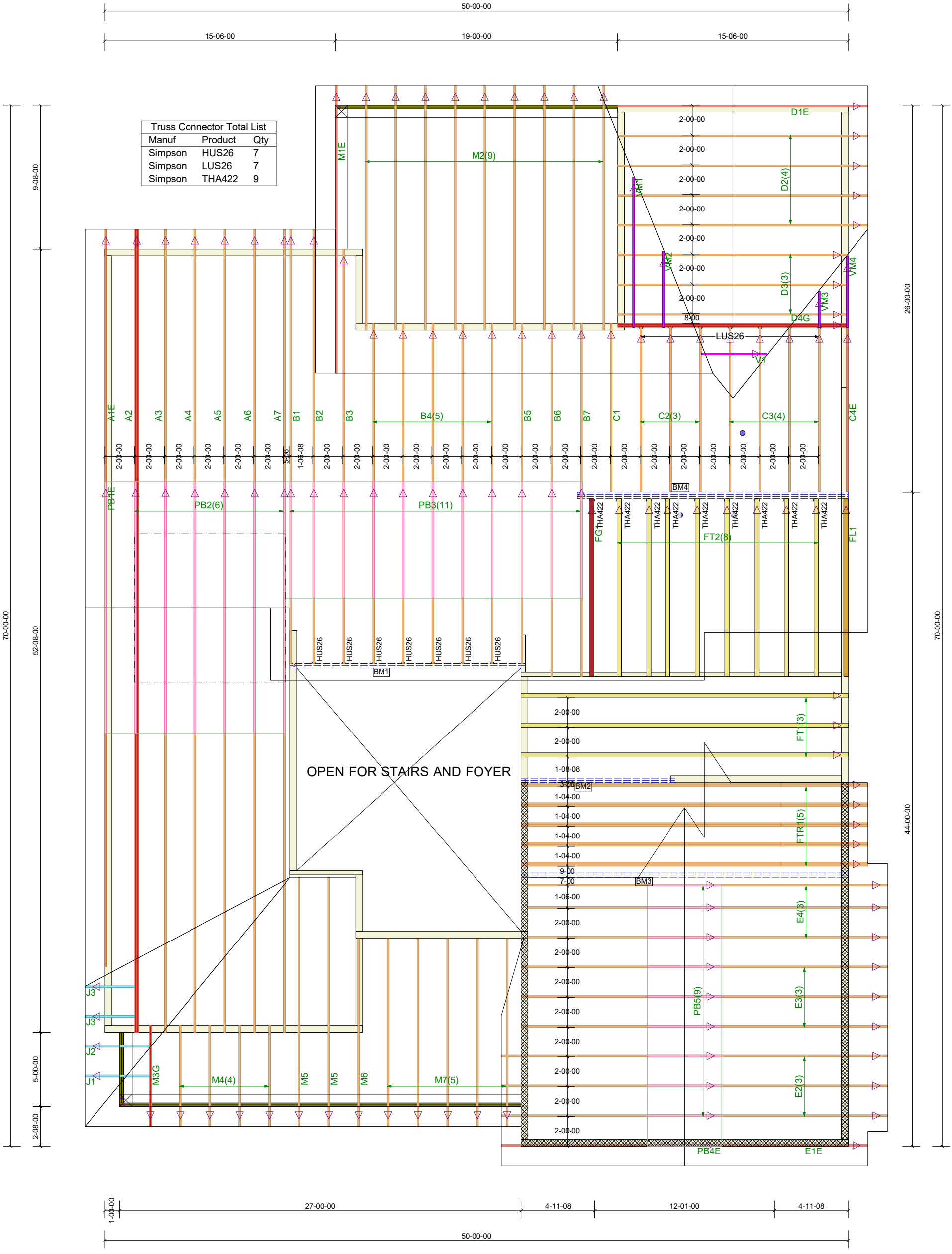
Truss Connector Total List		
Manuf	Product	Qty
Simpson	HUS26	7
Simpson	LUS26	7
Simpson	THA422	9



Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
BM3	22-00-00	1-3/4" x 16" VERSA-LAM® LVL 2.1E 3100 SP	2	2	FF
BM4	20-00-00	1-3/4" x 16" VERSA-LAM® LVL 2.1E 3100 SP	3	3	FF
BM1	16-00-00	1-3/4" x 16" VERSA-LAM® LVL 2.1E 3100 SP	2	2	FF
BM2	12-00-00	1-3/4" x 16" VERSA-LAM® LVL 2.1E 3100 SP	2	2	FF

Roof Truss Placement Plan

NOT TO SCALE

DESIGNED DATE

9/16/2026

Sheet # 1 of 1

TRUSS INSTALLATION REQUIRES TEMPORARY AND PERMANENT BRACING. GENERAL GUIDANCE IS PROVIDED IN SBCA DOC's B-1 and B-3. THESE ARE INCLUDED WITH EACH JOB IN YOUR TRUSS PACKET.

DO NOT CUT, NOTCH, OR BORE HOLES UNLESS SPECIFIC, WRITTEN PERMISSION IS PROVIDED BY AN AUTHORIZED REPRESENTATIVE OF 84 LUMBER.

Designer: JPS

Location: 2383-Dunn

Park Square Homes

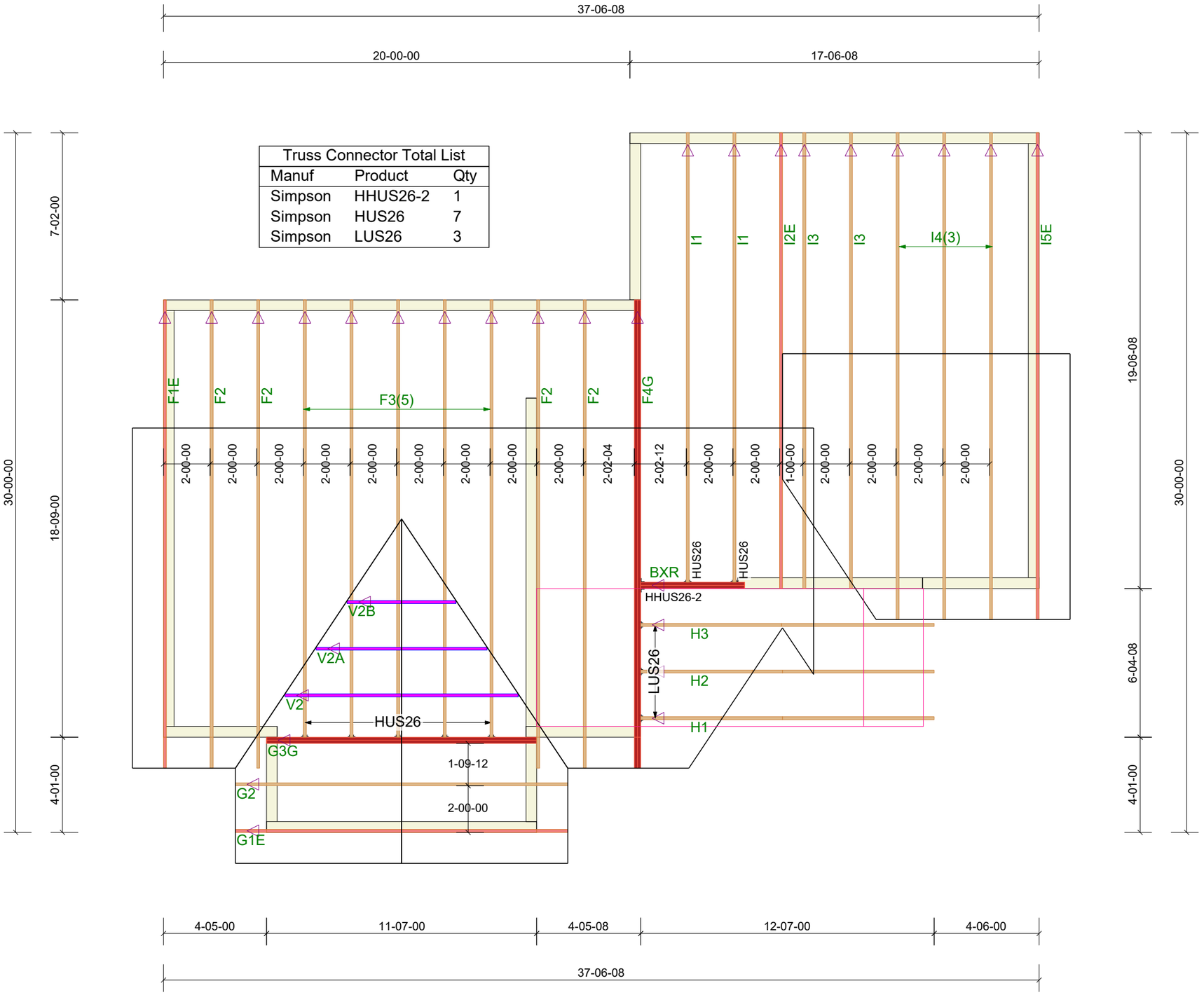
Plan 1 - Carolina Acre

Elev B - Traditional

Job# - 2606610-42287

84 LUMBER

84 Components
200 Emmett Rd
Dunn NC 28334
United States
Office: (910) 892-8400



84 LUMBER

84 Components
200 Emmett Rd
Dunn NC 28334
United States
Office: (910) 892-8400

Park Square Homes

Plan 1 - Carolina Acre

Elev B - Traditional

Job# - 2606610-42287

Location	2383-Dunn
Designer	JPS

DO NOT CUT, NOTCH, OR BORE HOLES UNLESS SPECIFIC, WRITTEN PERMISSION IS PROVIDED BY AN AUTHORIZED REPRESENTATIVE OF 84 LUMBER.

TRUSS INSTALLATION REQUIRES TEMPORARY AND PERMANENT BRACING. GENERAL GUIDANCE IS PROVIDED IN SBCA DOC's B-1 and B-3. THESE ARE INCLUDED WITH EACH JOB IN YOUR TRUSS PACKET.

Sheet # 1 of 1

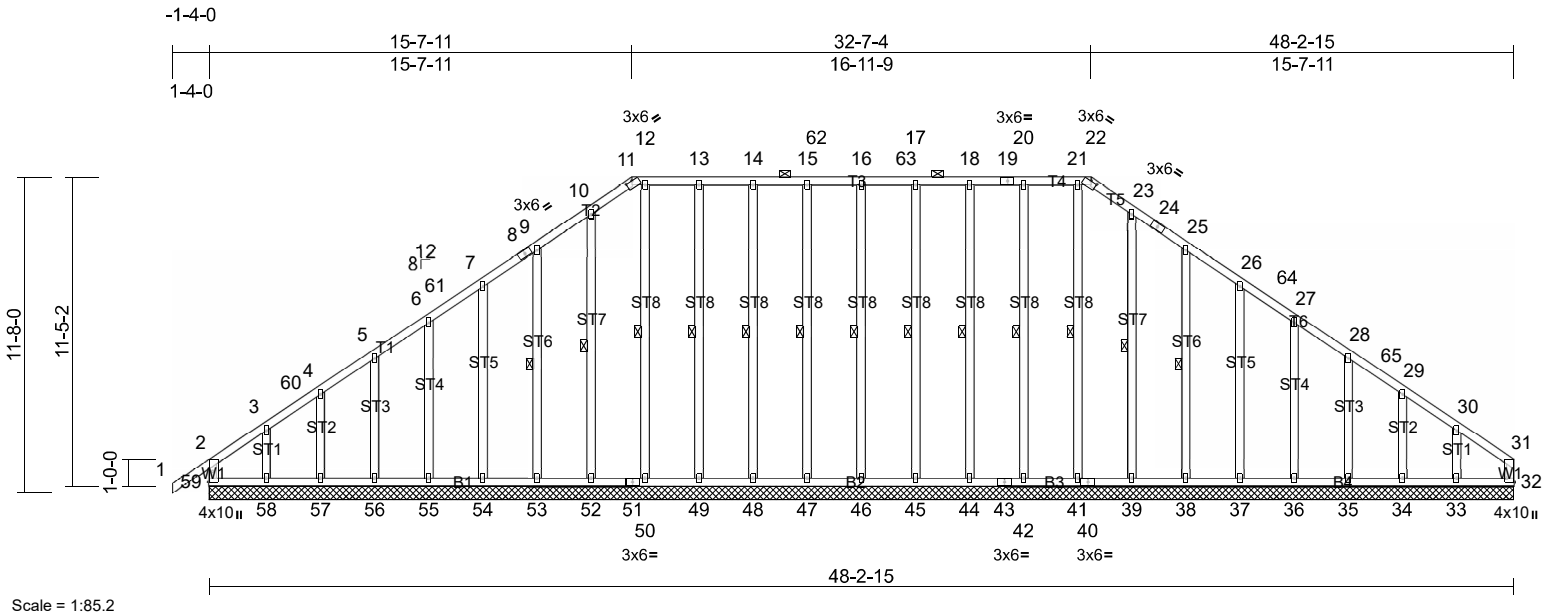
Roof Truss Placement Plan

NOT TO SCALE

DESIGNED DATE

9/16/2026

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	A1E	Piggyback Base Supported Gable	1	1	Job Reference (optional)



Scale = 1:85.2

Plate Offsets (X, Y): [11:0-3-0,0-0-2], [22:0-3-0,0-0-2], [32:Edge,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	32	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 425 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 0-0-0 oc purlins (6-0-0 max.): 11-22.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 16-46, 15-47, 14-48, 13-49, 12-50, 10-52, 9-53, 17-45, 18-44, 20-42, 21-41, 23-39, 25-38

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

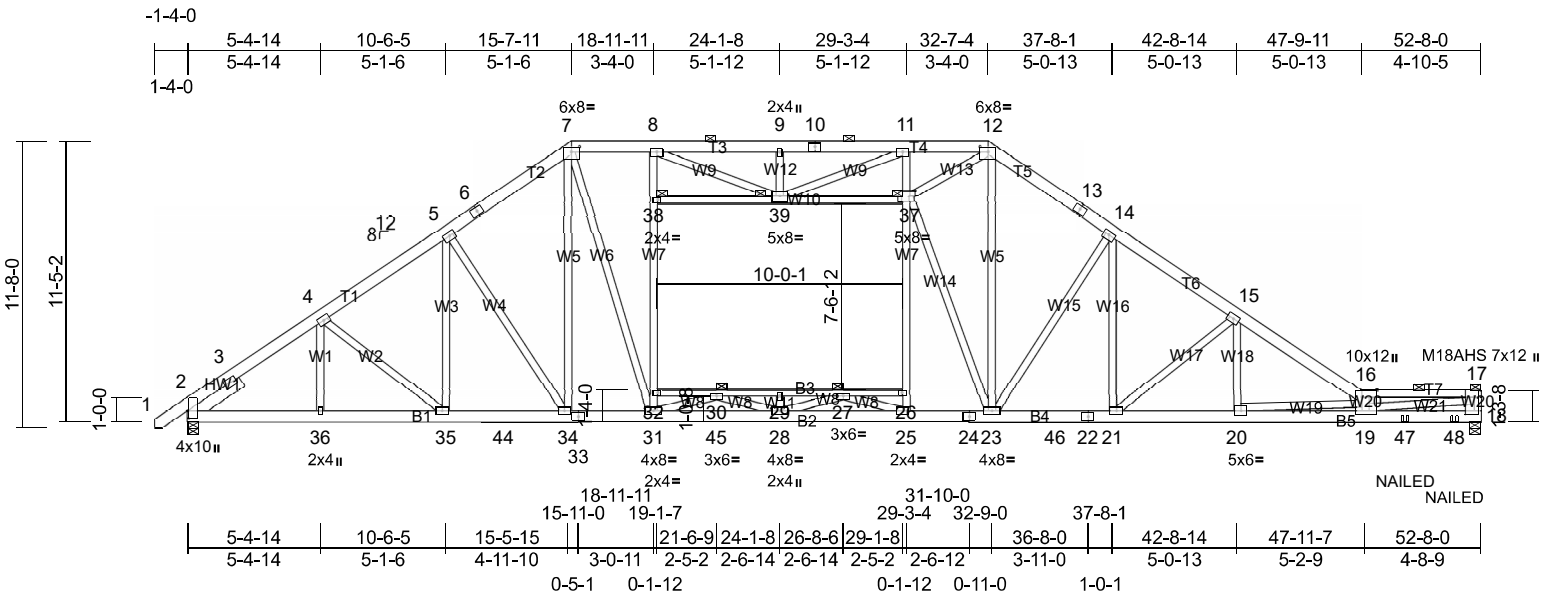
REACTIONS All bearings 48-2-15.
(lb) - Max Horiz 59=243 (LC 13)
Max Uplift All uplift 100 (lb) or less at joint(s) 32, 34, 35, 36, 37, 38, 39, 42, 44, 45, 46, 47, 48, 49, 50, 52, 53, 54, 55, 56, 57 except 33=-128 (LC 15), 58=-140 (LC 14), 59=-108 (LC 10)
Max Grav All reactions 250 (lb) or less at joint (s) 32, 33, 34, 35, 36, 37, 38, 39, 41, 42, 44, 45, 46, 47, 48, 49, 50, 52, 53, 54, 55, 56, 57, 58 except 59=256 (LC 27)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 3-5-14, Interior (1) 3-5-14 to 15-7-11, Exterior(2R) 15-7-11 to 22-5-9, Interior (1) 22-5-9 to 32-7-4, Exterior(2R) 32-7-4 to 39-5-2, Interior (1) 39-5-2 to 48-1-3 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) Provide adequate drainage to prevent water ponding.
8) All plates are 2x4 (||) MT20 unless otherwise indicated.
9) Gable requires continuous bottom chord bearing.
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * 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.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 32, 46, 47, 48, 49, 50, 52, 53, 54, 55, 56, 57, 45, 44, 42, 39, 38, 37, 36, 35, 34 except (jt=lb) 59=108, 58=139, 33=127.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	A2	Attic Girder	1	2	Job Reference (optional)



Scale = 1:93.9

Plate Offsets (X, Y): [2:0-3-12,0-0-9], [7:0-4-0,0-2-12], [12:0-4-0,0-2-12], [16:0-3-8,Edge], [17:0-3-8,Edge], [37:0-2-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.34	19-20	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.66	19-20	>952	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.10	18	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS		Attic	-0.06	26-32	>999	360		
BCDL	10.0										Weight: 1039 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* T7:2x4 SP No.1
BOT CHORD 2x6 SP No.2 *Except* B3:2x4 SP No.2, B5:2x6 SP DSS
WEBS 2x4 SP No.2 *Except* W21:2x4 SP No.1
SLIDER Left 2x6 SP No.2 -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-10-0 oc purlins, except end verticals, and 0-0-0 oc purlins (3-0-12 max.): 7-12, 16-17.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 29-30,27-29,26-27.
JOINTS 1 Brace at Jt(s): 17, 37, 38, 39, 30, 27

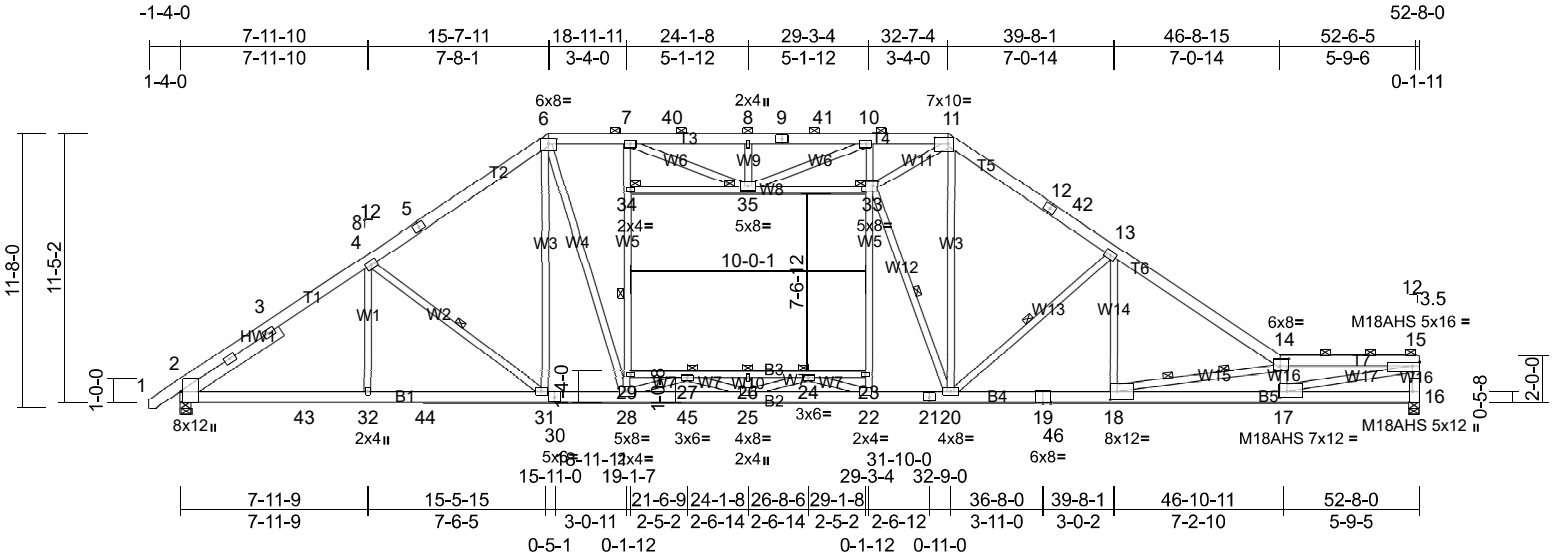
REACTIONS (lb/size) 2=2118/0-5-8, (min. 0-1-11), 18=2098/0-5-8, (min. 0-1-10)
Max Horiz 2=236 (LC 9)
Max Uplift 18=-83 (LC 11)
Max Grav 2=2848 (LC 3), 18=2751 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1889/0, 3-4=-3909/0, 4-5=-3905/0, 5-6=-3679/0, 6-7=-3601/0, 7-8=-3397/0, 8-9=-4211/0, 9-10=-4211/0, 10-11=-4211/0, 11-12=-4468/84, 12-13=-4098/0, 13-14=-4157/0, 14-15=-4976/0, 15-16=-6571/0, 16-17=-10266/110, 17-18=-2108/60
BOT CHORD 2-36=-25/3118, 35-36=-25/3118, 35-44=0/3243, 34-44=0/3243, 33-34=0/2973, 31-33=0/2973, 31-45=0/4085, 28-45=0/4085, 25-28=0/4168, 24-25=0/3407, 23-24=0/3407, 23-46=0/4073, 22-46=0/4073, 21-22=0/4073, 20-21=0/5527, 19-20=-126/10686, 19-47=-43/948, 47-48=-43/948, 18-48=-43/948, 29-30=-1306/0, 27-29=-1306/0
WEBS 4-35=-43/258, 5-34=-569/197, 7-34=-150/544, 7-31=-3/1544, 31-32=-901/86, 32-38=-854/180, 8-38=-751/191, 25-26=0/589, 26-37=0/782, 11-37=-391/224, 23-37=-555/264, 12-23=-43/1401, 14-23=-1308/206, 14-21=-66/1249, 15-21=-1883/161, 15-20=-9/1659, 16-20=-5242/187, 16-19=-2676/44, 17-19=-78/9504, 37-39=-246/1255, 8-39=-209/1066, 9-39=-286/104, 11-39=-425/319, 30-31=-1038/0, 28-30=0/483, 28-29=-255/0, 27-28=0/397, 25-27=-1036/0, 12-37=-164/1465

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
7) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
8) Provide adequate drainage to prevent water ponding.
9) All plates are MT20 plates unless otherwise indicated.
10) All plates are 4x6 (=) MT20 unless otherwise indicated.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * 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.
13) Ceiling dead load (5.0 psf) on member(s). 38-39, 37-39; Wall dead load (5.0psf) on member(s).32-38, 26-37
14) Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 30-32, 29-30, 27-29, 26-27
15) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 18.
16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
17) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
18) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-7=-43, 7-12=-53, 12-16=-43, 16-17=-53, 18-40=-20, 26-32=-30, 38-39=-10, 37-39=-10
Drag: 32-38=-10, 26-37=-10
Concentrated Loads (lb)
Vert: 47=-33, 48=-34

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	A3	Attic	1	1	Job Reference (optional)



Scale = 1:98

Plate Offsets (X, Y): [2:0-5-8,Edge], [6:0-4-0,0-2-12], [11:0-6-12,0-3-4], [14:0-4-8,0-3-8], [15:Edge,0-2-0], [16:0-5-8,Edge], [17:0-3-12,0-3-0], [18:0-3-8,0-4-0], [33:0-2-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.47	17-18	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.92	17-18	>680	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.17	16	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS		Attic	-0.09	23-29	>999	360		
BCDL	10.0										Weight: 503 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* T7:2x6 SP DSS
BOT CHORD 2x6 SP DSS *Except* B3:2x4 SP No.2, B4:2x6 SP No.2
WEBS 2x4 SP No.2 *Except* W17:2x4 SP DSS
SLIDER Left 2x6 SP No.2 -- 5-0-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 0-0-0 oc purlins (2-8-6 max.): 6-11, 14-15.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
5-0-2 oc bracing: 26-27
5-0-4 oc bracing: 24-26
6-0-0 oc bracing: 23-24.
WEBS 1 Row at midpt 4-31, 29-34, 20-33, 13-20
WEBS 2 Rows at 1/3 pts 14-18
JOINTS 1 Brace at Jt(s): 15, 33, 34, 27, 24, 35

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

REACTIONS (lb/size) 2=2116/0-5-8, (min. 0-3-6), 16=2042/0-5-8, (min. 0-3-3)
Max Horiz 2=242 (LC 13)
Max Uplift 16=-39 (LC 15)
Max Grav 2=2884 (LC 3), 16=2704 (LC 3)

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

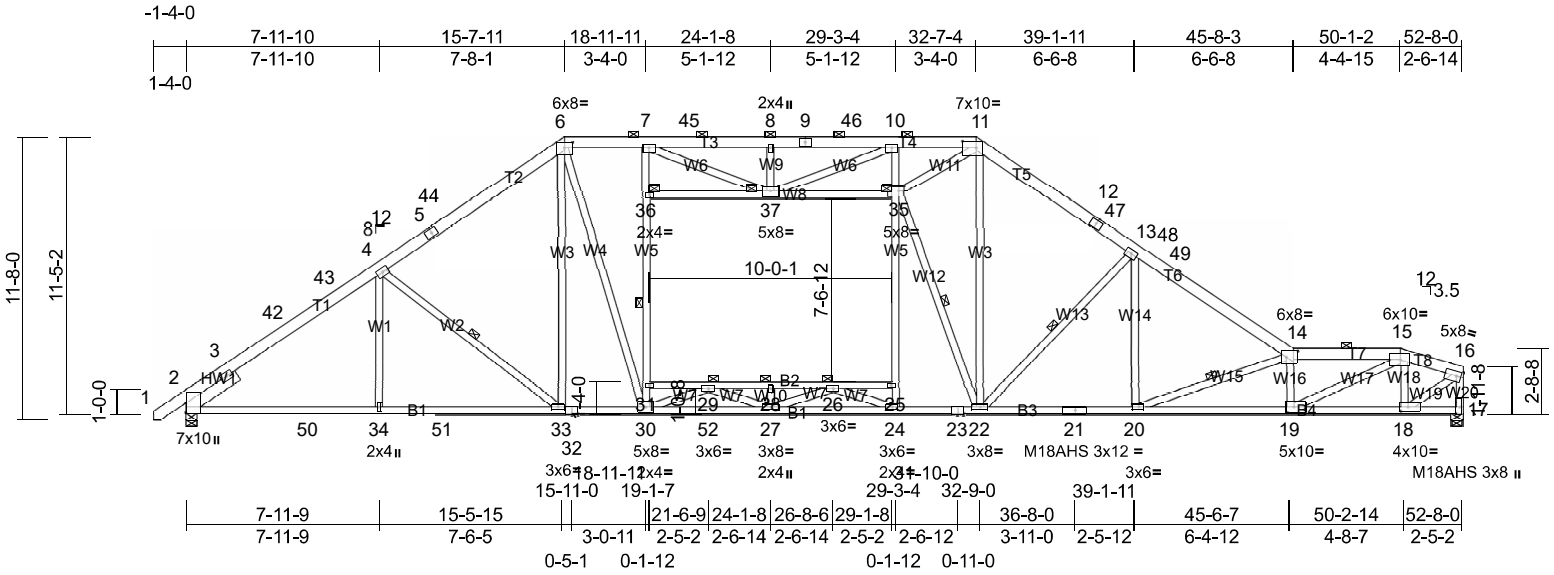
TOP CHORD 2-3=-1478/46, 3-4=-4061/36, 4-5=-3701/10, 5-6=-3633/56, 6-7=-3403/50, 7-40=-4206/83, 8-40=-4206/83, 8-9=-4206/83, 9-41=-4206/83, 10-41=-4206/83, 10-11=-4429/65, 11-12=-4088/63, 12-42=-4120/33, 13-42=-4195/20, 13-14=-5505/47, 14-15=-8439/85, 15-16=-2447/51
BOT CHORD 2-43=-23/3288, 32-43=-23/3288, 32-44=-23/3288, 31-44=-23/3288, 30-31=0/3006, 28-30=0/3006, 28-45=0/4108, 25-45=0/4108, 22-25=0/4192, 21-22=0/3413, 20-21=0/3413, 19-20=0/4566, 19-46=0/4566, 18-46=0/4566, 17-18=-94/8655, 16-17=-22/315, 26-27=-1279/0, 24-26=-1279/0
WEBS 4-32=0/288, 4-31=-468/241, 6-31=-110/481, 6-28=-16/1472, 28-29=-868/91, 29-34=-826/184, 7-34=-723/196, 22-23=0/596, 23-33=0/783, 10-33=-397/221, 20-33=-571/248, 11-20=-38/1416, 13-20=-1633/221, 13-18=0/1332, 14-18=-4186/143, 14-17=-2297/64, 33-35=-231/1213, 27-28=-1036/0, 25-27=0/443, 24-25=0/357, 22-24=-1034/0, 7-35=-201/1053, 8-35=-290/104, 10-35=-392/326, 11-33=-149/1425, 15-17=-68/8423

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-2-3 to 4-1-0, Interior (1) 4-1-0 to 15-7-11, Exterior(2R) 15-7-11 to 20-10-14, Interior (1) 20-10-14 to 32-7-4, Exterior(2R) 32-7-4 to 37-10-7, Interior (1) 37-10-7 to 52-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) All plates are 4x6 (=) MT20 unless otherwise indicated.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
11) Ceiling dead load (5.0 psf) on member(s). 34-35, 33-35; Wall dead load (5.0psf) on member(s).29-34, 23-33
12) Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 27-29, 26-27, 24-26, 23-24
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 16.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
15) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	A4	Attic	1	1	Job Reference (optional)



Scale = 1:95.1

Plate Offsets (X, Y): [2:0-4-14,0-0-1], [6:0-4-0,0-2-12], [11:0-6-12,0-3-4], [14:0-5-12,0-3-0], [18:0-3-8,0-2-0], [19:0-3-8,0-2-8], [35:0-2-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.40	20-22	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.78	24-27	>809	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.25	17	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS		Attic	-0.09	25-31	>999	360		
BCDL	10.0										Weight: 462 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* T1:2x6 SP DSS
BOT CHORD 2x4 SP DSS *Except* B2:2x4 SP No.2, B3:2x4 SP No.1
WEBS 2x4 SP No.2 *Except* W17:2x4 SP No.1
SLIDER Left 2x6 SP No.2 -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-6-11 oc purlins, except end verticals, and 0-0-0 oc purlins (2-4-14 max.): 6-11, 14-15.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
9-9-6 oc bracing: 19-20
4-7-11 oc bracing: 28-29
4-7-15 oc bracing: 26-28
6-0-0 oc bracing: 25-26.
WEBS 1 Row at midpt 4-33, 31-36, 22-35, 13-22, 14-20
JOINTS 1 Brace at Jt(s): 35, 36, 29, 28, 26, 37

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

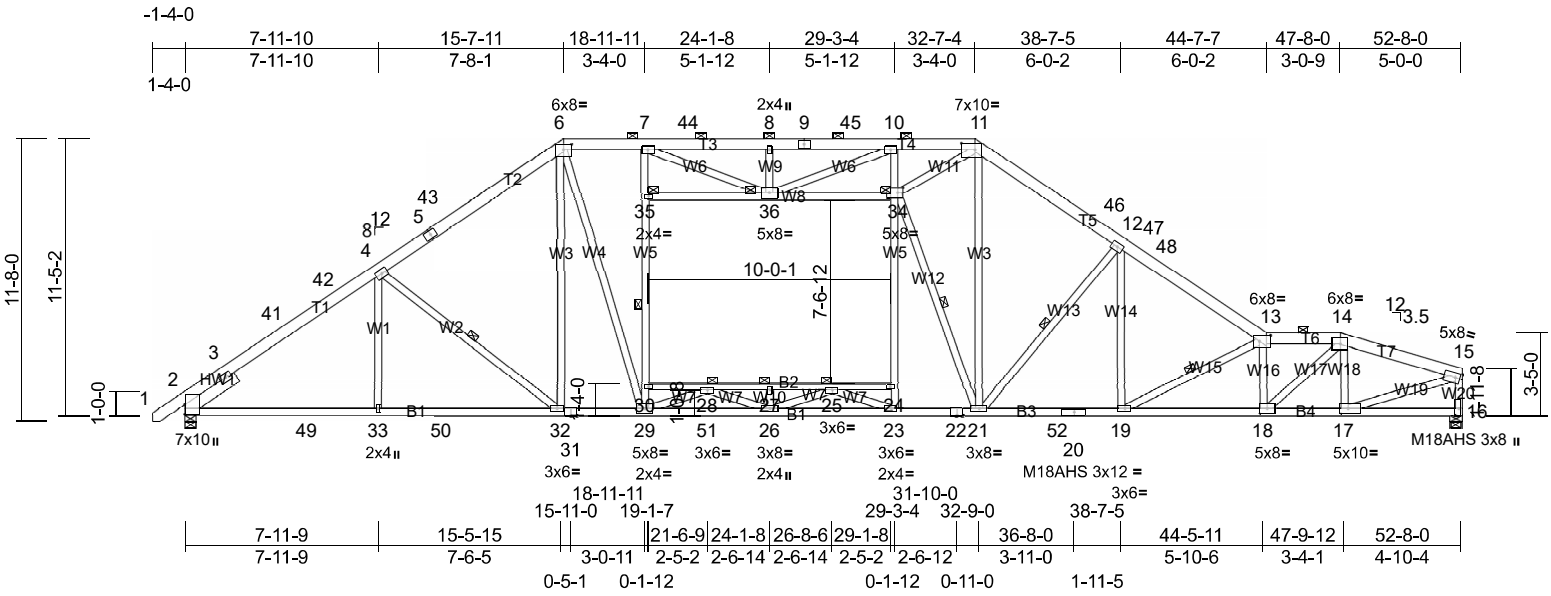
REACTIONS (lb/size) 2=2112/0-5-8, (min. 0-3-6), 17=2037/0-5-8, (min. 0-3-3)
Max Horiz 2=-220 (LC 14)
Max Uplift 17=-39 (LC 17)
Max Grav 2=2884 (LC 3), 17=2716 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1482/81, 3-42=-4200/227, 42-43=-4134/230, 4-43=-4047/256, 4-5=-3721/221, 5-44=-3672/233, 6-44=-3658/268, 6-7=-3401/253, 7-45=-4225/338, 8-45=-4225/338, 8-9=-4225/338, 9-46=-4225/338, 10-46=-4225/338, 10-11=-4474/295, 11-12=-4085/304, 12-47=-4138/268, 13-47=-4182/264, 13-48=-5148/338, 48-49=-5154/332, 14-49=-5292/313, 14-15=-7185/498, 15-16=-2795/214, 16-17=-2693/223
BOT CHORD 2-50=-202/3357, 34-50=-202/3357, 34-51=-202/3357, 33-51=-202/3357, 32-33=-31/3026, 30-32=-31/3026, 30-52=0/4151, 27-52=0/4151, 24-27=0/4225, 23-24=-10/3409, 22-23=-10/3409, 21-22=-218/4382, 20-21=-218/4382, 19-20=-496/7053, 18-19=-234/2773, 28-29=-1459/0, 26-28=-1459/0
WEBS 4-34=0/356, 4-33=-587/245, 6-33=-114/581, 6-30=-19/1419, 30-31=-916/96, 31-36=-867/190, 7-36=-764/202, 24-25=0/595, 25-35=0/789, 10-35=-413/250, 22-35=-579/307, 11-22=-64/1413, 13-22=-1545/266, 13-20=-60/1247, 14-20=-2837/296, 14-19=-2119/178, 15-19=-307/4956, 15-18=-1698/166, 35-37=-254/1259, 16-18=-249/3208, 29-30=-1103/0, 27-29=0/591, 27-28=-256/0, 26-27=0/515, 24-26=-1104/0, 7-37=-212/1084, 8-37=-387/104, 10-37=-555/340, 11-35=-174/1483

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-2-3 to 4-1-0, Interior (1) 4-1-0 to 15-7-11, Exterior(2R) 15-7-11 to 20-10-14, Interior (1) 20-10-14 to 32-7-4, Exterior(2R) 32-7-4 to 37-10-7, Interior (1) 37-10-7 to 50-1-2, Exterior(2E) 50-1-2 to 52-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) All plates are 4x6 (=) MT20 unless otherwise indicated.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * 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.
12) Ceiling dead load (5.0 psf) on member(s). 36-37, 35-37; Wall dead load (5.0psf) on member(s).31-36, 25-35
13) Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 29-31, 28-29, 26-28, 25-26
14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 17.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	A5	Attic	1	1	Job Reference (optional)



Scale = 1:95.1

Plate Offsets (X, Y): [2:0-4-14,0-0-1], [6:0-4-0,0-2-12], [11:0-6-12,0-3-4], [13:0-5-8,0-3-0], [17:0-3-8,0-2-8], [18:0-3-8,0-2-8], [34:0-2-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.37	23-26	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.72	23-26	>871	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.23	16	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS		Attic	-0.09	24-30	>999	360		
BCDL	10.0										Weight: 466 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* T1:2x6 SP DSS
BOT CHORD 2x4 SP DSS *Except* B2:2x4 SP No.2, B3:2x4 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-6-11 oc purlins, except end verticals, and 0-0-0 oc purlins (2-9-4 max.): 6-11, 13-14.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
4-7-12 oc bracing: 27-28
4-7-15 oc bracing: 25-27
6-0-0 oc bracing: 24-25.
WEBS 1 Row at midpt 4-32, 30-35, 21-34, 12-21, 13-19
JOINTS 1 Brace at Jt(s): 34, 35, 28, 27, 25, 36

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

REACTIONS (lb/size) 2=2112/0-5-8, (min. 0-3-6), 16=2023/0-5-8, (min. 0-3-3)
Max Horiz 2=-222 (LC 14)
Max Uplift 16=-39 (LC 17)
Max Grav 2=2885 (LC 3), 16=2717 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1483/81, 3-41=-4202/229, 41-42=-4136/232, 4-42=-4048/257, 4-5=-3723/222, 5-43=-3673/234, 6-43=-3660/269, 6-7=-3403/254, 7-44=-4226/340, 8-44=-4226/340, 8-9=-4226/340, 9-45=-4226/340, 10-45=-4226/340, 10-11=-4482/299, 11-46=-4084/310, 12-46=-4174/274, 12-47=-5020/337, 47-48=-5042/332, 13-48=-5152/314, 13-14=-6258/442, 14-15=-4169/312, 15-16=-2624/231
BOT CHORD 2-49=-201/3359, 33-49=-201/3359, 33-50=-201/3359, 32-50=-201/3359, 31-32=-29/3027, 29-31=-29/3027, 29-51=0/4152, 26-51=0/4152, 23-26=0/4226, 22-23=-8/3411, 21-22=-8/3411, 21-52=-200/4265, 20-52=-200/4265, 19-20=-200/4265, 18-19=-421/6162, 17-18=-307/4020, 27-28=-1457/0, 25-27=-1457/0
WEBS 4-33=0/356, 4-32=-587/245, 6-32=-114/581, 6-29=-20/1419, 29-30=-915/97, 30-35=-866/191, 7-35=-763/202, 23-24=0/598, 24-34=0/792, 10-34=-416/240, 21-34=-581/308, 11-21=-72/1412, 12-21=-1456/262, 12-19=-74/1226, 13-19=-2126/248, 13-18=-2007/143, 14-18=-166/3092, 14-17=-1184/120, 34-36=-256/1265, 15-17=-290/4076, 28-29=-1102/0, 26-28=0/591, 26-27=-256/0, 25-26=0/514, 23-25=-1103/0, 7-36=-214/1084, 8-36=-387/104, 10-36=-546/339, 11-34=-176/1490

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-2-3 to 4-1-0, Interior (1) 4-1-0 to 15-7-11, Exterior(2R) 15-7-11 to 20-10-14, Interior (1) 20-10-14 to 32-7-4, Exterior(2R) 32-7-4 to 37-10-7, Interior (1) 37-10-7 to 47-8-0, Exterior(2E) 47-8-0 to 52-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) All plates are 4x6 (=) MT20 unless otherwise indicated.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * 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.
12) Ceiling dead load (5.0 psf) on member(s). 35-36, 34-36; Wall dead load (5.0psf) on member(s).30-35, 24-34
13) Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 28-30, 27-28, 25-27, 24-25
14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 16.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	A6	Attic	1	1	Job Reference (optional)

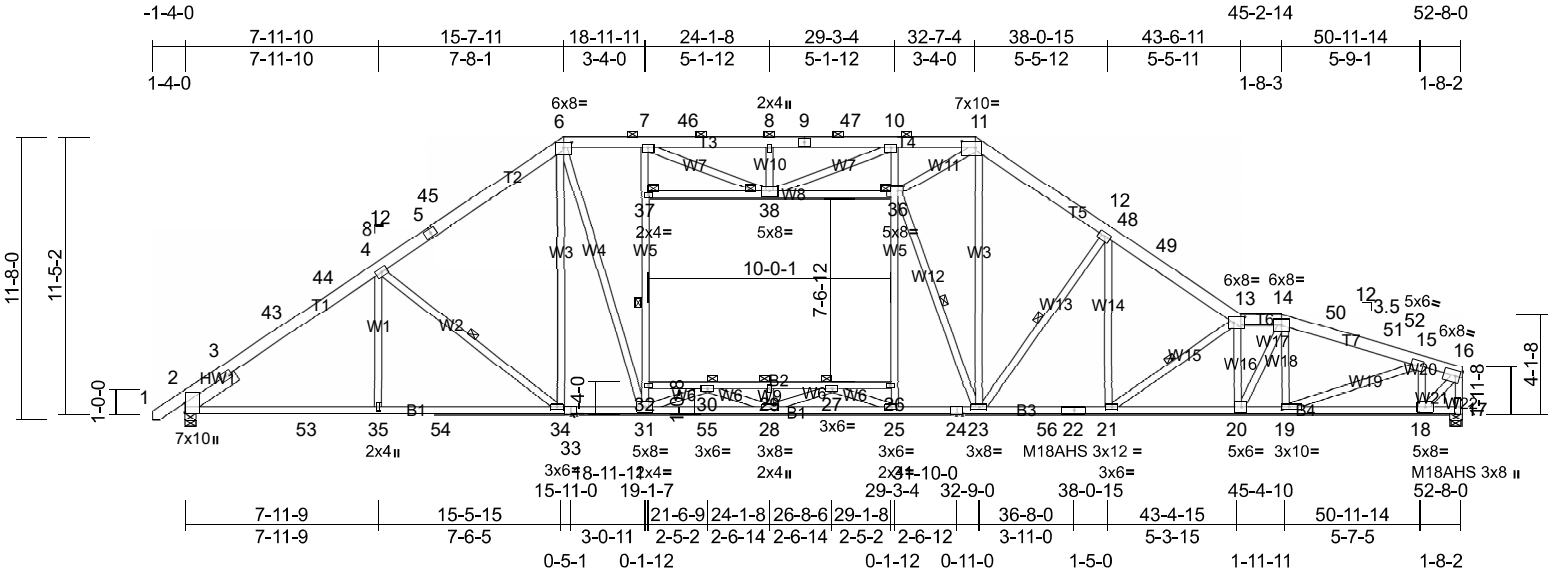


Plate Offsets (X, Y): [2:0-4-14,0-0-1], [6:0-4-0,0-2-12], [11:0-6-12,0-3-4], [13:0-5-8,0-3-0], [18:0-3-8,0-2-8], [19:0-3-8,0-1-8], [36:0-2-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.35	25-28	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.69	25-28	>917	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.23	17	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS		Attic	-0.08	26-32	>999	360		
BCDL	10.0										Weight: 474 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* T1:2x6 SP DSS
BOT CHORD 2x4 SP DSS *Except* B2:2x4 SP No.2, B3:2x4 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-6-9 oc purlins, except end verticals, and 0-0-0 oc purlins (2-11-12 max.): 6-11, 13-14.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
4-7-12 oc bracing: 29-30
4-8-0 oc bracing: 27-29
6-0-0 oc bracing: 26-27.
WEBS 1 Row at midpt 4-34, 32-37, 23-36, 12-23, 13-21
JOINTS 1 Brace at Jt(s): 36, 37, 38, 30, 29, 27

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

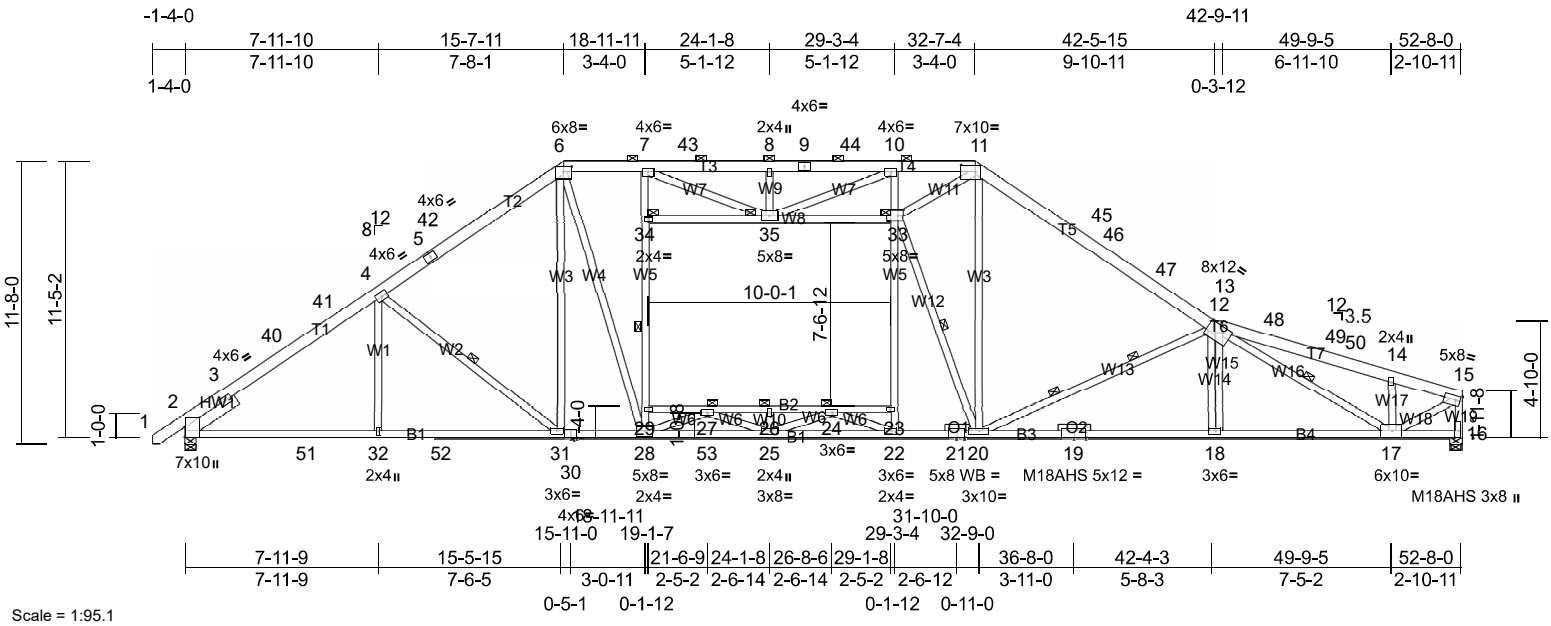
REACTIONS (lb/size) 2=2111/0-5-8, (min. 0-3-6), 17=2011/0-5-8, (min. 0-3-3)
Max Horiz 2=-224 (LC 14)
Max Uplift 17=-39 (LC 17)
Max Grav 2=2885 (LC 3), 17=2715 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1483/81, 3-43=-4202/235, 43-44=-4135/237, 4-44=-4048/263, 4-5=-3722/228, 5-45=-3673/241, 6-45=-3660/275, 6-7=-3402/259, 7-46=-4224/351, 8-46=-4224/351, 8-9=-4224/351, 9-47=-4224/351, 10-47=-4224/351, 10-11=-4482/320, 11-12=-4164/322, 12-48=-4880/346, 48-49=-4934/344, 13-49=-5016/324, 13-14=-5626/417, 14-50=-4860/375, 50-51=-4871/366, 51-52=-4906/357, 15-52=-4913/355, 15-16=-2135/205, 16-17=-2709/208
BOT CHORD 2-53=-199/3360, 35-53=-199/3360, 35-54=-199/3360, 34-54=-199/3360, 33-34=-28/3027, 31-33=-28/3027, 31-55=0/4151, 28-55=0/4151, 25-28=0/4225, 24-25=-6/3411, 23-24=-6/3411, 23-56=-178/4158, 22-56=-178/4158, 21-22=-178/4158, 20-21=-351/5555, 19-20=-314/4705, 18-19=-187/2047, 29-30=-1455/0, 27-29=-1455/0
WEBS 4-35=0/356, 4-34=-587/245, 6-34=-114/581, 6-31=-21/1414, 31-32=-909/98, 32-37=-860/192, 7-37=-757/203, 25-26=0/603, 26-36=0/797, 10-36=-422/233, 23-36=-582/313, 11-23=-80/1414, 12-23=-1394/271, 12-21=-91/1198, 13-21=-1694/223, 13-20=-1824/107, 14-20=-95/2103, 14-19=-799/67, 15-19=-132/2800, 15-18=-1954/213, 36-38=-261/1266, 16-18=-244/2892, 11-36=-180/1493, 8-38=-388/103, 7-38=-216/1084, 10-38=-539/339, 30-31=-1101/0, 28-30=0/590, 28-29=-256/0, 27-28=0/513, 25-27=-1102/0

