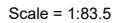


Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:37
ID:yrTRdBMesa5poPYWZEdxw?zQX0U-I4TUP9XFX6s7Np9DoC5Qdkwkh_UBuw43jtTW0yy8PW



LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SPF No.2
WEBS 2x4 SPF No.2 *Except* 8-6:2x4 SP No.2 P

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.
WEBS 1 Row at midpt 2-12, 3-11

REACTIONS (size) 8=3-08, (min. 1-08), 12=3-08, (min. 3-04)
Max Horiz 12=-259 (LC 4)
Max Uplift 8=-76 (LC 25), 12=-157 (LC 9)
Max Grav 8=385 (LC 20), 12=2068 (LC 1)

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

TOP CHORD 1-2=-25/370, 2-3=-40/395, 3-4=-79/342, 5-6=-276/115, 6-8=-339/102

BOT CHORD 13-16=-303/75, 16-17=-303/75, 12-17=-303/75, 11-12=-916/268

WEBS 2-13=-56/514, 2-12=-1792/163, 2-11=-32/1107, 3-11=-611/15, 4-11=-394/188, 4-9=0/258, 1-13=-263/118

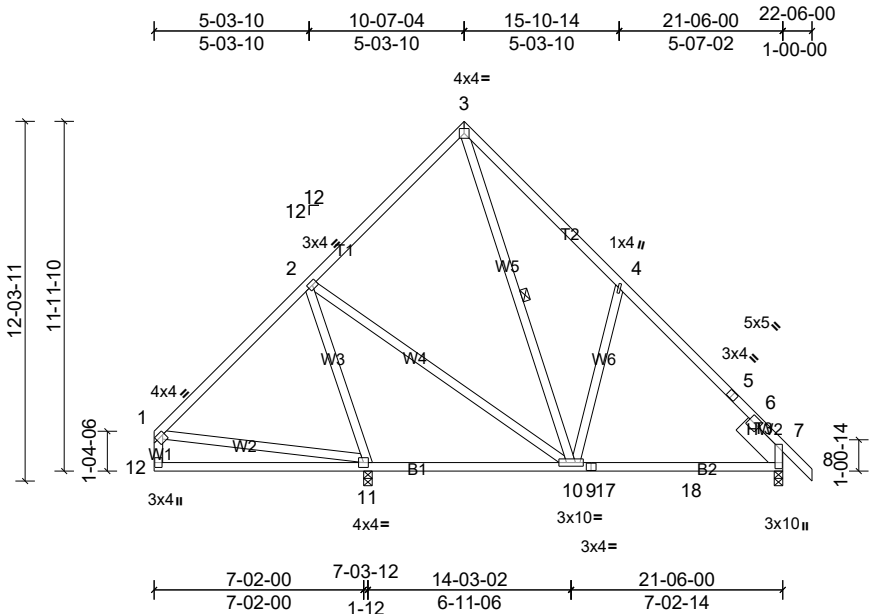
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; 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.

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15,
Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-6=-60, 6-7=-60, 8-14=-20
Concentrated Loads (lb)
Vert: 15=-209 (F), 16=-209 (F), 17=-209 (F)

Job	Truss	Truss Type	Qty	Ply	
21040572	A2	Common	2	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:37
ID:nklIHJQEKRCiNzjCOQQwMzhzQX0f-I4TUP9XF6s7Np9DoC5QdkwI0hzQBol43jtTW0yv8PW

Page: 1



Scale = 1:79.1

Loading	(psf)	Spacing		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.07	10-15	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(TL)	-0.15	10-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.87	Horiz(TL)	-0.04	7	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH							Weight: 115 lb	FT = 20%

- LUMBER**
- TOP CHORD 2x4 SPF No.2
- BOT CHORD 2x4 SPF No.2
- WEBS 2x4 SPF No.2
- SLIDER Right 2x8 SPF No.2 -- 1-11-00
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 11 and 13 lb uplift at joint 7.
- 7) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- 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.
- WEBS 1 Row at midpt 3-10
- REACTIONS** (size) 7=3-08, (min. 1-08), 11=3-08, (min. 2-00)
- Max Horiz 11=-254 (LC 8)
- Max Uplift 7=-13 (LC 10), 11=-24 (LC 11)
- Max Grav 7=545 (LC 22), 11=1279 (LC 1)
- LOAD CASE(S)** Standard

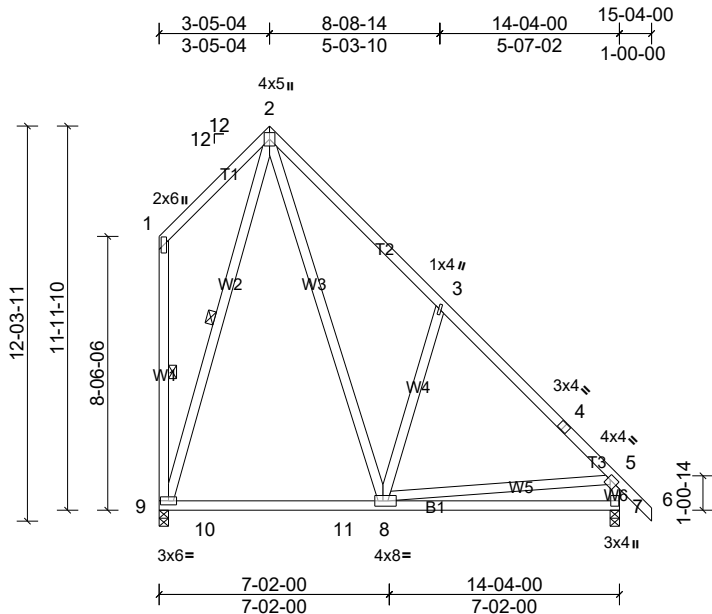
- FORCES**
- (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
- TOP CHORD 1-2=-143/342, 2-3=-340/167, 3-4=-398/208, 4-5=-355/83, 5-6=-432/45, 6-7=-332/0
- BOT CHORD 10-11=-606/315, 9-10=0/279, 9-17=0/279, 17-18=0/279, 7-18=0/279
- WEBS 2-11=-1143/339, 2-10=-102/801, 4-10=-346/257, 1-11=-247/265

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21040572	A3	Common	9	1	

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:37
ID:nkIHJQEKRCiNzjCOQQwMzhzQX0f-I4TUP9XF6s7Np9DoC5QdkwmYhxpBun43jTW0yv8PW

Page: 1



Scale = 1:72

Loading	(psf)	Spacing	2-00-00	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.14	8-9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(TL)	-0.22	8-9	>765	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH							Weight: 94 lb	FT = 20%

LUMBER		
TOP CHORD	2x4 SPF No.2	
BOT CHORD	2x4 SPF No.2	
WEBS	2x4 SPF No.2 *Except* 7-5:2x4 SP No.2 P	
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	1-9, 2-9
REACTIONS (size)		
	7=3-08, (min. 1-08), 9=3-08, (min. 1-08)	
	Max Horiz	9=-338 (LC 6)
	Max Uplift	9=-84 (LC 11)
	Max Grav	7=633 (LC 1), 9=673 (LC 18)
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	1-2=-248/264, 2-3=-525/254, 3-4=-452/93, 4-5=-624/61, 5-7=-573/122	
WEBS	2-8=-176/556, 3-8=-338/248, 2-9=-549/157, 5-8=-53/312	

- Lumber designated with a "P" is pressure-treated with preservatives. Plate lateral resistance values have been reduced 20% where used in this lumber. Plates should be protected from corrosion per the recommendation of the treatment company. Borate or other suitable treatment may be used if it does not corrode the plates. If ACQ, CBA, or CA-B treated lumber is used, improved corrosion protection is required, and G185 galvanized plates may be used with this design. Incising factors have not been considered for this design. Building designer to verify suitability of this product for its intended use.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 9.
- This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

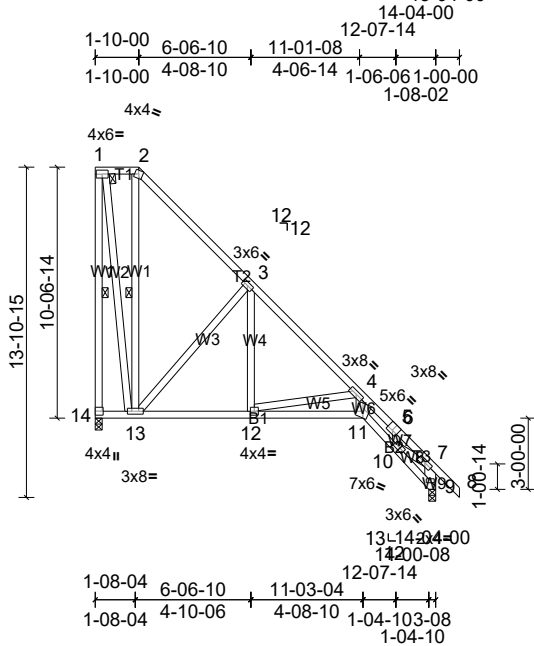
LOAD CASE(S) Standard

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
 - 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	
21040572	A8	Roof Special	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:38
ID: Q21prXNscuDgPZ7i7y8ATDz6C04160UP9XF6s7Np9DoC5QdkwilhsKBul43jtTW0yv8PW

Page: 1



Scale = 1:97.4

Loading	(psf)	Spacing		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.11	11-12	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(TL)	-0.28	11-12	>595	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.46	Horiz(TL)	0.28	9	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH							Weight: 101 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except* 9-7:2x6 SPF No.2,
10-7:2x4 SPF 2100F 1.8E

BRACING

TOP CHORD Structural wood sheathing directly applied or
3-10-9 oc purlins, except end verticals, and
2-0-0 oc purlins (6-0-0 max.): 1-2.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing, Except:
6-0-0 oc bracing: 9-10.
WEBS 1 Row at midpt 1-14, 2-13

REACTIONS (size) 9=3-08, (min. 1-08), 14=3-08, (min.
1-08)

Max Horiz 14=-387 (LC 6)
Max Uplift 9=-20 (LC 11), 14=-87 (LC 6)
Max Grav 9=638 (LC 1), 14=557 (LC 1)

FORCES

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

TOP CHORD 1-14=-529/145, 2-3=-311/146, 3-4=-642/44,
4-5=-2026/0, 5-6=-2030/0, 6-7=-1786/0,
7-9=-651/49
BOT CHORD 13-14=-208/336, 12-13=0/490, 11-12=0/1169,
10-11=0/1757
WEBS 1-13=-107/523, 3-13=-496/138, 4-11=0/1154,
6-10=-417/0, 3-12=0/365, 4-12=-743/51,
7-10=0/1612

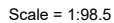
NOTES

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V
(IRC2012)=91mph; TCCL=6.0psf; BCDL=6.0psf; h=35ft;
Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior
zone 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=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.

- 5) All bearings are assumed to be SPF No.2 crushing
capacity of 425 psi.
- 6) Bearing at joint(s) 9 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 87 lb uplift at joint
14 and 20 lb uplift at joint 9.
- 8) This truss is designed in accordance with the 2012
International Residential Code sections R502.11.1 and
R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size
or the orientation of the purlin along the top and/or
bottom chord.

LOAD CASE(S) Standard

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:38 Page: 1
ID:7i5AM8ITgkLg4U5MDzWXgkzQX0a-I4TUP9XFX6s7Np9DoC5QdkwhkhzwBxZ43jtW0yv8PW



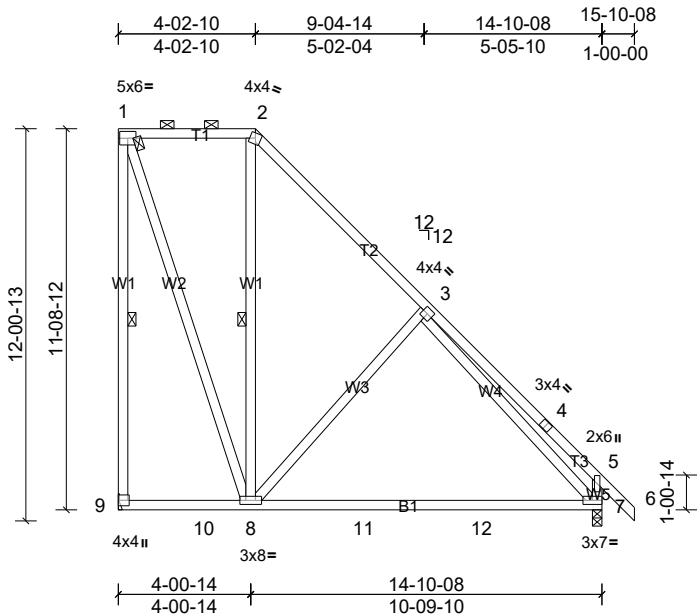
LUMBER	
TOP CHORD	2x4 SPF 2400F 2.0E
BOT CHORD	2x4 SPF 2400F 2.0E
WEBS	2x4 SPF No.2 *Except* 6-8:2x6 SP 2400F 2.0E, 10-3:2x8 SPF No.2, 9-6:2x4 SPF 2100F 1.8E
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 5-7-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 8-9.
WEBS	1 Row at midpt 1-12, 2-12
REACTIONS	(size) 8=3-08, (min. 1-08), 12= Mechanical, (min. 1-08)
	Max Horiz 12=-427 (LC 6)
	Max Uplift 8=-1 (LC 11), 12=-122 (LC 11)
	Max Grav 8=624 (LC 1), 12=598 (LC 18)
FORCES	
	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-264/141, 2-3=-639/56, 3-4=-2076/0, 4-5=-2129/0, 5-6=-1898/0, 6-8=-660/43
BOT CHORD	11-12=-26/483, 10-11=0/1095, 9-10=0/1845
WEBS	2-12=-538/162, 2-11=0/387, 3-11=-650/57, 3-10=0/1232, 5-9=-399/0, 6-9=0/1693

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Bearings are assumed to be: , Joint 8 SPF 2400F 2.OE crushing capacity of 615 psi.
- 5) Refer to girder(s) for truss to truss connections.

Job	Truss	Truss Type	Qty	Ply	
21040572	B10	Roof Special	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:38
ID:rLAWuIC4vbSfkP20I?uuuGzQX0h-l4TUP9XFX6s7Np9DoC5Qdkwe3hs6BwZ43jTW0yv8PW

Page: 1



Scale = 1:71.2

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.35	7-8	>502	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(TL)	-0.83	7-8	>210	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.35	Horiz(TL)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH							Weight: 98 lb	FT = 20%

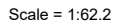
LUMBER		
TOP CHORD	2x4 SPF No.2	
BOT CHORD	2x4 SPF No.2	
WEBS	2x4 SPF No.2 *Except* 7-5:2x4 SP No.2 P	
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2.	
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.	
WEBS	1 Row at midpt	1-9, 2-8
REACTIONS (size)		
	7=3-08, (min. 1-08), 9=	
	Mechanical, (min. 1-08)	
	Max Horiz	9=-367 (LC 6)
	Max Uplift	9=-142 (LC 6)
	Max Grav	7=683 (LC 17), 9=654 (LC 18)
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	1-9=-636/115, 1-2=-280/175, 2-3=-439/169, 3-4=-366/143, 4-5=-524/112, 5-7=-513/166	
BOT CHORD	9-10=-191/292, 8-10=-191/292, 8-11=0/396, 11-12=0/396, 7-12=0/396	
WEBS	1-8=-105/625, 3-8=-300/226	

- NOTES**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCCL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
 - 2) Provide adequate drainage to prevent water ponding.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

- 5) Lumber designated with a "P" is pressure-treated with preservatives. Plate lateral resistance values have been reduced 20% where used in this lumber. Plates should be protected from corrosion per the recommendation of the treatment company. Borate or other suitable treatment may be used if it does not corrode the plates. If ACQ, CBA, or CA-B treated lumber is used, improved corrosion protection is required, and G185 galvanized plates may be used with this design. Incising factors have not been considered for this design. Building designer to verify suitability of this product for its intended use.
- 6) Bearings are assumed to be: , Joint 7 SPF No.2 crushing capacity of 425 psi.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 142 lb uplift at joint 9.
- 9) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:38
ID:rLAWuIC4vbSfkP20I?uuuGzQX0h-l4TUP9XFX6s7Np9DoC5QdkwkWhxuBxd43jtTW0yy8PW

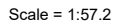


- 5) Lumber designated with a "P" is pressure-treated with preservatives. Plate lateral resistance values have been reduced 20% where used in this lumber. Plates should be protected from corrosion per the recommendation of the treatment company. Borate or other suitable treatment may be used if it does not corrode the plates. If ACQ, CBA, or CA-B treated lumber is used, improved corrosion protection is required, and G185 galvanized plates may be used with this design. Incising factors have not been considered for this design. Building designer to verify suitability of this product for its intended use.
- 6) Bearings are assumed to be: , Joint 6 SPF No.2 crushing capacity of 425 psi.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 8 and 7 lb uplift at joint 6.
- 9) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

- ## NOTES
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TC DL=6.0psf; BC DL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
 - 2) Provide adequate drainage to prevent water ponding.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:38
ID:M9d8hPBR9HKp6GTplInfM2zQX0i-I4TUP9XFX6s7Np9DoC5Qdkwh_hyMBxo43jtTW0yv8PW



LUMBER		9) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
TOP CHORD	2x4 SPF No.2	
BOT CHORD	2x4 SPF No.2	

BRACING	
TOP CHORD	Structural wood sheathing directly applied or 5-2-3 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS	(size) 5=3-08, (min. 1-08), 7= Mechanical, (min. 1-08)
Max Horiz	7=-194 (LC 8)
Max Uplift	5=-18 (LC 11), 7=-13 (LC 11)
Max Grav	5=655 (LC 1), 7=581 (LC 1)

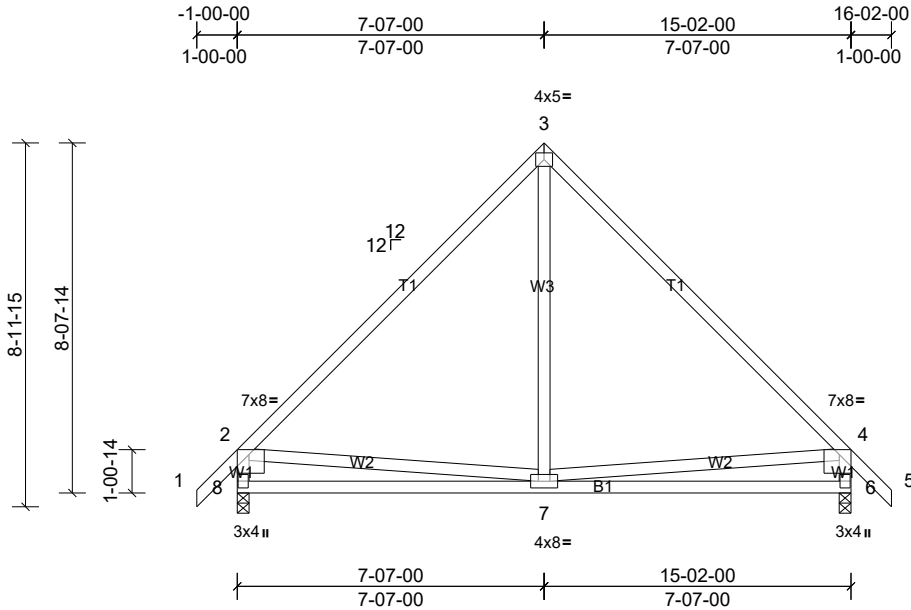
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-556/94, 2-3=-575/100, 1-7=-518/83, 3-5=-589/126
BOT CHORD	6-7=-199/327, 5-6=-241/434
WEBS	2-6=0/309, 3-6=-273/392

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 3) The Fabrication Tolerance at joint 3 = 12%
- 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) Bearings are assumed to be: , Joint 5 SPF No.2 crushing capacity of 425 psi.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 7 and 18 lb uplift at joint 5.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21040572	B14	Common	2	1	

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:38
ID:y7_sB?sB?auROEPK0Ln3JQw6bzQX0D-I4TUP9XFX6s7Np9DoC5Qdkwijhy9Bxs43jtTW0yv8PW

Page: 1



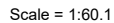
Scale = 1:57.2

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.06	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(TL)	-0.15	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.26	Horiz(TL)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH							Weight: 73 lb	FT = 20%

LUMBER		8) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
TOP CHORD	2x4 SPF No.2	
BOT CHORD	2x4 SPF No.2	
WEBS	2x4 SPF No.2	
BRACING		LOAD CASE(S) Standard
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
REACTIONS (size)		
	6=3-08, (min. 1-08), 8=3-08, (min. 1-08)	
	Max Horiz 8=199 (LC 9)	
	Max Uplift 6=-18 (LC 11), 8=-18 (LC 10)	
	Max Grav 6=664 (LC 1), 8=664 (LC 1)	
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	2-3=-587/99, 3-4=-587/99, 2-8=-599/125, 4-6=-599/125	
BOT CHORD	7-8=-335/539, 6-7=-243/438	
WEBS	3-7=0/329, 2-7=-270/391, 4-7=-269/395	

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
 - The Fabrication Tolerance at joint 2 = 12%, joint 4 = 12%
 - 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.
 - All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 8 and 18 lb uplift at joint 6.

