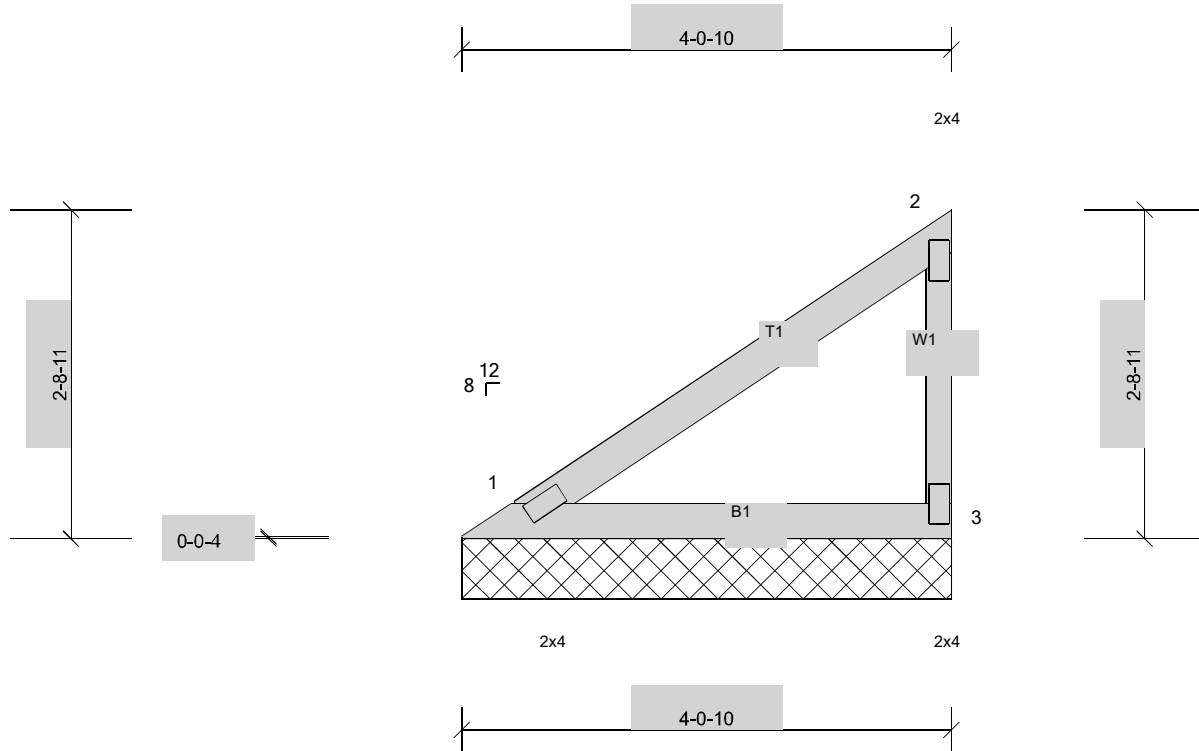
Job 210572	Truss V2	Truss Type Valley	Qty 1	Ply 1	Lot 36 OS Job Reference (optional)
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Wheeler Lumber, Waverly, KS 66871, chuck

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Scale = 1:19.1

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	0.23	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	n/a	-	n/a	n/a	
BCDL	10.0	Code	IRC2018/TP12014	Matrix-P							Weight: 11 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 4-1-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=158/4-0-10, (min. 0-1-8), 3=158/4-0-10, (min. 0-1-8)
Max Horiz 1=93 (LC 7)
Max Uplift 1=-13 (LC 8), 3=-46 (LC 8)
Max Grav 1=158 (LC 1), 3=169 (LC 15)