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-2-3 to 4-1-0, Interior (1) 4-1-0 to 15-7-11, Exterior(2R) 15-7-11 to 20-10-14, Interior (1) 20-10-14 to 32-7-4, Exterior(2R) 32-7-4 to 38-0-15, Interior (1) 38-0-15 to 45-2-14, Exterior(2R) 45-2-14 to 50-6-1, Interior (1) 50-6-1 to 52-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) All plates are 4x6 (=) MT20 unless otherwise indicated.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * 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.
12) Ceiling dead load (5.0 psf) on member(s). 37-38, 36-38; Wall dead load (5.0psf) on member(s).32-37, 26-36
13) Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 30-32, 29-30, 27-29, 26-27
14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 17.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	A7	Attic	1	1	Job Reference (optional)



Scale = 1:95.1

Plate Offsets (X, Y): [2:0-5-2,0-0-1], [6:0-4-0,0-2-12], [11:0-7-0,0-3-8], [12:0-7-8,Edge], [33:0-2-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.39	18-20	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.79	18-20	>794	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.24	16	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS		Attic	-0.08	23-29	>999	360		
BCDL	10.0										Weight: 462 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* T5,T1:2x6 SP DSS
BOT CHORD 2x4 SP DSS *Except* B2:2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-6-11 oc purlins, except end verticals, and 0-0-0 oc purlins (2-11-5 max.): 6-11, 12-13.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
4-7-3 oc bracing: 26-27
4-7-6 oc bracing: 24-26
6-0-0 oc bracing: 23-24.
WEBS 1 Row at midpt 4-31, 29-34, 20-33, 13-17
WEBS 2 Rows at 1/3 pts 12-20
JOINTS 1 Brace at Jt(s): 33, 34, 26, 35, 27, 24

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

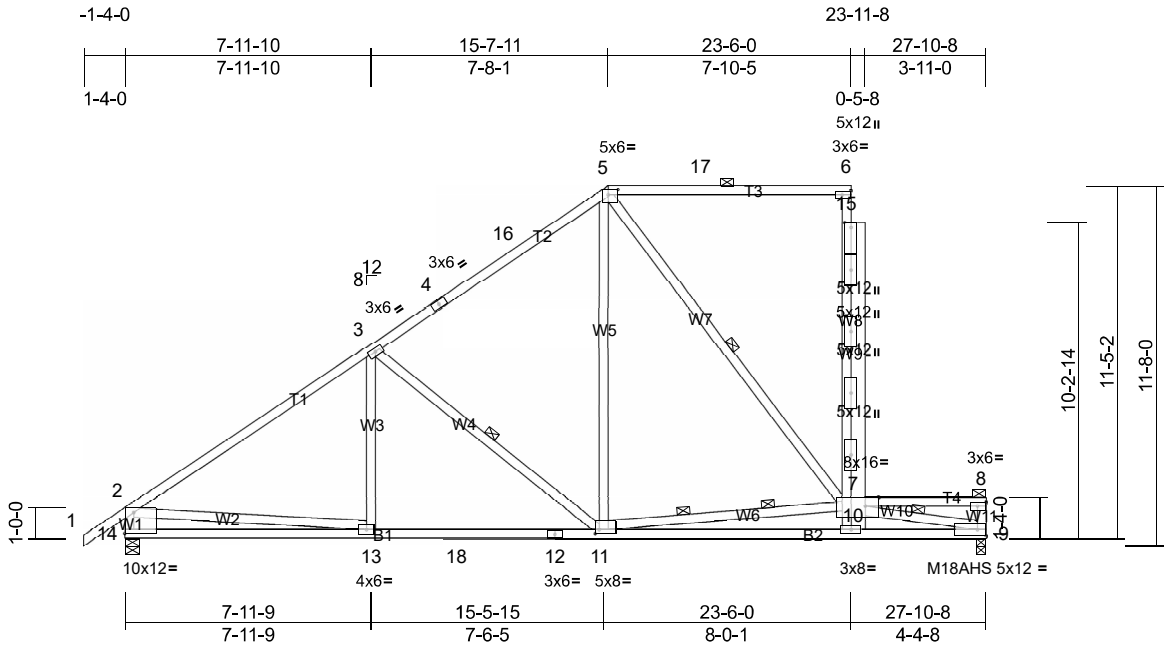
REACTIONS (lb/size) 2=2109/0-5-8, (min. 0-3-6), 16=1999/0-5-8, (min. 0-3-3)
Max Horiz 2=-226 (LC 14)
Max Uplift 16=-39 (LC 17)
Max Grav 2=2874 (LC 3), 16=2689 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1478/80, 3-40=-4184/237, 40-41=-4117/240, 4-41=-4030/266, 4-5=-3703/231, 5-42=-3654/243, 6-42=-3641/277, 6-7=-3383/262, 7-43=-4175/357, 8-43=-4175/357, 8-9=-4175/357, 9-44=-4175/357, 10-44=-4175/357, 10-11=-4383/318, 11-45=-4043/282, 45-46=-4057/251, 46-47=-4063/247, 12-47=-4158/233, 12-13=-5140/424, 13-48=-3075/343, 48-49=-3121/331, 49-50=-3128/328, 14-50=-3163/325, 14-15=-3134/282, 15-16=-2658/215
BOT CHORD 2-51=-197/3345, 32-51=-197/3345, 32-52=-197/3345, 31-52=-197/3345, 30-31=-25/3011, 28-30=-25/3011, 28-53=0/4145, 25-53=0/4145, 22-25=0/4219, 21-22=-4/3392, 20-21=-4/3392, 19-20=-308/5140, 18-19=-308/5140, 17-18=-295/5054, 26-27=-1484/0, 24-26=-1484/0
WEBS 4-32=0/356, 4-31=-588/245, 6-31=-113/582, 6-28=-23/1391, 28-29=-896/100, 29-34=-847/194, 7-34=-744/205, 22-23=0/537, 23-33=0/731, 10-33=-398/316, 20-33=-539/398, 11-20=-95/1341, 12-20=-2023/353, 12-18=-1121/252, 13-17=-2445/64, 14-17=-383/155, 33-35=-263/1183, 15-17=-268/3419, 13-18=-196/1437, 25-26=-255/0, 8-35=-394/100, 10-35=-464/354, 7-35=-220/1080, 11-33=-180/1374, 27-28=-1116/0, 25-27=0/603, 24-25=0/528, 22-24=-1119/0

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-2-3 to 4-1-0, Interior (1) 4-1-0 to 15-7-11, Exterior(2R) 15-7-11 to 20-10-14, Interior (1) 20-10-14 to 32-7-4, Exterior(2R) 32-7-4 to 37-10-7, Interior (1) 37-10-7 to 42-9-11, Exterior(2R) 42-9-11 to 48-0-15, Interior (1) 48-0-15 to 52-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
11) Ceiling dead load (5.0 psf) on member(s). 34-35, 33-35; Wall dead load (5.0psf) on member(s).29-34, 23-33
12) Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 27-29, 26-27, 24-26, 23-24
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 16.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
15) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	B1	Piggyback Base	1	1	Job Reference (optional)



Scale = 1:74.7

Plate Offsets (X, Y): [5:0-3-12,0-2-0], [6:Edge,0-1-8], [7:0-5-4,Edge], [8:Edge,0-1-8], [11:0-1-8,0-1-8], [14:Edge,0-8-2]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.38	10-11	>873	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.74	10-11	>446	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.09	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 216 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T3:2x4 SP No.1
BOT CHORD 2x4 SP DSS
WEBS 2x4 SP No.2 *Except* W9:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-9-12 oc purlins, except end verticals, and 0-0-0 oc purlins (6-0-0 max.): 5-6, 7-10, 7-8.
BOT CHORD Rigid ceiling directly applied or 8-3-12 oc bracing.
WEBS 1 Row at midpt 3-11, 5-7, 7-9
WEBS 2 Rows at 1/3 pts 7-11

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

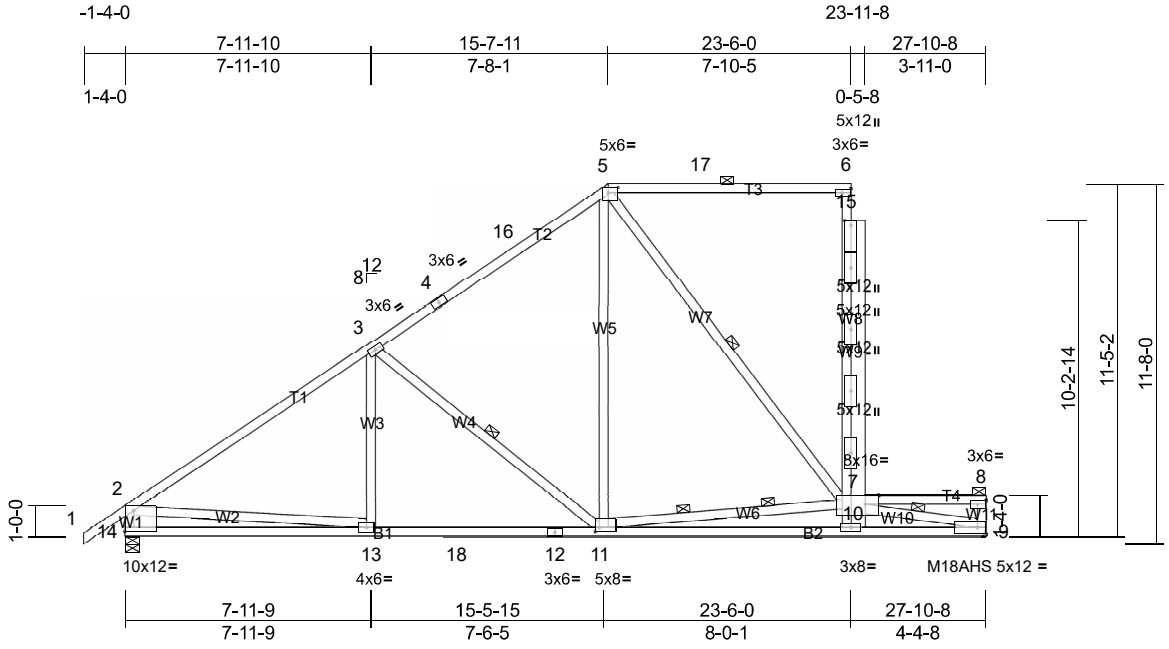
REACTIONS (lb/size) 9=1440/0-3-8, (min. 0-1-14), 14=1040/0-5-8, (min. 0-1-11)
Max Horiz 14=536 (LC 15)
Max Uplift 9=-112 (LC 14), 14=-63 (LC 14)
Max Grav 9=1876 (LC 3), 14=1432 (LC 26)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1747/166, 3-4=-1226/159, 4-16=-1109/182, 5-16=-1097/205, 7-15=-722/156, 6-15=-718/157, 7-8=-357/13, 8-9=-345/0, 2-14=-1303/162
BOT CHORD 13-14=-601/851, 13-18=-428/1382, 12-18=-428/1382, 11-12=-428/1382, 10-11=-440/4771, 9-10=-678/5755
WEBS 3-13=0/285, 3-11=-635/223, 5-11=-112/1226, 5-7=-1199/240, 7-11=-3943/509, 2-13=0/972, 7-9=-5566/675

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 15-7-11, Exterior(2R) 15-7-11 to 18-7-11, Interior (1) 18-7-11 to 27-8-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 9 and 63 lb uplift at joint 14.
11) Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 523 lb down and 80 lb up at 23-7-0 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: 1-2=-43, 2-5=-43, 5-6=-53, 7-8=-83, 9-14=-20
Concentrated Loads (lb)
Vert: 6=-443
3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-50, 2-5=-50, 5-6=-50, 7-8=-140, 13-14=-35, 13-18=-50, 9-18=-35
Concentrated Loads (lb)
Vert: 6=-424

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	B2	Piggyback Base	1	1	Job Reference (optional)



Scale = 1:74.7

Plate Offsets (X, Y): [5:0-3-12,0-2-0], [6:Edge,0-1-8], [7:0-5-4,Edge], [8:Edge,0-1-8], [11:0-1-8,0-1-8], [14:Edge,0-8-2]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.38	10-11	>873	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.74	10-11	>446	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.09	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 216 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T3:2x4 SP No.1
BOT CHORD 2x4 SP DSS
WEBS 2x4 SP No.2 *Except* W9:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-9-12 oc purlins, except end verticals, and 0-0-0 oc purlins (6-0-0 max.): 5-6, 7-10, 7-8.
BOT CHORD Rigid ceiling directly applied or 8-3-12 oc bracing.
WEBS 1 Row at midpt 3-11, 5-7, 7-9
WEBS 2 Rows at 1/3 pts 7-11

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

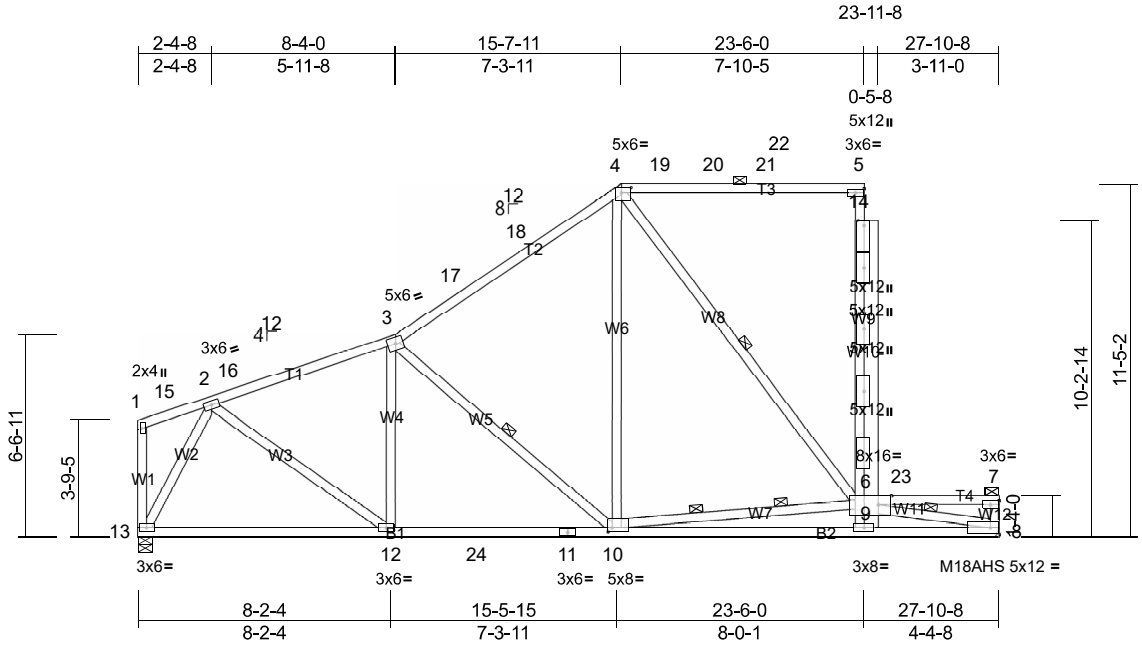
REACTIONS (lb/size) 9=1440/ Mechanical, 14=1040/0-5-8, (min. 0-1-11)
Max Horiz 14=536 (LC 15)
Max Uplift 9=-112 (LC 14), 14=-63 (LC 14)
Max Grav 9=1876 (LC 3), 14=1432 (LC 26)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1747/166, 3-4=-1226/159, 4-16=-1109/182, 5-16=-1097/205, 7-15=-722/156, 6-15=-718/157, 7-8=-357/13, 8-9=-345/0, 2-14=-1303/162
BOT CHORD 13-14=-601/851, 13-18=-428/1382, 12-18=-428/1382, 11-12=-428/1382, 10-11=-440/4771, 9-10=-678/5755
WEBS 3-13=0/285, 3-11=-635/223, 5-11=-112/1226, 5-7=-1199/240, 7-11=-3943/509, 2-13=0/972, 7-9=-5566/675

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 15-7-11, Exterior(2R) 15-7-11 to 18-7-11, Interior (1) 18-7-11 to 27-8-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 9 and 63 lb uplift at joint 14.
12) Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 523 lb down and 80 lb up at 23-7-0 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: 1-2=-43, 2-5=-43, 5-6=-53, 7-8=-83, 9-14=-20
Concentrated Loads (lb)
Vert: 6=-443
3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-50, 2-5=-50, 5-6=-50, 7-8=-140, 13-14=-35, 13-18=-50, 9-18=-35
Concentrated Loads (lb)
Vert: 6=-424

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	B3	Piggyback Base	1	1	Job Reference (optional)



Scale = 1:74.7

Plate Offsets (X, Y): [4:0-3-12,0-2-0], [5:Edge,0-1-8], [6:0-5-4,Edge], [7:Edge,0-1-8], [10:0-1-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.38	9-10	>876	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.74	9-10	>447	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.09	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 222 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T2,T3:2x4 SP DSS
BOT CHORD 2x4 SP DSS
WEBS 2x4 SP No.2 *Except* W10:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-6-15 oc purlins, except end verticals, and 0-0-0 oc purlins (6-0-0 max.): 4-5, 6-9, 6-7.
BOT CHORD Rigid ceiling directly applied or 6-5-13 oc bracing.
WEBS 1 Row at midpt 3-10, 4-6, 6-8
WEBS 2 Rows at 1/3 pts 6-10

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

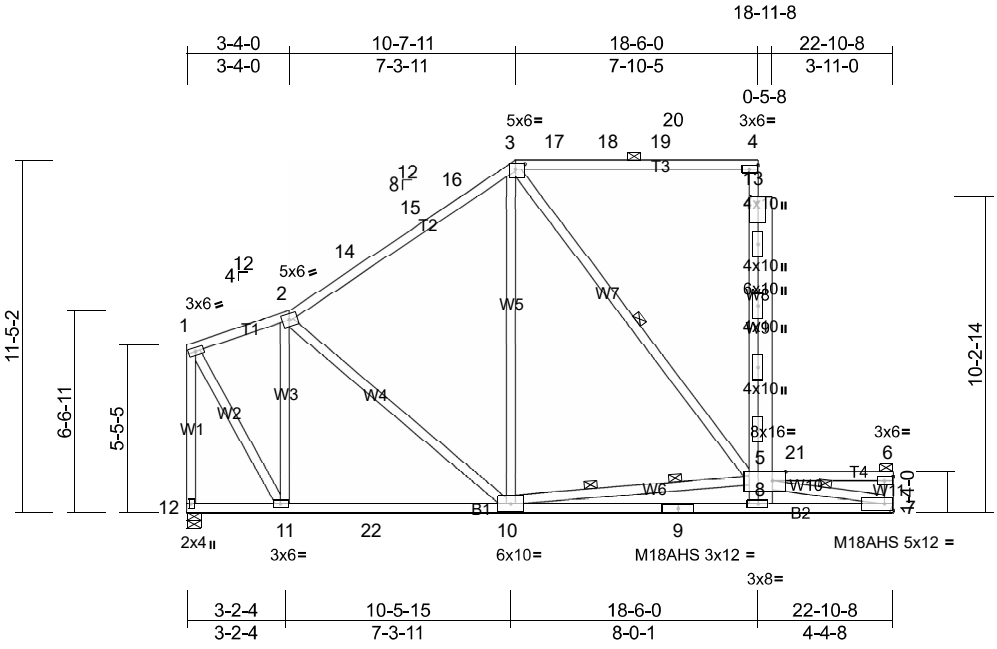
REACTIONS (lb/size) 8=1442/ Mechanical, 13=974/0-5-8, (min. 0-1-8)
Max Horiz 13=516 (LC 17)
Max Uplift 8=-103 (LC 16), 13=-50 (LC 16)
Max Grav 8=1879 (LC 3), 13=1293 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-16=-1394/211, 3-16=-1347/231, 3-17=-1190/250, 17-18=-1093/259, 4-18=-1070/284, 6-14=-783/186, 5-14=-780/183, 6-23=-357/31, 7-23=-357/31, 7-8=-345/0
BOT CHORD 12-13=-509/890, 12-24=-475/1282, 11-24=-475/1282, 10-11=-475/1282, 9-10=-791/4769, 8-9=-1111/5764
WEBS 2-12=-89/860, 3-12=-291/107, 3-10=-500/175, 4-10=-153/1145, 4-6=-1182/316, 6-10=-3918/817, 2-13=-1299/266, 6-8=-5575/1097

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 9-9-12 to 12-9-12, Interior (1) 12-9-12 to 25-3-11, Exterior(2R) 25-3-11 to 28-3-11, Interior (1) 28-3-11 to 37-4-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 8 and 50 lb uplift at joint 13.
12) Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 523 lb down and 115 lb up at 33-3-0 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=-43, 3-4=-43, 4-5=-53, 6-7=-83, 8-13=-20
Concentrated Loads (lb)
Vert: 5=-443
3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-50, 3-4=-50, 4-5=-50, 6-7=-140, 12-13=-35, 12-24=-50, 8-24=-35
Concentrated Loads (lb)
Vert: 5=-424

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	B4	Piggyback Base	5	1	Job Reference (optional)



Scale = 1:74.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.30	8-10	>900	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.59	8-10	>458	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 200 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T2:2x4 SP No.1, T3:2x4 SP DSS
BOT CHORD 2x4 SP DSS
WEBS 2x4 SP No.2 *Except* W9:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 0-0-0 oc purlins (6-0-0 max.): 3-4, 5-8, 5-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-5, 5-7
WEBS 2 Rows at 1/3 pts 5-10

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

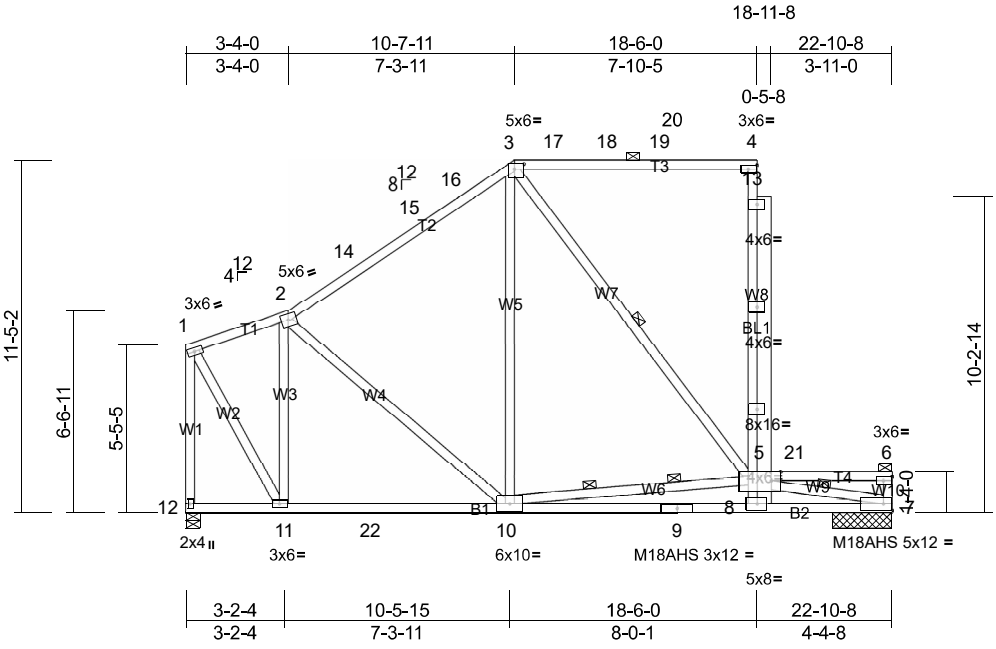
REACTIONS (lb/size) 7=1261/ Mechanical, 12=840/0-5-8, (min. 0-1-8)
Max Horiz 12=511 (LC 17)
Max Uplift 7=-126 (LC 17), 12=-41 (LC 13)
Max Grav 7=1640 (LC 3), 12=1108 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-572/102, 2-14=-892/184, 14-15=-772/194, 15-16=-749/199, 3-16=-711/219, 5-13=-784/194, 4-13=-780/192, 5-21=-321/27, 6-21=-321/27, 6-7=-335/0, 1-12=-1084/195
BOT CHORD 11-12=-471/581, 11-22=-454/798, 10-22=-454/798, 9-10=-800/4024, 8-9=-800/4024, 7-8=-1121/4884
WEBS 2-11=-700/215, 2-10=-48/265, 3-10=-121/694, 3-5=-803/307, 5-10=-3434/737, 1-11=-192/1020, 5-7=-4705/1106

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 14-9-12 to 18-0-0, Interior (1) 18-0-0 to 25-3-11, Exterior(2R) 25-3-11 to 28-3-11, Interior (1) 28-3-11 to 37-4-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 7 and 41 lb uplift at joint 12.
12) Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 523 lb down and 123 lb up at 33-3-0 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: 1-2=-43, 2-3=-43, 3-4=-53, 5-6=-83, 7-12=-20
Concentrated Loads (lb)
Vert: 4=-443
3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-50, 2-3=-50, 3-4=-50, 5-6=-140, 11-12=-35, 11-22=-50, 7-22=-35
Concentrated Loads (lb)
Vert: 4=-424

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	B5	Piggyback Base	1	1	Job Reference (optional)



Scale = 1:74.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.30	8-10	>900	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.59	8-10	>458	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 200 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T2:2x4 SP No.1, T3:2x4 SP DSS
BOT CHORD 2x4 SP DSS
WEBS 2x4 SP No.2
OTHERS 2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 0-0-0 oc purlins (6-0-0 max.): 3-4, 5-8, 5-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-5, 5-7
WEBS 2 Rows at 1/3 pts 5-10

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

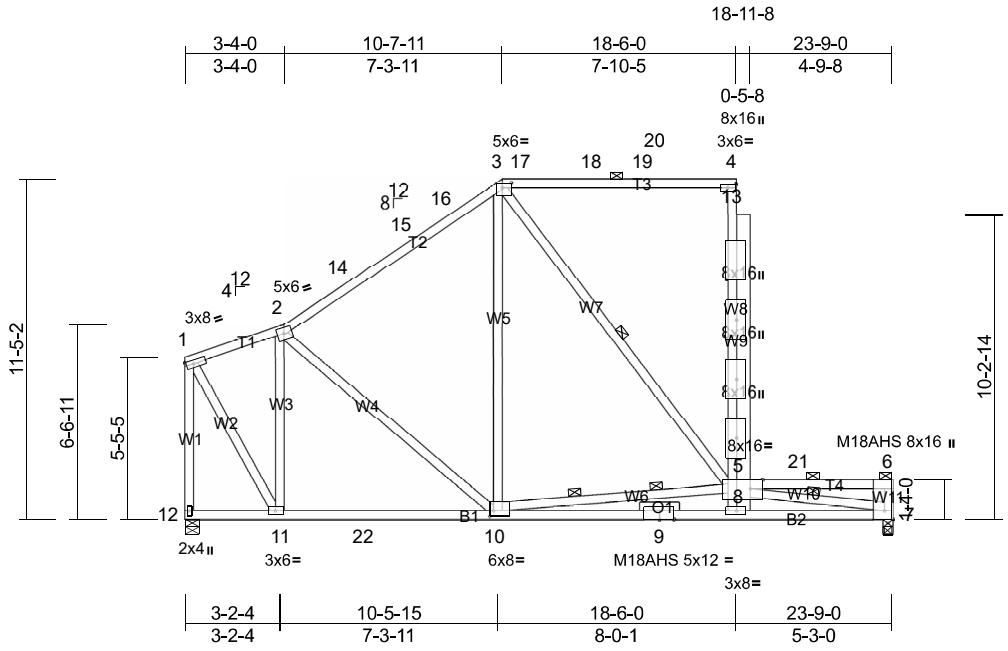
REACTIONS (lb/size) 7=1261/1-11-0, (min. 0-1-15), 12=840/0-5-8, (min. 0-1-8)
Max Horiz 12=511 (LC 17)
Max Uplift 7=-126 (LC 17), 12=-41 (LC 13)
Max Grav 7=1640 (LC 3), 12=1108 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-572/102, 2-14=-892/184, 14-15=-772/194, 15-16=-749/199, 3-16=-711/219, 5-13=-784/194, 4-13=-780/192, 5-21=-321/27, 6-21=-321/27, 6-7=-335/0, 1-12=-1084/195
BOT CHORD 11-12=-471/581, 11-22=-454/798, 10-22=-454/798, 9-10=-800/4024, 8-9=-800/4024, 7-8=-1121/4884
WEBS 2-11=-700/215, 2-10=-48/265, 3-10=-121/694, 3-5=-803/307, 5-10=-3434/737, 1-11=-192/1020, 5-7=-4705/1106

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 14-9-12 to 18-0-0, Interior (1) 18-0-0 to 25-3-11, Exterior(2R) 25-3-11 to 28-3-11, Interior (1) 28-3-11 to 37-4-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain load requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 7 and 41 lb uplift at joint 12.
11) Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 523 lb down and 123 lb up at 33-3-0 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: 1-2=-43, 2-3=-43, 3-4=-53, 5-6=-83, 7-12=-20
Concentrated Loads (lb)
Vert: 4=-443
3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-50, 2-3=-50, 3-4=-50, 5-6=-140, 11-12=-35, 11-22=-50, 7-22=-35
Concentrated Loads (lb)
Vert: 4=-424

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	B6	Piggyback Base	1	1	Job Reference (optional)



Scale = 1:77.5

Plate Offsets (X, Y): [3:0-3-12,0-2-0], [4:Edge,0-1-8], [5:0-5-4,Edge], [5:8-0-9,33-6-0], [6:Edge,0-3-8], [10:0-1-8,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.43	8-10	>653	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.84	8-10	>337	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.09	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 206 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T2,T3:2x4 SP DSS
BOT CHORD 2x4 SP DSS
WEBS 2x4 SP No.2 *Except* W9:2x6 SP No.2
OTHERS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 0-0-0 oc purlins (4-6-8 max.): 3-4, 5-8, 5-6.
BOT CHORD Rigid ceiling directly applied or 6-1-6 oc bracing.
WEBS 1 Row at midpt 3-5, 5-7
WEBS 2 Rows at 1/3 pts 5-10

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

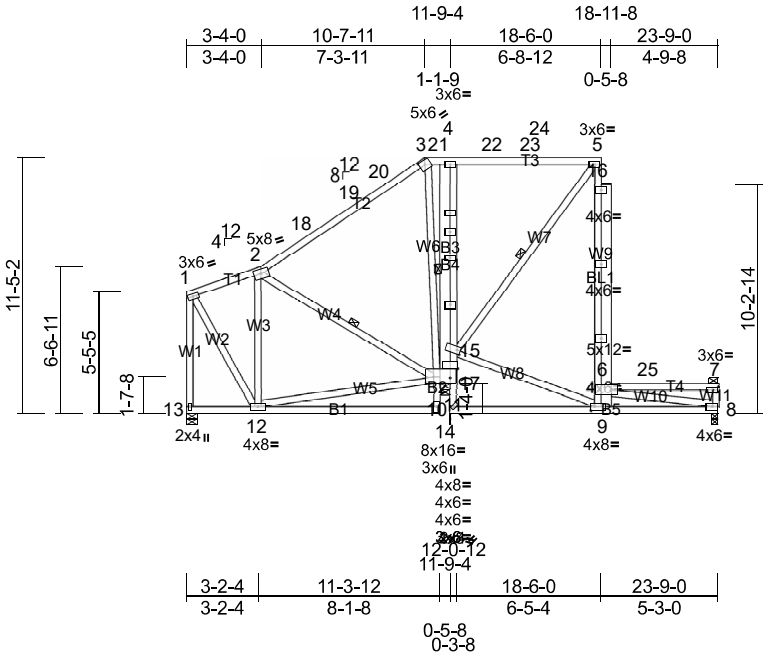
REACTIONS (lb/size) 7=1303/0-3-8, (min. 0-2-1), 12=889/0-5-8, (min. 0-1-8)
Max Horiz 12=511 (LC 17)
Max Uplift 7=-107 (LC 17), 12=-44 (LC 13)
Max Grav 7=1729 (LC 3), 12=1172 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-603/105, 2-14=-959/185, 14-15=-844/195, 15-16=-820/200, 3-16=-783/220, 5-13=-783/189, 4-13=-780/187, 5-21=-432/26, 6-21=-432/26, 6-7=-396/0, 1-12=-1146/195
BOT CHORD 11-12=-471/581, 11-22=-456/818, 10-22=-456/818, 9-10=-906/4890, 8-9=-906/4890, 7-8=-1241/6018
WEBS 2-11=-741/216, 2-10=-32/303, 3-10=-131/778, 3-5=-857/312, 5-10=-4239/765, 1-11=-192/1074, 5-7=-5705/1219

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 14-9-12 to 18-0-0, Interior (1) 18-0-0 to 25-3-11, Exterior(2R) 25-3-11 to 28-3-11, Interior (1) 28-3-11 to 38-3-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 7 and 44 lb uplift at joint 12.
11) Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 523 lb down and 119 lb up at 33-3-0 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: 1-2=-43, 2-3=-43, 3-4=-53, 5-6=-83, 7-12=-20
Concentrated Loads (lb)
Vert: 4=-443
3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-50, 2-3=-50, 3-4=-50, 5-6=-140, 11-12=-35, 11-22=-50, 7-22=-35
Concentrated Loads (lb)
Vert: 4=-424

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	B7	Piggyback Base	1	1	Job Reference (optional)



Scale = 1:103

Plate Offsets (X, Y): [3:0-3-0,0-2-3], [6:0-3-12,0-2-12], [7:Edge,0-1-8], [9:0-1-12,0-2-0], [10:0-1-4,0-1-0], [14:1-0-0,0-3-8], [15:0-6-0,0-2-0], [17:0-4-0,0-5-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.10	11-12	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.21	11-12	>676	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.61	Horz(CT)	-0.03	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 249 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T2,T3:2x4 SP No.1
BOT CHORD 2x4 SP No.2 *Except* B4:2x4 SP No.1, B3:2x6 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals, and 0-0-0 oc purlins (6-0-0 max.): 3-5, 6-9, 6-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
1 Row at midpt 4-14
6-0-0 oc bracing: 14-17
WEBS 1 Row at midpt 5-15, 3-14, 2-14

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

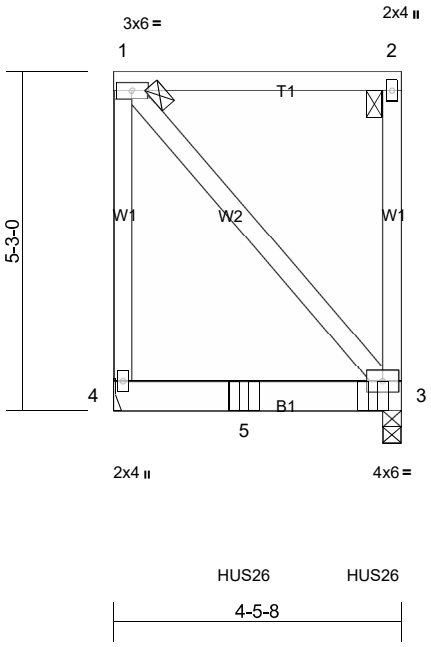
REACTIONS All bearings 0-3-8. except 13=0-5-8, 10=0-0-8, 17=0-5-4
(lb) - Max Horiz 13=511 (LC 17)
Max Uplift All uplift 100 (lb) or less at joint(s) 8 except 13=-343 (LC 57), 17=-279 (LC 13)
Max Grav All reactions 250 (lb) or less at joint (s) 10, 13 except 8=436 (LC 66), 17=2177 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-18=-177/716, 18-19=-152/738, 19-20=-148/746, 3-20=-139/818, 3-21=-61/661, 4-21=-61/661, 4-22=-53/681, 22-23=-53/681, 23-24=-53/681, 5-24=-53/681, 6-16=-27/339, 5-16=-30/341, 7-8=-346/0, 1-13=-175/331
BOT CHORD 12-13=-471/578, 14-17=-1616/379, 14-15=-1603/296, 4-15=-559/168, 9-10=-392/161, 8-9=-403/732
WEBS 9-15=-144/434, 5-15=-1188/257, 3-14=-699/226, 6-8=-620/407, 2-12=-92/531, 1-12=-339/213, 12-14=-482/321, 2-14=-592/236

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 14-9-12 to 18-0-0, Interior (1) 18-0-0 to 25-3-11, Exterior(2R) 25-3-11 to 28-3-11, Interior (1) 28-3-11 to 38-3-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) The Fabrication Tolerance at joint 3 = 4%
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) 17 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 at joint(s) 10.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 8 except (jt=lb) 13=342, 17=278.
13) Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 523 lb down and 119 lb up at 33-3-0 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: 1-2=-43, 2-3=-43, 3-5=-53, 6-7=-83, 11-13=-20, 8-10=-20
Concentrated Loads (lb)
Vert: 5=-443
3) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-50, 2-3=-50, 3-5=-50, 6-7=-140, 11-13=-20, 8-10=-20
Concentrated Loads (lb)
Vert: 5=-424

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	BXR	Flat Girder	1	**2**	Job Reference (optional)



Scale = 1:35.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.02	3-4	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.03	3-4	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 79 lb	FT = 20%

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

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

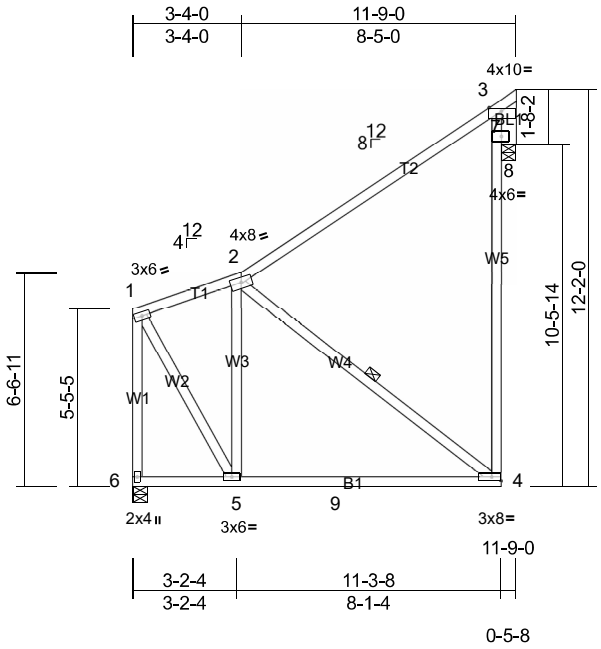
REACTIONS (lb/size) 3=999/0-3-8, (min. 0-1-8), 4=471/ Mechanical
Max Horiz 4=-143 (LC 8)
Max Uplift 3=-242 (LC 9), 4=-162 (LC 8)
Max Grav 3=1246 (LC 2), 4=573 (LC 2)

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

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
6) Unbalanced snow loads have been considered for this design.
7) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
8) Provide adequate drainage to prevent water ponding.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) Refer to girder(s) for truss to truss connections.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 162 lb uplift at joint 4 and 242 lb uplift at joint 3.
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 HUS26 (14-16d Girder, 4-16d Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-4 from the left end to 4-0-4 to connect truss(es) I1 (1 ply 2x4 SP) to back face of bottom chord.
15) Fill all nail holes where hanger is in contact with lumber.
16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 746 lb down and 90 lb up at 4-3-12 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: 1-2=-53, 3-4=-20
Concentrated Loads (lb)
Vert: 3=-586 (B), 5=-579 (B)

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	C1	Roof Special	1	1	Job Reference (optional)



Scale = 1:70.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.15	4-5	>900	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.28	4-5	>492	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.32	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 96 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 2-4

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

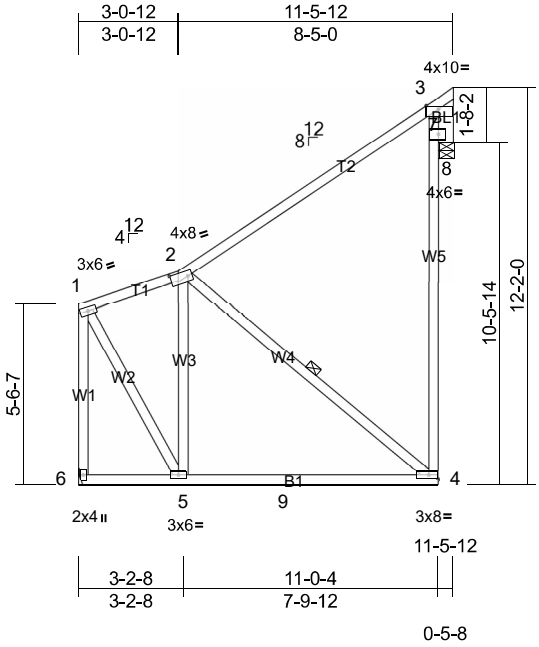
REACTIONS (lb/size) 6=359/0-5-8, (min. 0-1-8), 8=335/0-5-0, (min. 0-1-8)
Max Horiz 6=332 (LC 13)
Max Uplift 6=-62 (LC 12), 8=-163 (LC 13)
Max Grav 6=581 (LC 31), 8=574 (LC 30)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-288/22, 4-8=-204/356, 3-8=-204/356, 1-6=-609/120
BOT CHORD 5-6=-483/379, 5-9=-372/414, 4-9=-372/414
WEBS 2-4=-354/328, 1-5=-108/567, 3-8=-638/388

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 14-9-12 to 18-0-0, Interior (1) 18-0-0 to 25-9-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 6 and 163 lb uplift at joint 8.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	C2	Roof Special	3	1	Job Reference (optional)



Scale = 1:70.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.14	4-5	>983	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.25	4-5	>539	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.33	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 96 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 2-4

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

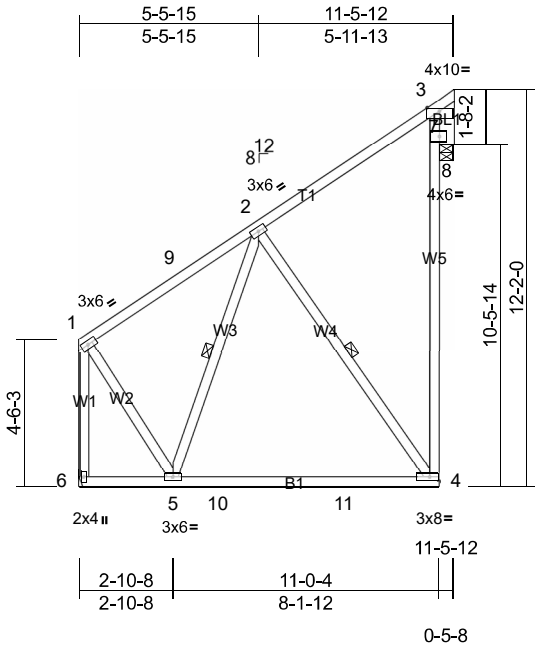
REACTIONS (lb/size) 6=351/ Mechanical, 8=326/0-5-8, (min. 0-1-8)
Max Horiz 6=332 (LC 13)
Max Uplift 6=-61 (LC 12), 8=-166 (LC 13)
Max Grav 6=574 (LC 31), 8=566 (LC 30)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-281/22, 4-8=-206/349, 3-8=-206/349, 1-6=-595/121
BOT CHORD 5-6=-478/380, 5-9=-373/415, 4-9=-373/415
WEBS 2-4=-354/328, 1-5=-116/563, 3-8=-634/388

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 15-1-0 to 18-0-0, Interior (1) 18-0-0 to 25-9-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
9) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 6 and 166 lb uplift at joint 8.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	C3	Roof Special	4	1	Job Reference (optional)



Scale = 1:70.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.20	4-5	>664	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.32	4-5	>411	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	-0.26	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 96 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x6 SP 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.
WEBS 1 Row at midpt 2-5, 2-4

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

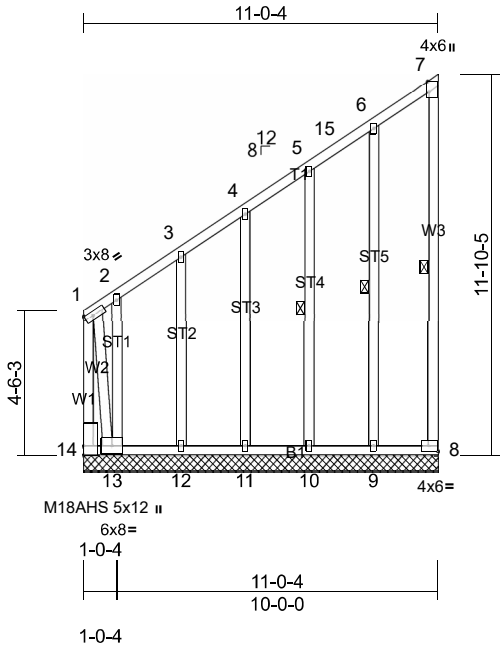
REACTIONS (lb/size) 6=351/ Mechanical, 8=326/0-5-0, (min. 0-1-8)
Max Horiz 6=330 (LC 11)
Max Uplift 8=-164 (LC 11)
Max Grav 6=579 (LC 27), 8=598 (LC 26)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-635/83, 1-9=-336/33, 2-9=-253/53, 4-8=-229/488, 3-8=-229/488
BOT CHORD 5-6=-451/382, 5-10=-264/331, 10-11=-264/331, 4-11=-264/331
WEBS 1-5=-70/455, 2-4=-410/283, 3-8=-625/282

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 5-5-0 to 8-5-0, Interior (1) 8-5-0 to 16-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint 8.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	C4E	Monopitch	1	1	Job Reference (optional)



Scale = 1:71.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.39	Vert(TL)	n/a	-	n/a	999	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	YES	WB	0.67	Horiz(TL)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 120 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* W1:2x4 SP DSS
OTHERS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
7-4-11 oc bracing: 13-14.
WEBS 1 Row at midpt 7-8, 6-9, 5-10

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

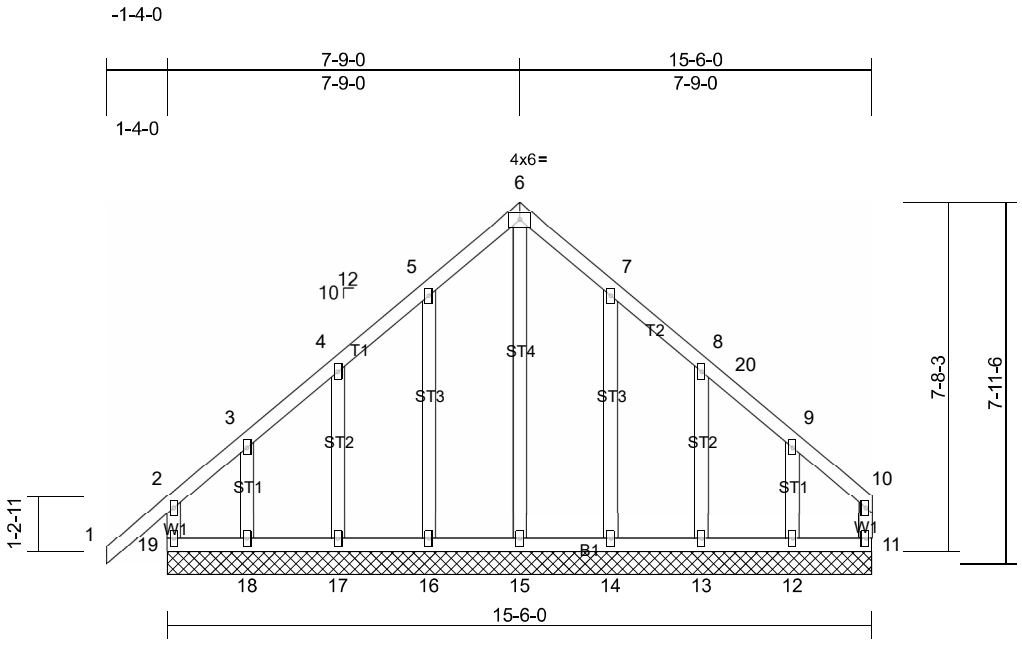
REACTIONS All bearings 11-0-4.
(lb) - Max Horiz 14=344 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s) 8, 9, 10, 11, 12 except 13=-1307 (LC 11), 14=-1040 (LC 12)
Max Grav All reactions 250 (lb) or less at joint (s) 8, 9, 10, 11, 12 except 13=1041 (LC 12), 14=1451 (LC 11)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-449/315, 2-3=-488/355, 3-4=-370/286, 4-5=-313/260, 1-14=-2918/2027
BOT CHORD 13-14=-571/470
WEBS 1-13=-1936/2776

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 5-5-0 to 8-3-8, Exterior(2N) 8-3-8 to 16-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) All plates are MT20 plates unless otherwise indicated.
7) All plates are 2x4 (||) MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * 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.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 8, 9, 10, 11, 12 except (jt=lb) 14=1040, 13=1306.
14) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	D1E	Common Supported Gable	1	1	Job Reference (optional)



Scale = 1:50.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.00	11	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 103 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP 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.

