Job	Truss	Truss Type	Qty	Ply	Harper
20040140	PB1	Piggyback	8	1	Job Reference (optional)

Run: 8.33 S Apr 7 2020 Print: 8.330 S Apr 7 2020 MiTek Industries, Inc. Thu May 07 09:28:36

ID:T3ubv29DMDND0R0OcmZZ0uzlyIt-RsiJQhyIAtafNLOwjUxHbu8CeEeinldsNtou dzlxxv

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

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

Installation guide.

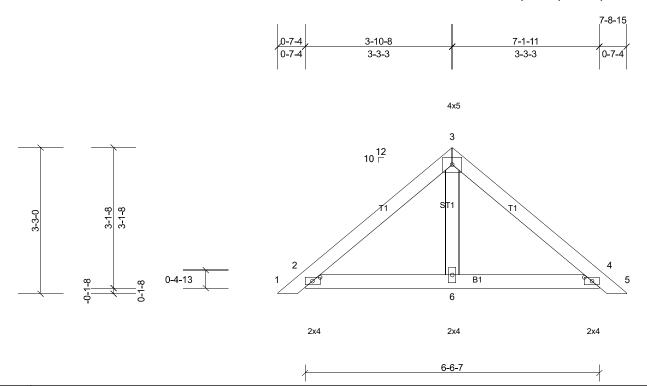


Plate Offsets (X, Y): [2:0-2-1,0-1-0], [4:0-2-1,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 28 lb	FT = 20%

LUMBER **BRACING** TOP CHORD 2x4 SP No.2 TOP CHORD **BOT CHORD**

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

2x4 SP No.2 **BOT CHORD** OTHERS 2x4 SP No.3

Scale = 1:25.6

FORCES

REACTIONS All bearings 6-6-7.

(lb) - Max Horiz 2=-60 (LC 11), 7=-60 (LC 11)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 7, 11

Max Grav All reactions 250 (lb) or less at joint(s) 2, 4, 6, 7, 11

NOTES

- Unbalanced roof live loads have been considered for this design. 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) zone; 2) 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=1.33
- 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 3) qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing. 6)
- Gable studs spaced at 4-0-0 oc.
- * 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.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral 9) forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

Job	Truss	Truss Type	Qty	Ply	Harper
20040140	PB1GE	Piggyback	1	1	Job Reference (optional)

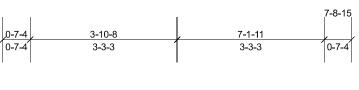
Run: 8.33 S Apr 7 2020 Print: 8.330 S Apr 7 2020 MiTek Industries, Inc. Thu May 07 09:28:37 Page: 1
ID:EKrB0z2aUSEVR3qgaNvS8?zlyJ0-v3Ghd1zxxBiW?Vz6HCSW75hPje0oWla0bXYSX3zlxxu

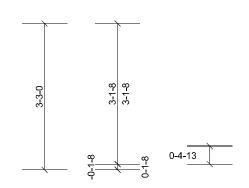
Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

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

Installation guide.





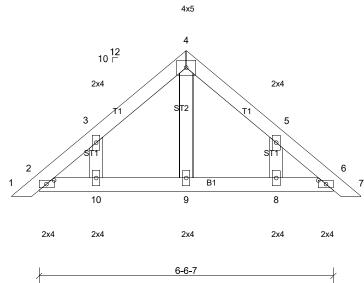


Plate Offsets (X, Y): [2:0-2-1,0-1-0], [6:0-2-1,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	15	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 31 lb	FT = 20%

 LUMBER
 BRACING

 TOP CHORD
 2x4 SP No.2
 TOP CHORD

 BOT CHORD
 2x4 SP No.2
 BOT CHORD

BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.3

REACTIONS All bearings 6-6-7.

(lb) - Max Horiz 2=-60 (LC 11), 11=-60 (LC 11)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 8, 10, 11

Max Grav All reactions 250 (lb) or less at joint(s) 2, 6, 8, 9, 10, 11, 15

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

NOTES

Scale = 1:25.6

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- * 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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 10, and 8. This connection is for uplift only and does not consider lateral forces.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- [1] See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

Job	Truss	Truss Type	Qty	Ply	Harper
20040140	T1	Common	1	1	Job Reference (optional)

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Structural wood sheathing directly applied or 6-0-0 oc purlins,

installed during truss erection, in accordance with Stabilizer

MiTek recommends that Stabilizers and required cross bracing be

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

except end verticals.

Installation guide.