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

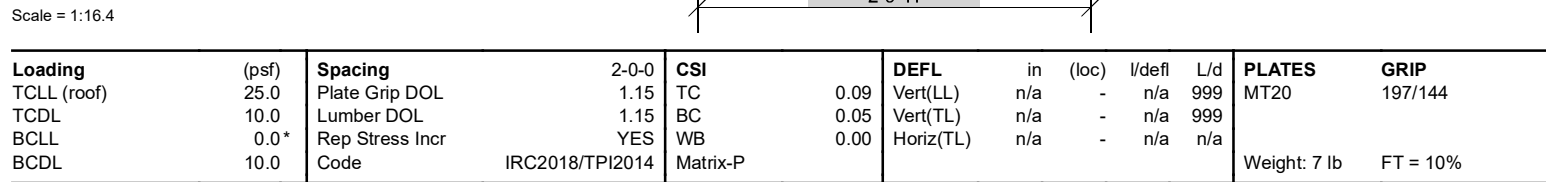
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

- 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
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 1 and 46 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Wheeler Lumber, Waverly, KS 66871, chuck Run: 8.4 S 0 Aug 16 2021 Print: 8.400 S Aug 16 2021 MiTek Industries, Inc. Wed Feb 09 15:37:28 Page: 1
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FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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 requires continuous bottom chord bearing.
- 4) Gable studs spaced at 4'-0" oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 1 and 29 lb uplift at joint 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

LOAD CASE(S) Standard

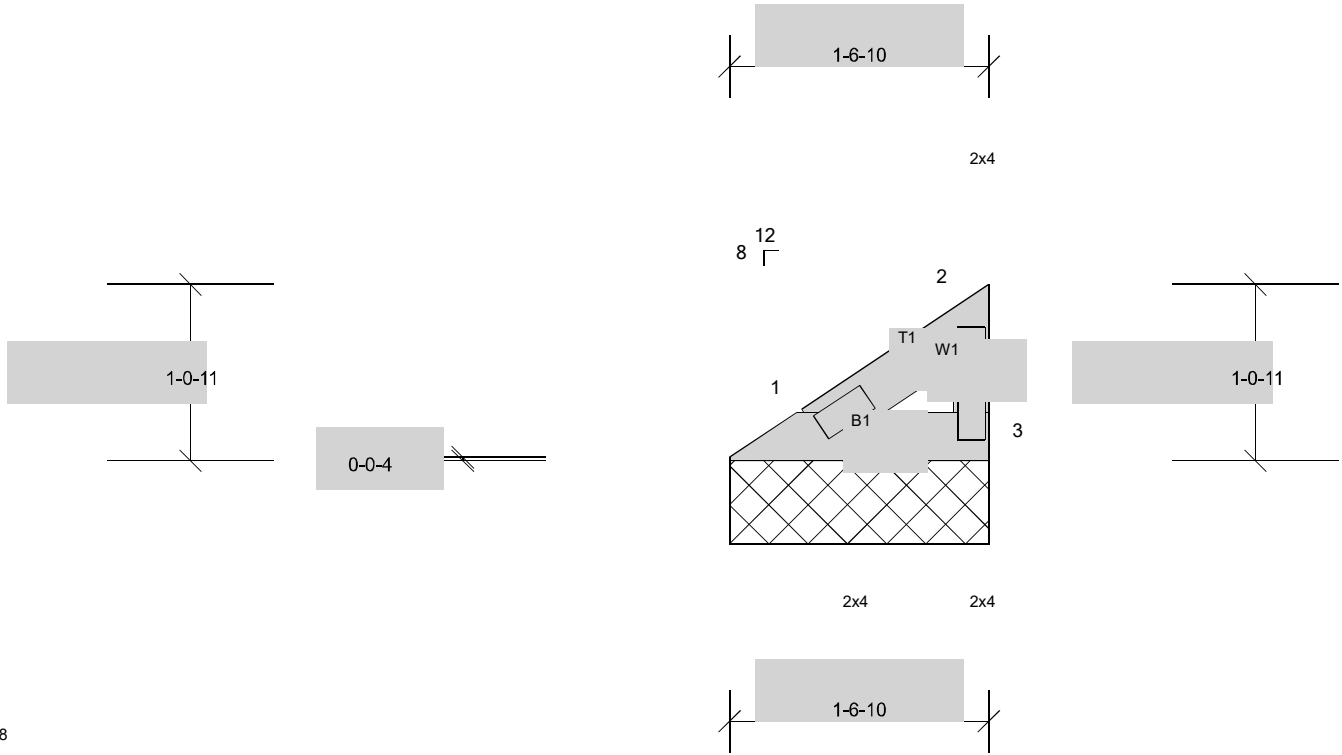
Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	V4	Valley	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck

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Scale = 1:13.8

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	0.02	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 4 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 1-7-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=45/1-6-10, (min. 0-1-8), 3=45/1-6-10, (min. 0-1-8)
Max Horiz 1=27 (LC 5)
Max Uplift 1=-4 (LC 8), 3=-13 (LC 8)
Max Grav 1=45 (LC 1), 3=48 (LC 15)

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

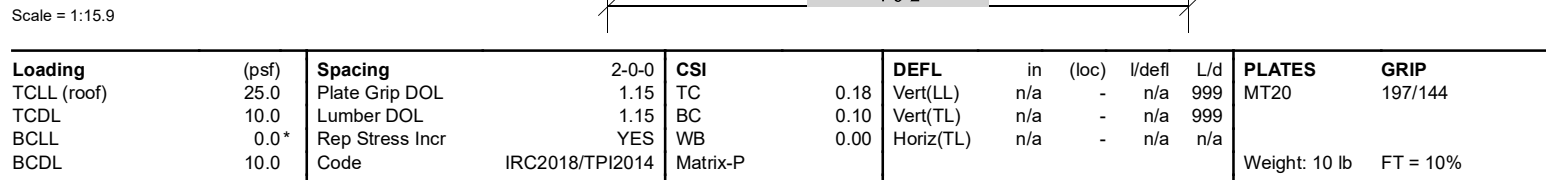
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

