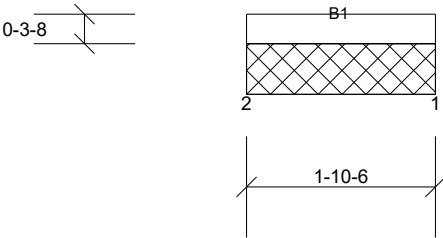
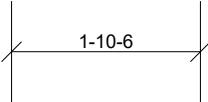


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
4173683	24V	Roof Special	88	1	



Scale = 1:22.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	0.90	TC	0.00	Vert(LL)	n/a	-	n/a	999		
TCDL	7.0	Plate Metal DOL	0.90	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Lumber DOL	0.90	WB	0.00	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	10.0	Rep Stress Incr	YES	Matrix-P								
		Code	IRC2021/TPI2014								Weight: 2 lb	FT = 10%

LUMBER
TOP CHORD
BOT CHORD 2x4 HF No.2

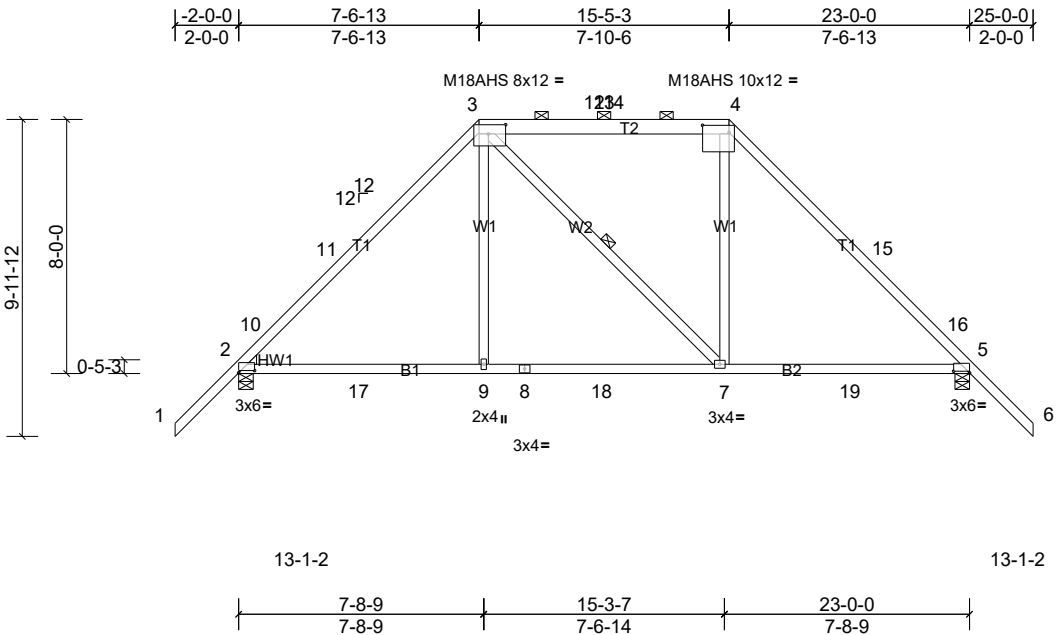
BRACING
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.
MiTek recommends that Stabilizers and
required cross bracing be installed during
truss erection, in accordance with Stabilizer
Installation guide.

REACTIONS (lb/size) 1=19/1-10-6, (min. 0-1-8),
2=19/1-10-6, (min. 0-1-8)
Max Grav 1=37 (LC 3), 2=37 (LC 3)
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250
(lb) or less except when shown.

NOTES
1) As requested, plates have not been designed to provide
for placement tolerances or rough handling and erection
conditions. It is the responsibility of the fabricator to
increase plate sizes to account for these factors.
2) Gable requires continuous bottom chord bearing.
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.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
4173683	A01	Piggyback Base	5	1	



Scale = 1:70.8
Plate Offsets (X, Y): [2:0-6-0,0-0-14], [3:0-6-8,0-3-8], [4:0-10-0,0-2-12], [5:0-6-0,0-0-10]

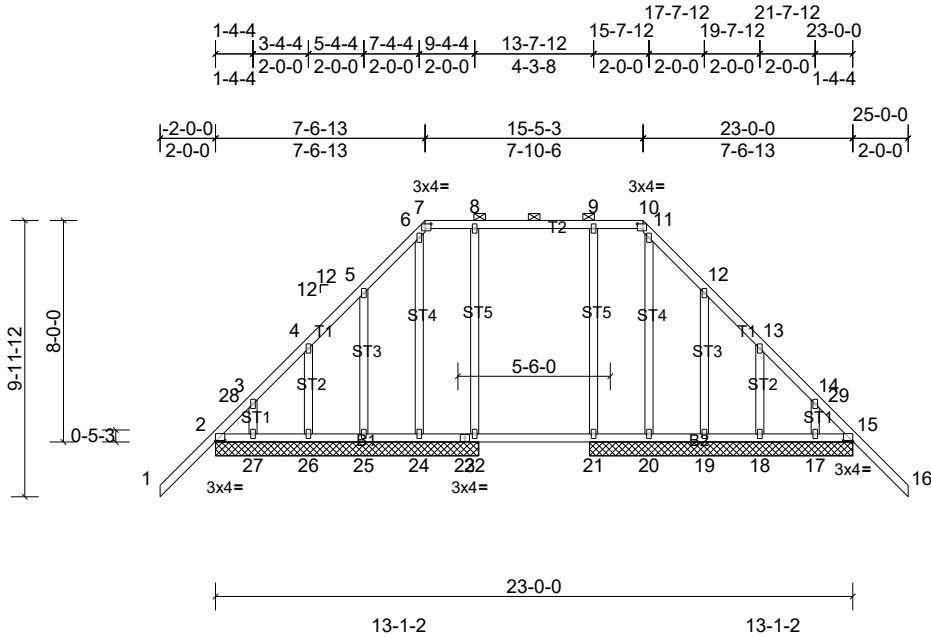
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.16	5-7	>999	240	M18AHS	145/140
TCDL	7.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.26	5-7	>999	180	MT20	185/148
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-SH							Weight: 105 lb	FT = 10%

- LUMBER**
TOP CHORD 2x4 HF No.2 *Except* T2:2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2
WEDGE Left: 2x4 HF No.2
- BRACING**
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-7

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
- REACTIONS** (lb/size) 2=1089/0-5-8, (min. 0-1-15), 5=1089/0-5-8, (min. 0-1-15)
Max Horiz 2=-176 (LC 10)
Max Uplift 2=-81 (LC 12), 5=-81 (LC 13)
Max Grav 2=1181 (LC 2), 5=1172 (LC 2)
- FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-1300/22, 10-11=-1185/33, 3-11=-1165/62, 3-12=-836/122, 12-13=-836/122, 13-14=-836/122, 4-14=-836/122, 4-15=-1151/62, 15-16=-1170/33, 5-16=-1285/22
BOT CHORD 2-17=-38/790, 9-17=-38/790, 8-9=-36/797, 8-18=-36/797, 7-18=-36/797, 7-19=0/776, 5-19=0/776
WEBS 3-9=0/444, 4-7=0/415
- 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=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 7-6-13, Exterior(2R) 7-6-13 to 11-9-11, Interior (1) 11-9-11 to 15-5-3, Exterior(2R) 15-5-3 to 19-8-2, Interior (1) 19-8-2 to 25-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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 BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 2 and 81 lb uplift at joint 5.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
4173683	A02	Piggyback Base Supported Gable	2	1	



Scale = 1:68.5

Plate Offsets (X, Y): [2:0-4-0,0-0-6], [7:0-2-8,0-2-0], [10:0-2-8,0-2-0], [15:0-4-0,0-0-6]

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	0.28	Vert(LL)	-0.02	21-22	>999	240	MT20	185/148
TCDL	7.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.02	21-22	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.01	15	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-SH							Weight: 125 lb	FT = 10%

LUMBER

TOP CHORD 2x4 HF No.2

BOT CHORD 2x4 HF No.2

OTHERS 2x4 HF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-10.