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

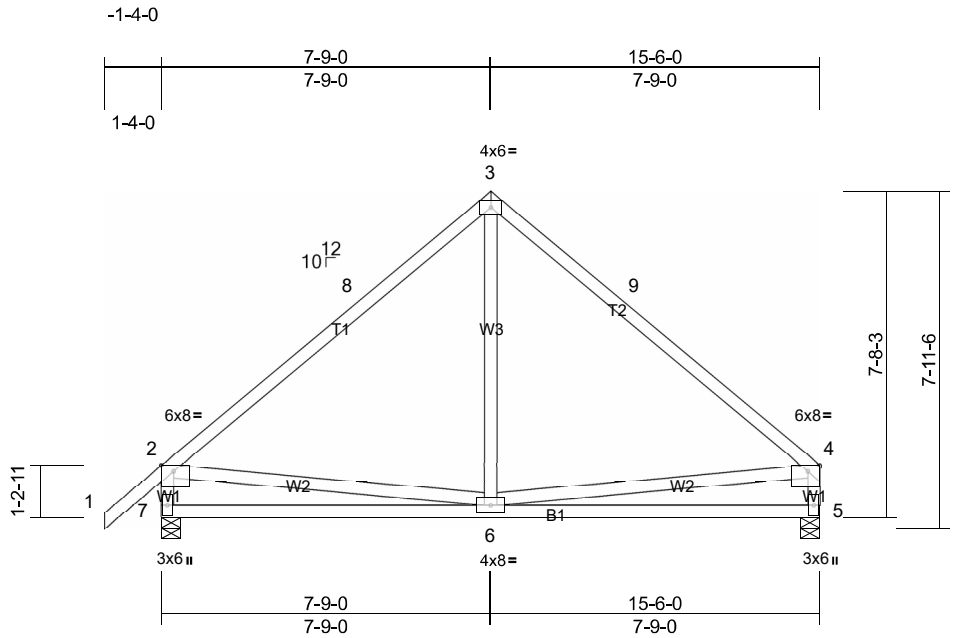
REACTIONS All bearings 15-6-0.
(lb) - Max Horiz 19=173 (LC 13)
Max Uplift All uplift 100 (lb) or less at joint(s) 11, 13, 14, 16, 17, 19 except 12=-112 (LC 15), 18=-117 (LC 14)
Max Grav All reactions 250 (lb) or less at joint (s) 11, 12, 13, 14, 15, 16, 17, 18, 19

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-131/258, 6-7=-131/258
WEBS 6-15=-266/76

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-4-0 to 1-9-0, Exterior(2N) 1-9-0 to 7-9-0, Corner(3R) 7-9-0 to 10-9-0, Exterior(2N) 10-9-0 to 15-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) All plates are 2x4 (||) MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * 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.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 19, 11, 16, 17, 14, 13 except (jt=lb) 18=116, 12=112.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	D2	Common	4	1	Job Reference (optional)



Scale = 1:54.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.07	6-7	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.14	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 91 lb	FT = 20%

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

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

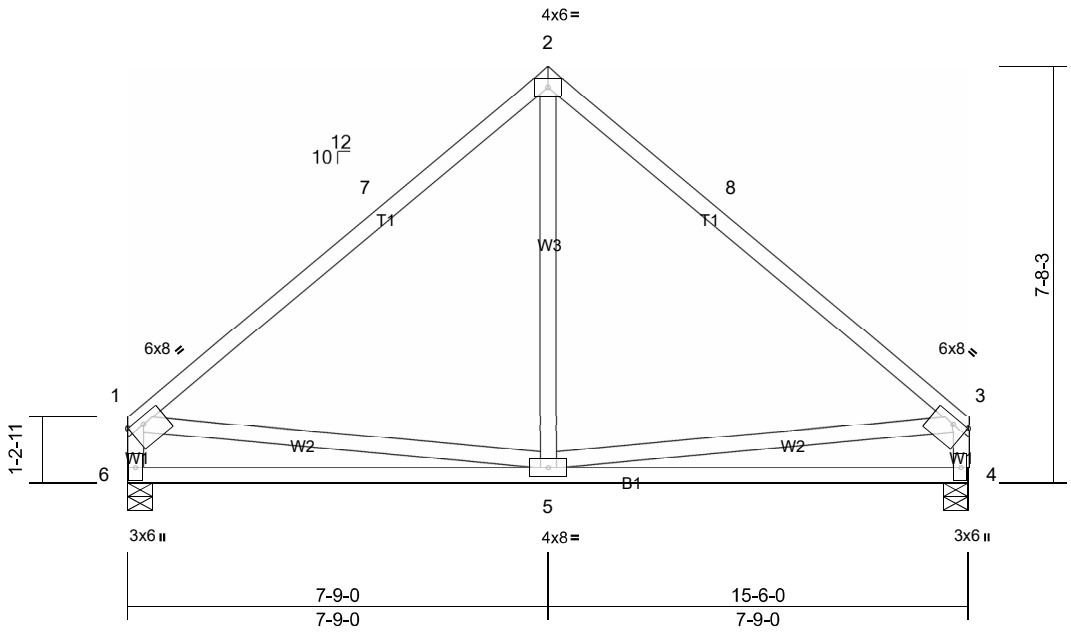
REACTIONS (lb/size) 5=477/0-5-8, (min. 0-1-8), 7=547/0-5-8, (min. 0-1-8)
Max Horiz 7=173 (LC 13)
Max Uplift 5=-53 (LC 15), 7=-75 (LC 14)
Max Grav 5=604 (LC 2), 7=701 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-613/94, 3-8=-436/122, 3-9=-426/117, 4-9=-603/87, 2-7=-634/146, 4-5=-537/100
BOT CHORD 6-7=-260/431
WEBS 3-6=0/314, 2-6=-122/270

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 7-9-0, Exterior(2R) 7-9-0 to 10-9-0, Interior (1) 10-9-0 to 15-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 75 lb uplift at joint 7 and 53 lb uplift at joint 5.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	D3	Common	3	1	Job Reference (optional)



Scale = 1:42.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.07	5-6	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.14	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 88 lb	FT = 20%

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

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

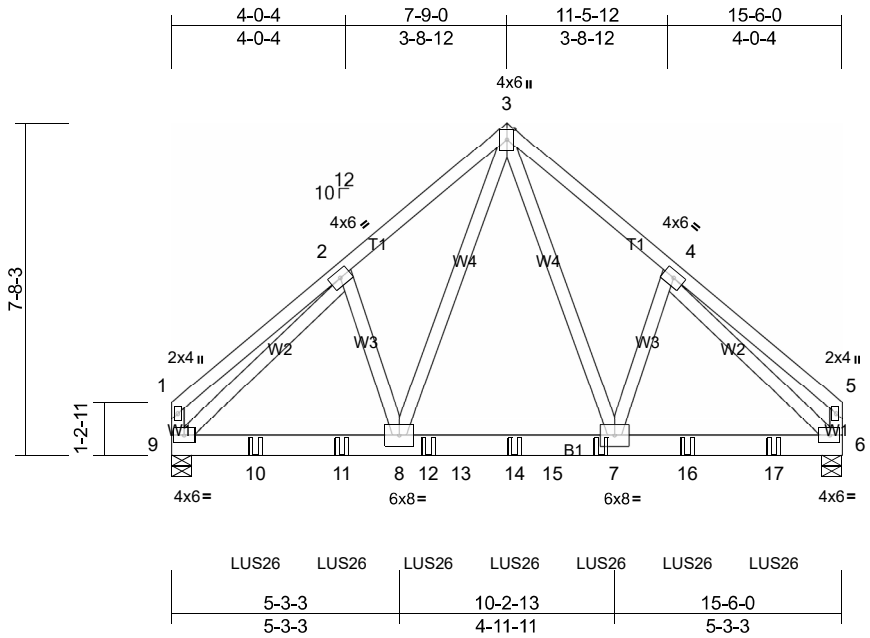
REACTIONS (lb/size) 4=480/0-5-8, (min. 0-1-8), 6=480/0-5-8, (min. 0-1-8)
Max Horiz 6=-156 (LC 10)
Max Uplift 4=-53 (LC 15), 6=-53 (LC 14)
Max Grav 4=608 (LC 2), 6=608 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-7=-610/88, 2-7=-433/118, 2-8=-433/118, 3-8=-610/88, 1-6=-541/100, 3-4=-541/100
BOT CHORD 5-6=-196/348
WEBS 2-5=0/310

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 7-9-0, Exterior(2R) 7-9-0 to 10-9-0, Interior (1) 10-9-0 to 15-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 53 lb uplift at joint 6 and 53 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	D4G	Common Girder	1	2	Job Reference (optional)



Scale = 1:53.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.03	6-7	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.05	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.01	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 235 lb	FT = 20%

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

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

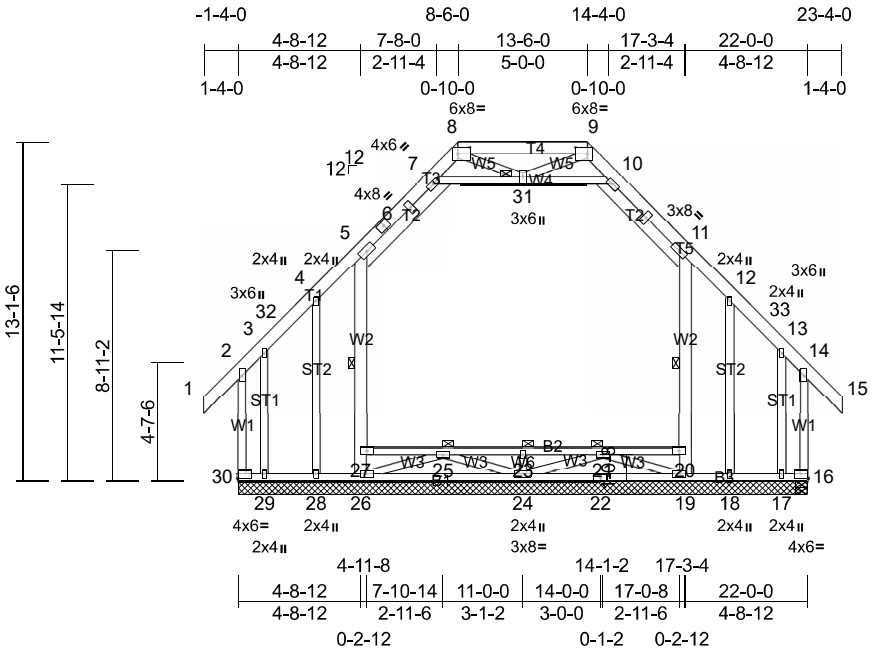
REACTIONS (lb/size) 6=1795/0-5-8, (min. 0-1-9), 9=1636/0-5-8, (min. 0-1-8)
Max Horiz 9=154 (LC 9)
Max Uplift 6=-91 (LC 11)
Max Grav 6=2613 (LC 22), 9=2506 (LC 21)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-617/25, 2-3=-2523/0, 3-4=-2543/118, 4-5=-648/119, 1-9=-470/34, 5-6=-490/95
BOT CHORD 9-10=0/1920, 10-11=0/1920, 8-11=0/1920, 8-12=0/1437, 12-13=0/1437, 13-14=0/1437, 14-15=0/1437, 7-15=0/1437, 7-16=0/1867, 16-17=0/1867, 6-17=0/1867
WEBS 3-7=-222/1631, 4-7=-42/290, 3-8=0/1585, 2-8=-31/291, 2-9=-2137/0, 4-6=-2125/0

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 6.
10) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-11-4 from the left end to 13-11-4 to connect truss(es) C3 (1 ply 2x4 SP), C2 (1 ply 2x4 SP) to back face of bottom chord.
11) 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: 1-3=-43, 3-5=-43, 6-9=-20
Concentrated Loads (lb)
Vert: 7=-383, 10=-331, 11=-331, 12=-331, 14=-331, 16=-383, 17=-383

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	E1E	Attic	1	1	Job Reference (optional)



Scale = 1:89.2

Plate Offsets (X, Y): [8:0-5-8,0-3-0], [9:0-5-8,0-3-0], [16:Edge,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.02	19-24	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.05	19-24	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.01	16	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS		Attic	-0.02	20-27	>999	360		
BCDL	10.0										Weight: 275 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* W2:2x6 SP No.2
OTHERS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 0-0-0 oc purlins (6-0-0 max.): 8-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-27, 11-20
JOINTS 1 Brace at Jt(s): 31, 23, 21, 25

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

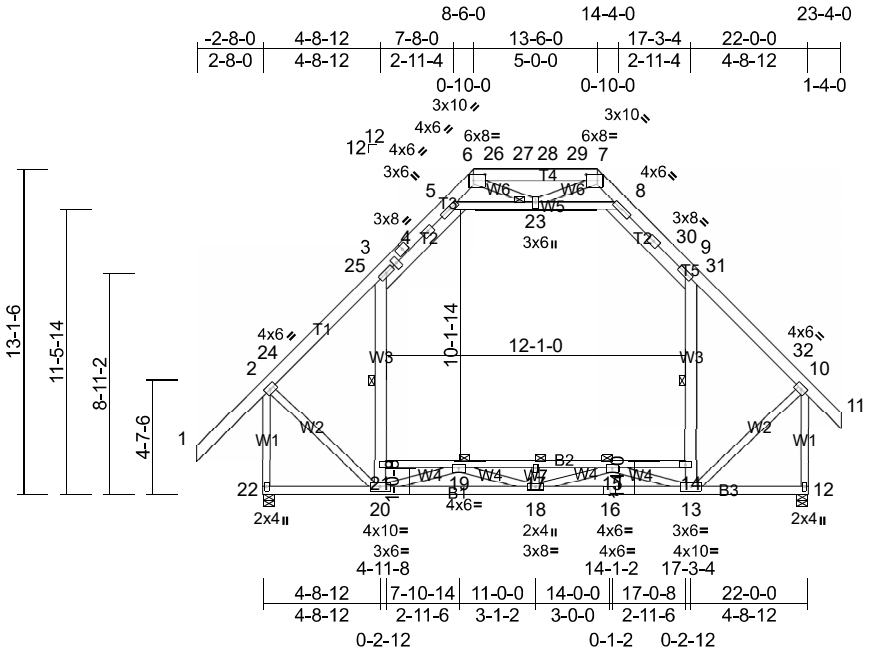
REACTIONS All bearings 22-0-0.
(lb) - Max Horiz 30=-324 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) except 16=-492 (LC 11), 17=-485 (LC 10), 18=-194 (LC 30), 28=-199 (LC 29), 29=-491 (LC 11), 30=-498 (LC 10)
Max Grav All reactions 250 (lb) or less at joint (s) 18, 28 except 16=571 (LC 27), 17=569 (LC 13), 19=1061 (LC 29), 24=939 (LC 21), 26=1064 (LC 30), 29=575 (LC 12), 30=576 (LC 28)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-64/374, 5-6=-266/224, 7-8=-593/29, 8-9=-655/0, 9-10=-595/29, 10-11=-325/240, 11-12=-64/380, 2-30=-345/248, 14-16=-342/245
BOT CHORD 24-26=-200/517, 22-24=0/400, 19-22=0/400, 25-27=-291/320, 23-25=-37/286, 21-23=-37/286, 20-21=-299/329
WEBS 26-27=-847/0, 5-27=-796/0, 19-20=-843/0, 11-20=-787/0, 7-31=0/646, 10-31=0/648, 23-24=-354/0, 21-24=-708/40, 19-21=-471/63, 24-25=-716/100, 25-26=-537/145

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-4-0 to 1-8-0, Exterior(2N) 1-8-0 to 8-6-0, Corner(3R) 8-6-0 to 11-6-0, Exterior(2N) 11-6-0 to 13-6-0, Corner(3R) 13-6-0 to 16-6-0, Exterior(2N) 16-6-0 to 23-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) Provide adequate drainage to prevent water ponding.
8) All plates are 3x6 (=) MT20 unless otherwise indicated.
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * 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.
12) Ceiling dead load (5.0 psf) on member(s). 5-7, 10-11, 7-31, 10-31; Wall dead load (5.0psf) on member(s).5-27, 11-20
13) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 25-27, 23-25, 21-23, 20-21
14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 498 lb uplift at joint 30, 492 lb uplift at joint 16, 198 lb uplift at joint 28, 490 lb uplift at joint 29, 194 lb uplift at joint 18 and 485 lb uplift at joint 17.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	E2	Attic	3	1	Job Reference (optional)



Scale = 1:93.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.16	17-19	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.27	15-17	>959	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.05	12	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS		Attic	-0.11	14-21	>999	360		
BCDL	10.0										Weight: 262 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* W3:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 0-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 3-7-0 oc bracing.
WEBS 1 Row at midpt 3-21, 9-14
JOINTS 1 Brace at Jt(s): 23, 17, 15, 19

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

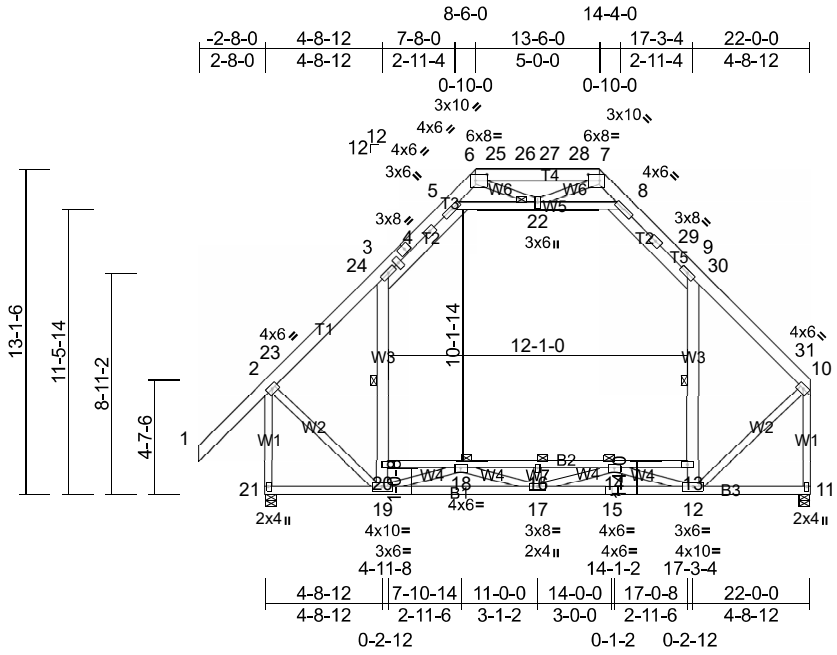
REACTIONS (lb/size) 12=1097/0-5-8, (min. 0-1-14), 22=1166/0-5-8, (min. 0-2-0)
Max Horiz 22=342 (LC 15)
Max Grav 12=1614 (LC 48), 22=1673 (LC 48)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-24=-1126/0, 24-25=-951/30, 3-25=-930/30, 3-4=-791/75, 4-5=-596/105, 5-6=-297/375, 6-26=-186/506, 26-27=-186/506, 27-28=-186/506, 28-29=-186/506, 7-29=-186/506, 7-8=-299/367, 8-30=-628/114, 9-30=-765/84, 9-31=-926/17, 31-32=-956/17, 10-32=-1121/0, 2-22=-1643/7, 10-12=-1581/0
BOT CHORD 20-22=-325/302, 18-20=0/2247, 16-18=0/2239, 13-16=0/2239, 19-21=-252/335, 17-19=-2271/0, 15-17=-2271/0, 14-15=-272/319
WEBS 3-21=-132/432, 9-14=-142/429, 5-23=-1345/223, 8-23=-1329/221, 2-20=0/993, 10-13=0/975, 17-18=-321/0, 15-18=-39/675, 13-15=-1867/0, 18-19=-29/688, 19-20=-1876/0

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-8-0 to 0-1-12, Interior (1) 0-1-12 to 8-6-0, Exterior(2R) 8-6-0 to 11-6-0, Interior (1) 11-6-0 to 13-6-0, Exterior(2R) 13-6-0 to 16-6-0, Interior (1) 16-6-0 to 23-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Ceiling dead load (5.0 psf) on member(s). 3-5, 8-9, 5-23, 8-23; Wall dead load (5.0psf) on member(s).3-21, 9-14
11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 19-21, 17-19, 15-17, 14-15
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	E3	Attic	3	1	Job Reference (optional)



Scale = 1:93.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.16	16-18	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.27	14-16	>957	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.05	11	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS		Attic	-0.11	13-20	>999	360		
BCDL	10.0										Weight: 257 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* W3:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 0-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 3-7-0 oc bracing.
WEBS 1 Row at midpt 3-20, 9-13
JOINTS 1 Brace at Jt(s): 22, 18, 16, 14

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

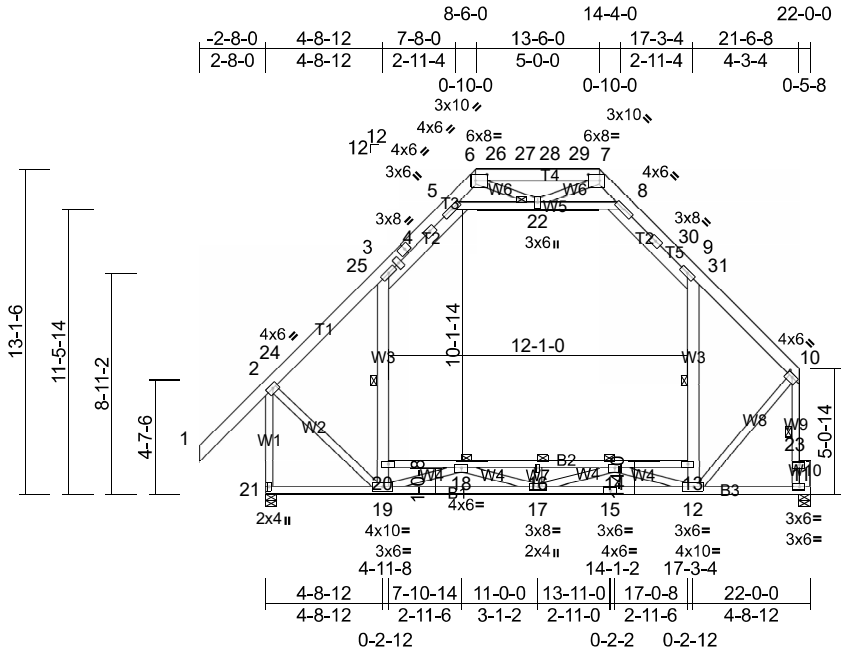
REACTIONS (lb/size) 11=1031/0-5-8, (min. 0-1-13), 21=1168/0-5-8, (min. 0-2-0)
Max Horiz 21=332 (LC 13)
Max Grav 11=1557 (LC 48), 21=1675 (LC 48)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-23=-1128/0, 23-24=-953/24, 3-24=-932/24, 3-4=-793/70, 4-5=-598/100, 5-6=-293/381, 6-25=-181/515, 25-26=-181/515, 26-27=-181/515, 27-28=-181/515, 7-28=-181/515, 7-8=-295/372, 8-29=-629/112, 9-29=-766/81, 9-30=-924/1, 30-31=-964/0, 10-31=-1120/0, 2-21=-1646/2, 10-11=-1524/0
BOT CHORD 19-21=-315/282, 17-19=0/2232, 15-17=0/2243, 12-15=0/2243, 18-20=-245/344, 16-18=-2271/0, 14-16=-2271/0, 13-14=-280/308
WEBS 3-20=-132/433, 9-13=-148/425, 5-22=-1354/207, 8-22=-1339/219, 2-19=0/995, 10-12=0/963, 18-19=-1879/0, 17-18=-26/694, 16-17=-321/0, 14-17=-42/669, 12-14=-1864/0

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-8-0 to 0-1-12, Interior (1) 0-1-12 to 8-6-0, Exterior(2R) 8-6-0 to 11-6-0, Interior (1) 11-6-0 to 13-6-0, Exterior(2R) 13-6-0 to 16-6-0, Interior (1) 16-6-0 to 21-10-4 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
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Ceiling dead load (5.0 psf) on member(s). 3-5, 8-9, 5-22, 8-22; Wall dead load (5.0psf) on member(s).3-20, 9-13
11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 18-20, 16-18, 14-16, 13-14
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	E4	Attic	3	1	Job Reference (optional)



Scale = 1:93.1

Plate Offsets (X, Y): [6:0-5-8,0-3-0], [7:0-5-8,0-3-0], [10:0-3-0,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.16	16-18	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.27	16-18	>958	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.05	11	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS		Attic	-0.11	13-20	>999	360		
BCDL	10.0										Weight: 259 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* W3,W10:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-11-10 oc purlins, except end verticals, and 0-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 3-7-2 oc bracing.
WEBS 1 Row at midpt 3-20, 9-13, 10-11
JOINTS 1 Brace at Jt(s): 18, 16, 14, 22

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

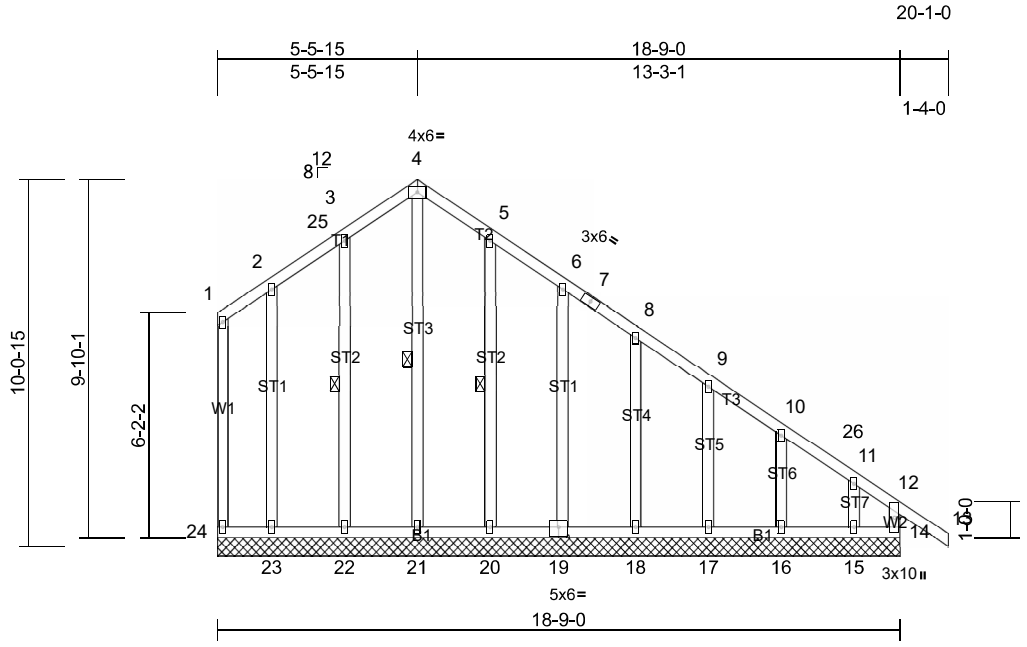
REACTIONS (lb/size) 11=1018/0-5-8, (min. 0-1-13), 21=1157/0-5-8, (min. 0-1-15)
Max Horiz 21=337 (LC 15)
Max Grav 11=1558 (LC 48), 21=1659 (LC 48)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-24=-1114/0, 24-25=-934/21, 3-25=-918/21, 3-4=-775/72, 4-5=-584/102, 5-6=-313/342, 6-26=-206/463, 26-27=-206/463, 27-28=-206/463, 28-29=-206/463, 7-29=-206/463, 7-8=-310/346, 8-30=-618/110, 9-30=-755/80, 9-31=-906/13, 10-31=-1095/4, 2-21=-1626/4, 11-23=-1537/0, 10-23=-1549/0
BOT CHORD 19-21=-320/282, 17-19=0/2232, 15-17=0/2197, 12-15=0/2197, 18-20=-249/293, 16-18=-2260/0, 14-16=-2260/0, 13-14=-267/355
WEBS 3-20=-134/431, 9-13=-146/420, 5-22=-1276/190, 8-22=-1286/220, 2-19=0/976, 18-19=-1849/0, 17-18=-29/660, 16-17=-321/0, 14-17=-36/693, 12-14=-1888/0, 10-12=0/925

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-8-0 to 0-1-12, Interior (1) 0-1-12 to 8-6-0, Exterior(2R) 8-6-0 to 11-6-0, Interior (1) 11-6-0 to 13-6-0, Exterior(2R) 13-6-0 to 16-6-0, Interior (1) 16-6-0 to 21-4-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Ceiling dead load (5.0 psf) on member(s). 3-5, 8-9, 5-22, 8-22; Wall dead load (5.0psf) on member(s).3-20, 9-13
11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 18-20, 16-18, 14-16, 13-14
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	F1E	Common Supported Gable	1	1	Job Reference (optional)



Scale = 1:63.3

Plate Offsets (X, Y): [19:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	14	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 150 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-21, 3-22, 5-20

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

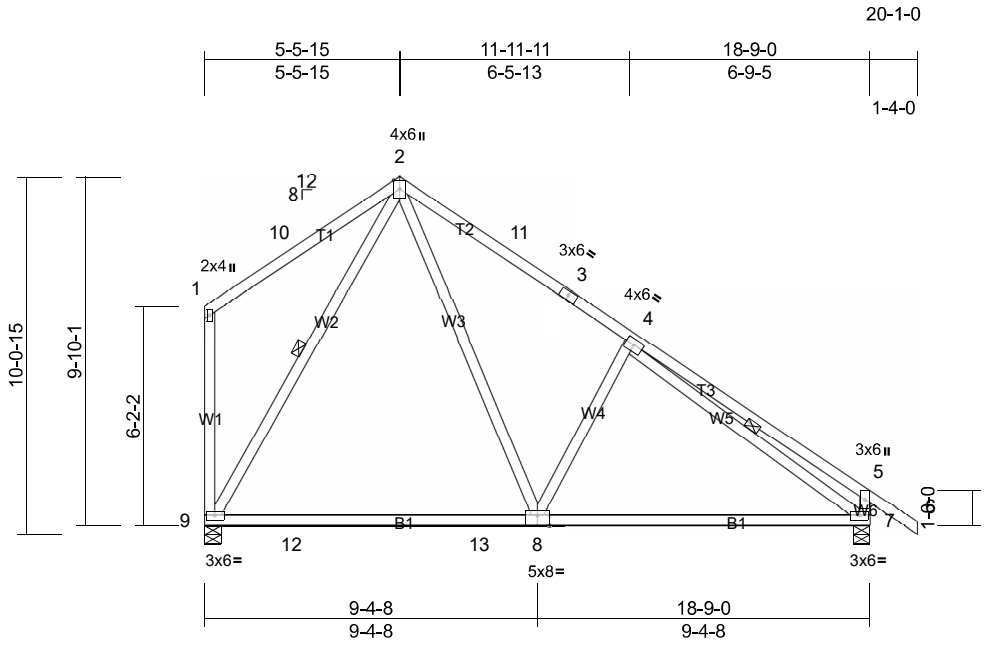
REACTIONS All bearings 18-9-0.
(lb) - Max Horiz 24=-265 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 16, 17, 18, 19, 20, 21, 22, 23, 24 except 14=-178 (LC 11), 15=-203 (LC 10)
Max Grav All reactions 250 (lb) or less at joint (s) 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 except 14=332 (LC 26)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-173/259, 4-5=-172/259, 11-12=-306/252, 12-14=-260/161
BOT CHORD 23-24=-185/281, 22-23=-185/281, 21-22=-185/281, 20-21=-185/281, 19-20=-185/281, 18-19=-183/280, 17-18=-183/280, 16-17=-183/280, 15-16=-183/280, 14-15=-183/280

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 7-10-15 to 10-10-15, Exterior(2N) 10-10-15 to 13-3-2, Corner(3R) 13-3-2 to 16-3-2, Exterior(2N) 16-3-2 to 27-10-3 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) All plates are 2x4 (||) MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * 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.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 24, 21, 22, 23, 20, 19, 18, 17, 16 except (jt=lb) 14=178, 15=202.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	F2	Common	4	1	Job Reference (optional)



Scale = 1:65

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.32	8-9	>694	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.47	8-9	>474	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 124 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-7, 2-9

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

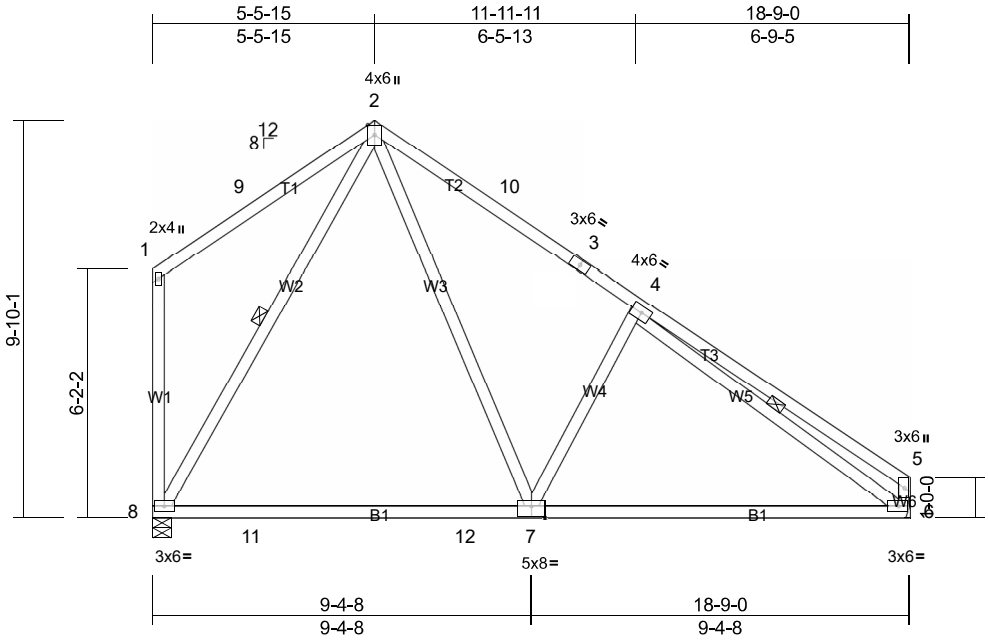
REACTIONS (lb/size) 7=649/0-5-8, (min. 0-1-8), 9=580/0-5-8, (min. 0-1-8)
Max Horiz 9=-265 (LC 12)
Max Uplift 7=-99 (LC 15), 9=-95 (LC 15)
Max Grav 7=921 (LC 27), 9=885 (LC 27)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-726/191, 3-11=-727/171, 3-4=-828/152, 4-5=-470/173, 5-7=-474/162
BOT CHORD 9-12=-25/416, 12-13=-25/416, 8-13=-25/416, 7-8=-18/743
WEBS 4-7=-613/20, 2-9=-701/143, 2-8=-131/771, 4-8=-329/207

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 7-10-15 to 10-10-15, Interior (1) 10-10-15 to 13-3-2, Exterior(2R) 13-3-2 to 16-3-2, Interior (1) 16-3-2 to 27-10-3 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
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 99 lb uplift at joint 7 and 95 lb uplift at joint 9.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	F3	Common	5	1	Job Reference (optional)



Scale = 1:57.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.32	7-8	>695	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.47	7-8	>474	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.01	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 122 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-11-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-6, 2-8

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

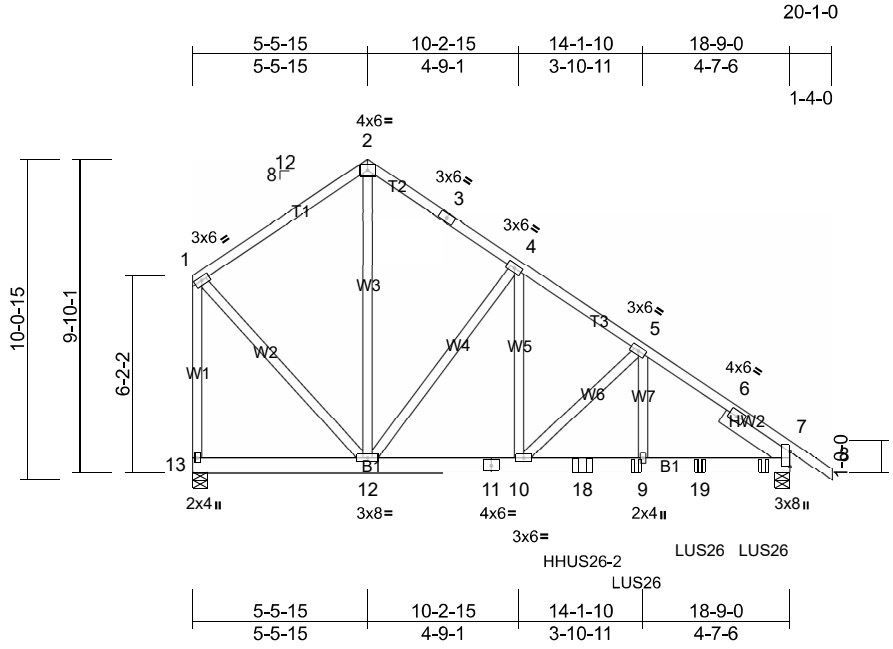
REACTIONS (lb/size) 6=582/ Mechanical, 8=582/0-5-8, (min. 0-1-8)
Max Horiz 8=-252 (LC 10)
Max Uplift 6=-77 (LC 15), 8=-95 (LC 15)
Max Grav 6=836 (LC 26), 8=888 (LC 26)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-733/194, 3-10=-736/174, 3-4=-837/155, 4-5=-427/130, 5-6=-358/111
BOT CHORD 8-11=-33/407, 11-12=-33/407, 7-12=-33/407, 6-7=-62/742
WEBS 4-6=-644/43, 2-8=-704/143, 2-7=-134/782, 4-7=-342/211

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 7-10-15 to 10-10-15, Interior (1) 10-10-15 to 13-3-2, Exterior(2R) 13-3-2 to 16-3-2, Interior (1) 16-3-2 to 26-4-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 6 and 95 lb uplift at joint 8.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	F4G	Common Girder	1	2	Job Reference (optional)



Scale = 1:72.4

Plate Offsets (X, Y): [7:Edge,0-0-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.03	9-10	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.06	9-10	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 302 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
SLIDER Right 2x6 SP No.2 -- 2-6-0

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

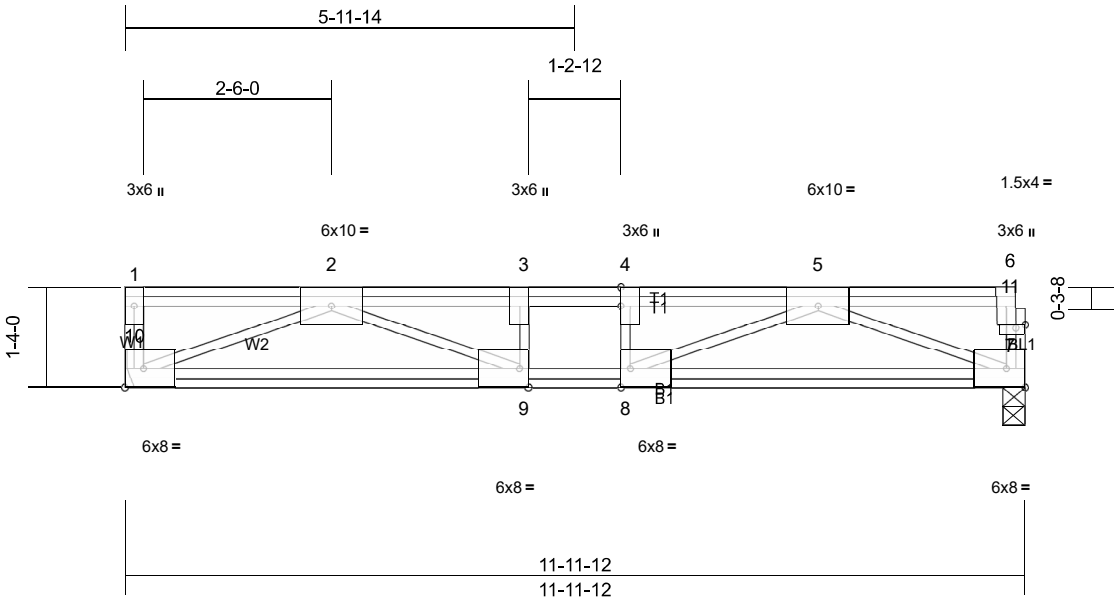
REACTIONS (lb/size) 7=2210/0-5-8, (min. 0-1-8), 13=967/0-5-8, (min. 0-1-8)
Max Horiz 13=-257 (LC 8)
Max Uplift 7=-368 (LC 11), 13=-184 (LC 11)
Max Grav 7=2393 (LC 2), 13=1135 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-727/201, 2-3=-641/182, 3-4=-724/166, 4-5=-1501/299, 5-6=-2416/432, 6-7=-1315/160, 1-13=-1081/201
BOT CHORD 11-12=-98/1221, 10-11=-98/1221, 10-18=-264/1951, 9-18=-264/1951, 9-19=-264/1951, 7-19=-264/1951
WEBS 2-12=-138/463, 4-12=-1148/328, 1-12=-114/772, 4-10=-232/1066, 5-10=-1008/249, 5-9=-191/1100

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
7) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 184 lb uplift at joint 13 and 368 lb uplift at joint 7.
11) Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 4-10d Truss) or equivalent at 20-0-1 from the left end to connect truss(es) BXR (2 ply 2x6 SP) to back face of bottom chord.
12) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 21-8-7 from the left end to 25-8-7 to connect truss(es) H3 (1 ply 2x4 SP), H2 (1 ply 2x4 SP), H1 (1 ply 2x4 SP) 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: 1-2=-43, 2-8=-43, 13-14=-20
Concentrated Loads (lb)
Vert: 9=-545 (B), 16=-448 (B), 18=-451 (B), 19=-501 (B)

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	FG1	Floor Girder	1	1	Job Reference (optional)



Scale = 1:30.7

Plate Offsets (X, Y): [4:0-3-0,Edge], [8:0-1-8,Edge], [9:0-1-8,Edge], [11:0-1-8,0-0-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.62	Vert(LL)	-0.15	8-9	>921	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.21	8-9	>673	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.04	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 94 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

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

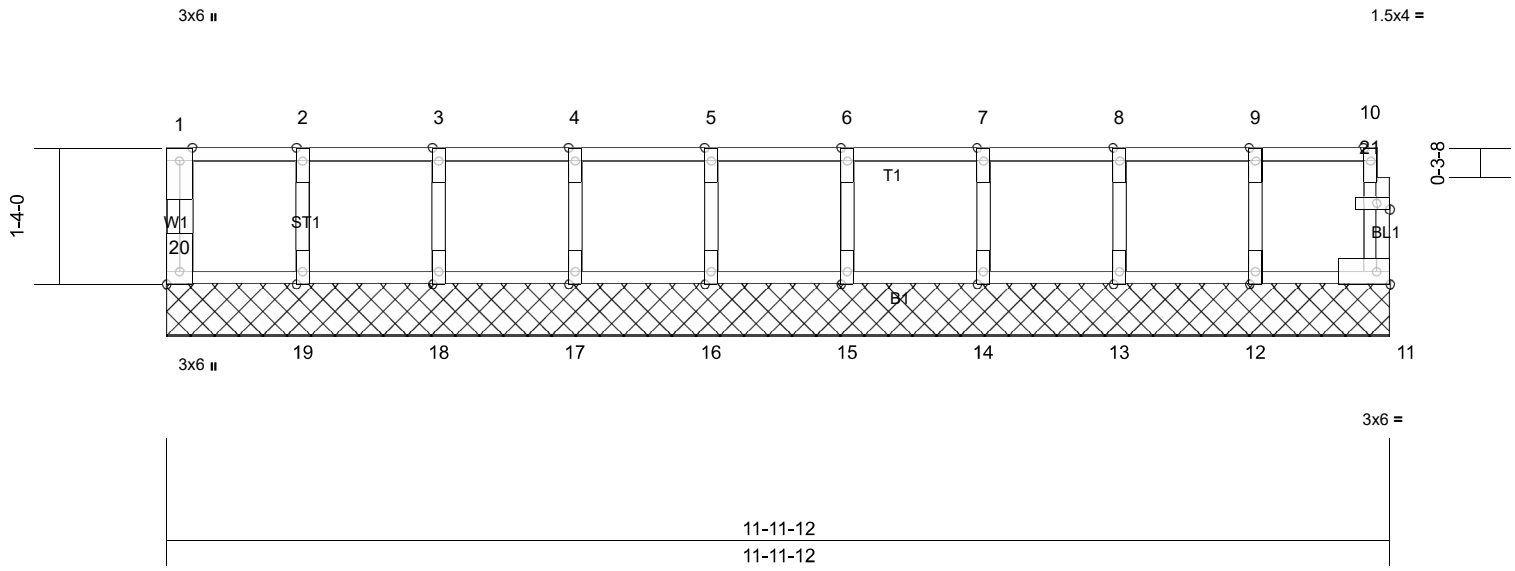
REACTIONS (lb/size) 7=2158/0-3-8, (min. 0-1-8), 10=2158/ Mechanical

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-388/0, 7-11=-381/0, 6-11=-381/0, 2-3=-5759/0, 3-4=-5759/0, 4-5=-5759/0
BOT CHORD 9-10=0/4209, 8-9=0/5759, 7-8=0/4380
WEBS 5-7=-4674/0, 2-10=-4554/0, 5-8=0/1860, 2-9=0/1954, 3-9=-631/0, 4-8=-665/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 7-10=-10, 1-6=-360

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	FL1	Floor Supported Gable	1	1	Job Reference (optional)



Scale = 1:22.6

Plate Offsets (X, Y): [20:Edge,0-1-8], [21:0-1-8,0-0-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 55 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

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

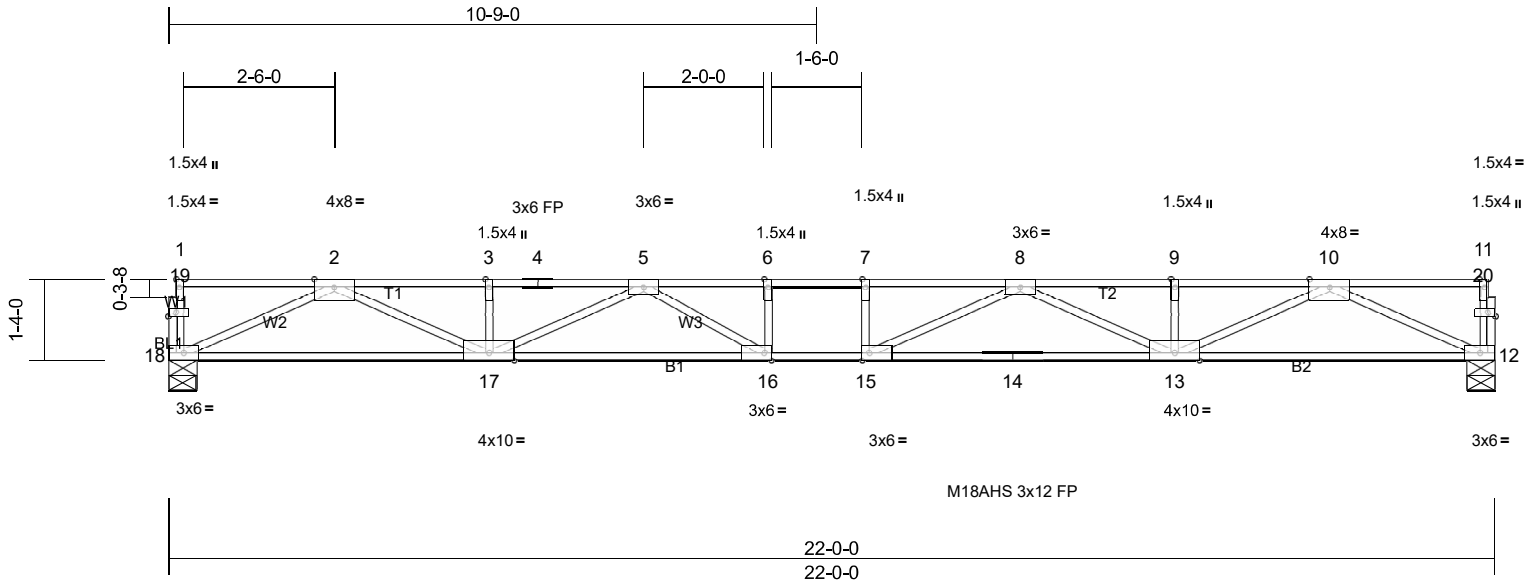
REACTIONS All bearings 11-11-12.
(lb) - Max Grav All reactions 250 (lb) or less at joint (s) 11, 12, 13, 14, 15, 16, 17, 18, 19, 20

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

NOTES
1) All plates are 1.5x4 (||) MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	FT1	Floor	3	1	Job Reference (optional)



Scale = 1:38.2

Plate Offsets (X, Y): [1:Edge,0-0-12], [15:0-1-8,Edge], [16:0-1-8,Edge], [19:0-1-8,0-0-12], [20:0-1-8,0-0-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.83	Vert(LL)	-0.49	13-15	>532	480	M18AHS	186/179
TCDL	10.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.68	13-15	>383	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.10	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 109 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat) *Except* T2:2x4 SP No.1 (flat)
BOT CHORD 2x4 SP DSS(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

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.