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:38 Page: 1
ID:UwRU_fZG4V6YjtnaVbvvhZNzQX0E-I4TUP9XF6s7Np9DoC5QdkwRh1TB_D43jtTW0yv8PW

LOAD CASE(S) Standard

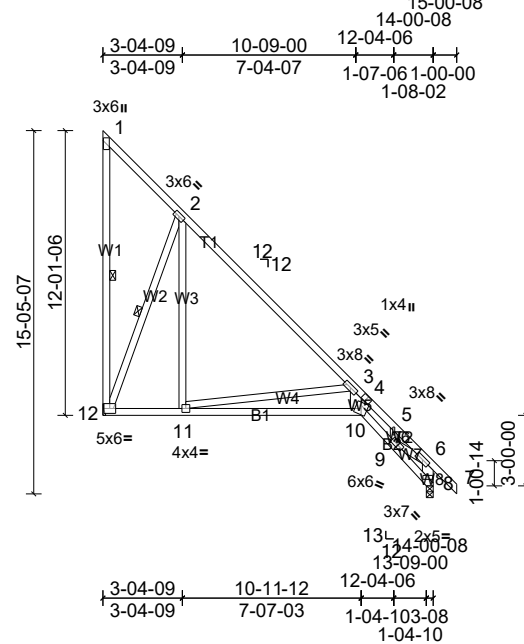
NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: Design 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 1x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2'-0" oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0" tall by 2'-0" wide will fit between the bottom chord and any other members.

Job	Truss	Truss Type	Qty	Ply	
21040572	B2	Roof Special	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:38
ID:cufYaUI512TXhefYmh1mDyzQX0Z-l4TUP9XF6s7Np9DoC5QdkwhXhx8BnZ43jtTW0yv8PW

Page: 1



Scale = 1:98.4

[illegible]

LUMBER

TOP CHORD 2x4 SPF 2400F 2.0E
BOT CHORD 2x4 SPF 2400F 2.0E
WEBS 2x4 SPF No.2 *Except* 10-3:2x6 SP No.2,
8-6:2x6 SPF No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-3-14 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 8-9.
WEBS	1 Row at midpt 1-12, 2-12

REACTIONS

(size) 8=3-08, (min. 1-08), 12=
Mechanical, (min. 1-08)
Max Horiz 12=-427 (LC 6)
Max Uplift 8=-1 (LC 11), 12=-122 (LC 11)
Max Grav 8=624 (LC 1), 12=598 (LC 18)

FORCES

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

TOP CHORD 2-3=-519/103, 3-4=-2250/0, 4-5=-2291/0,
5-6=-2052/0, 6-8=-709/75

BOT CHORD 11-12=-81/371, 10-11=0/1250, 9-10=0/2006
WEBS 2-12=-631/203, 2-11=-6/412, 3-11=-970/167,
3-10=0/1362, 5-9=-411/0, 6-9=0/1844

NOTES

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Bearings are assumed to be: , Joint 8 SPF 2400F 2.0E crushing capacity of 615 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

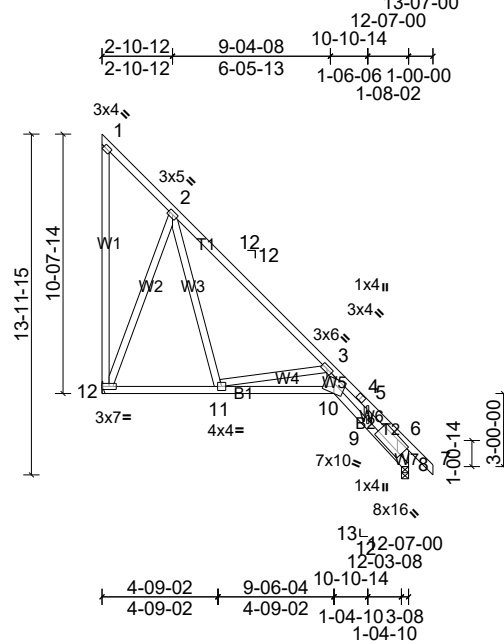
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 12 and 1 lb uplift at joint 8.
- 8) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
21040572	B3	Roof Special	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:38
ID: YkkSsYw0ZDR3sjDPuzSGwCzQX13-l4TUP9XFx6s7Np9DoC5QdkwdChqeBtD43jtTW0yv8PW

Page: 1



Scale = 1:95

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.23	10-11	>644	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(TL)	-0.55	10-11	>264	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horiz(TL)	0.58	8	n/a	n/a		
BCDL	10.0	Code	IRC2012/TP12007	Matrix-MSH							Weight: 76 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SPF No.2 *Except* 4-7:2x4 SPF 1650F 1.5E
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2 *Except* 8-6:2x6 SP 2400F 2.0E

BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 8-9.

REACTIONS

(size) 8=3-08, (min. 1-08), 12=
Mechanical, (min. 1-08)
Max Horiz 12=-382 (LC 6)
Max Uplift 8=-8 (LC 11), 12=-103 (LC 11)
Max Grav 8=566 (LC 1), 12=530 (LC 18)

FORCES

(lb) or less except when shown.

TOP CHORD	2-3=-534/67, 3-4=-1374/0, 4-5=-1417/0, 5-6=-1656/0, 6-8=-1444/0
BOT CHORD	11-12=-88/318, 10-11=0/860, 9-10=0/1182, 8-9=0/1345
WEBS	2-12=-522/183, 3-10=0/681, 5-9=-31/265, 2-11=0/365, 3-11=-594/166

NOTES

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC 2012)=91mph; TC DL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 2) The Fabrication Tolerance at joint 6 = 16%
- 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) Bearings are assumed to be: , Joint 8 SPF No.2 crushing capacity of 425 psi.
- 6) Refer to girder(s) for truss to truss connections.

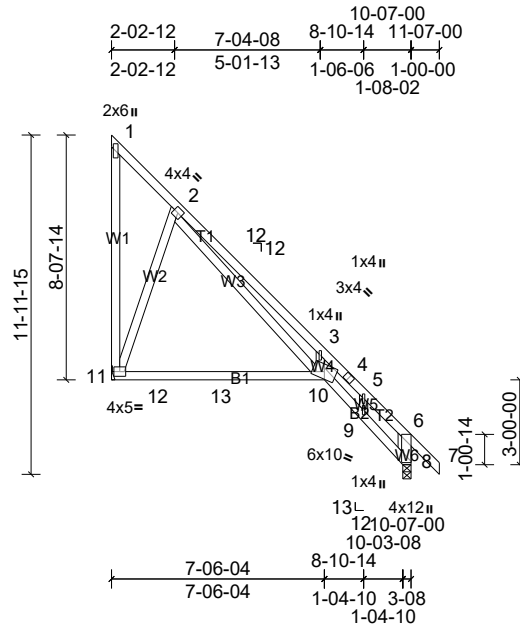
- 7) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 12 and 8 lb uplift at joint 8.
- 9) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
21040572	B4	Roof Special	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:38
ID:0wHq4tweKWZwTtobSg_VTPzQX12-DG0scVYtIP_zkQLvcfAxSqE5EOwO1DHMD03Tyv8PV

Page: 1



Scale = 1:81.8

[illegible]

LUMBER

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2 *Except* 8-6:2x6 SPF No.2

BRACING

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

REACTIONS

(size) 8=3-08, (min. 1-08), 11=
Mechanical, (min. 1-08)
Max Horiz 11=-321 (LC 6)
Max Uplift 8=-18 (LC 11), 11=-78 (LC 11)
Max Grav 8=487 (LC 1), 11=486 (LC 18)

FORCES

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

TOP CHORD 2-3=-1030/172, 3-4=-1206/0, 4-5=-1254/0,
5-6=-1342/0, 6-8=-1166/0

BOT CHORD 11-12=-89/263, 12-13=-89/263,
10-13=-89/263, 9-10=0/1065, 8-9=0/1078

WEBS 2-11=-382/154, 2-10=-175/897,
3-10=-104/348

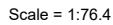
NOTES

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 4) Bearings are assumed to be: , Joint 8 SPF No.2 crushing capacity of 425 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 11 and 18 lb uplift at joint 8.
- 8) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1.

LOAD CASE(S) Standard

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:38
ID:U6rCHDxG5qhn51Nn0OVk?dzQX11-l4TUP9XFX6s7Np9DoC5Qdkwl7hyNByk43jtTW0yy8PW



LUMBER

BRACING

WEBS	1 Row at midpt	1-8
------	----------------	-----

BOT CHORD 6-7=-70/250
WEBS 2-9=-347/225, 7-9=-96/441

NOTES

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-00" tall by 2'-00" wide will fit between the bottom chord and any other members.

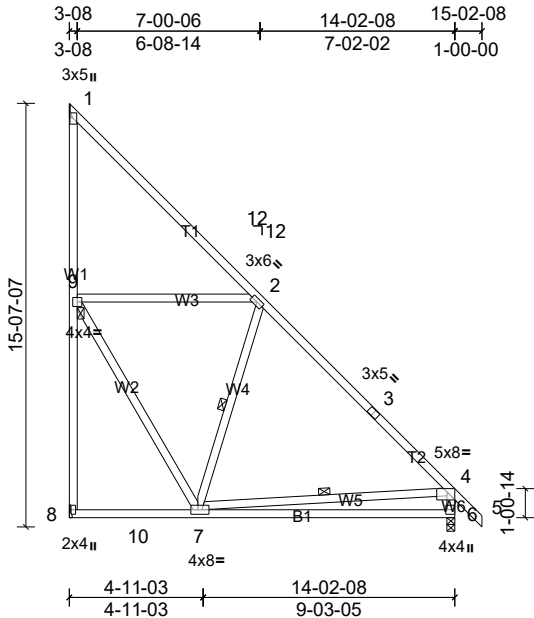
- 4) Lumber designated with a "P" is pressure-treated with preservatives. Plate lateral resistance values have been reduced 20% where used in this lumber. Plates should be protected from corrosion per the recommendation of the treatment company. Borate or other suitable treatment may be used if it does not corrode the plates. If ACQ, CBA, or CA-B treated lumber is used, improved corrosion protection is required, and G185 galvanized plates may be used with this design. Incising factors have not been considered for this design. Building designer to verify suitability of this product for its intended use.
- 5) Bearings are assumed to be: , Joint 6 SPF No.2 crushing capacity of 425 psi.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 8, 32 lb uplift at joint 1 and 55 lb uplift at joint 6.
- 8) Non Standard bearing condition. Review required.
- 9) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
21040572	B6	Roof Special	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:38
ID:yJPaUZyvs8pejByza50zYqzQX10-l4TUP9XFX6s7Np9DoC5QdkwjdhvpBwy43jtTW0yv8PW

Page: 1



Scale = 1:85.3

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.19	6-7	>899	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(TL)	-0.47	6-7	>359	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.32	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH							Weight: 96 lb	FT = 20%

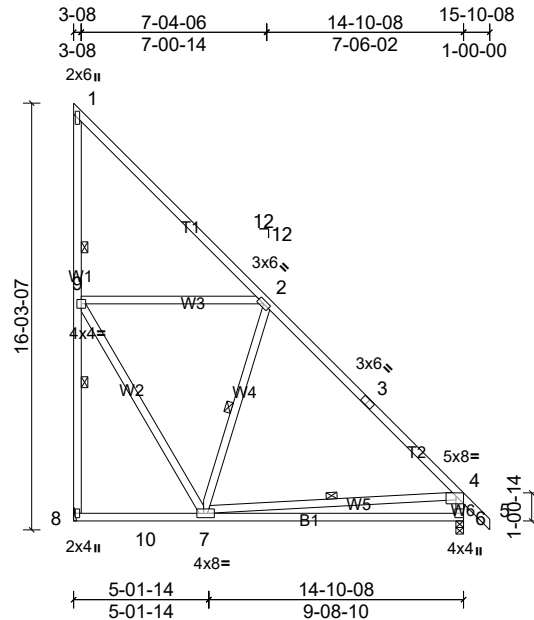
LUMBER	
TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2 *Except* 6-4:2x4 SP No.2 P
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 1-8, 2-7, 4-7
REACTIONS (size)	
	1= Mechanical, (min. 1-08), 6=3-08, (min. 1-08), 8= Mechanical, (min. 1-08)
Max Horiz	1=-237 (LC 17), 8=-261 (LC 6)
Max Uplift	1=-33 (LC 11), 6=-66 (LC 11), 8=-40 (LC 6)
Max Grav	1=480 (LC 1), 6=509 (LC 1), 8=282 (LC 18)
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-92/341, 3-4=-374/105, 4-6=-422/163
BOT CHORD	6-7=-105/341
WEBS	2-7=-259/203, 2-9=-400/253, 7-9=-110/530

- NOTES**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCCL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

- 4) Lumber designated with a "P" is pressure-treated with preservatives. Plate lateral resistance values have been reduced 20% where used in this lumber. Plates should be protected from corrosion per the recommendation of the treatment company. Borate or other suitable treatment may be used if it does not corrode the plates. If ACQ, CBA, or CA-B treated lumber is used, improved corrosion protection is required, and G185 galvanized plates may be used with this design. Incising factors have not been considered for this design. Building designer to verify suitability of this product for its intended use.
- 5) Bearings are assumed to be: , Joint 6 SPF No.2 crushing capacity of 425 psi.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 8, 33 lb uplift at joint 1 and 66 lb uplift at joint 6.
- 8) Non Standard bearing condition. Review required.
- 9) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:39
ID:JYku65DiguaWMZdCsjP7RTzQX0g-l4TUP9XF6s7Np9DoC5QdkwiphvsBwE43jtTW0yv8PW



Scale = 1:88.3

[illegible]

LUMBER

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except* 6-4:2x4 SP No.2 P

BRACING

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

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

WEBS	1 Row at midpt	2-7, 4-7
WEBS	2 Rows at 1/3 pts	1-8

REACTIONS (size) 6=3-08, (min. 1-08), 8= Mechanical, (min. 1-08)
 Max Horiz 8=-491 (LC 6)
 Max Uplift 8=-208 (LC 6)
 Max Grav 6=706 (LC 17), 8=758 (LC 18)

FORCES

(lb) or less except when shown.

TOP CHORD 8-9=-681/213, 2-3=-457/106, 3-4=-692/71,
4-6=-617/126

BOT CHORD 8-10=-285/446, 7-10=-285/446, 6-7=-113/377
WEBS 2-7=-270/207, 4-7=-253/332, 2-9=-416/264,
7-9=-130/555

NOTES

1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TC DL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60

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

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

4) Lumber designated with a "P" is pressure-treated with preservatives. Plate lateral resistance values have been reduced 20% where used in this lumber. Plates should be protected from corrosion per the recommendation of the treatment company. Borate or other suitable treatment may be used if it does not corrode the plates. If ACQ, CBA, or CA-B treated lumber is used, improved corrosion protection is required, and G185 galvanized plates may be used with this design. Incising factors have not been considered for this design. Building designer to verify suitability of this product for its intended use.

5) Bearings are assumed to be: , Joint 6 SPF No.2
crushing capacity of 425 psi.

6) Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 208 lb uplift at joint 8.

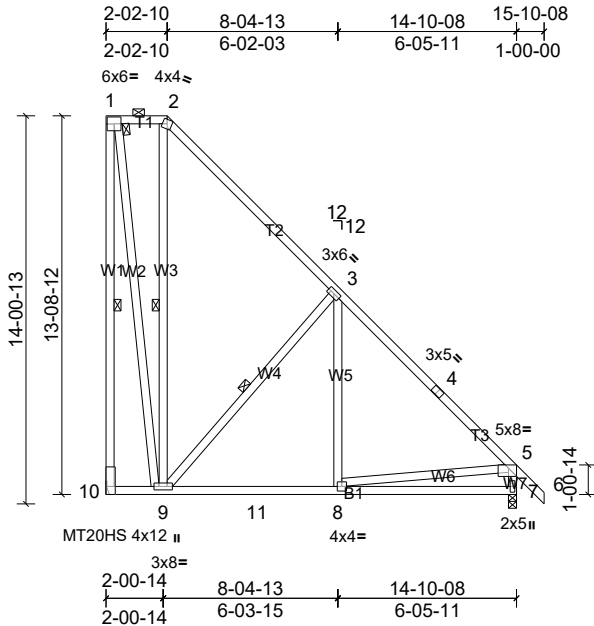
8) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
21040572	B9	Roof Special	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:39
ID:JYku65DiguaWMZdCsJP7RTzQX0g-l4TUP9XFX6s7Np9DoC5QdkwgEhylBto43jtTW0yv8PW

Page: 1



Loading	(psf)	Spacing	2-00-00	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.04	8-9	>999	240	MT20HS 148/108
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(TL)	-0.10	8-9	>999	180	MT20 197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.52	Horiz(TL)	0.01	7	n/a	n/a	
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH							Weight: 113 lb FT = 20%

LUMBER		
TOP CHORD	2x4 SPF No.2	
BOT CHORD	2x4 SPF No.2	
WEBS	2x4 SPF No.2 *Except* 10-1:2x4 SPF 2100F 1.8E	
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
WEBS	1 Row at midpt	1-10, 2-9, 3-9
REACTIONS	(size)	7=3-08, (min. 1-08), 10= Mechanical, (min. 1-08)
	Max Horiz	10=-429 (LC 6)
	Max Uplift	10=-173 (LC 6)
	Max Grav	7=693 (LC 17), 10=657 (LC 18)
FORCES		
	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-10=-636/208, 2-3=-381/195, 3-4=-500/83, 4-5=-702/53, 5-7=-641/107	
BOT CHORD	9-10=-220/341, 9-11=-4/458, 8-11=-4/458	
WEBS	1-9=-160/672, 3-9=-475/216, 3-8=0/263, 5-8=-75/328	

- NOTES**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
 - 2) Provide adequate drainage to prevent water ponding.
 - 3) All plates are MT20 plates unless otherwise indicated.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Bearings are assumed to be: , Joint 7 SPF No.2 crushing capacity of 425 psi.
 - 7) Refer to girder(s) for truss to truss connections.

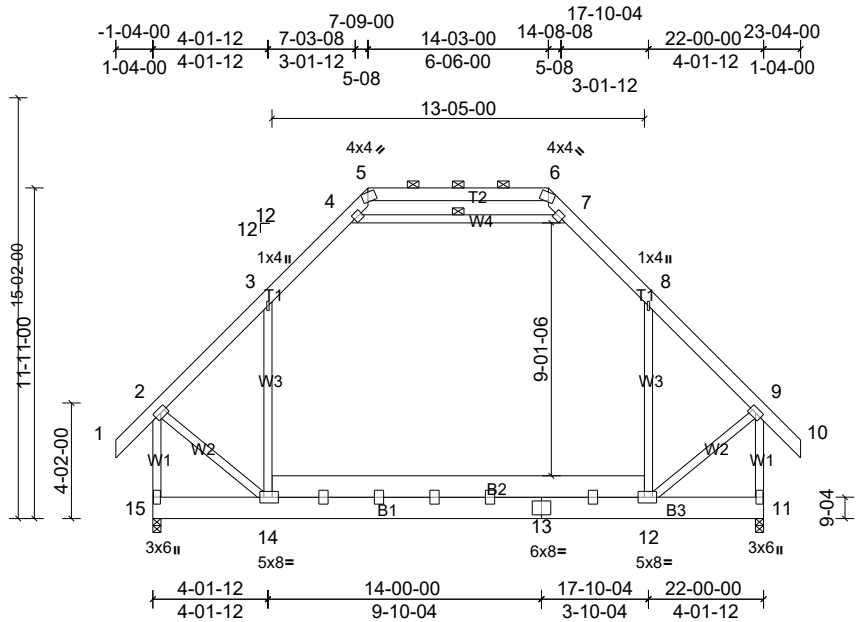
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 173 lb uplift at joint 10.
- 9) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
21040572	C1	Attic	6	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:39
ID:yrTRdBMesa5poPYWZEdxw?zQX0U-LVnLn7VMEBUYWLQe63Xj?6lCiUyC_XidMlfowhyv8PZ

Page: 1



Scale = 1:83.4

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.15	12-14	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(TL)	-0.21	12-14	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horiz(TL)	0.00	11	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH		Attic	-0.09	12-14	>999	360	Weight: 209 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF No.2
BOT CHORD 2x10 SPF No.2
WEBS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); 5-6.
BOT CHORD Rigid ceiling directly applied or 9-9-4 oc bracing.
WEBS 1 Row at midpt 4-7
This truss requires both edges of the bottom chord be sheathed in the room area.

REACTIONS (size) 11=3-08, (min. 2-01), 15=3-08, (min. 2-01)
Max Horiz 15=292 (LC 9)
Max Grav 11=1314 (LC 2), 15=1314 (LC 2)

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

TOP CHORD 2-3=-945/106, 3-4=-685/172, 4-5=-338/262, 5-6=-258/470, 6-7=-338/262, 7-8=-685/172, 8-9=-944/106, 2-15=-1346/51, 9-11=-1345/51
BOT CHORD 14-15=-274/262, 13-14=-57/618, 12-13=-57/618
WEBS 3-14=-226/354, 8-12=-226/354, 4-7=-951/251, 2-14=-53/797, 9-12=-53/797

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 4x6 MT20 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.

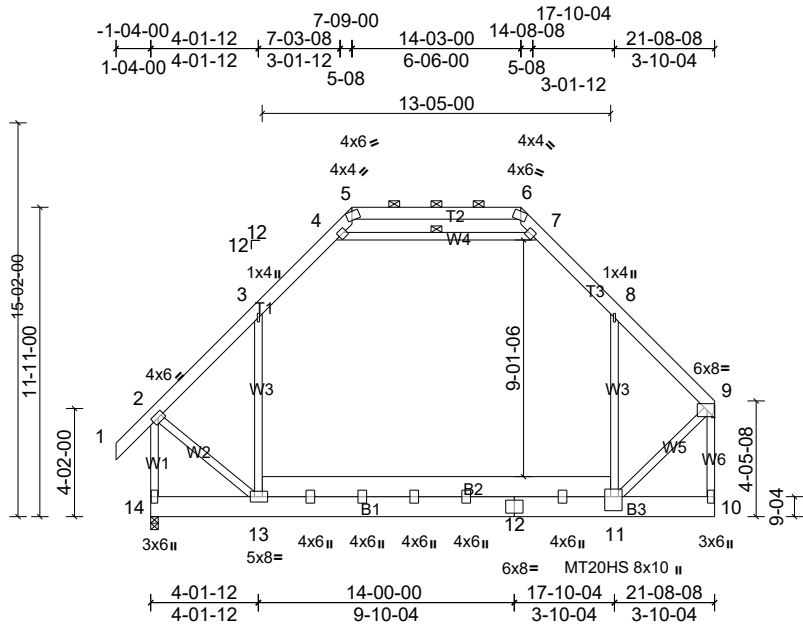
- 7) Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-7
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 12-14
- 9) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 10) This truss is designed in accordance with the 2012 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.
- 12) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
21040572	C2	Attic	10	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:39
ID:7QakoK5oGWC4XtH5jviYU9zQX0r-phLk_TV_?UcP7V?rgn2yYJqMhuHZj_BnbPOMS8yv8PY

Page: 1



Scale = 1:89.1

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.14	11-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(TL)	-0.20	11-13	>999	180	MT20HS	148/108
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horiz(TL)	-0.07	9	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH		Attic	-0.08	11-13	>999	360	Weight: 221 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SPF No.2
WEBS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-7
This truss requires both edges of the bottom chord be sheathed in the room area.