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.

6) Gable studs spaced at 2-0-0 oc.

7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 2, 15, 22, 21, 24, 25, 26, 19, 18.

10) 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

REACTIONS All bearings 9-6-0.

(lb) - Max Horiz 2=-177 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 15, 18, 19, 21, 22, 24, 25, 26

Max Grav All reactions 250 (lb) or less at joint (s) 17, 18, 19, 20, 24, 25, 26, 27 except 2=287 (LC 1), 15=287 (LC 1), 21=368 (LC 29), 22=368 (LC 30)

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

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=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -2-0-0 to 1-0-0, Exterior(2N) 1-0-0 to 7-6-13, Corner(3R) 7-6-13 to 10-6-13, Exterior(2N) 10-6-13 to 15-5-3, Corner(3R) 15-5-3 to 18-5-3, Exterior (2N) 18-5-3 to 25-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

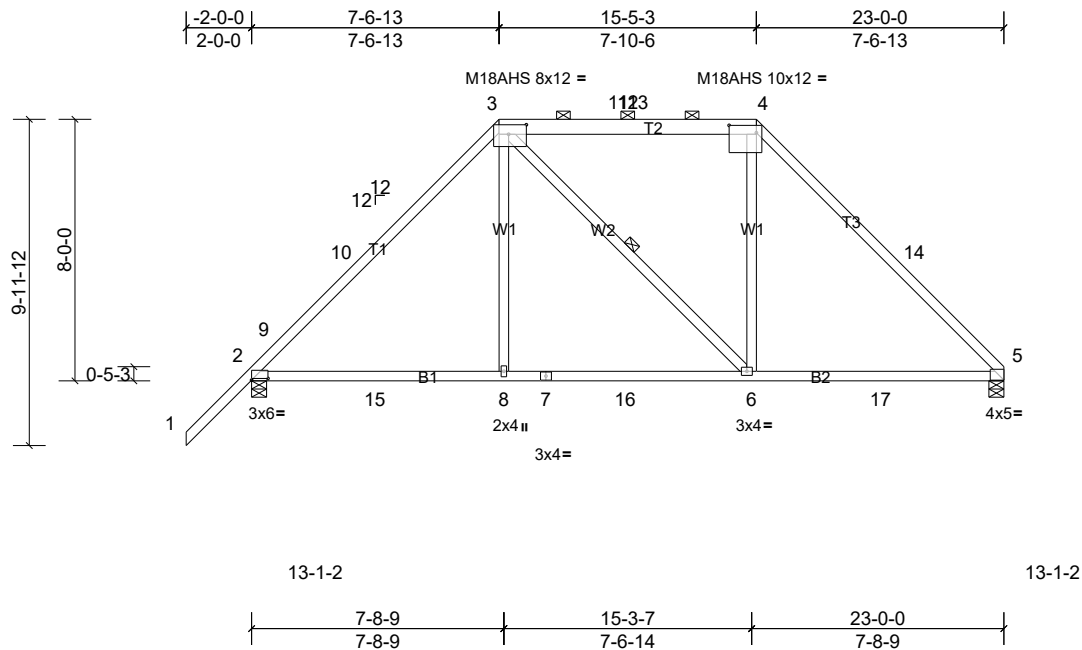
4) Provide adequate drainage to prevent water ponding.

5) All plates are 2x4 (||) MT20 unless otherwise indicated.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 7-6-13, Exterior(2R) 7-6-13 to 11-9-11, Interior (1) 11-9-11 to 15-5-3, Exterior(2R) 15-5-3 to 19-8-2, Interior (1) 19-8-2 to 22-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Job	Truss	Truss Type	Qty	Ply	
4173683	A04	Piggyback Base	4	1	Job Reference (optional)

Run: 8.82 S Sep 25 2024 Print: 8.820 S Sep 25 2024 MiTek Industries, Inc. Wed Jan 22 09:34:36 Page: 1
ID:WYGkq6YkrlKYG1gWnxKk_yqAsL-xSww1NdwFURsBDxDbetgBWzWDliHV4l5eOYm1VzspZH



Scale = 1:69.3

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

[illegible]

LUMBER

TOP CHORD 2x4 HF No.2 *Except* T2:2x6 DF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (6-0-0 max.): 3-4.

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

WEBS	1 Row at midpt	3-6
------	----------------	-----

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

- 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 BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 5 and 82 lb uplift at joint 2.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

REACTIONS

(lb/size) 2=1096/0-5-8, (min. 0-1-15),
5=940/0-5-8, (min. 0-1-12)
Max Horiz 2=164 (LC 9)
Max Uplift 2=-82 (LC 12), 5=-41 (LC 13)
Max Grav 2=1187 (LC 2), 5=1051 (LC 2)

FORCES

TOP CHORD 2-9=-1308/27, 9-10=-1193/41, 3-10=-1173/67,
3-11=-851/132, 11-12=-851/132,
12-13=-851/132, 4-13=-851/132,
4-14=-1170/80, 5-14=-1300/54

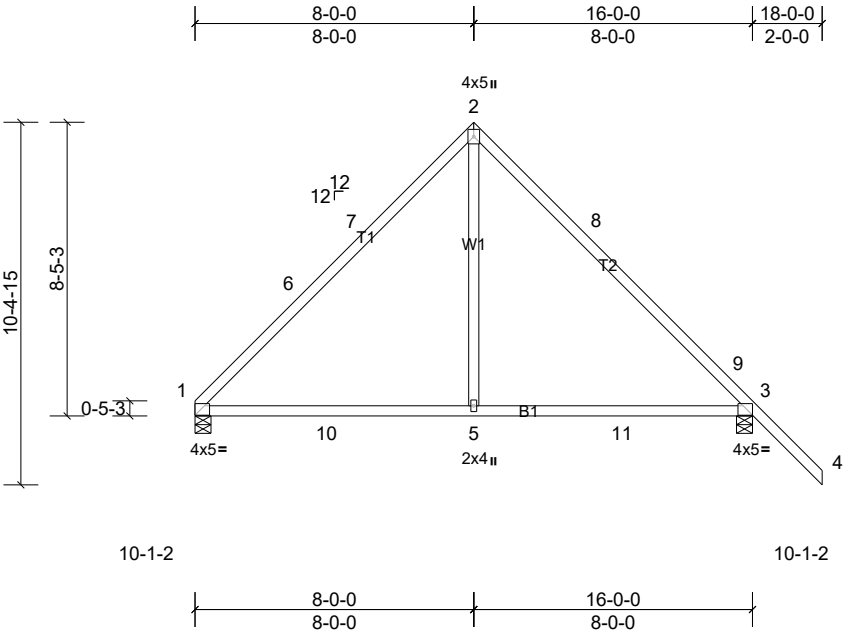
BOT CHORD 2-15=-52/782, 8-15=-52/782, 7-8=-51/789,
7-16=-51/789, 6-16=-51/789, 6-17=0/781,
5-17=0/781