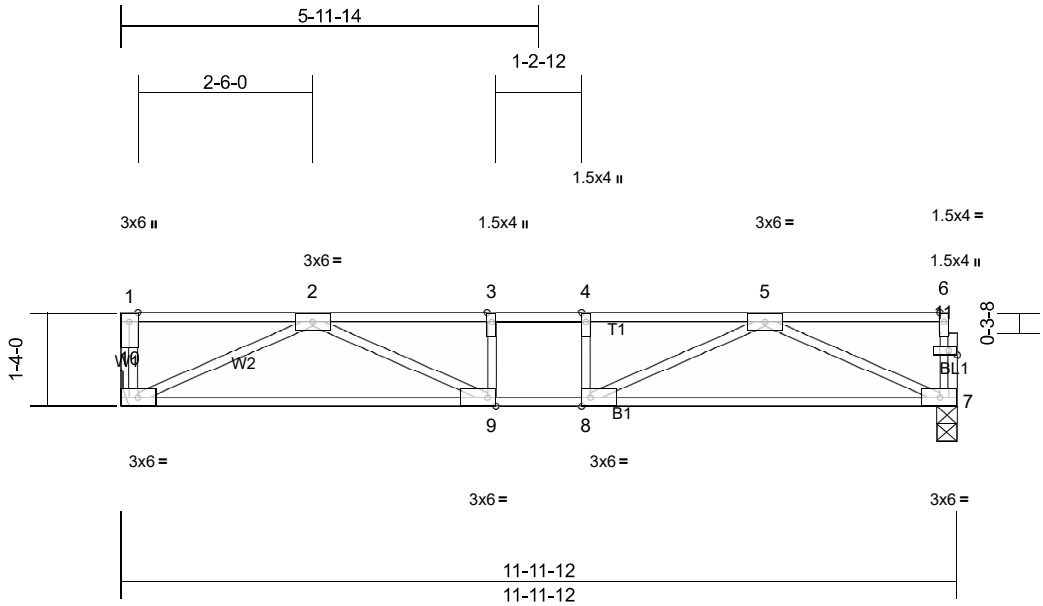
REACTIONS (lb/size) 12=1190/0-5-8, (min. 0-1-8), 18=1190/0-5-8, (min. 0-1-8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3955/0, 3-4=-3955/0, 4-5=-3955/0, 5-6=-5364/0, 6-7=-5364/0, 7-8=-5364/0, 8-9=-3959/0, 9-10=-3959/0
BOT CHORD 17-18=0/2316, 16-17=0/4955, 15-16=0/5364, 14-15=0/4961, 13-14=0/4961, 12-13=0/2319
WEBS 10-12=-2548/0, 2-18=-2543/0, 10-13=0/1813, 2-17=0/1813, 8-13=-1107/0, 5-17=-1106/0, 8-15=-97/838, 5-16=-72/833, 6-16=-286/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	FT2	Floor	8	1	Job Reference (optional)



Scale = 1:33

Plate Offsets (X, Y): [8:0-1-8,Edge], [9:0-1-8,Edge], [11:0-1-8,0-0-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.11	7-8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.18	9-10	>773	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 61 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

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

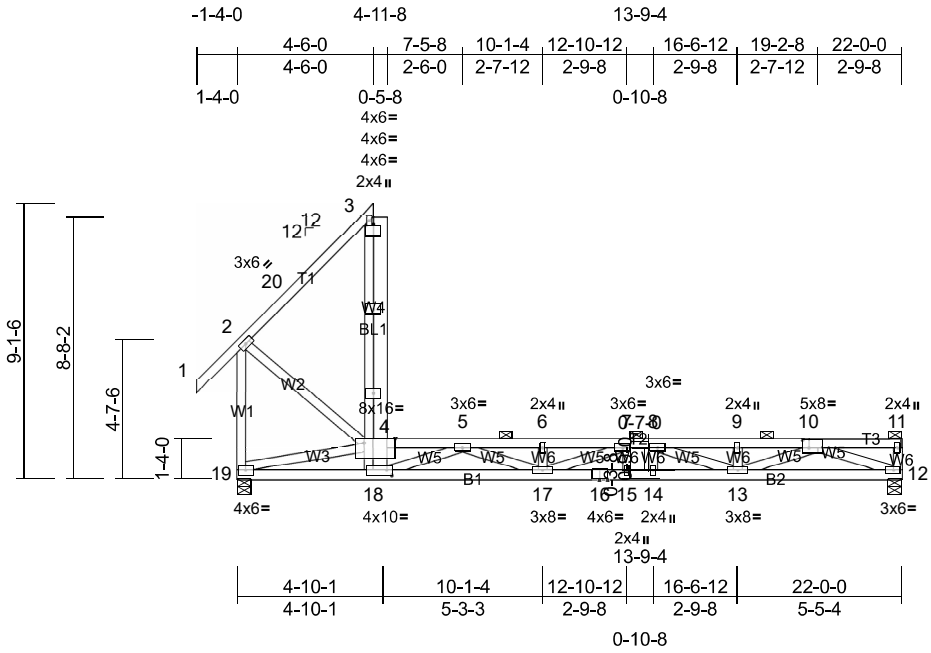
REACTIONS (lb/size) 7=639/0-3-8, (min. 0-1-8), 10=645/ Mechanical

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1583/0, 3-4=-1583/0, 4-5=-1583/0
BOT CHORD 9-10=0/1128, 8-9=0/1583, 7-8=0/1126
WEBS 5-7=-1234/0, 2-10=-1242/0, 5-8=0/581, 2-9=0/581

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	FTR1	Half Hip	5	2	Job Reference (optional)



Scale = 1:76.3

Plate Offsets (X, Y): [3:0-3-0,0-0-8], [4:1-0-4,Edge], [10:0-2-8,0-3-0], [18:0-2-0,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	0.23	15-17	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.45	15-17	>581	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.07	12	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 303 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 0-0-0 oc purlins (5-4-10 max.): 4-18, 4-11.
BOT CHORD Rigid ceiling directly applied or 9-1-12 oc bracing.

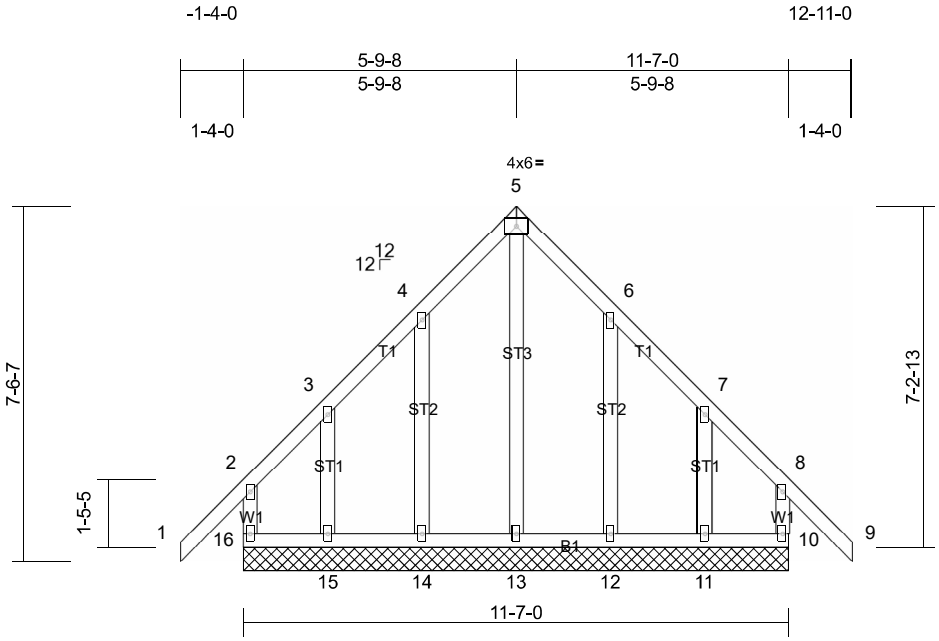
REACTIONS (lb/size) 12=839/0-5-8, (min. 0-1-8), 19=1022/0-5-8, (min. 0-1-8)
Max Horiz 19=345 (LC 14)
Max Uplift 12=-210 (LC 15), 19=-68 (LC 11)
Max Grav 12=922 (LC 2), 19=1182 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-20=-286/31, 4-18=-28/332, 3-4=-382/195, 4-5=-4170/2191, 5-6=-5043/1668, 6-7=-5043/1668, 7-8=-4647/1278, 8-9=-3560/849, 9-10=-3560/849, 2-19=-394/33
BOT CHORD 18-19=-1654/3286, 17-18=-1977/4667, 16-17=-1299/4647, 15-16=-1299/4647, 14-15=-1299/4647, 13-14=-1299/4647, 12-13=-545/2197
WEBS 4-19=-3142/1180, 2-4=-136/336, 5-18=-932/129, 5-17=-76/446, 7-17=-416/573, 10-12=-2232/560, 10-13=-357/1490, 8-13=-1160/492

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 21-10-4 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
5) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
7) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
8) Provide adequate drainage to prevent water ponding.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 210 lb uplift at joint 12 and 68 lb uplift at joint 19.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 301 lb down and 63 lb up at 4-7-0 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: 1-2=-43, 2-3=-43, 4-11=-53, 12-19=-20
Concentrated Loads (lb)
Vert: 3=-255

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	G1E	Common Supported Gable	1	1	Job Reference (optional)



Scale = 1:49

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 83 lb	FT = 20%

LUMBER

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

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

REACTIONS All bearings 11-7-0.

(lb) - Max Horiz 16=-179 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 10, 12, 14 except 11=-127 (LC 15), 15=-129 (LC 14), 16=-104 (LC 10)
Max Grav All reactions 250 (lb) or less at joint (s) 10, 11, 12, 13, 14, 15, 16

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

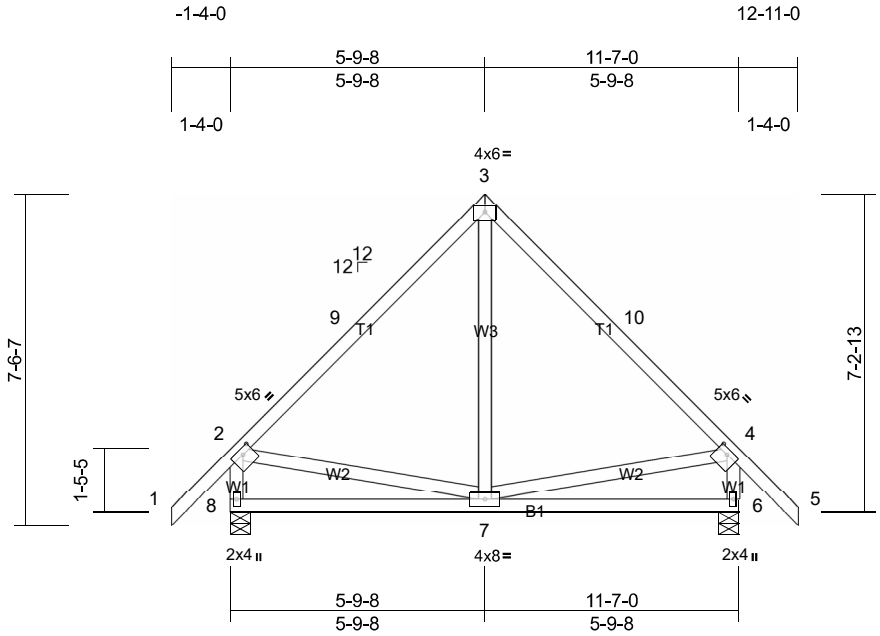
TOP CHORD	4-5=-133/310, 5-6=-133/310
WEBS	5-13=-364/89

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-4-0 to 1-9-8, Exterior(2N) 1-9-8 to 5-9-8, Corner(3R) 5-9-8 to 8-9-8, Exterior(2N) 8-9-8 to 12-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) All plates are 2x4 (||) MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * 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.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 10, 14, 12 except (jt=lb) 16=103, 15=129, 11=126.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	G2	Common	1	1	Job Reference (optional)



Scale = 1:52.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.02	7-8	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.04	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 77 lb	FT = 20%

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

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

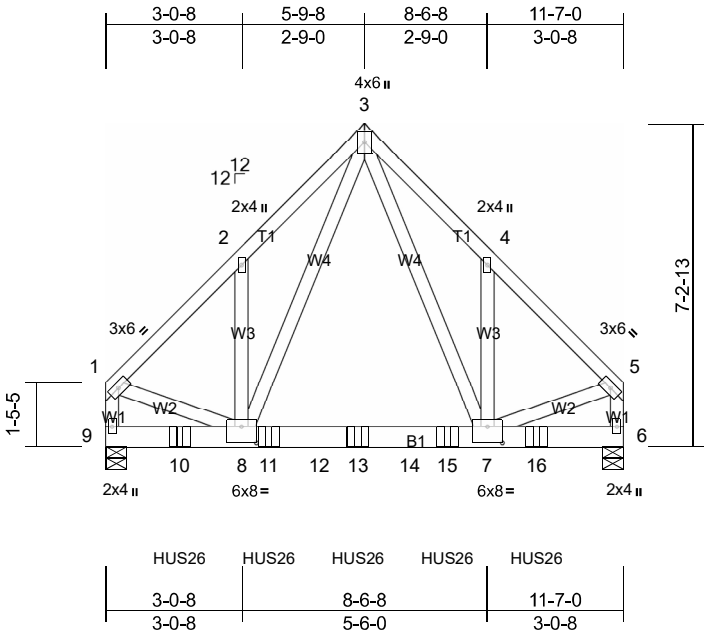
REACTIONS (lb/size) 6=420/0-5-8, (min. 0-1-8), 8=420/0-5-8, (min. 0-1-8)
Max Horiz 8=-179 (LC 12)
Max Uplift 6=-52 (LC 15), 8=-52 (LC 14)
Max Grav 6=540 (LC 2), 8=540 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-409/117, 3-9=-281/143, 3-10=-281/143, 4-10=-409/117, 2-8=-490/178, 4-6=-490/178
BOT CHORD 7-8=-186/256

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 5-9-8, Exterior(2R) 5-9-8 to 8-9-8, Interior (1) 8-9-8 to 12-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 8 and 52 lb uplift at joint 6.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	G3G	Common Girder	1	2	Job Reference (optional)



Scale = 1:51.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.05	7-8	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.09	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.20	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 189 lb	FT = 20%

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

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

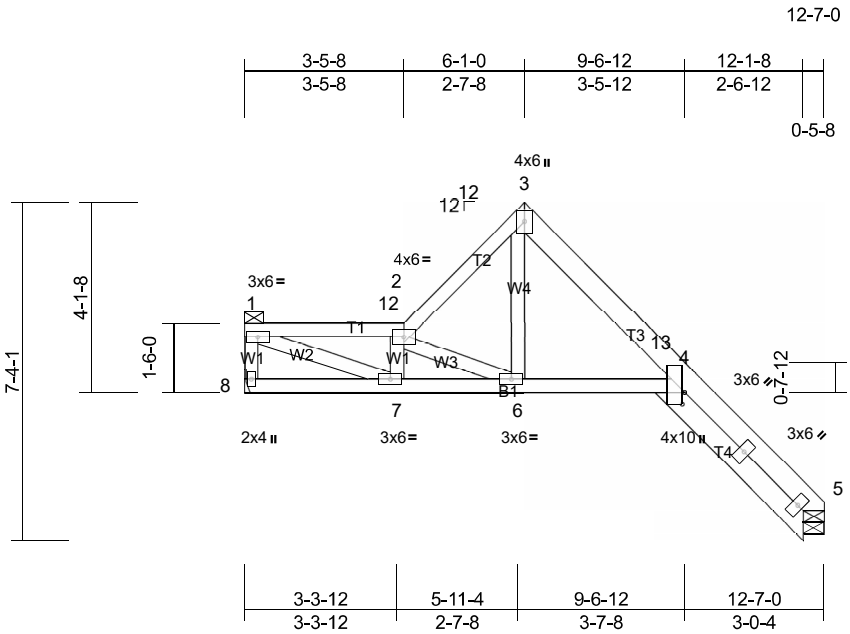
REACTIONS (lb/size) 6=1726/0-5-8, (min. 0-1-8), 9=1798/0-5-8, (min. 0-1-8)
Max Horiz 9=-147 (LC 6)
Max Uplift 6=-245 (LC 10), 9=-256 (LC 11)
Max Grav 6=2454 (LC 21), 9=2557 (LC 22)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2440/274, 2-3=-2410/377, 3-4=-2392/375, 4-5=-2421/272, 1-9=-2408/248, 5-6=-2395/246
BOT CHORD 8-11=-117/1076, 11-12=-117/1076, 12-13=-117/1076, 13-14=-117/1076, 14-15=-117/1076, 7-15=-117/1076
WEBS 3-7=-297/1742, 3-8=-301/1776, 1-8=-148/1743, 5-7=-148/1744

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 256 lb uplift at joint 9 and 245 lb uplift at joint 6.
10) Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-7-12 from the left end to 9-7-12 to connect truss(es) F3 (1 ply 2x4 SP) to back face of bottom chord.
11) 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: 1-3=-43, 3-5=-43, 6-9=-20
Concentrated Loads (lb)
Vert: 10=-562 (B), 11=-562 (B), 13=-562 (B), 15=-562 (B), 16=-562 (B)

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	H1	Roof Special	1	1	Job Reference (optional)



Scale = 1:50

Plate Offsets (X, Y): [4:0-3-0,0-0-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.11	6-11	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.24	6-11	>619	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.22	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 74 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T3,T4:2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

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

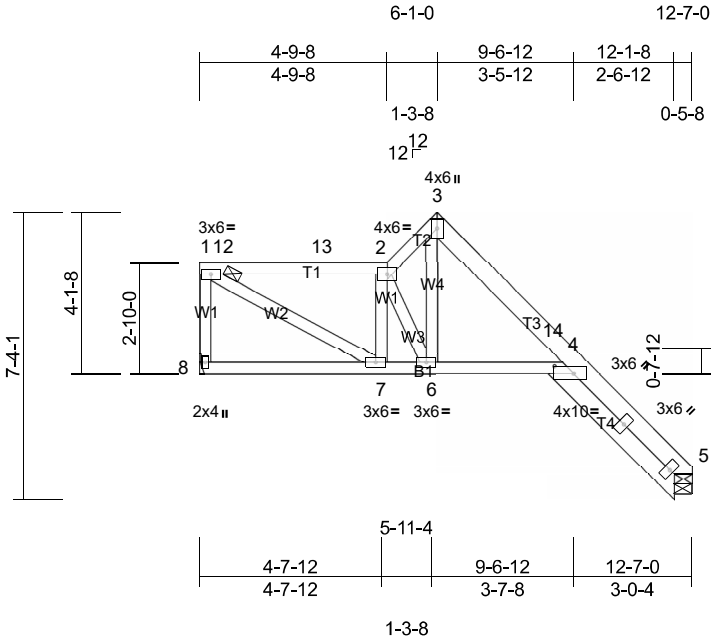
REACTIONS (lb/size) 5=411/0-5-8, (min. 0-1-8), 8=414/ Mechanical
Max Horiz 8=-143 (LC 17)
Max Uplift 5=-56 (LC 17), 8=-47 (LC 16)
Max Grav 5=509 (LC 2), 8=488 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-433/124, 1-12=-901/231, 2-12=-901/231, 2-3=-668/193, 3-4=-527/159, 4-13=-933/159, 4-13=-950/157, 4-5=-362/140
BOT CHORD 6-7=-116/944, 4-6=0/444
WEBS 1-7=-229/900, 2-7=-353/126, 3-6=-121/502, 2-6=-535/196

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 6-1-0, Exterior(2R) 6-1-0 to 9-1-0, Interior (1) 9-1-0 to 12-3-5 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
10) 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.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 8 and 56 lb uplift at joint 5.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	H2	Roof Special	1	1	Job Reference (optional)



Scale = 1:58.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.11	6-11	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.22	6-11	>651	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.21	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 79 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T3,T4:2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

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

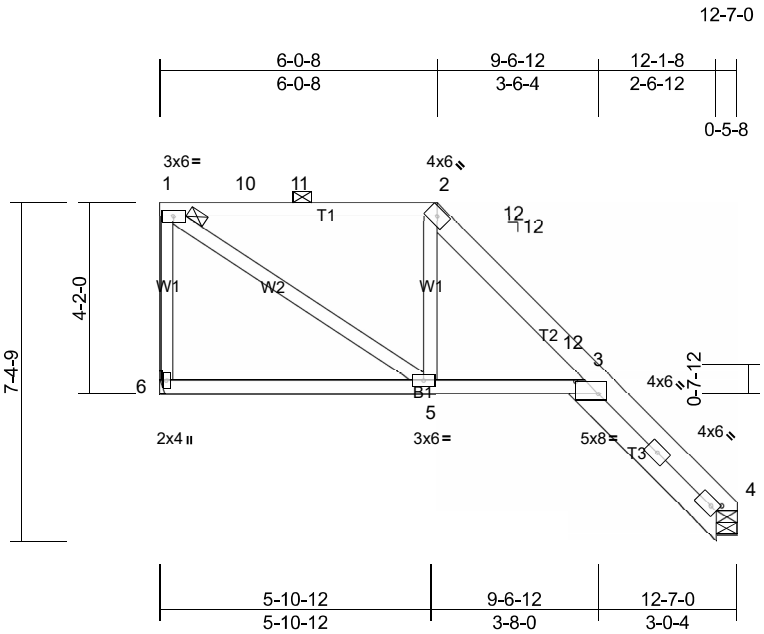
REACTIONS (lb/size) 5=416/0-5-8, (min. 0-1-8), 8=423/ Mechanical
Max Horiz 8=-153 (LC 12)
Max Uplift 5=-56 (LC 17), 8=-55 (LC 16)
Max Grav 5=509 (LC 2), 8=521 (LC 41)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-472/143, 1-12=-555/155, 12-13=-555/155, 2-13=-555/155, 2-3=-635/200, 3-4=-537/146, 4-14=-935/137, 4-14=-952/135, 4-5=-362/135
BOT CHORD 6-7=0/574, 4-6=0/453
WEBS 1-7=-171/599, 2-7=-343/145, 3-6=-153/527, 2-6=-334/103

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 6-1-0, Exterior(2R) 6-1-0 to 9-1-0, Interior (1) 9-1-0 to 12-3-5 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
10) 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.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 8 and 56 lb uplift at joint 5.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	H3	Roof Special	1	1	Job Reference (optional)



Scale = 1:50.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.14	5-9	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.25	5-9	>574	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.23	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 76 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* T1:2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2

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

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

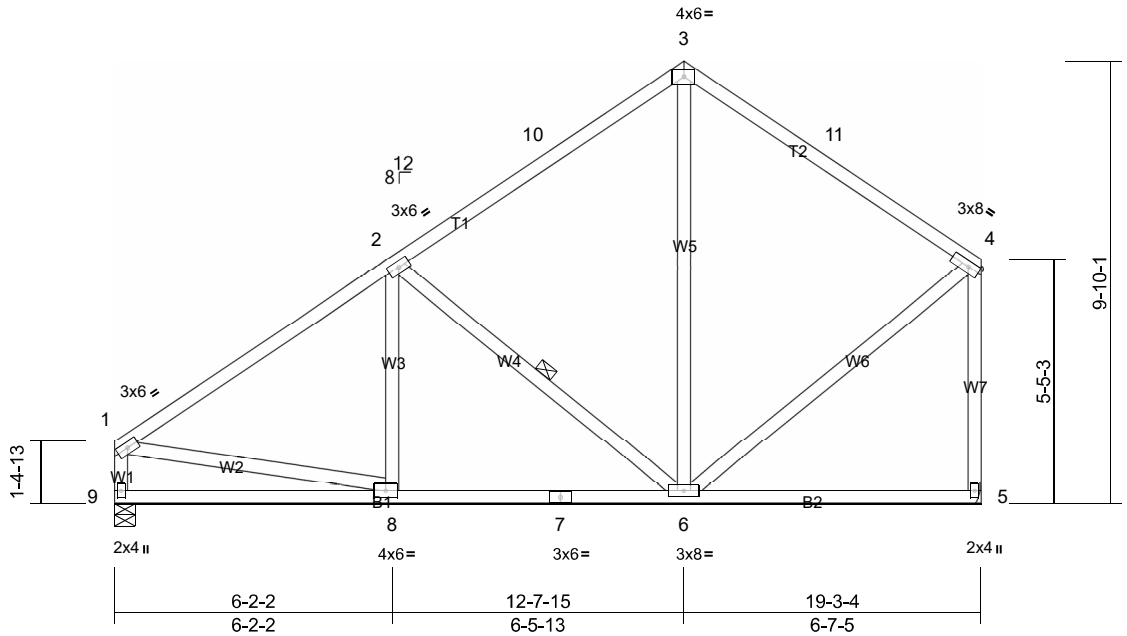
REACTIONS (lb/size) 4=421/0-5-8, (min. 0-1-8), 6=430/Mechanical
Max Horiz 6=-169 (LC 12)
Max Uplift 4=-54 (LC 17), 6=-71 (LC 12)
Max Grav 4=597 (LC 38), 6=565 (LC 37)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-521/170, 1-10=-445/168, 10-11=-445/168, 2-11=-445/168, 2-3=-530/136, 3-12=-975/138, 3-12=-1003/136, 3-4=-421/135
BOT CHORD 5-6=-176/314, 3-5=-12/447
WEBS 1-5=-182/511

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 6-0-8, Exterior(2R) 6-0-8 to 9-0-8, Interior (1) 9-0-8 to 12-3-5 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
10) Bearing at joint(s) 4 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 71 lb uplift at joint 6 and 54 lb uplift at joint 4.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	I1	Common	2	1	Job Reference (optional)



Scale = 1:51.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.05	5-6	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.09	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 126 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-7-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-6

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

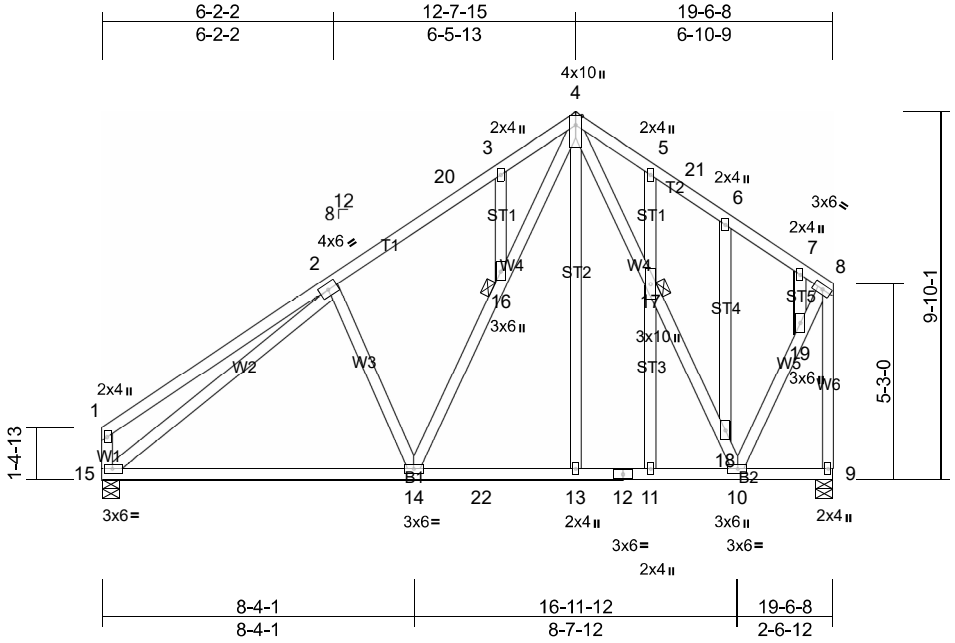
REACTIONS (lb/size) 5=599/ Mechanical, 9=599/0-5-8, (min. 0-1-8)
Max Horiz 9=244 (LC 11)
Max Uplift 5=-86 (LC 14), 9=-78 (LC 14)
Max Grav 5=759 (LC 2), 9=759 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-878/121, 2-10=-552/139, 3-10=-435/159, 3-11=-424/147, 4-11=-539/127, 1-9=-703/94, 4-5=-701/120
BOT CHORD 8-9=-247/280, 7-8=-210/707, 6-7=-210/707
WEBS 4-6=-71/452, 2-6=-415/174, 1-8=-31/570

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-8-15 to 3-8-15, Interior (1) 3-8-15 to 13-3-1, Exterior(2R) 13-3-1 to 16-3-1, Interior (1) 16-3-1 to 19-8-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain load requirements specific to the use of this truss component.
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 78 lb uplift at joint 9 and 86 lb uplift at joint 5.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	I2E	Common	1	1	Job Reference (optional)



Scale = 1:61.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.12	14-15	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.24	14-15	>965	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.02	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 171 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-11-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 16, 17

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

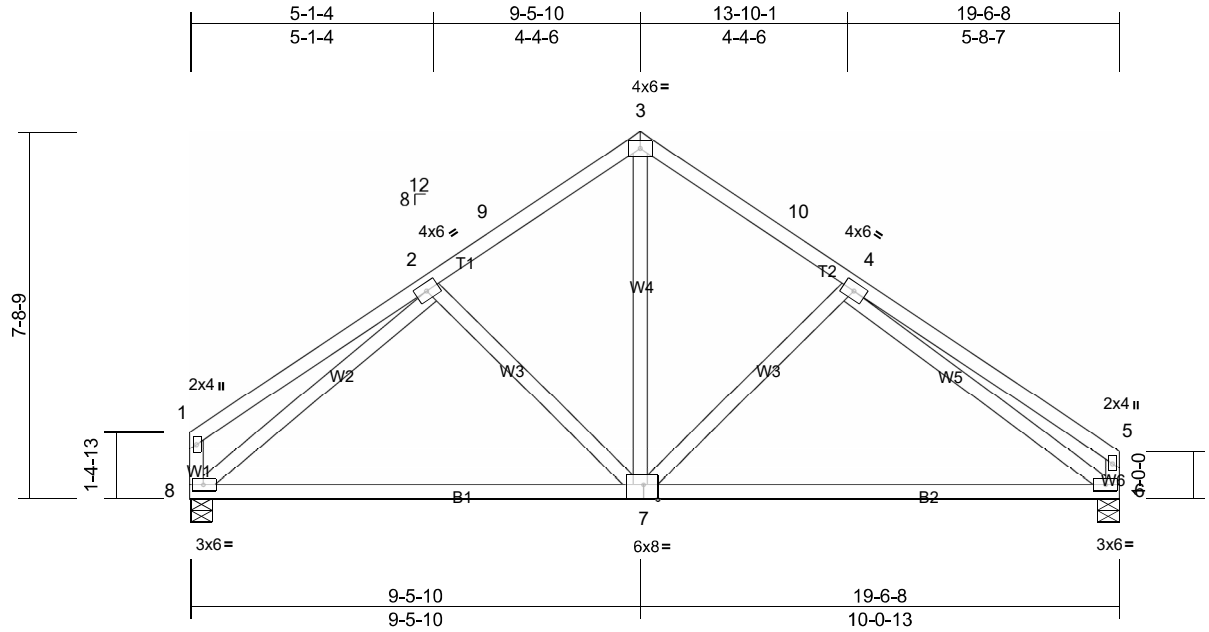
REACTIONS (lb/size) 9=607/0-5-8, (min. 0-1-8), 15=607/0-5-8, (min. 0-1-8)
Max Horiz 15=240 (LC 11)
Max Uplift 9=-82 (LC 14), 15=-80 (LC 14)
Max Grav 9=871 (LC 25), 15=862 (LC 25)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-307/103, 2-20=-857/155, 3-20=-761/180, 3-4=-781/215, 4-5=-379/201, 5-21=-387/174, 6-21=-432/169, 6-7=-372/136, 7-8=-419/123, 1-15=-283/93, 8-9=-832/100
BOT CHORD 14-15=-212/820, 14-22=-115/477, 13-22=-115/477, 12-13=-115/479, 11-12=-115/479, 10-11=-115/479
WEBS 4-17=-382/70, 17-18=-394/77, 10-18=-535/108, 10-19=-92/678, 8-19=-106/631, 14-16=-134/555, 4-16=-177/643, 2-15=-744/62

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-8-15 to 3-8-15, Interior (1) 3-8-15 to 13-1-5, Exterior(2R) 13-1-5 to 16-1-5, Interior (1) 16-1-5 to 19-11-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 15 and 82 lb uplift at joint 9.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	I3	Common	2	1	Job Reference (optional)



Scale = 1:48.5

Plate Offsets (X, Y): [7:0-3-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.19	6-7	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.39	6-7	>595	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.02	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 114 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP 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 2-2-0 oc bracing.

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

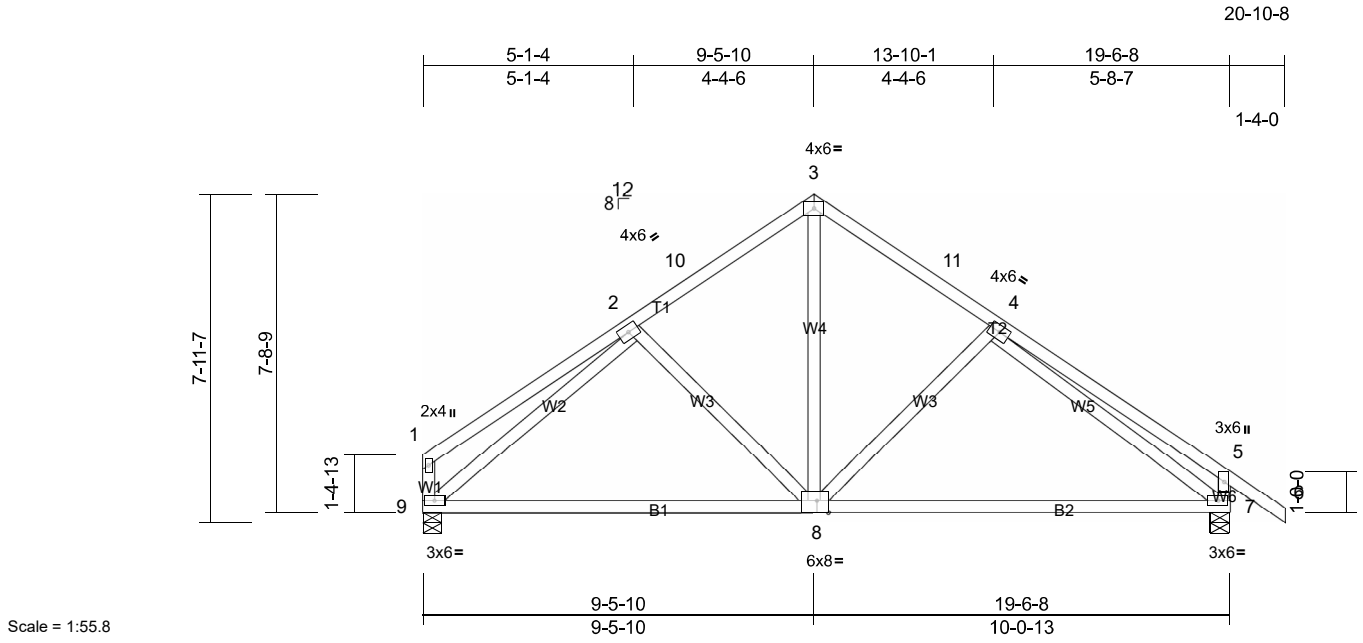
REACTIONS (lb/size) 6=607/0-5-8, (min. 0-1-8), 8=607/0-5-8, (min. 0-1-8)
Max Horiz 8=-159 (LC 12)
Max Uplift 6=-79 (LC 15), 8=-75 (LC 14)
Max Grav 6=770 (LC 2), 8=770 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-722/111, 3-9=-638/138, 3-10=-643/142, 4-10=-730/115, 4-5=-350/99, 5-6=-301/90
BOT CHORD 7-8=-98/659, 6-7=-67/694
WEBS 2-8=-715/82, 4-6=-614/65, 3-7=-82/495

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-8-15 to 3-8-15, Interior (1) 3-8-15 to 10-0-13, Exterior(2R) 10-0-13 to 13-0-13, Interior (1) 13-0-13 to 19-11-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 75 lb uplift at joint 8 and 79 lb uplift at joint 6.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	I4	Common	3	1	Job Reference (optional)



Scale = 1:55.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.19	7-8	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.39	7-8	>595	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.02	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 117 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP 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 2-2-0 oc bracing.

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

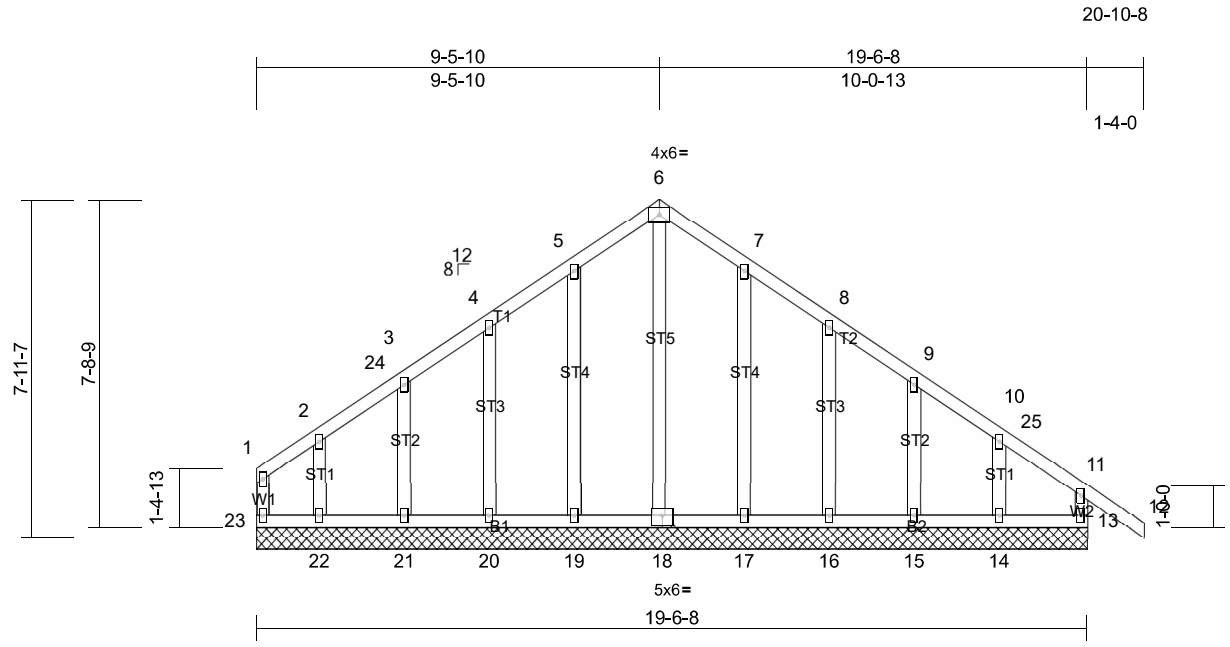
REACTIONS (lb/size) 7=674/0-5-8, (min. 0-1-8), 9=605/0-5-8, (min. 0-1-8)
Max Horiz 9=-172 (LC 12)
Max Uplift 7=-101 (LC 15), 9=-75 (LC 14)
Max Grav 7=862 (LC 2), 9=767 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-717/111, 3-10=-633/138, 3-11=-639/140, 4-11=-723/113, 4-5=-373/133, 5-7=-407/136
BOT CHORD 8-9=-85/666, 7-8=-22/679
WEBS 2-9=-710/82, 4-7=-587/46, 3-8=-78/491

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-8-15 to 3-8-15, Interior (1) 3-8-15 to 10-0-13, Exterior(2R) 10-0-13 to 13-0-13, Interior (1) 13-0-13 to 21-5-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 75 lb uplift at joint 9 and 101 lb uplift at joint 7.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	I5E	Common Supported Gable	1	1	Job Reference (optional)



Scale = 1:54.2

Plate Offsets (X, Y): [18:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.00	13	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 125 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP 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.

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

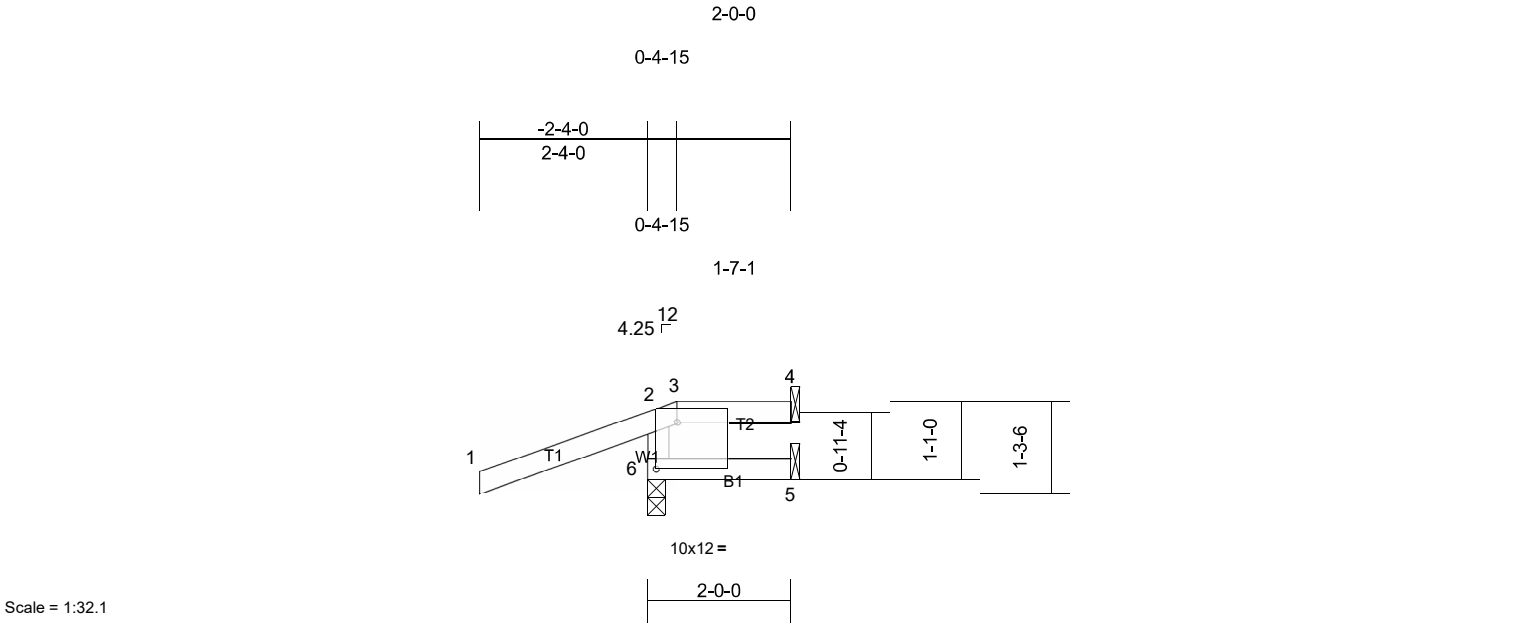
REACTIONS All bearings 19-6-8.
(lb) - Max Horiz 23=-172 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 13, 14, 15, 16, 17, 19, 20, 21, 22, 23
Max Grav All reactions 250 (lb) or less at joint (s) 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-8-15 to 3-8-15, Exterior(2N) 3-8-15 to 10-0-13, Corner(3R) 10-0-13 to 13-0-13, Exterior(2N) 13-0-13 to 21-5-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) All plates are 2x4 (||) MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * 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.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 23, 13, 19, 20, 21, 22, 17, 16, 15, 14.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	J1	Jack-Open	1	1	Job Reference (optional)



Scale = 1:32.1

Plate Offsets (X, Y): [6:0-3-8,0-7-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	0.00	5-6	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	0.00	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 10 lb	FT = 20%

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

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

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

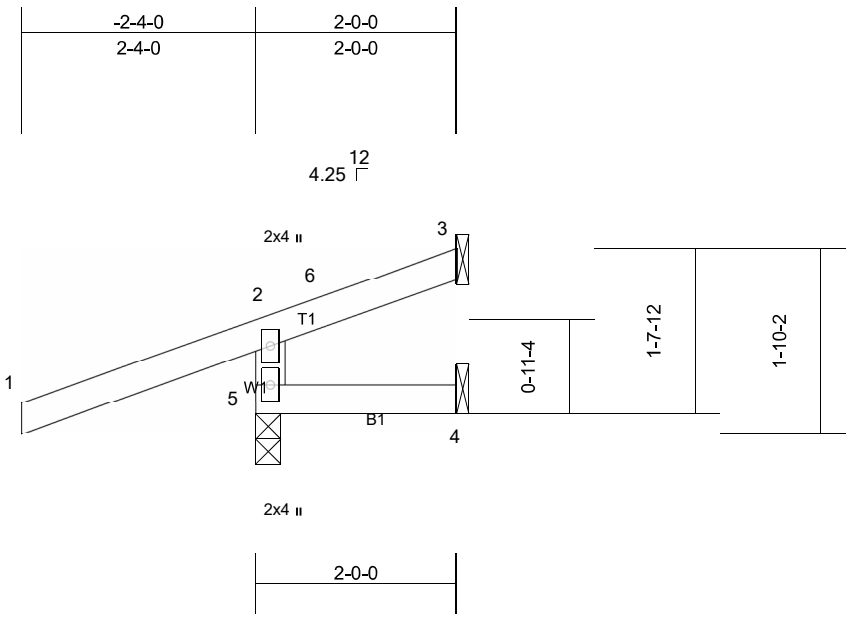
REACTIONS (lb/size) 4=-2/ Mechanical, 5=-3/ Mechanical, 6=244/0-3-0, (min. 0-1-8)
Max Horiz 6=31 (LC 12)
Max Uplift 4=-54 (LC 38), 5=-19 (LC 38), 6=-130 (LC 12)
Max Grav 4=39 (LC 45), 5=24 (LC 7), 6=346 (LC 38)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-290/216

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-4-0 to 1-11-14 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
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 6, 54 lb uplift at joint 4 and 19 lb uplift at joint 5.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	J2	Jack-Open	1	1	Job Reference (optional)



Scale = 1:23

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	0.00	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 11 lb	FT = 20%

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

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

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

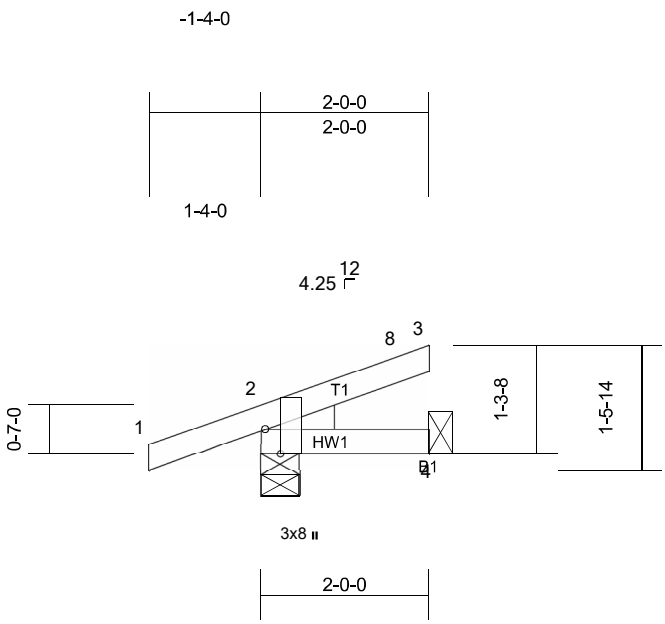
REACTIONS (lb/size) 3=-10/ Mechanical, 4=-4/ Mechanical, 5=237/0-3-0, (min. 0-1-8)
Max Horiz 5=48 (LC 12)
Max Uplift 3=-29 (LC 22), 4=-13 (LC 23), 5=-121 (LC 12)
Max Grav 3=10 (LC 12), 4=24 (LC 7), 5=334 (LC 23)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-284/201

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-4-0 to 0-8-0, Interior (1) 0-8-0 to 1-11-14 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
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 5, 29 lb uplift at joint 3 and 13 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	J3	Jack-Open	2	1	Job Reference (optional)



Scale = 1:27.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	0.00	7	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	0.00	4-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 10 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE Left: 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-9-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

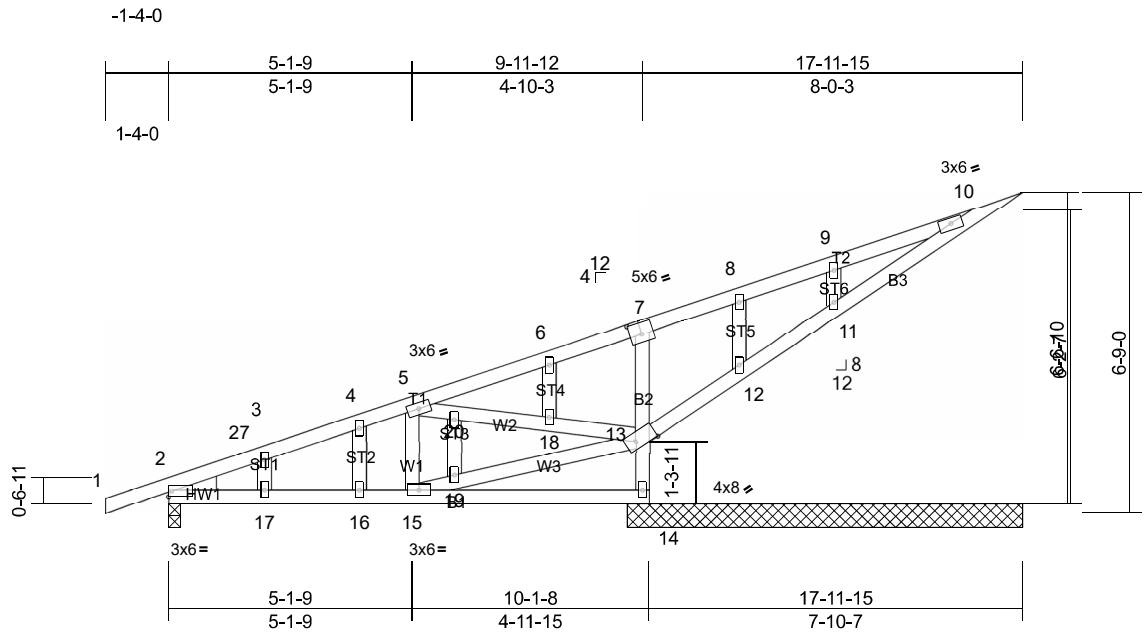
REACTIONS (lb/size) 2=139/0-5-8, (min. 0-1-8), 4=44/ Mechanical
Max Horiz 2=40 (LC 12)
Max Uplift 2=-58 (LC 12), 4=-17 (LC 13)
Max Grav 2=186 (LC 2), 4=54 (LC 2)

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

NOTES
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 2-0-0 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 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; 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 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 2 and 17 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	M1E	Monopitch Structural Gable	1	1	Job Reference (optional)



Scale = 1:48.6

Plate Offsets (X, Y): [7:0-3-0,0-3-0], [13:0-5-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	0.03	16-17	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.04	16-17	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.01	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 90 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2
WEDGE	Left: 2x4 SP No.2

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.