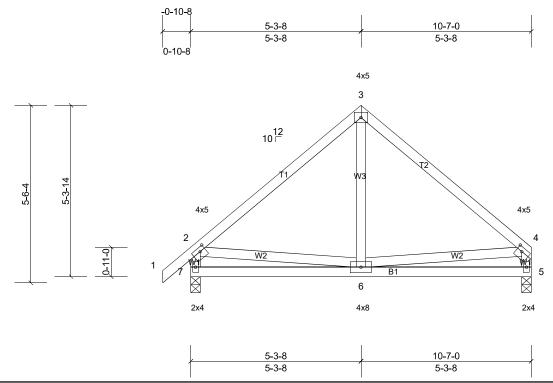


Plate Offsets (X, Y): [2:0-2-0,0-1-8], [4:0-2-0,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	0.00	6	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.02	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0	1									Weight: 62 lb	FT = 20%

BOT CHORD

 LUMBER
 BRACING

 TOP CHORD
 2x4 SP No.2
 TOP CHORD

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3

REACTIONS (lb/size) 5=346/0-3-8, (min. 0-1-8), 7=400/0-3-8, (min. 0-1-8)

Max Horiz 7=116 (LC 10)

Max Grav 5=409 (LC 2), 7=476 (LC 2)

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

TOP CHORD 2-3=-413/103, 3-4=-406/98, 2-7=-430/154, 4-5=-363/106

BOT CHORD 6-7=-167/276

NOTES

Scale = 1:35.8

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
-) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job		Truss	Truss Type	Qty	Ply	Harper
2004	0140	T1GE	Common Supported Gable	1	1	Job Reference (optional)

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ID:Wn4rVqiKs27O?rG80suBcNzIvKm-v3Ghd1zxxBiW?Vz6HCSW75hOue0ZWk60bXYSX3zIxxu -0-10-8 5-3-8 10-7-0 0-10-8 5-3-8 5-3-8 4x5 5 10 ¹² 4 6 3 7 8 B 9 13 10 14 12 11 10-7-0 Scale = 1:31 Loading (psf) Spacing 2-0-0 CSI **DEFL** in (loc) I/defl L/d **PLATES GRIP** TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.10 Vert(LL) n/a 999 MT20 244/190 n/a

0.04

0.07

BRACING

TOP CHORD

BOT CHORD

Vert(CT)

Horz(CT)

n/a

0.00

n/a 999

n/a n/a

Weight: 61 lb

Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

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

FT = 20%

9

except end verticals.

Installation guide

LUMBER TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2

2x4 SP No.3 **OTHERS** 2x4 SP No.3

REACTIONS All bearings 10-7-0.

(lb) - Max Horiz 15=116 (LC 10)

13.9/20.0

10.0

10.0

0.0*

Max Uplift All uplift 100 (lb) or less at joint(s) 9, 10, 11, 13, 14, 15 Max Grav All reactions 250 (lb) or less at joint(s) 9, 10, 11, 12, 13, 14, 15

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

Lumber DOL

Code

Rep Stress Incr

NOTES

Snow (Pf/Pg)

TCDL

BCLL

BCDL

WEBS

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate 4) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

BC

Matrix-MR

1.15

YES WB

IRC2015/TPI2014

- All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) 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 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 10) any other members.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15, 9, 13, 14, 11, and 10. This connection is for uplift only and does not 11) consider lateral forces
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Harper
20040140	T2	Common	1	1	Job Reference (optional)

Run: 8.33 S Apr 7 2020 Print: 8.330 S Apr 7 2020 MiTek Industries, Inc. Thu May 07 09:28:38 Page: 1
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Structural wood sheathing directly applied or 6-0-0 oc purlins,

installed during truss erection, in accordance with Stabilizer

MiTek recommends that Stabilizers and required cross bracing be

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

except end verticals.

Installation guide.

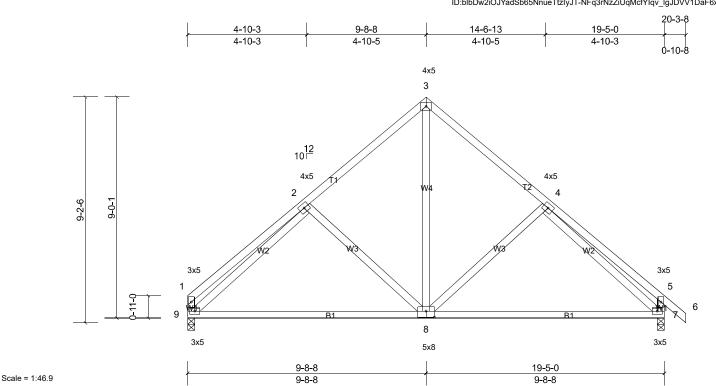


Plate Offsets (X, Y): [8:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.02	8	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.17	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.02	7	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 120 lb	FT = 20%