WEBS 3-8=0/443, 4-6=0/417

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=4.2psf; BCDF=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 7-6-13, Exterior(2R) 7-6-13 to 11-9-11, Interior (1) 11-9-11 to 15-5-3, Exterior(2R) 15-5-3 to 19-8-2, Interior (1) 19-8-2 to 22-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
4173683	B01	Common	13	1	



Scale = 1:61.3

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	0.92	Vert(LL)	-0.21	1-5	>874	240	MT20	185/148
TCDL	7.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.33	1-5	>565	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-SH							Weight: 58 lb	FT = 10%

LUMBER LOAD CASE(S) Standard

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

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

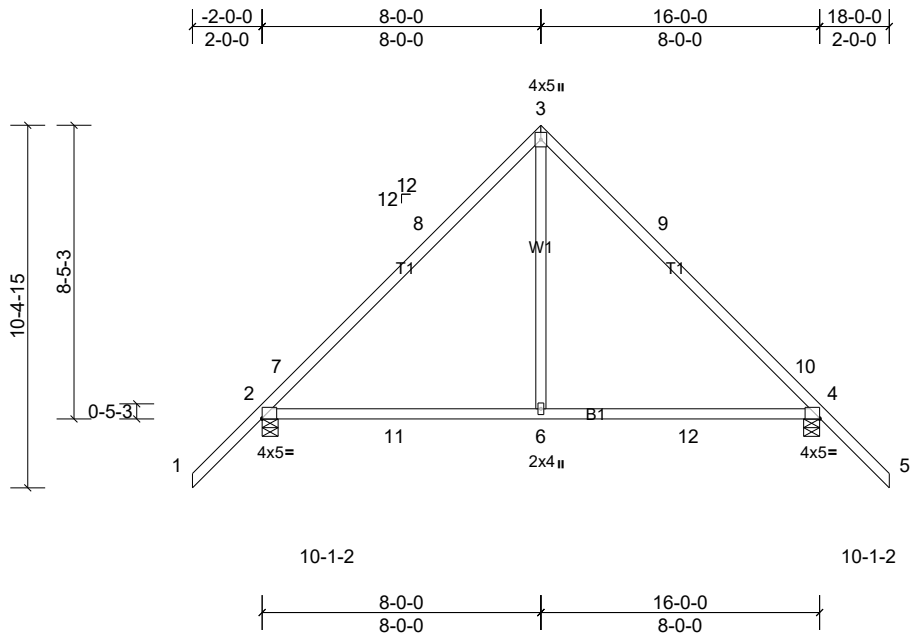
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS	(lb/size)	1=643/0-5-8, (min. 0-1-8), 3=806/0-5-8, (min. 0-1-8)
	Max Horiz	1=-172 (LC 8)
	Max Uplift	1=-13 (LC 13), 3=-56 (LC 13)
	Max Grav	1=735 (LC 22), 3=875 (LC 22)

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-6=-851/58, 6-7=-710/65, 2-7=-674/87, 2-8=-677/88, 8-9=-826/65, 3-9=-854/41
BOT CHORD	1-10=0/505, 5-10=0/505, 5-11=0/505, 3-11=0/505
WEBS	2-5=0/523

- NOTES
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior (1) 11-0-0 to 18-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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 13 lb uplift at joint 1 and 56 lb uplift at joint 3.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
4173683	B02	Common	1	1	



Scale = 1:61.3

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

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	0.87	Vert(LL)	-0.17	4-6	>999	240	MT20	185/148
TCDL	7.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.27	4-6	>684	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-SH							Weight: 61 lb	FT = 10%

LUMBER

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

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 2 and 54 lb uplift at joint 4.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied.
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.

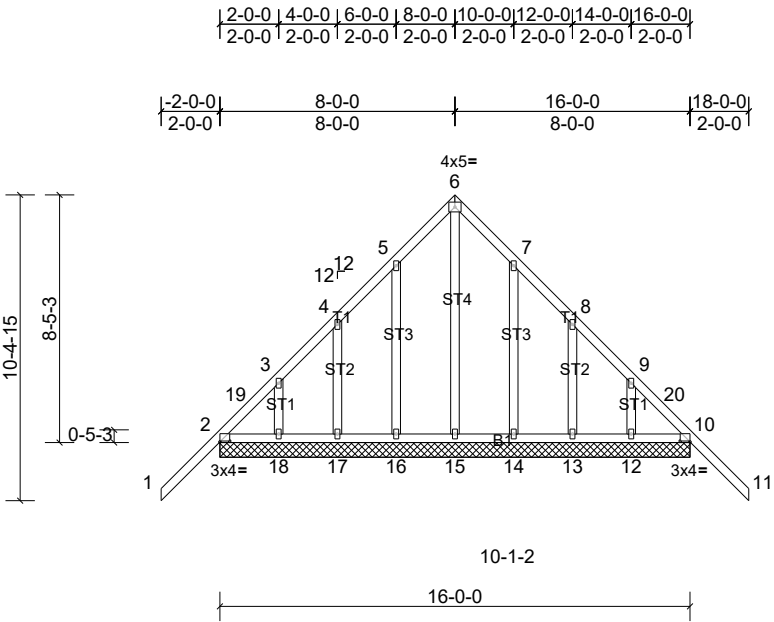
REACTIONS (lb/size) 2=795/0-5-8, (min. 0-1-8),
4=795/0-5-8, (min. 0-1-8)
Max Horiz 2=-184 (LC 10)
Max Uplift 2=-54 (LC 12), 4=-54 (LC 13)
Max Grav 2=869 (LC 21), 4=869 (LC 22)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-837/31, 7-8=-808/55, 3-8=-660/78,
3-9=-660/78, 9-10=-808/55, 4-10=-837/31
BOT CHORD 2-11=0/492, 6-11=0/492, 6-12=0/492,
4-12=0/492
WEBS 3-6=0/512

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior (1) 11-0-0 to 18-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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.