- 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
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 1 and 13 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Wheeler Lumber, Waverly, KS 66871, chuck Run: 8.4 S 0 Aug 16 2021 Print: 8.400 S Aug 16 2021 MiTek Industries, Inc. Wed Feb 09 15:37:28 Page: 1
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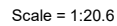
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=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 requires continuous bottom chord bearing.
- 4) Gable studs spaced at 4'-0" oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1 and 33 lb uplift at joint 3.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Wheeler Lumber, Waverly, KS 66871, chuck Run: 8.4 S 0 Aug 16 2021 Print: 8.400 S Aug 16 2021 MiTek Industries, Inc. Wed Feb 09 15:37:28 Page: 1
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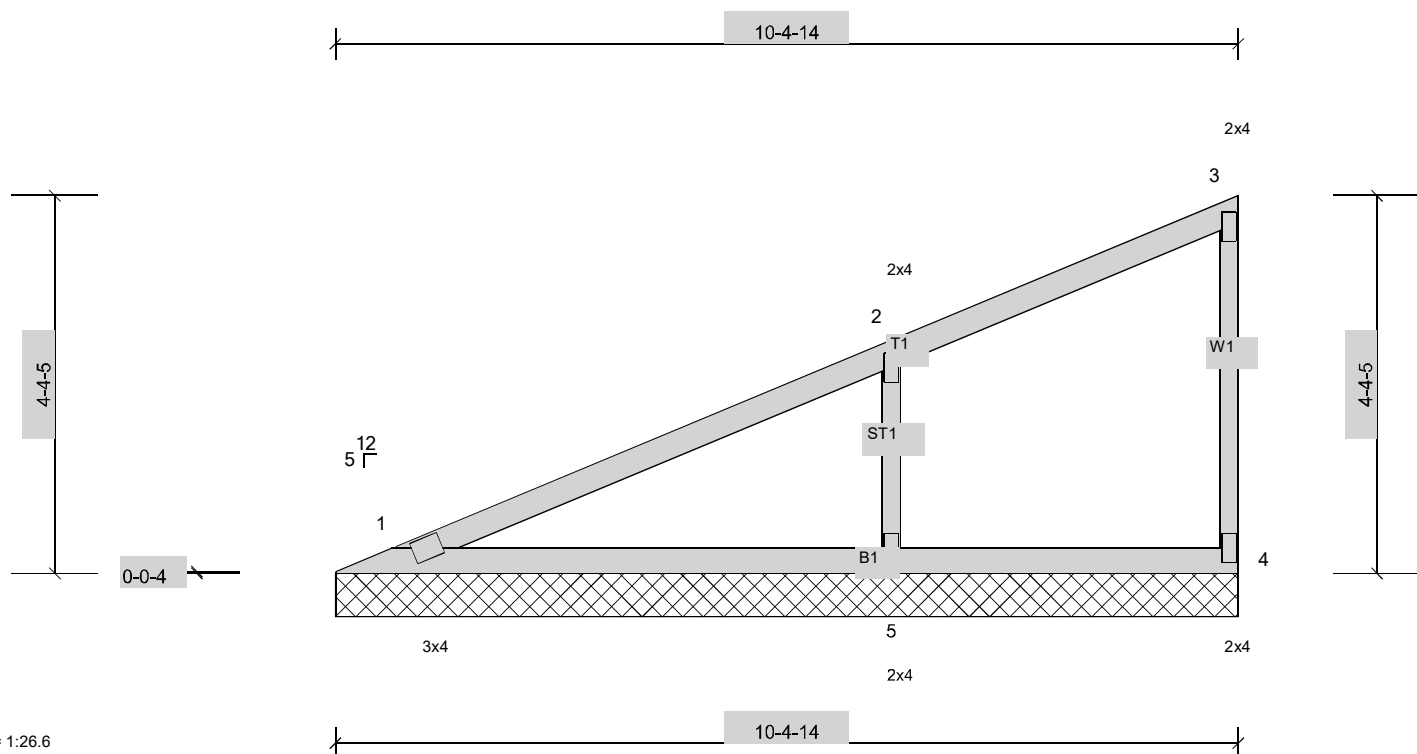
LUMBER		BRACING
TOP CHORD	2x4 SPF No.2	TOP CHORD
BOT CHORD	2x4 SPF No.2	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
WEBS	2x3 SPF No.2	BOT CHORD
OTHERS	2x3 SPF No.2	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS (lb/size)	1=60/7-2-8, (min. 0-1-8), 4=142/7-2-8, (min. 0-1-8), 5=374/7-2-8, (min. 0-1-8)	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=60/7-2-8, (min. 0-1-8), 4=142/7-2-8, (min. 0-1-8),
5=374/7-2-8, (min. 0-1-8)
Max Horiz 1=117 (LC 5)
Max Uplift 4=-27 (LC 8), 5=-99 (LC 8)
Max Grav 1=68 (LC 16), 4=142 (LC 1), 5=374 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-291/149

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=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 requires continuous bottom chord bearing.
- 4) Gable studs spaced at 4-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 4 and 99 lb uplift at joint 5.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Page: 1

Scale = 1:26.6

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)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 29 lb	FT = 10%

LUMBER

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

REACTIONS (lb/size) 1=207/10-4-14, (min. 0-1-8), 4=103/10-4-14, (min. 0-1-8),
5=553/10-4-14, (min. 0-1-8)

Max Horiz 1=175 (LC 7)

Max Uplift 1=-4 (LC 8), 4=-23 (LC 5), 5=-147 (LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 2-5=-417/204

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=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 requires continuous bottom chord bearing.
- 4) Gable studs spaced at 4'-0" oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 1, 23 lb uplift at joint 4 and 147 lb uplift at joint 5.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