BOT CHORD

 LUMBER
 BRACING

 TOP CHORD
 2x4 SP No.2
 TOP CHORD

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.2 *Except* W1:2x4 SP No.1

REACTIONS (lb/size) 7=698/0-3-8, (min. 0-1-8), 9=646/0-3-8, (min. 0-1-8)

Max Horiz 9=-189 (LC 11)

Max Grav 7=828 (LC 2), 9=763 (LC 2)

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

TOP CHORD 1-2=-348/101, 2-3=-689/209, 3-4=-688/209, 4-5=-398/145, 1-9=-305/99, 5-7=-389/160

BOT CHORD 8-9=-40/644, 7-8=-35/590

WEBS 3-8=-135/561, 2-8=-261/200, 2-9=-569/119, 4-8=-256/198, 4-7=-540/78

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; bcDL=6.0p
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

 Job
 Truss
 Truss Type
 Qty
 Ply
 Harper

 20040140
 T2GE
 Common Supported Gable
 1
 1
 1
 Job Reference (optional)

Carter Components - Sanford, Sanford, NC, user

Run: 8.33 S Apr 7 2020 Print: 8.330 S Apr 7 2020 MiTek Industries, Inc. Thu May 07 09:28:38 Page: 1
ID:xALGr7LC8dwkU8OWABsromzlyJw-NFq3rNzZiUqMcfYlqv IgJDW91KEFBV9qBH?3Vzlxxt

Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

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

except end verticals.

Installation guide.

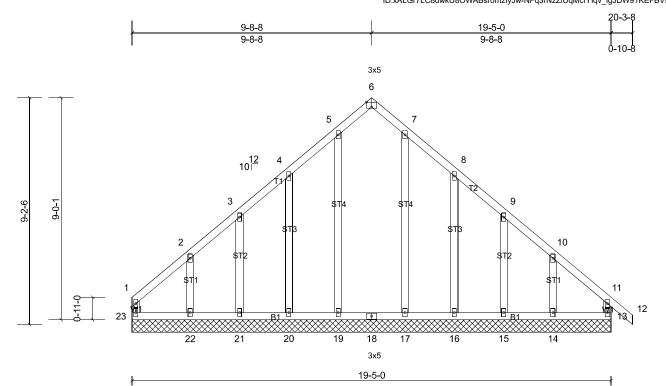


Plate Offsets (X, Y): [6:0-2-8,Edge]

Scale = 1:46.7

Loading	(psf)	Spacing	2-0-0	CSI	-	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	13	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 128 lb	FT = 20%

BOT CHORD

 LUMBER
 BRACING

 TOP CHORD
 2x4 SP No.2
 TOP CHORD

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3

OTHERS 2x4 SP No.2 *Except* ST2,ST1:2x4 SP No.3

REACTIONS All bearings 19-5-0.

(lb) - Max Horiz 23=-189 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) 13, 15, 16, 20, 21, 23 except

14=-118 (LC 14), 22=-119 (LC 13)

Max Grav All reactions 250 (lb) or less at joint(s) 13, 14, 15, 16, 17, 19,

20, 21, 22, 23

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.

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 9) Gable studs spaced at 2-0-0 oc.
- 10) * 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.
- 11) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 23, 13, 20, 21, 22, 16, 15, and 14. This connection is for uplift only and does not consider lateral forces.
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Harper
20040140	Т3	Monopitch	2	1	Job Reference (optional)

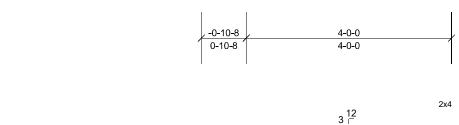
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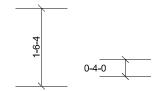
2x4

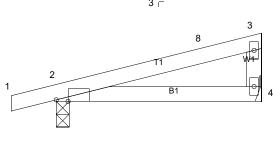
except end verticals.

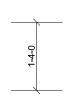
Installation guide.

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Structural wood sheathing directly applied or 4-0-0 oc purlins,

installed during truss erection, in accordance with Stabilizer

MiTek recommends that Stabilizers and required cross bracing be

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

4-0-0

BOT CHORD

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

Scale = 1:22.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.02	4-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 15 lb	FT = 20%

3x5

LUMBER **BRACING** TOP CHORD

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** WFBS

2x4 SP No.3

REACTIONS (lb/size) 2=177/0-3-0, (min. 0-1-8), 4=126/ Mechanical, (min. 0-1-8)

Max Horiz 2=33 (LC 14)

Max Uplift 2=-31 (LC 11), 4=-6 (LC 15)

Max Grav 2=213 (LC 2), 4=148 (LC 2)

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

FORCES NOTES

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) zone; 1) 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate 2) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10; Min. flat roof snow load governs.
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 4.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 9)

Job	Truss	Truss Type	Qty	Ply	Harper
20040140	T4	Piggyback Base	8	1	Job Reference (optional)

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Structural wood sheathing directly applied or 6-0-0 oc purlins,

MiTek recommends that Stabilizers and required cross bracing be

4-16, 5-15, 6-15, 7-14

except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 5-6. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-16.

installed during truss erection, in accordance with Stabilizer

1 Row at midpt

Installation guide.