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

REACTIONS All bearings 8-4-0. except 2=0-3-0
(lb) - Max Horiz 2=194 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 10, 11, 12 except 2=-126 (LC 12), 14=-212 (LC 12)
Max Grav All reactions 250 (lb) or less at joint (s) 10, 12 except 2=424 (LC 2), 11=305 (LC 23), 14=640 (LC 2)

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

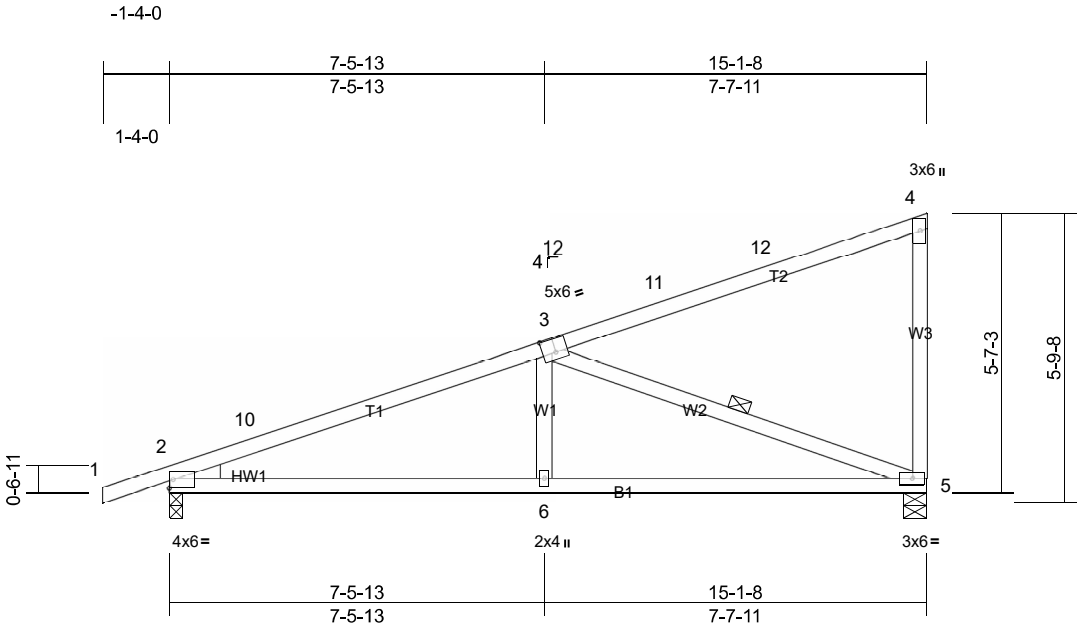
TOP CHORD	2-27=-468/114, 3-27=-436/115, 3-4=-444/125, 4-5=-411/130, 6-7=-159/273, 7-8=-134/258, 8-9=-119/284, 9-10=-88/256
BOT CHORD	2-17=-255/410, 16-17=-255/410, 15-16=-255/410, 13-14=-597/217, 12-13=-294/76, 11-12=-286/72, 10-11=-321/83
WEBS	15-19=-248/406, 13-19=-249/414, 5-20=-636/305, 18-20=-635/306, 13-18=-637/306

NOTES

1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 16-11-5 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain load requirements specific to the use of this truss component.
7) All plates are 2x4 (||) MT20 unless otherwise indicated.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
12) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 10, 11, 12 except (jt=lb) 2=125, 14=211.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	M2	Monopitch	9	1	Job Reference (optional)



Scale = 1:46.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.08	5-6	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.17	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 72 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-11-5 oc bracing.
WEBS 1 Row at midpt 3-5

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

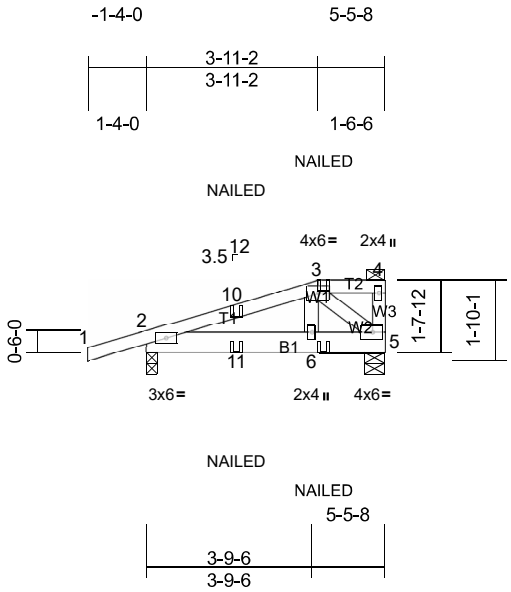
REACTIONS (lb/size) 2=533/0-3-0, (min. 0-1-8), 5=470/0-5-8, (min. 0-1-8)
Max Horiz 2=183 (LC 15)
Max Uplift 2=-238 (LC 12), 5=-223 (LC 12)
Max Grav 2=683 (LC 2), 5=596 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-1065/433, 3-10=-936/458
BOT CHORD 2-6=-531/947, 5-6=-523/936
WEBS 3-6=-133/332, 3-5=-977/489

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 14-11-12 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 at joint(s) 2.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 238 lb uplift at joint 2 and 223 lb uplift at joint 5.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	M3G	Half Hip Girder	1	1	Job Reference (optional)



Scale = 1:52.8

1-8-2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	0.00	6-9	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	6-9	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 28 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-5-8 oc purlins, except end verticals, and 10-0-0 oc max: 3-4.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

REACTIONS (lb/size) 2=220/0-3-0, (min. 0-1-8), 5=148/0-5-8, (min. 0-1-8)
Max Horiz 2=48 (LC 11)
Max Uplift 2=-94 (LC 8), 5=-53 (LC 8)
Max Grav 2=308 (LC 34), 5=177 (LC 2)

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

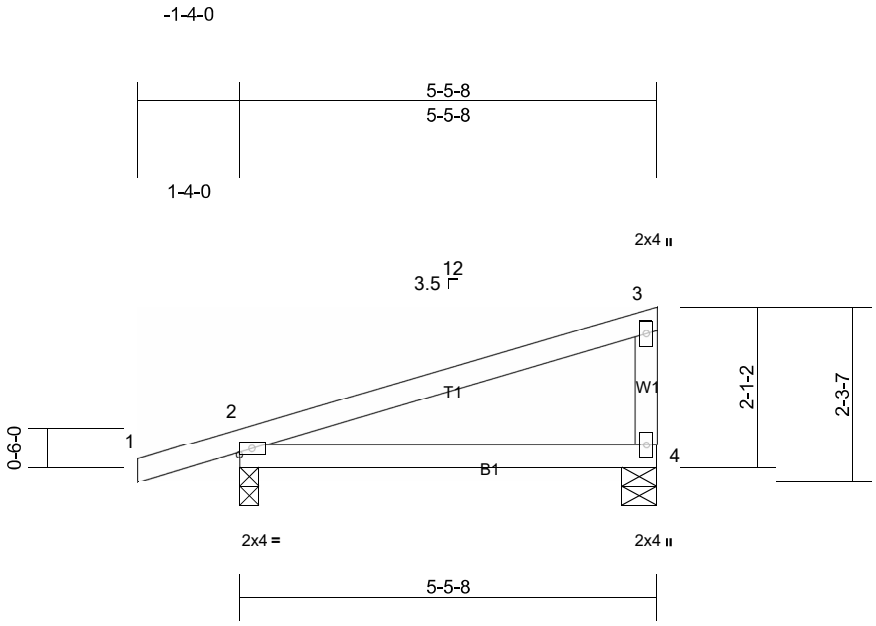
NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 at joint(s) 2.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 2 and 53 lb uplift at joint 5.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
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: 1-3=-43, 3-4=-53, 5-7=-20
Concentrated Loads (lb)
Vert: 6=3, 3=24, 10=13, 11=-2

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	M4	Monopitch	4	1	Job Reference (optional)

84 Components, Dunn, NC 28334 Run: 26.20 S Aug 3 2026 Print: 26.2.0 S Aug 3 2026 MiTek Industries, Inc. Wed Sep 16 11:41:42 Page: 1

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Scale = 1:30.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	0.06	4-7	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.08	4-7	>828	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 21 lb	FT = 20%

LUMBER

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

BRACING

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

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

REACTIONS (lb/size) 2=232/0-3-0, (min. 0-1-8), 4=160/0-5-8, (min. 0-1-8)
Max Horiz 2=63 (LC 15)
Max Uplift 2=-115 (LC 12), 4=-74 (LC 12)
Max Grav 2=303 (LC 2), 4=211 (LC 23)

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

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 5-3-12 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 at joint(s) 2.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 4 and 115 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	M5	Monopitch	2	1	Job Reference (optional)

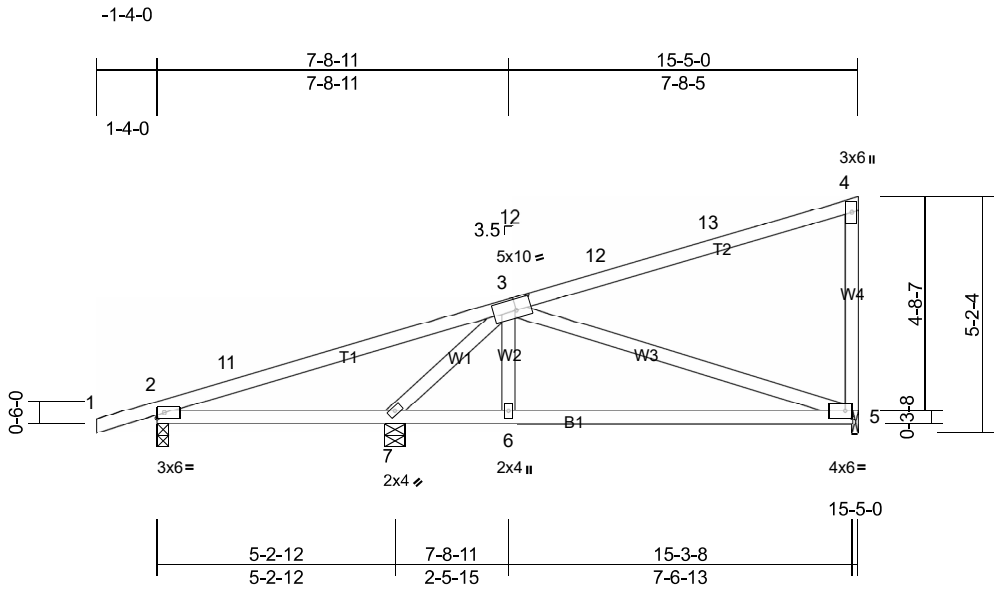


Plate Offsets (X, Y): [3:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.09	5-6	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.19	5-6	>638	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 75 lb	FT = 20%

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

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

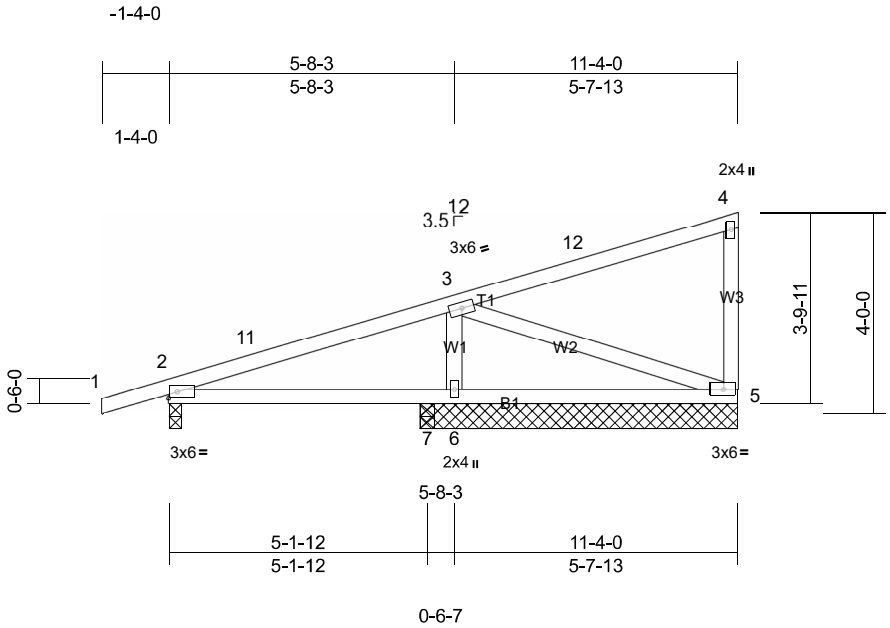
REACTIONS (lb/size) 2=265/0-3-0, (min. 0-1-8), 5=342/0-1-8, (min. 0-1-8), 7=414/0-5-8, (min. 0-1-8)
Max Horiz 2=160 (LC 15)
Max Uplift 2=-132 (LC 12), 5=-91 (LC 12), 7=-95 (LC 12)
Max Grav 2=347 (LC 2), 5=435 (LC 2), 7=520 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 6-7=-234/582, 5-6=-234/582
WEBS 3-6=0/254, 3-5=-579/187, 3-7=-577/80

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 15-3-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) 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.
10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2, 5.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 2, 95 lb uplift at joint 7 and 91 lb uplift at joint 5.
12) Gap between inside of extended chord bearing and first diagonal or vertical web shall not exceed 0.500in at joint 5.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	M6	Monopitch Structural Gable	1	1	Job Reference (optional)



Scale = 1:45.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.02	5-6	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.04	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 52 lb	FT = 20%

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

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

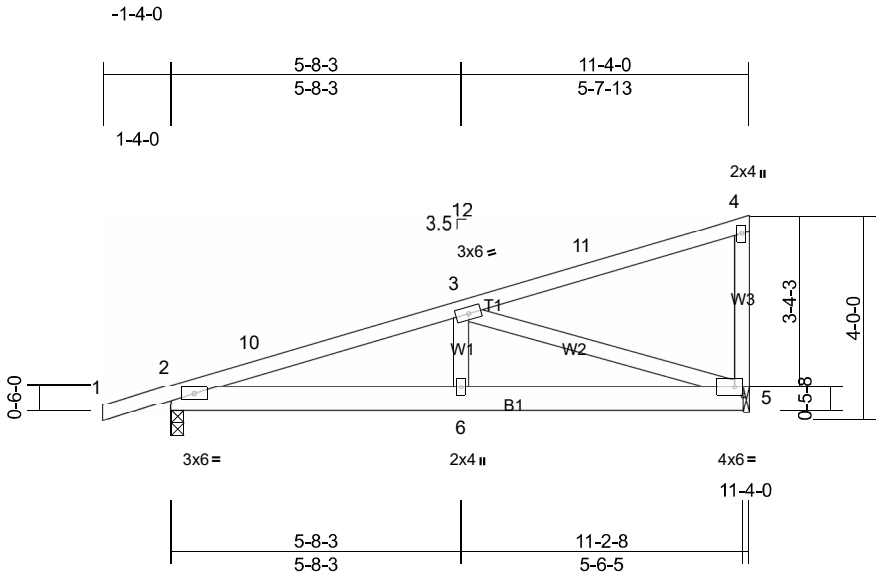
REACTIONS All bearings 6-4-0. except 2=0-3-0, 7=0-3-8
(lb) - Max Horiz 2=120 (LC 15)
Max Uplift All uplift 100 (lb) or less at joint(s) 5, 6 except 2=-112 (LC 12), 7=-130 (LC 13)
Max Grav All reactions 250 (lb) or less at joint (s) 5, 7 except 2=308 (LC 2), 6=349 (LC 23)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-304/123

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 11-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 at joint(s) 2.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 6, 5 except (jt=lb) 2=112, 7=129.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	M7	Monopitch	5	1	Job Reference (optional)



Scale = 1:45.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	0.02	6-9	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.04	6-9	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 61 lb	FT = 20%

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

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

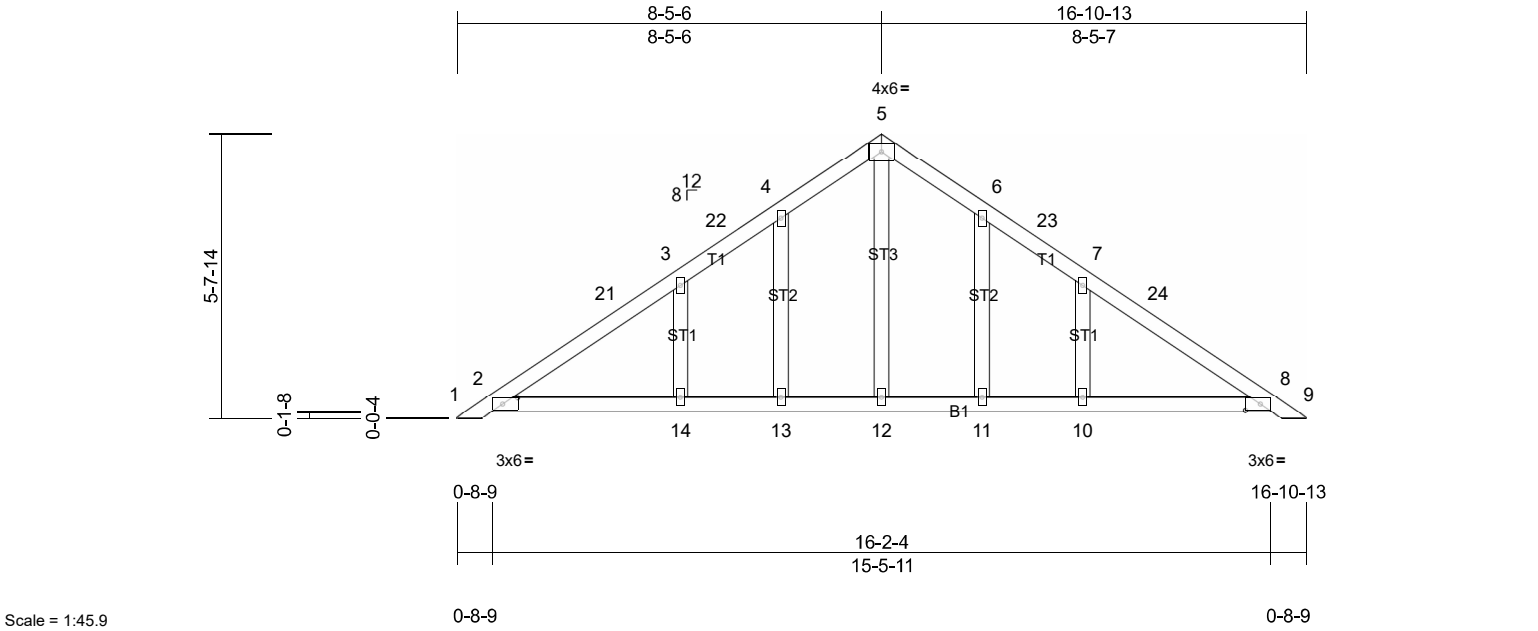
REACTIONS (lb/size) 2=414/0-3-0, (min. 0-1-8), 5=350/0-1-8, (min. 0-1-8)
Max Horiz 2=118 (LC 15)
Max Uplift 2=-192 (LC 12), 5=-162 (LC 12)
Max Grav 2=532 (LC 2), 5=443 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-860/421, 3-10=-788/435
BOT CHORD 2-6=-497/793, 5-6=-497/793
WEBS 3-5=-808/469

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 11-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) 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.
10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2, 5.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 192 lb uplift at joint 2 and 162 lb uplift at joint 5.
12) Gap between inside of extended chord bearing and first diagonal or vertical web shall not exceed 0.500in at joint 5.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	PB1E	Piggyback	1	1	Job Reference (optional)



Scale = 1:45.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 78 lb	FT = 20%

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

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

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

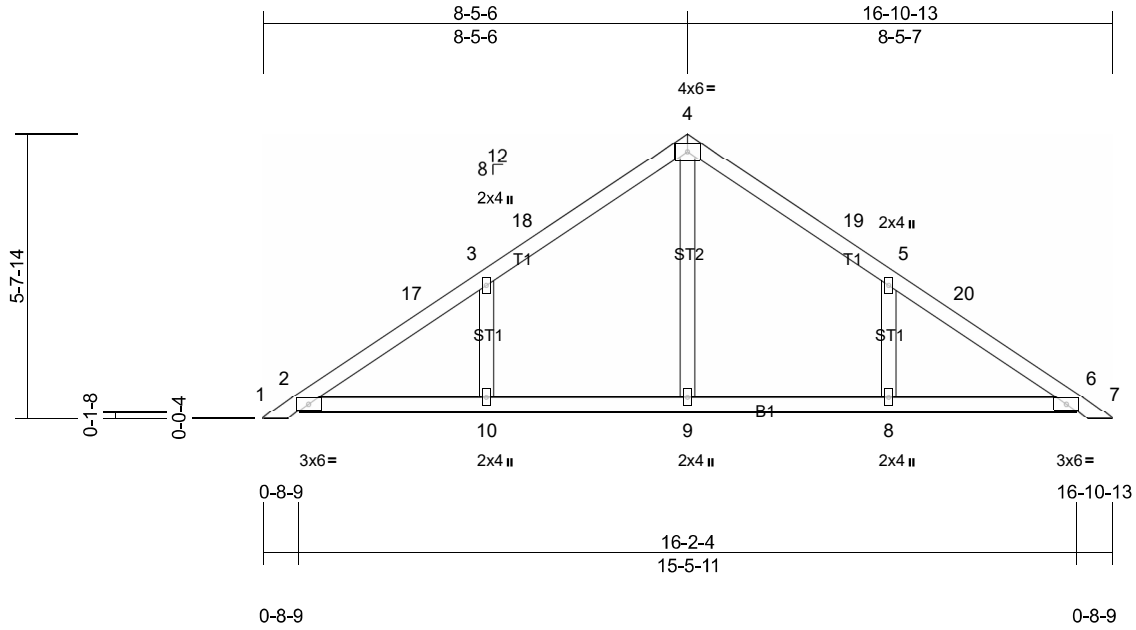
REACTIONS All bearings 15-5-11.
(lb) - Max Horiz 2=109 (LC 13)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 8, 11, 13 except 10=-104 (LC 15), 14=-105 (LC 14)
Max Grav All reactions 250 (lb) or less at joint (s) 2, 8, 11, 12, 13 except 10=309 (LC 27), 14=309 (LC 26)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Interior (1) 3-3-5 to 8-5-12, Exterior(2R) 8-5-12 to 11-5-12, Interior (1) 11-5-12 to 16-8-4 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) All plates are 2x4 (||) MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * 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.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 2, 8, 13, 11, 2, 8 except (jt=lb) 14=104, 10=104.
13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	PB2	Piggyback	6	1	Job Reference (optional)



Scale = 1:45.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 67 lb	FT = 20%

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

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

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

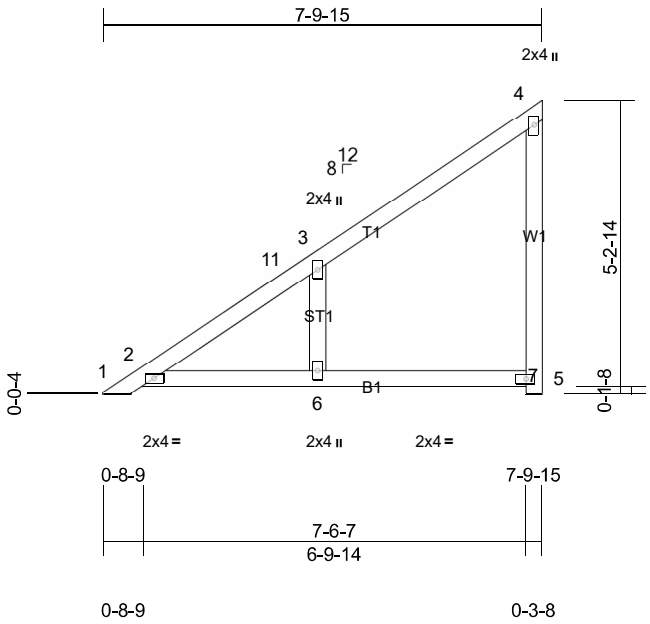
REACTIONS All bearings 16-11-9.
(lb) - Max Horiz 1=-109 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 6 except 1=-185 (LC 26), 7=-134 (LC 27), 8=-120 (LC 15), 10=-120 (LC 14)
Max Grav All reactions 250 (lb) or less at joint (s) 1, 7, 9 except 2=359 (LC 26), 6=331 (LC 2), 8=346 (LC 27), 10=346 (LC 26)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-10=-261/138, 5-8=-261/138

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Interior (1) 3-3-5 to 8-5-12, Exterior(2R) 8-5-12 to 11-5-12, Interior (1) 11-5-12 to 16-8-4 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 4-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 100 lb uplift at joint (s) 2, 6, 2, 6 except (jt=lb) 1=185, 7=133, 10=120, 8=120.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	PB3	Piggyback	11	1	Job Reference (optional)



Scale = 1:41.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 34 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP 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.

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

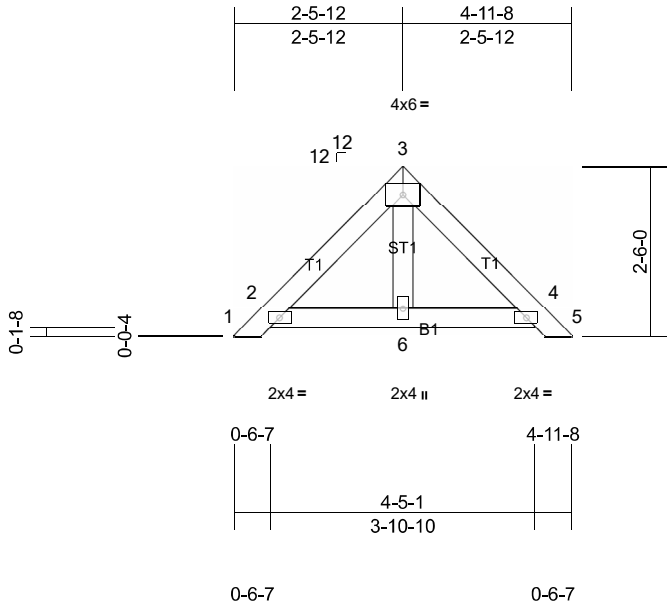
REACTIONS All bearings 6-9-14.
(lb) - Max Horiz 2=153 (LC 13)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 5 except 6=-121 (LC 14)
Max Grav All reactions 250 (lb) or less at joint (s) 2, 5 except 6=360 (LC 26)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-265/153

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Interior (1) 3-3-5 to 7-8-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 4-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 2, 5, 2 except (jt=lb) 6=120.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	PB4E	Piggyback	1	1	Job Reference (optional)



Scale = 1:33.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 19 lb	FT = 20%

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

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

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

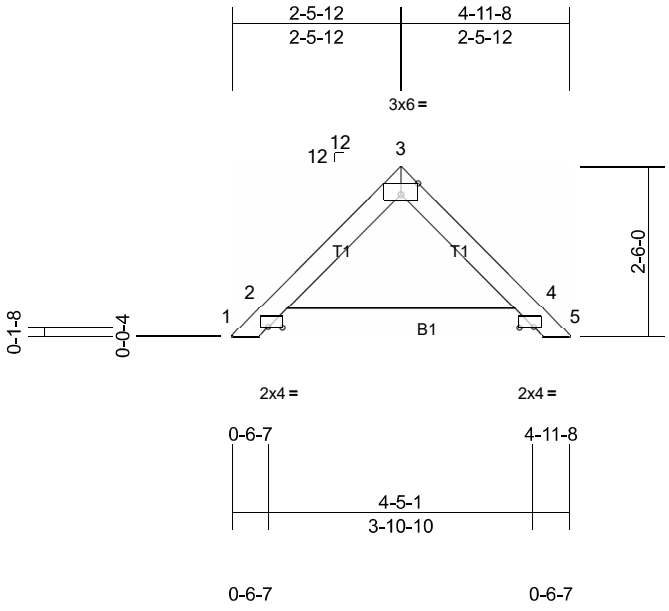
REACTIONS All bearings 5-0-0.
(lb) - Max Horiz 1=-46 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 2, 5, 6
Max Grav All reactions 250 (lb) or less at joint (s) 1, 2, 5, 6

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 4-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 100 lb uplift at joint (s) 1, 5, 2, 6, 2.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	PB5	Piggyback	9	1	Job Reference (optional)



Scale = 1:33.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 16 lb	FT = 20%

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

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

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

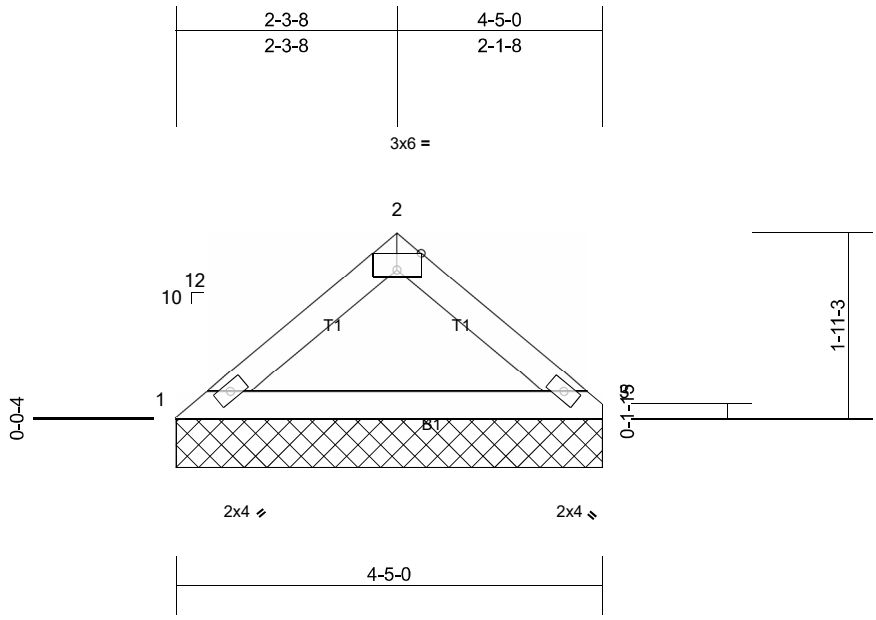
REACTIONS All bearings 5-0-0.
(lb) - Max Horiz 1=-46 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 5 except 1=-198 (LC 26)
Max Grav All reactions 250 (lb) or less at joint (s) 1, 5 except 2=400 (LC 26)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 4-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 100 lb uplift at joint (s) 5, 2, 2 except (jt=lb) 1=198.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	V1	Valley	1	1	Job Reference (optional)



Scale = 1:23.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 14 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

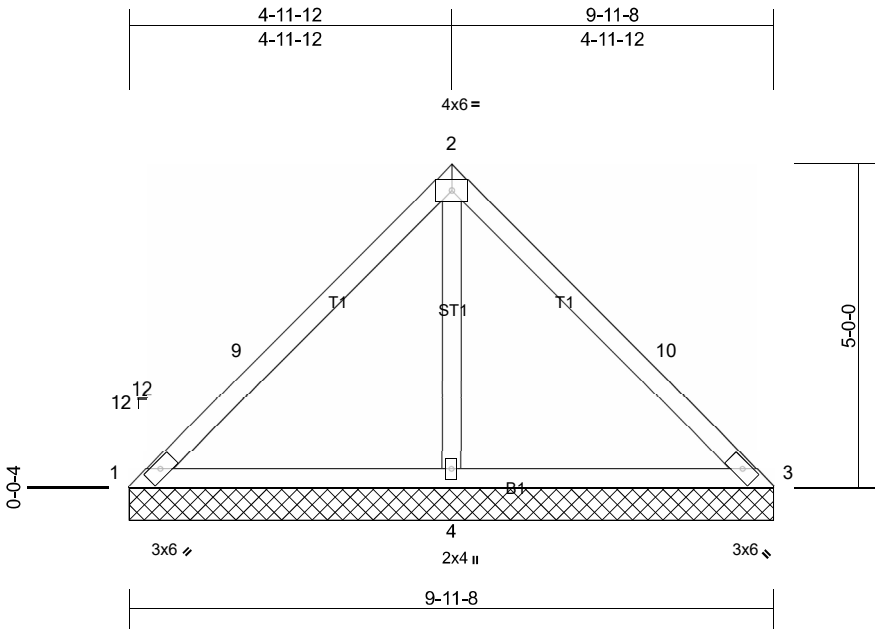
REACTIONS (lb/size) 1=139/4-5-0, (min. 0-1-8), 3=139/4-5-0, (min. 0-1-8)
Max Horiz 1=-35 (LC 10)
Max Uplift 1=-18 (LC 14), 3=-17 (LC 15)
Max Grav 1=177 (LC 2), 3=177 (LC 2)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
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 18 lb uplift at joint 1 and 17 lb uplift at joint 3.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	V2	Valley	1	1	Job Reference (optional)



Scale = 1:35.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.27	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.21	Horiz(TL)	0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 41 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 9-11-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

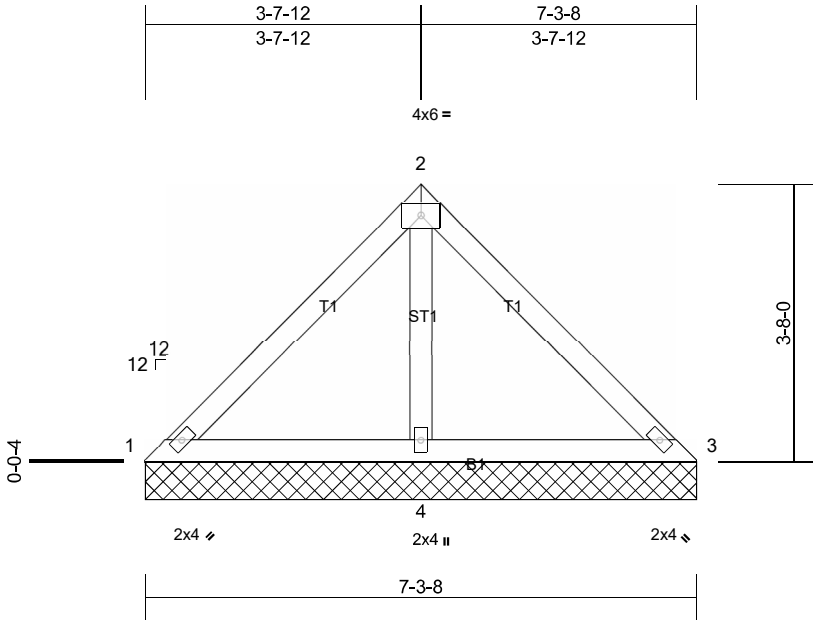
REACTIONS (lb/size) 1=20/9-11-8, (min. 0-1-8), 3=20/9-11-8, (min. 0-1-8), 4=589/9-11-8, (min. 0-1-8)
Max Horiz 1=96 (LC 13)
Max Uplift 1=-31 (LC 32), 3=-31 (LC 31), 4=-158 (LC 14)
Max Grav 1=68 (LC 31), 3=68 (LC 32), 4=744 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-138/305, 2-10=-129/305
WEBS 2-4=-567/302

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 5-0-0, Exterior(2R) 5-0-0 to 8-0-0, Interior (1) 8-0-0 to 9-11-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
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 31 lb uplift at joint 1, 31 lb uplift at joint 3 and 158 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	V2A	Valley	1	1	Job Reference (optional)



Scale = 1:30.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	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	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 29 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 7-3-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

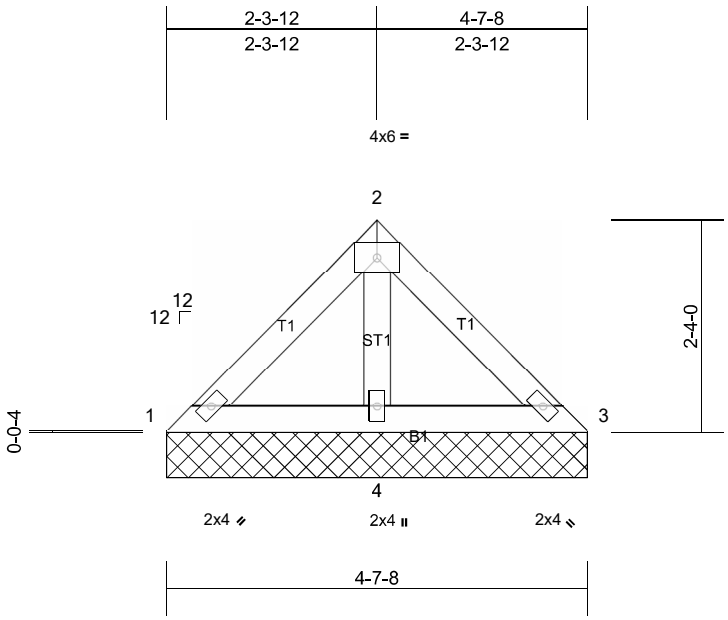
REACTIONS (lb/size) 1=31/7-3-8, (min. 0-1-8), 3=31/7-3-8, (min. 0-1-8), 4=399/7-3-8, (min. 0-1-8)
Max Horiz 1=-69 (LC 10)
Max Uplift 1=-7 (LC 32), 3=-7 (LC 31), 4=-103 (LC 14)
Max Grav 1=66 (LC 31), 3=66 (LC 32), 4=505 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-356/236

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 3-8-0, Exterior(2R) 3-8-0 to 6-7-9, Interior (1) 6-7-9 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
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
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 7 lb uplift at joint 1, 7 lb uplift at joint 3 and 103 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	V2B	Valley	1	1	Job Reference (optional)



Scale = 1:25.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 18 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-7-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

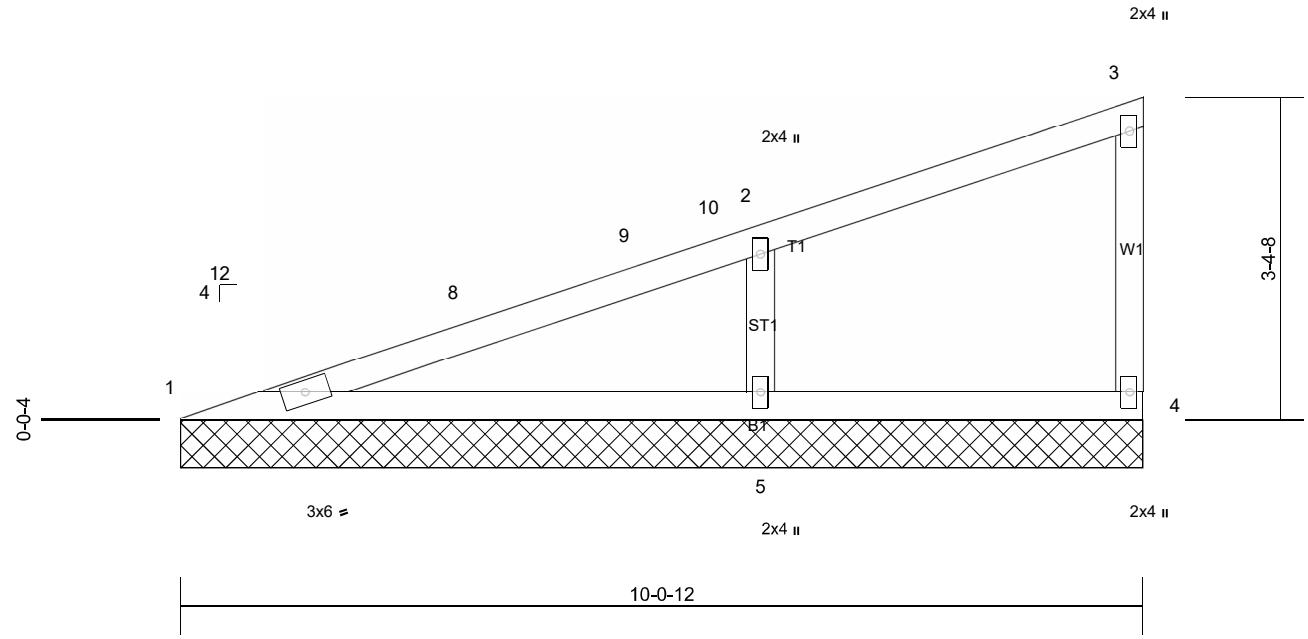
REACTIONS (lb/size) 1=39/4-7-8, (min. 0-1-8), 3=39/4-7-8, (min. 0-1-8), 4=214/4-7-8, (min. 0-1-8)
Max Horiz 1=43 (LC 13)
Max Uplift 3=-2 (LC 15), 4=-44 (LC 14)
Max Grav 1=60 (LC 31), 3=60 (LC 32), 4=270 (LC 2)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
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 2 lb uplift at joint 3 and 44 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	VM1	Valley	1	1	Job Reference (optional)



Scale = 1:24.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.38	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.01	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 36 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP 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.