Job	Truss	Truss Type	Qty	Ply	
4173683	B03	Common Supported Gable	2	1	Job Reference (optional)



Scale = 1:64.2

Plate Offsets (X, Y): [2:0-4-0,0-0-6], [10:0-4-0,0-0-6]

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	0.28	Vert(LL)	n/a	-	n/a	999	MT20	185/148
TCDL	7.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-SH							Weight: 88 lb	FT = 10%

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

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

- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 2, 10, 16, 17, 18, 14, 13, 12.

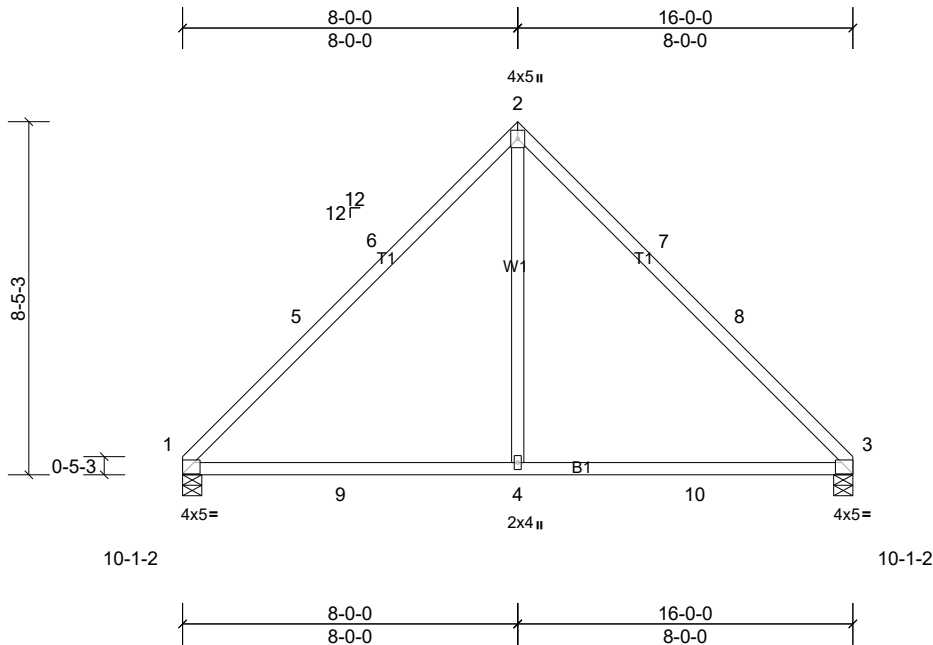
LOAD CASE(S) Standard

REACTIONS All bearings 16-0-0.
(lb) - Max Horiz 2=-184 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 10, 12, 13, 14, 16, 17, 18
Max Grav All reactions 250 (lb) or less at joint (s) 12, 13, 14, 15, 16, 17, 18 except 2=295 (LC 1), 10=295 (LC 1)

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=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -2-0-0 to 1-0-0, Exterior(2N) 1-0-0 to 8-0-0, Corner(3R) 8-0-0 to 11-0-0, Exterior(2N) 11-0-0 to 18-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
4173683	B04	Common	8	1	



Scale = 1:52.4

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	0.92	Vert(LL)	-0.21	3-4	>874	240	MT20	185/148
TCDL	7.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.33	3-4	>572	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-SH							Weight: 55 lb	FT = 10%

LUMBER LOAD CASE(S) Standard

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

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

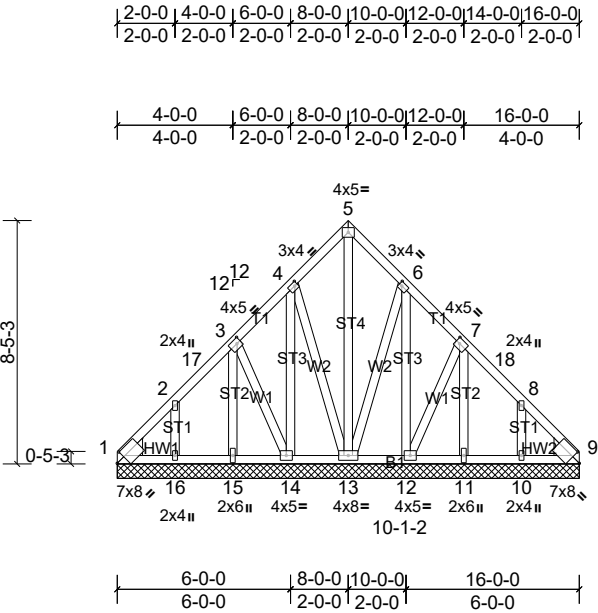
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 1=653/0-5-8, (min. 0-1-8),
3=653/0-5-8, (min. 0-1-8)
Max Horiz 1=148 (LC 11)
Max Uplift 1=-18 (LC 13), 3=-18 (LC 12)
Max Grav 1=744 (LC 22), 3=744 (LC 21)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-5=-862/67, 5-6=-721/73, 2-6=-685/96,
2-7=-685/96, 7-8=-721/73, 3-8=-862/67
BOT CHORD 1-9=0/495, 4-9=0/495, 4-10=0/495,
3-10=0/495
WEBS 2-4=0/534

- NOTES
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior (1) 11-0-0 to 15-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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 18 lb uplift at joint 1 and 18 lb uplift at joint 3.

Job	Truss	Truss Type	Qty	Ply	
4173683	B05	Common	1	1	Job Reference (optional)

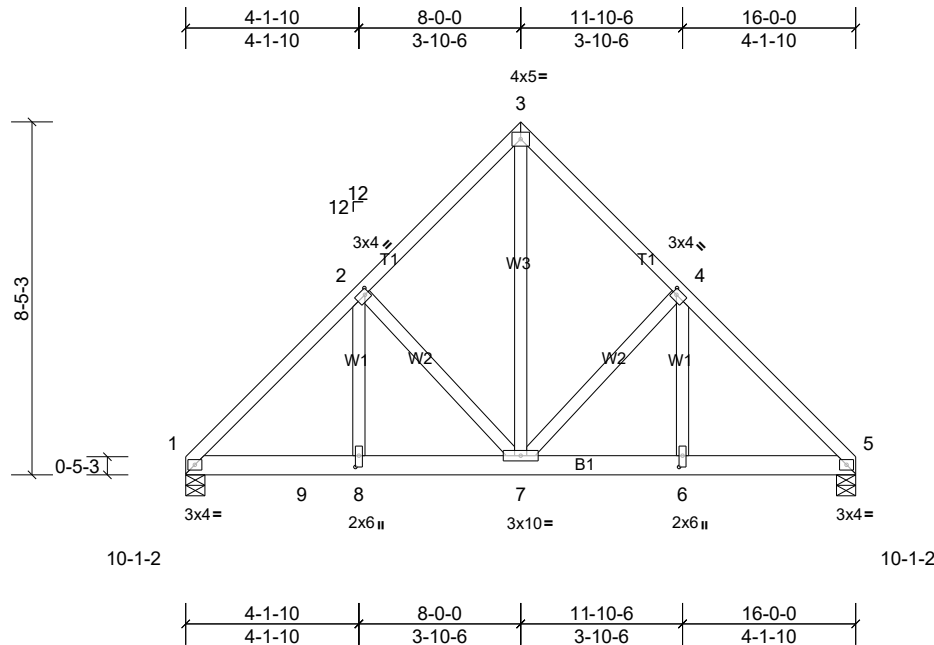


Job	Truss	Truss Type	Qty	Ply	
4173683	B06	Common Girder	2	1	Job Reference (optional)

Run: 8.82 S Sep 25 2024 Print: 8.820 S Sep 25 2024 MiTek Industries, Inc. Wed Jan 22 09:34:36

Page: 1

ID:RJDwrwL?OakWyuNSfn8tguyqAtv-TFMXq1dlUBJ?Z3M02wMReIQWkuNfmYaxPkoDV2zspZI



Scale = 1:52.4

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

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	0.22	Vert(LL)	-0.03	1-8	>999	240	MT20	185/148
TCDL	7.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.06	1-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-SH							Weight: 91 lb	FT = 10%

LUMBER

TOP CHORD	2x4 HF No.2
BOT CHORD	2x6 DF No.2
WEBS	2x4 HF No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-7-10 oc purlins.
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.

6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 979 lb down and 296 lb up at 2-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15,
Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-64, 3-5=-64, 1-5=-20
Concentrated Loads (lb)
Vert: 9=-746 (F)

REACTIONS

(lb/size) 1=1276/0-5-8, (min. 0-2-4),
5=775/0-5-8, (min. 0-1-8)
Max Horiz 1=147 (LC 5)
Max Uplift 1=-266 (LC 9), 5=-66 (LC 8)
Max Grav 1=1383 (LC 16), 5=775 (LC 1)

FORCES

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

TOP CHORD 1-2=-1430/283, 2-3=-714/171, 3-4=-712/170,
4-5=-965/123

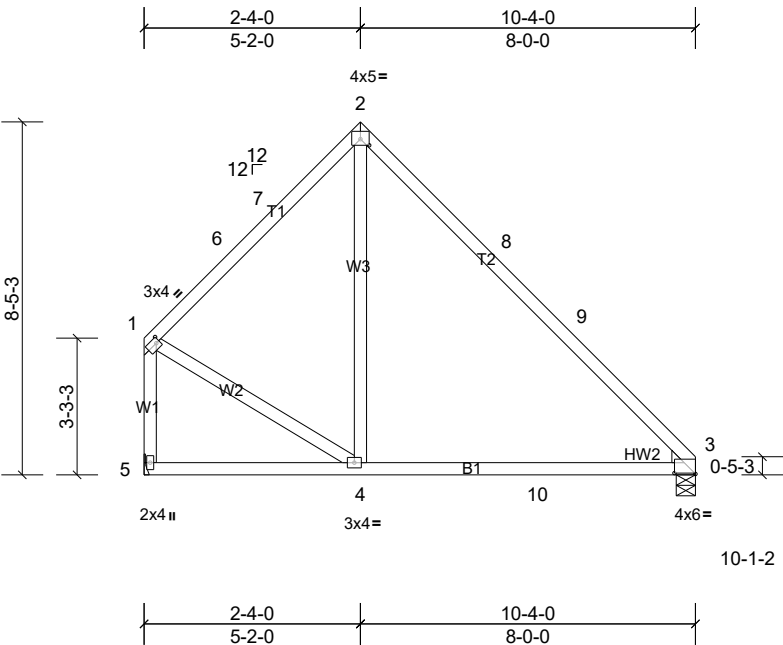
BOT CHORD 1-9=-214/1031, 8-9=-214/1031,
7-8=-214/1031, 6-7=-42/604, 5-6=-42/604

WEBS 2-8=-210/892, 2-7=-809/295, 3-7=-160/675,
4-7=-265/131

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=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 266 lb uplift at joint 1 and 66 lb uplift at joint 5.

Job	Truss	Truss Type	Qty	Ply	
4173683	B07	Common	2	1	Job Reference (optional)



Scale = 1:52.4

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

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	0.87	Vert(LL)	-0.23	3-4	>664	240	MT20	185/148
TCDL	7.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.37	3-4	>413	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-SH							Weight: 57 lb	FT = 10%

LUMBER
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2
WEDGE Right: 2x4 HF No.2

- 5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 3 and 36 lb uplift at joint 5.

LOAD CASE(S) Standard

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

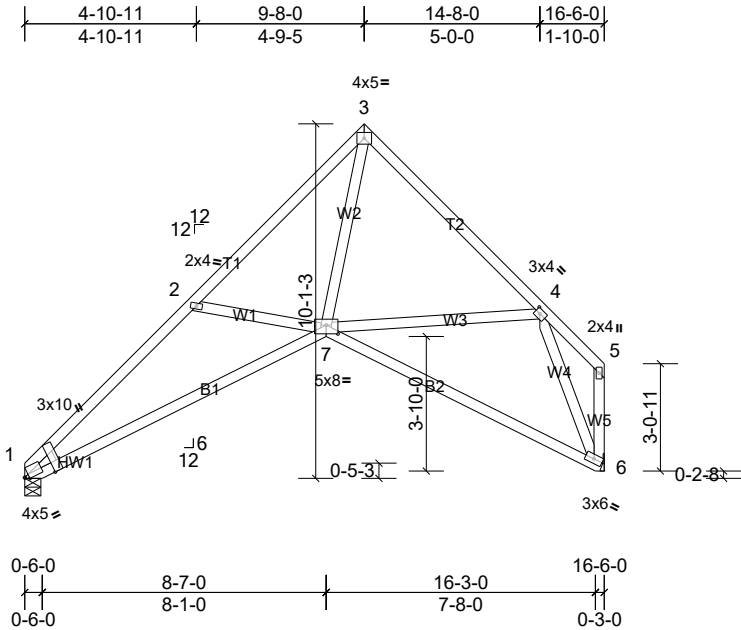
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 3=537/0-5-8, (min. 0-1-8), 5=537/
Mechanical, (min. 0-1-8)
Max Horiz 5=-178 (LC 8)
Max Uplift 3=-8 (LC 13), 5=-36 (LC 13)
Max Grav 3=601 (LC 21), 5=610 (LC 22)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-559/97, 6-7=-483/99, 2-7=-395/115, 2-8=-438/103, 8-9=-471/81, 3-9=-616/74, 1-5=-652/117
BOT CHORD 4-10=-5/334, 3-10=-5/334
WEBS 2-4=0/282, 1-4=-36/380

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 2-11-12 to 5-11-12, Interior (1) 5-11-12 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior (1) 11-0-0 to 15-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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'-0"-0 tall by 2'-0"-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

Job	Truss	Truss Type	Qty	Ply	
4173683	C01	Roof Special	8	1	Job Reference (optional)



Scale = 1:61.9

Plate Offsets (X, Y): [1:0-1-8,Edge], [1:0-2-15,Edge], [4:0-1-12,0-1-8], [7:0-4-0,0-3-0]

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	0.35	Vert(LL)	-0.17	1-7	>999	240	MT20	185/148
TCDL	7.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.36	1-7	>540	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.09	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-SH							Weight: 76 lb	FT = 10%

LUMBER
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2
WEDGE Left: 2x4 HF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-8 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.