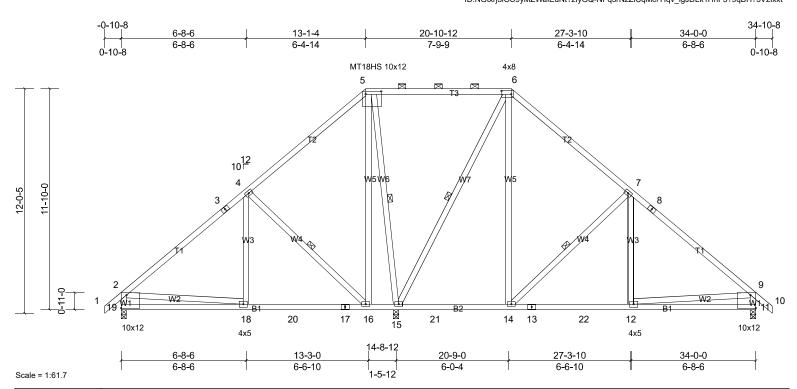


Plate Offsets (X, Y): [5:0-10-0,0-1-12], [6:0-6-4,0-2-0], [11:Edge,0-8-6], [19:Edge,0-8-6]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.05	14-15	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.08	16-18	>999	180	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.02	11	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 250 lb	FT = 20%

LUMBER **BRACING** TOP CHORD

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD**

WFBS 2x4 SP No.2 *Except* W1:2x4 SP No.3 **BOT CHORD**

REACTIONS (lb/size) 11=641/0-3-8, (min. 0-1-8), 15=1357/0-3-8, (min. 0-1-13), WFBS

19=460/0-3-8, (min. 0-1-8) Max Horiz 19=-251 (LC 11)

Max Uplift 11=-13 (LC 14), 19=-4 (LC 13)

Max Grav 11=767 (LC 30), 15=1541 (LC 3), 19=581 (LC 29)

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

FORCES TOP CHORD 2-3=-538/86, 3-4=-311/113, 6-7=-420/229, 7-8=-585/163, 8-9=-793/136, 2-19=-524/156, 9-11=-707/189

BOT CHORD 18-19=-257/434, 18-20=-123/412, 17-20=-123/412, 16-17=-123/412, 15-21=-45/265, 14-21=-45/265, 13-14=0/515,

13-22=0/515, 12-22=0/515, 11-12=-127/354

4-16=-523/223, 5-16=-93/391, 5-15=-775/173, 6-15=-791/133, 6-14=-72/555, 7-14=-500/221, 9-12=0/295

WEBS NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate 3) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated
- All plates are 3x5 MT20 unless otherwise indicated.
- * 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.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 19 and 11. This connection is for uplift only and does not consider lateral 9) forces
- This truss is designed in accordance with the 2015 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.



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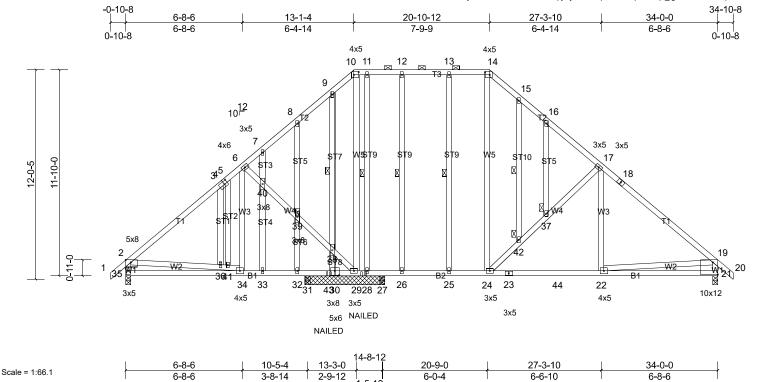


Plate Offsets (X, Y): [2:0-3-8,Edge], [4:0-2-4,0-2-4], [10:0-3-4,0-2-0], [14:0-3-4,0-2-0], [21:Edge,0-8-6], [30:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.10	22-24	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.22	22-24	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.51	Horz(CT)	0.04	21	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 336 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD**

WFBS 2x4 SP No.2 *Except* W1:2x4 SP No.3

OTHERS 2x4 SP No.2 *Except* ST1,ST8,ST6,ST3,ST4:2x4 SP No.3

REACTIONS All bearings 0-3-8. except 30=4-7-0, 29=4-7-0, 28=4-7-0

(lb) - Max Horiz 35=-251 (LC 31)

Max Uplift All uplift 100 (lb) or less at joint(s) 21, 27, 30, 31 except

28=-668 (LC 22), 29=-274 (LC 26)

All reactions 250 (lb) or less at joint(s) 28, 29, 30 except

21=1334 (LC 44), 27=821 (LC 3), 31=256 (LC 2), 35=1259 (LC

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

2-3=-1504/48, 3-4=-1375/83, 4-5=-1372/86, 5-6=-1246/73, 6-7=-1273/116, 7-8=-1196/122, 8-9=-1210/166, TOP CHORD

9-10=-1140/188, 10-11=-888/154, 11-12=-888/154, 12-13=-888/154, 13-14=-888/154, 14-15=-1109/151, 15-16=-1142/127, 16-17=-1217/105, 17-18=-1396/62, 18-19=-1585/36, 2-35=-1186/33, 19-21=-1279/63

34-35=-217/587, 33-34=0/1022, 32-33=0/1022, 31-32=0/1022, 31-43=0/1022, 30-43=0/1022, 29-30=0/1017,

28-29=0/828, 27-28=0/828, 26-27=0/828, 25-26=0/828, 24-25=0/828, 23-24=0/1097, 23-44=0/1097, 22-44=0/1097,

21-22=-92/315

6-40=-323/100, 39-40=-318/107, 38-39=-327/108, 29-38=-309/94, 10-29=-80/597, 14-24=-32/475, 24-42=-479/144,

37-42=-464/134, 17-37=-432/122, 2-36=-75/723, 36-41=-78/720, 34-41=-78/738, 19-22=0/807

WEBS NOTES

BOT CHORD

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right 2) exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=18.9 psf (flat roof snow: Lumber DOL=1.15 Plate 4) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable studs spaced at 2-0-0 oc.
- * 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.

BRACING TOP CHORD

BOT CHORD

WFBS

JOINTS

Structural wood sheathing directly applied or 4-2-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 10-14. Rigid ceiling directly applied or 10-0-0 oc bracing

12-26, 13-25, 11-28, 9-38, 15-42 1 Row at midpt

1 Brace at Jt(s): 37, 39, 42

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	Harper
20040140	T4GE	Piggyback Base Girder	1	1	Job Reference (optional)

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- Page: 2 $ID:j8Z7dBIBD5DuluCT6VFcpjzlyHP-NFq3rNzZiUqMcfYlqv_lgJDLi17tF5R9qBH?3Vzlxxt$
- 10) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 30, 29, and 21. This connection is for uplift only and does not consider lateral
- One RT8A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 28. This connection is for uplift only and does not consider lateral forces. 11)
- One RT16A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 31 and 27. This connection is for uplift only and does not consider lateral
- This truss is designed in accordance with the 2015 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.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines. 15)
- 16) 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

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-2=-48, 2-10=-48, 10-14=-58, 14-19=-48, 19-20=-48, 21-35=-20

Concentrated Loads (lb)

Vert: 28=-128 (F), 43=-128 (F)

Job	Truss	Truss Type	Qty	Ply	Harper
20040140	T5	Common	10	1	Job Reference (optional)

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30-2-0

10-0-15

Structural wood sheathing directly applied.

Installation guide.

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

Page: 1

7-6-15 15-1-0 22-7-1 30-2-0 7-6-15 7-6-1 7-6-1 7-6-15 4x5 5 6¹² 2x4 2x4 3x5 4 6 3x5 3 THW1 22 12 21 11 10 3x5 3x5 4x6 4x8

Scale = 1:55.8

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

4x8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.44	10-12	>832	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.63	10-12	>578	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.06	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 140 lb	FT = 20%

20-1-1

10-0-2

BOT CHORD

LUMBER **BRACING** TOP CHORD

10-0-15

10-0-15

TOP CHORD 2x4 SP No.2 2x4 SP No.1 **BOT CHORD**

WFBS 2x4 SP No.2 *Except* W1:2x4 SP No.3

Left: 2x4 SP No.3 WFDGF

Right: 2x4 SP No.3

2=1063/0-3-8, (min. 0-1-8), 8=1063/0-3-8, (min. 0-1-8) REACTIONS (lb/size)

Max Horiz 2=-86 (LC 13)

Max Uplift 2=-5 (LC 15), 8=-5 (LC 16) Max Grav 2=1259 (LC 2), 8=1259 (LC 2)

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

TOP CHORD 2-3=-2041/506, 3-4=-1875/526, 4-19=-1812/515, 5-19=-1703/535, 5-20=-1703/535, 6-20=-1812/515, 6-7=-1875/526,

7-8=-2041/506

2-12=-353/1750, 12-21=-119/1170, 11-21=-119/1170, 11-22=-119/1170, 10-22=-119/1170, 8-10=-355/1750

WEBS 5-12=-148/701, 4-12=-438/289, 5-10=-148/701, 6-10=-438/289

NOTES

BOT CHORD

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) zone; 2) 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=1.33
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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.
- 7) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Jol	b	Truss	Truss Type	Qty	Ply	Harper
20	040140	T5A	Common	6	1	Job Reference (optional)

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Structural wood sheathing directly applied.

6-0-0 oc bracing: 11-13

Installation guide.

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

installed during truss erection, in accordance with Stabilizer

MiTek recommends that Stabilizers and required cross bracing be

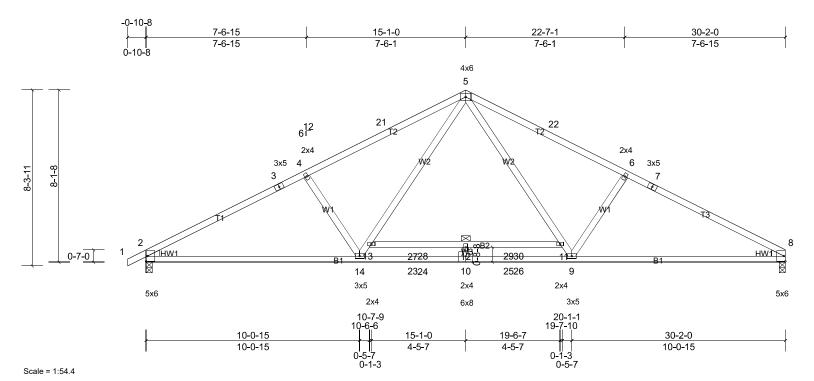


Plate Offsets (X, Y): [10:0-4-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.41	12	>891	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.89	12	>408	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.07	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0	1									Weight: 153 lb	FT = 20%

BOT CHORD

LUMBER **BRACING** TOP CHORD 2x4 SP No.2 *Except* T2:2x4 SP No.1 TOP CHORD

2x4 SP 2400F 2.0E *Except* B2:2x4 SP No.1 **BOT CHORD**

WFBS 2x4 SP No.3 *Except* W2:2x4 SP No.2

WEDGE Left: 2x4 SP No 3 Right: 2x4 SP No.3

REACTIONS (lb/size) 2=1256/0-3-8, (min. 0-1-8), 8=1213/0-3-8, (min. 0-1-8)

Max Horiz 2=87 (LC 12)

Max Grav 2=1453 (LC 2), 8=1399 (LC 2)

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

TOP CHORD 2-3=-2477/162, 3-4=-2339/184, 4-21=-2290/172, 5-21=-2203/192, 5-22=-2205/193, 6-22=-2292/172, 6-7=-2342/185,

7-8=-2480/163

BOT CHORD 2-14=-71/2171, 14-23=0/1593, 23-24=0/1593, 10-24=0/1593, 10-25=0/1593, 25-26=0/1593, 9-26=0/1593, 8-9=-72/2144 **WEBS**

13-14=-39/791, 5-13=0/976, 4-14=-418/306, 5-11=0/980, 9-11=-41/794, 6-9=-420/306

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate 3) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads. 5)
- 200.0lb AC unit load placed on the bottom chord, 15-1-0 from left end, supported at two points, 5-0-0 apart. 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.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Harper
20040140	T5GE	Common Supported Gable	2	1	Job Reference (optional)

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3x8

Structural wood sheathing directly applied or 6-0-0 oc purlins.

installed during truss erection, in accordance with Stabilizer

MiTek recommends that Stabilizers and required cross bracing be

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

Installation guide.

31-0-8 15-1-0 30-2-0 15-1-0 15-1-0 4x5 10 9 8 12 6¹² 13 3x5 3x5 6 14 5 15 18 HW1 31 30 26

5x6

30-2-0

Scale = 1:55.9

FORCES

Plate Offsets (X, Y): [2:0-3-8,Edge], [18:0-3-8,Edge], [26:0-3-0,0-3-0]

3x8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	18	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 184 lb	FT = 20%

LUMBER **BRACING** TOP CHORD 2x4 SP No.2 TOP CHORD **BOT CHORD**

2x4 SP No.2 **BOT CHORD** OTHERS 2x4 SP No.3 *Except* ST7,ST6,ST5:2x4 SP No.2

Left: 2x4 SP No 3 WEDGE

Right: 2x4 SP No.3

REACTIONS All bearings 30-2-0.

(lb) - Max Horiz 2=86 (LC 14), 33=86 (LC 14)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 20, 21, 22, 23, 24, 25, 27,

28, 29, 30, 31, 32, 33

Max Grav All reactions 250 (lb) or less at joint(s) 2, 18, 20, 21, 22, 23, 24,

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

25, 26, 27, 28, 29, 30, 31, 32, 33, 37

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) zone; 2) 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=1.33
- 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate 4) DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads. 6)
- All plates are 2x4 MT20 unless otherwise indicated. 7)
- 8) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- * 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 10)
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 27, 28, 29, 30, 31, 32, 25, 24, 23, 22, 21, and 20. This connection is for uplift only and does not consider lateral forces.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 18.
- 13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S)

Ţ	Job	Truss	Truss Type	Qty	Ply	Harper
2	20040140	V1	Valley	1	1	Job Reference (optional)

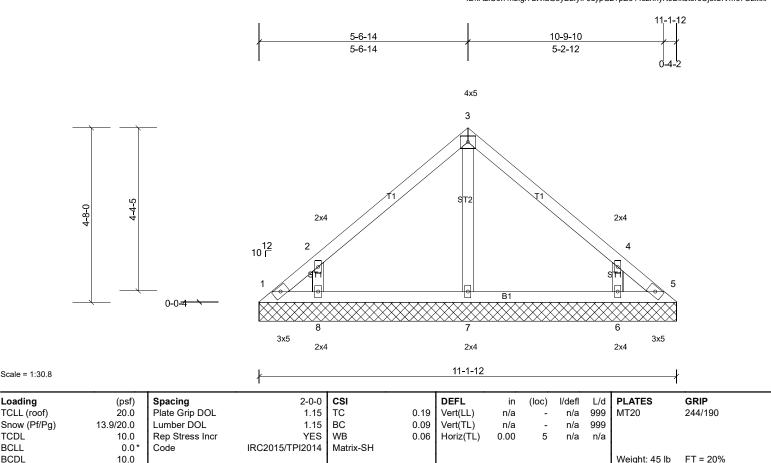
Run: 8.33 S Apr 7 2020 Print: 8.330 S Apr 7 2020 MiTek Industries, Inc. Thu May 07 09:28:40 ID:fA2lCol7mblgr7LWlaG8yDzlyli-JdypG2?pE644szhhyK0DlkJtor0Uj5tSIVm67Ozlxxr

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

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

Installation guide.



BRACING

TOP CHORD

BOT CHORD

LUMBER

Loading

TCDL

BCLL

BCDL

TCLL (roof)

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2

OTHERS 2x4 SP No.3

REACTIONS All bearings 11-1-12.

(lb) - Max Horiz 1=86 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5, 6, 8

Max Grav All reactions 250 (lb) or less at joint(s) 1, 5, 7 except 6=320 (LC

25), 8=320 (LC 24)

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

WFBS 2-8=-291/217, 4-6=-291/217

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) zone; 2) 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=1.33
- 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * 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.
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 5, 8, and 6. This connection is for uplift only and does not consider lateral 8) forces
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Harper
20040140	V2	Valley	1	1	Job Reference (optional)

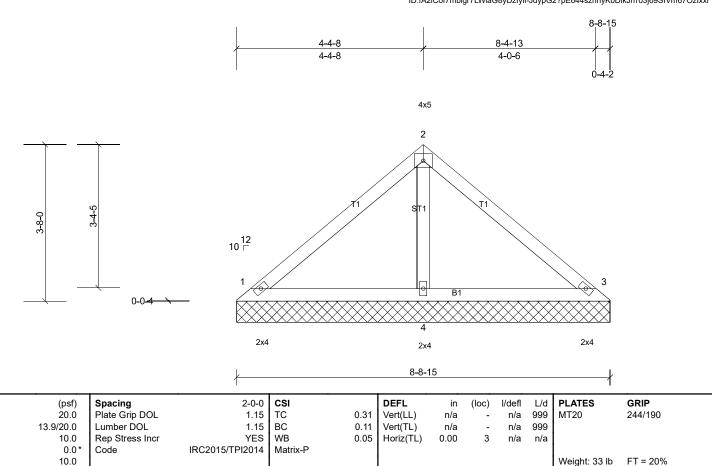
Run: 8.33 S Apr 7 2020 Print: 8.330 S Apr 7 2020 MiTek Industries, Inc. Thu May 07 09:28:40 Page: 1
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Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

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

Installation guide.