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

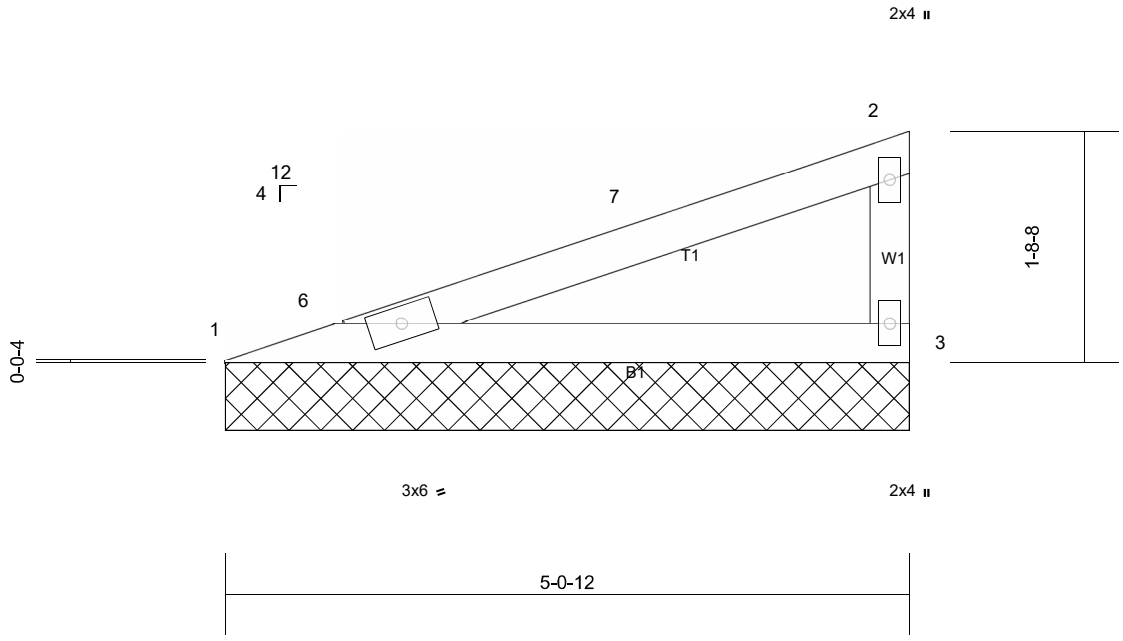
REACTIONS (lb/size) 1=155/10-0-12, (min. 0-1-8), 4=64/10-0-12, (min. 0-1-8), 5=407/10-0-12, (min. 0-1-8)
Max Horiz 1=106 (LC 13)
Max Uplift 1=-18 (LC 12), 4=-13 (LC 13), 5=-103 (LC 16)
Max Grav 1=196 (LC 2), 4=100 (LC 22), 5=516 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-433/101
BOT CHORD 1-5=-155/404
WEBS 2-5=-346/196

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 9-11-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Gable requires continuous bottom chord bearing.
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 13 lb uplift at joint 4, 18 lb uplift at joint 1 and 103 lb uplift at joint 5.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	VM2	Valley	1	1	Job Reference (optional)



Scale = 1:17.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.36	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	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 16 lb	FT = 20%

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

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

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

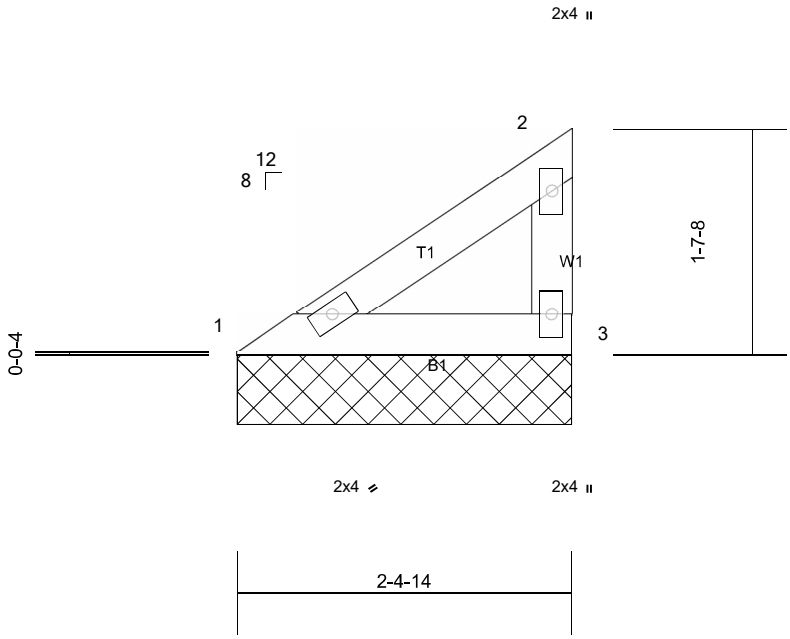
REACTIONS (lb/size) 1=155/5-0-12, (min. 0-1-8), 3=155/5-0-12, (min. 0-1-8)
Max Horiz 1=49 (LC 13)
Max Uplift 1=-29 (LC 12), 3=-36 (LC 16)
Max Grav 1=204 (LC 22), 3=204 (LC 22)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-450/176, 1-6=-434/179
BOT CHORD 1-3=-279/420

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 4-11-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Gable requires continuous bottom chord bearing.
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 36 lb uplift at joint 3 and 29 lb uplift at joint 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	VM3	Valley	1	1	Job Reference (optional)



Scale = 1:16.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 9 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-4-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

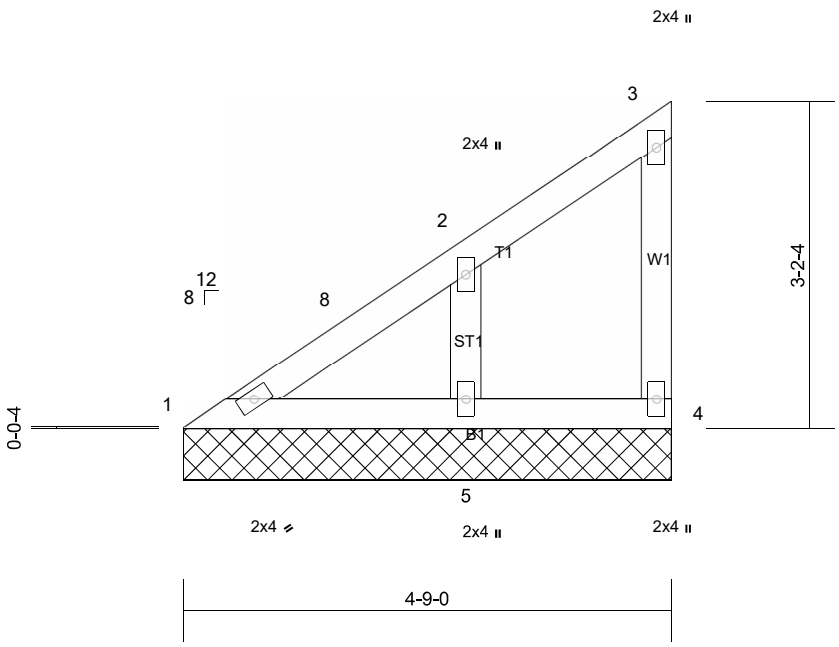
REACTIONS (lb/size) 1=71/2-4-14, (min. 0-1-8), 3=71/2-4-14, (min. 0-1-8)
Max Horiz 1=39 (LC 11)
Max Uplift 1=-8 (LC 14), 3=-22 (LC 14)
Max Grav 1=90 (LC 2), 3=94 (LC 25)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
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 22 lb uplift at joint 3 and 8 lb uplift at joint 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42287	VM4	Valley	1	1	Job Reference (optional)



Scale = 1:22.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 21 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

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

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

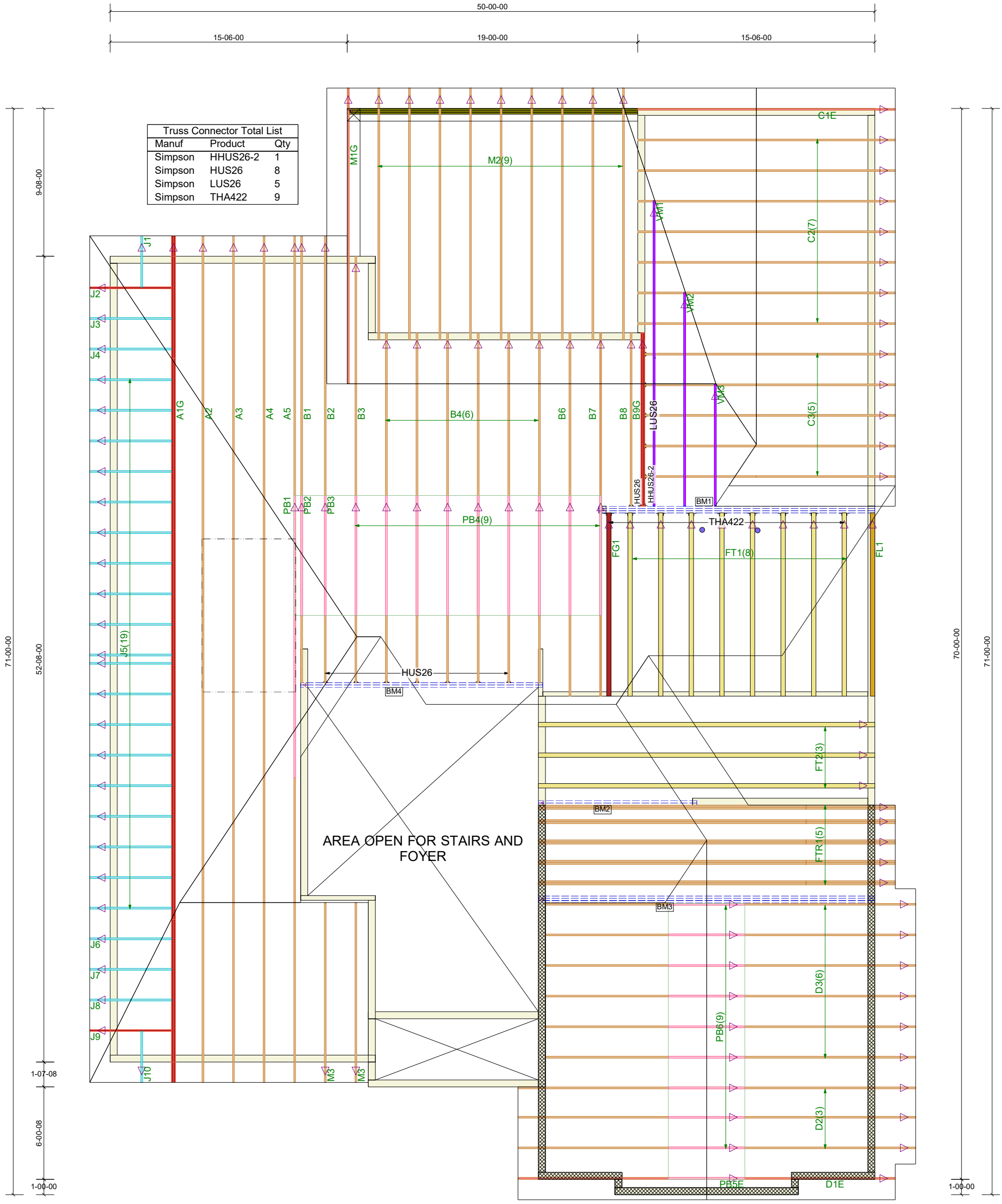
REACTIONS (lb/size) 1=71/4-9-0, (min. 0-1-8), 4=34/4-9-0, (min. 0-1-8), 5=186/4-9-0, (min. 0-1-8)
Max Horiz 1=87 (LC 11)
Max Uplift 4=-17 (LC 11), 5=-71 (LC 14)
Max Grav 1=95 (LC 26), 4=51 (LC 25), 5=239 (LC 25)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-6 to 2-9-6, Exterior(2N) 2-9-6 to 4-7-10 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 17 lb uplift at joint 4 and 71 lb uplift at joint 5.

LOAD CASE(S) Standard

Truss Connector Total List		
Manuf	Product	Qty
Simpson	HHUS26-2	1
Simpson	HUS26	8
Simpson	LUS26	5
Simpson	THA422	9



Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
BM3	22-00-00	1-3/4" x 16" VERSA-LAM® LVL 2.1E 3100 SP	3	3	FF
BM1	20-00-00	1-3/4" x 16" VERSA-LAM® LVL 2.1E 3100 SP	3	3	FF
BM4	16-00-00	1-3/4" x 16" VERSA-LAM® LVL 2.1E 3100 SP	2	2	FF
BM2	12-00-00	1-3/4" x 16" VERSA-LAM® LVL 2.1E 3100 SP	2	2	FF

Roof Truss Placement Plan

NOT TO SCALE

DESIGNED DATE

9/17/2026

Sheet # 1 of 1

TRUSS INSTALLATION REQUIRES TEMPORARY AND PERMANENT BRACING. GENERAL GUIDANCE IS PROVIDED IN SBCA DOC's B-1 and B-3. THESE ARE INCLUDED WITH EACH JOB IN YOUR TRUSS PACKET.

DO NOT CUT, NOTCH, OR BORE HOLES UNLESS SPECIFIC, WRITTEN PERMISSION IS PROVIDED BY AN AUTHORIZED REPRESENTATIVE OF 84 LUMBER.

Designer: JPS

Location: 2383-Dunn

Park Square Homes

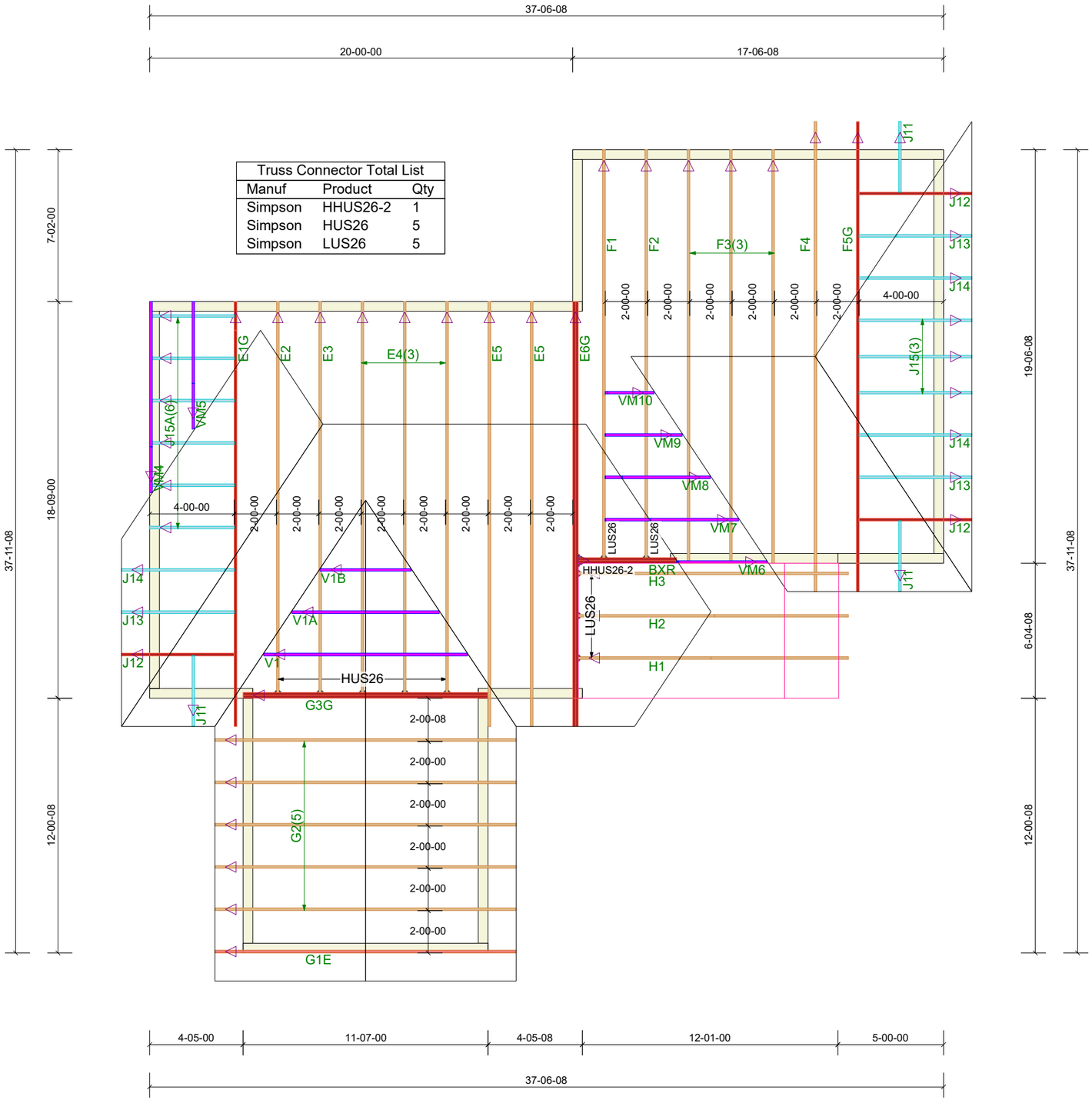
Plan 1 - Carolina Acre

Elev. C - Traditional

Job# - 2606610-42286

84 LUMBER

84 Components
200 Emmett Rd
Dunn NC 28334
United States
Office: (910) 892-8400



84 LUMBER

84 Components
200 Emmett Rd
Dunn NC 28334
United States
Office: (910) 892-8400

Park Square Homes

Plan 1 - Carolina Acre

Elev C - Traditional

Job# - 2606610-42286

Location	2383-Dunn
Designer	JPS

DO NOT CUT, NOTCH, OR BORE HOLES UNLESS SPECIFIC, WRITTEN PERMISSION IS PROVIDED BY AN AUTHORIZED REPRESENTATIVE OF 84 LUMBER.

TRUSS INSTALLATION REQUIRES TEMPORARY AND PERMANENT BRACING. GENERAL GUIDANCE IS PROVIDED IN SBCA DOC's B-1 and B-3. THESE ARE INCLUDED WITH EACH JOB IN YOUR TRUSS PACKET.

Sheet # 1 of 1

Roof Truss Placement Plan

NOT TO SCALE

DESIGNED DATE

9/17/2026

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	A1G	Roof Special Girder	1	2	Job Reference (optional)

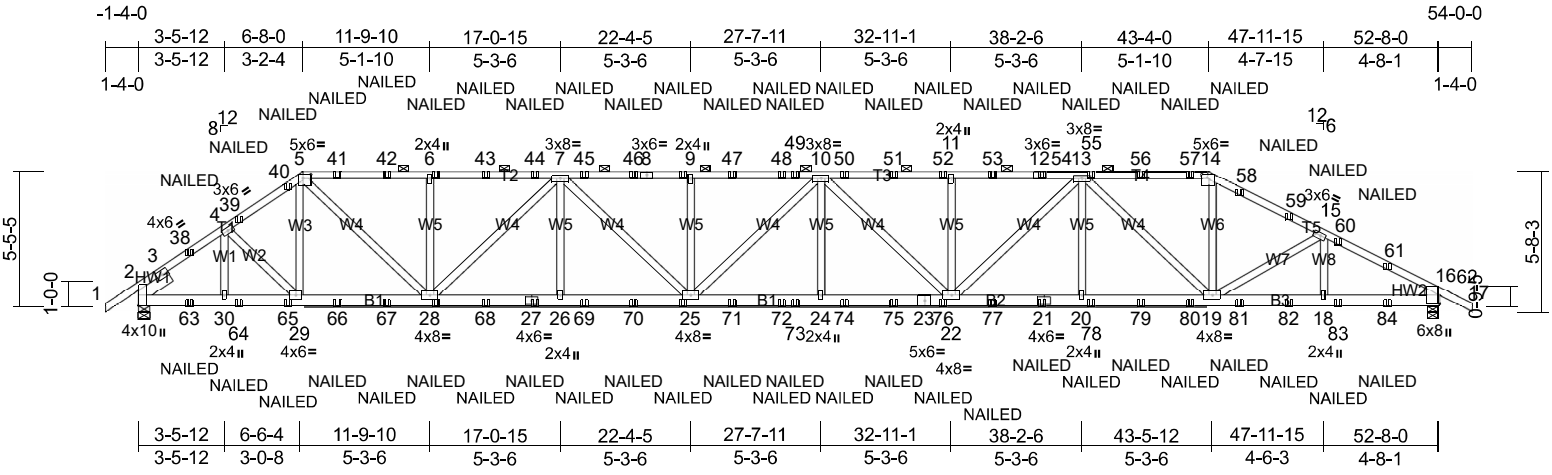


Plate Offsets (X, Y): [2:Edge,0-0-0], [5:0-3-12,0-2-0], [14:0-3-0,0-2-0], [16:Edge,0-0-3]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	0.58	24-25	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.69	24-25	>911	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.47	Horz(CT)	0.14	16	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 724 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
WEDGE Right: 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -- 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-2-5 oc purlins, except 0-0-0 oc purlins (4-4-4 max.): 5-14.
BOT CHORD Rigid ceiling directly applied or 7-6-7 oc bracing.

REACTIONS (lb/size) 2=2584/0-5-8, (min. 0-1-12), 16=2563/0-5-8, (min. 0-1-11)
Max Horiz 2=-114 (LC 10)
Max Uplift 2=-1522 (LC 9), 16=-1428 (LC 8)
Max Grav 2=2946 (LC 29), 16=2905 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2454/1335, 3-38=-3814/2077, 4-38=-3722/2075, 4-39=-4179/2378, 39-40=-4157/2358, 5-40=-4060/2333, 5-41=-5419/3173, 41-42=-5419/3173, 6-42=-5419/3173, 6-43=-5419/3173, 43-44=-5419/3173, 7-44=-5419/3173, 7-45=-7668/4515, 45-46=-7668/4515, 8-46=-7668/4515, 8-9=-7668/4515, 9-47=-7668/4515, 47-48=-7668/4515, 48-49=-7668/4515, 10-49=-7668/4515, 10-50=-7332/4275, 50-51=-7332/4275, 51-52=-7332/4275, 11-52=-7332/4275, 11-53=-7332/4275, 12-53=-7332/4275, 12-54=-7332/4275, 13-54=-7332/4275, 13-55=-4457/2527, 55-56=-4457/2527, 56-57=-4457/2527, 14-57=-4457/2527, 14-58=-5004/2815, 58-59=-5062/2828, 15-59=-5106/2844, 15-60=-4848/2586, 60-61=-4904/2588, 16-61=-4960/2595
BOT CHORD 2-63=-1677/3118, 30-63=-1677/3118, 30-64=-1677/3118, 64-65=-1677/3118, 29-65=-1677/3118, 29-66=-1940/3533, 66-67=-1940/3533, 28-67=-1940/3533, 28-68=-3977/6958, 27-68=-3977/6958, 26-27=-3977/6958, 26-69=-3977/6958, 69-70=-3977/6958, 25-70=-3977/6958, 25-71=-4570/7943, 71-72=-4570/7943, 72-73=-4570/7943, 24-73=-4570/7943, 24-74=-4570/7943, 74-75=-4570/7943, 23-75=-4570/7943, 23-76=-4570/7943, 22-76=-4570/7943, 22-77=-3509/6259, 21-77=-3509/6259, 20-21=-3509/6259, 20-78=-3509/6259, 78-79=-3509/6259, 79-80=-3509/6259, 19-80=-3509/6259, 19-81=-2267/4362, 81-82=-2267/4362, 18-82=-2267/4362, 18-83=-2267/4362, 83-84=-2267/4362, 16-84=-2267/4362
WEBS 4-30=-630/401, 4-29=-420/605, 5-28=-1677/2796, 6-28=-483/329, 7-28=-2023/1214, 7-26=-59/308, 7-25=-690/1123, 9-25=-423/326, 10-25=-276/178, 10-24=-77/331, 10-22=-757/498, 11-22=-401/300, 13-22=-973/1578, 13-20=-33/278, 13-19=-2443/1497, 14-19=-1034/1907, 15-19=-265/285, 15-18=-368/290

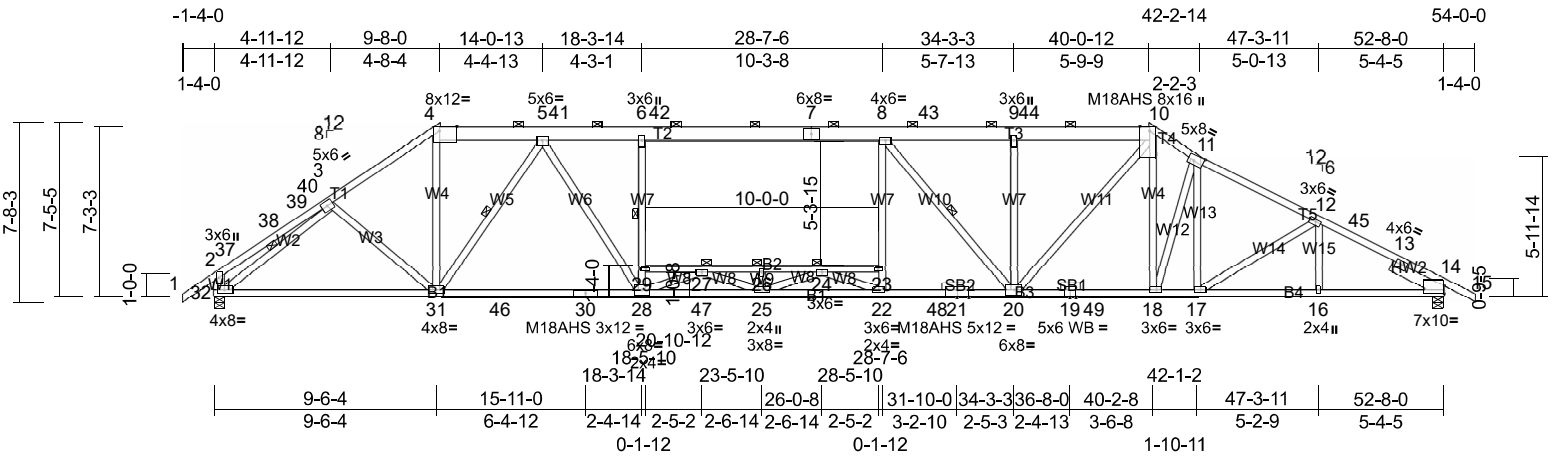
NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
6) Unbalanced snow loads have been considered for this design.
7) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
8) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
9) Provide adequate drainage to prevent water ponding.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * 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.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1522 lb uplift at joint 2 and 1428 lb uplift at joint 16.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) "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: 1-5=-43, 5-14=-53, 14-17=-43, 31-35=-20
Concentrated Loads (lb)

Continued on page 2

Vert: 27=-18 (F), 28=-18 (F), 6=-16 (F), 25=-18 (F), 9=-16 (F), 12=-16 (F), 21=-18 (F), 38=-107 (F), 39=-80 (F), 40=-72 (F), 41=-16 (F), 42=-16 (F), 43=-16 (F), 44=-16 (F), 45=-16 (F), 46=-16 (F), 47=-16 (F), 48=-16 (F), 49=-16 (F), 50=-16 (F), 51=-16 (F), 52=-16 (F), 53=-16 (F), 55=-16 (F), 56=-16 (F), 57=-17 (F), 58=-62 (F), 59=-76 (F), 60=-101 (F), 61=-44 (F), 63=-24 (F), 64=-21 (F), 65=-22 (F), 66=-18 (F), 67=-18 (F), 68=-18 (F), 69=-18 (F), 70=-18 (F), 71=-18 (F), 72=-18 (F), 73=-18 (F), 74=-18 (F), 75=-18 (F), 76=-18 (F), 77=-18 (F), 78=-18 (F), 79=-18 (F), 80=-18 (F), 81=-21 (F), 82=-21 (F), 83=-24 (F), 84=-20 (F)

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	A2	Attic	1	1	Job Reference (optional)



Scale = 1:98.7

Plate Offsets (X, Y): [4:0-8-13,Edge], [10:0-2-1,Edge], [11:0-5-4,0-3-0], [14:Edge,0-3-15]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.62	20-22	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-1.13	20-22	>559	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.28	14	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS		Attic	-0.25	23-29	>503	360		
BCDL	10.0										Weight: 401 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* T2,T3:2x8 SP DSS, T5:2x4 SP DSS
BOT CHORD 2x4 SP DSS *Except* B2:2x4 SP No.2
WEBS 2x4 SP No.2 *Except* W1:2x6 SP No.2
OTHERS 2x4 SP No.2
SLIDER Right 2x6 SP No.2 -- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-0-9 oc purlins, except end verticals, and 0-0-0 oc purlins (3-6-11 max.): 4-10.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
4-10-10 oc bracing: 26-27
4-10-11 oc bracing: 24-26
6-0-0 oc bracing: 23-24.
WEBS 1 Row at midpt 5-31, 6-29, 8-20, 3-32
JOINTS 1 Brace at Jt(s): 26, 27, 24

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

REACTIONS (lb/size) 14=2042/0-5-8, (min. 0-3-3), 32=2119/0-5-8, (min. 0-3-5)
Max Horiz 32=-169 (LC 14)
Max Uplift 14=-70 (LC 12), 32=-56 (LC 13)
Max Grav 14=2722 (LC 3), 32=2818 (LC 3)

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

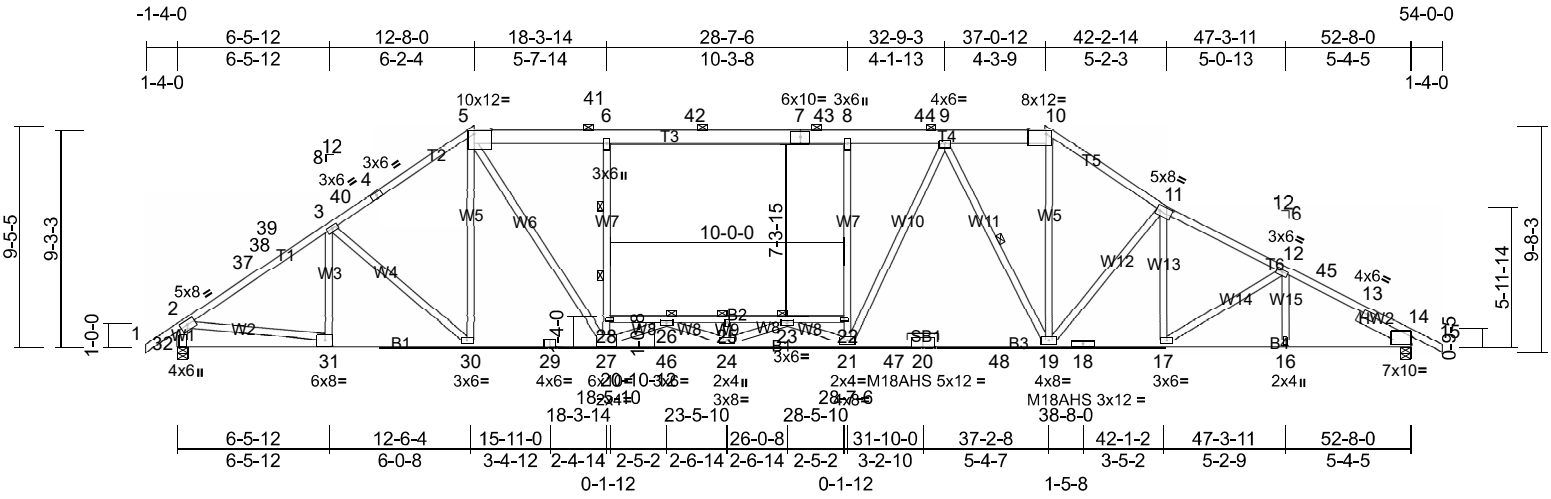
TOP CHORD 2-37=-594/52, 37-38=-570/62, 38-39=-499/73, 39-40=-464/77, 3-40=-452/80, 3-4=-3846/167, 4-5=-3143/176, 5-41=-5473/144, 6-41=-5473/144, 6-42=-5518/143, 7-42=-5518/143, 7-8=-5518/143, 8-43=-5083/203, 9-43=-5083/203, 9-44=-5094/206, 10-44=-5093/208, 10-11=-4537/243, 11-12=-4584/222, 12-45=-4566/218, 13-45=-4631/206, 13-14=-1331/40, 2-32=-536/128
BOT CHORD 31-32=-111/2956, 31-46=-104/4270, 30-46=-104/4270, 28-30=-104/4270, 28-47=0/6054, 25-47=0/6054, 22-25=0/6291, 22-48=-91/5538, 21-48=-91/5538, 20-21=-91/5538, 19-20=-38/3806, 19-49=-38/3806, 18-49=-38/3806, 17-18=-56/4082, 16-17=-104/4023, 14-16=-104/4023, 27-29=-27/313, 26-27=-1300/0, 24-26=-1300/0
WEBS 3-31=-69/442, 4-31=-19/1850, 5-31=-2091/113, 5-28=-113/2332, 28-29=-1300/188, 6-29=-1204/253, 22-23=0/594, 8-23=0/773, 8-20=-826/24, 9-20=-830/148, 10-20=-100/2063, 10-18=-101/869, 11-18=-764/131, 12-17=-134/259, 3-32=-3350/94, 25-26=-291/0, 27-28=-1056/0, 25-27=0/618, 24-25=0/392, 22-24=-903/0

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 3-11-3, Interior (1) 3-11-3 to 9-8-0, Exterior(2R) 9-8-0 to 14-11-3, Interior (1) 14-11-3 to 40-0-12, Exterior(2E) 40-0-12 to 42-2-14, Interior (1) 42-2-14 to 54-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
11) Wall dead load (5.0psf) on member(s).6-29, 8-23
12) Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 27-29, 26-27, 24-26, 23-24
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 32 and 70 lb uplift at joint 14.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
15) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	A3	Attic	1	1	Job Reference (optional)



Scale = 1:98.4

Plate Offsets (X, Y): [5:0-8-13,Edge], [10:0-8-13,Edge], [11:0-6-4,0-2-12], [14:Edge,0-3-15], [31:0-3-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.71	19-21	>884	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-1.26	19-21	>500	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.24	14	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS		Attic	-0.30	22-28	>413	360		
BCDL	10.0										Weight: 401 lb	FT = 20%

LUMBER

TOP CHORD 2x8 SP DSS *Except* T2:2x4 SP No.1, T5,T1:2x4 SP No.2, T6:2x4 SP DSS
BOT CHORD 2x4 SP DSS *Except* B2:2x4 SP No.2
WEBS 2x4 SP No.2 *Except* W1:2x6 SP No.2
OTHERS 2x4 SP No.2
SLIDER Right 2x6 SP No.2 -- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 0-0-0 oc purlins (3-10-9 max.): 5-10.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
4-11-13 oc bracing: 25-26
4-11-14 oc bracing: 23-25
6-0-0 oc bracing: 22-23.
WEBS 1 Row at midpt 9-19
WEBS 2 Rows at 1/3 pts 6-28
JOINTS 1 Brace at Jt(s): 25, 23, 26

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

REACTIONS (lb/size) 14=2094/0-5-8, (min. 0-3-5), 32=2207/0-5-8, (min. 0-3-7)
Max Horiz 32=-209 (LC 14)
Max Uplift 14=-21 (LC 17)
Max Grav 14=2795 (LC 3), 32=2935 (LC 3)

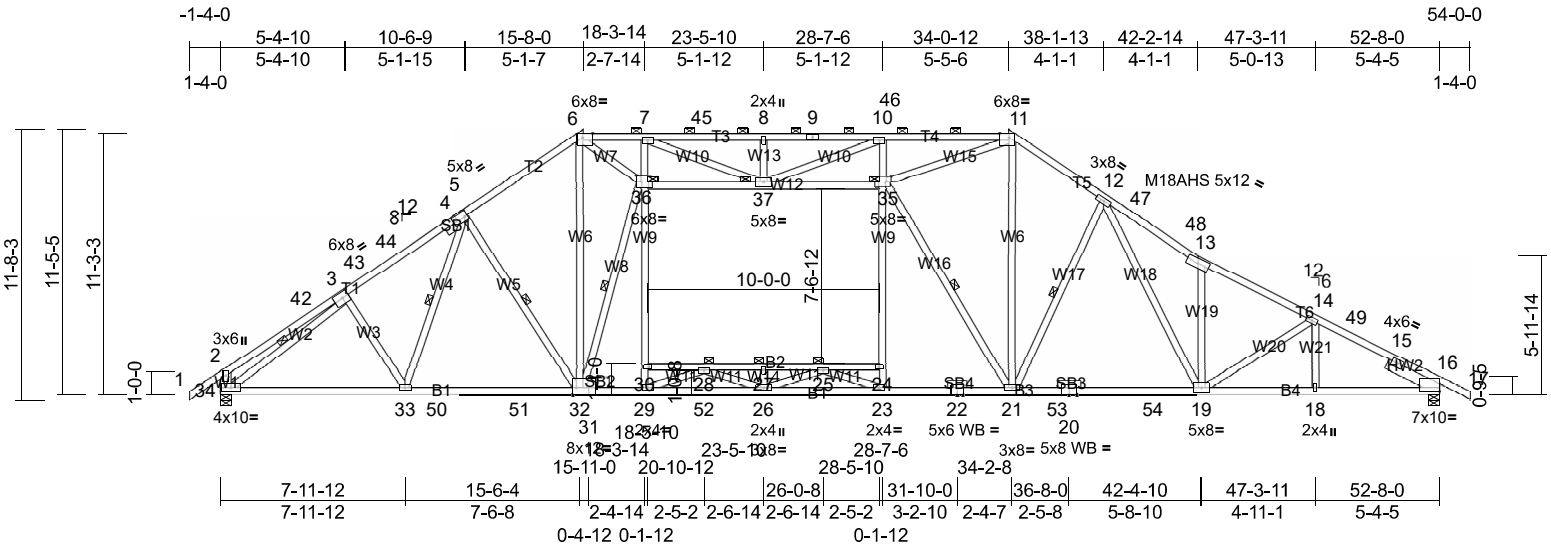
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-37=-4023/14, 37-38=-3925/16, 38-39=-3920/21, 3-39=-3912/38, 3-40=-3930/15, 4-40=-3874/24, 4-5=-3827/51, 5-41=-4481/17, 6-41=-4482/13, 6-42=-4488/12, 7-42=-4488/12, 7-43=-4488/12, 8-43=-4488/12, 8-44=-4502/14, 9-44=-4502/14, 9-10=-3586/125, 10-11=-4373/119, 11-12=-4728/114, 12-45=-4706/117, 13-45=-4771/104, 13-14=-1355/20, 2-32=-2819/97
BOT CHORD 31-32=-167/521, 30-31=0/3266, 29-30=0/3211, 27-29=0/3211, 27-46=0/5062, 24-46=0/5062, 21-24=0/5258, 21-47=0/4219, 20-47=0/4219, 20-48=0/4219, 19-48=0/4219, 18-19=0/4212, 17-18=0/4212, 16-17=-16/4144, 14-16=-16/4144, 25-26=-1264/0, 23-25=-1264/0
WEBS 3-30=-282/191, 5-30=-92/401, 5-27=-61/2454, 27-28=-1452/128, 6-28=-1363/214, 21-22=-409/164, 8-22=-355/337, 9-21=0/836, 9-19=-1544/25, 10-19=0/2273, 11-19=-904/157, 2-31=0/2933, 24-25=-277/0, 21-23=-903/0, 23-24=0/358, 24-26=0/552, 26-27=-1022/0

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 3-11-3, Interior (1) 3-11-3 to 12-8-0, Exterior(2R) 12-8-0 to 17-11-3, Interior (1) 17-11-3 to 37-0-12, Exterior(2E) 37-0-12 to 42-2-14, Interior (1) 42-2-14 to 54-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
11) Ceiling dead load (5.0 psf) on member(s). 5-6, 6-8; Wall dead load (5.0psf) on member(s).6-28, 8-22
12) Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 26-28, 25-26, 23-25, 22-23
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 14.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
15) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	A4	Attic	1	1	Job Reference (optional)



Scale = 1:99.6

Plate Offsets (X, Y): [3:0-3-8,0-3-0], [4:0-1-8,0-3-0], [6:0-4-13,Edge], [11:0-4-13,Edge], [16:Edge,0-3-15], [31:0-2-0,Edge], [35:0-2-8,0-2-8], [36:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.43	19-21	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.81	24-25	>774	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.27	16	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS		Attic	-0.10	24-30	>999	360		
BCDL	10.0										Weight: 443 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* T6:2x4 SP DSS, T4:2x4 SP No.1
BOT CHORD 2x4 SP No.1 *Except* B2:2x4 SP No.2, B4,B3:2x4 SP DSS
WEBS 2x4 SP No.2 *Except* W1:2x6 SP No.2
OTHERS 2x4 SP No.2 *Except* SB2:2x6 SP No.2
SLIDER Right 2x6 SP No.2 -- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals, and 0-0-0 oc purlins (2-6-8 max.): 6-11.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 21-35, 12-21, 3-34, 5-33, 5-32, 32-36
JOINTS 1 Brace at Jt(s): 35, 36, 27, 28, 25, 37

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

REACTIONS (lb/size) 16=2053/0-5-8, (min. 0-3-5), 34=2139/0-5-8, (min. 0-3-7)
Max Horiz 34=-249 (LC 14)
Max Uplift 16=-51 (LC 17)
Max Grav 16=2810 (LC 3), 34=2916 (LC 3)

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

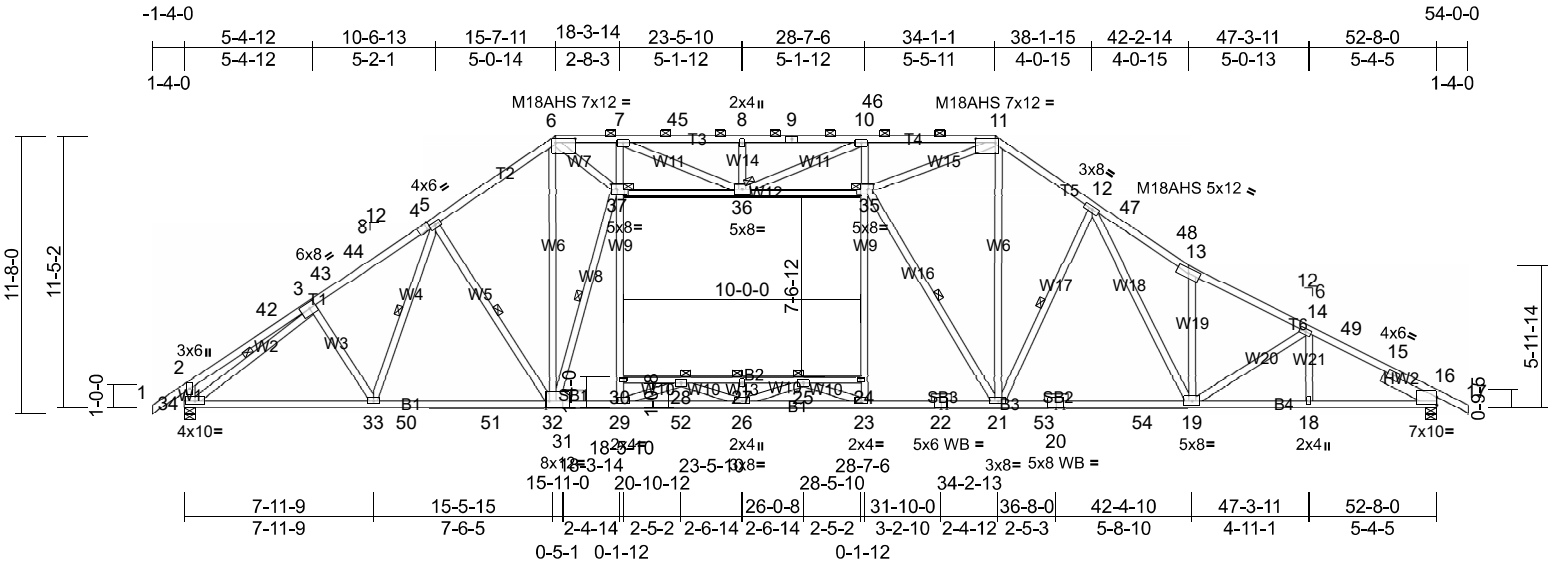
TOP CHORD 2-42=-583/98, 3-42=-481/115, 3-43=-3969/76, 43-44=-3903/88, 4-44=-3903/105, 4-5=-3822/108, 5-6=-3712/109, 6-7=-2465/29, 7-45=-3726/87, 8-45=-3726/87, 8-9=-3726/87, 9-10=-3726/87, 10-46=-4187/54, 11-46=-4186/55, 11-12=-3986/155, 12-47=-5101/214, 47-48=-5147/199, 13-48=-5202/190, 13-14=-4791/131, 14-49=-4717/138, 15-49=-4783/125, 15-16=-1411/27, 2-34=-542/143
BOT CHORD 33-34=-14/3162, 33-50=0/3203, 50-51=0/3203, 32-51=0/3203, 31-32=0/3581, 29-31=0/3581, 29-52=0/4293, 26-52=0/4293, 23-26=0/4399, 22-23=0/3602, 21-22=0/3602, 21-53=0/3654, 20-53=0/3654, 20-54=0/3654, 19-54=0/3654, 18-19=-51/4157, 16-18=-51/4157, 27-28=-1441/0, 25-27=-1441/0
WEBS 6-32=-68/2340, 29-30=0/522, 30-36=0/699, 7-36=-912/192, 23-24=0/649, 24-35=0/849, 10-35=-459/207, 21-35=-807/85, 11-21=-46/1597, 12-21=-877/217, 12-19=-174/1408, 13-19=-987/123, 14-19=-101/291, 36-37=-1306/177, 35-37=-200/770, 3-33=-28/349, 3-34=-3580/0, 5-32=-470/212, 32-36=-2110/133, 6-36=-851/194, 11-35=-84/1091, 26-27=-274/0, 28-29=-1099/0, 26-28=0/629, 25-26=0/519, 23-25=-1069/0, 8-37=-396/97, 7-37=-279/1527, 10-37=-711/128

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 3-11-3, Interior (1) 3-11-3 to 15-8-0, Exterior(2R) 15-8-0 to 20-11-3, Interior (1) 20-11-3 to 34-0-12, Exterior(2R) 34-0-12 to 39-3-15, Interior (1) 39-3-15 to 54-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) All plates are 3x6 (=) MT20 unless otherwise indicated.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * 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.
12) Ceiling dead load (5.0 psf) on member(s). 36-37, 35-37; Wall dead load (5.0psf) on member(s).30-36, 24-35
13) Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 28-30, 27-28, 25-27, 24-25
14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 16.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	A5	Attic	1	1	Job Reference (optional)



Scale = 1:96.9

Plate Offsets (X, Y): [3:0-3-7,0-3-0], [4:0-1-10,Edge], [6:0-9-12,0-2-0], [11:0-9-12,0-2-0], [16:Edge,0-3-15], [31:0-1-12,Edge], [35:0-2-8,0-2-8], [37:0-2-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.43	19-21	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.80	24-25	>788	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.27	16	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS		Attic	-0.09	24-30	>999	360		
BCDL	10.0										Weight: 443 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* T6:2x4 SP DSS, T4:2x4 SP No.1
BOT CHORD 2x4 SP No.1 *Except* B2:2x4 SP No.2, B4,B3:2x4 SP DSS
WEBS 2x4 SP No.2 *Except* W1:2x6 SP No.2
OTHERS 2x4 SP No.2 *Except* SB1:2x6 SP No.2
SLIDER Right 2x6 SP No.2 -- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals, and 0-0-0 oc purlins (2-6-9 max.): 6-11.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 21-35, 12-21, 3-34, 5-33, 5-32, 32-37
JOINTS 1 Brace at Jt(s): 35, 36, 27, 28, 25, 37

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

REACTIONS (lb/size) 16=2053/0-5-8, (min. 0-3-5), 34=2139/0-5-8, (min. 0-3-7)
Max Horiz 34=-251 (LC 14)
Max Uplift 16=-51 (LC 17)
Max Grav 16=2810 (LC 3), 34=2916 (LC 3)

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

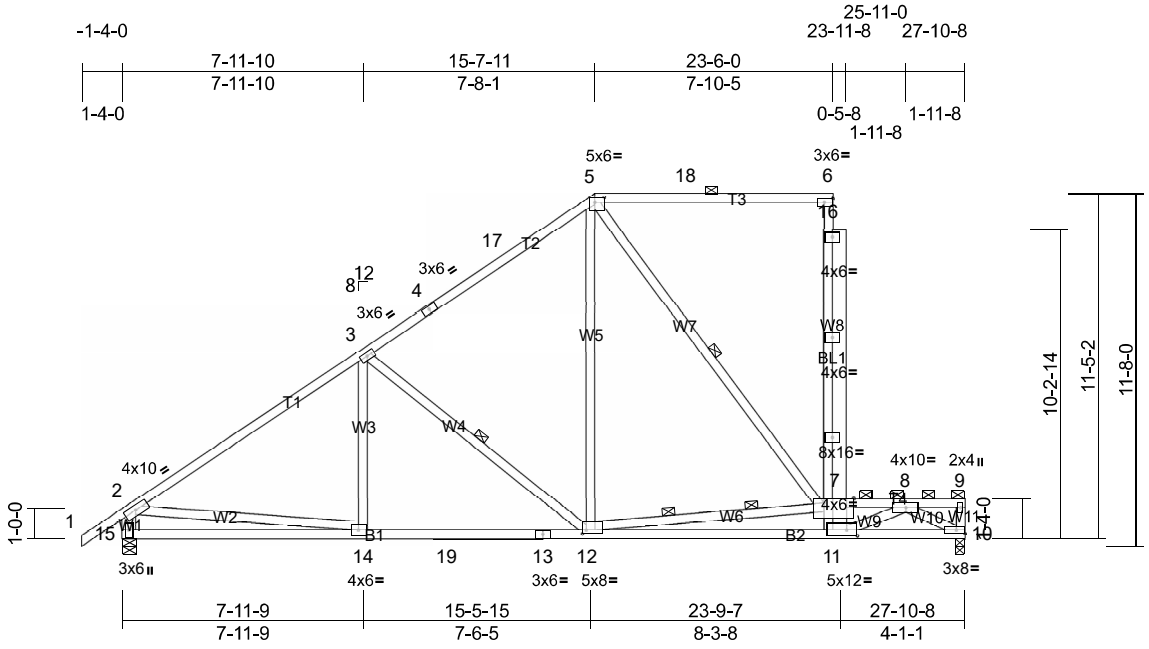
TOP CHORD 2-42=-584/98, 3-42=-481/115, 3-43=-3969/77, 43-44=-3904/89, 4-44=-3903/106, 4-5=-3822/108, 5-6=-3715/111, 6-7=-2527/33, 7-45=-3719/88, 8-45=-3719/88, 8-9=-3719/88, 9-10=-3719/88, 10-46=-4149/58, 11-46=-4149/58, 11-12=-4001/158, 12-47=-5100/214, 47-48=-5146/199, 13-48=-5202/190, 13-14=-4790/131, 14-49=-4717/138, 15-49=-4782/126, 15-16=-1410/27, 2-34=-542/143
BOT CHORD 33-34=-15/3164, 33-50=0/3201, 50-51=0/3201, 32-51=0/3201, 31-32=0/3518, 29-31=0/3518, 29-52=0/4235, 26-52=0/4235, 23-26=0/4333, 22-23=0/3537, 21-22=0/3537, 21-53=0/3655, 20-53=0/3655, 20-54=0/3655, 19-54=0/3655, 18-19=-51/4157, 16-18=-51/4157, 27-28=-1442/0, 25-27=-1442/0
WEBS 6-32=-71/2258, 29-30=0/520, 30-37=0/697, 7-37=-870/201, 23-24=0/653, 24-35=0/853, 10-35=-422/220, 21-35=-741/89, 11-21=-50/1608, 12-21=-951/217, 12-19=-173/1407, 13-19=-987/122, 14-19=-101/291, 36-37=-1150/169, 35-36=-185/788, 8-36=-397/97, 7-36=-264/1440, 10-36=-673/121, 11-35=-72/1092, 26-27=-273/0, 28-29=-1096/0, 26-28=0/623, 25-26=0/521, 23-25=-1073/0, 3-33=-29/348, 3-34=-3580/0, 5-32=-520/211, 32-37=-1974/137, 6-37=-704/183