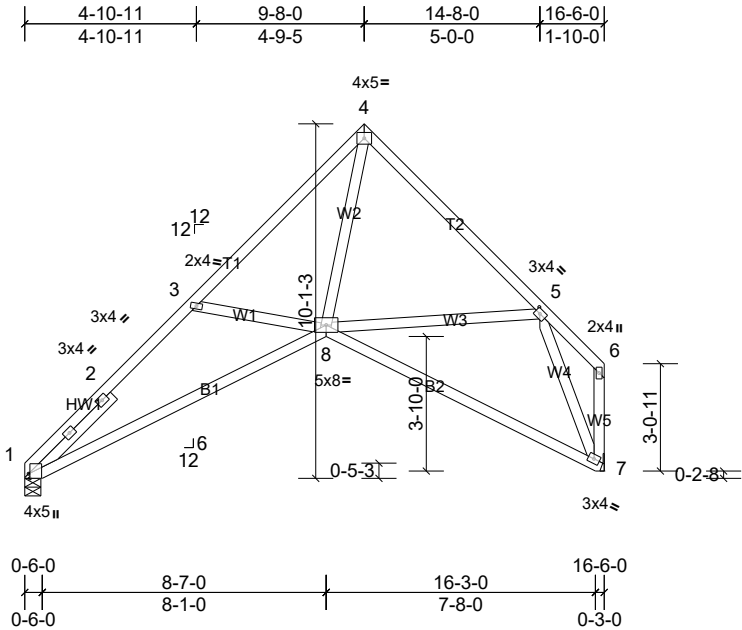
- 6) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 1 and 39 lb uplift at joint 6.
- LOAD CASE(S)** Standard

REACTIONS (lb/size) 1=677/0-5-8, (min. 0-1-8), 6=677/
Mechanical, (min. 0-1-8)
Max Horiz 1=209 (LC 9)
Max Uplift 1=-12 (LC 12), 6=-39 (LC 12)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1414/217, 2-3=-1076/152, 3-4=-829/124
BOT CHORD 1-7=-260/1149, 6-7=-120/435
WEBS 2-7=-346/212, 3-7=-98/909, 4-6=-912/221

- 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=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 9-8-0, Exterior(2R) 9-8-0 to 12-8-0, Interior (1) 12-8-0 to 16-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.

Job	Truss	Truss Type	Qty	Ply	
4173683	C02	Roof Special	1	2	Job Reference (optional)



Scale = 1:61.9

Plate Offsets (X, Y): [1:0-1-9,Edge], [5:0-1-12,0-1-8]

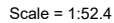
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.07	7-8	>999	240	MT20	185/148
TCDL	7.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.15	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.07	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-SH							Weight: 159 lb FT = 10%	

- LUMBER**
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 HF No.2
SLIDER Left 2x4 HF No.2 -- 3-3-8
- 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.
- REACTIONS** (lb/size) 1=677/0-5-8, (min. 0-1-8), 7=677/
Mechanical, (min. 0-1-8)
Max Horiz 1=209 (LC 9)
Max Uplift 1=-1071 (LC 39), 7=-666 (LC 40)
Max Grav 1=1352 (LC 38), 7=941 (LC 35)
- FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3298/2626, 2-3=-2784/2242,
3-4=-2081/1636, 4-5=-1096/754,
5-6=-420/367
BOT CHORD 1-8=-2138/2480, 7-8=-1062/1170
WEBS 3-8=-404/353, 4-8=-777/1208, 5-8=-495/623,
5-7=-1236/1033
- NOTES**
1) 2-ply truss to be connected together with 10d (0.148"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) 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.
3) Unbalanced roof live loads have been considered for this design.

- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 9-8-0, Exterior(2R) 9-8-0 to 12-8-0, Interior (1) 12-8-0 to 16-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Refer to girder(s) for truss to truss connections.
- 8) Bearing at joint(s) 1 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 1071 lb uplift at joint 1 and 666 lb uplift at joint 7.
- 10) This truss has been designed for a total drag load of 150 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 16-6-0 for 150.0 plf.

LOAD CASE(S) Standard

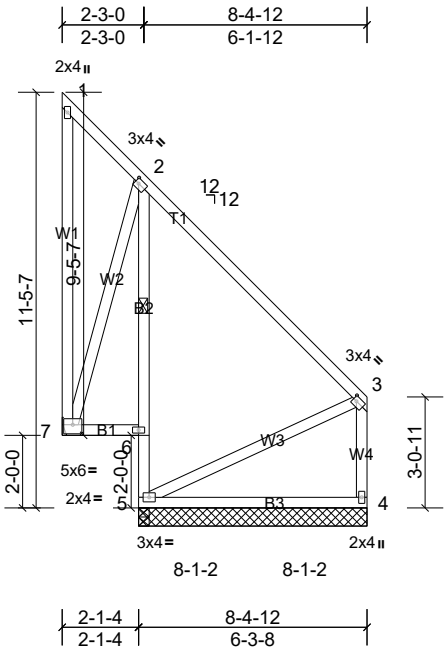
Run: 8.82 S Sep 25 2024 Print: 8.820 S Sep 25 2024 MiTek Industries, Inc. Wed Jan 22 09:34:36 Page: 1
ID:3uZ50PiYBpXflpM0ZH4spVyq_69-TFMXq1dlUBJ?Z3M02wmReIQoouRymRBxPkoDV2zspZI



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	0.73	Vert(LL)	-0.08	4-5	>860	240	MT20	185/148
TCDL	7.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.17	4-5	>430	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.10	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 63 lb	FT = 10%

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 8-3-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.

Job	Truss	Truss Type	Qty	Ply	
4173683	D02	Roof Special Structural Gable	1	1	Job Reference (optional)



Scale = 1:52.4

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

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	0.73	Vert(LL)	-0.08	4-5	>860	240	MT20	185/148
TCDL	7.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.17	4-5	>430	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.09	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 63 lb	FT = 10%

LUMBER

TOP CHORD 2x4 HF No.2

BOT CHORD 2x4 HF No.2

WEBS 2x4 HF 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. Except:

1 Row at midpt 2-6

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

- 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) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 4 except (jt=lb) 7=599, 6=349.