BRACING

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

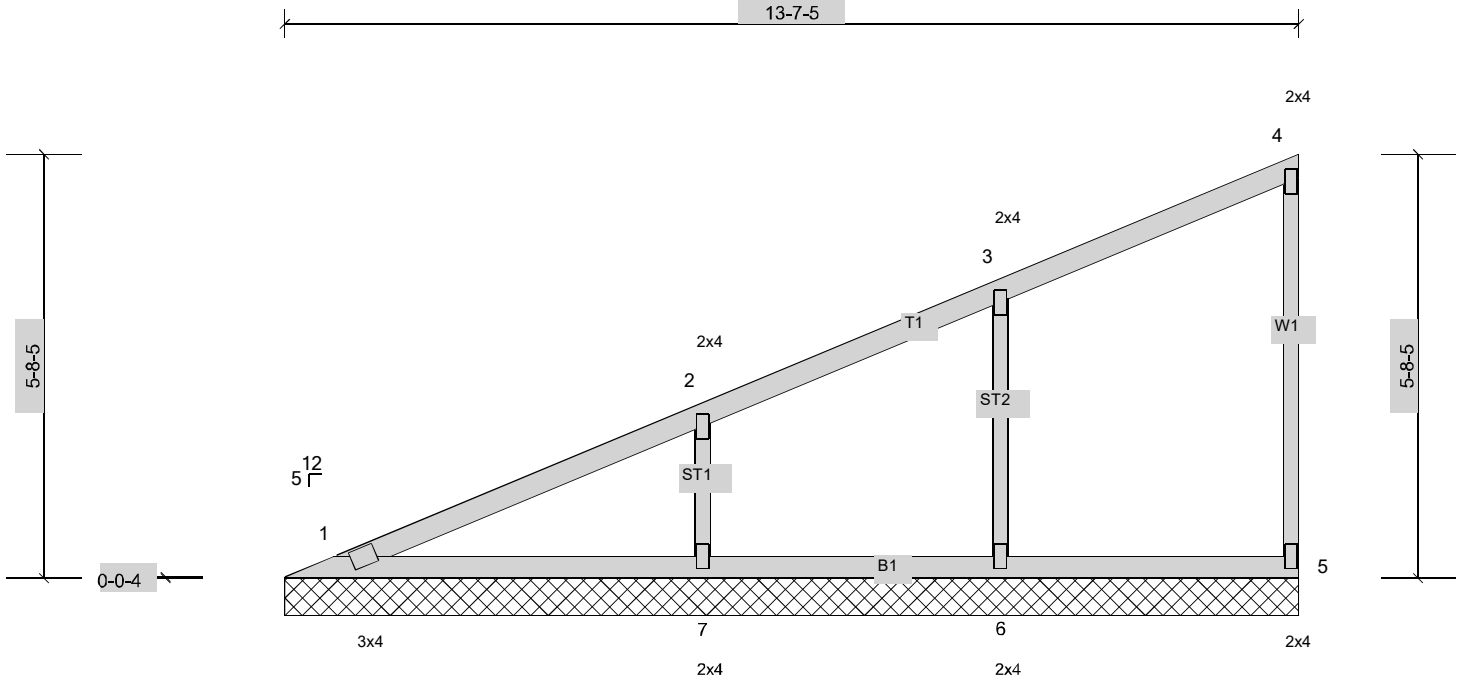
Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	V8	Valley	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck

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Scale = 1:30.9

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	0.29	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	5	n/a	n/a	Weight: 40 lb
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							FT = 10%

LUMBER

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

REACTIONS

All bearings 13-7-5.
(lb) - Max Horiz 1=233 (LC 5)
Max Uplift All uplift 100 (lb) or less at joint(s) 5, 6 except 7=-124 (LC 8)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=407 (LC 2), 7=471 (LC 2)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 3-6=-284/137, 2-7=-349/177

NOTES

- 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
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (jt=lb) 7=123.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