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 3-11-3, Interior (1) 3-11-3 to 15-7-11, Exterior(2R) 15-7-11 to 20-10-14, Interior (1) 20-10-14 to 34-1-1, Exterior(2R) 34-1-1 to 39-4-4, Interior (1) 39-4-4 to 54-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) All plates are 3x6 (=) MT20 unless otherwise indicated.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * 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.
12) Ceiling dead load (5.0 psf) on member(s). 36-37, 35-36; Wall dead load (5.0psf) on member(s).30-37, 24-35
13) Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 28-30, 27-28, 25-27, 24-25
14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 16.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	B1	Piggyback Base	1	1	Job Reference (optional)



Scale = 1:76.3

Plate Offsets (X, Y): [5:0-3-12,0-2-0], [6:Edge,0-1-8], [7:1-0-0,Edge], [11:0-4-4,0-2-4], [12:0-1-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.34	11-12	>976	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.66	11-12	>497	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.08	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 217 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T3:2x4 SP No.1
BOT CHORD 2x4 SP No.2 *Except* B2:2x4 SP DSS
WEBS 2x4 SP No.2 *Except* W1:2x6 SP No.2
OTHERS 2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-10-9 oc purlins, except end verticals, and 0-0-0 oc purlins (1-6-0 max.): 5-6, 7-11, 7-9.
BOT CHORD Rigid ceiling directly applied or 7-8-4 oc bracing.
WEBS 1 Row at midpt 3-12, 5-7
WEBS 2 Rows at 1/3 pts 7-12

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

REACTIONS (lb/size) 10=1443/0-3-8, (min. 0-1-14), 15=1043/0-5-8, (min. 0-1-11)
Max Horiz 15=536 (LC 15)
Max Uplift 10=-113 (LC 14), 15=-63 (LC 14)
Max Grav 10=1878 (LC 3), 15=1435 (LC 26)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1731/165, 3-4=-1222/158, 4-17=-1105/182, 5-17=-1092/205, 7-11=-1228/259, 7-16=-729/158, 6-16=-726/159, 7-8=-5916/703, 2-15=-1307/165
BOT CHORD 14-15=-592/837, 14-19=-428/1368, 13-19=-428/1368, 12-13=-428/1368, 11-12=-443/4774, 10-11=-292/2975
WEBS 3-14=0/275, 3-12=-621/222, 5-12=-111/1217, 5-7=-1192/240, 7-12=-3949/511, 2-14=0/983, 8-11=-471/3202, 8-10=-3303/320

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 15-7-11, Exterior(2R) 15-7-11 to 18-7-11, Interior (1) 18-7-11 to 27-8-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 10 and 63 lb uplift at joint 15.
10) Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 531 lb down and 82 lb up at 23-7-0 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: 1-2=-43, 2-5=-43, 5-6=-53, 7-9=-83, 10-15=-20
Concentrated Loads (lb)
Vert: 6=-450
3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-50, 2-5=-50, 5-6=-50, 7-9=-140, 14-15=-35, 14-19=-50, 10-19=-35
Concentrated Loads (lb)
Vert: 6=-431

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	B2	Piggyback Base	1	1	Job Reference (optional)

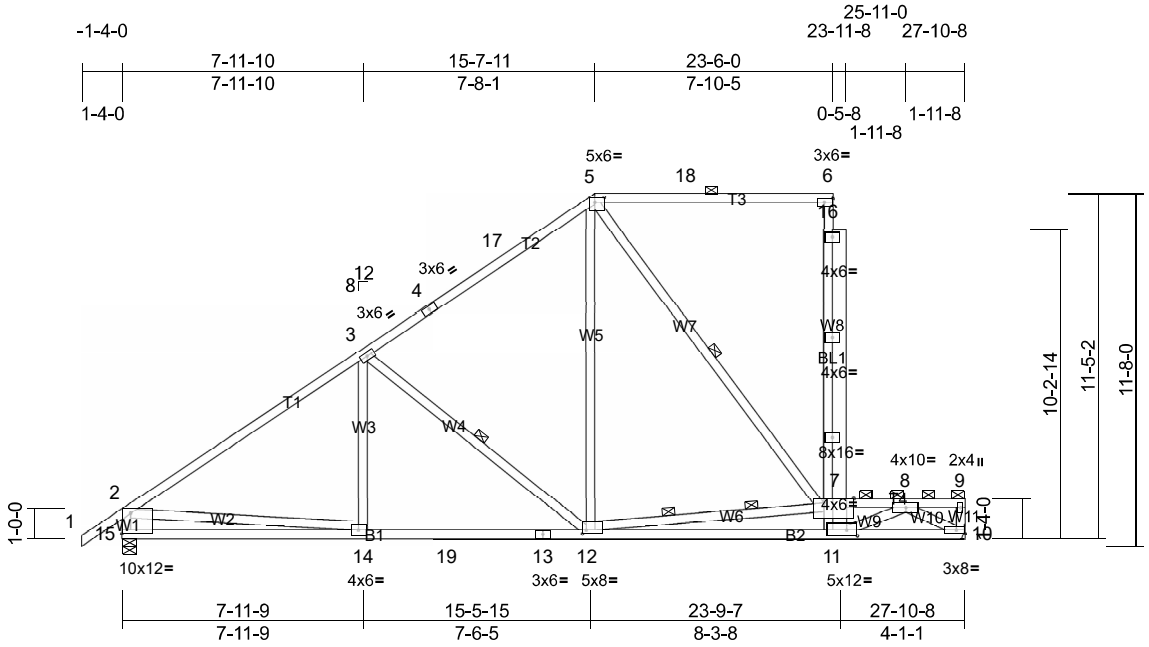


Plate Offsets (X, Y): [5:0-3-12,0-2-0], [6:Edge,0-1-8], [7:1-0-0,Edge], [11:0-4-4,0-2-4], [12:0-1-8,0-1-8], [15:Edge,0-8-2]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.34	11-12	>975	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.67	11-12	>496	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.08	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 216 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T3:2x4 SP No.1
BOT CHORD 2x4 SP No.2 *Except* B2:2x4 SP DSS
WEBS 2x4 SP No.2
OTHERS 2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-9-12 oc purlins, except end verticals, and 0-0-0 oc purlins (1-5-14 max.): 5-6, 7-11, 7-9.
BOT CHORD Rigid ceiling directly applied or 7-7-14 oc bracing.
WEBS 1 Row at midpt 3-12, 5-7
WEBS 2 Rows at 1/3 pts 7-12

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

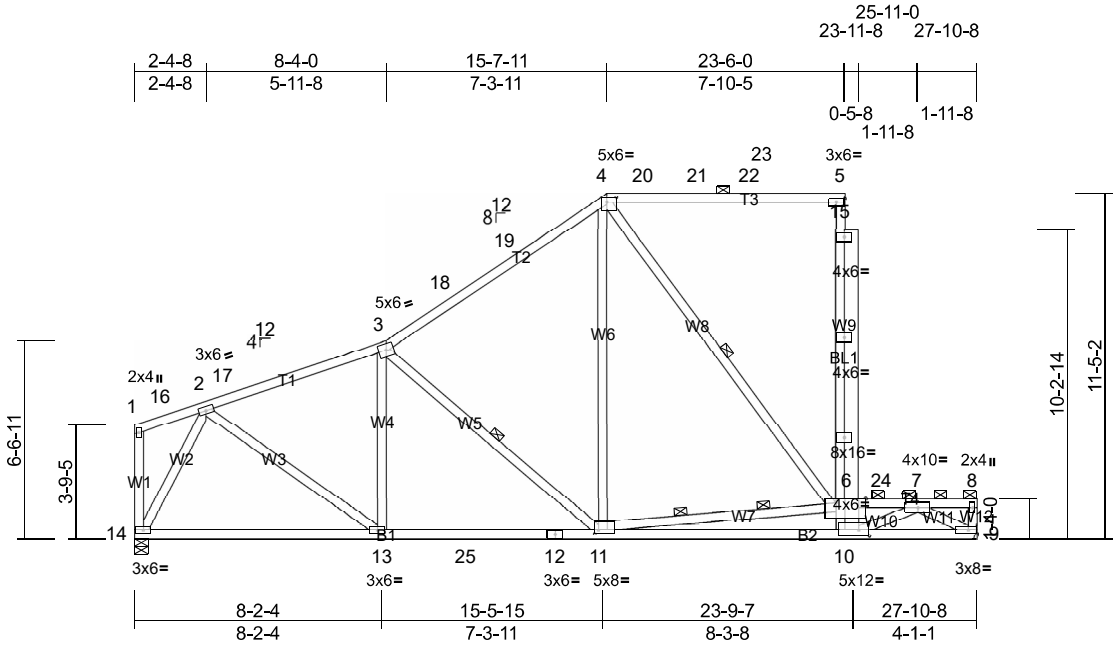
REACTIONS (lb/size) 10=1446/ Mechanical, 15=1041/0-5-8, (min. 0-1-11)
Max Horiz 15=536 (LC 15)
Max Uplift 10=-113 (LC 14), 15=-63 (LC 14)
Max Grav 10=1882 (LC 3), 15=1433 (LC 26)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1750/166, 3-4=-1228/159, 4-17=-1111/183, 5-17=-1099/205, 7-11=-1232/259, 7-16=-729/158, 6-16=-726/159, 7-8=-5932/703, 2-15=-1305/163
BOT CHORD 14-15=-595/842, 14-19=-429/1385, 13-19=-429/1385, 12-13=-429/1385, 11-12=-443/4788, 10-11=-292/2982
WEBS 3-14=0/285, 3-12=-636/223, 5-12=-112/1227, 5-7=-1199/241, 7-12=-3958/512, 2-14=0/980, 8-11=-471/3212, 8-10=-3311/320

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 15-7-11, Exterior(2R) 15-7-11 to 18-7-11, Interior (1) 18-7-11 to 27-8-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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, with BCDL = 10.0psf.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 10 and 63 lb uplift at joint 15.
11) Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 531 lb down and 82 lb up at 23-7-0 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: 1-2=-43, 2-5=-43, 5-6=-53, 7-9=-83, 10-15=-20
Concentrated Loads (lb)
Vert: 6=-450
3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-50, 2-5=-50, 5-6=-50, 7-9=-140, 14-15=-35, 14-19=-50, 10-19=-35
Concentrated Loads (lb)
Vert: 6=-431

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	B3	Piggyback Base	1	1	Job Reference (optional)



Scale = 1:76.3

Plate Offsets (X, Y): [4:0-3-12,0-2-0], [5:Edge,0-1-8], [6:1-0-0,Edge], [10:0-4-4,0-2-4], [11:0-1-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.34	10-11	>978	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.67	10-11	>497	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.08	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 222 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T2,T3:2x4 SP DSS
BOT CHORD 2x4 SP No.2 *Except* B2:2x4 SP DSS
WEBS 2x4 SP No.2
OTHERS 2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-6-12 oc purlins, except end verticals, and 0-0-0 oc purlins (1-5-12 max.): 4-5, 6-10, 6-8.
BOT CHORD Rigid ceiling directly applied or 7-8-2 oc bracing.
WEBS 1 Row at midpt 3-11, 4-6
WEBS 2 Rows at 1/3 pts 6-11

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

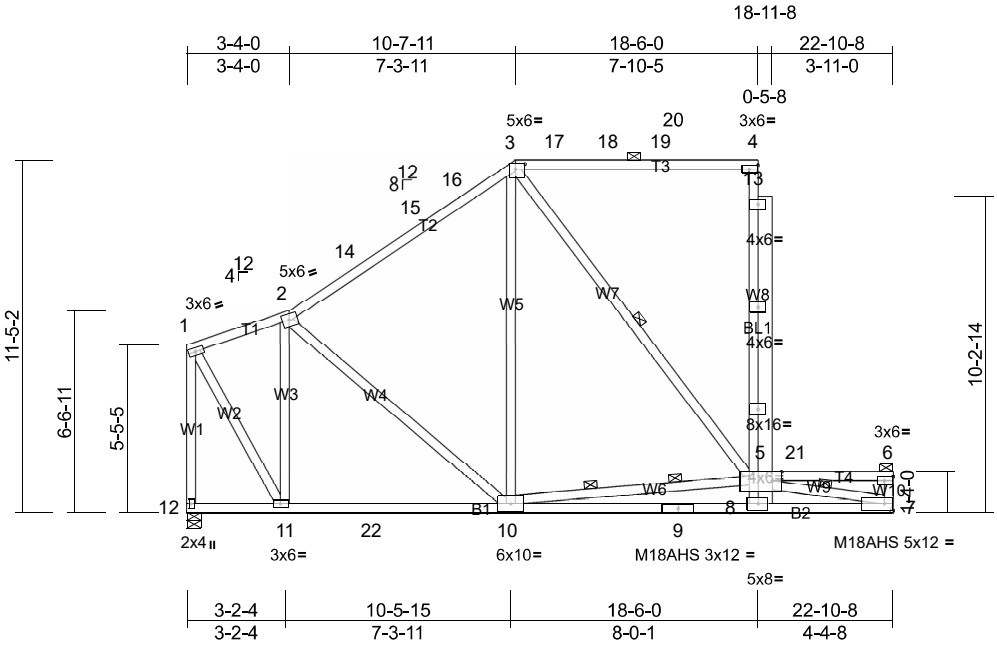
REACTIONS (lb/size) 9=1448/ Mechanical, 14=976/0-5-8, (min. 0-1-8)
Max Horiz 14=516 (LC 17)
Max Uplift 9=-105 (LC 16), 14=-50 (LC 16)
Max Grav 9=1885 (LC 3), 14=1294 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-17=-1396/211, 3-17=-1348/232, 3-18=-1191/250, 18-19=-1094/260, 4-19=-1071/285, 6-10=-1232/371, 6-15=-791/188, 5-15=-787/185, 6-24=-5942/1152, 7-24=-5942/1152
BOT CHORD 13-14=-510/892, 13-25=-475/1283, 12-25=-475/1283, 11-12=-475/1283, 10-11=-795/4784, 9-10=-511/2987
WEBS 2-13=-90/860, 3-13=-290/106, 3-11=-501/175, 4-11=-154/1146, 4-6=-1182/316, 6-11=-3932/821, 2-14=-1298/267, 7-10=-721/3218, 7-9=-3316/565

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 9-9-12 to 12-9-12, Interior (1) 12-9-12 to 25-3-11, Exterior(2R) 25-3-11 to 28-3-11, Interior (1) 28-3-11 to 37-4-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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, with BCDL = 10.0psf.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 105 lb uplift at joint 9 and 50 lb uplift at joint 14.
11) Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 531 lb down and 117 lb up at 33-3-0 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=-43, 3-4=-43, 4-5=-53, 6-8=-83, 9-14=-20
Concentrated Loads (lb)
Vert: 5=-450
3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-50, 3-4=-50, 4-5=-50, 6-8=-140, 13-14=-35, 13-25=-50, 9-25=-35
Concentrated Loads (lb)
Vert: 5=-431

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	B4	Piggyback Base	6	1	Job Reference (optional)



Scale = 1:74.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.30	8-10	>899	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.59	8-10	>456	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 200 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T2:2x4 SP No.1, T3:2x4 SP DSS
BOT CHORD 2x4 SP DSS
WEBS 2x4 SP No.2
OTHERS 2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 0-0-0 oc purlins (6-0-0 max.): 3-4, 5-8, 5-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-5, 5-7
WEBS 2 Rows at 1/3 pts 5-10

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

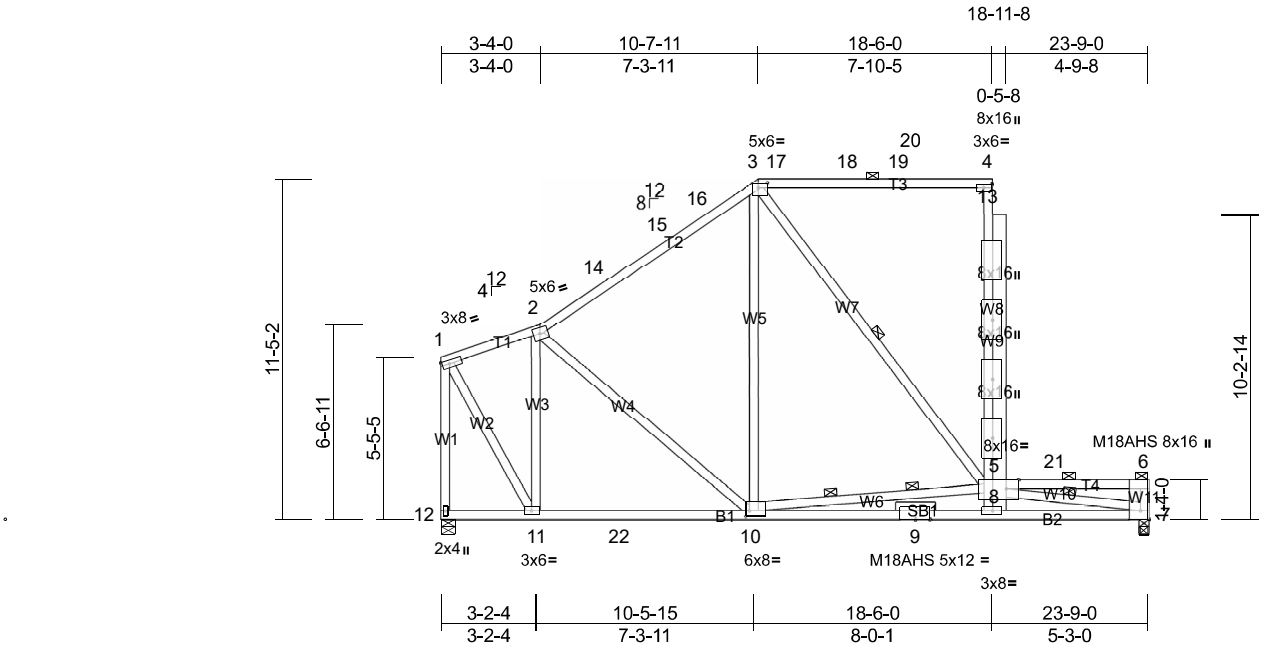
REACTIONS (lb/size) 7=1267/ Mechanical, 12=841/0-5-8, (min. 0-1-8)
Max Horiz 12=511 (LC 17)
Max Uplift 7=-127 (LC 17), 12=-41 (LC 13)
Max Grav 7=1645 (LC 3), 12=1109 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-573/102, 2-14=-894/185, 14-15=-774/194, 15-16=-750/199, 3-16=-713/219, 5-13=-791/196, 4-13=-788/194, 5-21=-322/27, 6-21=-322/27, 6-7=-336/0, 1-12=-1085/195
BOT CHORD 11-12=-471/581, 11-22=-454/799, 10-22=-454/799, 9-10=-805/4040, 8-9=-805/4040, 7-8=-1127/4904
WEBS 2-11=-701/216, 2-10=-48/266, 3-10=-121/696, 3-5=-804/308, 5-10=-3453/741, 1-11=-193/1022, 5-7=-4725/1112

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 14-9-12 to 18-0-0, Interior (1) 18-0-0 to 25-3-11, Exterior(2R) 25-3-11 to 28-3-11, Interior (1) 28-3-11 to 37-4-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 7 and 41 lb uplift at joint 12.
12) Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 531 lb down and 125 lb up at 33-3-0 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: 1-2=-43, 2-3=-43, 3-4=-53, 5-6=-83, 7-12=-20
Concentrated Loads (lb)
Vert: 4=-450
3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-50, 2-3=-50, 3-4=-50, 5-6=-140, 11-12=-35, 11-22=-50, 7-22=-35
Concentrated Loads (lb)
Vert: 4=-431

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	B6	Piggyback Base	1	1	Job Reference (optional)



Scale = 1:77.5

Plate Offsets (X, Y): [3:0-3-12,0-2-0], [4:Edge,0-1-8], [5:0-5-4,Edge], [5:8-0-9,32-10-0], [6:Edge,0-3-8], [10:0-1-8,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.43	8-10	>651	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.84	8-10	>336	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.09	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 206 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T2,T3:2x4 SP DSS
BOT CHORD 2x4 SP DSS
WEBS 2x4 SP No.2 *Except* W9:2x6 SP No.2
OTHERS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 0-0-0 oc purlins (4-6-8 max.): 3-4, 5-8, 5-6.
BOT CHORD Rigid ceiling directly applied or 6-1-3 oc bracing.
WEBS 1 Row at midpt 3-5, 5-7
WEBS 2 Rows at 1/3 pts 5-10

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

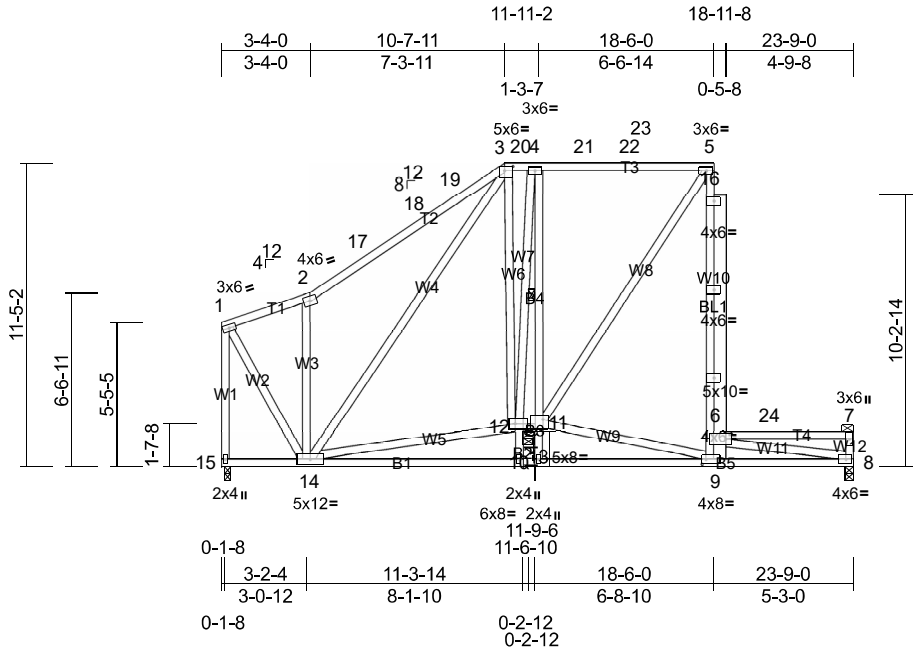
REACTIONS (lb/size) 7=1308/0-3-8, (min. 0-2-1), 12=890/0-5-8, (min. 0-1-8)
Max Horiz 12=511 (LC 17)
Max Uplift 7=-107 (LC 17), 12=-44 (LC 13)
Max Grav 7=1734 (LC 3), 12=1173 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-604/106, 2-14=-961/186, 14-15=-846/195, 15-16=-822/200, 3-16=-784/220, 5-13=-791/191, 4-13=-787/189, 5-21=-433/27, 6-21=-433/27, 6-7=-396/0, 1-12=-1147/195
BOT CHORD 11-12=-471/581, 11-22=-456/819, 10-22=-456/819, 9-10=-911/4909, 8-9=-911/4909, 7-8=-1247/6041
WEBS 2-11=-742/216, 2-10=-31/304, 3-10=-132/780, 3-5=-858/312, 5-10=-4257/770, 1-11=-193/1076, 5-7=-5727/1225

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 14-9-12 to 18-0-0, Interior (1) 18-0-0 to 25-3-11, Exterior(2R) 25-3-11 to 28-3-11, Interior (1) 28-3-11 to 38-3-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 7 and 44 lb uplift at joint 12.
11) Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 531 lb down and 121 lb up at 33-3-0 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: 1-2=-43, 2-3=-43, 3-4=-53, 5-6=-83, 7-12=-20
Concentrated Loads (lb)
Vert: 4=-450
3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-50, 2-3=-50, 3-4=-50, 5-6=-140, 11-12=-35, 11-22=-50, 7-22=-35
Concentrated Loads (lb)
Vert: 4=-431

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	B7	Piggyback Base	1	2	Job Reference (optional)



Scale = 1:86.6

Plate Offsets (X, Y): [3:0-3-12,0-2-0], [6:0-2-8,0-2-8], [9:0-1-12,0-2-0], [11:0-5-8,0-4-0], [12:0-5-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.05	13-14	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.10	13-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.64	Horz(CT)	-0.01	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 496 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 0-0-0 oc purlins (6-0-0 max.): 3-5, 6-9, 6-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
1 Row at midpt 4-11

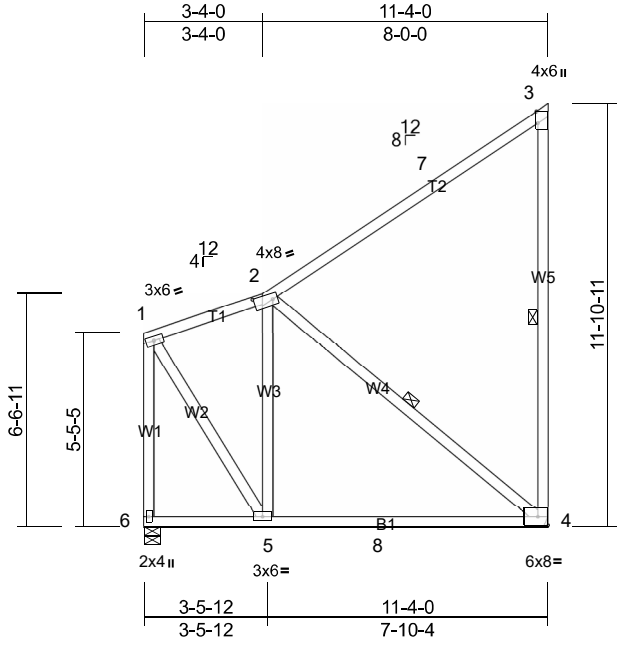
REACTIONS All bearings 0-5-4. except 8=0-3-8, 15=0-2-9, 10=0-0-8
(lb) - Max Horiz 15=511 (LC 17)
Max Uplift All uplift 100 (lb) or less at joint(s) 8 except 11=-141 (LC 13), 12=-206 (LC 16), 15=-397 (LC 57)
Max Grav All reactions 250 (lb) or less at joint (s) 10, 15 except 8=438 (LC 30), 11=1289 (LC 57), 12=1141 (LC 44)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-75/252, 2-17=-108/271, 17-18=-69/292, 18-19=-64/301, 3-19=-55/343, 3-20=-65/684, 4-20=-65/684, 4-21=-66/685, 21-22=-66/685, 22-23=-66/685, 5-23=-66/685, 6-9=-5/264, 6-16=-49/467, 5-16=-52/469, 7-8=-346/0, 1-15=-192/393
BOT CHORD 14-15=-471/578, 11-12=-808/371, 4-11=-401/93, 8-9=-416/754
WEBS 2-14=-380/174, 9-11=-208/267, 5-11=-1302/272, 1-14=-403/232, 3-14=-362/914, 12-14=-792/330, 3-12=-1145/366, 6-8=-642/420

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 14-9-12 to 18-0-0, Interior (1) 18-0-0 to 25-3-11, Exterior(2R) 25-3-11 to 28-3-11, Interior (1) 28-3-11 to 38-3-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
6) Unbalanced snow loads have been considered for this design.
7) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
8) Provide adequate drainage to prevent water ponding.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 15, 10.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 8 except (jt=lb) 15=396, 12=205, 11=140.
13) Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 531 lb down and 121 lb up at 33-3-0 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: 1-2=-43, 2-3=-43, 3-5=-53, 6-7=-83, 13-15=-20, 11-12=-20, 8-10=-20
Concentrated Loads (lb)
Vert: 5=-450
3) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-50, 2-3=-50, 3-5=-50, 6-7=-140, 13-15=-20, 11-12=-20, 8-10=-20
Concentrated Loads (lb)
Vert: 5=-431

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	B8	Roof Special	1	1	Job Reference (optional)



Scale = 1:64.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.14	4-5	>963	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.24	4-5	>552	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	-0.01	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 93 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* W5:2x4 SP No.1

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-4, 2-4

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

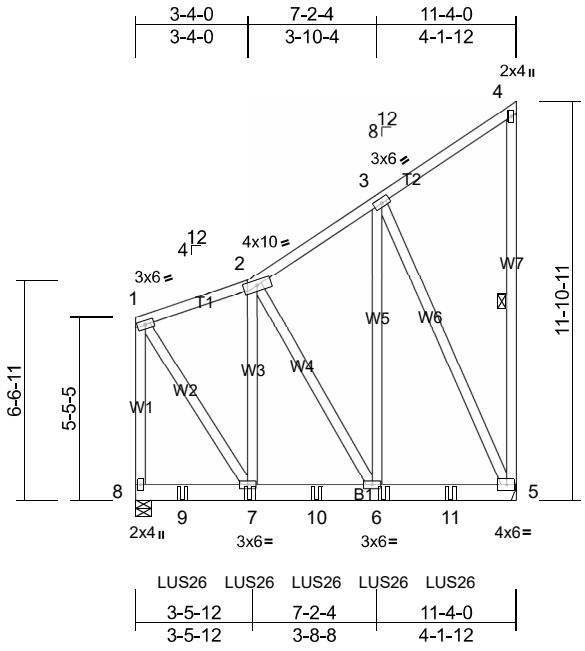
REACTIONS (lb/size) 4=348/ Mechanical, 6=348/0-5-8, (min. 0-1-8)
Max Horiz 6=347 (LC 13)
Max Uplift 4=-183 (LC 13), 6=-86 (LC 12)
Max Grav 4=604 (LC 29), 6=588 (LC 30)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-308/45, 2-7=-256/169, 1-6=-601/150
BOT CHORD 5-6=-528/404, 5-8=-395/421, 4-8=-395/421
WEBS 2-4=-376/365, 1-5=-145/566

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 14-9-12 to 18-0-0, Interior (1) 18-0-0 to 25-10-4 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
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 183 lb uplift at joint 4 and 86 lb uplift at joint 6.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	B9G	Roof Special Girder	1	2	Job Reference (optional)



Scale = 1:68.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.01	6-7	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.03	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.52	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 247 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-5

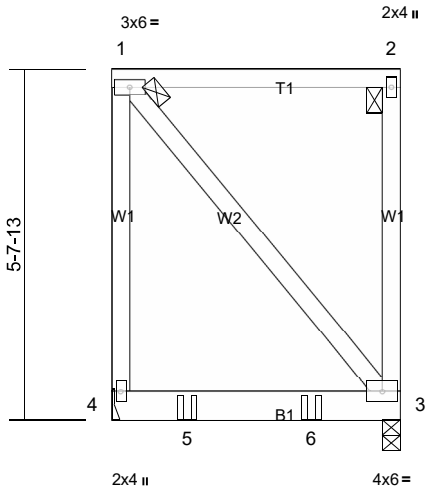
REACTIONS (lb/size) 5=1395/ Mechanical, 8=1513/0-5-8, (min. 0-1-8)
Max Horiz 8=345 (LC 9)
Max Uplift 5=-333 (LC 9), 8=-254 (LC 8)
Max Grav 5=1823 (LC 25), 8=1931 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-890/101, 2-3=-877/157, 1-8=-1598/218
BOT CHORD 8-9=-319/201, 7-9=-319/201, 7-10=-277/860, 6-10=-277/860, 6-11=-184/680, 5-11=-184/680
WEBS 2-6=-340/176, 3-6=-221/1542, 3-5=-1542/289, 1-7=-190/1498

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
6) Unbalanced snow loads have been considered for this design.
7) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 333 lb uplift at joint 5 and 254 lb uplift at joint 8.
12) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 16-0-12 from the left end to 24-0-12 to connect truss(es) C3 (1 ply 2x4 SP) 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: 1-2=-43, 2-4=-43, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-442, 6=-442, 9=-442, 10=-442, 11=-442

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	BXR	Flat Girder	1	**2**	Job Reference (optional)



Scale = 1:37.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.03	3-4	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.06	3-4	>901	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	n/a	-	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 84 lb	FT = 20%

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

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

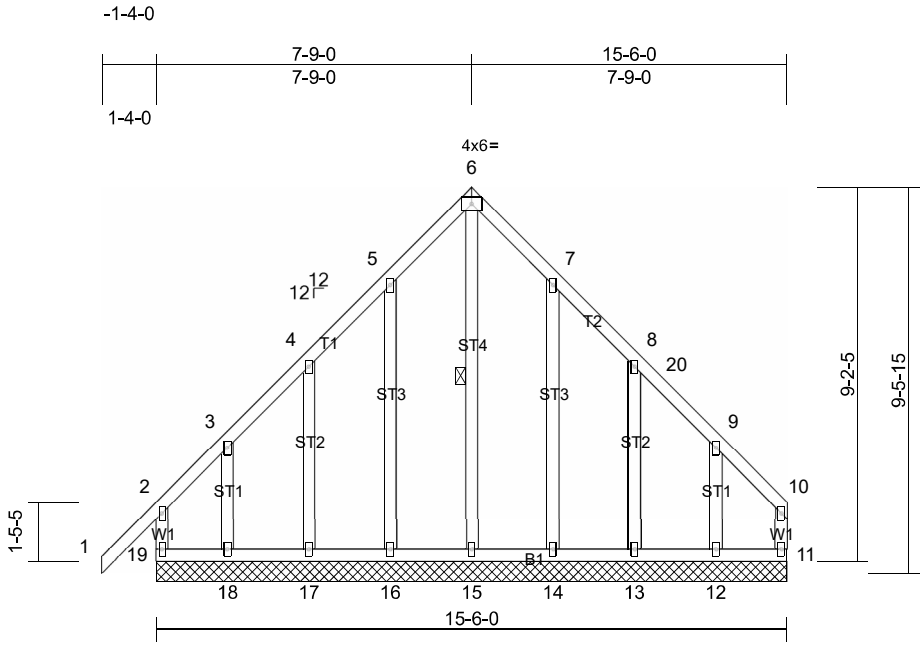
REACTIONS (lb/size) 3=769/0-3-8, (min. 0-1-8), 4=960/ Mechanical
Max Horiz 4=-154 (LC 8)
Max Uplift 3=-198 (LC 9), 4=-206 (LC 8)
Max Grav 3=874 (LC 2), 4=960 (LC 1)

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

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
6) Unbalanced snow loads have been considered for this design.
7) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
8) Provide adequate drainage to prevent water ponding.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) Refer to girder(s) for truss to truss connections.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 206 lb uplift at joint 4 and 198 lb uplift at joint 3.
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 LUS26 (4-SD9112 Girder, 4-SD9212 Truss, Single Ply Girder) or equivalent at 1-2-8 from the left end to connect truss(es) F1 (1 ply 2x4 SP) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
15) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss) or equivalent at 3-2-8 from the left end to connect truss(es) F2 (1 ply 2x4 SP) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
16) 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: 1-2=-53, 3-4=-20
Concentrated Loads (lb)
Vert: 5=-832, 6=-579

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	C1E	Common Supported Gable	1	1	Job Reference (optional)



Scale = 1:56.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	11	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 116 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP 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.
WEBS 1 Row at midpt 6-15

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

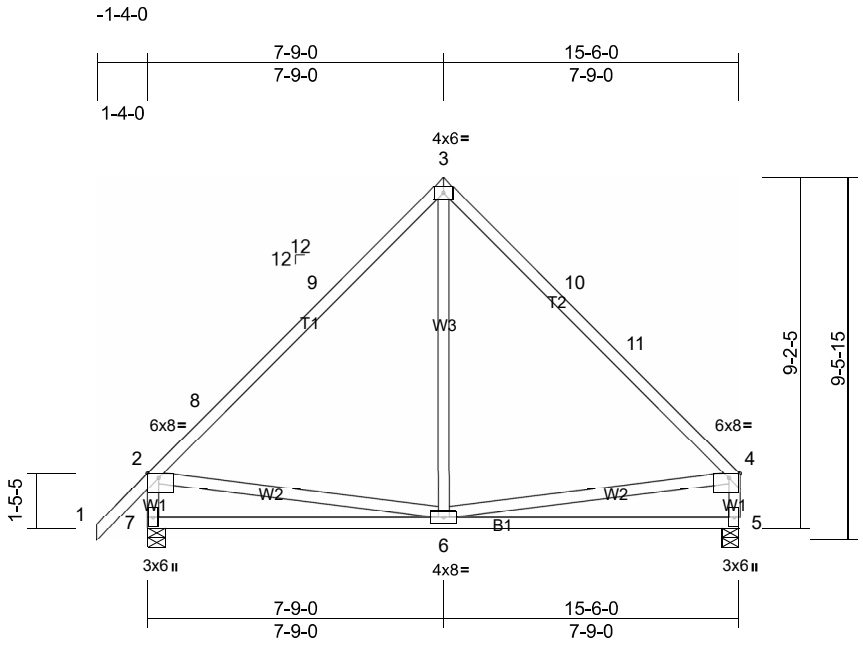
REACTIONS All bearings 15-6-0.
(lb) - Max Horiz 19=208 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s) 13, 14, 16, 17 except 11=-120 (LC 11), 12=-150 (LC 15), 18=-161 (LC 14), 19=-141 (LC 10)
Max Grav All reactions 250 (lb) or less at joint (s) 11, 12, 13, 14, 16, 17, 18 except 15=280 (LC 15), 19=259 (LC 27)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-168/341, 6-7=-168/341
WEBS 6-15=-412/141

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-4-0 to 1-9-0, Exterior(2N) 1-9-0 to 7-9-0, Corner(3R) 7-9-0 to 10-9-0, Exterior(2N) 10-9-0 to 15-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) All plates are 2x4 (||) MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * 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.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 16, 17, 14, 13 except (jt=lb) 19=140, 11=119, 18=161, 12=150.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	C2	Common	7	1	Job Reference (optional)



Scale = 1:60.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.07	6-7	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.14	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 97 lb	FT = 20%

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

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.

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

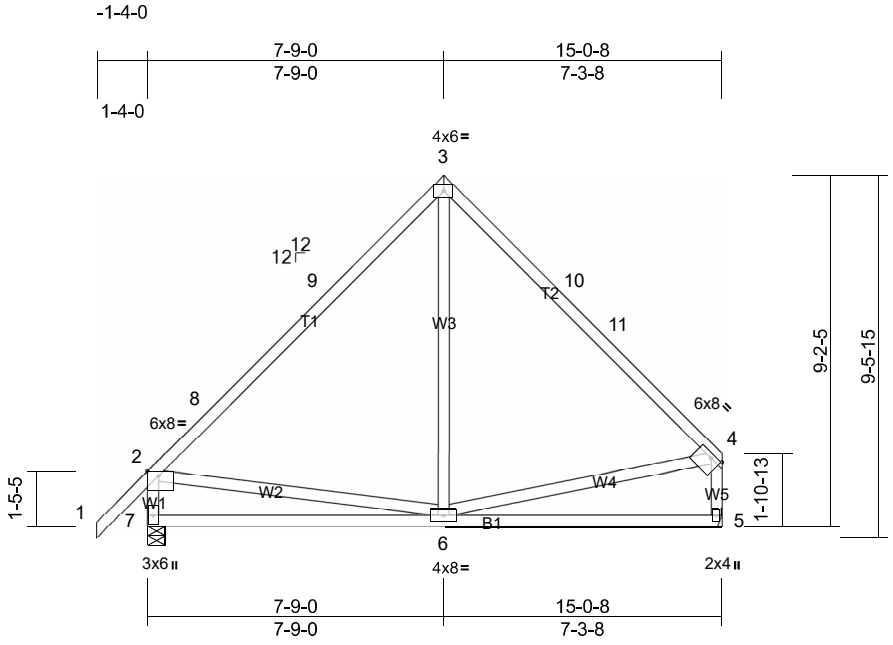
REACTIONS (lb/size) 5=477/0-5-8, (min. 0-1-8), 7=547/0-5-8, (min. 0-1-8)
Max Horiz 7=208 (LC 11)
Max Uplift 5=-57 (LC 14), 7=-64 (LC 14)
Max Grav 5=604 (LC 2), 7=701 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-584/81, 8-9=-412/109, 3-9=-389/139, 3-10=-378/131, 10-11=-412/99, 4-11=-573/92, 2-7=-634/155, 4-5=-537/109
BOT CHORD 6-7=-285/406
WEBS 3-6=-6/312, 2-6=-146/306

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 7-9-0, Exterior(2R) 7-9-0 to 10-9-0, Interior (1) 10-9-0 to 15-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 64 lb uplift at joint 7 and 57 lb uplift at joint 5.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	C3	Common	5	1	Job Reference (optional)



Scale = 1:60.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.07	6-7	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.14	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 95 lb	FT = 20%

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

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

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

REACTIONS (lb/size) 5=462/ Mechanical, 7=532/0-5-8, (min. 0-1-8)
Max Horiz 7=213 (LC 13)
Max Uplift 5=-59 (LC 14), 7=-62 (LC 14)
Max Grav 5=586 (LC 2), 7=683 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-561/83, 8-9=-387/111, 3-9=-365/141, 3-10=-361/133, 10-11=-387/103, 4-11=-537/98, 2-7=-615/158, 4-5=-524/112
BOT CHORD 6-7=-288/409
WEBS 3-6=-11/289, 2-6=-156/308

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 7-9-0, Exterior(2R) 7-9-0 to 10-9-0, Interior (1) 10-9-0 to 14-10-12 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
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 7 and 59 lb uplift at joint 5.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	D1E	Attic	1	1	Job Reference (optional)

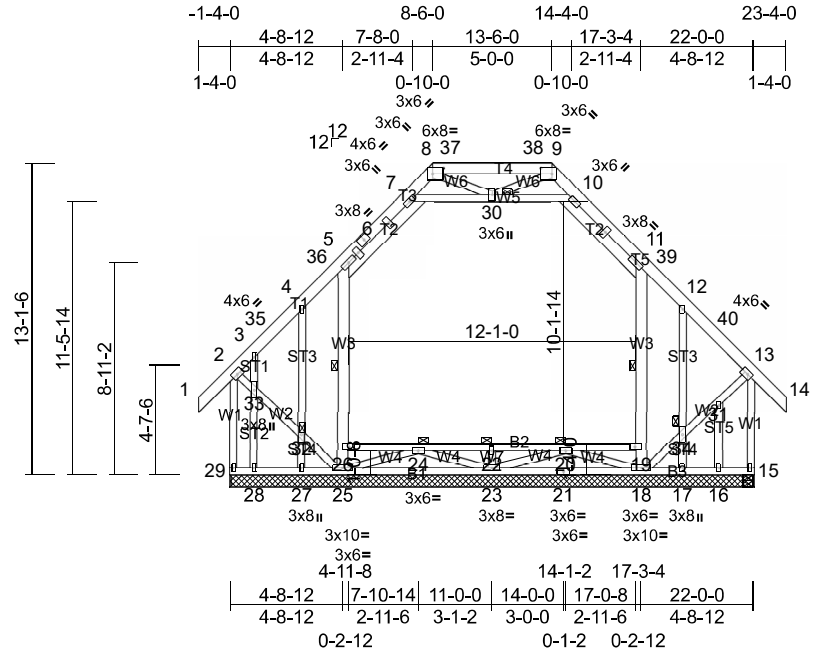


Plate Offsets (X, Y): [8:0-5-8,0-3-0], [9:0-5-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.02	23-25	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.05	23-25	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	18	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS		Attic	-0.02	19-26	>999	360		
BCDL	10.0										Weight: 288 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* W3:2x6 SP No.2
OTHERS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 0-0-0 oc purlins (6-0-0 max.): 8-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-26, 11-19
JOINTS 1 Brace at Jt(s): 30, 22, 20, 24, 32, 34

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

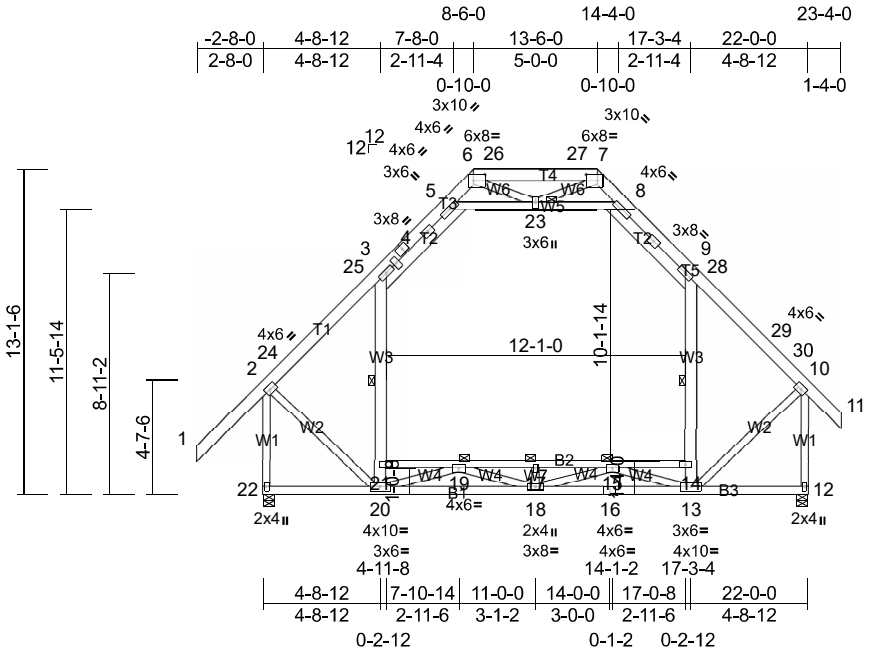
REACTIONS All bearings 22-0-0.
(lb) - Max Horiz 29=-324 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 15, 16 except 17=-129 (LC 15), 18=-118 (LC 15), 25=-120 (LC 14), 27=-121 (LC 14), 29=-119 (LC 10)
Max Grav All reactions 250 (lb) or less at joint (s) 16, 17, 27, 28 except 15=688 (LC 2), 18=667 (LC 28), 23=957 (LC 21), 25=680 (LC 27), 29=608 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-380/74, 3-35=-419/79, 4-35=-390/90, 4-36=-331/91, 5-36=-272/95, 5-6=-460/79, 6-7=-399/100, 7-8=-401/69, 8-37=-376/17, 37-38=-376/17, 9-38=-376/17, 9-10=-404/62, 10-11=-490/100, 11-39=-289/79, 12-39=-348/75, 12-40=-358/78, 13-40=-428/67, 2-29=-608/101, 13-15=-677/84
BOT CHORD 28-29=-308/277, 27-28=-308/277, 25-27=-308/277, 23-25=-26/526, 21-23=-21/523, 18-21=-21/523, 22-24=-14/357, 20-22=-14/357
WEBS 25-26=-541/0, 5-26=-419/87, 18-19=-510/0, 11-19=-394/83, 2-33=-113/372, 32-33=-110/378, 25-32=-108/365, 18-34=-97/363, 31-34=-98/376, 13-31=-100/371, 22-23=-357/0, 20-23=-733/0, 18-20=-417/17, 23-24=-733/0, 24-25=-417/19

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 8-6-0, Exterior(2R) 8-6-0 to 12-8-15, Interior (1) 12-8-15 to 13-6-0, Exterior(2R) 13-6-0 to 17-8-15, Interior (1) 17-8-15 to 23-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) Provide adequate drainage to prevent water ponding.
8) All plates are 2x4 (||) MT20 unless otherwise indicated.
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * 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.
12) Ceiling dead load (5.0 psf) on member(s). 5-7, 10-11, 7-30, 10-30; Wall dead load (5.0psf) on member(s).5-26, 11-19
13) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 24-26, 22-24, 20-22, 19-20
14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 15, 16 except (jt=lb) 29=118, 25=119, 18=117, 27=121, 17=128.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	D2	Attic	3	1	Job Reference (optional)



Scale = 1:93.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.16	17	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.27	15-17	>958	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.05	12	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS		Attic	-0.11	14-21	>999	360		
BCDL	10.0										Weight: 262 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* W3:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 0-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 3-7-0 oc bracing.
WEBS 1 Row at midpt 3-21, 9-14
JOINTS 1 Brace at Jt(s): 23, 17, 15, 19

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

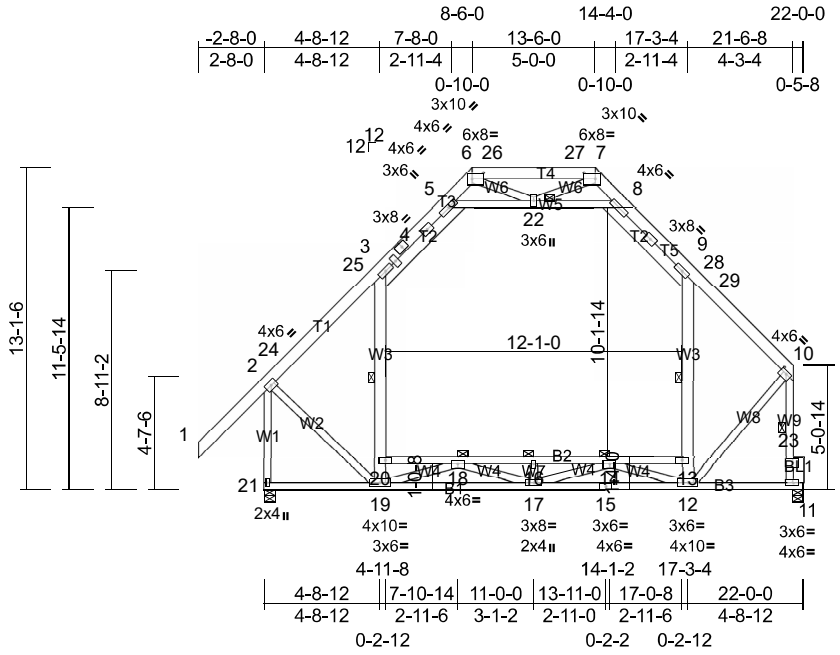
REACTIONS (lb/size) 12=1097/0-5-8, (min. 0-1-14), 22=1166/0-5-8, (min. 0-2-0)
Max Horiz 22=342 (LC 15)
Max Grav 12=1614 (LC 48), 22=1673 (LC 48)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-24=-1126/0, 24-25=-951/24, 3-25=-933/28, 3-4=-791/78, 4-5=-596/108, 5-6=-297/375, 6-26=-186/506, 26-27=-186/506, 7-27=-186/506, 7-8=-299/367, 8-9=-765/118, 9-28=-928/14, 28-29=-956/6, 29-30=-1060/0, 10-30=-1121/0, 2-22=-1643/9, 10-12=-1581/0
BOT CHORD 20-22=-325/302, 18-20=0/2247, 16-18=0/2239, 13-16=0/2239, 19-21=-252/335, 17-19=-2271/0, 15-17=-2271/0, 14-15=-272/319
WEBS 3-21=-132/432, 9-14=-142/429, 5-23=-1345/223, 8-23=-1329/221, 2-20=0/993, 10-13=0/975, 17-18=-321/0, 15-18=-39/675, 13-15=-1867/0, 18-19=-29/688, 19-20=-1876/0

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-8-0 to 0-1-12, Interior (1) 0-1-12 to 8-6-0, Exterior(2R) 8-6-0 to 12-8-15, Interior (1) 12-8-15 to 13-6-0, Exterior(2R) 13-6-0 to 17-8-15, Interior (1) 17-8-15 to 23-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Ceiling dead load (5.0 psf) on member(s). 3-5, 8-9, 5-23, 8-23; Wall dead load (5.0psf) on member(s).3-21, 9-14
11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 19-21, 17-19, 15-17, 14-15
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	D3	Attic	6	1	Job Reference (optional)



Scale = 1:94

Plate Offsets (X, Y): [6:0-5-8,0-3-0], [7:0-5-8,0-3-0], [10:0-3-0,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.16	16-18	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.27	17-19	>958	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.05	11	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS		Attic	-0.11	13-20	>999	360		
BCDL	10.0										Weight: 259 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* W3:2x6 SP No.2
OTHERS 2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 0-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 3-7-2 oc bracing.
WEBS 1 Row at midpt 3-20, 9-13, 10-11
JOINTS 1 Brace at Jt(s): 18, 16, 14, 22

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

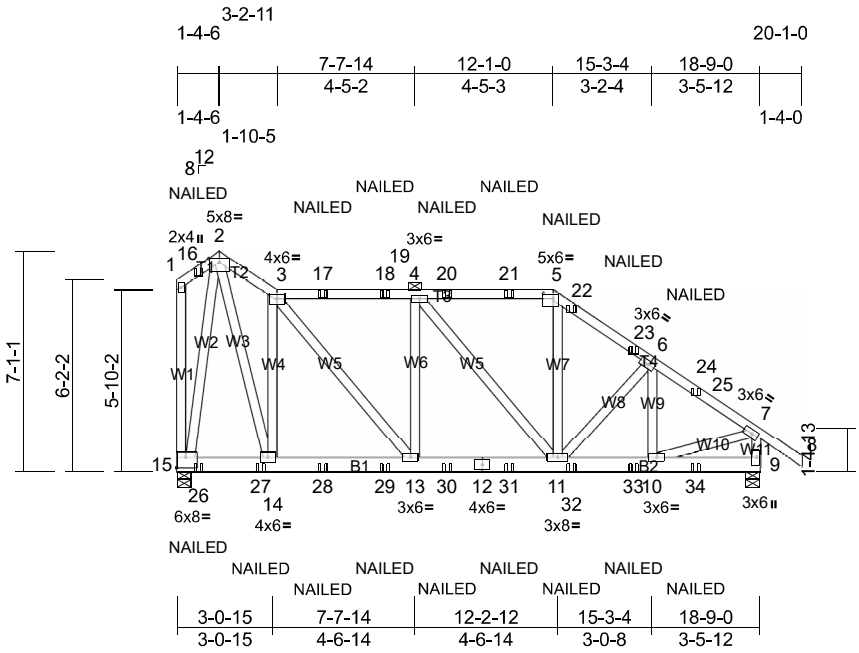
REACTIONS (lb/size) 11=1018/0-5-8, (min. 0-1-13), 21=1157/0-5-8, (min. 0-1-15)
Max Horiz 21=337 (LC 13)
Max Grav 11=1558 (LC 48), 21=1659 (LC 48)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-24=-1114/0, 24-25=-934/16, 3-25=-921/21, 3-4=-775/76, 4-5=-584/106, 5-6=-313/342, 6-26=-206/463, 26-27=-206/463, 7-27=-206/463, 7-8=-310/346, 8-9=-755/114, 9-28=-909/12, 28-29=-924/6, 10-29=-1095/4, 2-21=-1626/6, 11-23=-1537/0, 10-23=-1549/0
BOT CHORD 19-21=-320/282, 17-19=0/2232, 15-17=0/2197, 12-15=0/2197, 18-20=-249/293, 16-18=-2260/0, 14-16=-2260/0, 13-14=-267/355
WEBS 3-20=-134/431, 9-13=-146/420, 5-22=-1276/190, 8-22=-1286/220, 2-19=0/976, 18-19=-1849/0, 17-18=-29/660, 16-17=-321/0, 14-17=-36/693, 12-14=-1888/0, 10-12=0/925

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-8-0 to 0-1-12, Interior (1) 0-1-12 to 8-6-0, Exterior(2R) 8-6-0 to 12-8-15, Interior (1) 12-8-15 to 13-6-0, Exterior(2R) 13-6-0 to 17-8-15, Interior (1) 17-8-15 to 21-4-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Ceiling dead load (5.0 psf) on member(s). 3-5, 8-9, 5-22, 8-22; Wall dead load (5.0psf) on member(s).3-20, 9-13
11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 18-20, 16-18, 14-16, 13-14
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	E1G	Roof Special Girder	1	1	Job Reference (optional)



Scale = 1:74.1

Plate Offsets (X, Y): [5:0-3-12,0-2-0], [15:Edge,0-4-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	0.05	11-13	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.06	11-13	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.01	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 164 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-5-4 oc purlins, except end verticals, and 0-0-0 oc purlins (5-7-12 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 9-11-9 oc bracing.