LOAD CASE(S) Standard

REACTIONS

All bearings 6-3-8. except 7= Mechanical

(lb) - Max Horiz 7=-254 (LC 8)

Max Uplift All uplift 100 (lb) or less at joint(s) 4 except 6=-349 (LC 11), 7=-600 (LC 8)

Max Grav All reactions 250 (lb) or less at joint (s) 5 except 4=262 (LC 22), 6=675 (LC 21), 7=466 (LC 11)

FORCES

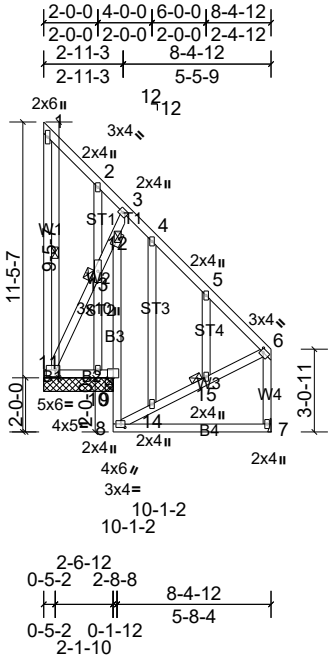
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

BOT CHORD 2-6=-1259/874

WEBS 2-7=-980/1330

- 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=4.2psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 8-3-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss is not designed to support a ceiling and is not intended for use where aesthetics are a consideration.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Job	Truss	Truss Type	Qty	Ply	
4173683	D03	Roof Special Structural Gable	1	1	Job Reference (optional)



Scale = 1:56.2

*** Design Problems ***
REVIEW REQUIRED
Analog warning - check design

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

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	0.36	Vert(LL)	-0.04	7-8	>999	240	MT20	185/148
TCDL	7.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.07	7-8	>904	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.06	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-SH							Weight: 79 lb	FT = 10%

LUMBER		
TOP CHORD	2x4 HF No.2	
BOT CHORD	2x4 HF No.2	
WEBS	2x4 HF No.2	
OTHERS	2x4 HF No.2	
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
WEBS	1 Row at midpt	1-11
JOINTS	1 Brace at Jt(s): 12, 13, 15	
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.		

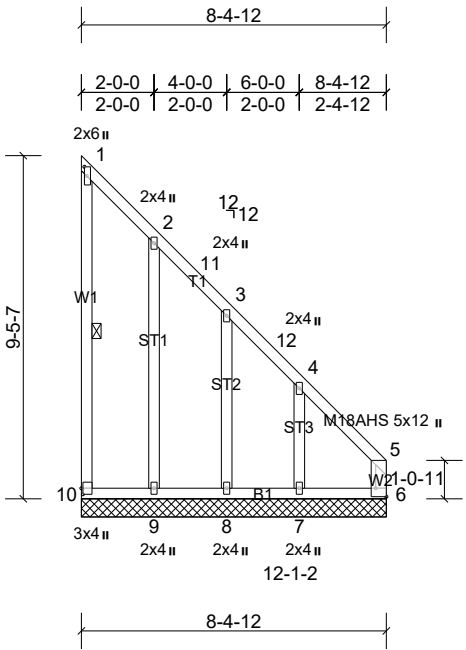
REACTIONS	All bearings 2-6-12. except 7= Mechanical, 9=0-3-8	
(lb) - Max Horiz	11=-254 (LC 8)	
Max Uplift	All uplift 100 (lb) or less at joint(s) 9, 10 except 11=-366 (LC 8)	
Max Grav	All reactions 250 (lb) or less at joint (s) 10 except 7=257 (LC 1), 9=285 (LC 21), 11=348 (LC 11)	
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
BOT CHORD	9-12=-665/510	
WEBS	11-13=-556/698, 12-13=-731/927, 3-12=-345/328	

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=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2E) 0-1-12 to 3-0-11, Interior (1) 3-0-11 to 8-3-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable studs spaced at 2-0-0 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 10, 9 except (jt=lb) 11=366.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
4173683	D04	Roof Special Supported Gable	1	1	Job Reference (optional)



Scale = 1:63.6

Plate Offsets (X, Y): [1:0-3-0,0-0-12], [5:Edge,0-3-8], [10:0-2-0,0-0-8]

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)	n/a	-	n/a	999	MT20	185/148
TCDL	7.0	Lumber DOL	1.15	BC	0.41	Vert(TL)	n/a	-	n/a	999	M18AHS	145/140
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 52 lb	FT = 10%

LUMBER	
TOP CHORD	2x4 HF No.2
BOT CHORD	2x4 HF No.2
WEBS	2x4 HF No.2
OTHERS	2x4 HF 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 9-6-9 oc bracing.
WEBS	1 Row at midpt 1-10
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

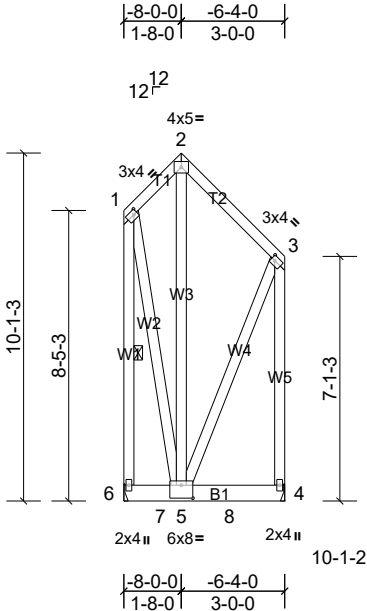
REACTIONS	
All bearings	8-4-12.
(lb) - Max Horiz	10=-223 (LC 8)
Max Uplift	All uplift 100 (lb) or less at joint(s) 8, 9, 10 except 6=-107 (LC 11), 7=-204 (LC 13)
Max Grav	All reactions 250 (lb) or less at joint (s) 6, 8, 9, 10 except 7=265 (LC 22)

FORCES	
(lb) - Max. Comp./Max. Ten. - All forces	250
(lb) or less except when shown.	
TOP CHORD	2-11=-322/260, 3-11=-333/247, 3-12=-419/291, 4-12=-423/273, 4-5=-657/424, 5-6=-475/287
BOT CHORD	9-10=-304/485, 8-9=-304/485, 7-8=-304/485, 6-7=-304/485
WEBS	2-9=-231/254, 4-7=-259/311

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Corner(3E) 0-1-12 to 3-1-12, Exterior(2N) 3-1-12 to 8-3-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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 MT20 plates 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) 10, 9, 8 except (jt=lb) 6=106, 7=204.
- LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	
4173683	E01	Common Girder	1	1	Job Reference (optional)



Scale = 1:51.2

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

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	0.34	Vert(LL)	-0.01	4-5	>999	240	MT20	185/148
TCDL	7.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.02	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.35	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 63 lb	FT = 10%

LUMBER

TOP CHORD 2x4 HF No.2

BOT CHORD 2x6 DF No.2

WEBS 2x4 HF No.2

BRACING

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

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

WEBS 1 Row at midpt 1-6

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

- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 591 lb down and 47 lb up at 9-0-12, and 590 lb down and 48 lb up at 11-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (lb/ft)
- Vert: 1-2=-64, 2-3=-64, 4-6=-20
- Concentrated Loads (lb)
- Vert: 7=-518 (B), 8=-517 (B)

REACTIONS (lb/size) 4=637/ Mechanical, (min. 0-1-8), 6=766/ Mechanical, (min. 0-1-8)

Max Horiz 6=-248 (LC 4)

Max Uplift 4=-236 (LC 5), 6=-284 (LC 4)

Max Grav 4=861 (LC 15), 6=999 (LC 16)

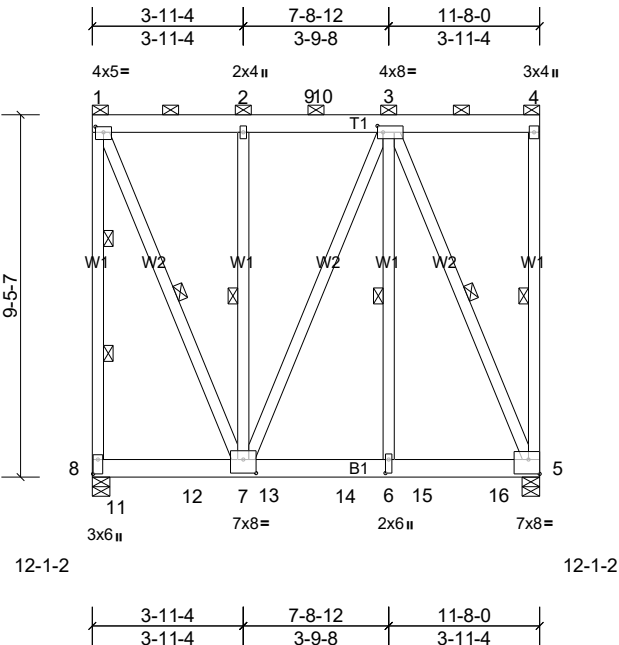
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 3-4=-590/242, 1-6=-806/260

WEBS 3-5=-229/421, 1-5=-272/684

- 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=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 284 lb uplift at joint 6 and 236 lb uplift at joint 4.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
4173683	E02	Flat Girder	1	1	



Scale = 1:56.1

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

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	0.72	Vert(LL)	0.07	5-6	>999	240	MT20	185/148
TCDL	7.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.07	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.89	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-SH							Weight: 122 lb	FT = 10%

- LUMBER**
TOP CHORD 2x6 DF No.2
BOT CHORD 2x6 DF No.2
WEBS 2x4 HF No.2
- BRACING**
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-4, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-7-3 oc bracing.
WEBS 1 Row at midpt 4-5, 1-7, 2-7, 3-6, 3-5
WEBS 2 Rows at 1/3 pts 1-8

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

- REACTIONS** (lb/size) 5=1670/0-5-8, (min. 0-4-4), 8=1682/0-5-8, (min. 0-4-2)
Max Horiz 8=-242 (LC 4)
Max Uplift 5=-1993 (LC 5), 8=-2123 (LC 4)
Max Grav 5=2569 (LC 15), 8=2515 (LC 17)
- FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-1815/1463, 1-2=-793/597, 2-9=-793/597, 9-10=-793/597, 3-10=-793/597
BOT CHORD 7-13=-656/799, 13-14=-656/799, 6-14=-656/799, 6-15=-656/799, 15-16=-656/799, 5-16=-656/799
WEBS 1-7=-1552/1872, 3-6=-1270/1578, 3-5=-1979/1538

- 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=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2123 lb uplift at joint 8 and 1993 lb uplift at joint 5.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 449 lb down and 594 lb up at 0-7-4, 446 lb down and 597 lb up at 2-7-4, 446 lb down and 597 lb up at 4-7-4, 446 lb down and 597 lb up at 6-7-4, and 446 lb down and 597 lb up at 8-7-4, and 454 lb down and 611 lb up at 10-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

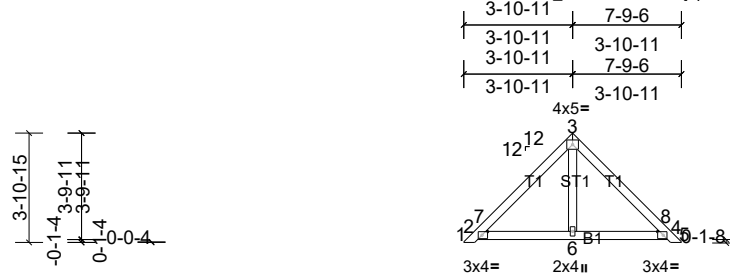
- LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-64, 5-8=-230 (F=-210)
Concentrated Loads (lb)
Vert: 11=-7 (B), 12=-2 (B), 13=-2 (B), 14=-2 (B), 15=-2 (B), 16=6 (B)

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
4173683	PB01	Piggyback	16	1	

Run: 8.82 S Sep 25 2024 Print: 8.820 S Sep 25 2024 MiTek Industries, Inc. Wed Jan 22 09:34:36

Page: 1

ID:2MiLdmX64_DTK6SUz4Q5BnyqAsM-xSww1NdwFURsBDxDbetgBWzhllssV5a5eOYm1VzspZH



Scale = 1:71.9

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

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	0.21	Vert(LL)	n/a	-	n/a	999	MT20	185/148
TCDL	7.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 24 lb	FT = 10%

LUMBER

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

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

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 2 and 33 lb uplift at joint 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

REACTIONS (lb/size) 2=192/6-9-0, (min. 0-1-8),
4=192/6-9-0, (min. 0-1-8),
6=223/6-9-0, (min. 0-1-8)
Max Horiz 2=-68 (LC 10)
Max Uplift 2=-30 (LC 13), 4=-33 (LC 13)

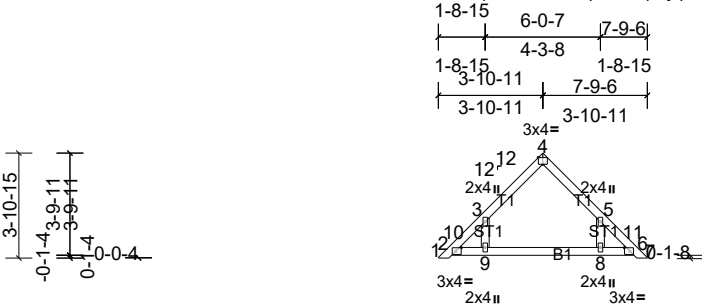
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250
(lb) or less except when shown.

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust)
Vasd=91mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-14 to 3-2-14, Interior (1) 3-2-14 to 3-11-3, Exterior(2R) 3-11-3 to 6-11-3, Interior (1) 6-11-3 to 7-7-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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.

Job	Truss	Truss Type	Qty	Ply	
4173683	PB02	Piggyback	2	1	Job Reference (optional)

ID:aiCqY2xoJ7NooBTpOWWq1kyqArr-xSvw1NdwFURsBDxDbetgBWzk6lszV5d5eOYm1VzspZH



Scale = 1:73.7

21-2-10
0-6-3 7-3-3 7-9-6
0-6-3 6-9-0 0-6-3

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

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	185/148
TCDL	7.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 23 lb	FT = 10%

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

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

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 2, 6, 9, 8.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

REACTIONS All bearings 6-9-0.
(lb) - Max Horiz 2=-68 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 6, 8, 9
Max Grav All reactions 250 (lb) or less at joint (s) 2, 6, 8, 9

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

- 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=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-14 to 3-2-14, Interior (1) 3-2-14 to 3-11-3, Exterior(2R) 3-11-3 to 6-11-3, Interior (1) 6-11-3 to 7-7-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.