BRACING

TOP CHORD

BOT CHORD

LUMBER

Scale = 1:27

Loading

TCDL

BCLL

BCDL

TCLL (roof)

Snow (Pf/Pg)

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

OTHERS 2x4 SP No.3

REACTIONS (lb/size) 1=152/8-8-15, (min. 0-1-8), 3=152/8-8-15, (min. 0-1-8),

4=237/8-8-15, (min. 0-1-8)

Max Horiz 1=66 (LC 10)

Max Uplift 1=-14 (LC 14), 3=-20 (LC 14)

Max Grav 1=183 (LC 2), 3=183 (LC 2), 4=272 (LC 2)

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.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 5) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- 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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 3. This connection is for uplift only and does not consider lateral forces.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	Harper
20040140	V3	Valley	1	1	Job Reference (optional)

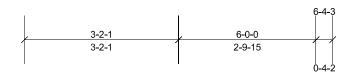
Run: 8.33 S Apr 7 2020 Print: 8.330 S Apr 7 2020 MiTek Industries, Inc. Thu May 07 09:28:40 Page: 1
ID:fA2lCol7mblgr7LWlaG8yDzlyli-JdypG2?pE644szhhyK0DlkJtTr1zj6TSlVm67Ozlxxr

Structural wood sheathing directly applied or 6-0-0 oc purlins.

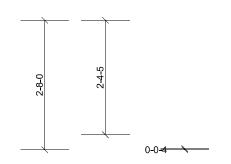
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer

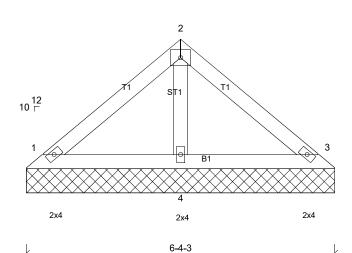
Rigid ceiling directly applied or 10-0-0 oc bracing.

Installation guide.



4x5





Scale = 1:23.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-P								
BCDL	10.0										Weight: 23 lb	FT = 20%

BRACING TOP CHORD

BOT CHORD

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.3

REACTIONS (lb/size) 1=106/6-4-3, (min. 0-1-8), 3=106/6-4-3, (min. 0-1-8),

4=166/6-4-3, (min. 0-1-8)

Max Horiz 1=46 (LC 10)

Max Uplift 1=-10 (LC 14), 3=-14 (LC 14)

Max Grav 1=128 (LC 2), 3=128 (LC 2), 4=191 (LC 2)

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

NOTES

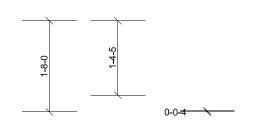
- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 5) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- 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) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 3. This connection is for uplift only and does not consider lateral forces.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

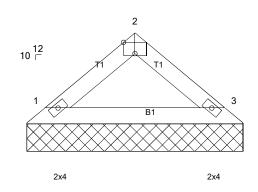
Job	Truss	Truss Type	Qty	Ply	Harper
20040140	V4	Valley	1	1	Job Reference (optional)

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3-11-6 1-11-11 3-7-4 1-11-11 1-7-9







3-11-6

Installation guide.

Weight: 12 lb

Structural wood sheathing directly applied or 3-11-6 oc purlins.

installed during truss erection, in accordance with Stabilizer

MiTek recommends that Stabilizers and required cross bracing be

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

FT = 20%

Scale = 1:21

Plate Offsets (X, Y): [2:0-2-8,Edge] Loading Spacing 2-0-0 CSI DEFL I/defl L/d **PLATES GRIP** (psf) in (loc) Plate Grip DOL 0.04 244/190 TCLL (roof) 20.0 1.15 TC Vert(LL) n/a n/a 999 MT20 Snow (Pf/Pg) 13.9/20.0 Lumber DOL 1.15 BC 0.09 Vert(TL) n/a n/a 999

3 **TCDL** 10.0 Rep Stress Incr YES WB 0.00 Horiz(TL) 0.00 n/a n/a IRC2015/TPI2014 **BCLL** Matrix-P 0.0 Code **BCDL** 10.0

 LUMBER
 BRACING

 TOP CHORD
 2x4 SP No.2
 TOP CHORD

 BOT CHORD
 2x4 SP No.2
 BOT CHORD

REACTIONS (lb/size) 1=108/3-11-6, (min. 0-1-8), 3=108/3-11-6, (min. 0-1-8)

Max Horiz 1=26 (LC 12)

Max Grav 1=128 (LC 2), 3=128 (LC 2)

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

FORCES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (2) 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=1.33
- 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) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 5) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- 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.
- B) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.