REACTIONS (size) 9= Mechanical, (min. 1-08), 14=3-08, (min. 2-01)
Max Horiz 14=285 (LC 7)
Max Grav 9=1234 (LC 2), 14=1300 (LC 2)

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

TOP CHORD 2-3=-926/93, 3-4=-677/166, 4-5=-345/247, 5-6=-270/447, 6-7=-346/247, 7-8=-677/167, 8-9=-921/83, 2-14=-1320/34
BOT CHORD 13-14=-267/242, 12-13=-72/594, 11-12=-72/594
WEBS 3-13=-234/340, 8-11=-246/344, 4-7=-918/230, 2-13=-51/781, 9-11=-72/829

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) All plates are 4x6 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

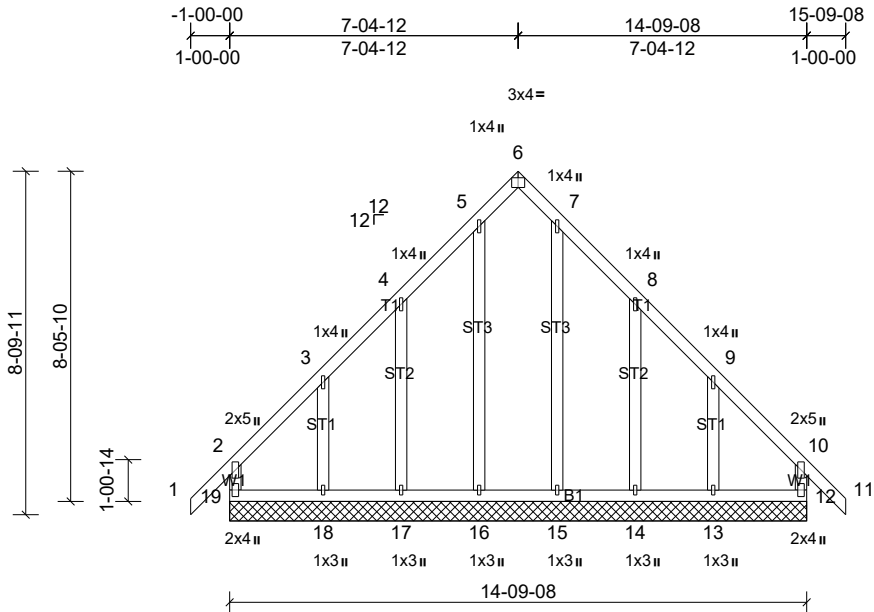
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-7
- 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 11-13
- 10) Bearings are assumed to be: , Joint 14 SPF No.2 crushing capacity of 425 psi.
- 11) Refer to girder(s) for truss to truss connections.
- 12) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 15) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
21040572	D1	Common Supported Gable	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:39
ID:3YA3fCvOovJDEaeCLFx1N_zQX14-Huv6CpWcmokGf1a1EUZB4WNfXhH3SXvwq38v_ayv8PX

Page: 1



Scale = 1:59.3

Loading	(psf)	Spacing	2-00-00	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
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	12	n/a	n/a	
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MR							
Weight: 80 lb FT = 20%											

LUMBER

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

BRACING

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

REACTIONS

All bearings 14-09-08.
(lb) - Max Horiz 19=-195 (LC 8)
Max Uplift All uplift 100 (lb) or less at joint(s)
12, 14, 17, 19 except 13=-157 (LC 11), 18=-160 (LC 10)
Max Grav All reactions 250 (lb) or less at joint (s) 12, 13, 14, 15, 16, 17, 18, 19

FORCES

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

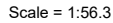
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 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.
- 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.

- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 12, 17, 14 except (jt=lb) 18=159, 13=156.
- This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:39 Page: 1
ID:0wHq4tweKWZwTtobSg_VTPzQX12-Huv6CpWcmokGlfa1EUZB4WNYVHcHSV4wq38v_ayv8PX

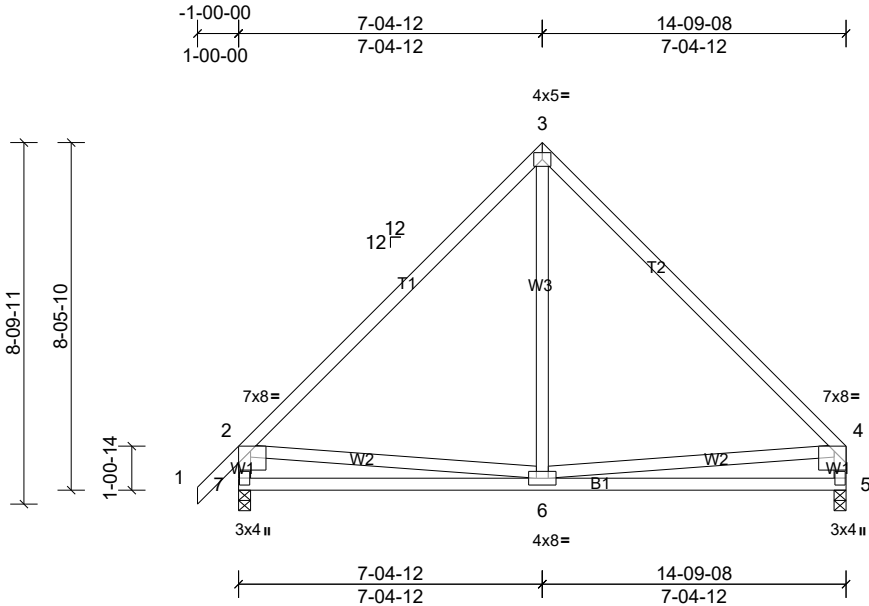


8) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 3) The Fabrication Tolerance at joint 2 = 16%, joint 4 = 16%
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 8 and 18 lb uplift at joint 6.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21040572	D3	Common	1	1	



Scale = 1:56.3

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.06	5-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(TL)	-0.14	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horiz(TL)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH							Weight: 69 lb	FT = 20%

- LUMBER**
- TOP CHORD 2x4 SPF No.2
- BOT CHORD 2x4 SPF No.2
- WEBS 2x4 SPF No.2
- BRACING**
- TOP CHORD Structural wood sheathing directly applied or 4-10-10 oc purlins, except end verticals.
- BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (size) 5=3-08, (min. 1-08), 7=3-08, (min. 1-08)
- Max Horiz 7=188 (LC 7)
- Max Uplift 5=-11 (LC 10), 7=-18 (LC 10)
- Max Grav 5=577 (LC 1), 7=651 (LC 1)
- FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
- TOP CHORD 2-3=-574/99, 3-4=-564/90, 2-7=-588/125, 4-5=-514/84
- BOT CHORD 6-7=-330/497, 5-6=-144/261
- WEBS 3-6=0/315, 2-6=-240/370, 4-6=-126/258

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
 - The Fabrication Tolerance at joint 2 = 16%, joint 4 = 16%
 - 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.
 - All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 7 and 11 lb uplift at joint 5.

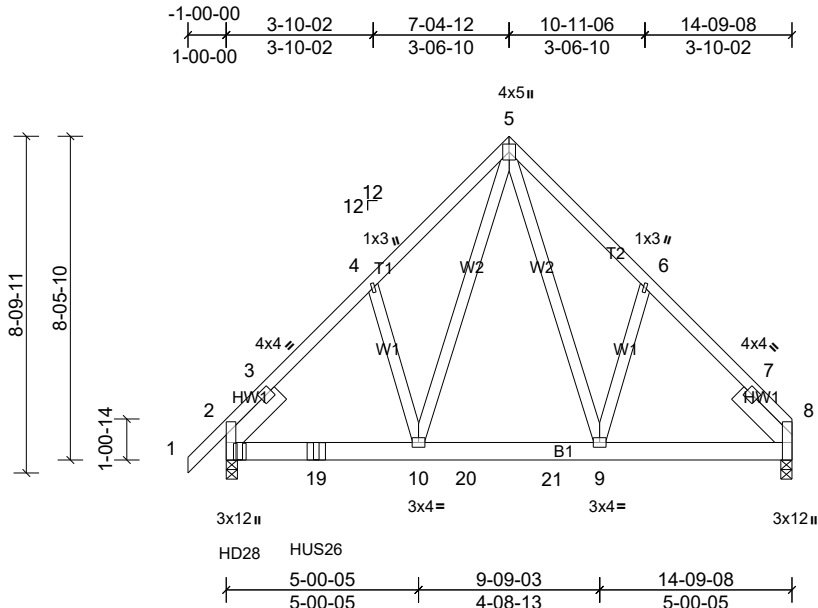
8) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21040572	D4	Common Girder	1	2	

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:39
ID:Y?FtQM7hZRafOL0gO1GF6nzQX0o-Huv6CpWcmokGlfa1EUZB4WNduHXaSWsq38v_ayv8PX

Page: 1



Scale = 1:60.5

Loading	(psf)	Spacing	2-00-00	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.03	10-17	>999	240	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(TL)	-0.08	10-17	>999	180	197/144
BCLL	0.0*	Rep Stress Incr	NO	WB	0.14	Horiz(TL)	0.02	2	n/a	n/a	
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH							
Weight: 179 lb FT = 20%											

LUMBER

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x6 SPF No.2
WEBS	2x4 SPF No.2
SLIDER	Left 2x6 SP No.2 -- 1-11-00, Right 2x6 SP No.2 -- 1-11-00

BRACING

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

REACTIONS	(size) 2=3-08, (min. 2-00), 8=3-08, (min. 1-08)
	Max Horiz 2=163 (LC 7)
	Max Uplift 8=11 (LC 8)
	Max Grav 2=2565 (LC 1), 8=815 (LC 1)

FORCES

	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1637/0, 3-4=-1257/65, 4-5=-1267/145, 5-6=-805/146, 6-7=-844/62, 7-8=-438/0
BOT CHORD	2-19=-83/936, 10-19=-53/936, 10-20=0/530, 20-21=0/530, 9-21=0/530, 8-9=0/556
WEBS	5-10=-126/1176, 4-10=-278/159

NOTES

- 1) Special connection required to distribute top chord loads equally between all plies.
- 2) Special connection required to distribute bottom chord loads equally between all plies.
- 3) Special connection required to distribute web loads equally between all plies.
- 4) 2-ply truss to be connected together with WS6 as follows:
Top chords connected as follows: 2x4 - 1 row at 1-00 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 1-00 oc.
Web connected as follows: 2x4 - 1 row at 1-00 oc.
- 5) 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.
- 6) Unbalanced roof live loads have been considered for this design.

- 7) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; 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
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 8.
- 12) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Use USP HD28 (With 8-16d nails into Girder & 6-10d x 1-1/2 nails into Truss) or equivalent at 0-4-4 from the left end to connect truss(es) to back face of bottom chord.
- 14) Use USP HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent at 2-4-4 from the left end to connect truss(es) to back face of bottom chord.
- 15) Fill all nail holes where hanger is in contact with lumber.

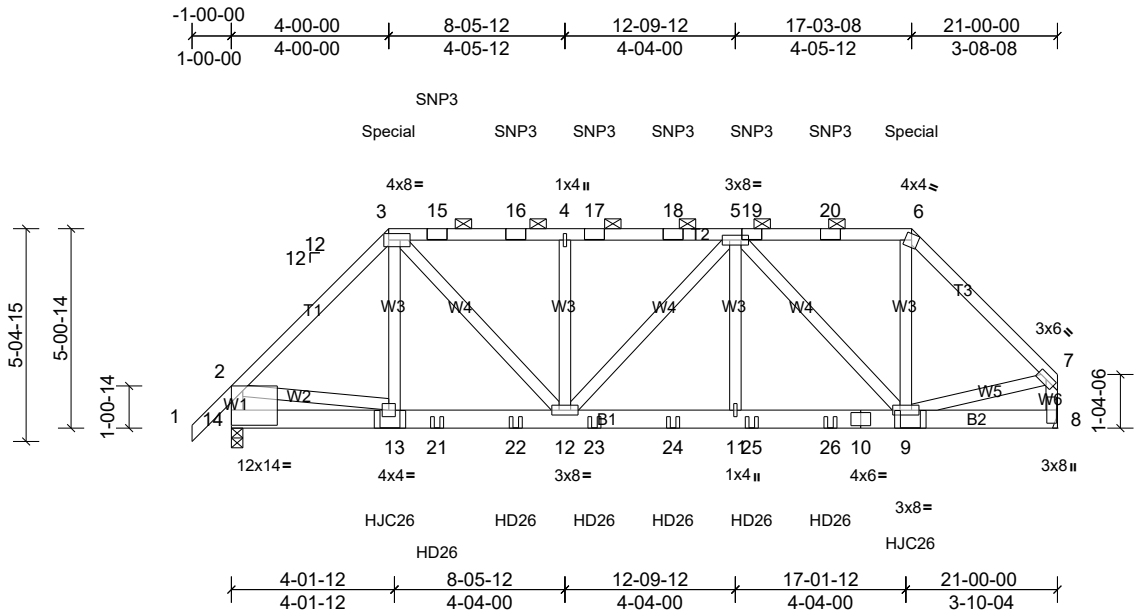
LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-5=-60, 5-8=-60, 11-15=-20
Concentrated Loads (lb)
Vert: 17=-891 (B), 19=-1245 (B)

Job	Truss	Truss Type	Qty	Ply	
21040572	E1	Hip Girder	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:39
ID:4phVD062o7SomBRTqKI0aazQX0p-l4TUP9XF6s7Np9DoC5QdkwnKh_NBu043jTW0yv8PW

Page: 1



Scale = 1:58.8

Loading	(psf)	Spacing	2-00-00	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	0.05	11-12	>999	240	197/144
BOT CHORD	10.0	Lumber DOL	1.15	BC	0.29	Vert(TL)	-0.08	11-12	>999	180	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.51	Horiz(TL)	0.02	8	n/a	n/a	
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH							
Weight: 117 lb FT = 20%											

LUMBER		
TOP CHORD	2x4	SPF No.2
BOT CHORD	2x6	SPF No.2
WEBS	2x4	SPF No.2
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 5-0-6 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-4 max.): 3-6.	
BOT CHORD	Rigid ceiling directly applied or 8-11-13 oc bracing.	
REACTIONS (size) 8= Mechanical, (min. 1-08), 14=3-08, (min. 2-00)		
	Max Horiz 14=121 (LC 7)	
	Max Uplift 8=501 (LC 9), 14=532 (LC 8)	
	Max Grav 8=1201 (LC 16), 14=1284 (LC 15)	
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	2-3=-1353/637, 3-15=-1361/685, 15-16=-1361/685, 4-16=-1361/685, 4-17=-1361/685, 17-18=-1361/685, 5-18=-1361/685, 5-19=-861/449, 19-20=-861/449, 6-20=-861/449, 6-7=-1252/582, 2-14=-1240/548, 7-8=-1160/513	
BOT CHORD	13-21=-492/942, 21-22=-492/942, 12-22=-492/942, 12-23=-683/1380, 23-24=-683/1380, 11-24=-683/1380, 11-25=-683/1380, 25-26=-683/1380, 10-26=-683/1380, 9-10=-683/1380	
WEBS	3-12=-356/705, 4-12=-374/274, 5-9=-756/389, 6-9=-157/493, 2-13=-463/893, 7-9=-432/861	

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; 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) Bearings are assumed to be: Joint 14 SPF No.2 crushing capacity of 425 psi.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 532 lb uplift at joint 14 and 501 lb uplift at joint 8.
- 9) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Use USP HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 13-2-12 oc max. starting at 4-0-6 from the left end to 17-3-2 to connect truss(es) to front face of bottom chord.
- 12) Use USP SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 5-2-12 from the left end to 15-2-12 to connect truss(es) to front face of top chord.
- 13) Use USP HD26 (With 4-16d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 5-2-12 from the left end to 15-2-12 to connect truss(es) to front face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) A minimum of (6) 8d x 1-1/2" nails are required into each member for SNP3 installation. All nailing is required in face of supported chords. For sloped applications, flanges may protrude above or below truss chords. Bending of extended flanges is permitted.
- 16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 217 lb down and 192 lb up at 4-0-0, and 217 lb down and 192 lb up at 17-3-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 17) 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

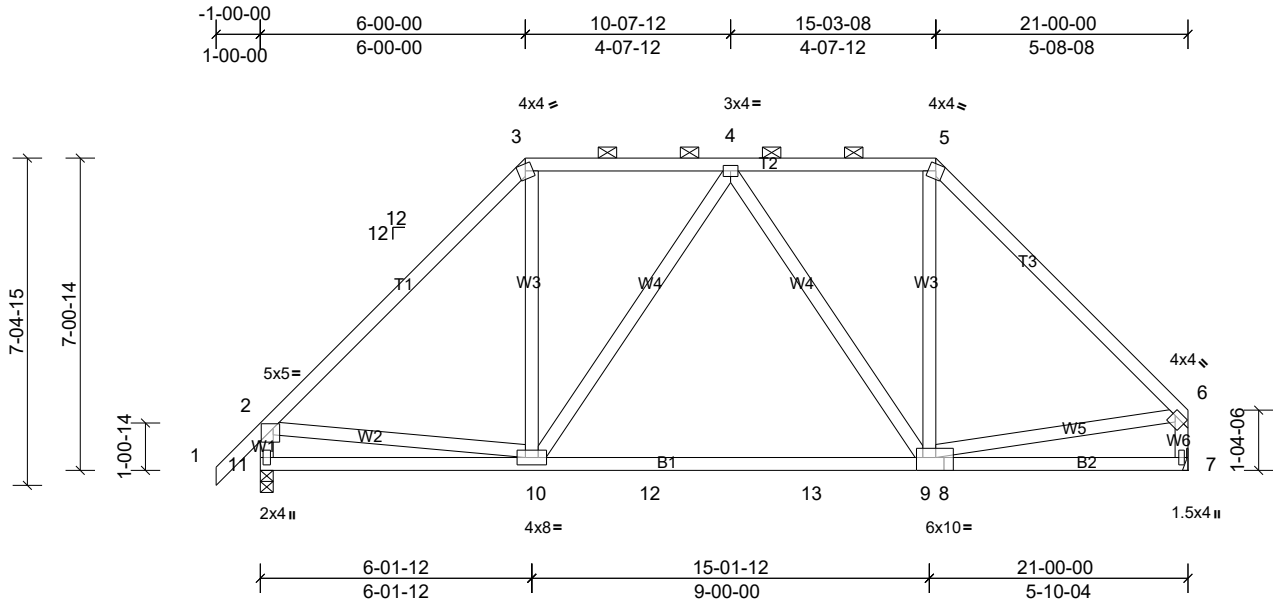
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-3=-60, 3-6=-60, 6-7=-60, 8-14=-20
Concentrated Loads (lb)
Vert: 3=-94 (F), 6=-94 (F), 13=-52 (F), 9=-52 (F), 15=-38 (F), 16=-38 (F), 17=-38 (F), 18=-38 (F), 19=-38 (F), 20=-38 (F), 21=-23 (F), 22=-23 (F), 23=-23 (F), 24=-23 (F), 25=-23 (F), 26=-23 (F)

Job	Truss	Truss Type	Qty	Ply	
21040572	E2	Hip	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:39
ID:bLchRsum1bBMcQ30nYQormzQX15-l4TUP9XF6s7Np9DoC5Qdkw_lhv7Bxh43jtTW0yv8PW

Page: 1



Scale = 1:52.4

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.21	9-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(TL)	-0.40	9-10	>628	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.27	Horiz(TL)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH							Weight: 103 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-5-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 7= Mechanical, (min. 1-08), 11=3-08, (min. 1-08)
Max Horiz 11=164 (LC 7)
Max Uplift 11=-9 (LC 10)
Max Grav 7=826 (LC 1), 11=899 (LC 1)

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

TOP CHORD 2-3=-900/119, 3-4=-545/145, 4-5=-533/145, 5-6=-866/115, 2-11=-852/138, 6-7=-783/96
BOT CHORD 10-11=-233/312, 10-12=-72/634, 12-13=-72/634, 9-13=-72/634
WEBS 3-10=0/326, 5-9=0/312, 2-10=-64/479, 6-9=-35/483

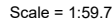
NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 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, with BCDL = 10.0psf.
- 6) Bearings are assumed to be: Joint 11 SPF No.2 crushing capacity of 425 psi.
- 7) Refer to girder(s) for truss to truss connections.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 11.
- 9) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:40
ID:uhXLvF_9OI3MyV5MhW2RdFzQX1_-I4TUP9XFX6s7Np9DoC5Qdkweyhy1B_543jtTW0yv8PW



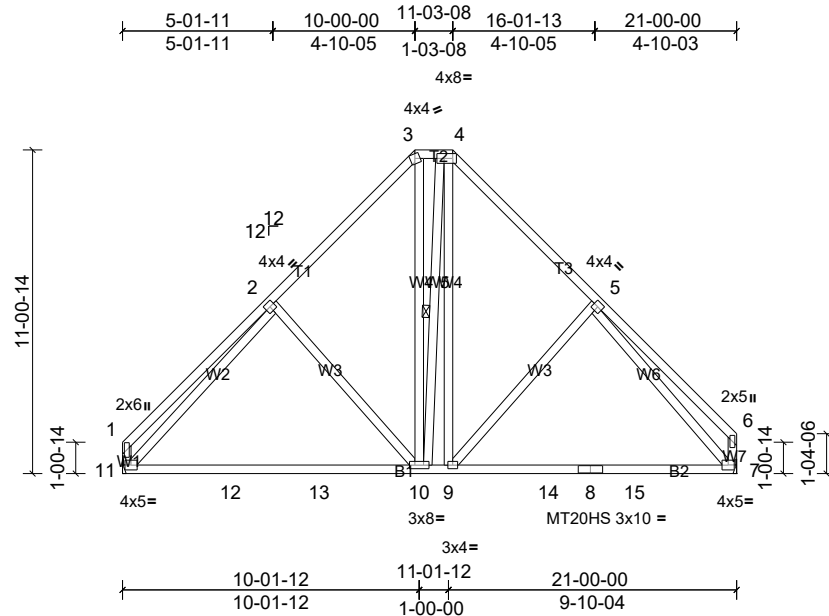
LOAD CASE(S) Standard

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 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) Refer to girder(s) for truss to truss connections.
- 8) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	
21040572	E4	Hip	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:40
ID:Mu5j7b_n93BDaegYFDZgATzQX0z-l4TUP9XFx6s7Np9DoC5QdkwnthtDBsY43jtTW0yv8PW

Page: 1



Scale = 1:79.1

[illegible]

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 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 4-10

REACTIONS

Mechanical, (min. 1-08)

Max Horiz 11=229 (LC 7)

Max Uplift 7=-7 (LC 10), 11=-4 (LC 11)

Max Grav 7=828 (LC 1), 11=828 (LC 1)

FORCES

TOP CHORD 1-2=-440/103, 2-3=-711/187, 3-4=-469/185,
4-5=-706/187, 5-6=-336/102, 1-11=-381/93,
6-7=-302/89

BOT CHORD 11-12=-83/650, 12-13=-83/650,
10-13=-83/650, 9-10=0/481, 9-14=0/528,
8-14=0/528, 8-15=0/528, 7-15=0/528

WEBS 2-10=-252/210, 3-10=-83/330, 4-9=-80/282,
2-11=-571/52, 5-7=-643/44

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 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.