BRACING

TOP CHORD

BOT CHORD

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

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

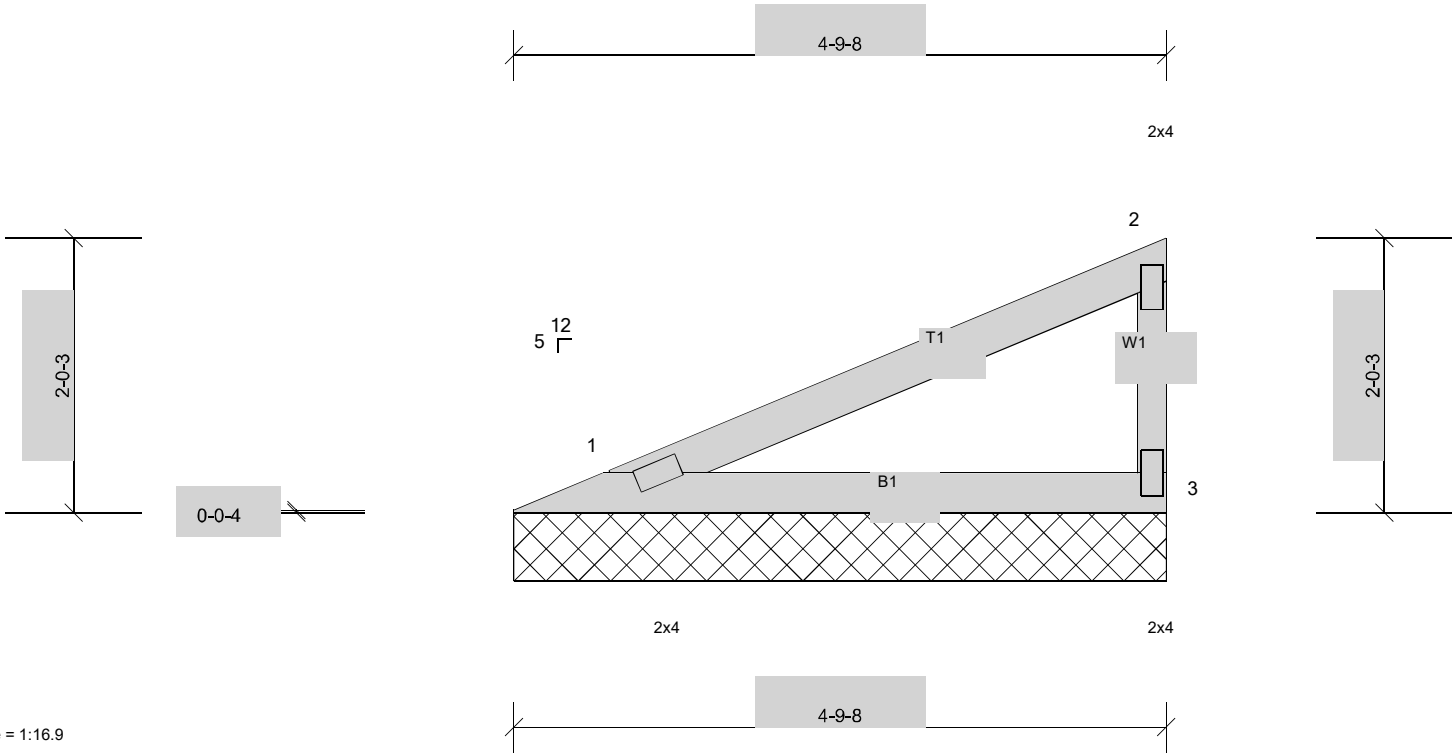
Job	Truss	Truss Type	Qty	Ply	Lot 36 OS
210572	V10	Valley	1	1	Job Reference (optional)

Wheeler Lumber, Waverly, KS 66871, chuck

Run: 8.4 S 0 Aug 16 2021 Print: 8.400 S Aug 16 2021 MiTek Industries, Inc. Wed Feb 09 15:37:29

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Scale = 1:16.9

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	0.29	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	n/a	-	n/a	n/a	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 12 lb FT = 10%

LUMBER

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

BRACING

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 4-10-1 oc purlins, except end verticals.

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=179/4-9-8, (min. 0-1-8), 3=179/4-9-8, (min. 0-1-8)
Max Horiz 1=73 (LC 5)
Max Uplift 1=-26 (LC 8), 3=-41 (LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

- 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
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 1 and 41 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard