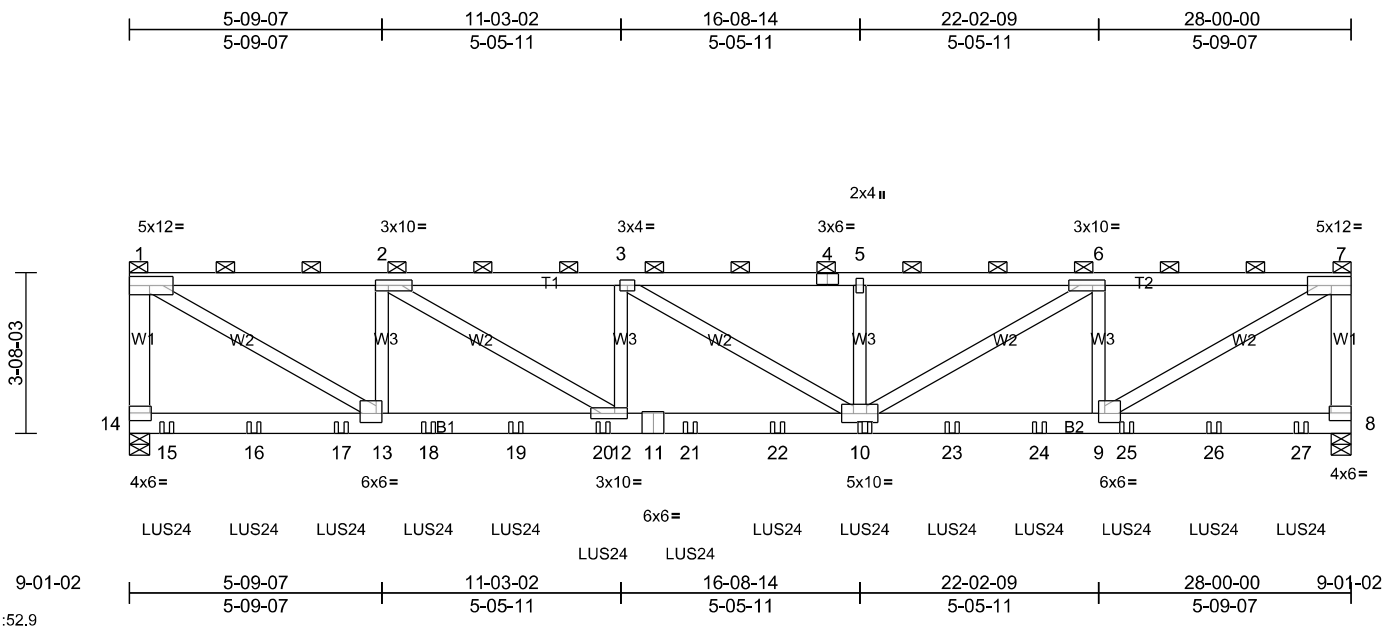
Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	A1GD	Flat Girder	1	2	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.81 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:C52b7ParpvSmv9pri4OL_lz4k9_-868I7tNieZTZziVj2KRmz0G8gXDcnsCJxQFe_eyMYhM



Scale = 1:52.9

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.38	10-12	>873	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.53	10-12	>628	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 280 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SPF 2100F 1.8E
WEBS 2x4 SPF No.2 *Except* 14-1,7-8:2x6 SPF No.2

BRACING
TOP CHORD 2-0-0 oc purlins (2-10-11 max.): 1-7, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 8=5-08, (min. 3-04), 14=5-08, (min. 3-05)
Max Horiz 14=-94 (LC 6)
Max Uplift 8=-359 (LC 7), 14=-363 (LC 6)
Max Grav 8=5093 (LC 1), 14=5174 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-4363/334, 1-2=-7059/507, 2-3=-10367/727, 3-4=-10316/724, 4-5=-10316/724, 5-6=-10316/724, 6-7=-7065/507, 7-8=-4365/334
BOT CHORD 13-18=-547/7059, 18-19=-547/7059, 19-20=-547/7059, 12-20=-547/7059, 11-12=-768/10367, 11-21=-768/10367, 21-22=-768/10367, 10-22=-768/10367, 10-23=-520/7065, 23-24=-520/7065, 9-24=-520/7065
WEBS 7-9=-563/8014, 2-13=-2560/251, 1-13=-563/8006, 2-12=-280/3864, 3-12=-517/106, 5-10=-533/99, 6-10=-275/3798, 6-9=-2533/249

NOTES
1) 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 9-00 oc, 2x4 - 1 row at 6-00 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 9-00 oc.
Web connected as follows: 2x4 - 1 row at 9-00 oc,
Except member 5-10 2x4 - 1 row at 7-00 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; 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
4) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 363 lb uplift at joint 14 and 359 lb uplift at joint 8.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Use Simpson Strong-Tie LUS24 (4-SD9112 Girder, 2-SD9212 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 0-10-4 from the left end to 26-10-4 to connect truss(es) to front face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.

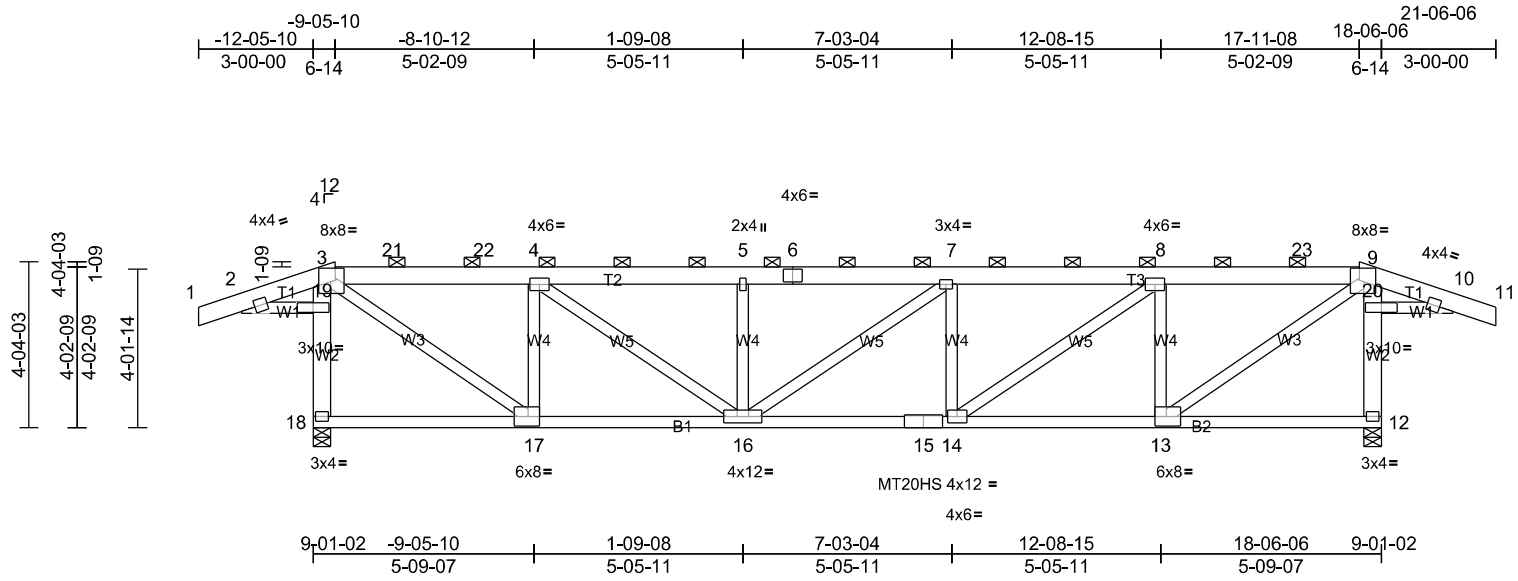
LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-7=-100, 8-14=-20
Concentrated Loads (lb)
Vert: 10=-497 (F), 15=-501 (F), 16=-497 (F), 17=-497 (F), 18=-497 (F), 19=-497 (F), 20=-497 (F), 21=-497 (F), 22=-497 (F), 23=-497 (F), 24=-497 (F), 25=-497 (F), 26=-497 (F), 27=-498 (F)

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	A2	Hip	1	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering — Run: 8.81 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] — Page: 1

ID:eZQij73N4OqSYv8IriayxUz4k74-ZhqtmuPbxUr8q9EHjS?Tbeunfk7W_GeldOTlazyMYhJ



Scale = 1:60.5

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.26	14-16	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.35	14-16	>939	180	MT20HS	148/108
TCDL	10.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.09	12	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 162 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except* 12-9,18-3:2x6 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-4-2 max.): 3-9, 9-20, 3-19. Except:
4-9-0 oc bracing: 12-20, 18-19
BOT CHORD Rigid ceiling directly applied or 1-4-12 oc bracing.

REACTIONS (size) 12=5-08, (min. 3-14), 18=5-08, (min. 3-14)
Max Horiz 18=74 (LC 11)
Max Uplift 12=-162 (LC 9), 18=-162 (LC 8)
Max Grav 12=2482 (LC 30), 18=2482 (LC 30)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-181/890, 3-21=-2742/122, 21-22=-2742/122, 4-22=-2744/122, 4-5=-4058/161, 5-6=-4058/161, 6-7=-4058/161, 7-8=-4055/162, 8-23=-2745/122, 9-23=-2743/122, 9-10=-183/890, 12-20=-2425/192, 9-20=-2416/183, 18-19=-2424/192, 3-19=-2415/183
BOT CHORD 16-17=-123/2742, 15-16=-154/4055, 14-15=-154/4055, 13-14=-96/2743
WEBS 3-17=-127/3314, 4-17=-1782/143, 8-14=-71/1602, 8-13=-1782/143, 9-13=-126/3315, 5-16=-816/99, 4-16=-70/1608, 7-14=-812/106, 2-19=-791/200, 10-20=-791/202

NOTES

1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 6-5-10 to 13-11-5, Interior (1) 13-11-5 to 37-2-14, Exterior (2) 37-2-14 to 40-5-10 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) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 162 lb uplift at joint 18 and 162 lb uplift at joint 12.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

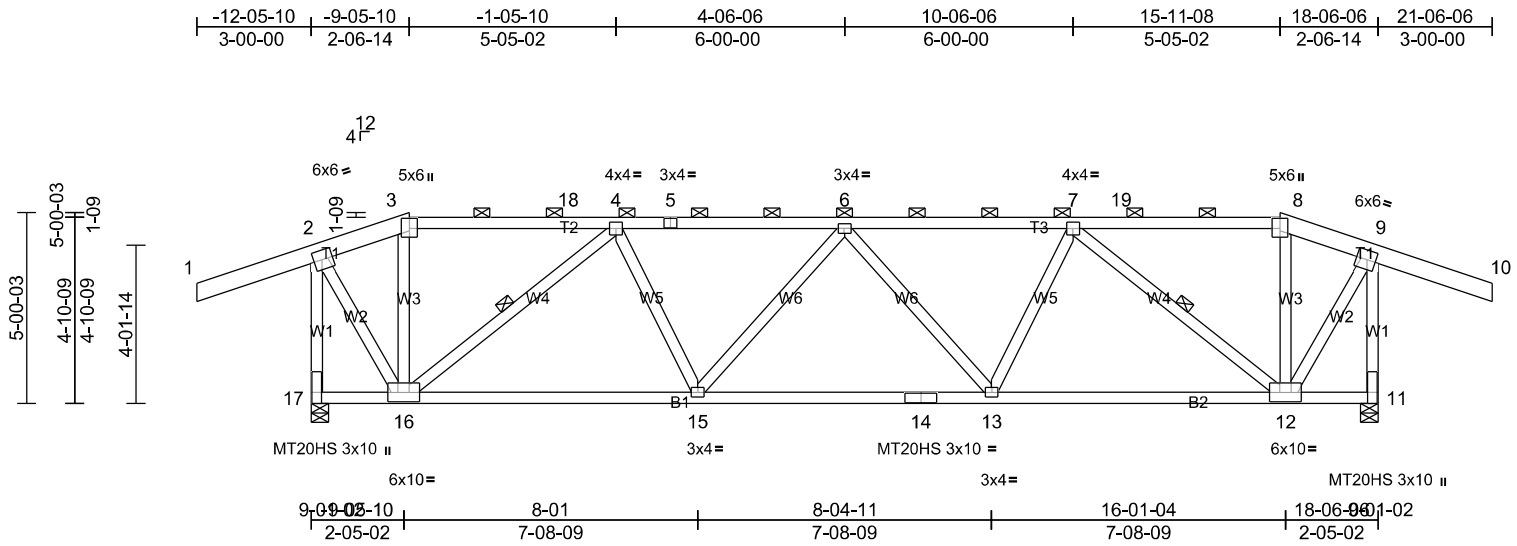
LOAD CASE(S) Standard

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	A3	Hip	1	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.81 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:oTF9pqKoysIMO8d80KPkkwz4k1Z-1tNGzEQDinz?RJpUHAWi8sRqg8UWjmous2Dr7PyMYhI



Scale = 1:60.5

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.22	13-15	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.32	13-15	>999	180	MT20HS	148/108
TCDL	10.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.12	11	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 146 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SPF No.2 *Except* 3-5,5-8:2x4 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 (2-2-0 max.): 3-8.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 4-16, 7-12

REACTIONS (size) 11=5-08, (min. 3-08), 17=5-08, (min. 3-08)
Max Horiz 17=-91 (LC 10)
Max Uplift 11=-182 (LC 9), 17=-182 (LC 8)
Max Grav 11=2235 (LC 30), 17=2235 (LC 30)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1090/94, 3-18=-1020/73, 4-18=-1020/73, 4-5=-3141/129, 5-6=-3141/129, 6-7=-3141/129, 7-19=-1020/73, 8-19=-1020/73, 8-9=-1090/94, 9-11=-2238/177, 2-17=-2238/172
BOT CHORD 15-16=-133/2859, 14-15=-151/3518, 13-14=-151/3518, 12-13=-116/2859
WEBS 3-16=-66/294, 8-12=-66/294, 9-12=-14/1984, 2-16=-14/1984, 4-15=0/667, 4-16=-2382/123, 6-15=-585/79, 6-13=-585/79, 7-13=0/667, 7-12=-2382/123

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 6-5-10 to 9-7-6, Interior (1) 9-7-6 to 12-0-8, Exterior (2) 12-0-8 to 16-3-7, Interior (1) 16-3-7 to 34-10-12, Exterior (2) 34-10-12 to 40-5-10 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) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 182 lb uplift at joint 17 and 182 lb uplift at joint 11.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

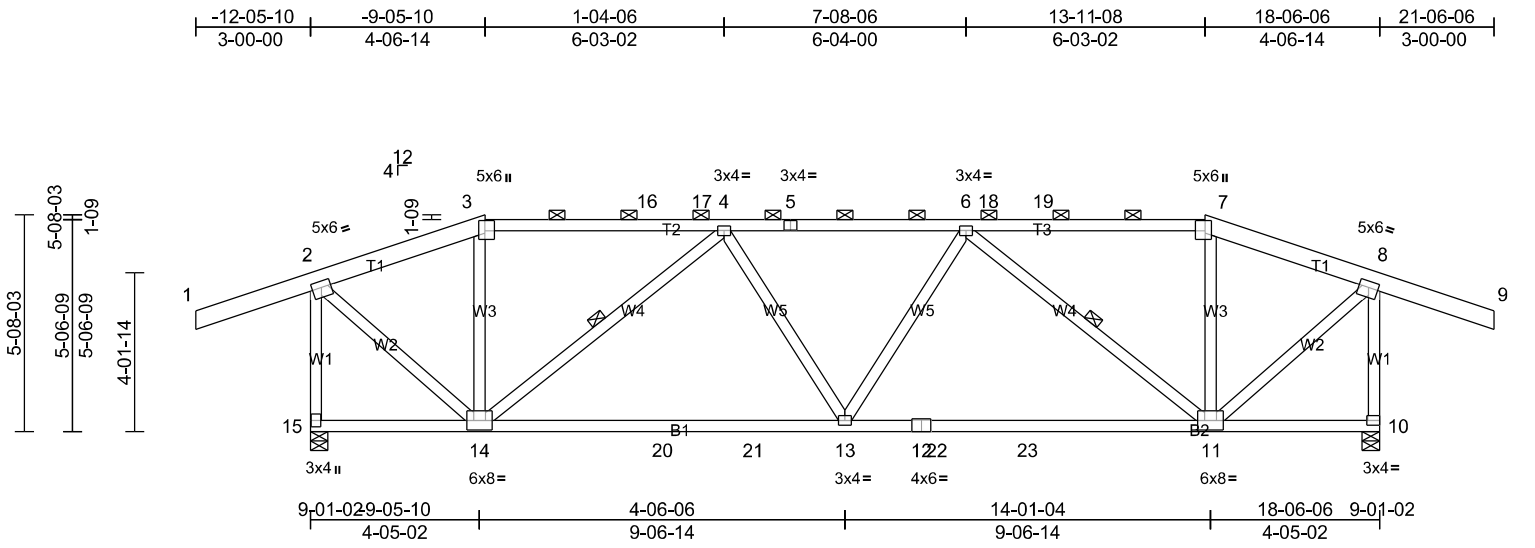
LOAD CASE(S) Standard

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	A4	Hip	1	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.81 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:6Apx7HSVH7uJRHgpPf3JTKz4k07-1tNGzEQDinz?RJpUHAWi8sRsh8WYjmbus2Dr7PyMYhI



Scale = 1:60.4

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.18	11-13	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.34	11-13	>979	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.08	10	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 145 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF No.2 *Except* 3-5,5-7:2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF 2100F 1.8E *Except* 12-10:2x4 SPF No.2

WEBS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-8-3 oc purlins, except end verticals, and 2-0-0 oc purlins (4-0-10 max.): 3-7.

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

WEBS 1 Row at midpt 4-14, 6-11

REACTIONS (size) 10=5-08, (min. 3-03), 15=5-08, (min. 2-09)
Max Horiz 15=-84 (LC 10)
Max Uplift 10=-179 (LC 9), 15=-179 (LC 8)
Max Grav 10=2023 (LC 30), 15=2023 (LC 30)

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

TOP CHORD 2-3=-1556/118, 3-16=-1454/116, 16-17=-1454/116, 4-17=-1454/116, 4-5=-2853/127, 5-6=-2853/127, 6-18=-1454/116, 18-19=-1454/116, 7-19=-1454/116, 7-8=-1557/118, 8-10=-2004/225, 2-15=-2003/226

BOT CHORD 14-20=-117/2792, 20-21=-117/2792, 13-21=-117/2792, 12-13=-114/2791, 12-22=-114/2791, 22-23=-114/2791, 11-23=-114/2791

WEBS 4-14=-1731/99, 6-11=-1729/99, 8-11=-24/1954, 2-14=-24/1952

NOTES

1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 6-5-10 to 18-3-7, Interior (1) 18-3-7 to 28-7-13, Exterior (2) 28-7-13 to 40-5-10 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) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 179 lb uplift at joint 15 and 179 lb uplift at joint 10.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

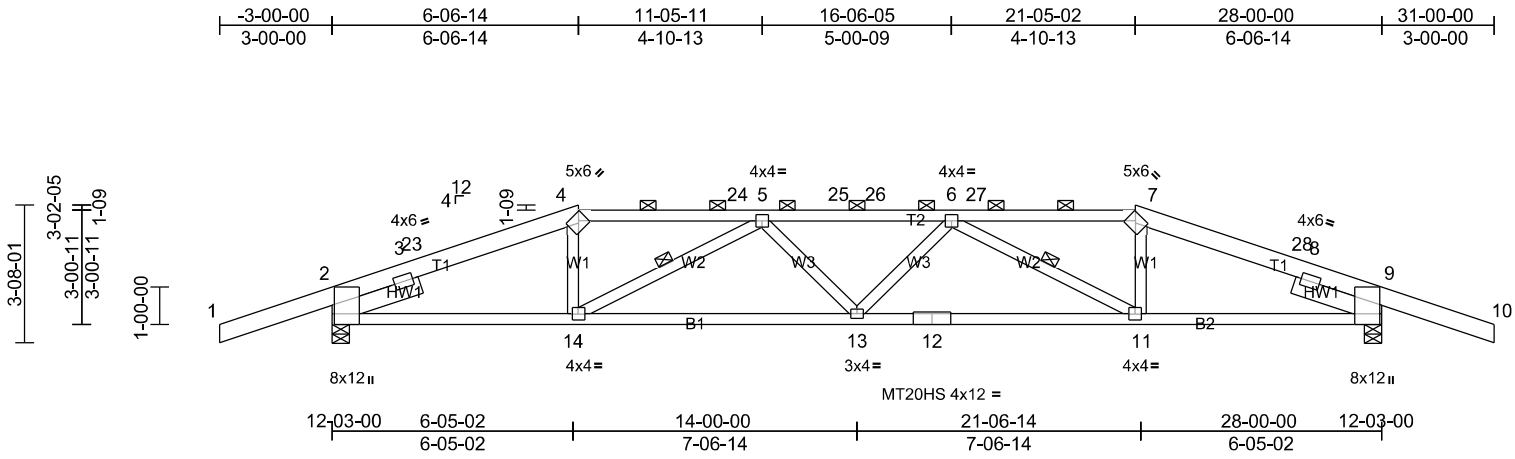
LOAD CASE(S) Standard

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	B1	Hip	1	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.73 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:fKuhI?TCVxTOWB5zKIZ0t1z4k_p-V4xeAaRrT55s3TOgqt1xg3z3_Yr3SH325iyPfsyMYhH



Scale = 1:61.5

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.44	13-14	>769	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.63	13-14	>537	180	MT20HS	148/108
TCDL	10.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.16	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 121 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF 2100F 1.8E *Except* 4-7:2x4 SPF 2100F 1.8E
BOT CHORD 2x4 SPF 2100F 1.8E
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 -- 2-05-12, Right 2x6 SPF No.2 -- 2-05-12

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-7-11 oc purlins, except 2-0-0 oc purlins (3-1-2 max.): 4-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-14, 6-11

REACTIONS (size) 2=5-08, (min. 2-09), 9=5-08, (min. 2-09)
Max Horiz 2=45 (LC 8)
Max Uplift 2=-167 (LC 8), 9=-167 (LC 9)
Max Grav 2=2042 (LC 31), 9=2042 (LC 31)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-523/858, 3-23=-3674/105, 4-23=-3669/122, 4-24=-3344/130, 5-24=-3344/130, 5-25=-5111/163, 25-26=-5111/163, 6-26=-5111/163, 6-27=-3344/131, 7-27=-3344/131, 7-28=-3669/122, 8-28=-3674/105, 8-9=-254/858
BOT CHORD 2-14=-68/3394, 13-14=-149/5018, 12-13=-141/5018, 11-12=-141/5018, 9-11=-42/3394
WEBS 4-14=0/946, 7-11=0/946, 5-14=-1909/111, 6-11=-1909/111

NOTES

1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -3-0-0 to 0-0-0, Interior (1) 0-0-0 to 2-3-15, Exterior (2) 2-3-15 to 10-9-13, Interior (1) 10-9-13 to 17-2-3, Exterior (2) 17-2-3 to 25-8-1, Interior (1) 25-8-1 to 28-0-0, Exterior (2) 28-0-0 to 31-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 167 lb uplift at joint 2 and 167 lb uplift at joint 9.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

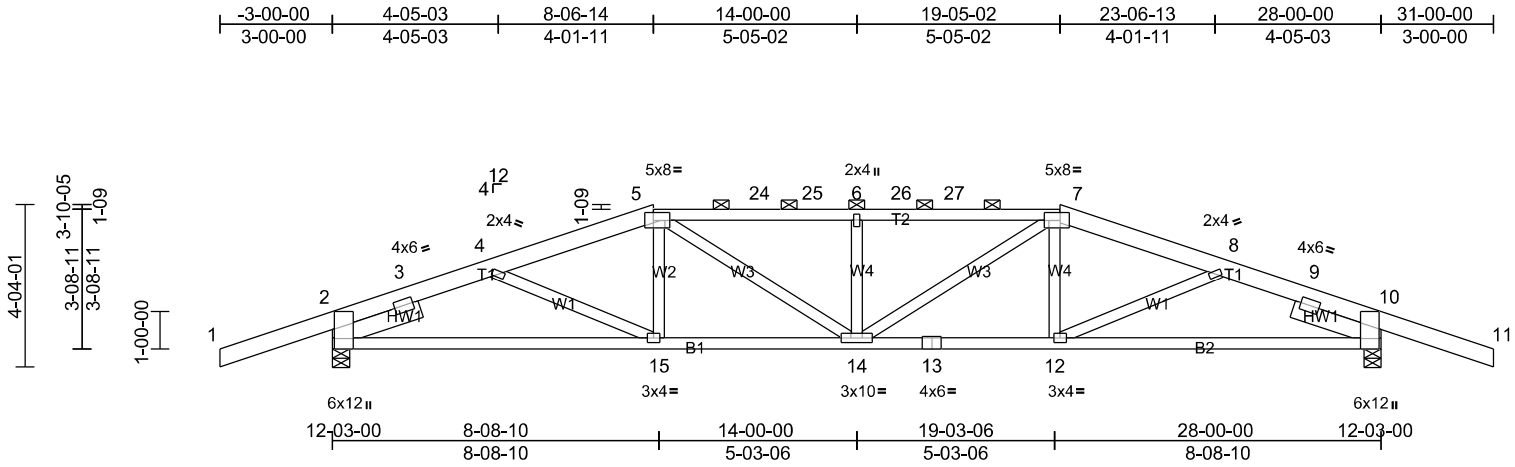
LOAD CASE(S) Standard

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	B2	Hip	1	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.73 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:cip8QdII??HahE1HvUSK1uz4jxs-V4xeAaRrT55s3TOgqt1xg3z2jYrwSJF25iyPfsyMYhH



Scale = 1:61.6

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.24	14	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.35	14-15	>960	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.11	10	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 132 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF No.2 *Except* 5-7:2x4 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 -- 2-05-12, Right 2x6 SPF No.2 -- 2-05-12

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-3-14 oc purlins, except 2-0-0 oc purlins (3-5-2 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=5-08, (min. 3-09), 10=5-08, (min. 3-09)
Max Horiz 2=-51 (LC 9)
Max Uplift 2=-161 (LC 8), 10=-161 (LC 9)
Max Grav 2=2253 (LC 31), 10=2253 (LC 31)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-544/810, 3-4=-2903/120, 4-5=-3149/135, 5-24=-3787/187, 24-25=-3787/187, 6-25=-3787/187, 6-26=-3787/187, 26-27=-3787/187, 7-27=-3787/187, 7-8=-3149/135, 8-9=-2903/121, 9-10=-451/810
BOT CHORD 2-15=-106/2599, 14-15=-54/2997, 13-14=-20/2997, 12-13=-20/2997, 10-12=-26/2599
WEBS 4-15=-57/567, 5-14=-76/935, 6-14=-907/110, 7-14=-77/935, 8-12=-57/567

NOTES

1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -3-0-0 to 0-0-0, Interior (1) 0-0-0 to 4-1-12, Exterior (2) 4-1-12 to 12-9-13, Interior (1) 12-9-13 to 15-2-3, Exterior (2) 15-2-3 to 23-10-4, Interior (1) 23-10-4 to 28-0-0, Exterior (2) 28-0-0 to 31-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 161 lb uplift at joint 2 and 161 lb uplift at joint 10.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

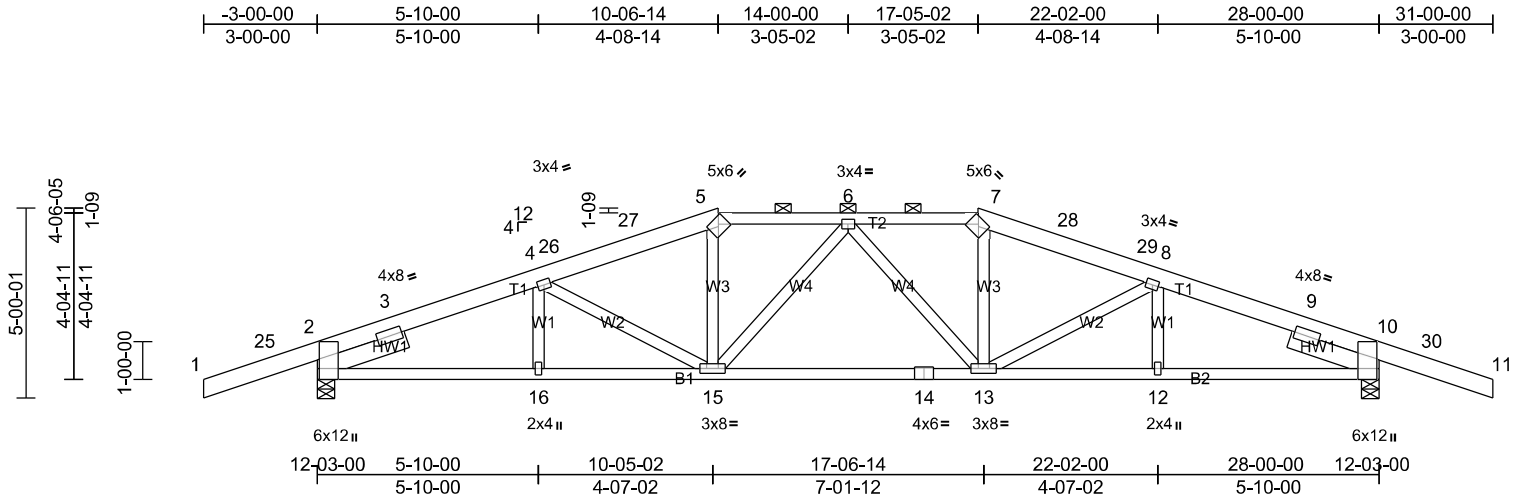
LOAD CASE(S) Standard

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	B3	Hip	1	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.73 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:5E?fT1ohkQ7N?ScpxY?VW1z4jwW-V4xeAaRrT55s3TOgqt1xg3z0hYt5SJF25iyPfsyMYhH



Scale = 1:60.8

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.22	15-16	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.34	13-15	>988	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.11	10	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 137 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF No.2 *Except* 5-7:2x4 SPF No.2
BOT CHORD 2x4 SPF 2100F 1.8E
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 -- 2-05-12, Right 2x6 SPF No.2 -- 2-05-12

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (3-4-8 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=5-08, (min. 3-02), 10=5-08, (min. 3-02)
Max Horiz 2=-59 (LC 13)
Max Uplift 2=-154 (LC 8), 10=-154 (LC 9)
Max Grav 2=2465 (LC 31), 10=2465 (LC 31)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-402/847, 3-4=-3430/98, 4-26=-2984/123, 26-27=-2913/129, 5-27=-2886/138, 5-6=-2756/152, 6-7=-2756/152, 7-28=-2886/138, 28-29=-2913/129, 8-29=-2984/123, 8-9=-3430/99, 9-10=-286/847
BOT CHORD 2-16=-62/3094, 15-16=-62/3094, 14-15=-43/2797, 13-14=-43/2797, 12-13=-5/3094, 10-12=-5/3094
WEBS 4-15=-433/163, 5-15=0/410, 7-13=0/410, 8-13=-433/164, 6-15=-451/140, 6-13=-451/140

NOTES

1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -3-0-0 to 0-0-0, Interior (1) 0-0-0 to 6-3-15, Exterior (2) 6-3-15 to 21-8-1, Interior (1) 21-8-1 to 28-0-0, Exterior (2) 28-0-0 to 31-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 154 lb uplift at joint 2 and 154 lb uplift at joint 10.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

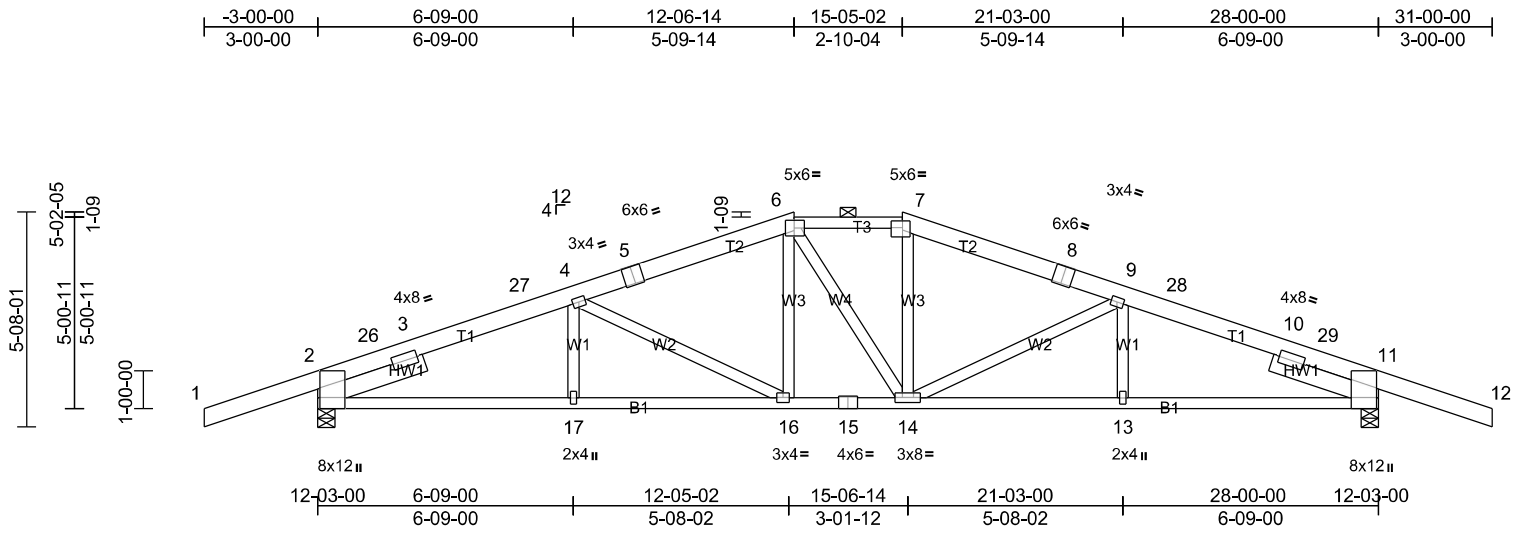
LOAD CASE(S) Standard

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	B4	Hip	1	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.81 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:iHU4Fu_oQrbKNggrErHj1vz4juz-zGV0OwSTEPDihdysObYADHWAZxC1BhnBKMiyBIyMYhG



Scale = 1:60.9

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.28	16-17	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.40	16-17	>845	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.13	11	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 141 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF No.2 *Except* 6-7:2x4 SPF No.2
BOT CHORD 2x4 SPF 2100F 1.8E
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 -- 2-11-12, Right 2x6 SPF No.2 -- 2-11-12

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-11-5 oc purlins, except 2-0-0 oc purlins (3-1-9 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=5-08, (min. 3-06), 11=5-08, (min. 3-06)
Max Horiz 2=-67 (LC 13)
Max Uplift 2=-145 (LC 8), 11=-145 (LC 9)
Max Grav 2=2677 (LC 31), 11=2677 (LC 31)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-26=-393/844, 3-26=-299/850, 3-27=-3981/67, 4-27=-3821/83, 4-5=-3224/111, 5-6=-3119/127, 6-7=-2954/142, 7-8=-3121/126, 8-9=-3225/111, 9-28=-3821/84, 10-28=-3980/67, 10-29=-300/850, 11-29=-307/844
BOT CHORD 2-17=-61/3625, 16-17=-50/3625, 15-16=0/2953, 14-15=0/2953, 13-14=0/3625, 11-13=0/3625
WEBS 4-16=-773/90, 6-16=0/454, 6-14=-295/299, 7-14=0/446, 9-14=-772/91

NOTES

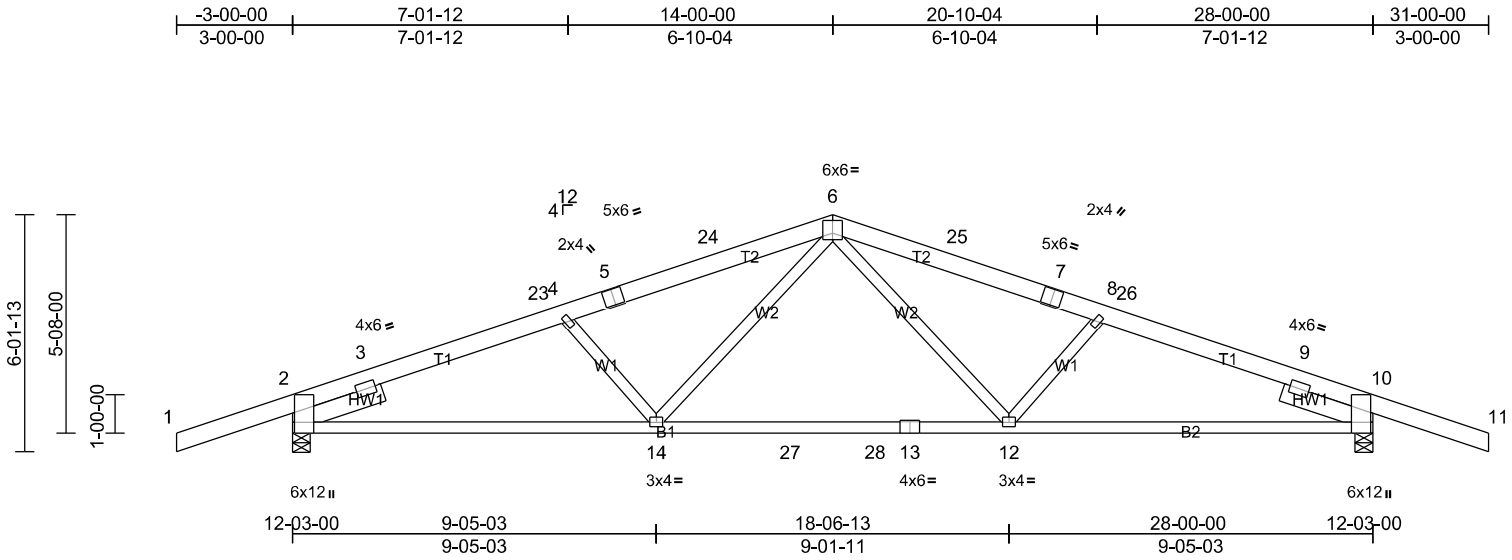
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -3-0-0 to 0-0-0, Interior (1) 0-0-0 to 8-3-15, Exterior (2) 8-3-15 to 19-8-1, Interior (1) 19-8-1 to 28-0-0, Exterior (2) 28-0-0 to 31-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 145 lb uplift at joint 2 and 145 lb uplift at joint 11.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	B5	Common	4	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.73 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1
ID:MDNAAsNlaty93BOlwnKSfyz4jtB-zGV0OwSTEPDihdysObYADHWACxFWBn7BKMiyBIyMYhG



Scale = 1:59.8

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.32	12-14	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.52	12-14	>650	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.11	10	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 129 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SPF No.2
BOT CHORD 2x4 SPF 2100F 1.8E
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 -- 2-05-12, Right 2x6 SPF No.2 -- 2-05-12

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-7-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=5-08, (min. 2-08), 10=5-08, (min. 2-08)
Max Horiz 2=-74 (LC 13)
Max Uplift 2=-138 (LC 8), 10=-138 (LC 9)
Max Grav 2=1980 (LC 1), 10=1980 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-538/882, 3-23=-3130/88, 4-23=-2968/89, 4-5=-2791/46, 5-24=-2719/55, 6-24=-2686/68, 6-25=-2686/68, 7-25=-2719/55, 7-8=-2791/47, 8-26=-2968/89, 9-26=-3130/88, 9-10=-411/882
BOT CHORD 2-14=-118/2851, 14-27=0/2184, 27-28=0/2184, 13-28=0/2184, 12-13=0/2184, 10-12=0/2851
WEBS 6-12=-3/789, 8-12=-583/146, 6-14=-3/789, 4-14=-583/146

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -3-0-0 to 0-0-0, Interior (1) 0-0-0 to 11-0-0, Exterior (2) 11-0-0 to 17-0-0, Interior (1) 17-0-0 to 28-0-0, Exterior (2) 28-0-0 to 31-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 2 and 138 lb uplift at joint 10.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

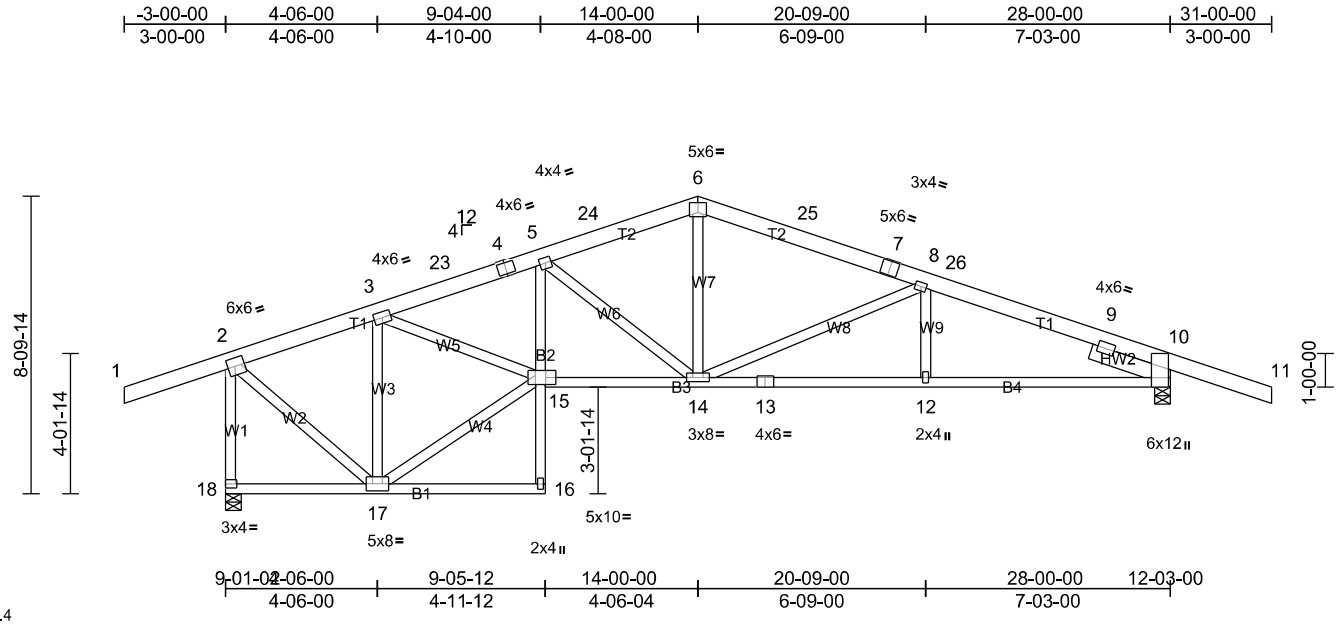
LOAD CASE(S) Standard

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	B6	Roof Special	3	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.81 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:BSr9iAGj9cHfxZ2zFKfofYz4js1-zGV0OwSTEPDihdysObYADHWBxxBSBciBKMiyBIyMYhG



Scale = 1:68.4

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.21	12-14	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.34	12-14	>981	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.18	10	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 159 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 13-10:2x4 SPF 2100F 1.8E

WEBS 2x4 SPF No.2

SLIDER Right 2x6 SPF No.2 -- 2-05-12

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:
6-0-0 oc bracing: 17-18.

REACTIONS (size) 10=5-08, (min. 2-08), 18=5-08, (min. 3-02)
Max Horiz 18=-51 (LC 17)
Max Uplift 10=-134 (LC 9), 18=-137 (LC 8)
Max Grav 10=1970 (LC 1), 18=1987 (LC 1)

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

TOP CHORD 2-3=-1251/79, 3-23=-2968/92, 4-23=-2894/92, 4-5=-2848/103, 5-24=-2362/90, 6-24=-2229/106, 6-25=-2274/99, 7-25=-2298/88, 7-8=-2372/78, 8-26=-2940/60, 9-26=-3085/57, 9-10=-303/872, 2-18=-1950/173

BOT CHORD 14-15=-53/2752, 13-14=0/2809, 12-13=0/2809, 10-12=0/2809

WEBS 3-15=-23/1785, 5-14=-991/108, 2-17=0/1462, 6-14=0/816, 8-14=-912/105, 3-17=-1592/93, 15-17=-55/1297

NOTES

1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -3-0-0 to 0-1-12, Interior (1) 0-1-12 to 11-0-0, Exterior (2) 11-0-0 to 17-0-0, Interior (1) 17-0-0 to 28-0-0, Exterior (2) 28-0-0 to 31-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 18 and 134 lb uplift at joint 10.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

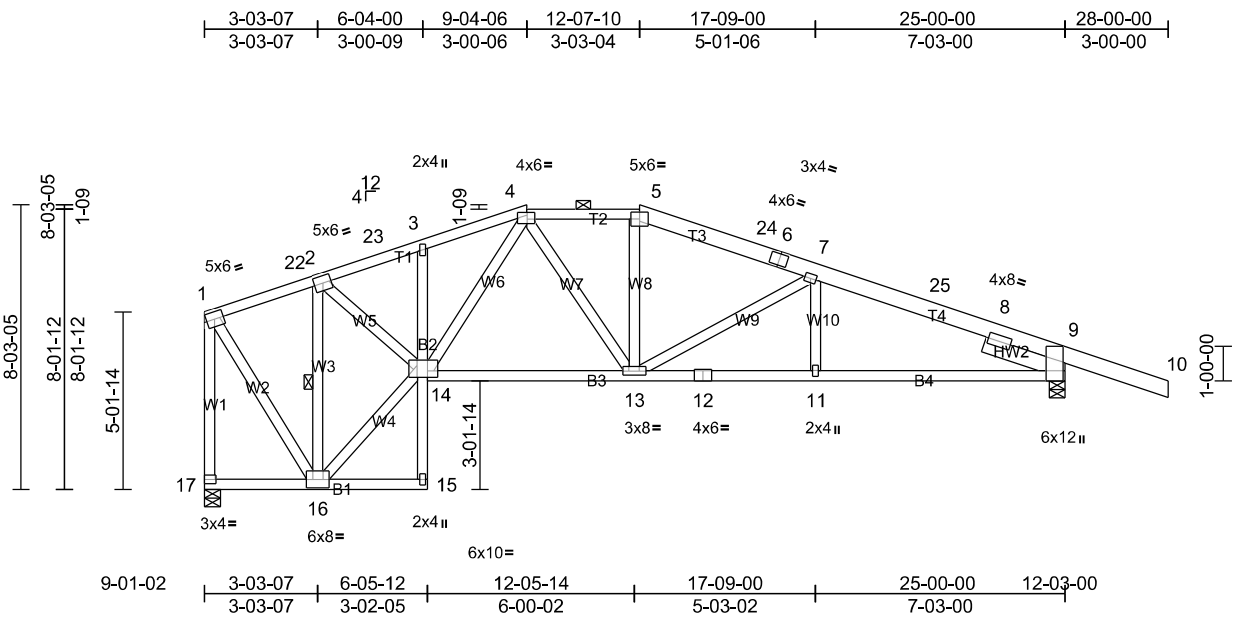
LOAD CASE(S) Standard

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	B7	Hip	1	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.81 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:W25w_Jp4TRsjl_hX68xHi2z4jok-zGV0OwSTEPDihdysObYADHWAVxBGBiBBKMiyBIyMYhG



Scale = 1:67

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.21	11-13	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.28	11-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.19	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 139 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 5-6,6-10:2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 12-9:2x4 SPF 2100F 1.8E

WEBS 2x4 SPF No.2

SLIDER Right 2x6 SPF No.2 -- 2-05-12

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-11-14 oc purlins, except end verticals, and 2-0-0 oc purlins (3-8-4 max.): 4-5.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 15-16.

WEBS 1 Row at midpt 2-16

REACTIONS (size) 9=5-08, (min. 3-02), 17=5-08, (min. 2-15)
Max Horiz 17=-105 (LC 10)
Max Uplift 9=-140 (LC 9), 17=-52 (LC 8)
Max Grav 9=2437 (LC 31), 17=1889 (LC 31)

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

TOP CHORD 1-22=-990/99, 2-22=-856/110, 2-23=-2425/139, 3-23=-2338/149, 3-4=-2427/178, 4-5=-2354/154, 5-24=-2465/142, 6-24=-2504/129, 6-7=-2559/127, 7-25=-3211/92, 8-25=-3380/73, 8-9=-326/854, 1-17=-1852/97

BOT CHORD 3-14=-433/69, 13-14=-4/2141, 12-13=0/3046, 11-12=0/3046, 9-11=0/3046

WEBS 4-13=-22/485, 7-13=-810/93, 2-16=-2184/71, 2-14=-12/1840, 14-16=-9/1235, 1-16=-46/1599, 4-14=-162/305

NOTES

1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-3-7, Interior (1) 3-3-7 to 5-1-7, Exterior (2) 5-1-7 to 16-10-9, Interior (1) 16-10-9 to 25-0-0, Exterior (2) 25-0-0 to 28-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 17 and 140 lb uplift at joint 9.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

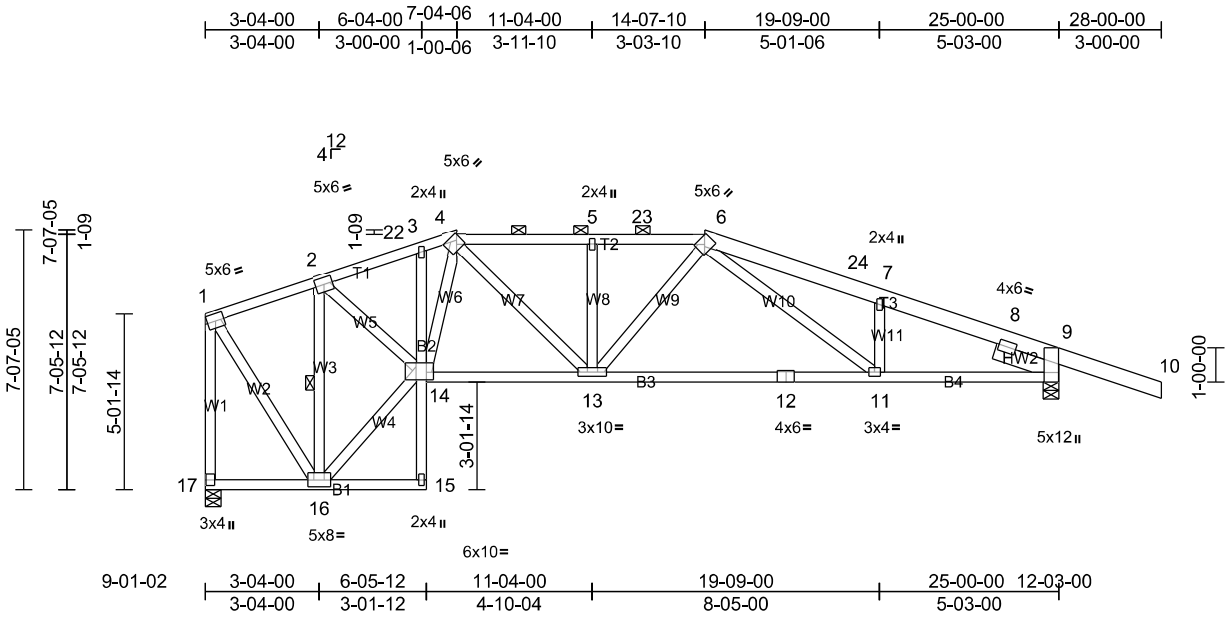
LOAD CASE(S) Standard

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	B8	Hip	1	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.81 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:JZNev?AOXLR2ey5?1bx06Az4jlh-RS3ObGT5?iLZInX3yI3PmU3ObLV0wBULY0RWjkyMYhF



Scale = 1:67.6

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.19	11-13	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.38	11-13	>795	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.16	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 139 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 6-10:2x6 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Right 2x6 SPF No.2 -- 1-11-12

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-13 oc purlins, except end verticals, and 2-0-0 oc purlins (3-5-4 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 9-11.
WEBS 1 Row at midpt 2-16

REACTIONS (size) 9=5-08, (min. 3-09), 17=5-08, (min. 2-09)
Max Horiz 17=-111 (LC 10)
Max Uplift 9=-148 (LC 9), 17=-63 (LC 8)
Max Grav 9=2252 (LC 31), 17=1650 (LC 31)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-868/120, 2-22=-2008/165, 3-22=-1895/170, 3-4=-1925/182, 4-5=-2285/174, 5-23=-2282/173, 6-23=-2282/173, 6-24=-2791/115, 7-24=-2869/100, 7-8=-2982/77, 8-9=-205/898, 1-17=-1614/113
BOT CHORD 13-14=-29/1860, 12-13=-34/2204, 11-12=-34/2204, 9-11=0/2653
WEBS 7-11=-282/175, 2-16=-1877/94, 2-14=-19/1509, 14-16=-26/1078, 1-16=-57/1371, 4-13=-29/735, 6-13=-105/396, 5-13=-637/77, 4-14=-407/90, 6-11=-109/573

NOTES

1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 18-10-9, Interior (1) 18-10-9 to 25-0-0, Exterior (2) 25-0-0 to 28-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 17 and 148 lb uplift at joint 9.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

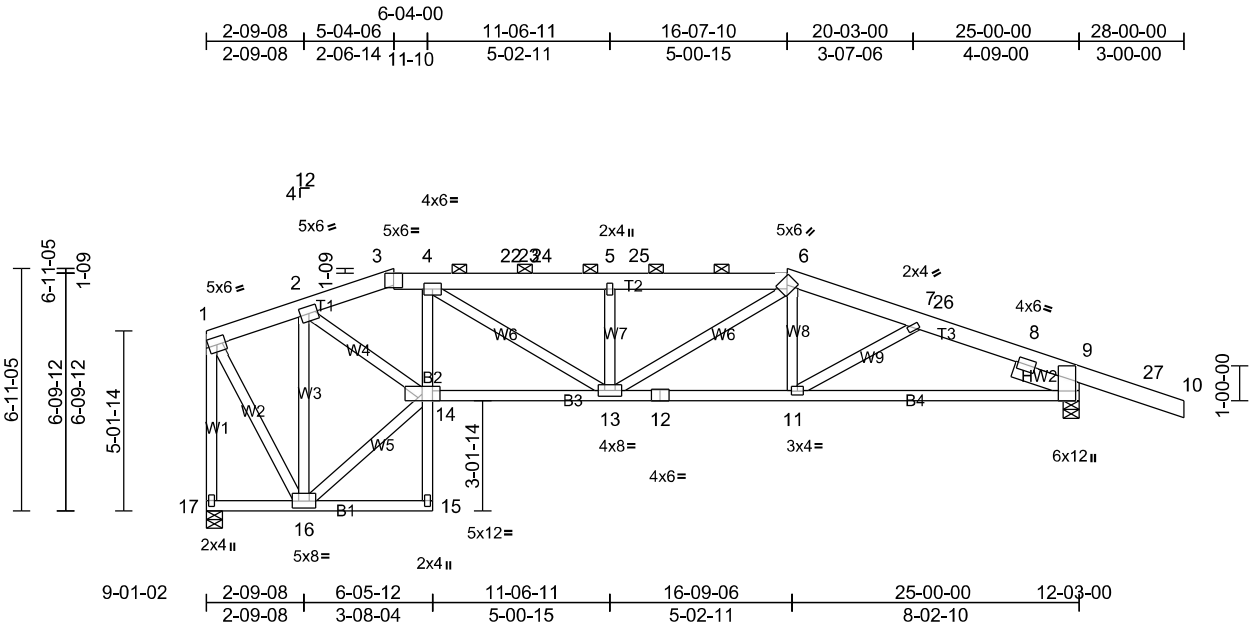
LOAD CASE(S) Standard

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	B9	Hip	1	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.81 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:PEAH0VE5y4J9VrxdMEzLsWz4jhk-RS3ObGT5?iLZInX3yI3PmU3OXLYQw3?LY0RWjkyMYhF



Scale = 1:66.1

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.19	11-13	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.27	11-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.17	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 142 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Right 2x6 SPF No.2 -- 1-11-12

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-1-4 oc purlins, except end verticals, and 2-0-0 oc purlins (3-6-5 max.): 3-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 9=5-08, (min. 3-04), 17=5-08, (min. 2-05)
Max Horiz 17=-114 (LC 10)
Max Uplift 9=-155 (LC 9), 17=-71 (LC 8)
Max Grav 9=2067 (LC 31), 17=1485 (LC 19)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-687/107, 2-3=-2361/157, 3-4=-2282/161, 4-22=-3311/178, 22-23=-3311/178, 23-24=-3311/178, 5-24=-3311/178, 5-25=-3316/179, 6-25=-3311/179, 6-7=-2749/128, 7-26=-2434/104, 8-26=-2528/103, 8-9=-371/862, 1-17=-1455/102
BOT CHORD 4-14=-624/89, 13-14=-30/2356, 12-13=-14/2641, 11-12=-14/2641, 9-11=-10/2248
WEBS 4-13=-58/1128, 5-13=-930/104, 6-13=-45/802, 7-11=-66/480, 1-16=-65/1230, 14-16=-4/773, 2-14=-32/2095, 2-16=-1537/89

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 9-7-5, Interior (1) 9-7-5 to 12-4-11, Exterior (2) 12-4-11 to 20-10-9, Interior (1) 20-10-9 to 25-0-0, Exterior (2) 25-0-0 to 28-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 17 and 155 lb uplift at joint 9.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

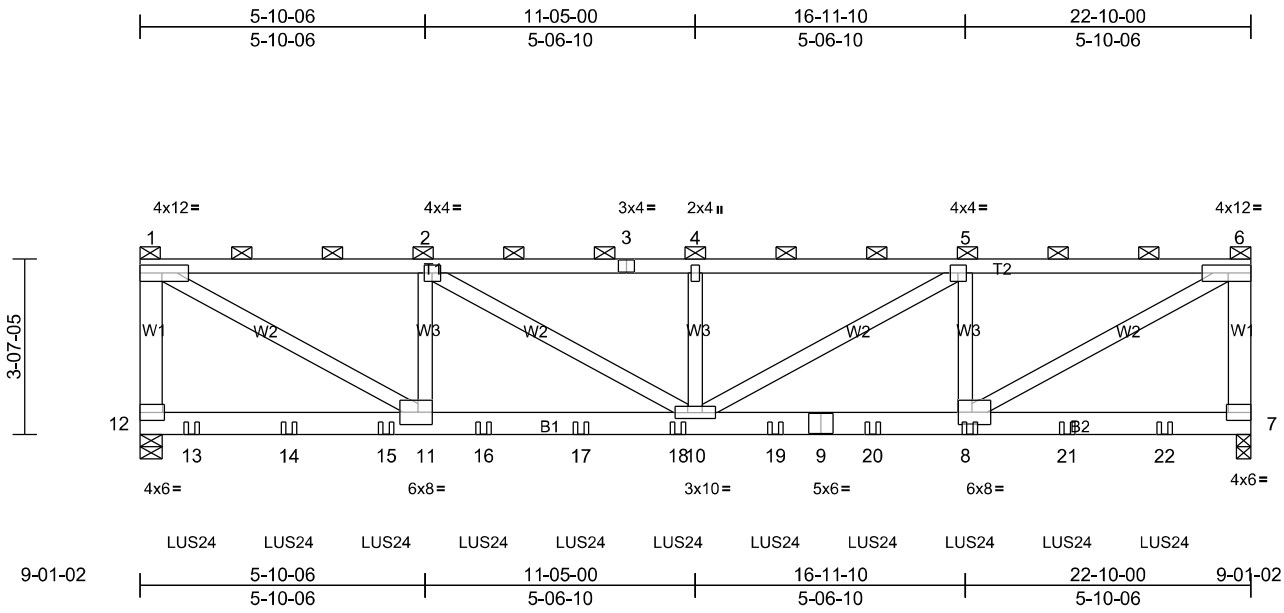
LOAD CASE(S) Standard

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	C1GD	Flat Girder	1	2	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.73 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:8UCuCxfzYkq8KAUqtS1Tl_z4jdK-vedmpcTkm0TQwx6FW0belibc6ls_fYjUngB3GAyMYhE



Scale = 1:47.4

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.20	10-11	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.28	8-10	>942	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.03	7	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 229 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SPF No.2
WEBS 2x4 SPF No.2 *Except* 12-1,6-7:2x6 SPF No.2

BRACING
TOP CHORD 2-0-0 oc purlins (4-3-1 max.): 1-6, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 7=3-08, (min. 3-01), 12=5-08, (min. 3-03)
Max Horiz 12=-92 (LC 6)
Max Uplift 7=-277 (LC 7), 12=-289 (LC 6)
Max Grav 7=3894 (LC 1), 12=4066 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-3346/266, 1-2=-5528/399, 2-3=-7163/503, 3-4=-7163/503, 4-5=-7163/503, 5-6=-5522/399, 6-7=-3346/266
BOT CHORD 11-16=-439/5528, 16-17=-439/5528, 17-18=-439/5528, 10-18=-439/5528, 10-19=-416/5522, 9-19=-416/5522, 9-20=-416/5522, 8-20=-416/5522
WEBS 6-8=-441/6178, 2-11=-1534/182, 1-11=-441/6177, 2-10=-145/1893, 4-10=-537/97, 5-10=-146/1899, 5-8=-1538/183

NOTES
1) 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 9-00 oc, 2x4 - 1 row at 9-00 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 9-00 oc.
Web connected as follows: 2x4 - 1 row at 9-00 oc, Except member 5-8 2x4 - 1 row at 7-00 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; 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
4) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 289 lb uplift at joint 12 and 277 lb uplift at joint 7.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-0-12 from the left end to 21-0-12 to connect truss(es) to back face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.

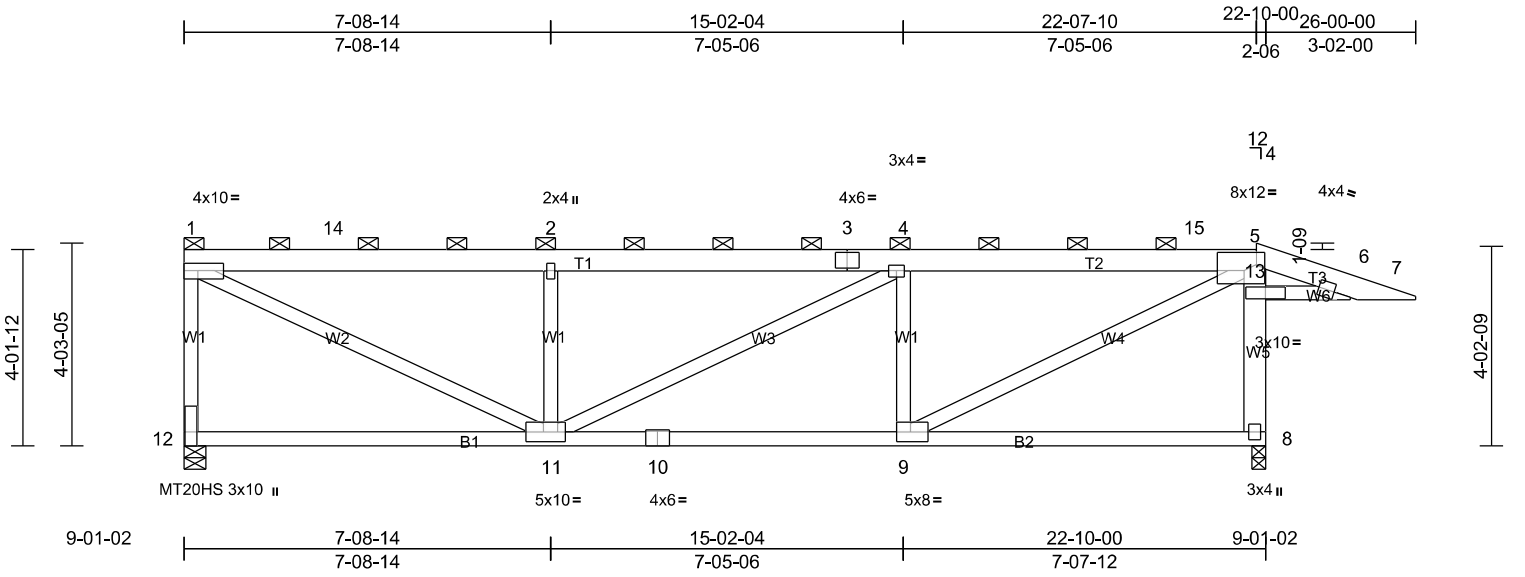
LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-6=-100, 7-12=-20
Concentrated Loads (lb)
Vert: 8=-479, 13=-481, 14=-479, 15=-479, 16=-479, 17=-479, 18=-479, 19=-479, 20=-479, 21=-479, 22=-479

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	C2	Half Hip	1	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.73 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:G4bWCddnTd2eYdBO7z_T44z4jc3-vedmpcTkm0TQwx6FW0belibZflvVfY0UngB3GAyMYhE



Scale = 1:48.7

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.18	9-11	>999	240	MT20HS	148/108
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.25	9-11	>999	180	MT20	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.03	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 120 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except* 8-5:2x6 SPF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-11-12 max.): 1-5, 5-13. Except:
5-1-0 oc bracing: 8-13
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 8=3-08, (min. 3-03), 12=5-08, (min. 3-00)
Max Horiz 12=-112 (LC 10)
Max Uplift 8=-135 (LC 9), 12=-78 (LC 8)
Max Grav 8=2038 (LC 27), 12=1900 (LC 27)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1827/117, 1-14=-2753/117, 2-14=-2753/117, 2-3=-2753/117, 3-4=-2753/117, 4-15=-2684/110, 5-15=-2676/111, 5-6=-133/711, 8-13=-1965/175, 5-13=-1961/169
BOT CHORD 10-11=-110/2678, 9-10=-110/2678
WEBS 1-11=-136/3006, 2-11=-1221/152, 4-9=-1199/149, 5-9=-122/2933, 6-13=-628/145

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 22-7-4, Exterior (2) 22-7-4 to 25-4-10 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) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 12 and 135 lb uplift at joint 8.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

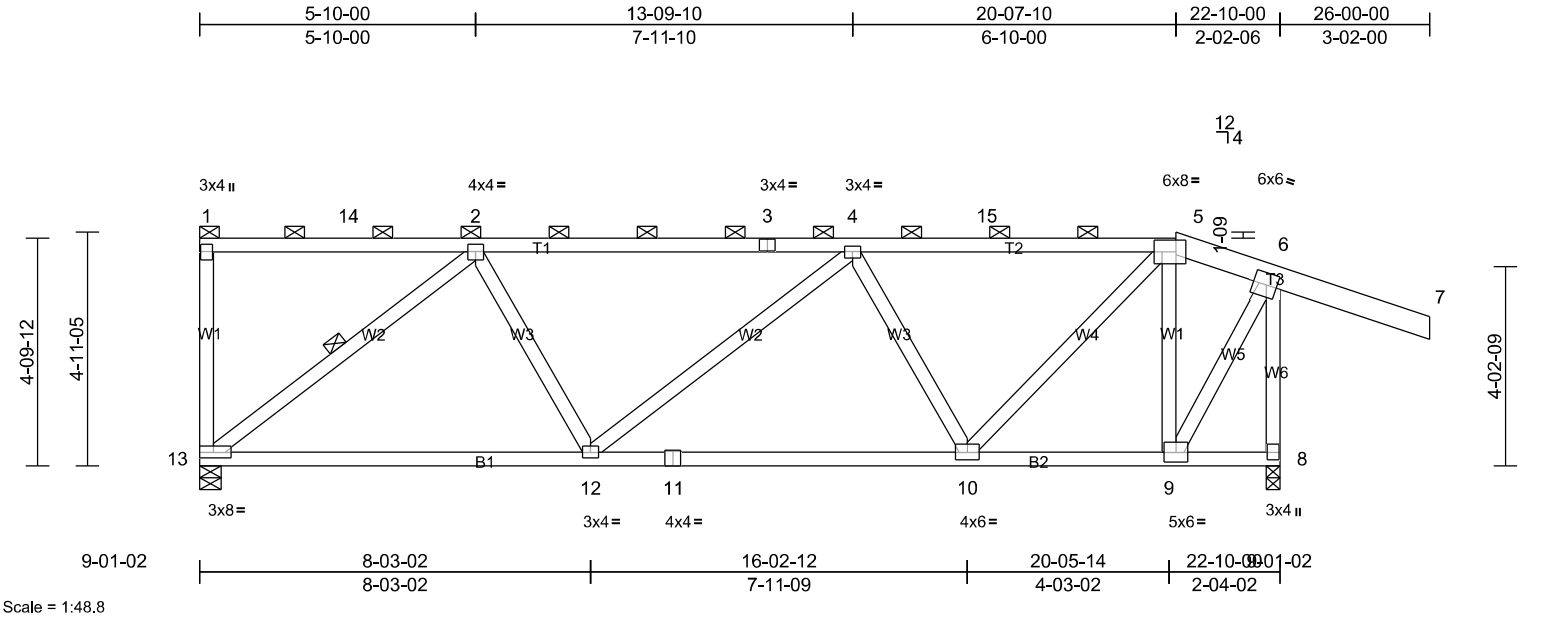
LOAD CASE(S) Standard

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	C3	Half Hip	1	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.81 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:ngiQmEmh9O?Gy1Ixb4cRO_z4jWk-vedmpcTkm0TQwx6FW0belibWYIvdfZZUngB3GAyMYhE



Scale = 1:48.8

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.11	10-12	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.22	12-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.06	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 112 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 5-7:2x6 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 1-5.

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

WEBS 1 Row at midpt 2-13

REACTIONS (size) 8=3-08, (min. 2-15), 13=5-08, (min. 3-00)
Max Horiz 13=-149 (LC 8)
Max Uplift 8=-172 (LC 9), 13=-84 (LC 8)
Max Grav 8=1864 (LC 27), 13=1894 (LC 27)

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

TOP CHORD 1-13=-322/44, 2-3=-2124/77, 3-4=-2124/77, 4-15=-1846/79, 5-15=-1846/79, 5-6=-847/100, 6-8=-1836/197

BOT CHORD 12-13=-98/1917, 11-12=-107/2380, 10-11=-107/2380, 9-10=-16/750

WEBS 2-13=-2409/142, 6-9=-18/1600, 2-12=0/438, 4-12=-331/94, 4-10=-1129/125, 5-10=-45/1570, 5-9=-1348/43

NOTES

1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 20-7-10, Exterior (2) 20-7-10 to 26-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 13 and 172 lb uplift at joint 8.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

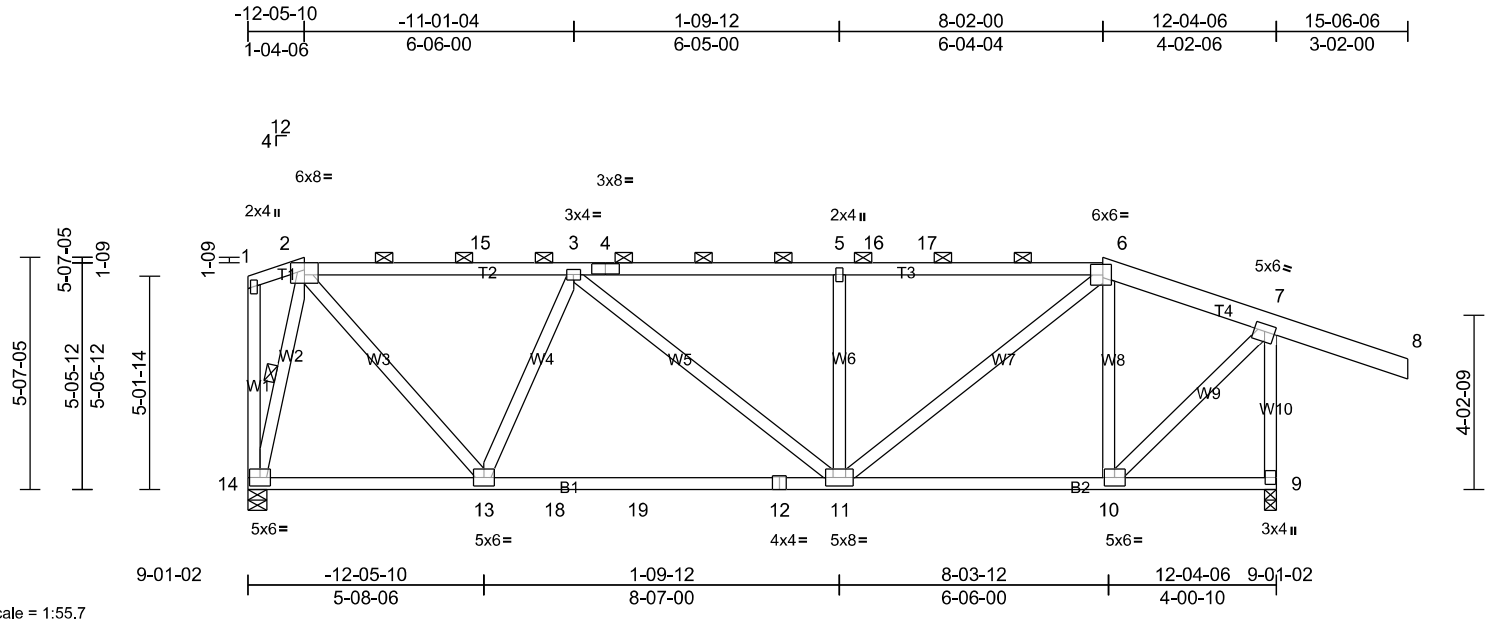
LOAD CASE(S) Standard

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	C4	Hip	1	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering — Run: 8.73 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] — Page: 1

ID:v_acC6Xq523AdseELWIR_Uz4jVk-NrB90yUMWKbHY4hR3j6trv8hv9EBO?ze0KwcodyMYhD



Scale = 1:55.7

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.15	11-13	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.28	11-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.05	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 130 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 1-2:2x4 SPF No.2, 6-8:2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-11-4 max.): 2-6.
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 2-14

REACTIONS (size) 9=3-08, (min. 2-14), 14=5-08, (min. 3-00)
Max Horiz 14=-159 (LC 8)
Max Uplift 9=-176 (LC 9), 14=-89 (LC 8)
Max Grav 9=1843 (LC 30), 14=1914 (LC 30)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-15=-1631/92, 3-15=-1636/92, 3-4=-2402/124, 4-5=-2402/124, 5-16=-2402/124, 16-17=-2402/124, 6-17=-2402/124, 6-7=-1286/115, 7-9=-1813/230
BOT CHORD 13-14=-26/473, 13-18=-92/2152, 18-19=-92/2152, 12-19=-92/2152, 11-12=-92/2152, 10-11=-33/1228
WEBS 2-13=-46/1819, 6-10=-1086/79, 7-10=-22/1691, 2-14=-2064/146, 3-11=-11/322, 5-11=-1002/123, 6-11=-58/1516, 3-13=-1351/144

NOTES

1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 12-7-6 to 18-0-15, Interior (1) 18-0-15 to 28-10-5, Exterior (2) 28-10-5 to 40-5-10 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) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 176 lb uplift at joint 9 and 89 lb uplift at joint 14.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

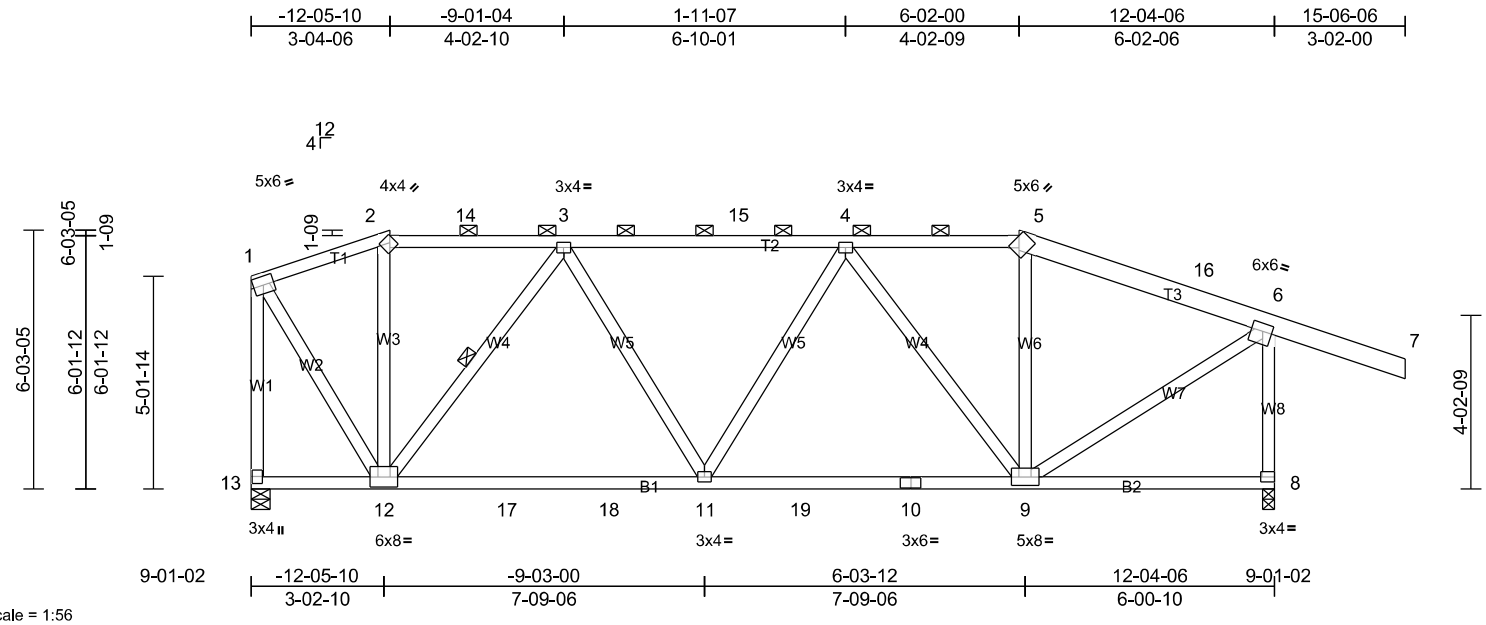
LOAD CASE(S) Standard

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	C5	Hip	1	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.81 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:nYUQpQjscMf4815kdBya0Rz4jQK-NrB90yUMWKbHY4hR3j6trv8hz9E?OxXe0KwcodyMYhD



Scale = 1:56

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.12	9-11	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.20	9-11	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 134 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 2-5:2x4 SPF 2100F 1.8E, 5-7:2x6 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-12 max.): 2-5.

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 3-12

REACTIONS (size) 8=3-08, (min. 3-00), 13=5-08, (min. 2-10)
Max Horiz 13=-153 (LC 8)
Max Uplift 8=-172 (LC 9), 13=-84 (LC 8)
Max Grav 8=1900 (LC 31), 13=1677 (LC 30)

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

TOP CHORD 1-2=-902/103, 2-14=-843/109, 3-14=-849/108, 3-15=-1891/125, 4-15=-1891/125, 4-5=-1319/126, 5-16=-1391/120, 6-16=-1442/102, 6-8=-1852/235, 1-13=-1665/86

BOT CHORD 12-17=-66/1742, 17-18=-66/1742, 11-18=-66/1742, 11-19=-73/1945, 10-19=-73/1945, 9-10=-73/1945

WEBS 6-9=-17/1574, 1-12=-60/1578, 3-11=0/328, 3-12=-1503/100, 4-9=-1049/73

NOTES

1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 12-7-6 to 20-0-10, Interior (1) 20-0-10 to 26-10-5, Exterior (2) 26-10-5 to 35-4-3, Interior (1) 35-4-3 to 37-5-10, Exterior (2) 37-5-10 to 40-5-10 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) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 13 and 172 lb uplift at joint 8.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

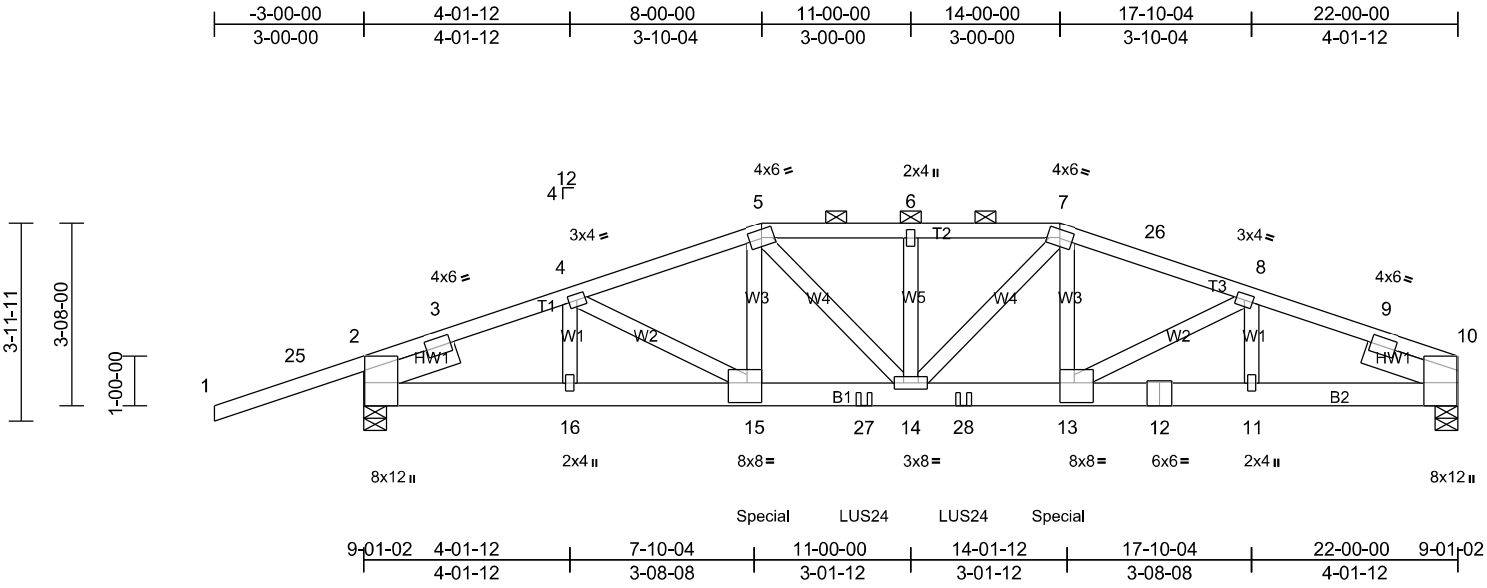
LOAD CASE(S) Standard

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	D1GD	Hip Girder	1	2	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.81 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:dbXg29EGAmPLeF9IRxiuaoz4jON-NrB90yUMWKbHY4hR3j6trv8ko9DVO75e0KwcodyMYhD



Scale = 1:46.4

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.22	14	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.30	14	>889	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.06	10	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 216 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 5-7:2x4 SPF No.2
BOT CHORD 2x6 SPF 2100F 1.8E
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 -- 1-11-12, Right 2x6 SPF No.2 -- 1-11-12

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-9-2 oc purlins, except 2-0-0 oc purlins (4-0-2 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=5-08, (min. 2-14), 10=5-08, (min. 2-09)
Max Horiz 2=66 (LC 6)
Max Uplift 2=-366 (LC 6), 10=-275 (LC 7)
Max Grav 2=4494 (LC 29), 10=3990 (LC 29)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3108/198, 3-4=-7130/488, 4-5=-8539/655, 5-6=-8413/668, 6-7=-8413/668, 7-26=-8534/679, 8-26=-8617/671, 8-9=-7423/548, 9-10=-3099/214
BOT CHORD 2-16=-446/6581, 15-16=-446/6581, 15-27=-575/7980, 14-27=-575/7980, 14-28=-571/8045, 13-28=-571/8045, 12-13=-481/6871, 11-12=-481/6871, 10-11=-481/6871
WEBS 4-16=-1259/153, 4-15=-164/1950, 5-15=-125/1759, 5-14=-74/878, 6-14=-418/70, 7-14=-63/791, 7-13=-134/1866, 8-13=-155/1883, 8-11=-1118/128

NOTES

1) 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x4 - 2 rows staggered at 9-00 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 9-00 oc.
Web connected as follows: 2x4 - 1 row at 9-00 oc, Except member 5-15 2x4 - 1 row at 2-00 oc, Except member 7-13 2x4 - 1 row at 2-00 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; 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
4) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
7) Provide adequate drainage to prevent water ponding.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 275 lb uplift at joint 10 and 366 lb uplift at joint 2.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 10-0-12 from the left end to 12-0-12 to connect truss(es) to front face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1872 lb down and 177 lb up at 8-0-0, and 1872 lb down and 177 lb up at 13-11-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

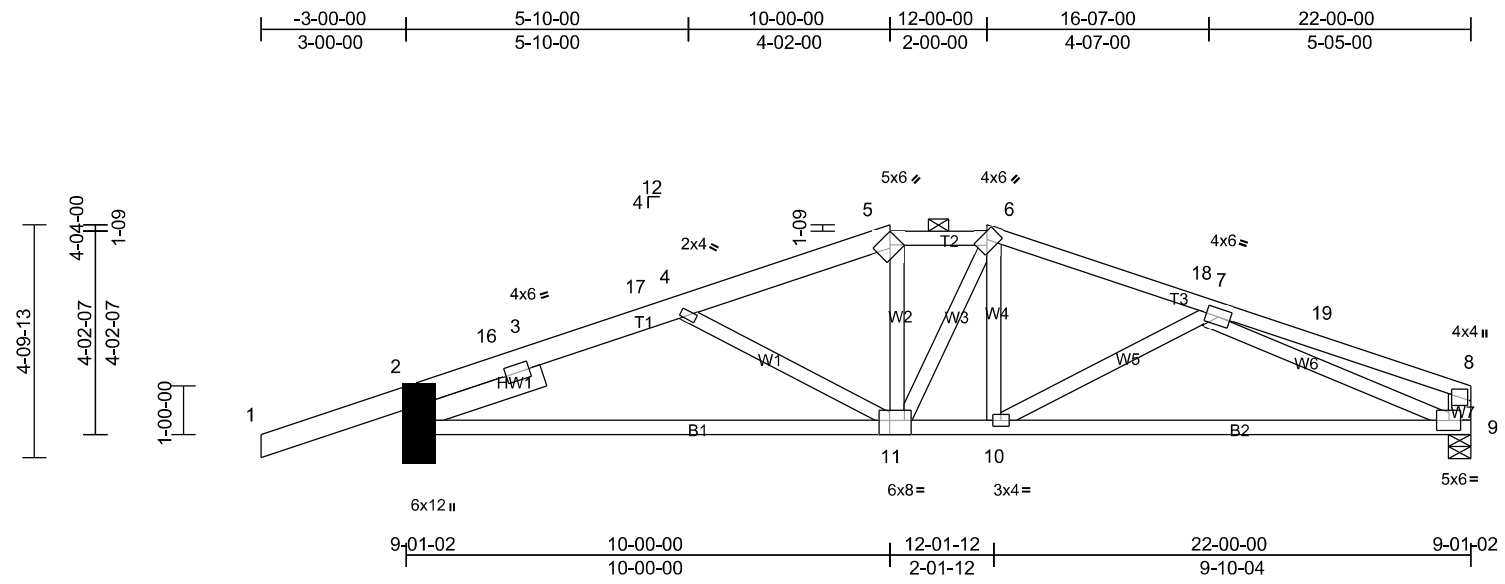
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-5=-100, 5-7=-100, 7-10=-100, 17-21=-20
Concentrated Loads (lb)
Vert: 15=-1872 (F), 13=-1872 (F), 27=-594 (F), 28=-594 (F)

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	D2	Hip	1	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.81 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:U9RUgTQIh4?F9QbFjcv1bmz4jIz-r1IXEHV_Hdj89EGedQd6N7huOZWb7R9nE_gAK3yMYhC



Scale = 1:47.7

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.22	9-10	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.45	9-10	>584	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.09	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 101 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 1-5:2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except* 9-8:2x6 SPF No.2, 9-7:2x4 SPF 2100F 1.8E
SLIDER Left 2x6 SPF No.2 -- 2-11-12

BRACING

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

REACTIONS (size) 2=5-08, (min. 3-08), 9=5-08, (min. 2-11)
Max Horiz 2=66 (LC 16)
Max Uplift 2=-134 (LC 8), 9=-42 (LC 9)
Max Grav 2=2225 (LC 31), 9=1711 (LC 31)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-16=-650/767, 3-16=-570/771, 3-17=-2854/95, 4-17=-2730/107, 4-5=-2412/108, 5-6=-2230/124, 6-18=-2451/113, 7-18=-2470/96, 7-19=-390/12, 8-19=-534/0, 8-9=-491/46
BOT CHORD 2-11=-159/2582, 10-11=-5/2221, 9-10=-105/2720
WEBS 4-11=-424/138, 5-11=0/270, 6-10=0/419, 7-10=-553/139, 7-9=-2580/166

NOTES

1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -3-0-0 to 0-0-0, Interior (1) 0-0-0 to 5-6-13, Exterior (2) 5-6-13 to 16-2-15, Interior (1) 16-2-15 to 18-9-4, Exterior (2) 18-9-4 to 21-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 2 and 42 lb uplift at joint 9.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

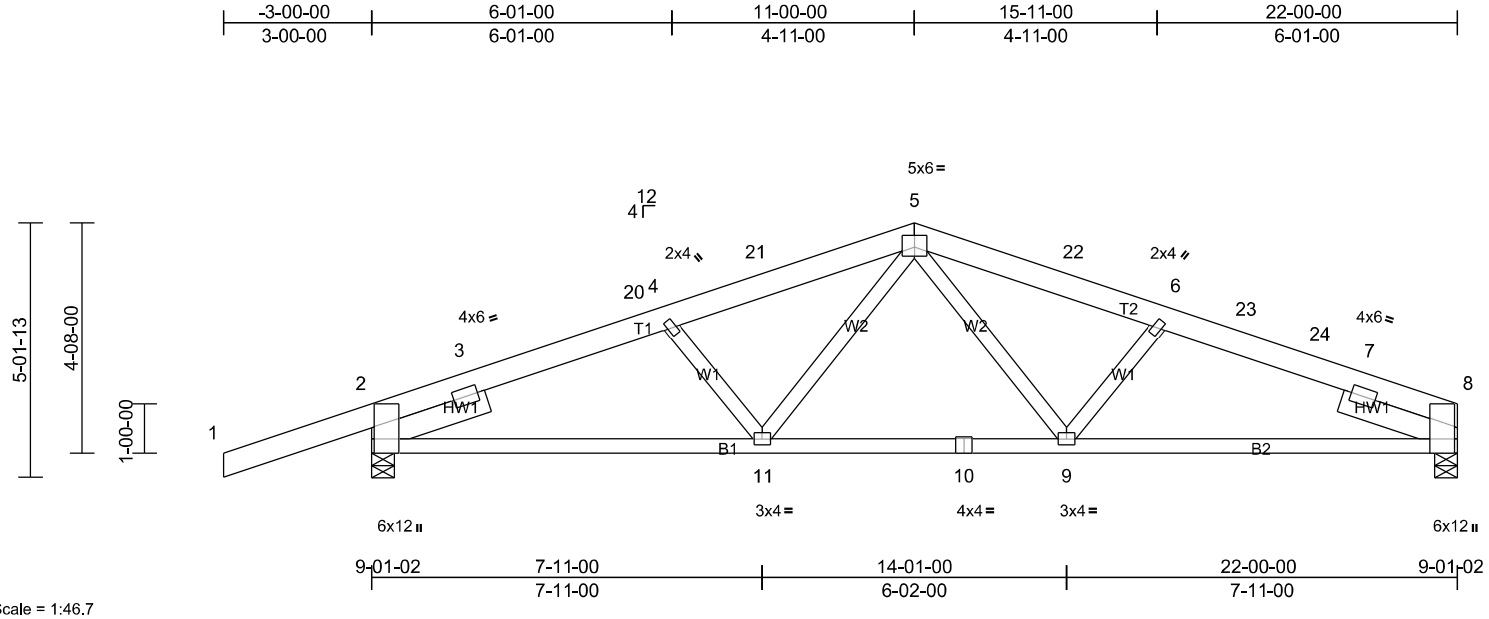
LOAD CASE(S) Standard

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	D3	Common	5	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.81 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:185W?d3_uZ05r9QC7SqhaEz4jGs-r1IXEHV_Hdj89EGedQd6N7huOZat7bInE_gAK3yMYhC



Scale = 1:46.7

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.14	9-11	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.21	9-11	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.06	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 100 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 -- 2-05-12, Right 2x6 SPF No.2 -- 2-05-12

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-10-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=5-08, (min. 2-09), 8=5-08, (min. 2-01)
Max Horiz 2=75 (LC 8)
Max Uplift 2=-129 (LC 8), 8=-38 (LC 9)
Max Grav 2=1640 (LC 1), 8=1300 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-421/907, 3-20=-2248/53, 4-20=-2135/55, 4-21=-2033/46, 5-21=-1984/57, 5-22=-2052/93, 6-22=-2103/82, 6-23=-2266/101, 23-24=-2324/91, 7-24=-2356/90, 7-8=-537/0
BOT CHORD 2-11=-96/2025, 10-11=-9/1676, 9-10=-9/1676, 8-9=-50/2150
WEBS 5-9=-17/610, 6-9=-474/117, 5-11=-4/477, 4-11=-350/109

NOTES

1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -3-0-0 to 0-0-0, Interior (1) 0-0-0 to 8-0-0, Exterior (2) 8-0-0 to 14-0-0, Interior (1) 14-0-0 to 19-0-0, Exterior (2) 19-0-0 to 22-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 8 and 129 lb uplift at joint 2.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

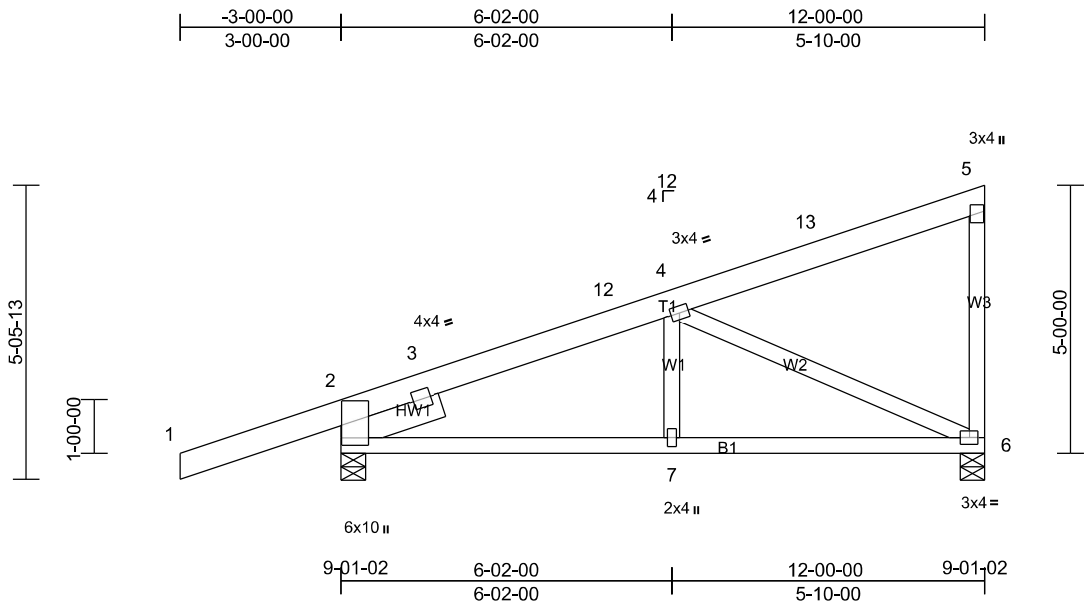
LOAD CASE(S) Standard

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	D4	Monopitch	1	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.73 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:ioSBMoEq2MEL_4KrIK4R?hz4jFL-r1IXEHV_Hdj89EGedQd6N7huSZfz7TJnE_gAK3yMYhC



Scale = 1:43

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.04	6-7	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.07	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	-0.02	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 60 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 -- 1-11-12

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=5-08, (min. 1-12), 6=5-08, (min. 1-08)
Max Horiz 2=160 (LC 11)
Max Uplift 2=-120 (LC 8), 6=-45 (LC 12)
Max Grav 2=1117 (LC 19), 6=843 (LC 19)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-266/956, 3-12=-1080/21, 4-12=-944/31, 5-6=-349/55
BOT CHORD 2-7=-275/947, 6-7=-38/947
WEBS 4-6=-1020/78

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -3-0-0 to 0-0-0, Interior (1) 0-0-0 to 8-10-4, Exterior (2) 8-10-4 to 11-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 120 lb uplift at joint 2 and 45 lb uplift at joint 6.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

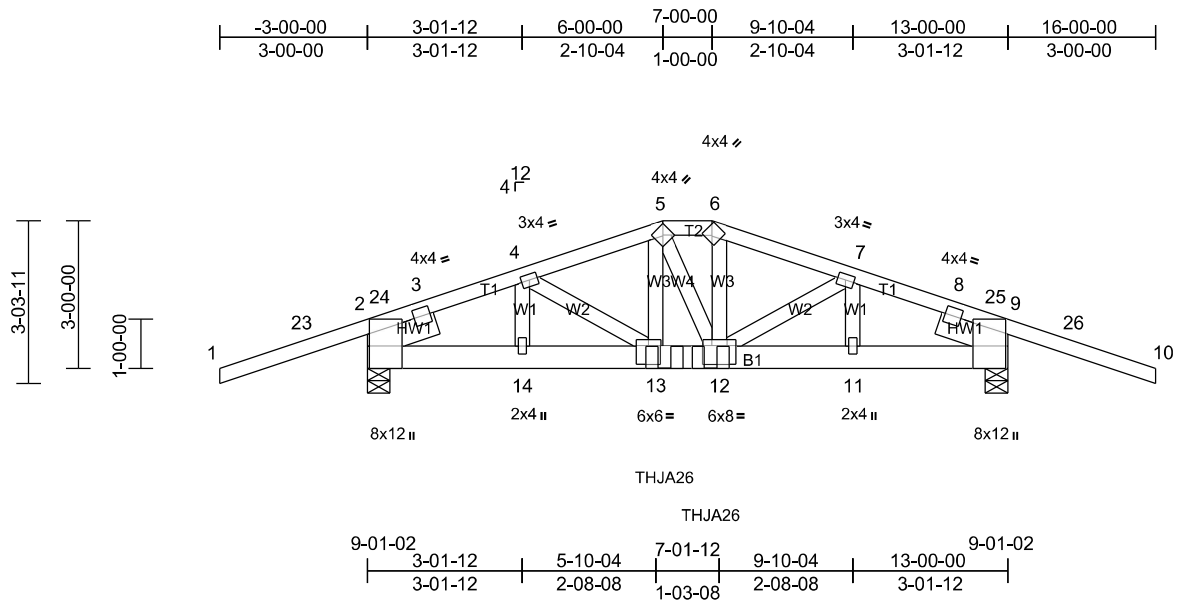
LOAD CASE(S) Standard

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	E1GD	Hip Girder	2	2	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.73 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:TQ2vJn9V9ioY5l8SIIRF4jz4jE9-r1IXEHV_Hdj89EGedQd6N7htvZbM7cNnE_gAK3yMYhC



Scale = 1:46.8

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.06	13	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.08	13	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.02	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 138 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 -- 1-05-12, Right 2x6 SPF No.2 -- 1-05-12

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

REACTIONS (size) 2=5-08, (min. 2-00), 9=5-08, (min. 2-00)
Max Horiz 2=-43 (LC 45)
Max Uplift 2=-224 (LC 6), 9=-224 (LC 7)
Max Grav 2=2543 (LC 29), 9=2543 (LC 29)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-24=-1364/292, 2-24=-1355/296, 2-3=-1014/563, 3-4=-2897/183, 4-5=-3604/269, 5-6=-3364/264, 6-7=-3632/270, 7-8=-2890/182, 8-9=-1012/563, 9-25=-1351/297, 9-25=-1361/292
BOT CHORD 2-14=-306/2633, 13-14=-157/2633, 12-13=-204/3338, 11-12=-134/2626, 9-11=-134/2626
WEBS 4-14=-789/107, 4-13=-91/888, 5-13=-64/824, 6-12=-70/888, 7-12=-93/928, 7-11=-818/108

NOTES
1) 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 9-00 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 9-00 oc.
Web connected as follows: 2x4 - 1 row at 9-00 oc,
Except member 5-13 2x4 - 2 rows staggered at 5-00 oc,
Except member 6-12 2x4 - 2 rows staggered at 5-00 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; 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
4) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
7) Provide adequate drainage to prevent water ponding.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 224 lb uplift at joint 2 and 224 lb uplift at joint 9.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Right Hand Hip) or equivalent at 6-0-6 from the left end to connect truss(es) to back face of bottom chord.
14) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left Hand Hip) or equivalent at 6-11-10 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.

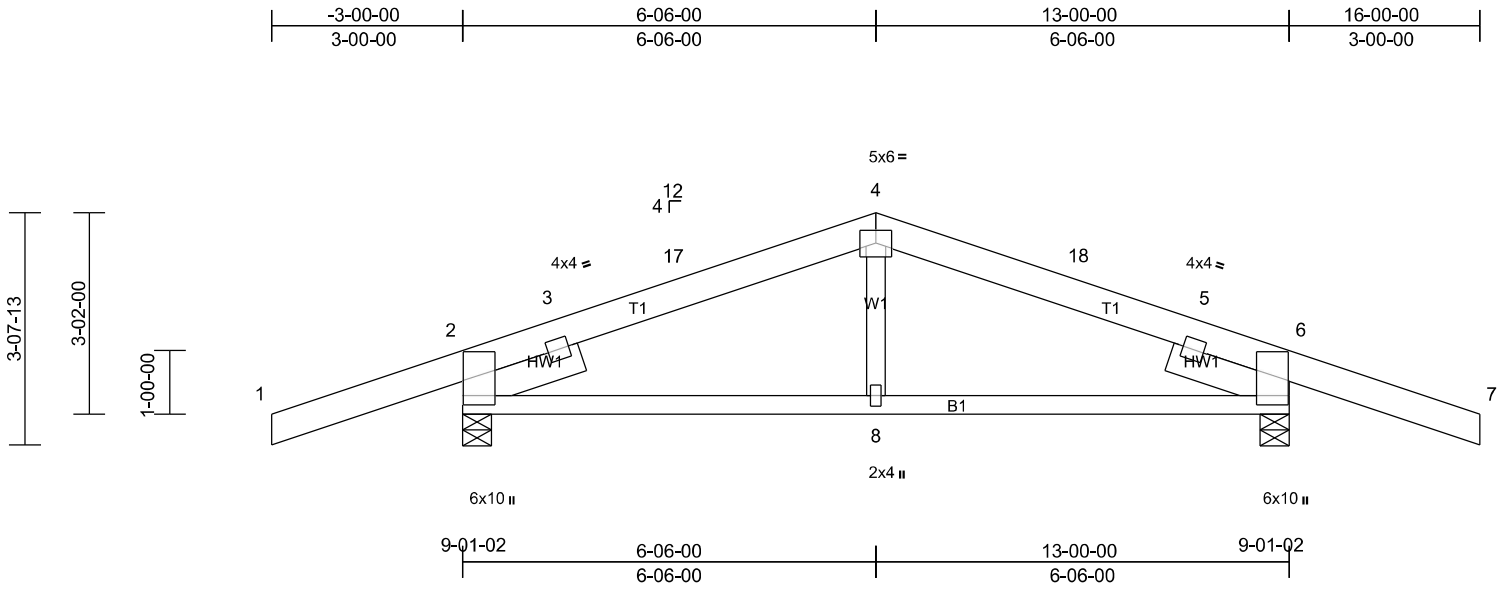
LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-5=-100, 5-6=-100, 6-10=-100, 15-19=-20
Concentrated Loads (lb)
Vert: 13=-1042, 12=-1042

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	E2	Common	6	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.73 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:ThaLtbM99xy8eMxjFMEFGIz4jDu-KDIvRdWc2xr?nOrqB88LwKD3Cy0Is3YwTePjsVyMYhB



Scale = 1:36.3

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	0.03	8-11	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.05	8-11	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.02	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 61 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 -- 1-11-12, Right 2x6 SPF No.2 -- 1-11-12

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=5-08, (min. 1-11), 6=5-08, (min. 1-11)
Max Horiz 2=-45 (LC 9)
Max Uplift 2=-115 (LC 8), 6=-115 (LC 9)
Max Grav 2=1095 (LC 19), 6=1095 (LC 20)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-268/924, 3-17=-917/0, 4-17=-827/25, 4-18=-827/25, 5-18=-917/0, 5-6=-268/924
BOT CHORD 2-8=-350/784, 6-8=-35/784

NOTES

1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -3-0-0 to 0-0-0, Interior (1) 0-0-0 to 3-6-0, Exterior (2) 3-6-0 to 9-6-0, Interior (1) 9-6-0 to 13-0-0, Exterior (2) 13-0-0 to 16-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 115 lb uplift at joint 2 and 115 lb uplift at joint 6.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

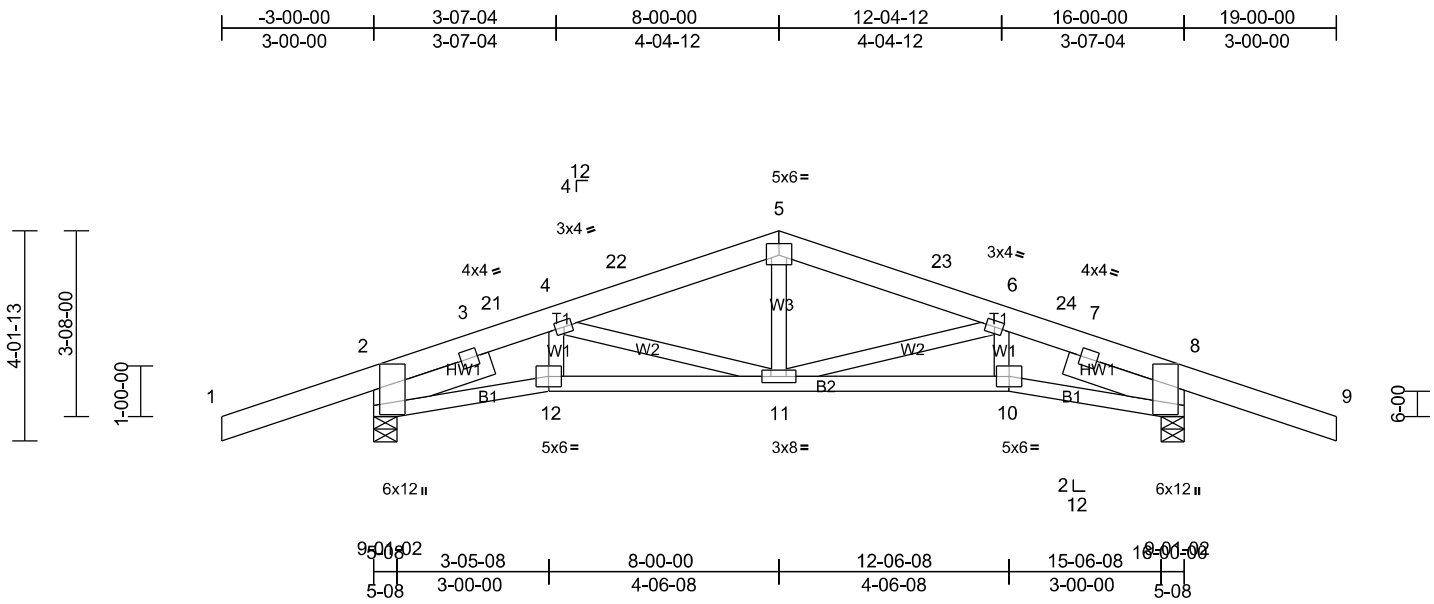
LOAD CASE(S) Standard

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	F1	Roof Special	4	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.73 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:IO?TGHrFkD_TRW?Pbmydukz4jDG-KDIvRdWc2xr?nOrqB88LwKD3Cyy4s1_wTePjsVyMYhB



Scale = 1:45.5

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.07	11-12	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.12	11-12	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.06	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 84 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 -- 2-05-12, Right 2x6 SPF No.2 -- 2-05-12

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 2=5-08, (min. 1-15), 8=5-08, (min. 1-15)
Max Horiz 2=50 (LC 8)
Max Uplift 2=-119 (LC 8), 8=-119 (LC 9)
Max Grav 2=1268 (LC 19), 8=1268 (LC 20)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-296/819, 3-21=-1794/14, 4-21=-1776/20, 4-22=-1408/11, 5-22=-1378/23, 5-23=-1378/23, 6-23=-1408/11, 6-24=-1776/1, 7-24=-1794/0, 7-8=-212/819
BOT CHORD 2-12=-251/1600, 11-12=-17/1561, 10-11=-9/1561, 8-10=-17/1600
WEBS 4-11=-409/223, 5-11=-13/302, 6-11=-409/223

NOTES

1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -3-0-0 to 0-0-0, Interior (1) 0-0-0 to 5-0-0, Exterior (2) 5-0-0 to 11-0-0, Interior (1) 11-0-0 to 16-0-0, Exterior (2) 16-0-0 to 19-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
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) Bearing at joint(s) 8, 2 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 119 lb uplift at joint 8 and 119 lb uplift at joint 2.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

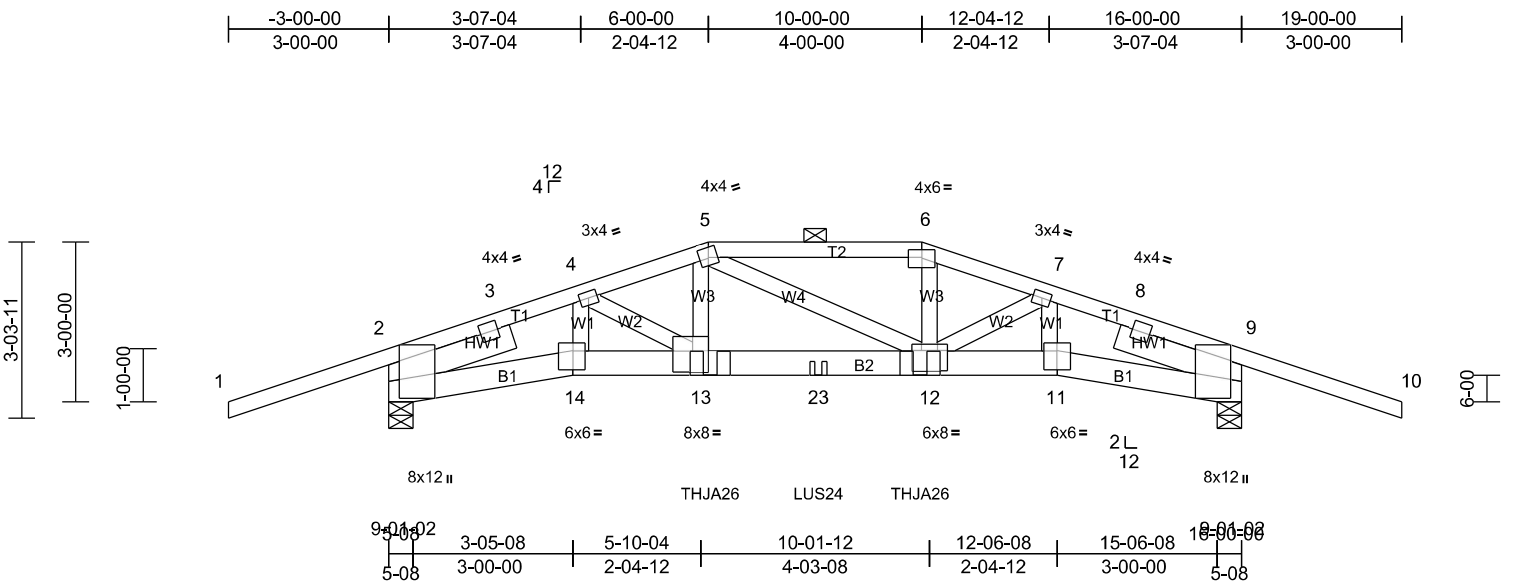
LOAD CASE(S) Standard

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	F1GD	Hip Girder	1	**2**	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering — Run: 8.73 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] — Page: 1

ID:4pATwiNwqF_SA1DpXxkPYWz4jBH-KDIvRdWc2xr?nOrqB88LwKD0dywCs1JwTePjsVyMYhB



Scale = 1:43.3

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.12	12-13	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.17	12-13	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.13	Horz(CT)	0.06	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 161 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 -- 2-05-12, Right 2x6 SPF No.2 -- 2-05-12

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-4-12 oc purlins, except 2-0-0 oc purlins (5-9-13 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=5-08, (min. 1-15), 9=5-08, (min. 1-15)
Max Horiz 2=-43 (LC 45)
Max Uplift 2=-231 (LC 6), 9=-231 (LC 7)
Max Grav 2=2540 (LC 29), 9=2542 (LC 29)

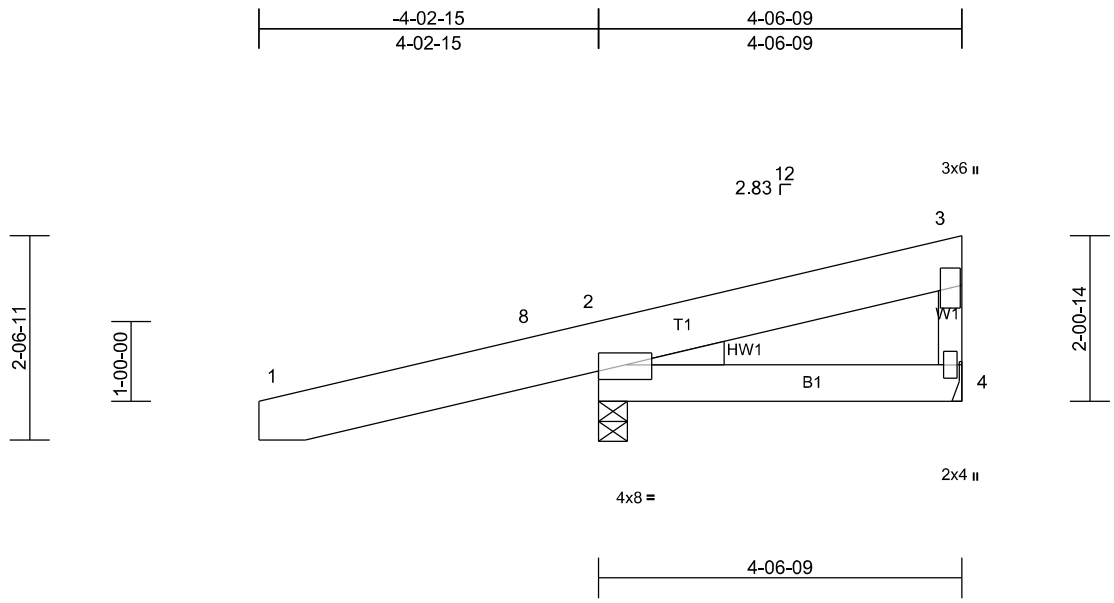
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1435/442, 3-4=-4161/270, 4-5=-4481/344, 5-6=-4182/321, 6-7=-4472/332, 7-8=-4170/270, 8-9=-1229/441
BOT CHORD 2-14=-217/3753, 13-14=-226/3809, 13-23=-276/4187, 12-23=-276/4187, 11-12=-214/3815, 9-11=-210/3761
WEBS 4-13=-66/702, 5-13=-64/1027, 6-12=-57/1023, 7-12=-63/683

NOTES
1) 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 9-00 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 9-00 oc.
Web connected as follows: 2x4 - 1 row at 9-00 oc,
Except member 5-13 2x4 - 2 rows staggered at 5-00 oc,
Except member 6-12 2x4 - 2 rows staggered at 5-00 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; 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
4) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
7) Provide adequate drainage to prevent water ponding.
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) Bearing at joint(s) 9, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 9 and 231 lb uplift at joint 2.
12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Right Hand Hip) or equivalent at 6-0-6 from the left end to connect truss(es) to back face of bottom chord.
15) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 8-0-12 from the left end to connect truss(es) to back face of bottom chord.
16) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left Hand Hip) or equivalent at 9-11-10 from the left end to connect truss(es) to back face of bottom chord.
17) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-5=-100, 5-6=-100, 6-10=-100, 14-19=-20, 11-14=-20, 11-15=-20
Concentrated Loads (lb)
Vert: 13=-793, 12=-793, 23=-301

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	G1CJ	Jack-Closed	1	1	Job Reference (optional)



Scale = 1:28.8

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	0.02	4-7	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.36	Vert(CT)	0.02	4-7	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.01	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 39 lb	FT = 20%

LUMBER
TOP CHORD 2x8 SP DSS
BOT CHORD 2x6 SPF No.2
WEBS 2x4 SPF No.2
WEDGE Left: 2x4 SPF No.2

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

REACTIONS (size) 2=4-06, (min. 1-14), 4= Mechanical, (min. 1-08)
Max Horiz 2=56 (LC 11)
Max Uplift 2=-185 (LC 8), 4=-268 (LC 18)
Max Grav 2=1195 (LC 18), 4=43 (LC 5)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-234/555

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -3-11-7 to 0-0-0, Exterior (2) 0-0-0 to 4-4-13 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) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 268 lb uplift at joint 4 and 185 lb uplift at joint 2.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 120 lb down and 21 lb up at -3-11-7 on top chord. The design/selection of such connection device(s) is the responsibility of others.

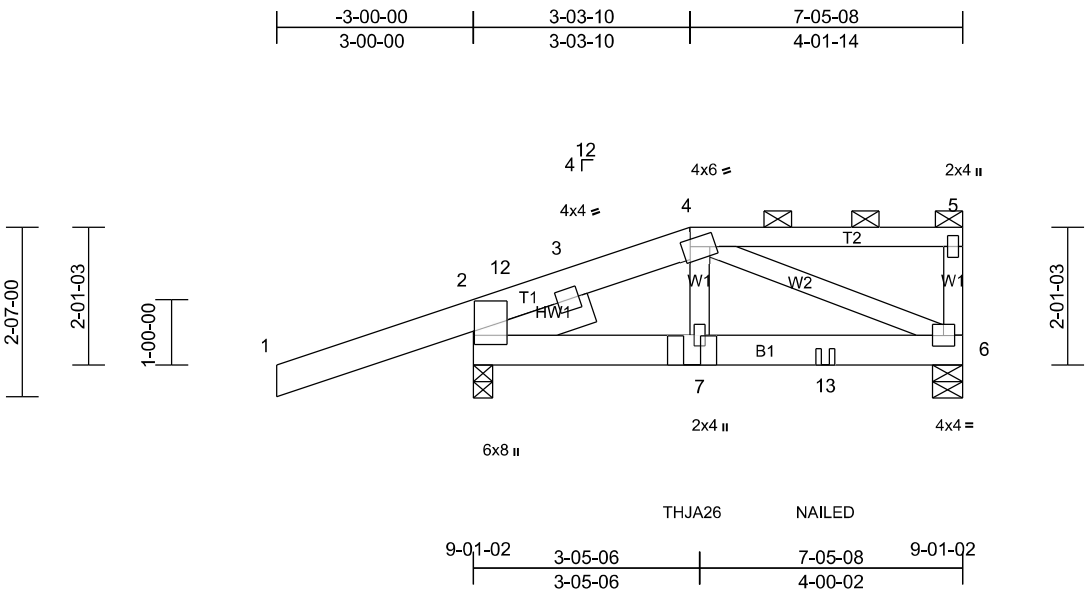
LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-100, 4-5=-20
Concentrated Loads (lb)
Vert: 1=-120

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	G1GD	Half Hip Girder	1	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.73 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:O5?4qtjC91hyU2yQFMI2XQz4kua-oQsHezWEpF_sPYQ0IrfaTYmCFMO1bUE4il9GPyyMYhA



Scale = 1:35.2

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	0.01	7-10	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.01	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 41 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF No.2 *Except* 4-5:2x4 SPF No.2
BOT CHORD 2x6 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 -- 1-10-02

BRACING

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

REACTIONS (size) 2=3-08, (min. 1-11), 6=5-08, (min. 1-08)
Max Horiz 2=67 (LC 9)
Max Uplift 2=-145 (LC 6), 6=-46 (LC 7)
Max Grav 2=1069 (LC 26), 6=548 (LC 25)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-12=-343/270, 2-12=-336/276, 2-3=-236/527, 3-4=-488/94, 5-6=-301/37
BOT CHORD 2-7=-420/432, 7-13=-117/435, 6-13=-117/435
WEBS 4-6=-474/127

NOTES

1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; 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) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 145 lb uplift at joint 2 and 46 lb uplift at joint 6.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Use Simpson Strong-Tie THJA26 (THJA26 on 1 ply, Right Hand Hip) or equivalent at 3-4-0 from the left end to connect truss(es) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

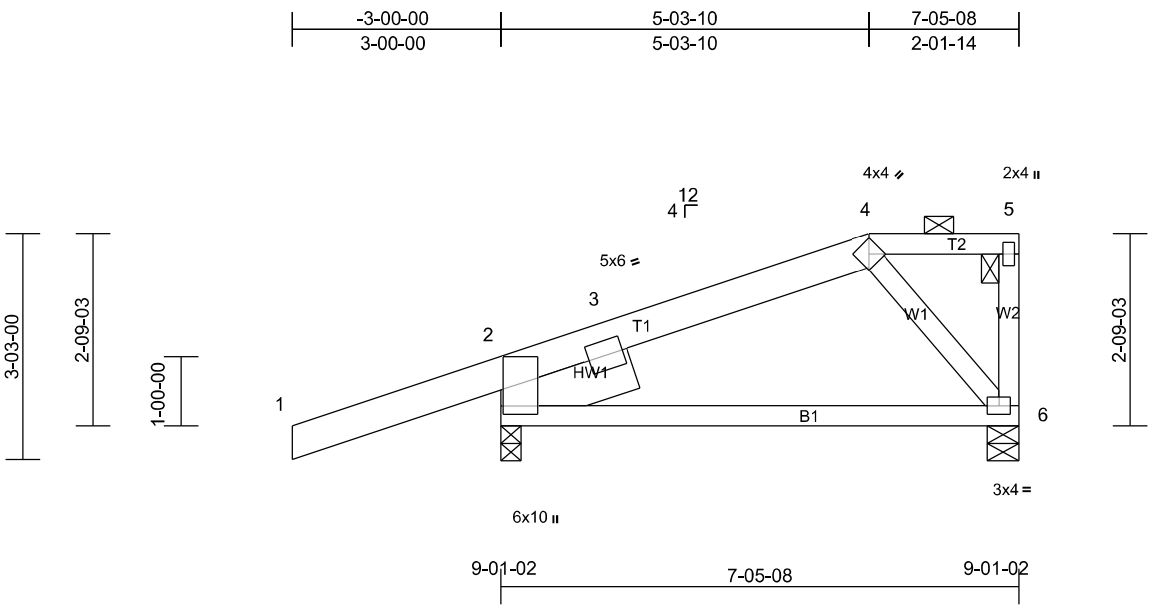
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-100, 4-5=-100, 6-8=-20
Concentrated Loads (lb)
Vert: 7=-28, 13=-26

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	G2	Half Hip	1	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.73 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:WspQ77405FTi4fFB0fH5Ikz4ku6-oQsHezWEpF_sPYQ0IrfaTYmEyMNwbVU4iI9GPyyMYhA



Scale = 1:33.2

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	0.06	6-9	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.10	6-9	>844	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	-0.02	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 39 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF No.2 *Except* 4-5:2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x8 SP DSS -- 1-11-12

BRACING

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

REACTIONS (size) 2=3-08, (min. 1-12), 6=5-08, (min. 1-08)
Max Horiz 2=91 (LC 11)
Max Uplift 2=-119 (LC 8), 6=-15 (LC 9)
Max Grav 2=1134 (LC 28), 6=391 (LC 27)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-352/823, 3-4=-313/63
BOT CHORD 2-6=-327/203
WEBS 4-6=-322/57

NOTES

1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -3-0-0 to 0-0-0, Interior (1) 0-0-0 to 1-0-11, Exterior (2) 1-0-11 to 7-3-12 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
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 2 and 15 lb uplift at joint 6.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

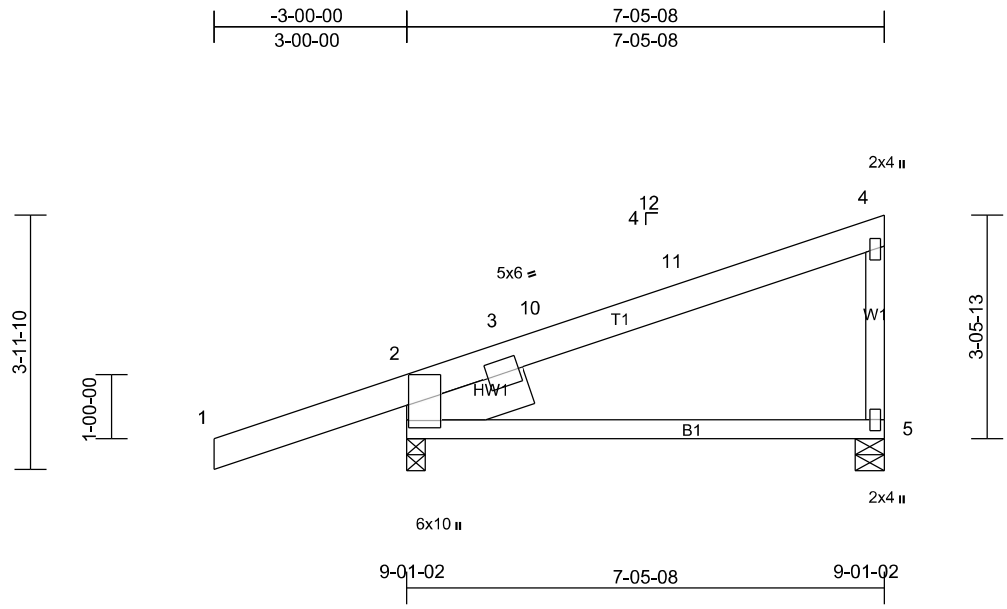
LOAD CASE(S) Standard

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	G3	Monopitch	2	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.73 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:2DJu2PUjJOd0XkHXS5Nqbiz4ktb-GcQfsJXsaY6j0i?CIZAp?IJPimjhKzpDxyuqxOyMYh9



Scale = 1:36

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	0.11	5-8	>791	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.17	5-8	>519	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 38 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x8 SP DSS -- 1-11-12

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), 5=5-08, (min. 1-08)
Max Horiz 2=110 (LC 11)
Max Uplift 2=-116 (LC 8), 5=-24 (LC 12)
Max Grav 2=850 (LC 19), 5=468 (LC 19)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-343/805, 4-5=-394/53
BOT CHORD 2-5=-343/50

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -3-0-0 to 0-0-0, Interior (1) 0-0-0 to 4-3-12, Exterior (2) 4-3-12 to 7-3-12 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
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 5 and 116 lb uplift at joint 2.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

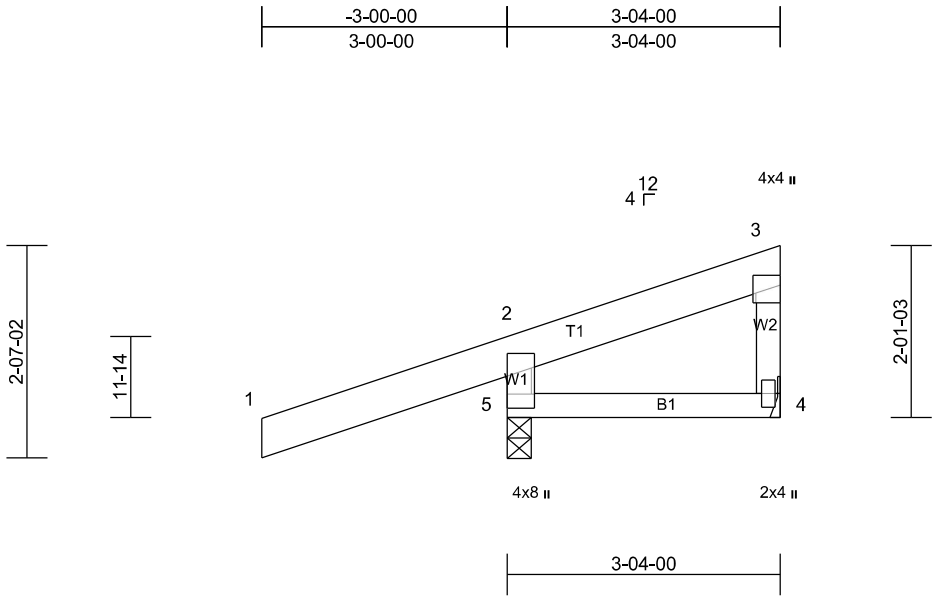
LOAD CASE(S) Standard

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	G4	Jack-Closed	2	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.73 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:r2EKDSGsyf6mdrxPsEbSpcz4kxl-GcQfsJXsaY6j0i?CIZAp?IJOSml2KzpDxyuqxOyMYh9



Scale = 1:28.2

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.01	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 18 lb	FT = 20%

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

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

REACTIONS (size) 4= Mechanical, (min. 1-08), 5=3-08, (min. 1-08)
Max Horiz 5=78 (LC 11)
Max Uplift 4=-232 (LC 18), 5=-139 (LC 8)
Max Grav 4=59 (LC 5), 5=920 (LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-854/216

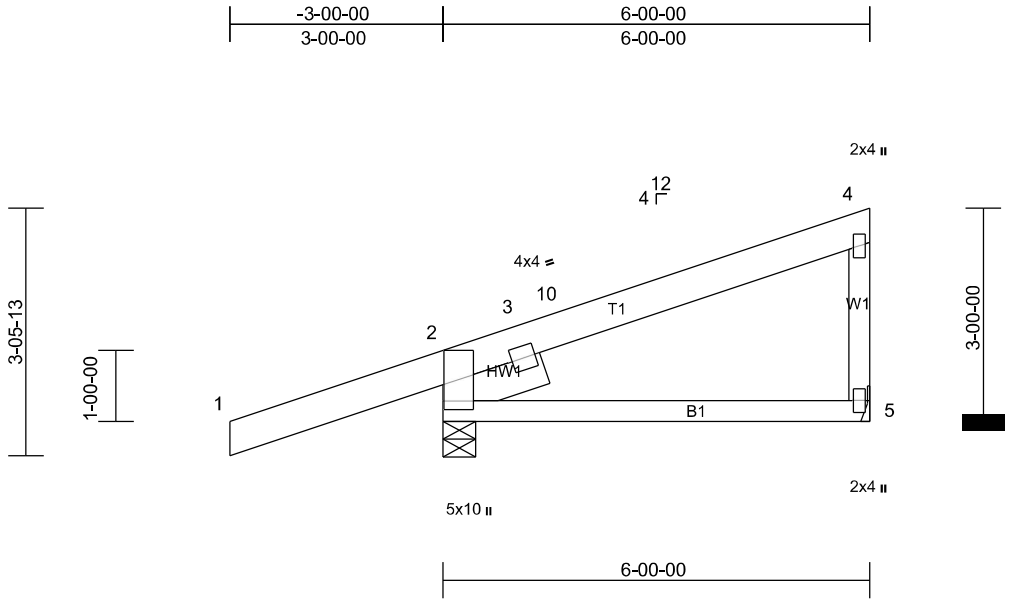
NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -3-0-0 to 0-1-12, Interior (1) 0-1-12 to 3-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
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 User Defined crushing capacity of 425 psi.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 139 lb uplift at joint 5 and 232 lb uplift at joint 4.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	H1	Jack-Closed	2	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.73 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:_1QGI7aI7m7cxp3j21vvNVz4ILA-GcQfsJXsaY6j0i?CIZAp?IJPimjrKzpDxyuqxOyMYh9



Scale = 1:32.4

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	0.07	5-8	>962	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.06	5-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 29 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 -- 1-06-00

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=5-08, (min. 1-08), 5= Mechanical, (min. 1-08)
Max Horiz 2=94 (LC 11)
Max Uplift 2=-117 (LC 8), 5=-21 (LC 18)
Max Grav 2=795 (LC 18), 5=342 (LC 19)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-230/798, 4-5=-290/55
BOT CHORD 2-5=-359/39

NOTES

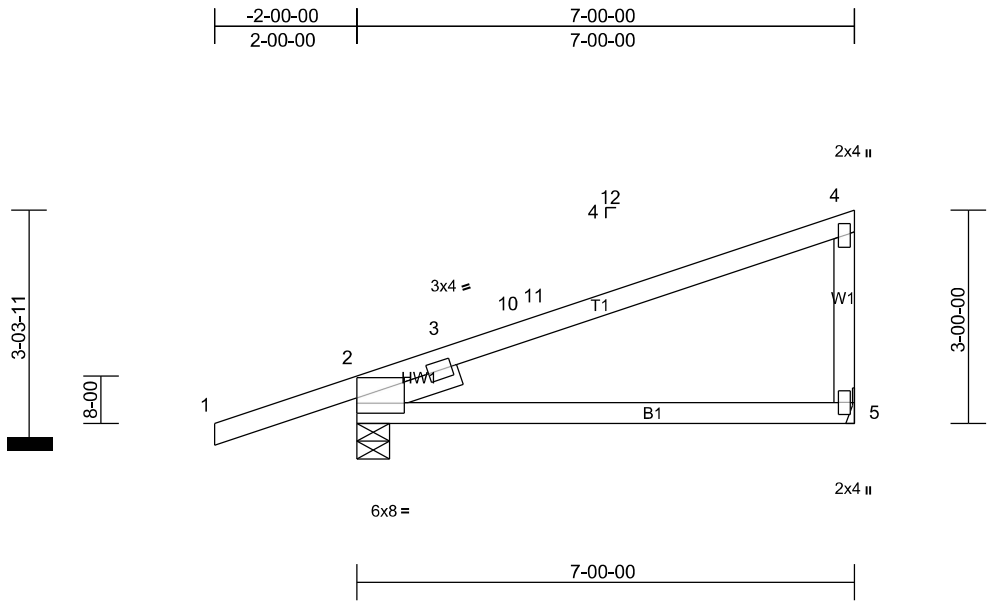
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -3-0-0 to 0-0-0, Interior (1) 0-0-0 to 1-7-5, Exterior (2) 1-7-5 to 5-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 5 and 117 lb uplift at joint 2.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	H1A	Jack-Closed	2	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.73 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:irj1qE8DkONJveQW6dj95iz4IJ9-GcQfsJXsaY6j0i?CIZAp?IJP1me9KzpDxyuqxOyMYh9



Scale = 1:32.4

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.17	5-8	>470	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.28	5-8	>293	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.05	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 23 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 -- 1-06-00

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=5-08, (min. 1-08), 5= Mechanical, (min. 1-08)
Max Horiz 2=94 (LC 11)
Max Uplift 2=-79 (LC 8), 5=-25 (LC 12)
Max Grav 2=677 (LC 19), 5=455 (LC 19)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-320/430, 4-5=-354/73
BOT CHORD 2-5=-322/259

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -2-0-0 to 0-8-10, Interior (1) 0-8-10 to 2-7-5, Exterior (2) 2-7-5 to 6-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 5 and 79 lb uplift at joint 2.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

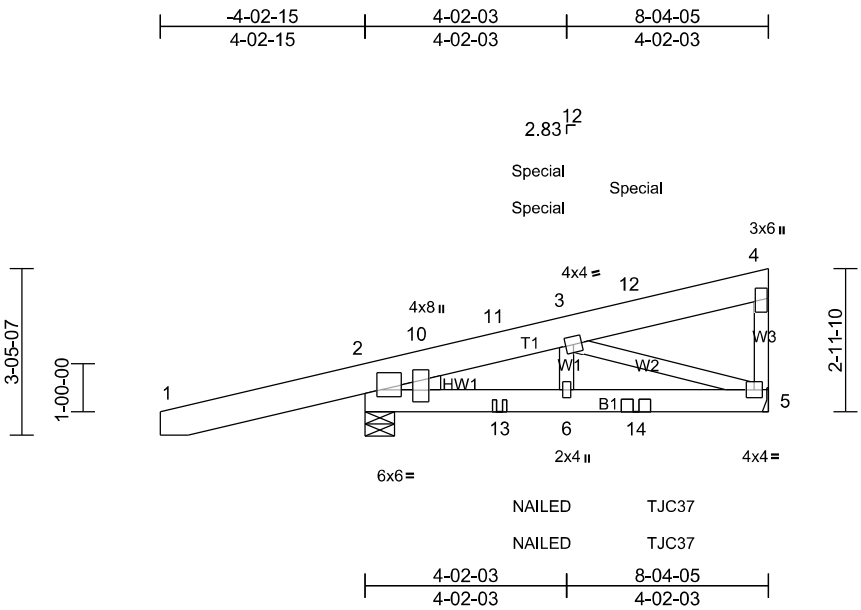
LOAD CASE(S) Standard

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	H1CJ	Diagonal Hip Girder	4	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.73 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:05KfGKfF36FR0?2jU4_iCHz4IHB-GcQfsJXsaY6j0i?CIZAp?IJUOmilKwhDxyuqxOyMYh9



Scale = 1:47.8

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.03	5-6	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.03	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.20	Horz(CT)	-0.01	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 64 lb	FT = 20%

LUMBER

TOP CHORD 2x8 SP DSS
BOT CHORD 2x6 SPF No.2
WEBS 2x4 SPF No.2
WEDGE Left: 2x4 SPF No.2

BRACING

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

REACTIONS (size) 2=7-06, (min. 1-10), 5= Mechanical, (min. 1-08)
Max Horiz 2=85 (LC 9)
Max Uplift 2=-176 (LC 6), 5=-72 (LC 16)
Max Grav 2=1044 (LC 17), 5=636 (LC 17)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-248/841, 2-10=-245/847, 2-11=-687/488, 3-11=-637/482, 4-5=-298/34
BOT CHORD 2-13=-675/604, 6-13=-518/604, 6-14=-518/604, 5-14=-518/604
WEBS 3-5=-641/550

NOTES

1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; 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) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 176 lb uplift at joint 2 and 72 lb uplift at joint 5.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Use Simpson Strong-Tie TJC37 (6 nail, 30-90) or equivalent at 5-7-7 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
11) Use Simpson Strong-Tie TJC37 (4 nail 90-150) or equivalent at 5-7-7 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.
12) Fill all nail holes where hanger is in contact with lumber.
13) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 67 lb down and 282 lb up at 2-9-8, and 67 lb down and 282 lb up at 2-9-8, and 98 lb down at 5-7-7 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

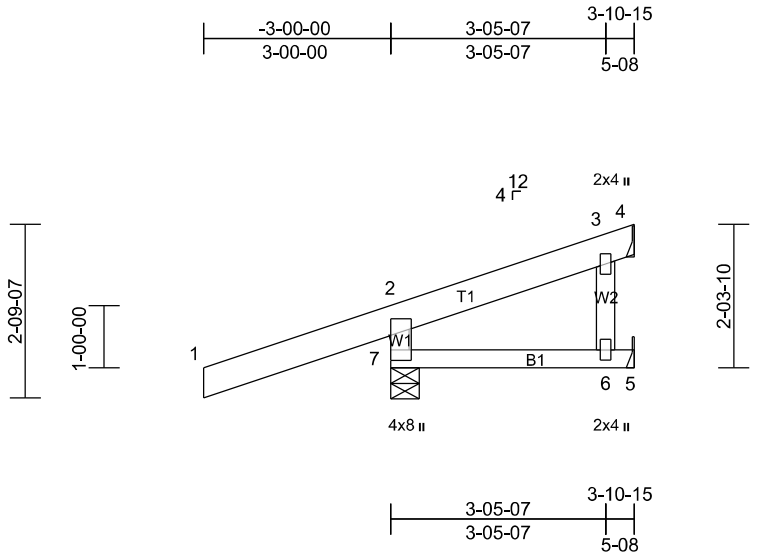
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-100, 5-7=-20
Concentrated Loads (lb)
Vert: 11=76, 12=-39, 13=80, 14=-236

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	H2	Jack-Open	10	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.81 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:enueOYaoGSwCDAAQDBNcZIz4IIb-ko_23fYULsEaesaPsGh2YzrZAA453QWN9beNTqyMYh8



Scale = 1:37

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	0.03	6-7	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.24	Vert(CT)	0.03	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.03	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 20 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 4= Mechanical, (min. 1-08), 5= Mechanical, (min. 1-08), 7=5-08, (min. 1-08)
Max Horiz 7=71 (LC 8)
Max Uplift 4=-38 (LC 18), 5=-129 (LC 18), 7=-125 (LC 8)
Max Grav 4=126 (LC 5), 5=6 (LC 19), 7=881 (LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-825/222

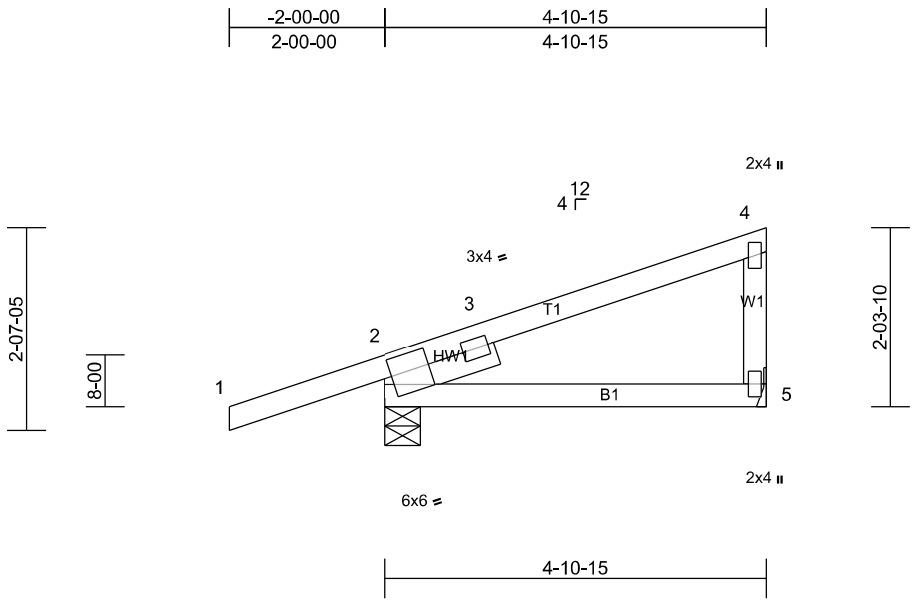
NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 7, 38 lb uplift at joint 4 and 129 lb uplift at joint 5.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	H2A	Jack-Closed	2	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.73 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:BOwXteAAUqD6Ds?19hGKarz4lHp-ko_23fYULsEaesaPsGh2YzrbxA3j3Q3N9beNTqyMYh8



Scale = 1:29.7

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	0.05	5-8	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.06	5-8	>938	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 18 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 -- 1-06-00

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=5-08, (min. 1-08), 5= Mechanical, (min. 1-08)
Max Horiz 2=71 (LC 11)
Max Uplift 2=-78 (LC 8), 5=-15 (LC 12)
Max Grav 2=553 (LC 19), 5=286 (LC 19)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-186/462
BOT CHORD 2-5=-343/67

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; 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) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 5 and 78 lb uplift at joint 2.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

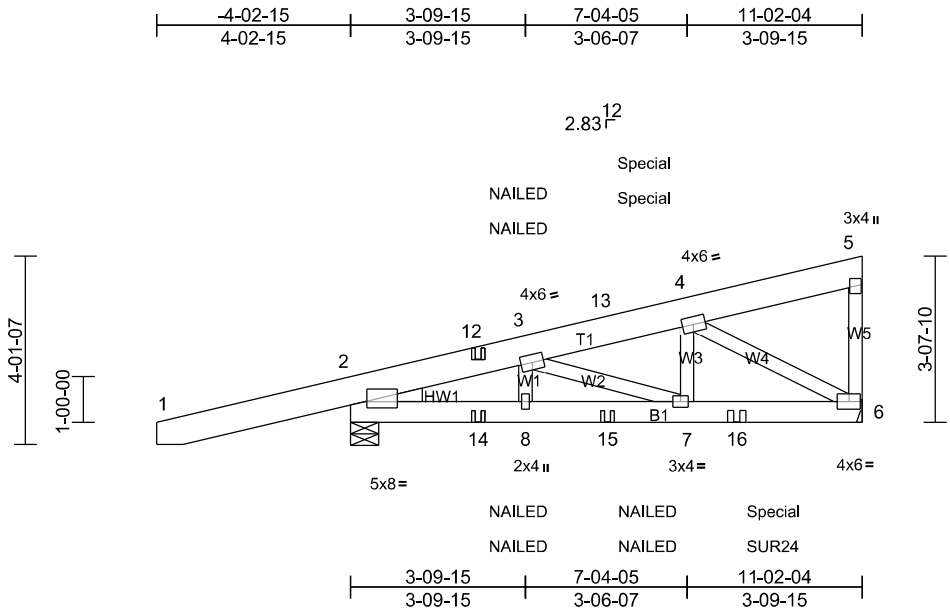
LOAD CASE(S) Standard

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	H2CJ	Diagonal Hip Girder	2	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.81 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:XEVQzYCUlKVDWdDoyLDevMz4IBK-ko_23fYULsEaesaPsGh2YzrfCAyX3I1N9beNTqyMYh8



Scale = 1:50.5

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.04	6-7	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.05	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.51	Horz(CT)	0.01	6	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 85 lb	FT = 20%

LUMBER

TOP CHORD 2x8 SP DSS
BOT CHORD 2x6 SPF No.2
WEBS 2x4 SPF No.2
WEDGE Left: 2x4 SPF No.2

BRACING

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

REACTIONS (size) 2=7-06, (min. 2-01), 6= Mechanical, (min. 1-08)
Max Horiz 2=106 (LC 9)
Max Uplift 2=-198 (LC 6), 6=-114 (LC 10)
Max Grav 2=1300 (LC 17), 6=1307 (LC 17)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-12=-1200/725, 3-12=-1141/531, 3-13=-1551/124, 4-13=-1490/144
BOT CHORD 2-14=-580/1064, 8-14=-580/1064, 8-15=-580/1064, 7-15=-580/1064, 7-16=-127/1483, 6-16=-127/1483
WEBS 3-8=-262/0, 3-7=-175/729, 4-7=-95/597, 4-6=-1691/171

NOTES

1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; 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) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 114 lb uplift at joint 6 and 198 lb uplift at joint 2.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) Use Simpson Strong-Tie SUR24 (4-SD9112 Girder, 4-SD9112 Truss, Single Ply Girder) or equivalent at 8-5-6 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) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 98 lb down at 5-7-7, and 98 lb down at 5-7-7 on top chord. The design/selection of such connection device(s) is the responsibility of others.
14) 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

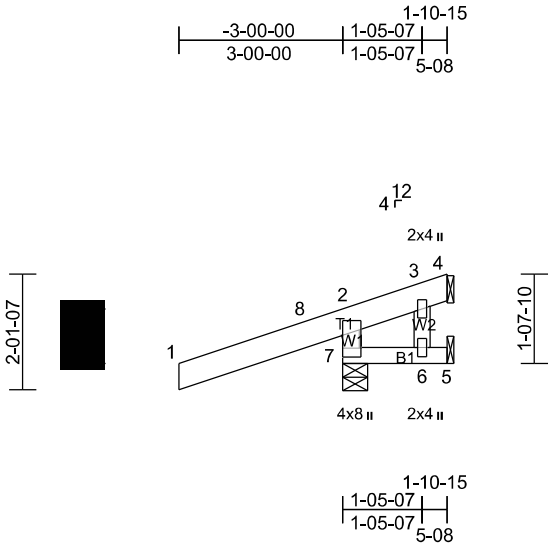
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-5=-100, 6-9=-20
Concentrated Loads (lb)
Vert: 12=76 (F=38, B=38), 13=-77 (F=-39, B=-39), 14=80 (F=40, B=40), 15=44 (F=22, B=22), 16=-762 (F=-343, B=-420)

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	H3	Jack-Open	12	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.81 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:4iDvsee?XV?jnhvLNfyE7sz4lHD-C?YQH?Z76AMRG?8bQ_DH4AOlsaQLotdWOFNx0GyMYh7



Scale = 1:42.3

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	0.01	6-7	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.17	Vert(CT)	0.01	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.02	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 13 lb	FT = 20%

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

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

REACTIONS (size) 4= Mechanical, (min. 1-08), 5= Mechanical, (min. 1-08), 7=5-08, (min. 1-12)
Max Horiz 7=49 (LC 8)
Max Uplift 4=-307 (LC 18), 5=-166 (LC 18), 7=-163 (LC 8)
Max Grav 4=34 (LC 8), 5=30 (LC 8), 7=1109 (LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-1089/256

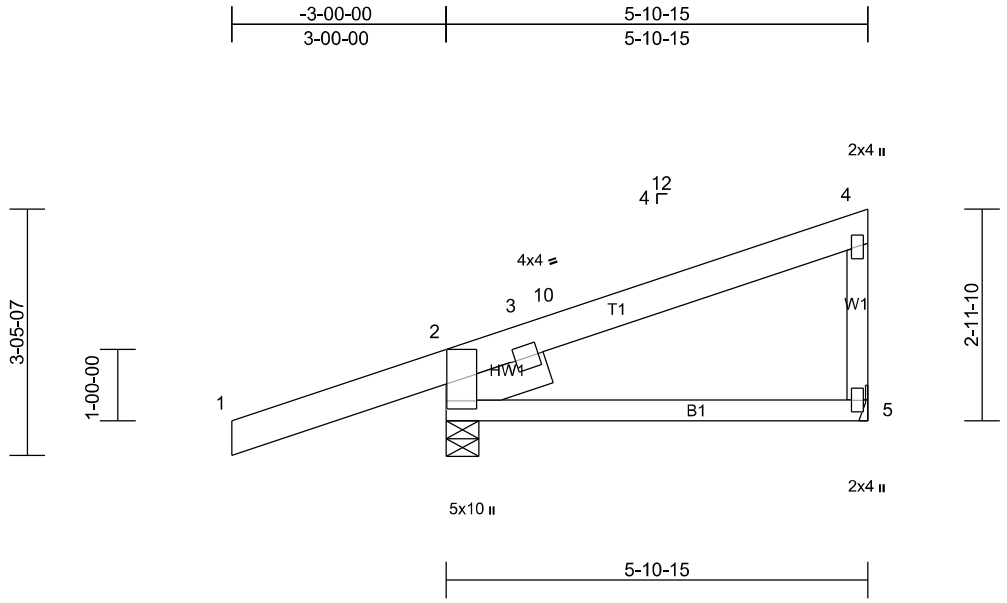
NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -3-0-0 to 0-1-12, Interior (1) 0-1-12 to 1-10-13 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
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 User Defined crushing capacity of 425 psi.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 7, 307 lb uplift at joint 4 and 166 lb uplift at joint 5.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	H4	Jack-Closed	1	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.81 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:_jnXVm9TYPCCkfoJZLh0Yjz4IDz-C?YQH?Z76AMRG?8bQ_DH4AOI8aOJotJWOFNx0GyMYh7



Scale = 1:32.3

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	0.07	5-8	>980	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.06	5-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 29 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 -- 1-06-00

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=5-08, (min. 1-08), 5= Mechanical, (min. 1-08)
Max Horiz 2=93 (LC 11)
Max Uplift 2=-117 (LC 8), 5=-25 (LC 18)
Max Grav 2=796 (LC 18), 5=334 (LC 19)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-227/800, 4-5=-283/54
BOT CHORD 2-5=-357/39

NOTES

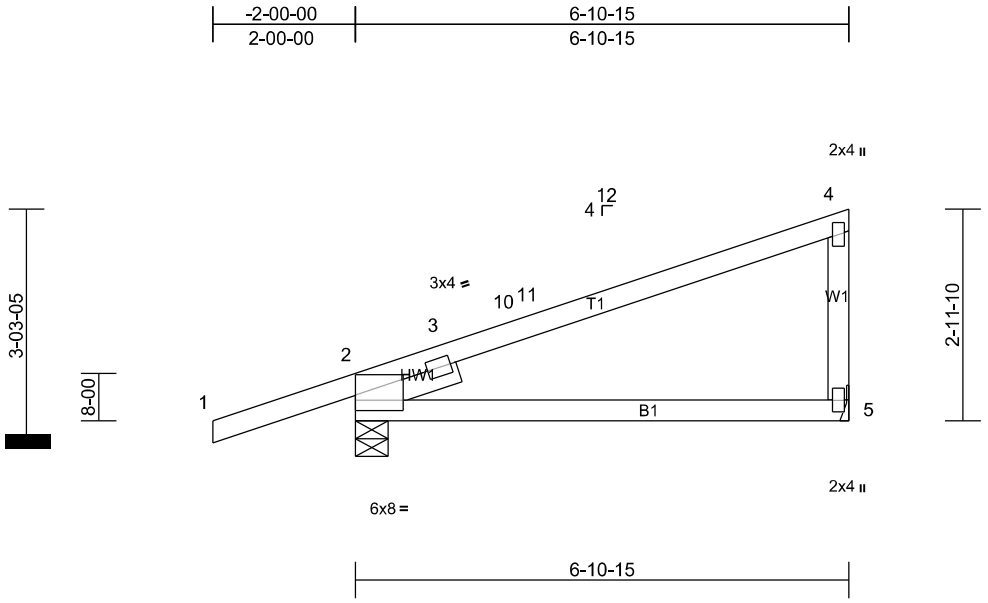
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -3-0-0 to 0-0-0, Interior (1) 0-0-0 to 1-6-4, Exterior (2) 1-6-4 to 5-9-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
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 User Defined crushing capacity of 425 psi.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 5 and 117 lb uplift at joint 2.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	H4A	Jack-Closed	2	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.81 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:HtHThbssuDWziaETyXjdvyz4ID3-C?YQH?Z76AMRG?8bQ_DH4AOmoaJuotJWOFNx0GyMYh7



Scale = 1:32.3

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.16	5-8	>492	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.27	5-8	>305	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.05	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 23 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 -- 1-06-00

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=5-08, (min. 1-08), 5= Mechanical, (min. 1-08)
Max Horiz 2=93 (LC 11)
Max Uplift 2=-79 (LC 8), 5=-25 (LC 12)
Max Grav 2=672 (LC 19), 5=448 (LC 19)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-312/432, 4-5=-348/72
BOT CHORD 2-5=-322/248

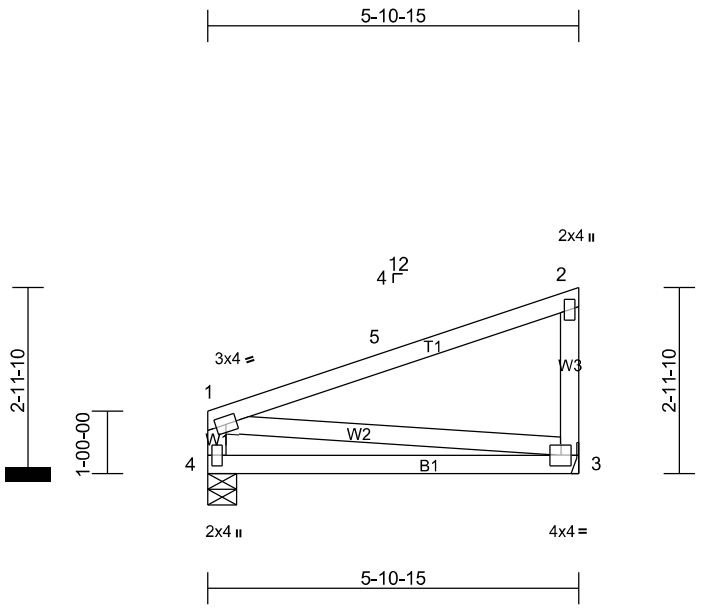
NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -2-0-0 to 0-8-10, Interior (1) 0-8-10 to 2-6-4, Exterior (2) 2-6-4 to 6-9-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
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 User Defined crushing capacity of 425 psi.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 5 and 79 lb uplift at joint 2.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	H4B	Jack-Closed	1	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.81 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:trfBBBEIbIQawL6QHXnufUz4ICa-C?YQH?Z76AMRG?8bQ_DH4AOieaNIot9WOFNx0GyMYh7



Scale = 1:36.8

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.06	3-4	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.12	3-4	>564	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 23 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, (min. 1-08), 4=5-08, (min. 1-08)
Max Horiz 4=83 (LC 9)
Max Uplift 3=-25 (LC 12), 4=-11 (LC 8)
Max Grav 3=371 (LC 18), 4=349 (LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-293/84, 2-3=-315/92

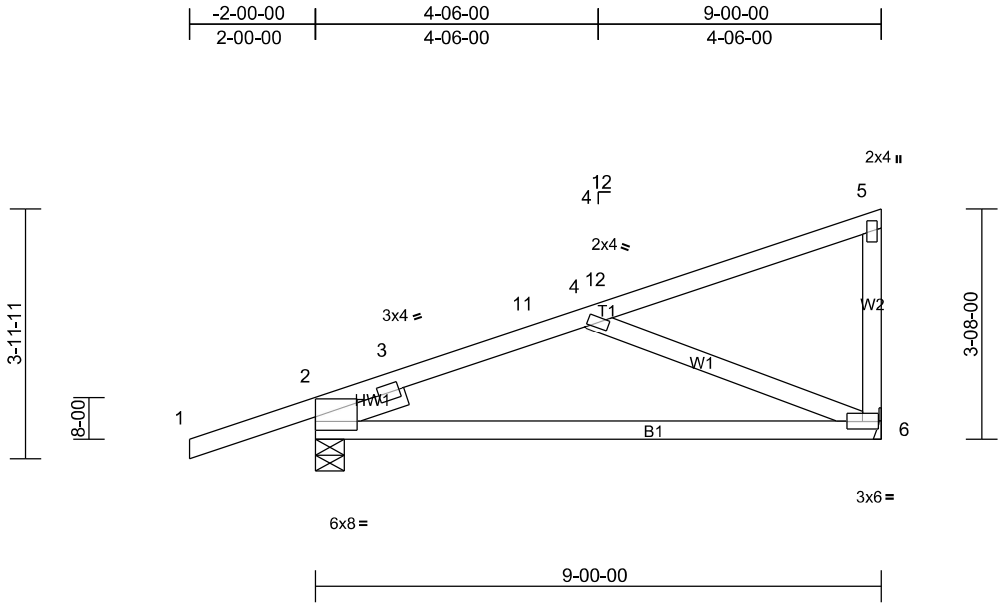
NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
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 User Defined 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 11 lb uplift at joint 4 and 25 lb uplift at joint 3.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	H5	Jack-Closed	4	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.81 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:TXVT7_P4I2BbbUA65U1AERz4ICM-C?YQH?Z76AMRG?8bQ_DH4AOmeaKNoozWOFNx0GyMYh7



Scale = 1:36.7

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.16	6-9	>677	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.31	6-9	>346	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.02	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 34 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 -- 1-06-00

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 (size) 2=5-08, (min. 1-08), 6= Mechanical, (min. 1-08)
Max Horiz 2=116 (LC 11)
Max Uplift 2=-82 (LC 8), 6=-34 (LC 12)
Max Grav 2=800 (LC 19), 6=614 (LC 19)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-804/280, 3-11=-785/72, 4-11=-766/82
BOT CHORD 2-6=-381/781
WEBS 4-6=-839/98

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -2-0-0 to 0-8-10, Interior (1) 0-8-10 to 4-7-5, Exterior (2) 4-7-5 to 8-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
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 User Defined crushing capacity of 425 psi.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 2 and 34 lb uplift at joint 6.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

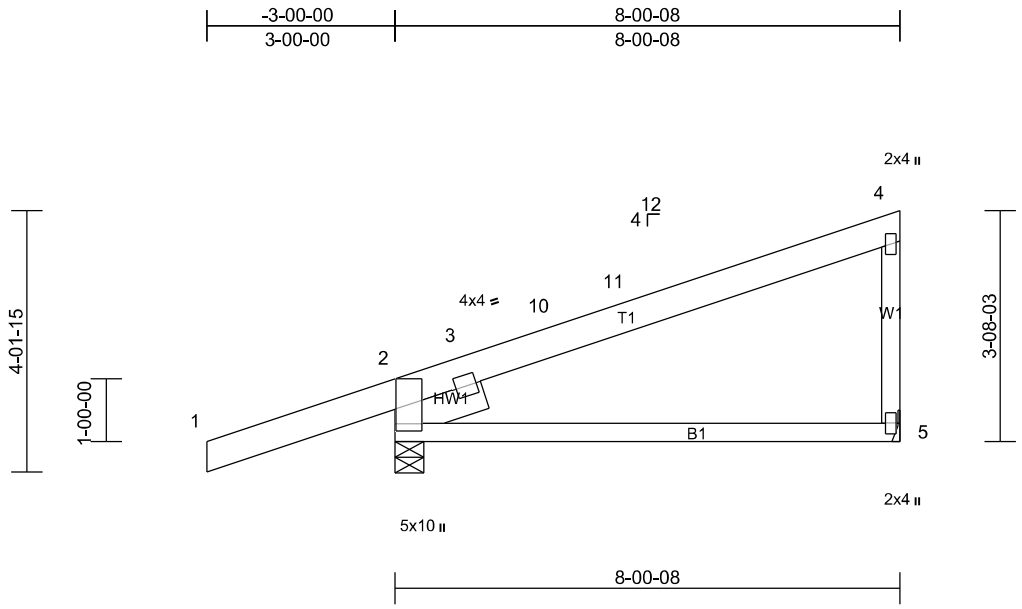
LOAD CASE(S) Standard

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	J1	Jack-Closed	14	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.81 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:rT63QdjW42NLd?s0LoTB0xz4I9M-C?YQH?Z76AMRG?8bQ_DH4AOIsaMaotJWOFNx0GyMYh7



Scale = 1:36.7

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	0.14	5-8	>694	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.23	5-8	>404	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.06	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 36 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 -- 1-06-00

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=5-08, (min. 1-08), 5= Mechanical, (min. 1-08)
Max Horiz 2=116 (LC 11)
Max Uplift 2=-116 (LC 8), 5=-27 (LC 12)
Max Grav 2=883 (LC 19), 5=517 (LC 19)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-321/743, 4-5=-438/70
BOT CHORD 2-5=-402/48

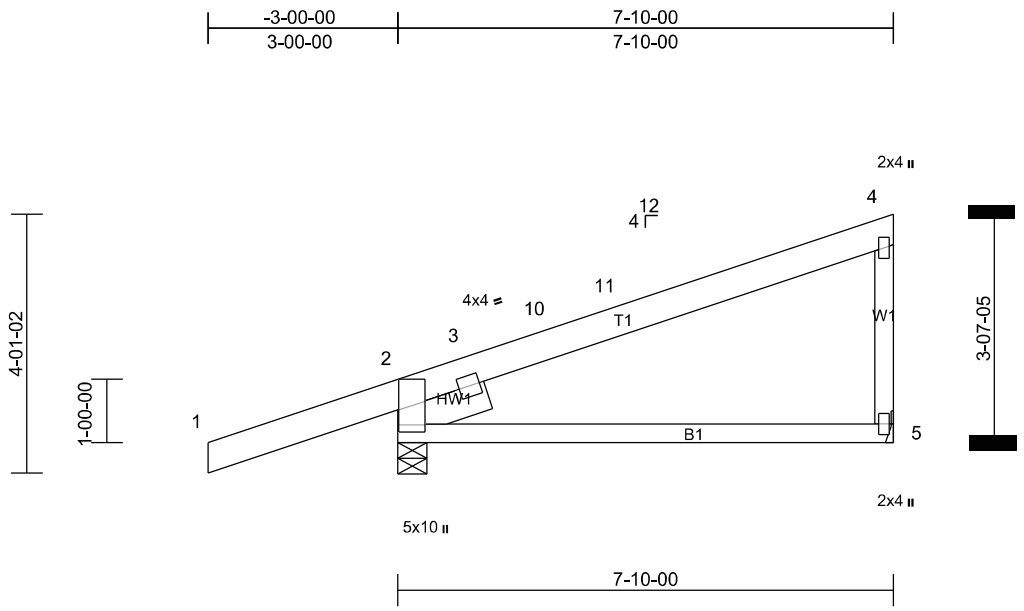
NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -3-0-0 to 0-0-0, Interior (1) 0-0-0 to 3-7-13, Exterior (2) 3-7-13 to 7-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
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 User Defined crushing capacity of 425 psi.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 5 and 116 lb uplift at joint 2.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	K1	Jack-Closed	11	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.73 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1
ID:cqAMopRXBApzC3sMIh11vNz4I8R-C?YQH?Z76AMRG?8bQ_DH4AOICaMwotJWOFNx0GyMYh7



Scale = 1:36.5

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	0.13	5-8	>715	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.21	5-8	>446	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.05	2	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 36 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
SLIDER Left 2x6 SPF No.2 -- 1-06-00

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=5-08, (min. 1-08), 5= Mechanical, (min. 1-08)
Max Horiz 2=114 (LC 11)
Max Uplift 2=-116 (LC 8), 5=-26 (LC 12)
Max Grav 2=871 (LC 19), 5=499 (LC 19)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-302/749, 4-5=-423/68
BOT CHORD 2-5=-397/47

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -3-0-0 to 0-0-0, Interior (1) 0-0-0 to 3-5-5, Exterior (2) 3-5-5 to 7-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
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 User Defined crushing capacity of 425 psi.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 5 and 116 lb uplift at joint 2.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

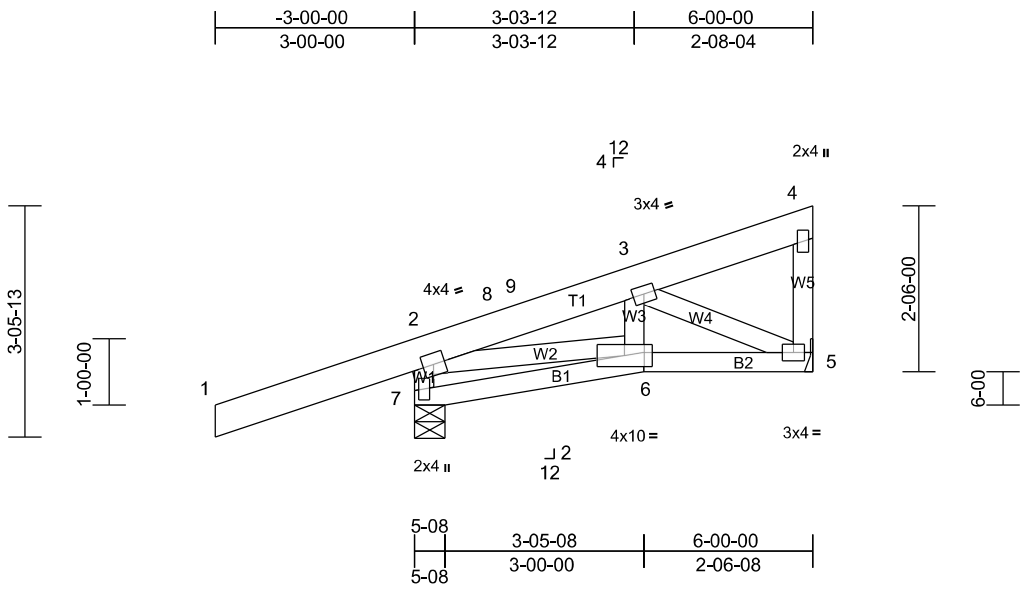
LOAD CASE(S) Standard

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	L1	Jack-Closed	3	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.73 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:9jjhsjFYPIFTIMUEjGkk6Vz4I7O-gB6oULaltTUlt9jn_hkWdOwviznXXJ9gdv7UYjyMYh6



Scale = 1:34.8

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	0.01	6	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.02	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 34 lb	FT = 20%

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

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

REACTIONS (size) 5= Mechanical, (min. 1-08), 7=5-08, (min. 1-08)
Max Horiz 7=93 (LC 9)
Max Uplift 5=-42 (LC 18), 7=-123 (LC 8)
Max Grav 5=321 (LC 19), 7=836 (LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-803/224, 2-8=-375/254, 8-9=-340/259, 3-9=-326/272
BOT CHORD 5-6=-341/258
WEBS 2-6=-350/253, 3-5=-286/378

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -3-0-0 to 0-1-12, Interior (1) 0-1-12 to 1-7-5, Exterior (2) 1-7-5 to 5-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
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 User Defined crushing capacity of 425 psi.
8) Refer to girder(s) for truss to truss connections.
9) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 7 and 42 lb uplift at joint 5.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

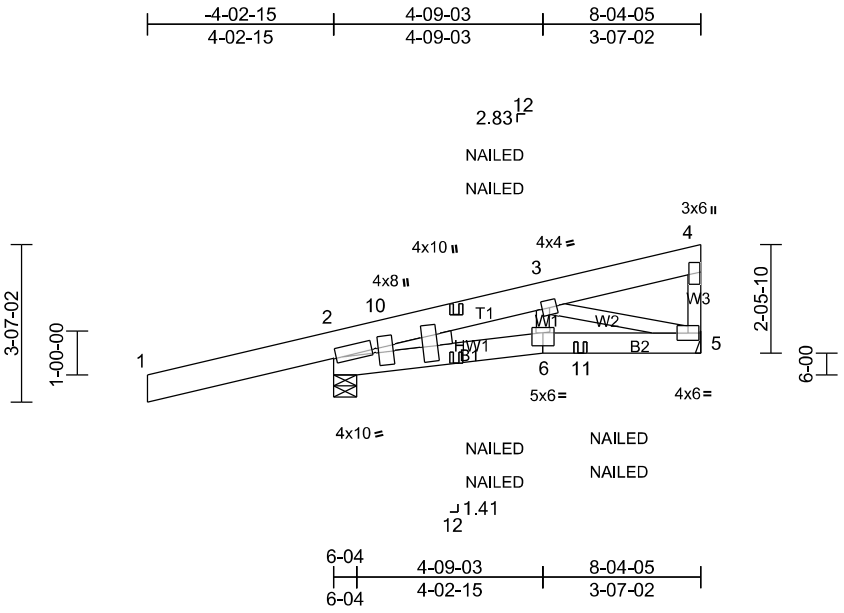
LOAD CASE(S) Standard

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	L1CJ	Diagonal Hip Girder	2	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.73 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:0LpCqnnmNN4RqiujWqu3BAz4kyN-gB6oULaltTUlt9jn_hkWdOw_YzlpXIDgdv7UYjyMYh6



Scale = 1:52.5

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	0.02	6-9	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.22	Vert(CT)	0.02	7-9	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.15	Horz(CT)	-0.01	5	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 64 lb	FT = 20%

LUMBER

TOP CHORD	2x8 SP DSS
BOT CHORD	2x6 SPF No.2
WEBS	2x4 SPF No.2
WEDGE	Left: 2x4 SPF No.2

BRACING

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

REACTIONS (size) 2=6-04, (min. 1-10), 5= Mechanical, (min. 1-08)
Max Horiz 2=76 (LC 34)
Max Uplift 2=-186 (LC 6), 5=-69 (LC 16)
Max Grav 2=1040 (LC 17), 5=520 (LC 17)

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

TOP CHORD	2-10=-319/987, 2-10=-316/997, 2-3=-670/528, 4-5=-270/37
BOT CHORD	2-6=-835/591, 6-11=-560/590, 5-11=-560/590
WEBS	3-5=-619/587

NOTES

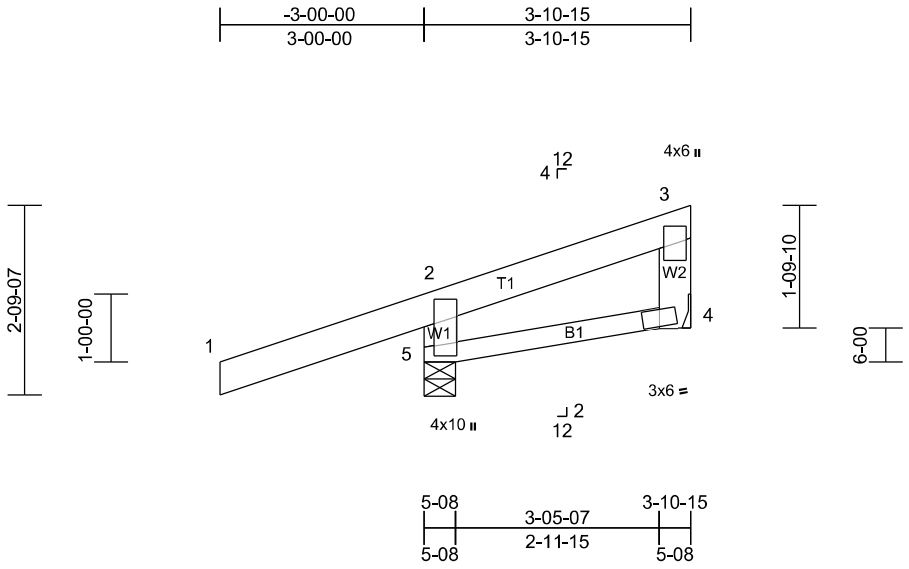
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 186 lb uplift at joint 2 and 69 lb uplift at joint 5.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (lb/ft)
   Vert: 1-4=-100, 6-7=-20, 5-6=-20
   Concentrated Loads (lb)
   Vert: 8=76, 9=80, 11=-120

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	L2	Jack-Closed	4	1	Job Reference (optional)



Scale = 1:33.9

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	0.01	4-5	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.01	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 21 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 4= Mechanical, (min. 1-08), 5=5-08, (min. 1-08)
Max Horiz 5=69 (LC 9)
Max Uplift 4=-203 (LC 18), 5=-138 (LC 8)
Max Grav 4=88 (LC 19), 5=922 (LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-812/230

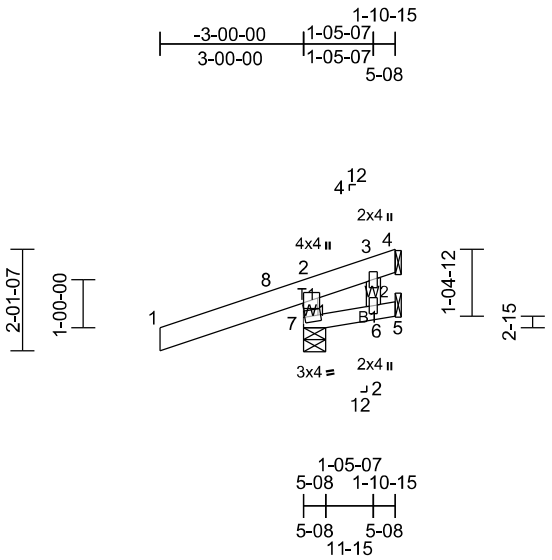
NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 5 and 203 lb uplift at joint 4.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	L3	Jack-Open	4	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.81 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:Icd91w2WldO5?Kj?SWHmDJz4kzK-gB6oULaltTUlt9jn_hkWdOwwczmfXKsgdv7UYjyMYh6



Scale = 1:48.1

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	0.01	6-7	>999	240	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.17	Vert(CT)	0.01	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.02	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 13 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 4= Mechanical, (min. 1-08), 5= Mechanical, (min. 1-08), 7=5-08, (min. 1-12)
Max Horiz 7=49 (LC 8)
Max Uplift 4=-306 (LC 18), 5=-167 (LC 18), 7=-162 (LC 8)
Max Grav 4=32 (LC 8), 5=30 (LC 8), 7=1109 (LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-1092/257

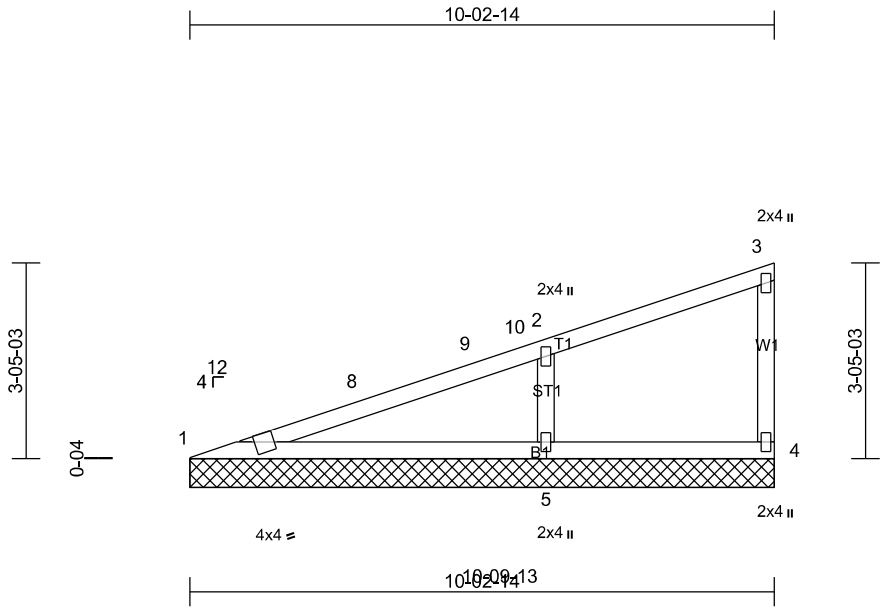
NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -3-0-0 to 0-1-12, Interior (1) 0-1-12 to 1-10-13 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
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 User Defined crushing capacity of 425 psi.
8) Refer to girder(s) for truss to truss connections.
9) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 162 lb uplift at joint 7, 306 lb uplift at joint 4 and 167 lb uplift at joint 5.
11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	V01	Valley	1	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.81 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:s_4Uu3?qBKCHobzhofZuzbz4lLv-gB6oULaltTUlt9jn_hkWdOwzTzgIXJ8gdv7UYjyMYh6



Scale = 1:40.4

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.54	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 28 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 6-0-0 oc bracing.

REACTIONS (size) 1=10-02-14, (min. 2-02), 4=10-02-14, (min. 2-02), 5=10-02-14, (min. 2-02)
Max Horiz 1=105 (LC 9)
Max Uplift 1=-2 (LC 8), 4=-6 (LC 9), 5=-59 (LC 12)
Max Grav 1=303 (LC 18), 4=161 (LC 18), 5=883 (LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-676/30
BOT CHORD 1-5=-43/629
WEBS 2-5=-668/120

NOTES

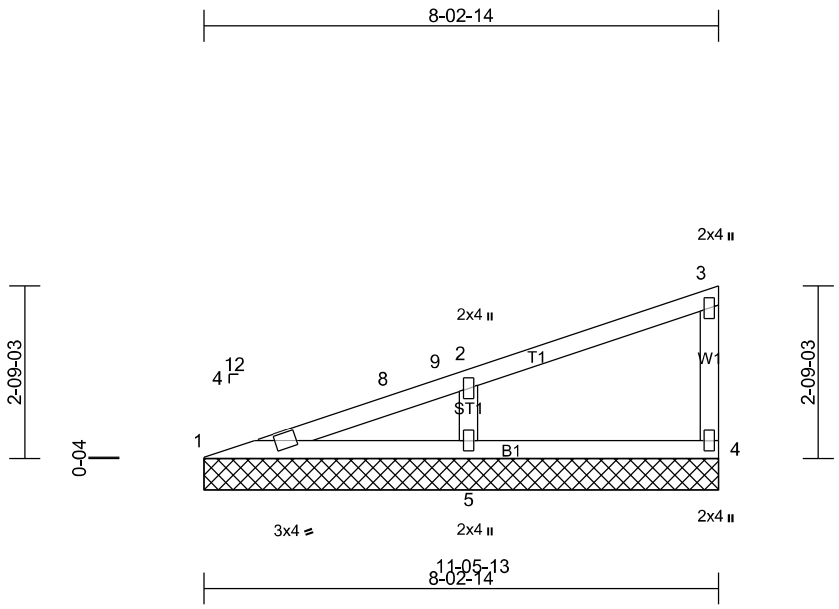
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 5-10-15, Exterior (2) 5-10-15 to 10-1-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 4, 2 lb uplift at joint 1 and 59 lb uplift at joint 5.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	V02	Valley	1	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.73 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:dXZWZo6rJnD8lpaDGLjmHHz4lLn-8NgAihaNenc9VJI_XPFIAbTBTN6fGmjprZs149yMYh5



Scale = 1:36.9

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 22 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 (size) 1=8-02-14, (min. 1-11), 4=8-02-14, (min. 1-11), 5=8-02-14, (min. 1-11)
Max Horiz 1=83 (LC 9)
Max Uplift 4=-8 (LC 12), 5=-44 (LC 12)
Max Grav 1=198 (LC 1), 4=207 (LC 18), 5=665 (LC 18)

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

TOP CHORD	1-8=-368/12
BOT CHORD	1-5=-33/338
WEBS	2-5=-530/133

NOTES

1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 3-10-15, Exterior (2) 3-10-15 to 8-1-14 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) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 4 and 44 lb uplift at joint 5.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

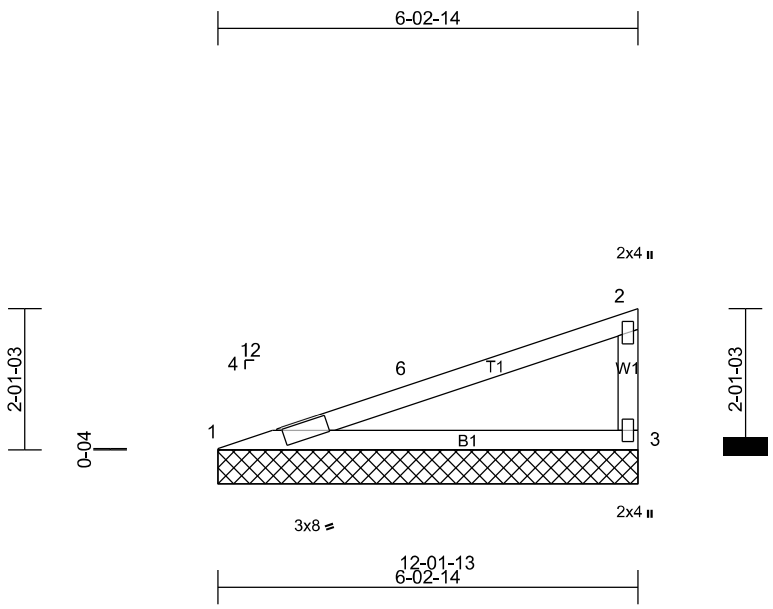
LOAD CASE(S) Standard

[redacted]™

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	V03	Valley	1	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.73 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:KSAIgDD6ysTjyML8sRu6hOz4lLd-8NgAihaNenc9VJI_XPFIAbT5rNyIGnpprZs149yMYh5



Scale = 1:34.3

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.78	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.02	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 15 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) 1=6-02-14, (min. 1-08), 3=6-02-14, (min. 1-08)
Max Horiz 1=61 (LC 9)
Max Uplift 1=-15 (LC 8), 3=-24 (LC 12)
Max Grav 1=380 (LC 18), 3=406 (LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-902/130, 2-3=-281/69
BOT CHORD 1-3=-144/844

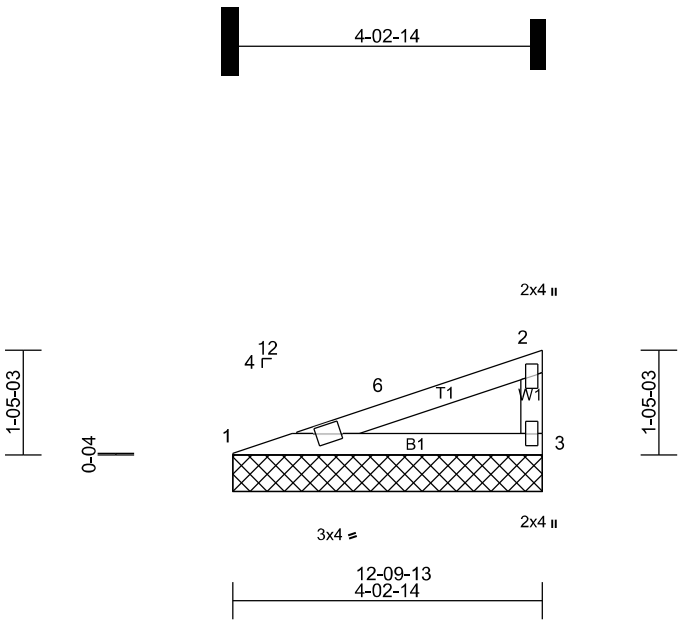
LOAD CASE(S) Standard

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; 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) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 3 and 15 lb uplift at joint 1.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Job	Truss	Truss Type	Qty	Ply	North Hero [redacted]
24060082JR	V04	Valley	1	1	Job Reference (optional)

[redacted] Site Built, LLC, [redacted] SE Engineering Run: 8.73 S [redacted] Print: 8.810 S [redacted] MiTek Industries, Inc. [redacted] Page: 1

ID:ZBDiZIKmqdcSXkXttqYDZHz4ILU-8NgAihaNenc9VJI_XPFIAbTDBN4UGnpprZs149yMYh5



Scale = 1:31.6

Loading	(psf)	Spacing	2-00-00	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow = 40.0)		Lumber DOL	1.15	BC	0.32	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										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 4-2-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=4-02-14, (min. 1-08), 3=4-02-14, (min. 1-08)
Max Horiz 1=39 (LC 9)
Max Uplift 1=-10 (LC 8), 3=-16 (LC 12)
Max Grav 1=251 (LC 18), 3=261 (LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-522/82
BOT CHORD 1-3=-90/484

LOAD CASE(S) Standard

NOTES
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; 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) TCLL: ASCE 7-10; Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 3 and 10 lb uplift at joint 1.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.