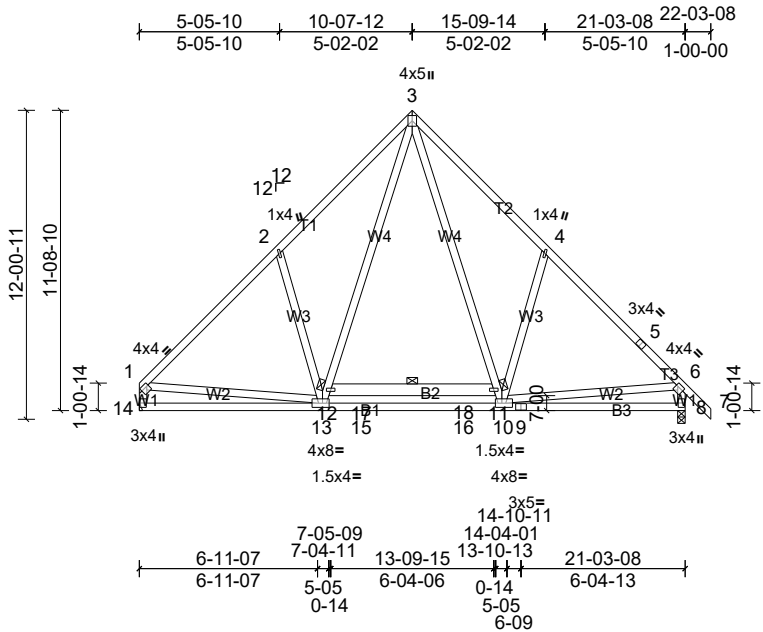
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 11 and 7 lb uplift at joint 7.
- 9) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

Job	Truss	Truss Type	Qty	Ply	
21040572	E5	Common	4	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:40
ID:q4f5Kx?PwMJ4BoFlpx4vigzQX0y-I4TUP9XFX6s7Np9DoC5QdkwnShy3Byl43jtTW0yv8PW

Page: 1



Scale = 1:90.3

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.13	10-13	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(TL)	-0.21	10-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horiz(TL)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH							Weight: 130 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except* 12-11:2x6 SPF No.2
WEBS 2x4 SPF No.2

7) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-6-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
6-0-0 oc bracing: 11-12

REACTIONS (size) 8=3-08, (min. 1-09), 14=
Mechanical, (min. 1-08)
Max Horiz 14=-253 (LC 8)
Max Grav 8=989 (LC 21), 14=937 (LC 21)

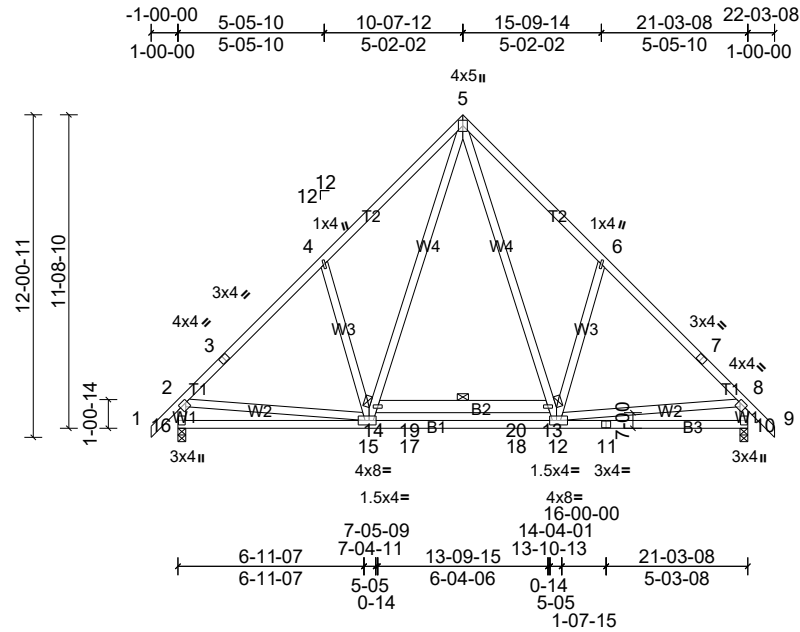
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1076/64, 2-3=-1002/222, 3-4=-995/219, 4-5=-982/66, 5-6=-1077/35, 1-14=-883/58, 6-8=-936/97
BOT CHORD 13-14=-209/340, 13-15=0/587, 15-16=0/587, 10-16=0/587
WEBS 1-13=0/623, 6-10=0/616, 2-13=-331/252, 12-13=-177/488, 3-12=-135/618, 3-11=-132/608, 10-11=-173/477, 4-10=-320/242

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Bearings are assumed to be: , Joint 8 SPF No.2 crushing capacity of 425 psi.
6) Refer to girder(s) for truss to truss connections.

Job	Truss	Truss Type	Qty	Ply	
21040572	E6	Common	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:40
ID:3YA3fCvOovJDEaeCLFx1N_zQX14-l4TUP9XFx6s7Np9DoC5QdkwnjhY4ByR43jtTW0yv8PW

Page: 1



Scale = 1:86.5

[illegible]

LUMBER

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except* 14-13:2x6 SPF No.2
WEBS 2x4 SPF No.2

6) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-7-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 13-14

REACTIONS

Max Horiz 16=261 (LC 9)
Max Grav 10=988 (LC 18), 16=988 (LC 17)

FORCES

(lb) or less except when shown.

TOP CHORD	2-3=-1075/34, 3-4=-979/66, 4-5=-994/219, 5-6=-993/219, 6-7=-980/66, 7-8=-1074/34, 2-16=-935/97, 8-10=-934/97
BOT CHORD	15-16=-228/361, 15-17=0/585, 17-18=0/585, 12-18=0/585
WEBS	2-15=0/606, 8-12=0/614, 4-15=-319/243, 14-15=-174/478, 5-14=-132/608, 5-13=-132/608, 12-13=-173/477, 6-12=-319/242

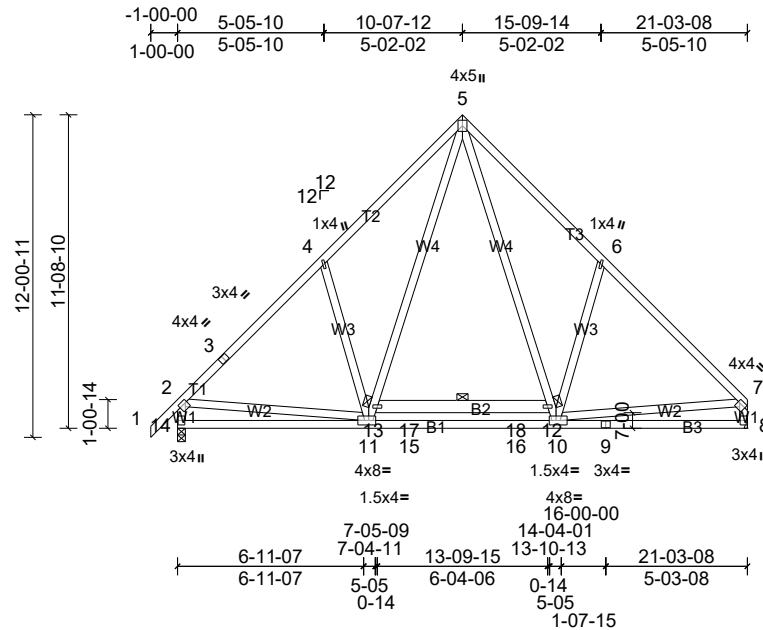
NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.

Job	Truss	Truss Type	Qty	Ply	
21040572	E7	Common	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:40
ID:YkkSsYw0ZDR3sjDPuzSGwCzQX13-l4TUP9XFx6s7Np9DoC5QdkwnShy3ByJ43jtTW0yv8PW

Page: 1



Scale = 1:86.5

[illegible]

LUMBER

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except* 13-12:2x6 SPF No.2
WEBS 2x4 SPF No.2

7) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-6-1 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 12-13

REACTIONS (size)

(size) 8= Mechanical, (min. 1-08),
14=3-08, (min. 1-09)
Max Horiz 14=253 (LC 7)
Max Grav 8=937 (LC 17), 14=989 (LC 17)

FORCES

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

TOP CHORD 2-3=-1077/35, 3-4=-982/66, 4-5=-996/219,
5-6=-1002/222, 6-7=-1076/64, 2-14=-936/97,
7-8=-883/58

BOT CHORD 11-14=-237/346, 11-15=0/575, 15-16=0/575,
10-16=0/575

WEBS 2-11=0/608, 7-10=0/629, 4-11=-320/243,
11-13=-174/479, 5-13=-133/608,
5-12=-135/618, 10-12=-176/487,
6-10=-331/251

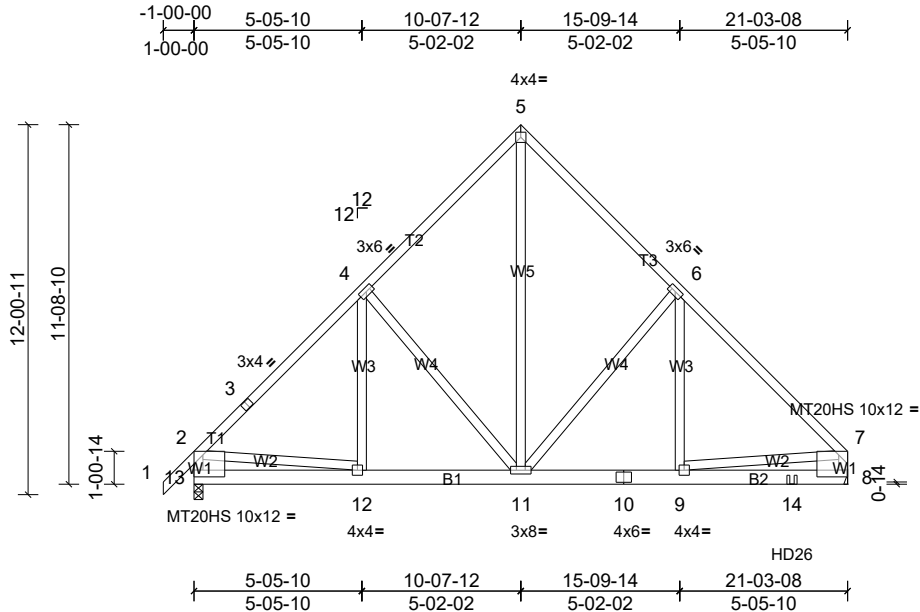
NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Bearings are assumed to be: Joint 14 SPF No.2 crushing capacity of 425 psi.
- 6) Refer to girder(s) for truss to truss connections.

Job	Truss	Truss Type	Qty	Ply	
21040572	E8	Common Girder	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:40
ID:YkkSsYw0ZDR3sjDPuzSGwCzQX13-l4TUP9XFX6s7Np9DoC5QdkwmdhwoBuK43jtTW0yv8PW

Page: 1



Scale = 1:75.4

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.03	8-9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(TL)	-0.08	8-9	>999	180	MT20HS	148/108
BCLL	0.0*	Rep Stress Incr	NO	WB	0.49	Horiz(TL)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH							Weight: 130 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SPF No.2
BOT CHORD	2x6 SPF No.2
WEBS	2x4 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 5-3-11 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS (size)	
	8= Mechanical, (min. 1-08), 13=3-08, (min. 1-08)
	Max Horiz 13=251 (LC 5)
	Max Uplift 8=-52 (LC 8), 13=-24 (LC 8)
	Max Grav 8=1265 (LC 1), 13=947 (LC 1)
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-964/46, 3-4=-854/78, 4-5=-729/167, 5-6=-731/167, 6-7=-1082/86, 2-13=-892/53, 7-8=-893/51
BOT CHORD	12-13=-249/340, 11-12=-63/667, 10-11=0/694, 9-10=0/694, 9-14=-74/313, 8-14=-74/313
WEBS	5-11=-125/583, 6-11=-447/195, 6-9=0/300, 4-11=-316/180, 2-12=0/447, 7-9=0/389

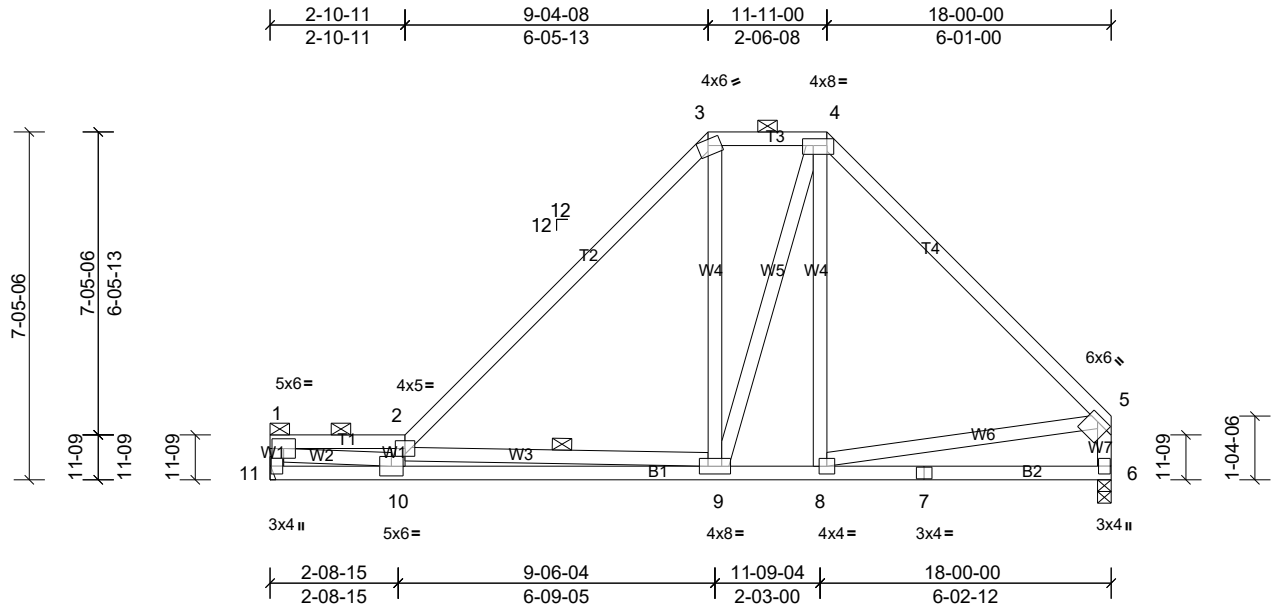
- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCCL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are MT20 plates unless otherwise indicated.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 6) Bearings are assumed to be: Joint 13 SPF No.2 crushing capacity of 425 psi.
 - 7) Refer to girder(s) for truss to truss connections.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 13 and 52 lb uplift at joint 8.
 - 9) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 10) Use USP HD26 (With 4-16d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent at 19-5-12 from the left end to connect truss(es) to back face of bottom chord.
 - 11) Fill all nail holes where hanger is in contact with lumber.
 - 12) 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=-60, 2-5=-60, 5-7=-60, 8-13=-20
Concentrated Loads (lb)
Vert: 14=-463 (B)

Job	Truss	Truss Type	Qty	Ply	
21040572	G1	Roof Special	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:40
ID:bLchRsum1bBMcQ30nYQomzQX15-l4TUP9XF6s7Np9DoC5QdkwhwhrdBth43jtTW0yv8PW

Page: 1



Scale = 1:49.5

Loading	(psf)	Spacing		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.14	9-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(TL)	-0.40	9-10	>531	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.53	Horiz(TL)	0.04	6	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH							Weight: 90 lb	FT = 20%

LUMBER		
TOP CHORD	2x4 SPF No.2	
BOT CHORD	2x4 SPF No.2	
WEBS	2x4 SPF No.2	
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 4-4-14 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-5 max.): 1-2, 3-4.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
WEBS	1 Row at midpt	2-9
REACTIONS (size)		
6=3-08, (min. 1-08), 11= Mechanical, (min. 1-08)		
Max Horiz 11=156 (LC 9)		
Max Uplift 11=-20 (LC 10)		
Max Grav 6=708 (LC 1), 11=708 (LC 1)		
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	1-11=-619/48, 1-2=-2252/226, 2-3=-757/104, 3-4=-469/150, 4-5=-710/105, 5-6=-647/90	
BOT CHORD	9-10=-239/2370, 8-9=0/408	
WEBS	1-10=-216/2158, 2-10=-553/147, 2-9=-1915/300, 4-9=-71/262, 5-8=-29/293	

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
 - 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) Bearings are assumed to be: , Joint 6 SPF No.2 crushing capacity of 425 psi.
 - 7) Refer to girder(s) for truss to truss connections.

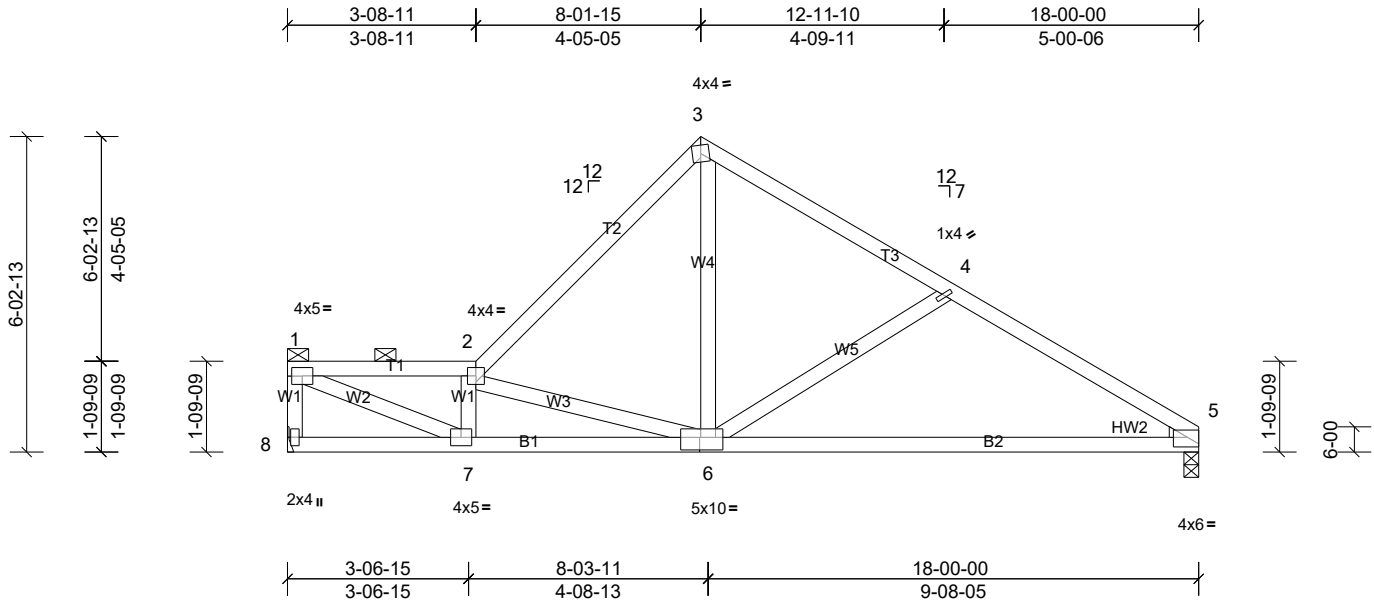
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 11.
- 9) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
21040572	G2	Roof Special	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:40
ID:792JEWt8GI3V?GUqDqvZlZzQX16-l4TUP9XF6s7Np9DoC5QdkwnHhukBwP43jtTW0yv8PW

Page: 1



Scale = 1:45.7

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.18	6-11	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(TL)	-0.47	6-11	>457	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.36	Horiz(TL)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH							Weight: 70 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
WEDGE Right: 2x3 SPF Stud

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-6-9 oc purlins, except end verticals, and 2-0-0 oc purlins (5-0-0 max.): 1-2.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 5=3-08, (min. 1-08), 8= Mechanical, (min. 1-08)
Max Horiz 8=-134 (LC 8)
Max Uplift 5=-30 (LC 11), 8=-20 (LC 10)
Max Grav 5=714 (LC 1), 8=714 (LC 1)

FORCES

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

TOP CHORD 1-8=-660/80, 1-2=-1307/141, 2-3=-877/99, 3-4=-747/108, 4-5=-1024/135

BOT CHORD 6-7=-110/1358, 5-6=-56/849
WEBS 1-7=-130/1373, 2-7=-528/88, 2-6=-841/166, 3-6=-19/619, 4-6=-343/142

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 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) Bearings are assumed to be: , Joint 5 SPF No.2 crushing capacity of 425 psi.
- 7) Refer to girder(s) for truss to truss connections.

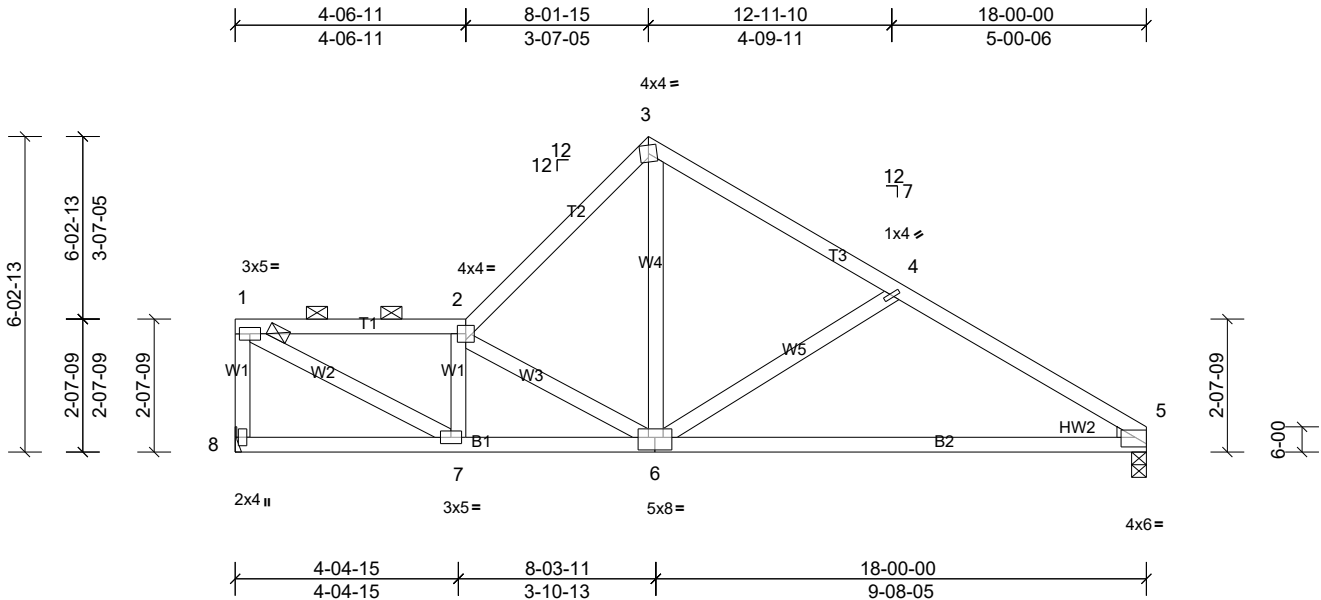
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 8 and 30 lb uplift at joint 5.
- 9) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

Job	Truss	Truss Type	Qty	Ply	
21040572	G3	Roof Special	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:40
ID:792JEWt8GI3V?GUqDqvZlZzQX16-l4TUP9XFx6s7Np9DoC5QdkwmChv4Bxm43jTW0yv8PW

Page: 1



Scale = 1:45.7

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.18	6-11	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(TL)	-0.47	6-11	>456	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.27	Horiz(TL)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH							Weight: 72 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
WEDGE Right: 2x3 SPF Stud

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-6-9 oc purlins, except end verticals, and 2-0-0 oc purlins (5-6-3 max.): 1-2.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 5=3-08, (min. 1-08), 8= Mechanical, (min. 1-08)
Max Horiz 8=-143 (LC 8)
Max Uplift 5=-30 (LC 11), 8=-24 (LC 10)
Max Grav 5=714 (LC 1), 8=714 (LC 1)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-661/89, 1-2=-995/119, 2-3=-857/110, 3-4=-744/108, 4-5=-1024/136
BOT CHORD 6-7=-60/1026, 5-6=-58/850
WEBS 1-7=-96/1093, 2-7=-493/77, 2-6=-554/129, 3-6=-38/644, 4-6=-346/144

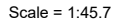
NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 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) Bearings are assumed to be: , Joint 5 SPF No.2 crushing capacity of 425 psi.
- 7) Refer to girder(s) for truss to truss connections.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 8 and 30 lb uplift at joint 5.
- 9) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

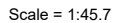
Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:40
ID:792JEWt8GI3V?GUqDqvZIZzQX16-l4TUP9XFX6s7Np9DoC5QdkwmJhv0ByM43jtTW0yv8PW



LUMBER		8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 8 and 29 lb uplift at joint 5.
TOP CHORD	2x4 SPF No.2	
BOT CHORD	2x4 SPF No.2	
WEBS	2x4 SPF No.2	9) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
WEDGE	Right: 2x3 SPF Stud	10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
BRACING		LOAD CASE(S) Standard
TOP CHORD	Structural wood sheathing directly applied or 5-6-9 oc purlins, except end verticals, and 2-0-0 oc purlins (5-8-9 max.): 1-2.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
REACTIONS	(size) 5=3-08, (min. 1-08), 8= Mechanical, (min. 1-08)	
	Max Horiz 8=-152 (LC 8)	
	Max Uplift 5=-29 (LC 11), 8=-29 (LC 10)	
	Max Grav 5=714 (LC 1), 8=714 (LC 1)	
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-8=-657/95, 1-2=-831/114, 2-3=-835/122, 3-4=-746/108, 4-5=-1025/137	
BOT CHORD	6-7=-28/853, 5-6=-59/851	
WEBS	1-7=-79/940, 2-7=-461/70, 2-6=-444/117, 3-6=-59/672, 4-6=-346/144	

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 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) Bearings are assumed to be: , Joint 5 SPF No.2 crushing capacity of 425 psi.
- 7) Refer to girder(s) for truss to truss connections.

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:40
ID:fzUx0AtWV_xeN6vdf7OKmMzQX17-l4TUP9XFx6s7Np9DoC5Qdkwlohv9ByT43jtTW0yv8PW



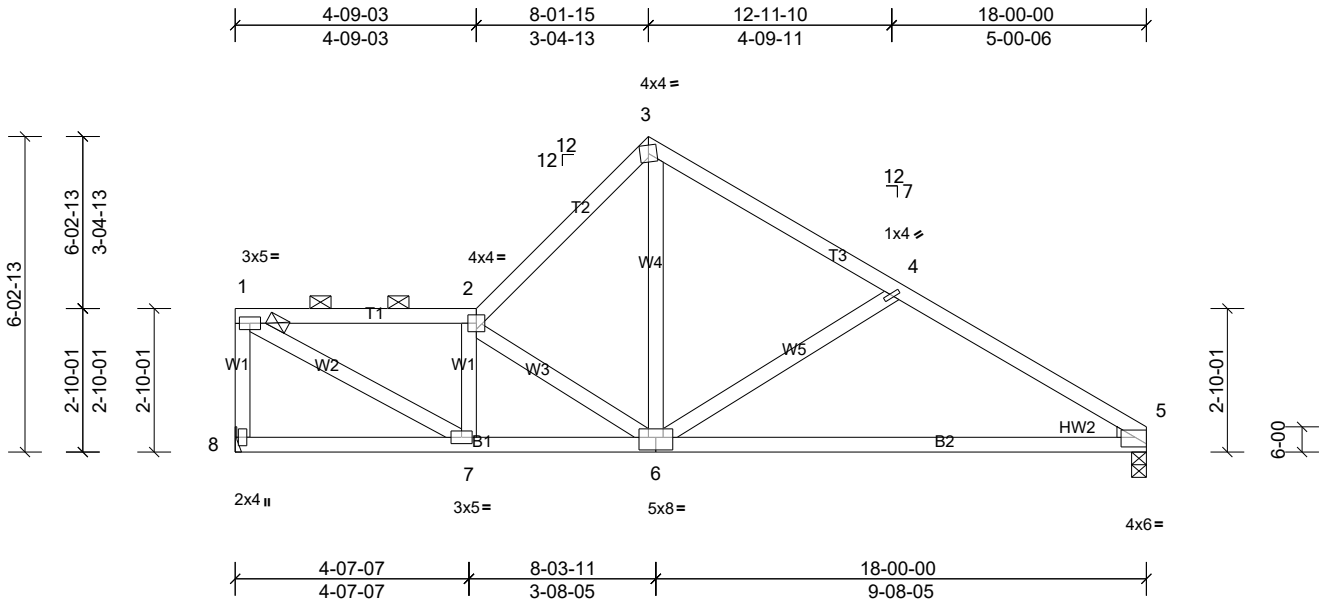
LUMBER		9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 8 and 29 lb uplift at joint 5.
TOP CHORD	2x4 SPF No.2	9) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
BOT CHORD	2x4 SPF No.2	10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
WEBS	2x4 SPF No.2	
WEDGE	Right: 2x3 SPF Stud	
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 5-6-9 oc purlins, except end verticals, and 2-0-0 oc purlins (5-8-10 max.): 1-2.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
REACTIONS	(size)	LOAD CASE(S) Standard
	5=3-08, (min. 1-08), 8=Mechanical, (min. 1-08)	
	Max Horiz 8=-154 (LC 8)	
	Max Uplift 5=-29 (LC 11), 8=-31 (LC 10)	
	Max Grav 5=714 (LC 1), 8=714 (LC 1)	
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-8=-656/97, 1-2=-801/114, 2-3=-831/125, 3-4=-746/108, 4-5=-1025/137	
BOT CHORD	6-7=-22/821, 5-6=-59/851	
WEBS	1-7=-76/912, 2-7=-454/68, 2-6=-431/116, 3-6=-64/680, 4-6=-346/145	

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 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) Bearings are assumed to be: , Joint 5 SPF No.2 crushing capacity of 425 psi.
- 7) Refer to girder(s) for truss to truss connections.

Job	Truss	Truss Type	Qty	Ply	
21040572	G6	Roof Special	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:40
ID:fzUx0AtWV_xeN6vd7OKmMzQX17-l4TUP9XFx6s7Np9DoC5QdkwmEhv7Bxy43jtTW0yv8PW

Page: 1



Scale = 1:45.7

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.18	6-11	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(TL)	-0.47	6-11	>459	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.26	Horiz(TL)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH							Weight: 73 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
WEDGE Right: 2x3 SPF Stud

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-6-9 oc purlins, except end verticals, and 2-0-0 oc purlins (5-7-1 max.): 1-2.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 5=3-08, (min. 1-08), 8= Mechanical, (min. 1-08)
Max Horiz 8=-145 (LC 8)
Max Uplift 5=-29 (LC 11), 8=-25 (LC 10)
Max Grav 5=714 (LC 1), 8=714 (LC 1)

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

TOP CHORD 1-8=-660/90, 1-2=-945/117, 2-3=-851/113, 3-4=-745/108, 4-5=-1025/137
BOT CHORD 6-7=-51/973, 5-6=-58/850
WEBS 1-7=-91/1047, 2-7=-484/75, 2-6=-516/124, 3-6=-43/650, 4-6=-346/144

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 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) Bearings are assumed to be: , Joint 5 SPF No.2 crushing capacity of 425 psi.
- 7) Refer to girder(s) for truss to truss connections.

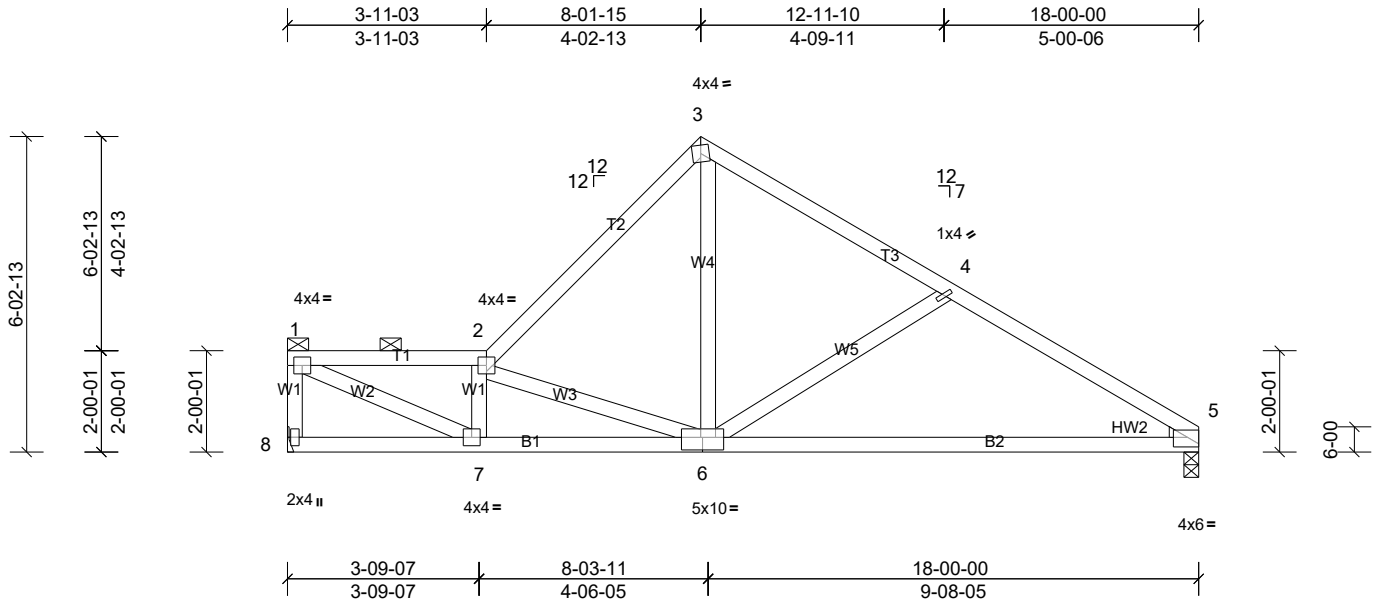
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 8 and 29 lb uplift at joint 5.
- 9) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

Job	Truss	Truss Type	Qty	Ply	
21040572	G7	Roof Special	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:41
ID:fzUx0AtWV_xeN6vdf7OKmMzQX17-l4TUP9XFx6s7Np9DoC5Qdkwm5hvuBx243jtTW0yv8PW

Page: 1



Scale = 1:45.7

Loading	(psf)	Spacing		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.19	6-11	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(TL)	-0.49	6-11	>439	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.31	Horiz(TL)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH							Weight: 71 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
WEDGE Right: 2x3 SPF Stud

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-6-7 oc purlins, except end verticals, and 2-0-0 oc purlins (5-2-0 max.): 1-2.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 5=3-08, (min. 1-08), 8= Mechanical, (min. 1-08)
Max Horiz 8=-136 (LC 8)
Max Uplift 5=-30 (LC 11), 8=-21 (LC 10)
Max Grav 5=714 (LC 1), 8=714 (LC 1)

FORCES

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

TOP CHORD 1-8=-660/83, 1-2=-1203/134, 2-3=-881/101, 3-4=-741/108, 4-5=-1023/136
BOT CHORD 6-7=-95/1248, 5-6=-57/849
WEBS 1-7=-120/1281, 2-7=-522/83, 2-6=-736/155, 3-6=-23/628, 4-6=-346/143

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 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) Bearings are assumed to be: , Joint 5 SPF No.2 crushing capacity of 425 psi.
- 7) Refer to girder(s) for truss to truss connections.

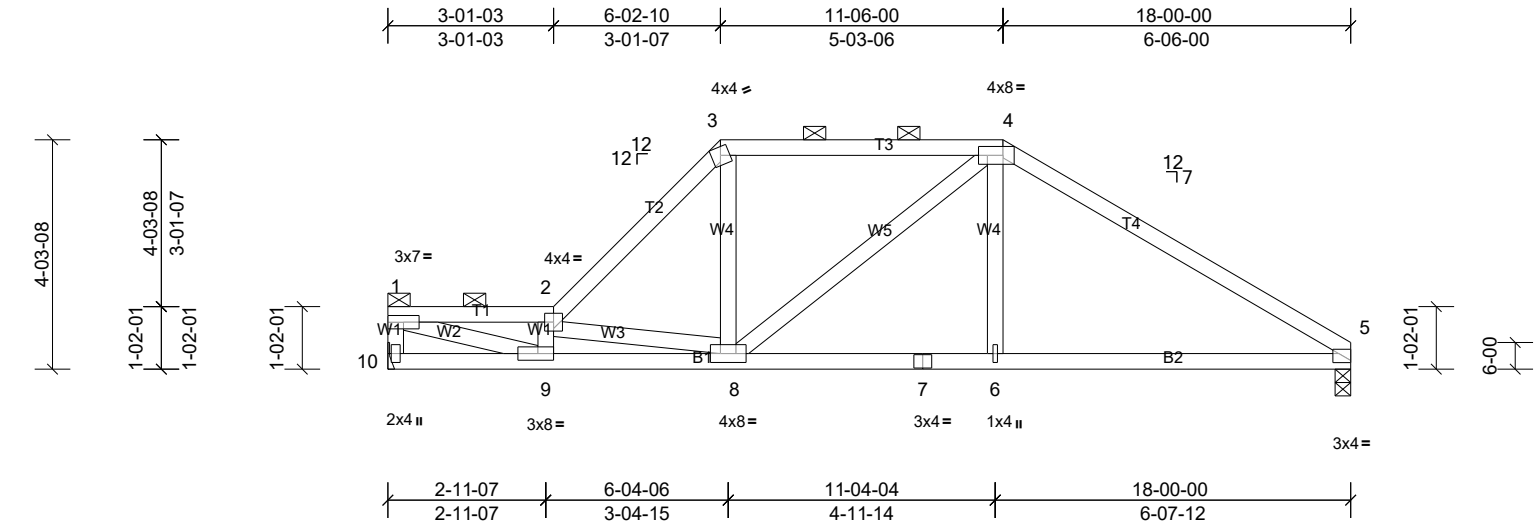
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 8 and 30 lb uplift at joint 5.
- 9) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

Job	Truss	Truss Type	Qty	Ply	
21040572	G8	Roof Special	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:41
ID:yJPauZyvs8pejByza50zYqzQX10-l4TUP9XFX6s7Np9DoC5QdkwkphviBvB43jtTW0yv8PW

Page: 1



Scale = 1:43.3

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.06	8-9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(TL)	-0.16	6-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horiz(TL)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH							Weight: 67 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-9-10 oc purlins, except end verticals, and 2-0-0 oc purlins (4-3-0 max.): 1-2, 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 5=3-08, (min. 1-08), 10= Mechanical, (min. 1-08)
Max Horiz 10=-89 (LC 8)
Max Uplift 5=-12 (LC 11), 10=-10 (LC 10)
Max Grav 5=714 (LC 1), 10=714 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-642/76, 1-2=-1803/175, 2-3=-1046/121, 3-4=-746/124, 4-5=-1008/112
BOT CHORD 8-9=-170/1892, 7-8=-17/791, 6-7=-17/791, 5-6=-19/786
WEBS 1-9=-160/1767, 2-9=-547/94, 2-8=-1215/165, 3-8=0/446, 4-6=0/253

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 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) Bearings are assumed to be: , Joint 5 SPF No.2 crushing capacity of 425 psi.
- 7) Refer to girder(s) for truss to truss connections.

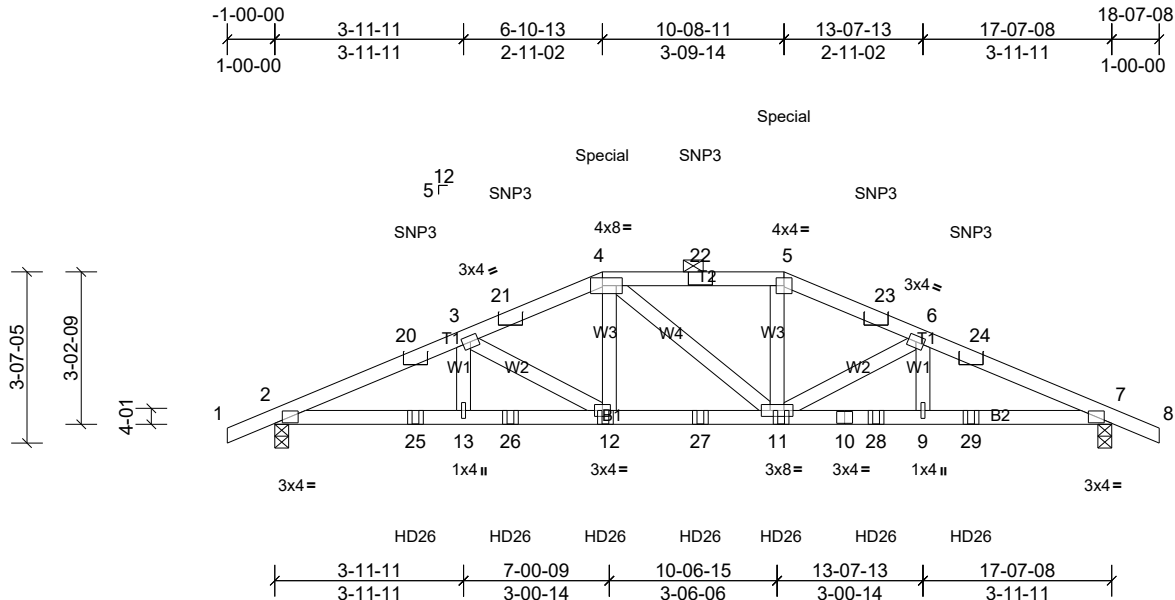
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 10 and 12 lb uplift at joint 5.
- 9) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

Job	Truss	Truss Type	Qty	Ply	
21040572	H1	Hip Girder	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:41
ID:BmwZpqstlgpnlyKR6Qt5D8zQX18-Huv6CpWcmokGlfa1EUZB4WNNdKHc_SY1wq38v_ayv8PX

Page: 1



Scale = 1:48.7

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	0.05	11-12	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(TL)	-0.09	12-13	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.04	Horiz(TL)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH							Weight: 65 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-5-12 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 8-4-14 oc bracing.

REACTIONS

(size) 2=3-08, (min. 1-08), 7=3-08, (min. 1-08)
Max Horiz 2=45 (LC 33)
Max Uplift 2=-280 (LC 8), 7=-282 (LC 9)
Max Grav 2=659 (LC 1), 7=659 (LC 1)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-20=-1143/514, 3-20=-1091/510, 3-21=-972/408, 4-21=-940/411, 4-22=-874/393, 5-22=-874/393, 5-23=-940/413, 6-23=-972/410, 6-24=-1093/514, 7-24=-1145/518
BOT CHORD 2-25=-473/1062, 13-25=-473/1062, 13-26=-473/1062, 12-26=-473/1062, 12-27=-327/914, 11-27=-327/914, 10-11=-438/1031, 10-28=-438/1031, 9-28=-438/1031, 9-29=-438/1031, 7-29=-438/1031

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 280 lb uplift at joint 2 and 282 lb uplift at joint 7.
- This truss is designed in accordance with the 2012 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.
- Use USP SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent spaced at 7-8-6 oc max. starting at 2-11-9 from the left end to 14-7-15 to connect truss(es) to back face of top chord.
- Use USP HD26 (With 4-16d nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent spaced at 11-8-6 oc max. starting at 2-11-9 from the left end to 14-7-15 to connect truss(es) to back face of bottom chord.
- Use USP HD26 (With 4-16d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 4-11-9 from the left end to 12-7-15 to connect truss(es) to back face of bottom chord.
- Use USP SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent at 8-11-9 from the left end to connect truss(es) to back face of top chord, skewed 0.0 deg.to the left, sloping -45.0 deg. down.
- Fill all nail holes where hanger is in contact with lumber.
- A minimum of (6) 8d x 1-1/2" nails are required into each member for SNP3 installation. All nailing is required in face of supported chords. For sloped applications, flanges may protrude above or below truss chords. Bending of extended flanges is permitted.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 59 lb down and 45 lb up at 6-10-13, and 59 lb down and 45 lb up at 10-8-11 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 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

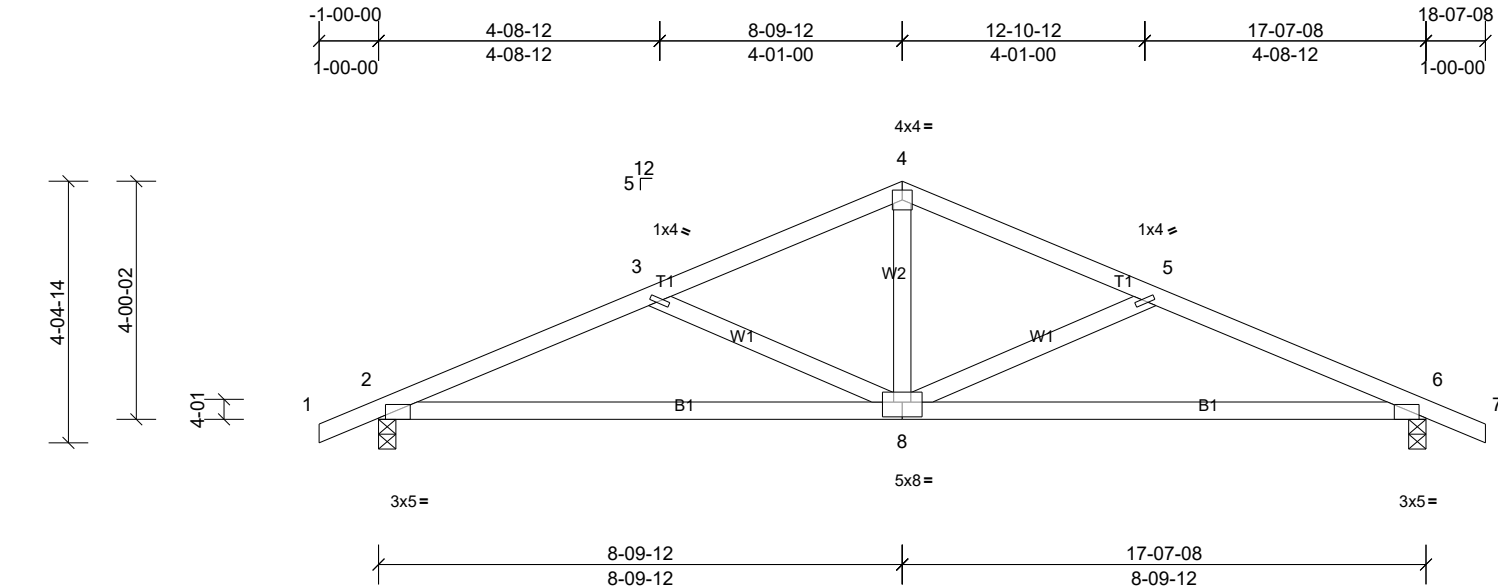
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)

Vert: 1-4=-60, 4-5=-60, 5-8=-60, 14-17=-20
Concentrated Loads (lb)
Vert: 12=1 (B), 11=1 (B), 20=-6 (B), 24=-6 (B), 25=111 (B), 26=0 (B), 27=1 (B), 28=0 (B), 29=111 (B)

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21040572	H2	Common	5	1	

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:41
ID:fzUx0AtWV_xeN6vd7OKmMzQX17-Huv6CpWcmokGIfa1EUZB4WNepHa1SWhwq38v_ayv8PX

Page: 1



Scale = 1:38.9

Loading	(psf)	Spacing		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	2-00-00	TC	0.17	Vert(LL)	-0.08	8-14	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(TL)	-0.21	8-14	>996	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.04	6	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH							Weight: 59 lb	FT = 20%

LUMBER **LOAD CASE(S)** Standard

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

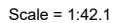
BRACING
TOP CHORD Structural wood sheathing directly applied or 5-2-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=3-08, (min. 1-08), 6=3-08, (min. 1-08)
Max Horiz 2=56 (LC 14)
Max Uplift 2=-48 (LC 10), 6=-48 (LC 11)
Max Grav 2=765 (LC 1), 6=765 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1249/237, 3-4=-936/156, 4-5=-936/156, 5-6=-1249/237
BOT CHORD 2-8=-148/1114, 6-8=-148/1114
WEBS 4-8=-19/446, 5-8=-343/147, 3-8=-343/147

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 2 and 48 lb uplift at joint 6.
 - 7) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:41 Page: 1
ID:7QakoK5oGWC4XtH5jviYU9zQX0r-Huv6CpWcmokGlfa1EUZB4WNXHHaOSTjwq38v_ayv8PX



LUMBER

BRACING

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

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

BOT CHORD 2-15=-340/6483, 15-16=-340/6483,
16-17=-340/6483, 10-17=-340/6483,
10-18=-178/4484, 18-19=-178/4484,
9-19=-178/4484, 8-9=-178/4484,
8-20=-275/6432, 20-21=-275/6432,
6-21=-275/6432

NOTES

- 1) Special connection required to distribute top chord loads equally between all plies.
- 2) Special connection required to distribute bottom chord loads equally between all plies.
- 3) Special connection required to distribute web loads equally between all plies.
- 4) 2-ply truss to be connected together with WS6 as follows:
 Top chords connected as follows: 2x4 - 1 row at 1-00 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 1-00 oc.
 Web connected as follows: 2x4 - 1 row at 1-00 oc.
- 5) 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.

- 6) Unbalanced roof live loads have been considered for this design.
- 7) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; 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
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 193 lb uplift at joint 2 and 177 lb uplift at joint 6.
- 12) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Use USP HD26 (With 4-16d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-6-12 from the left end to 15-6-12 to connect truss(es) to front face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.

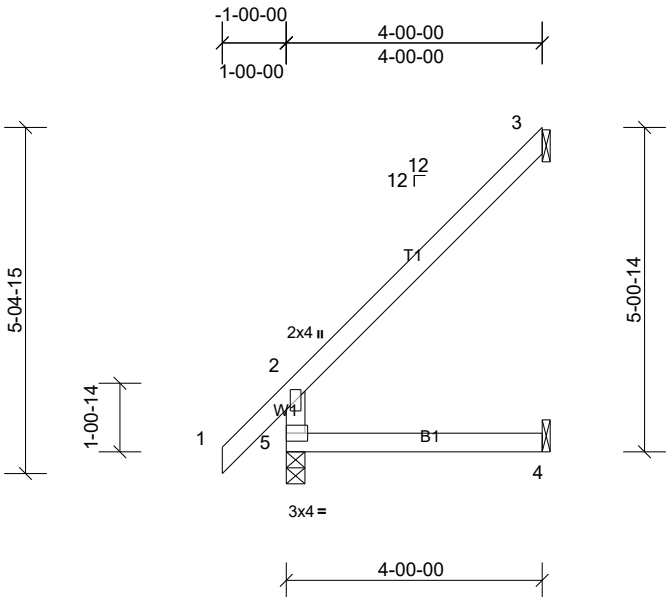
LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15,
Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-60, 4-7=-60, 2-6=-20
Concentrated Loads (lb)
Vert: 8=-694 (F), 15=-688 (F), 16=-694 (F), 17=-694
(F), 18=-694 (F), 19=-694 (F), 20=-694 (F), 21=-694
(F)

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21040572	J1	Jack-Open	8	1	

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:41
ID:YkkSsYw0ZDR3sjDPuzSGwCzQX13-l4TUP9XFx6s7Np9DoC5Qdkworh?jB?y43jtTW0yv8PW

Page: 1



Scale = 1:36.2

Loading	(psf)	Spacing	2-00-00	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	0.02	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.20	-0.03	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	0.04	3	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MR							
										Weight: 14 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 3= Mechanical, (min. 1-08), 4= Mechanical, (min. 1-08), 5=3-08, (min. 1-08)
Max Horiz 5=141 (LC 10)
Max Uplift 3=-95 (LC 10), 4=-6 (LC 10)
Max Grav 3=114 (LC 20), 4=72 (LC 3), 5=231 (LC 1)

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

NOTES

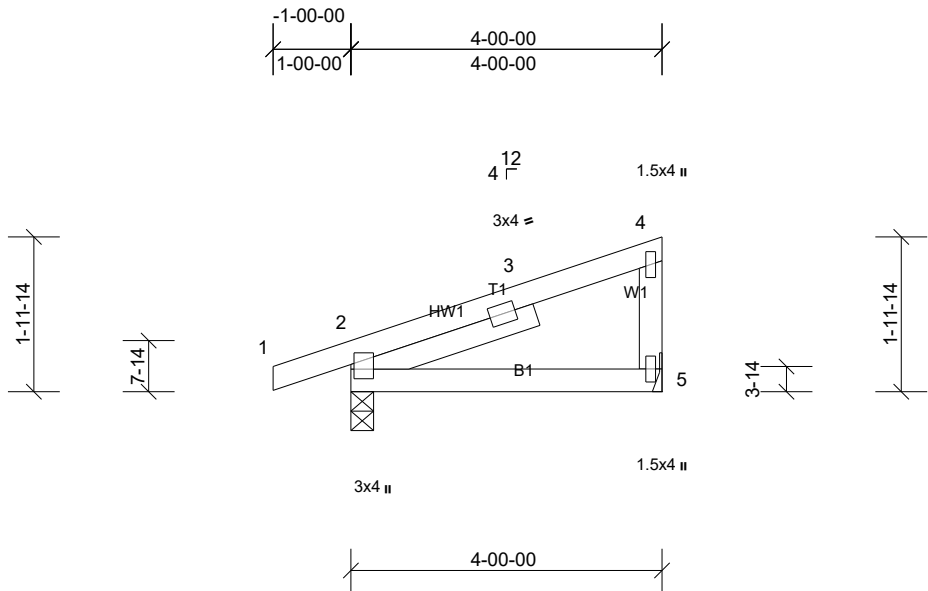
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Bearings are assumed to be: , Joint 5 SPF No.2 crushing capacity of 425 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 3 and 6 lb uplift at joint 4.
- 7) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
21040572	J2	Monopitch	5	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:41
ID:cuFYaUI512TXhefYmh1mDyzQX0Z-I4TUP9XFX6s7Np9DoC5QdkwpYh18B?y43jtTW0yv8PW

Page: 1



Scale = 1:29.7

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	0.01	5-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	-0.02	5-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MP							Weight: 16 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x4 SP No.2 -- 2-05-13

BRACING

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

REACTIONS (size) 2=3-08, (min. 1-08), 5=
Mechanical, (min. 1-08)
Max Horiz 2=58 (LC 9)
Max Uplift 2=-43 (LC 6), 5=-18 (LC 10)
Max Grav 2=222 (LC 1), 5=146 (LC 1)

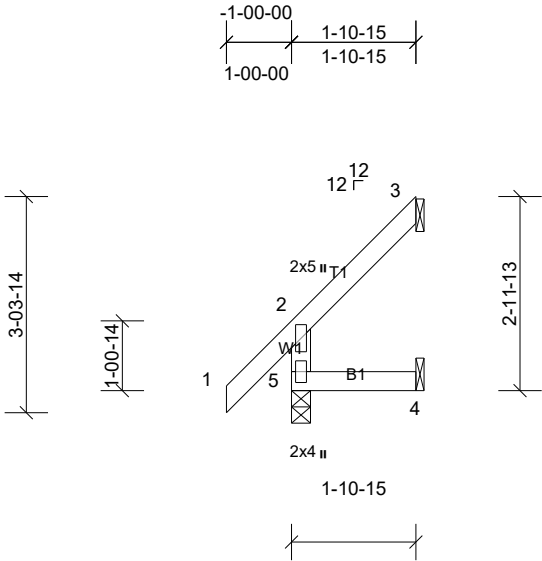
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250
(lb) or less except when shown.

NOTES

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V
(IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft;
Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior
zone 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=1.60
- 2) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 4) Bearings are assumed to be: Joint 2 SPF No.2 crushing
capacity of 425 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 18 lb uplift at joint
5 and 43 lb uplift at joint 2.
- 7) This truss is designed in accordance with the 2012
International Residential Code sections R502.11.1 and
R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21040572	J3	Jack-Open	4	1	



Scale = 1:35.6

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	0.00	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MR							Weight: 8 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, (min. 1-08), 4= Mechanical, (min. 1-08), 5=3-08, (min. 1-08)
Max Horiz 5=77 (LC 10)
Max Uplift 3=-48 (LC 10), 4=-11 (LC 10)
Max Grav 3=46 (LC 17), 4=32 (LC 3), 5=161 (LC 1)

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

NOTES

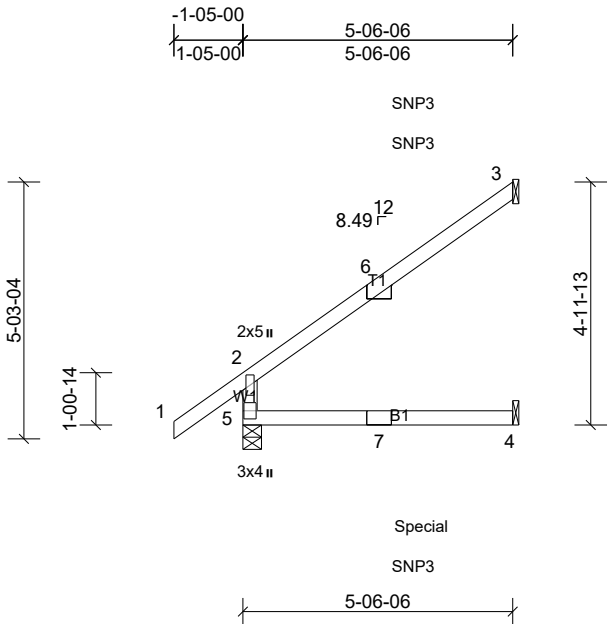
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Bearings are assumed to be: , Joint 5 SPF No.2 crushing capacity of 425 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 3 and 11 lb uplift at joint 4.
- This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
21040572	J4	Diagonal Hip Girder	2	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:41
ID:B2uSupsZEsd?9glY6Ea_H8z3Mj6-I4TUP9XF6s7Np9DoC5QdkwIWh_6B?y43jtTW0yv8PW

Page: 1



Scale = 1:47.4

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	0.07	4-5	>978	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(TL)	-0.11	4-5	>578	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horiz(TL)	-0.08	3	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MR							Weight: 17 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 3= Mechanical, (min. 1-08), 4= Mechanical, (min. 1-08), 5=4-09, (min. 1-08)
Max Horiz 5=140 (LC 8)
Max Uplift 3=-105 (LC 8), 4=-5 (LC 8), 5=-16 (LC 8)
Max Grav 3=159 (LC 15), 4=102 (LC 3), 5=318 (LC 1)

FORCES

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

TOP CHORD 2-5=-272/45

NOTES

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Bearings are assumed to be: , Joint 5 SPF No.2 crushing capacity of 425 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 5, 105 lb uplift at joint 3 and 5 lb uplift at joint 4.
- 7) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- 8) Use USP SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent at 2-9-8 from the left end to connect truss(es) to front face of top chord, skewed 45.0 deg.to the left, sloping -45.0 deg. down.
- 9) Use USP SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent at 2-9-8 from the left end to connect truss(es) to back face of top chord, skewed 45.0 deg.to the right, sloping -45.0 deg. down.
- 10) Use USP SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent at 2-9-8 from the left end to connect truss(es) to back face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) A minimum of (6) 8d x 1-1/2" nails are required into each member for SNP3 installation. All nailing is required in face of supported chords. For sloped applications, flanges may protrude above or below truss chords. Bending of extended flanges is permitted.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

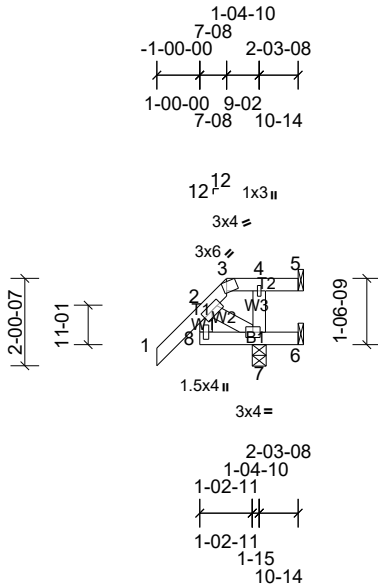
LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-3=-60, 4-5=-20
Concentrated Loads (lb)
Vert: 7=4 (F=2, B=2)

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21040572	J5	Jack-Open	2	1	

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:41
ID:IXHmi6BKUMoM7BAztfuVbCz0V7b-I4TUP9XF6s7Np9DoC5QdkwqohycB?h43jtTW0yv8PW

Page: 1



Scale = 1:53.9

Loading	(psf)	Spacing		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	2-00-00	TC	0.09	Vert(LL)	0.00	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(TL)	0.00	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	-0.09	5	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MP							Weight: 10 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-3-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 5= Mechanical, (min. 1-08), 6= Mechanical, (min. 1-08), 7=3-14, (min. 1-08)
Max Horiz 7=40 (LC 10)
Max Uplift 5=-40 (LC 10), 6=-252 (LC 1), 7=-31 (LC 10)
Max Grav 5=66 (LC 1), 6=60 (LC 10), 7=422 (LC 1)

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

NOTES

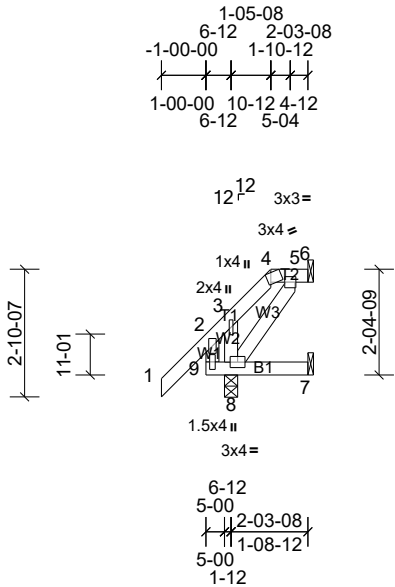
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-0-0 to 2-2-12 zone; cantilever left and right exposed ; 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
- 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) Bearings are assumed to be: , Joint 7 SPF No.2 crushing capacity of 425 psi.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 5, 252 lb uplift at joint 6 and 31 lb uplift at joint 7.

- 9) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

Job	Truss	Truss Type	Qty	Ply	
21040572	J6	Jack-Open	2	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:41
ID:2ZnMvP01UXzHwpgtUxhzEz0Uww-l4TUP9XFX6s7Np9DoC5Qdkwqzh2AB?l43jtTW0yv8PW

Page: 1



Scale = 1:52

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	0.00	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH							Weight: 12 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-3-8 oc purlins, except end verticals, and 2-0-0 oc purlins: 4-6.

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

REACTIONS (size) 6= Mechanical, (min. 1-08), 7= Mechanical, (min. 1-08), 8=3-09, (min. 1-08)
Max Horiz 8=67 (LC 10)
Max Uplift 6=-35 (LC 7)
Max Grav 6=29 (LC 22), 7=26 (LC 3), 8=214 (LC 1)

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

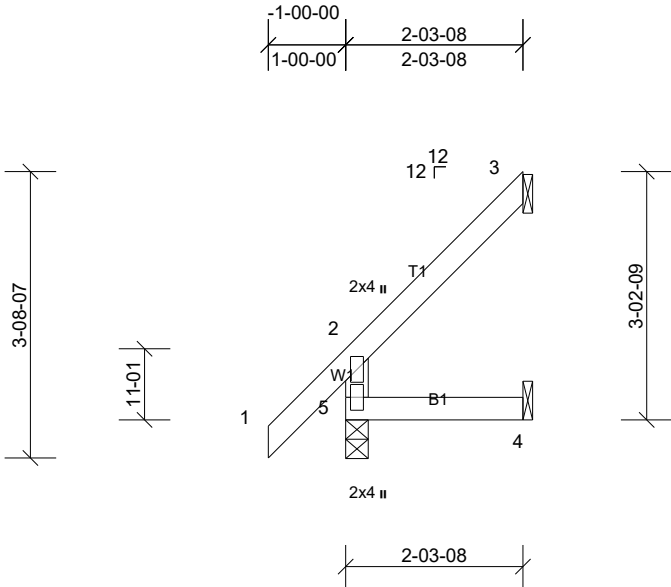
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 8 SPF No.2 crushing capacity of 425 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 6.

- This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21040572	J8	Jack-Open	3	1	



Scale = 1:29.9

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	0.00	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MR							Weight: 9 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, (min. 1-08), 4= Mechanical, (min. 1-08), 5=3-08, (min. 1-08)
Max Horiz 5=89 (LC 10)
Max Uplift 3=-53 (LC 10), 4=-6 (LC 10)
Max Grav 3=57 (LC 17), 4=38 (LC 3), 5=171 (LC 1)

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

NOTES

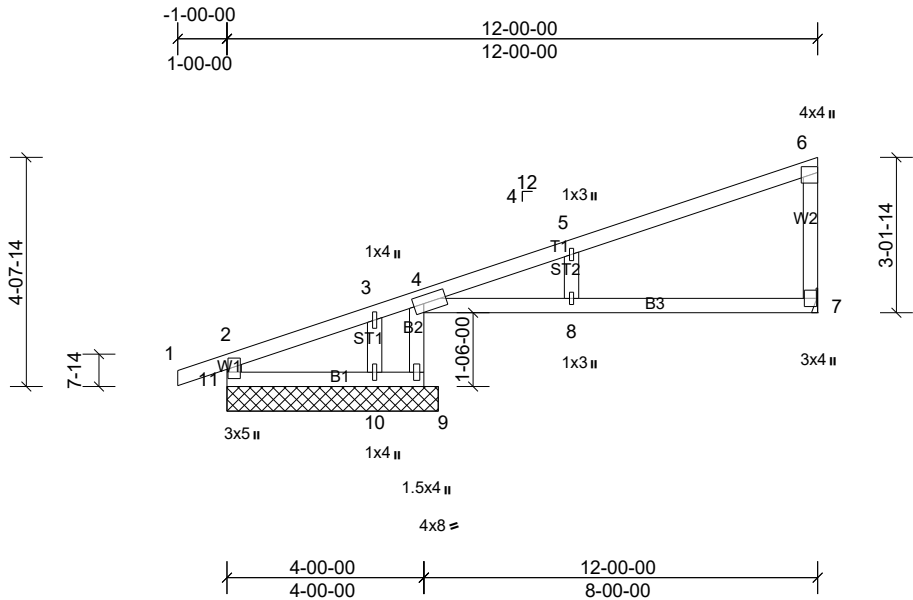
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Bearings are assumed to be: , Joint 5 SPF No.2 crushing capacity of 425 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 3 and 6 lb uplift at joint 4.
- 7) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
21040572	K1	Monopitch Supported Gable	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:42
ID:cuFYaUI512TXhefYmh1mDyzQX0Z-l4TUP9XFX6s7Np9DoC5QdkwgOhxhB_S43jtTW0yv8PW

Page: 1



Scale = 1:47

Loading	(psf)	Spacing		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.09	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(TL)	-0.24	7-8	>403	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	-0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MR							Weight: 36 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 4-9.

REACTIONS

All bearings 4-03-08. except 7= Mechanical
(lb) - Max Horiz 11=134 (LC 7)
Max Uplift All uplift 100 (lb) or less at joint(s)
7, 11 except 9=-112 (LC 6),
10=-335 (LC 1)
Max Grav All reactions 250 (lb) or less at joint
(s) 10, 11 except 7=269 (LC 1),
9=880 (LC 1)

FORCES

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

BOT CHORD 4-9=-886/192
WEBS 3-10=-46/394

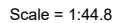
NOTES

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 2-0-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Bearings are assumed to be: Joint 10 SPF No.2 crushing capacity of 425 psi.

- 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) 11, 7 except (jt=lb) 9=111, 10=334.
- 9) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:42
ID:cufYaUl512TXhefYmh1mDyzQX0Z-l4TUP9XFx6s7Np9DoC5Qdkwith_VBza43jtTW0yv8PW



LUMBER		7) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
TOP CHORD	2x4 SPF No.2	
BOT CHORD	2x4 SPF No.2	
WEBS	2x4 SPF No.2	
OTHERS	2x4 SPF No.2	
SLIDER	Left 2x4 SP No.2 -- 2-05-13	LOAD CASE(S) Standard

REACTIONS (size) 2=3-08, (min. 1-08), 4=3-08, (min. 1-08), 13=Mechanical, (min. 1-08)

Max Horiz 2=136 (LC 6)

Max Uplift 4=-105 (LC 10), 13=-32 (LC 6)

Max Grav 2=164 (LC 1), 4=555 (LC 1), 13=266 (LC 1)

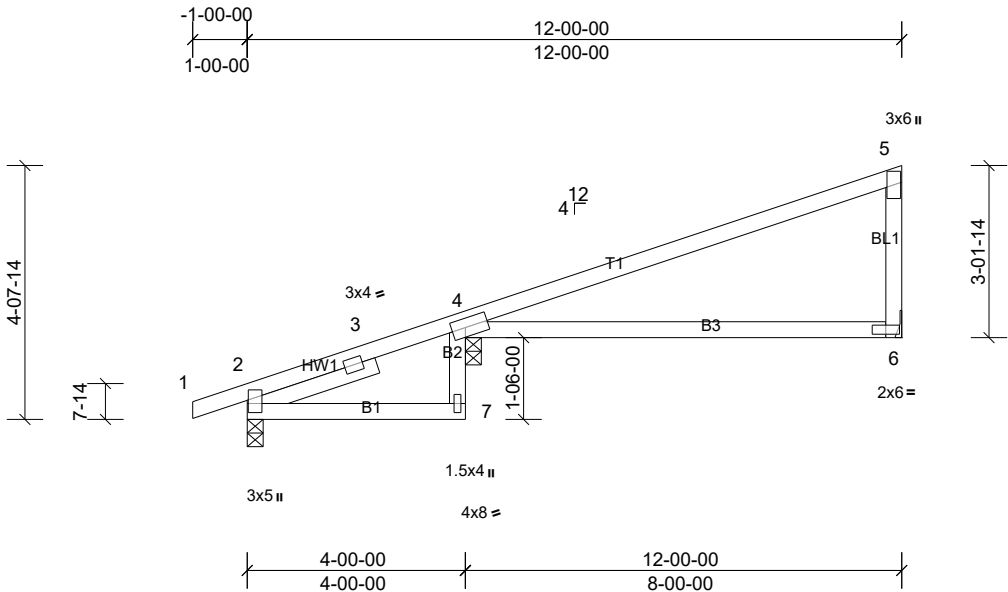
TOP CHORD 4-5=-369/0
BOT CHORD 4-7=0/315
WEBS 5-7=0/310, 5-13=-272/60

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCCL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- 4) Bearings are assumed to be: Joint 2 SPF No.2 crushing capacity of 425 psi, Joint 4 SPF No.2 crushing capacity of 425 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 105 lb uplift at joint 4 and 32 lb uplift at joint 13.

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21040572	K3	Monopitch	2	1	

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:42
ID:cuFYaUI512TXhefYmh1mDyzQX0Z-l4TUP9XFX6s7Np9DoC5QdkwiThyUB?y43jtTW0yv8PW

Page: 1



Scale = 1:42.4

Loading	(psf)	Spacing		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.10	4-6	>932	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(TL)	-0.28	4-6	>339	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MR							Weight: 38 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x4 SPF No.2
SLIDER Left 2x4 SP No.2 -- 2-05-13

BRACING

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

REACTIONS

(size) 2=3-08, (min. 1-08), 4=3-08, (min. 1-08), 6= Mechanical, (min. 1-08)
Max Horiz 2=127 (LC 7)
Max Uplift 2=-7 (LC 6), 4=-86 (LC 10), 6=-31 (LC 10)
Max Grav 2=134 (LC 1), 4=597 (LC 1), 6=278 (LC 1)

FORCES

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

NOTES

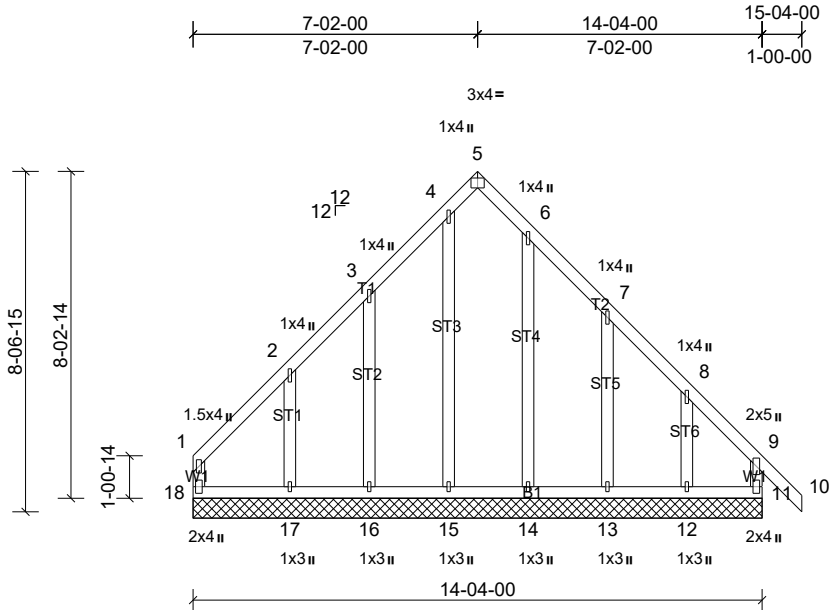
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Bearings are assumed to be: Joint 2 SPF No.2 crushing capacity of 425 psi, Joint 4 SPF No.2 crushing capacity of 425 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 2, 86 lb uplift at joint 4 and 31 lb uplift at joint 6.
- 7) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
21040572	L1	Common Supported Gable	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:42
ID:nkIHJQEKRCiNzjCOQQwMzhzQX0f-I4TUP9XFx6s7Np9DoC5Qdkwqlh1QB_343jtTW0yv8PW

Page: 1



Scale = 1:58.3

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	11	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MR							Weight: 75 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS All bearings 14-04-00.

(lb) - Max Horiz 18=-183 (LC 6)
Max Uplift All uplift 100 (lb) or less at joint(s)
11, 13, 16, 18 except 12=-153 (LC 11), 17=-154 (LC 10)
Max Grav All reactions 250 (lb) or less at joint (s) 11, 12, 13, 14, 15, 16, 17, 18

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 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

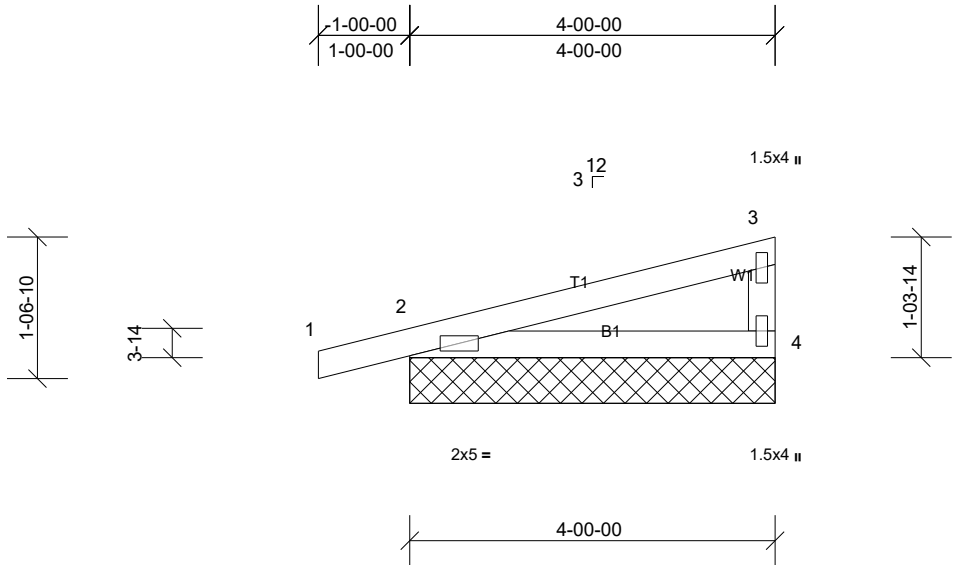
- 9) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 11, 16, 13 except (jt=lb) 17=153, 12=152.
- 11) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
21040572	M1	Monopitch Supported Gable	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:42
ID:y7_sB?auroEPK0Ln3JQw6bzQX0D-I4TUP9XFX6s7Np9DoC5Qdkwpzh0dB?y43jtTW0yv8PW

Page: 1



Scale = 1:25.3

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MP							Weight: 11 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 2=4-00-00, (min. 1-08), 4=4-00-00, (min. 1-08), 5=4-00-00, (min. 1-08)
Max Horiz 2=37 (LC 9), 5=37 (LC 9)
Max Uplift 2=-47 (LC 6), 4=-13 (LC 10), 5=-47 (LC 6)
Max Grav 2=222 (LC 1), 4=149 (LC 1), 5=222 (LC 1)

FORCES

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

NOTES

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 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) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 2, 13 lb uplift at joint 4 and 47 lb uplift at joint 2.

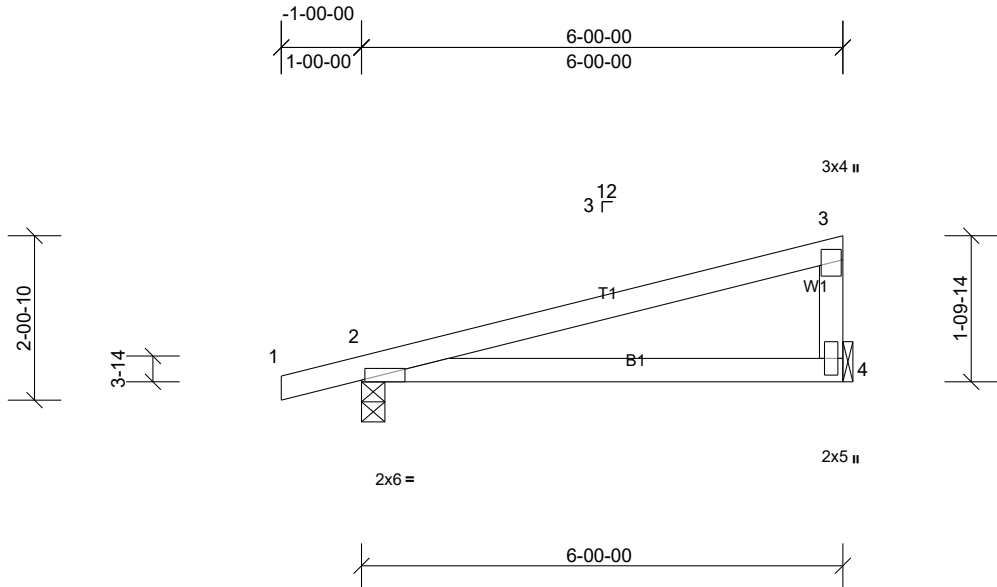
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 5.
- 10) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21040572	M2	Jack-Closed	3	1	

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:42
ID:nklIHJQEKRCiNzjCOQQwMzhzQX0f-I4TUP9XF6s7Np9DoC5QdkwnTh_1B?y43jtTW0yv8PW

Page: 1



Scale = 1:28.8

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.04	4-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(TL)	-0.11	4-7	>664	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH							Weight: 17 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 2=3-08, (min. 1-08), 4= Mechanical, (min. 1-08)

Max Horiz 2=53 (LC 9)
Max Uplift 2=-52 (LC 6), 4=-24 (LC 10)
Max Grav 2=299 (LC 1), 4=229 (LC 1)

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

NOTES

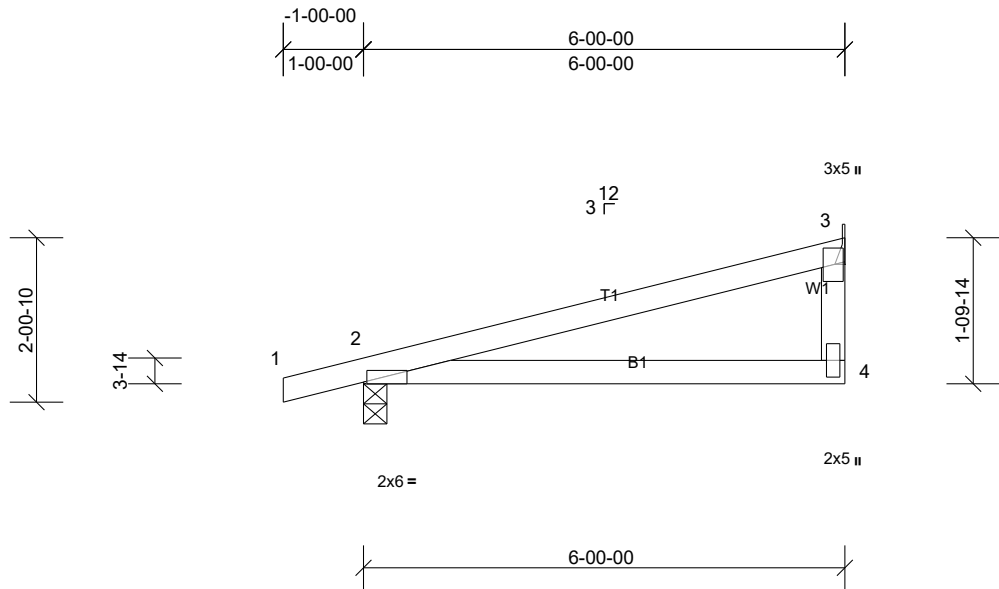
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Bearings are assumed to be: Joint 2 SPF No.2 crushing capacity of 425 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 4 and 52 lb uplift at joint 2.
- 7) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21040572	M4	Monopitch	8	1	

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:42
ID:FwsfXmFyCVrEbtbn_8RbWuzQX0e-l4TUP9XFX6s7Np9DoC5QdkwnTh_1B?y43jtTW0yv8PW

Page: 1



Scale = 1:28.8

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.04	4-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(TL)	-0.11	4-7	>664	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH							Weight: 17 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 2=3-08, (min. 1-08), 3= Mechanical, (min. 1-08)
Max Horiz 2=53 (LC 9)
Max Uplift 2=-52 (LC 6), 3=-24 (LC 10)
Max Grav 2=299 (LC 1), 3=229 (LC 1)

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

NOTES

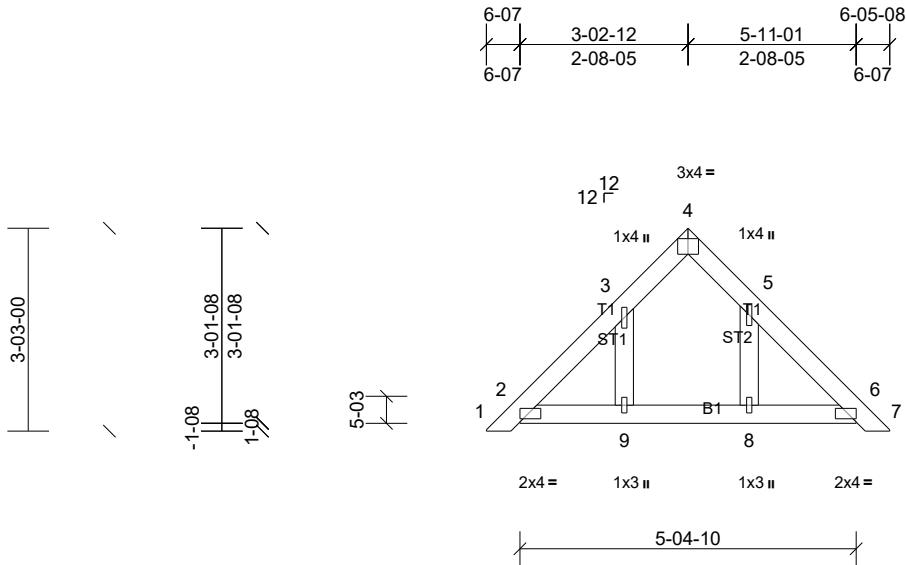
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Bearings are assumed to be: , Joint 2 SPF No.2 crushing capacity of 425 psi.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 3 and 52 lb uplift at joint 2.
- 7) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
21040572	PB1	Piggyback	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:42
ID:G_0lmzrM?sPVyzzrhPEUokiz37hF-I4TUP9XFX6s7Np9DoC5Qdkwruh2NB?m43jtTW0yv8PW

Page: 1



Scale = 1:37

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH							Weight: 20 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

All bearings 5-04-10.
(lb) - Max Horiz 2=61 (LC 8), 10=61 (LC 8)
Max Uplift All uplift 100 (lb) or less at joint(s) 8, 9
Max Grav All reactions 250 (lb) or less at joint (s) 2, 6, 8, 9, 10, 13

FORCES

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

NOTES

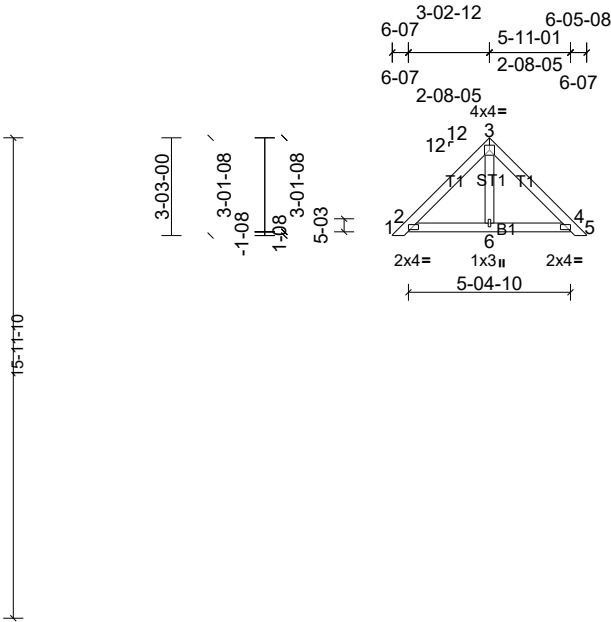
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 8.

- 10) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21040572	PB2	Piggyback	15	1	

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:42
ID:At?H_D15lJaj2dx8rJPLonz3QEeq-l4TUP9XFX6s7Np9DoC5QdkwrHh1qB?n43jtTW0yv8PW

Page: 1



Scale = 1:76.9

Loading	(psf)	Spacing	2-00-00	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH							Weight: 19 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

All bearings 5-04-10.
(lb) - Max Horiz 2=-61 (LC 8), 7=-61 (LC 8)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 4, 7, 10
Max Grav All reactions 250 (lb) or less at joint (s) 2, 4, 6, 7, 10

FORCES

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

NOTES

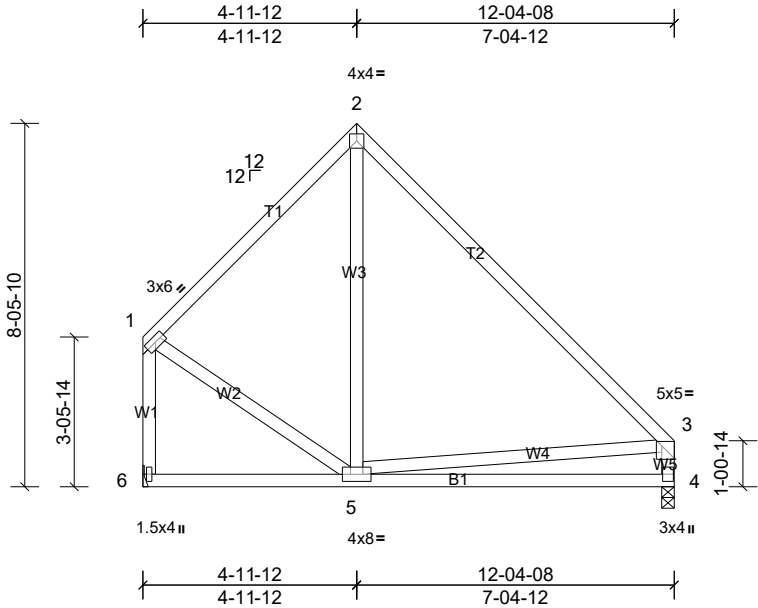
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06'-00" tall by 2-00'-00" wide will fit between the bottom chord and any other members.
- 8) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 2, 4.

- 10) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- LOAD CASE(S)** Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21040572	S1	Common	1	1	

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:42
ID:kQ9aznYJ1bD?LkSULgwcX2z3882-I4TUP9XFX6s7Np9DoC5Qdkwh2hzDBz_43jtTW0yv8PW

Page: 1



Scale = 1:53.9

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.07	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(TL)	-0.19	4-5	>783	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH							Weight: 62 lb	FT = 20%

LUMBER

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

8) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-8-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 4=3-08, (min. 1-08), 6= Mechanical, (min. 1-08)
Max Horiz 6=-198 (LC 6)
Max Uplift 6=-30 (LC 11)
Max Grav 4=483 (LC 1), 6=483 (LC 1)

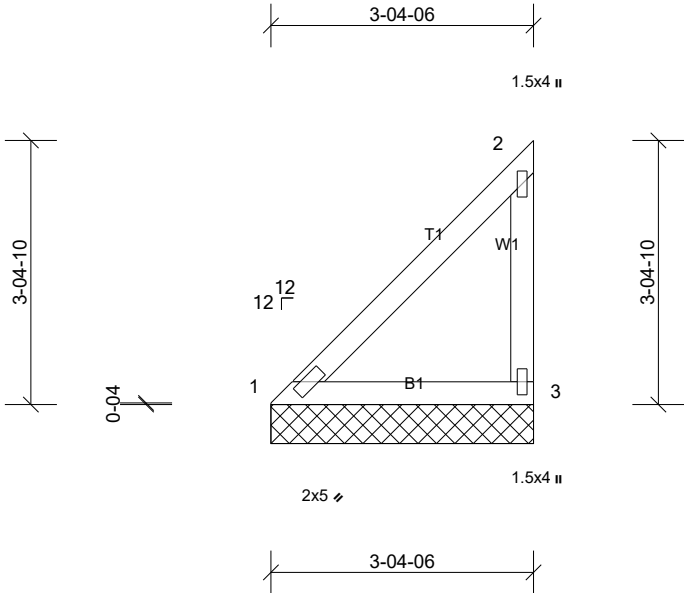
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-370/114, 2-3=-438/85, 1-6=-452/64, 3-4=-414/84
BOT CHORD 4-5=-139/271
WEBS 1-5=-32/263, 3-5=-206/256

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 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.
- Bearings are assumed to be: , Joint 4 SPF No.2 crushing capacity of 425 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 6.

Job	Truss	Truss Type	Qty	Ply	
21040572	V1	Valley	1	1	Job Reference (optional)



Scale = 1:29.6

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MP							Weight: 12 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-4-6 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=3-04-06, (min. 1-08), 3=3-04-06, (min. 1-08)
 Max Horiz 1=92 (LC 7)
 Max Uplift 3=-35 (LC 10)
 Max Grav 1=135 (LC 18), 3=147 (LC 17)

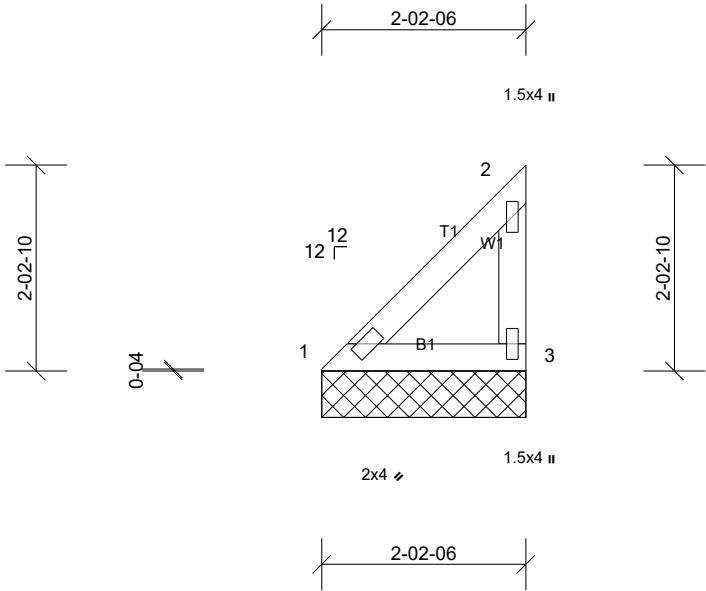
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 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.
- 5) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21040572	V2	Valley	1	1	



Scale = 1:24.9

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MP							Weight: 7 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 1=2-02-06, (min. 1-08), 3=2-02-06, (min. 1-08)
Max Horiz 1=56 (LC 7)
Max Uplift 3=-22 (LC 10)
Max Grav 1=85 (LC 18), 3=93 (LC 17)

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

NOTES

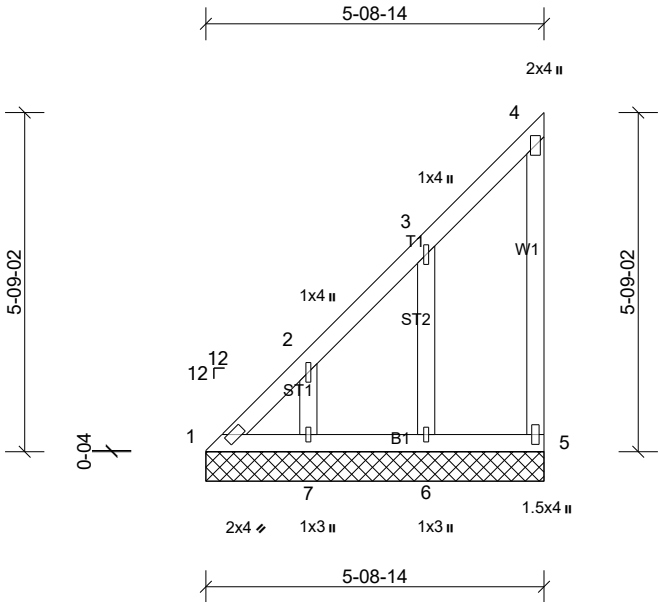
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 5) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21040572	V3	Valley	1	1	

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:43
ID:a7nzoSwmcA94hgnFM_8lfxz0Uk7-l4TUP9XF6s7Np9DoC5Qdkwp6h1nB?V43jtTW0yv8PW

Page: 1



Scale = 1:39.3

Loading	(psf)	Spacing	2-00-00	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
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	5	n/a	n/a	
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH							Weight: 26 lb FT = 20%

LUMBER

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

9) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-8-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

All bearings 5-08-14.
(lb) - Max Horiz 1=165 (LC 7)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5, 6, 7
Max Grav All reactions 250 (lb) or less at joint (s) 1, 5, 6, 7

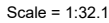
FORCES

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

NOTES

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 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) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 1, 6, 7.

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:43 Page: 1
ID:QVzyivXdRxVKLWA7pXC42zQX1?-I4TUP9XFX6s7Np9DoC5QdkwrLh1nB?Y43jtTW0yv8PW



LUMBER

BRACING

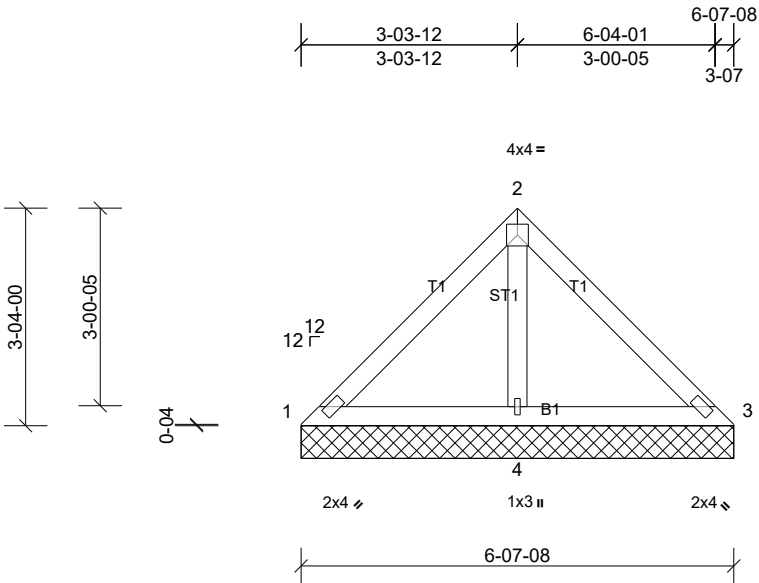
REACTIONS (size) 1=5-00-00, (min. 1-08), 3=5-00-00,
(min. 1-08), 4=5-00-00, (min. 1-08)
Max Horiz 1=47 (LC 6)
Max Uplift 4=28 (LC 10)
Max Grav 1=62 (LC 21), 3=62 (LC 22), 4=299
(LC 1)

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; and 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 4.
- 8) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21040572	V7	Valley	1	1	



Loading	(psf)	Spacing	2-00-00	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH							Weight: 20 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
OTHERS	2x4 SPF No.2
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-7-8 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
REACTIONS	
(size)	1=6-07-08, (min. 1-08), 3=6-07-08, (min. 1-08), 4=6-07-08, (min. 1-08)
Max Horiz	1=-63 (LC 6)
Max Uplift	4=-42 (LC 10)
Max Grav	1=74 (LC 21), 3=74 (LC 22), 4=417 (LC 1)
FORCES	
(lb) - Max. Comp./Max. Ten. - All forces	250
(lb) or less except when shown.	
WEBS	2-4=-291/89

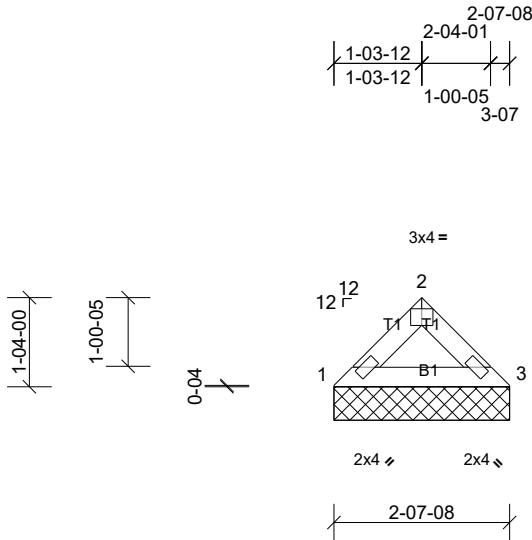
- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - 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.
 - All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 4.
 - This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
21040572	V8	Valley	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:43
ID:uhXLvF_9OI3MyV5MhW2RdFzQX1_-l4TUP9XFX6s7Np9DoC5Qdkwrh2EB?y43jtTW0yv8PW

Page: 1



Scale = 1:34.6

Loading	(psf)	Spacing		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MP							Weight: 6 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-7-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=2-07-08, (min. 1-08), 3=2-07-08, (min. 1-08)
Max Horiz 1=-23 (LC 6)
Max Uplift 1=-2 (LC 10), 3=-2 (LC 11)
Max Grav 1=105 (LC 1), 3=105 (LC 1)

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

NOTES

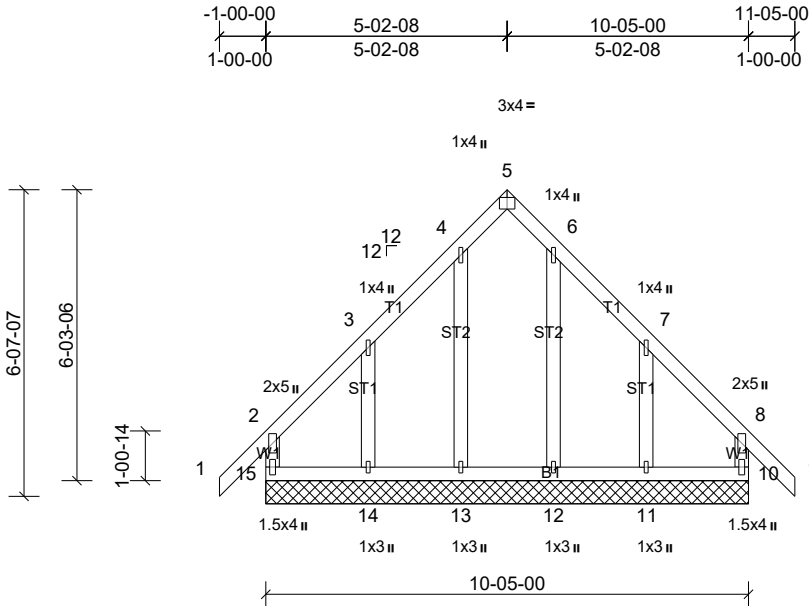
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 1 and 2 lb uplift at joint 3.
- This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
21040572	W1	Common Supported Gable	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:43
ID:cuFYaUI512TXhefYmh1mDyzQX0Z-Huv6CpWcmokGlfa1EUZB4WNf4HhWSYxwq38v_ayv8PX

Page: 1



Scale = 1:49.9

Loading	(psf)	Spacing	2-00-00	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	10	n/a	n/a	
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MR							Weight: 51 lb FT = 20%

LUMBER

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

BRACING

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

REACTIONS

All bearings 10-05-00.
(lb) - Max Horiz 15=-151 (LC 8)
Max Uplift All uplift 100 (lb) or less at joint(s)
10, 15 except 11=-161 (LC 11),
14=-162 (LC 10)
Max Grav All reactions 250 (lb) or less at joint
(s) 10, 11, 12, 13, 14, 15

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 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 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.
- 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.

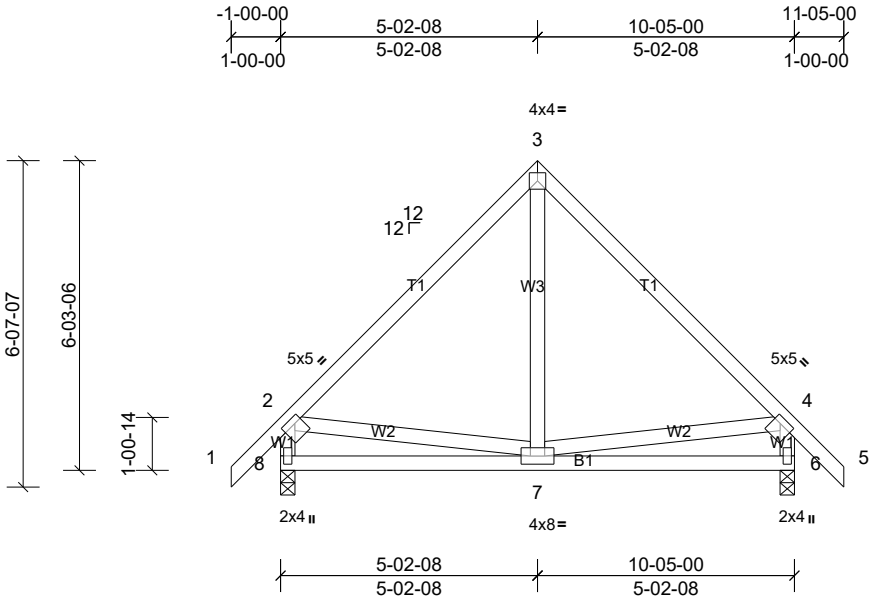
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 10 except (jt=lb) 14=162, 11=161.
- This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21040572	W2	Common	3	1	

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:43
ID:QVzyivzXdRxVKLWA7pXC42zQX1?-Huv6CpWcmokGlfa1EUZB4WNcOHfbSY_wq38v_ayv8PX

Page: 1



Scale = 1:46.9

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.01	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	-0.04	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2012/TPI2007	Matrix-MSH							Weight: 51 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 6=3-08, (min. 1-08), 8=3-08, (min. 1-08)
Max Horiz 8=-151 (LC 8)
Max Uplift 6=-17 (LC 11), 8=-17 (LC 10)
Max Grav 6=474 (LC 1), 8=474 (LC 1)

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

TOP CHORD 2-3=-380/79, 3-4=-380/79, 2-8=-429/108, 4-6=-429/108
BOT CHORD 7-8=-167/262

NOTES

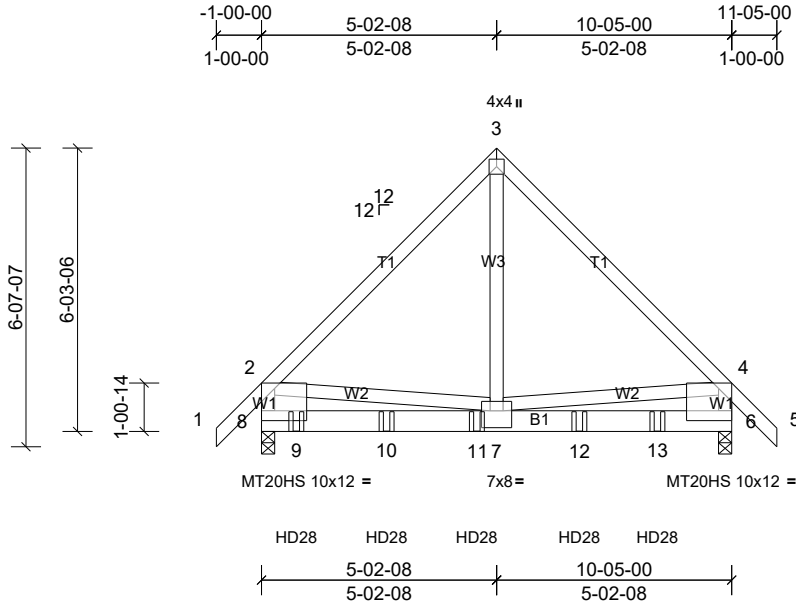
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 8 and 17 lb uplift at joint 6.
- 7) This truss is designed in accordance with the 2012 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

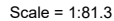
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
21040572	W3	Common Girder	1	2	

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:43
ID:fE0Mb_4AVC4Dvjju9CBJyxzQX0s-Huv6CpWcmokGlfa1EUZB4WNaQHYsSU9wq38v_ayv8PX

Page: 1



Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri Jul 23 16:33:43
ID:RGqYDb4DszzVQpfPggWXiKz3MGQ-I4TUP9XFx6s7Np9DoC5QdkwdihuvBqh43jtTW0yv8PW



NOTES

- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) V (IRC2012)=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone 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=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- 4) Bearings are assumed to be: , Joint 4 SPF No.2 crushing capacity of 425 psi.
- 5) Refer to girder(s) for truss to truss connections.