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

REACTIONS (lb/size) 9=1034/0-5-8, (min. 0-1-8), 15=977/0-5-8, (min. 0-1-8)
Max Horiz 15=-207 (LC 8)
Max Uplift 9=-488 (LC 13), 15=-696 (LC 13)
Max Grav 9=1170 (LC 39), 15=1235 (LC 27)

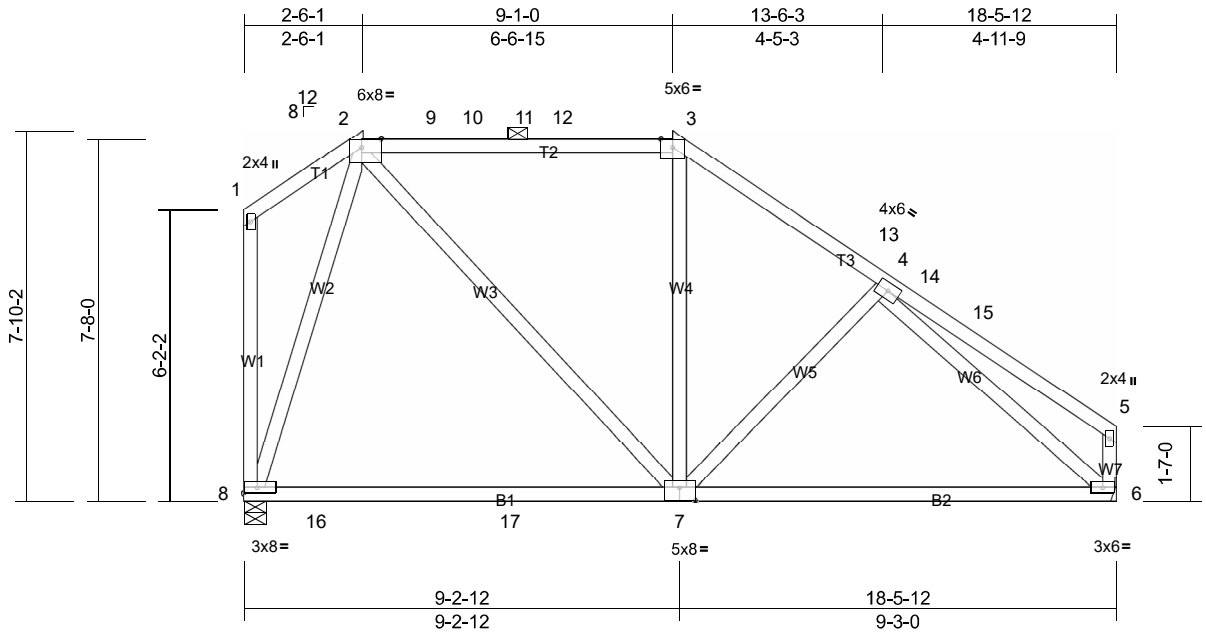
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-702/422, 3-17=-983/584, 17-18=-983/584, 18-19=-983/584, 4-19=-983/584, 4-20=-857/524, 20-21=-857/524, 5-21=-857/524, 5-22=-984/572, 22-23=-1052/603, 6-23=-1119/607, 6-24=-1031/538, 24-25=-1096/543, 7-25=-1129/533, 7-9=-1110/482
BOT CHORD 15-26=-164/288, 26-27=-164/288, 14-27=-164/288, 14-28=-355/640, 28-29=-355/640, 13-29=-355/640, 13-30=-553/1027, 12-30=-553/1027, 12-31=-553/1027, 11-31=-553/1027, 11-32=-405/914, 32-33=-405/914, 10-33=-405/914
WEBS 2-15=-1078/581, 2-14=-806/1305, 3-14=-1030/643, 3-13=-383/682, 4-13=-356/255, 5-11=-139/322, 7-10=-396/878

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 696 lb uplift at joint 15 and 488 lb uplift at joint 9.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (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) . 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: 1-2=-43, 2-3=-43, 3-5=-53, 5-7=-43, 7-8=-43, 9-15=-20
Concentrated Loads (lb)
Vert: 16=-76 (F), 17=-23 (F), 18=-23 (F), 20=-23 (F), 21=-23 (F), 22=-72 (F), 23=-80 (F), 24=-107 (F), 26=-28 (F), 27=-80 (F), 28=-23 (F), 29=-23 (F), 30=-23 (F), 31=-23 (F), 32=-21 (F), 33=-21 (F), 34=-23 (F)

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	E2	Hip	1	1	Job Reference (optional)



Scale = 1:48.8

Plate Offsets (X, Y): [2:0-4-13,Edge], [7:0-4-0,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.30	7-8	>735	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.45	7-8	>483	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.01	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 124 lb	FT = 20%

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

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

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

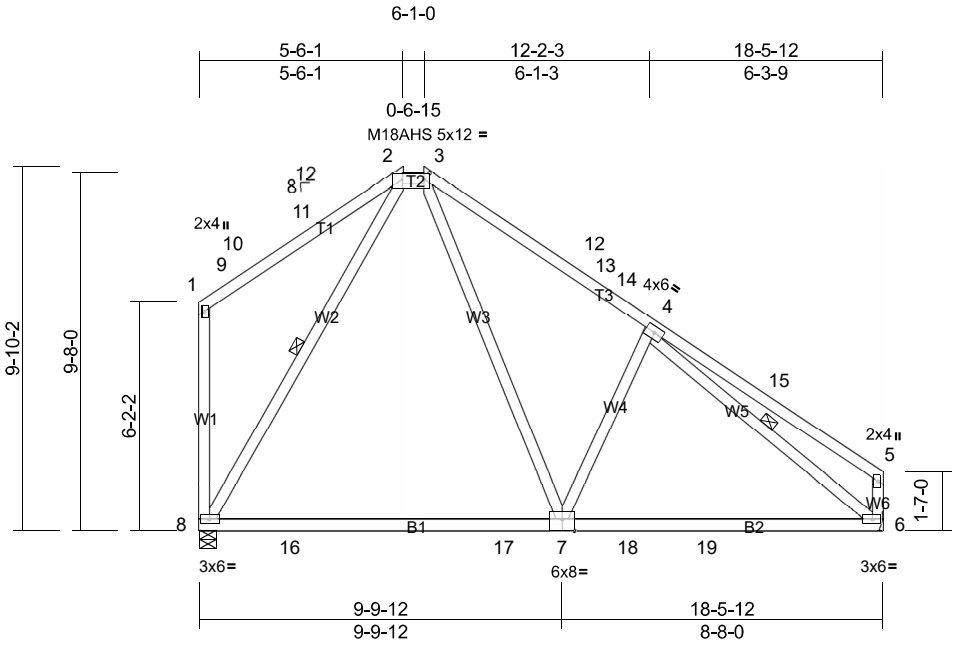
REACTIONS (lb/size) 6=594/ Mechanical, 8=619/0-5-8, (min. 0-1-8)
Max Horiz 8=-210 (LC 12)
Max Uplift 6=-70 (LC 17), 8=-56 (LC 12)
Max Grav 6=844 (LC 50), 8=823 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-549/133, 9-10=-549/133, 10-11=-549/133, 11-12=-549/133, 3-12=-549/133, 3-13=-713/136, 4-13=-724/106, 5-15=-251/54, 5-6=-250/64
BOT CHORD 8-16=-95/271, 16-17=-95/271, 7-17=-95/271, 6-7=-72/636
WEBS 2-7=-82/539, 4-6=-716/80, 2-8=-650/195

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 7-10-15 to 10-3-3, Exterior(2R) 10-3-3 to 14-6-2, Interior (1) 14-6-2 to 16-10-3, Exterior (2R) 16-10-3 to 21-1-2, Interior (1) 21-1-2 to 26-1-3 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
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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, with BCDL = 10.0psf.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 70 lb uplift at joint 6 and 56 lb uplift at joint 8.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	E3	Hip	1	1	Job Reference (optional)



Scale = 1:62.4

Plate Offsets (X, Y): [2:0-1-13,0-2-0], [7:0-4-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.38	7-8	>572	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.58	7-8	>375	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.01	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 122 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2

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

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

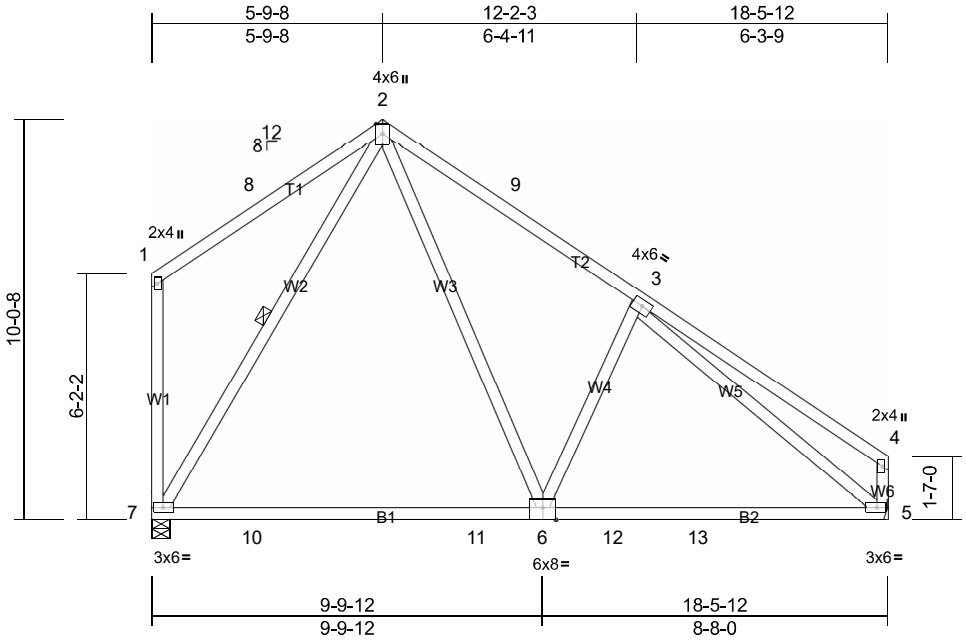
REACTIONS (lb/size) 6=576/ Mechanical, 8=578/0-5-8, (min. 0-1-8)
Max Horiz 8=-250 (LC 12)
Max Uplift 6=-74 (LC 17), 8=-87 (LC 17)
Max Grav 6=900 (LC 50), 8=998 (LC 50)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-399/157, 3-12=-800/175, 12-13=-866/148, 13-14=-877/142, 4-14=-938/139
BOT CHORD 8-16=-43/459, 16-17=-43/459, 7-17=-43/459, 7-18=-63/783, 18-19=-63/783, 6-19=-63/783
WEBS 2-8=-803/144, 3-7=-127/810, 4-7=-340/200, 4-6=-912/51

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 7-10-15 to 10-10-15, Interior (1) 10-10-15 to 13-3-4, Exterior(2E) 13-3-4 to 13-10-3, Exterior(2R) 13-10-3 to 18-1-2, Interior (1) 18-1-2 to 26-1-3 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
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain load requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) The Fabrication Tolerance at joint 2 = 12%, joint 2 = 12%
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
11) Refer to girder(s) for truss to truss connections.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 6 and 87 lb uplift at joint 8.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	E4	Common	3	1	Job Reference (optional)



Scale = 1:57.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.37	6-7	>589	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.56	6-7	>387	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 123 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-10-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-7

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

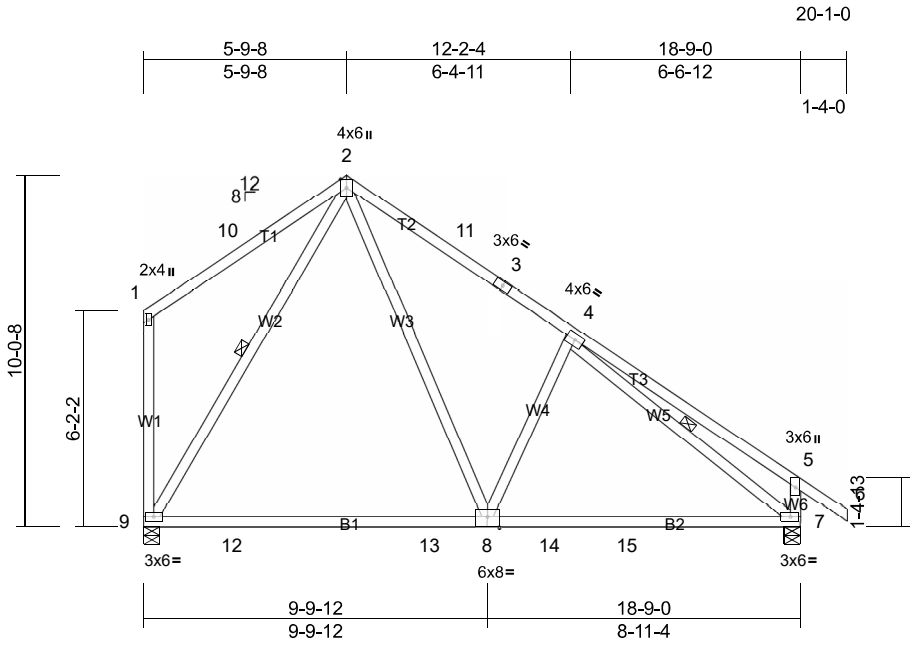
REACTIONS (lb/size) 5=574/ Mechanical, 7=574/0-5-8, (min. 0-1-8)
Max Horiz 7=-255 (LC 10)
Max Uplift 5=-73 (LC 15), 7=-92 (LC 15)
Max Grav 5=844 (LC 26), 7=887 (LC 26)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-726/193, 3-9=-828/173, 3-4=-250/108
BOT CHORD 7-10=-42/410, 10-11=-42/410, 6-11=-42/410, 6-12=-71/696, 12-13=-71/696, 5-13=-71/696
WEBS 2-6=-130/753, 3-6=-277/201, 3-5=-783/63, 2-7=-686/141

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 7-10-15 to 10-10-15, Interior (1) 10-10-15 to 13-6-11, Exterior(2R) 13-6-11 to 16-6-11, Interior (1) 16-6-11 to 26-1-3 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
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 5 and 92 lb uplift at joint 7.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	E5	Common	2	1	Job Reference (optional)



Scale = 1:65.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.37	8-9	>604	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.56	8-9	>398	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 126 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-7, 2-9

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

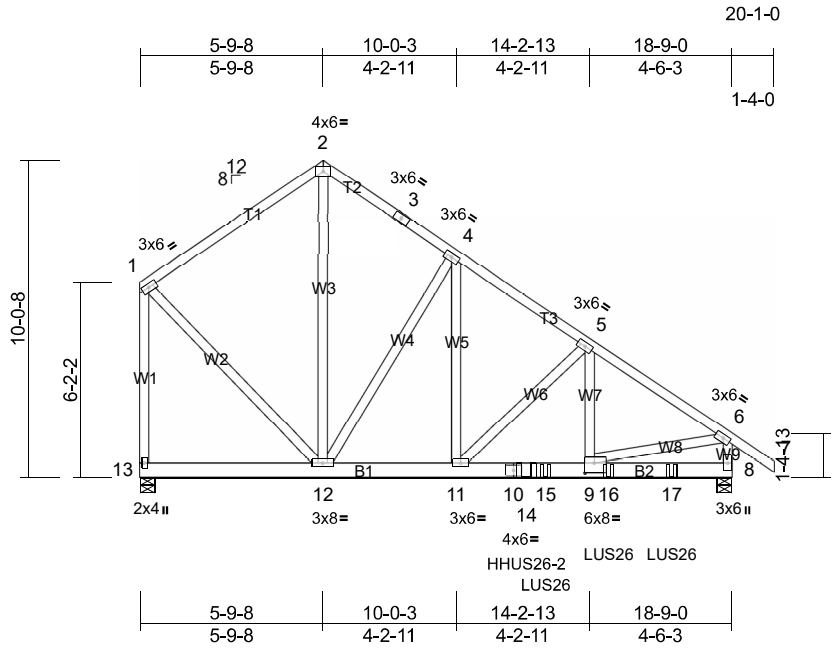
REACTIONS (lb/size) 7=649/0-5-8, (min. 0-1-8), 9=580/0-5-8, (min. 0-1-8)
Max Horiz 9=-269 (LC 10)
Max Uplift 7=-97 (LC 15), 9=-93 (LC 15)
Max Grav 7=943 (LC 27), 9=897 (LC 27)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-743/195, 3-11=-745/175, 3-4=-843/155, 4-5=-328/149, 5-7=-391/146
BOT CHORD 9-12=-31/426, 12-13=-31/426, 8-13=-31/426, 8-14=-26/726, 14-15=-26/726, 7-15=-26/726
WEBS 2-8=-133/772, 4-8=-287/205, 4-7=-747/23, 2-9=-699/141

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 7-10-15 to 10-10-15, Interior (1) 10-10-15 to 13-6-11, Exterior(2R) 13-6-11 to 16-6-11, Interior (1) 16-6-11 to 27-10-3 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
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 97 lb uplift at joint 7 and 93 lb uplift at joint 9.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	E6G	Common Girder	1	2	Job Reference (optional)



Scale = 1:73

Plate Offsets (X, Y): [9:0-3-8,0-3-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.04	9-11	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.08	9-11	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.35	Horz(CT)	0.01	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 311 lb	FT = 20%

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

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

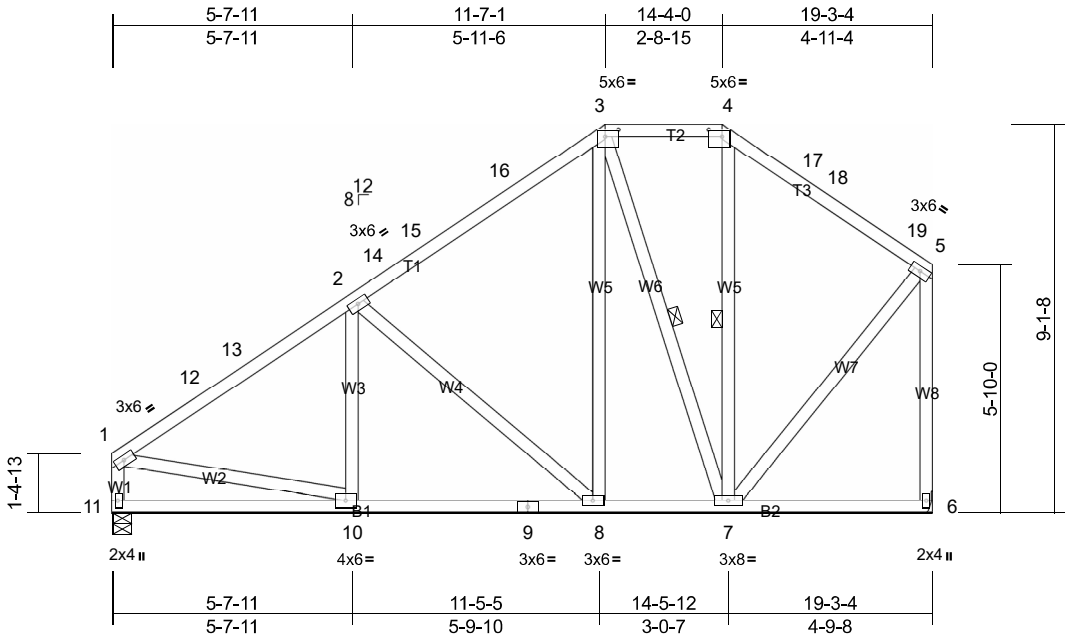
REACTIONS (lb/size) 8=2529/0-5-8, (min. 0-1-8), 13=1228/0-5-8, (min. 0-1-8)
Max Horiz 13=-266 (LC 6)
Max Uplift 8=-410 (LC 11), 13=-213 (LC 11)
Max Grav 8=2579 (LC 2), 13=1346 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-890/227, 2-3=-743/213, 3-4=-869/196, 4-5=-1795/341, 5-6=-2846/481, 1-13=-1282/230, 6-8=-2300/396
BOT CHORD 11-12=-148/1438, 10-11=-328/2300, 10-14=-328/2300, 14-15=-328/2300, 9-15=-328/2300
WEBS 2-12=-174/645, 4-12=-1485/378, 1-12=-137/936, 4-11=-305/1554, 5-11=-1247/281, 5-9=-221/1300, 6-9=-298/2183

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
7) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 213 lb uplift at joint 13 and 410 lb uplift at joint 8.
11) Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 4-10d Truss) or equivalent at 20-0-1 from the left end to connect truss(es) BXR (2 ply 2x6 SP) to back face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
12) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 20-7-7 from the left end to 24-7-7 to connect truss(es) H3 (1 ply 2x4 SP), H2 (1 ply 2x4 SP), H1 (1 ply 2x4 SP) 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: 1-2=-43, 2-6=-43, 6-7=-43, 8-13=-20
Concentrated Loads (lb)
Vert: 14=-940, 15=-519, 16=-564, 17=-506

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	F1	Hip	1	1	Job Reference (optional)



Scale = 1:54.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.03	8-10	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.07	8-10	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.01	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 147 lb	FT = 20%

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

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

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

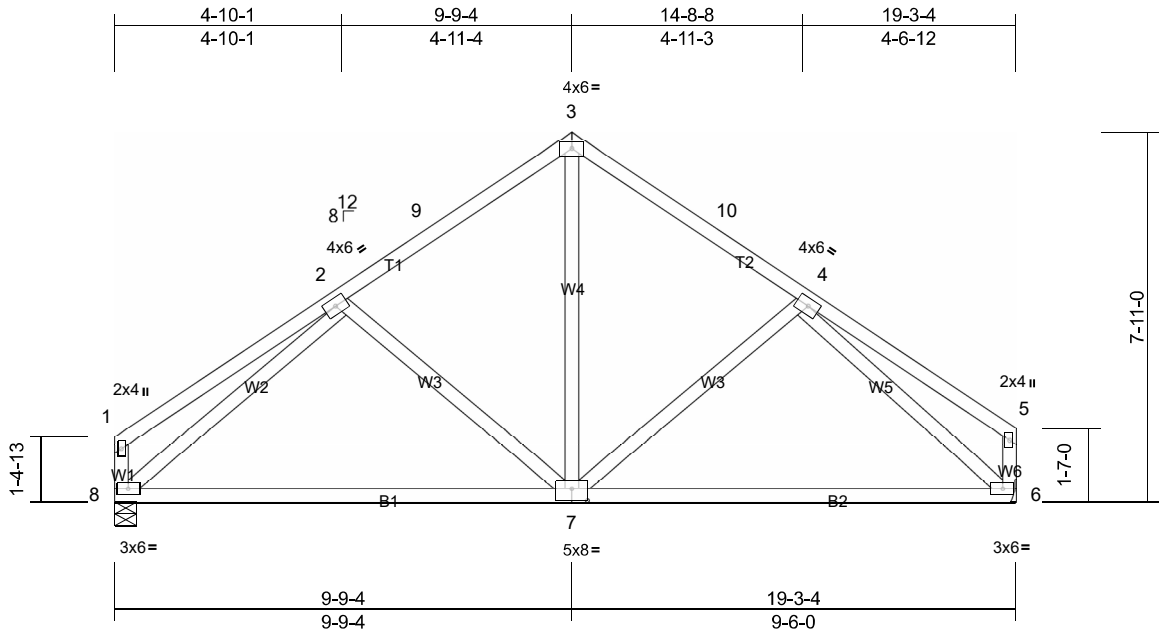
REACTIONS (lb/size) 6=617/ Mechanical, 11=608/0-5-8, (min. 0-1-8)
Max Horiz 11=234 (LC 13)
Max Uplift 6=-73 (LC 16), 11=-77 (LC 16)
Max Grav 6=852 (LC 40), 11=836 (LC 40)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-997/81, 12-13=-929/83, 2-13=-817/104, 2-14=-687/112, 14-15=-650/113, 15-16=-537/130, 3-16=-517/147, 3-4=-338/149, 4-17=-378/142, 17-18=-405/128, 18-19=-407/126, 5-19=-513/113, 1-11=-786/91, 5-6=-807/119
BOT CHORD 10-11=-246/251, 9-10=-220/774, 8-9=-220/774, 7-8=-143/440
WEBS 2-8=-437/157, 3-8=-72/366, 3-7=-349/85, 5-7=-89/506, 1-10=-27/708

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-8-15 to 3-8-15, Interior (1) 3-8-15 to 12-2-4, Exterior(2E) 12-2-4 to 14-11-3, Exterior(2R) 14-11-3 to 19-2-1, Interior (1) 19-2-1 to 19-8-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 11 and 73 lb uplift at joint 6.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	F2	Common	1	1	Job Reference (optional)



Scale = 1:49.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.17	7-8	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.35	7-8	>649	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.02	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 114 lb	FT = 20%

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

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

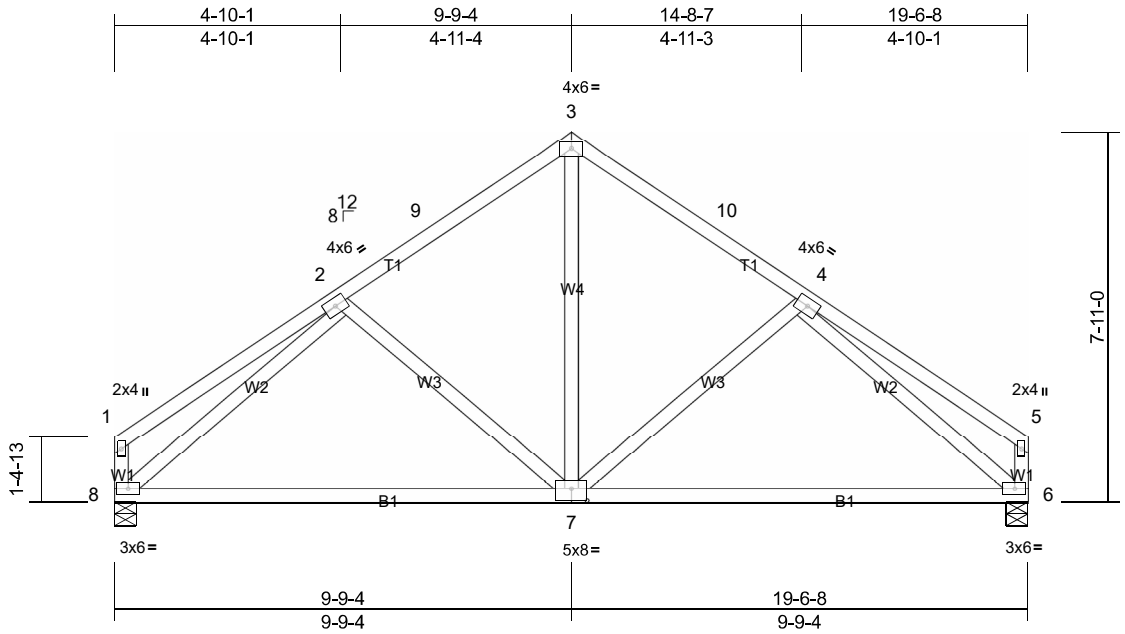
REACTIONS (lb/size) 6=599/ Mechanical, 8=599/0-5-8, (min. 0-1-8)
Max Horiz 8=165 (LC 11)
Max Uplift 6=-74 (LC 15), 8=-76 (LC 14)
Max Grav 6=759 (LC 2), 8=759 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-702/117, 3-9=-611/137, 3-10=-611/135, 4-10=-701/115
BOT CHORD 7-8=-109/655, 6-7=-80/606
WEBS 2-8=-710/94, 4-6=-733/98, 3-7=-62/450

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-8-15 to 3-8-15, Interior (1) 3-8-15 to 10-4-7, Exterior(2R) 10-4-7 to 13-4-7, Interior (1) 13-4-7 to 19-8-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 76 lb uplift at joint 8 and 74 lb uplift at joint 6.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	F3	Common	3	1	Job Reference (optional)



Scale = 1:49.3

Plate Offsets (X, Y): [4:0-0-0,0-0-0], [5:0-0-0,Edge], [7:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.17	7-8	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.34	7-8	>675	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.02	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 115 lb	FT = 20%

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

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

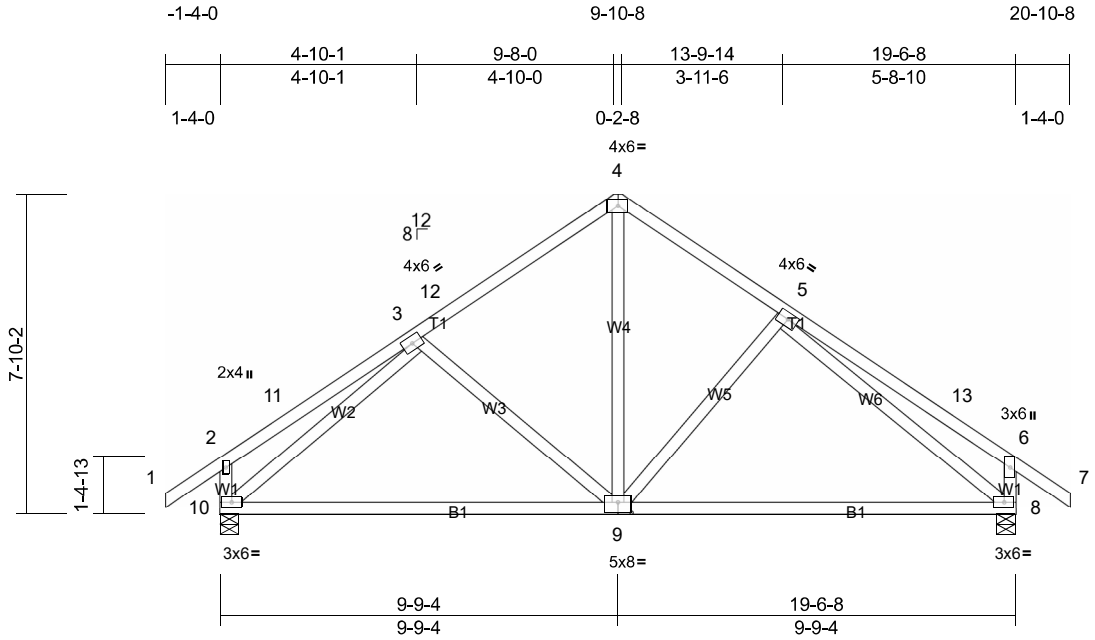
REACTIONS (lb/size) 6=607/0-5-8, (min. 0-1-8), 8=607/0-5-8, (min. 0-1-8)
Max Horiz 8=163 (LC 11)
Max Uplift 6=-76 (LC 15), 8=-76 (LC 14)
Max Grav 6=770 (LC 2), 8=770 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-719/118, 3-9=-628/138, 3-10=-628/138, 4-10=-719/118
BOT CHORD 7-8=-109/666, 6-7=-78/643
WEBS 2-8=-728/95, 4-6=-728/94, 3-7=-64/466

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-8-15 to 3-8-15, Interior (1) 3-8-15 to 10-4-7, Exterior(2R) 10-4-7 to 13-4-7, Interior (1) 13-4-7 to 19-11-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 76 lb uplift at joint 8 and 76 lb uplift at joint 6.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	F4	Hip	1	1	Job Reference (optional)



Scale = 1:56.6

Plate Offsets (X, Y): [9:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.17	9-10	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.34	9-10	>675	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.02	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 120 lb	FT = 20%

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

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

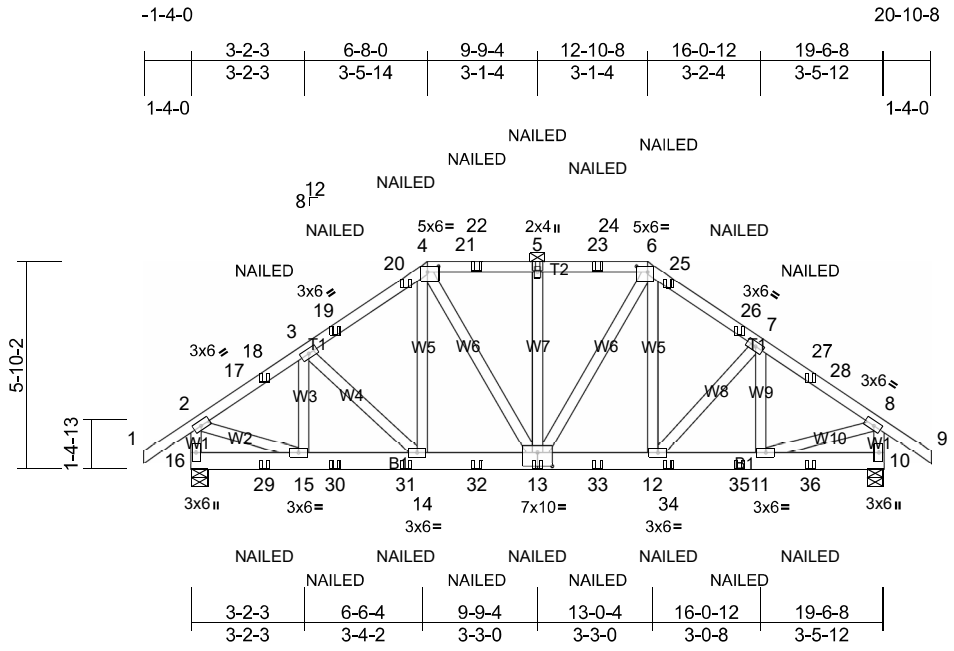
REACTIONS (lb/size) 8=671/0-5-8, (min. 0-1-8), 10=671/0-5-8, (min. 0-1-8)
Max Horiz 10=182 (LC 13)
Max Uplift 8=-99 (LC 15), 10=-99 (LC 14)
Max Grav 8=859 (LC 2), 10=859 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-12=-707/103, 4-12=-616/133, 4-5=-693/136, 6-13=-280/101, 2-10=-289/97, 6-8=-357/133
BOT CHORD 9-10=-96/660, 8-9=-15/618
WEBS 3-10=-722/55, 5-8=-640/32, 4-9=-80/466

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-13 to 2-3-3, Interior (1) 2-3-3 to 10-4-7, Exterior(2R) 10-4-7 to 14-6-10, Interior (1) 14-6-10 to 21-5-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 99 lb uplift at joint 10 and 99 lb uplift at joint 8.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	F5G	Hip Girder	1	1	Job Reference (optional)



Scale = 1:65.1

Plate Offsets (X, Y): [4:0-3-12,0-2-0], [6:0-3-12,0-2-0], [13:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.03	13	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.04	12-13	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.23	Horz(CT)	0.01	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 156 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-2-15 oc purlins, except end verticals, and 0-0-0 oc purlins (5-9-10 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 15-16.

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

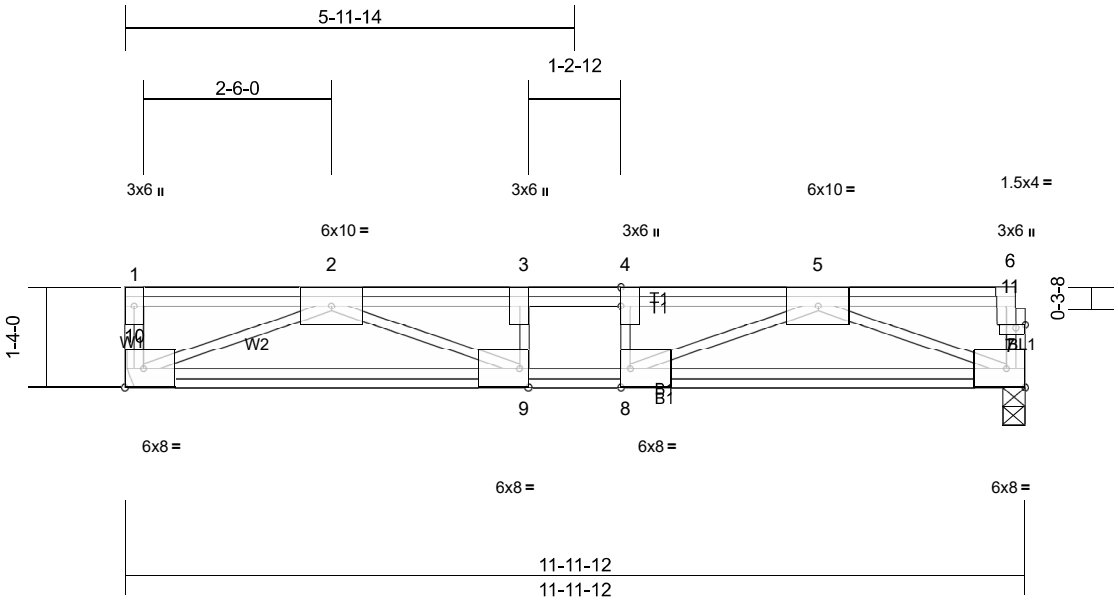
REACTIONS (lb/size) 10=1078/0-5-8, (min. 0-1-8), 16=1078/0-5-8, (min. 0-1-8)
Max Horiz 16=139 (LC 11)
Max Uplift 10=-492 (LC 13), 16=-492 (LC 12)
Max Grav 10=1237 (LC 37), 16=1237 (LC 37)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-17=-1168/526, 17-18=-1096/536, 3-18=-1038/530, 3-19=-1131/612, 19-20=-1070/604, 4-20=-1010/572, 4-21=-996/592, 21-22=-996/592, 5-22=-996/592, 5-23=-996/592, 23-24=-996/592, 6-24=-996/592, 6-25=-1015/577, 25-26=-1071/610, 7-26=-1133/614, 7-27=-1076/543, 27-28=-1117/548, 8-28=-1189/537, 2-16=-1181/486, 8-10=-1177/485
BOT CHORD 15-30=-492/984, 30-31=-492/984, 14-31=-492/984, 14-32=-497/936, 13-32=-497/936, 13-33=-466/911, 12-33=-466/911, 12-34=-419/932, 34-35=-419/932, 11-35=-419/932
WEBS 4-13=-191/261, 5-13=-316/242, 6-13=-192/264, 2-15=-406/928, 8-11=-412/909

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 492 lb uplift at joint 16 and 492 lb uplift at joint 10.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) "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: 1-2=-43, 2-4=-43, 4-6=-53, 6-8=-43, 8-9=-43, 10-16=-20
Concentrated Loads (lb)
Vert: 13=-18, 5=-16, 18=-107, 19=-80, 20=-72, 22=-16, 23=-16, 25=-72, 26=-80, 27=-107, 29=-23, 30=-21, 31=-21, 32=-18, 33=-18, 34=-21, 35=-21, 36=-23

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	FG1	Floor Girder	1	1	Job Reference (optional)



Scale = 1:30.7

Plate Offsets (X, Y): [4:0-3-0,Edge], [8:0-1-8,Edge], [9:0-1-8,Edge], [11:0-1-8,0-0-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.62	Vert(LL)	-0.15	8-9	>919	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.21	8-9	>672	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.04	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 94 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

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

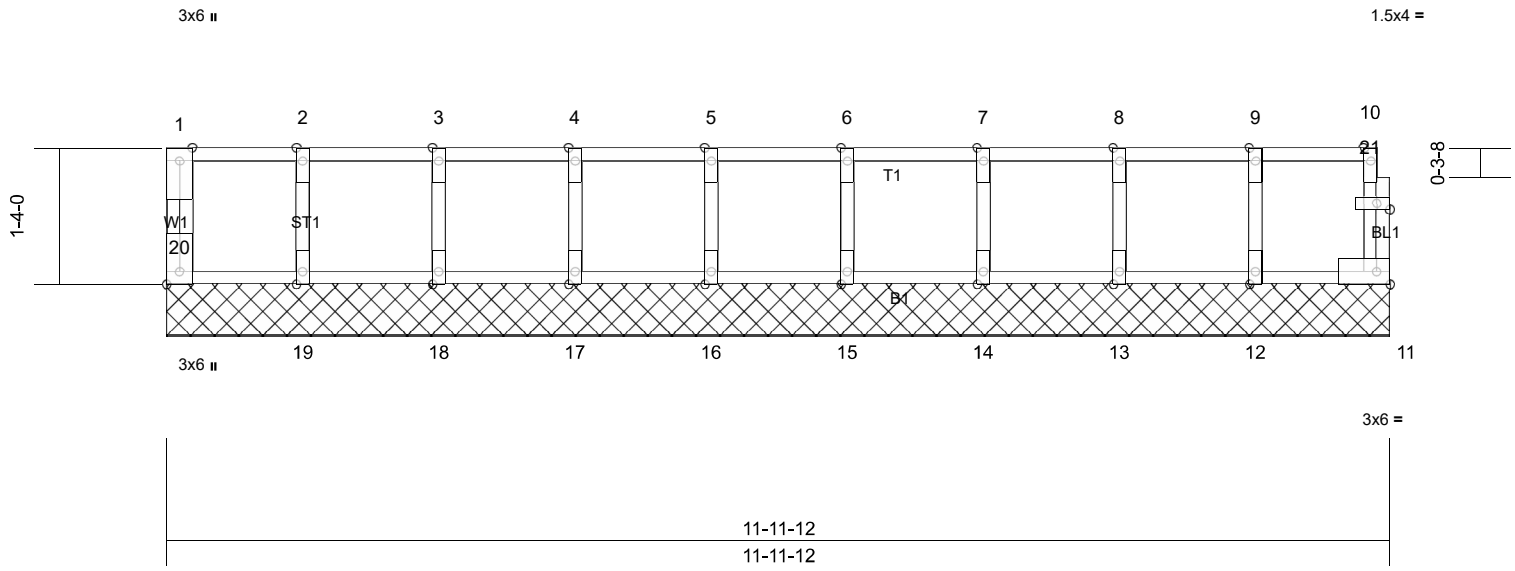
REACTIONS (lb/size) 7=2158/0-3-8, (min. 0-1-8), 10=2158/ Mechanical

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-388/0, 7-11=-381/0, 6-11=-381/0, 2-3=-5759/0, 3-4=-5759/0, 4-5=-5759/0
BOT CHORD 9-10=0/4209, 8-9=0/5759, 7-8=0/4380
WEBS 5-7=-4674/0, 2-10=-4554/0, 5-8=0/1860, 2-9=0/1954, 3-9=-631/0, 4-8=-665/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 7-10=-10, 1-6=-360

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	FL1	Floor Supported Gable	1	1	Job Reference (optional)



Scale = 1:22.6

Plate Offsets (X, Y): [20:Edge,0-1-8], [21:0-1-8,0-0-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 55 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

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

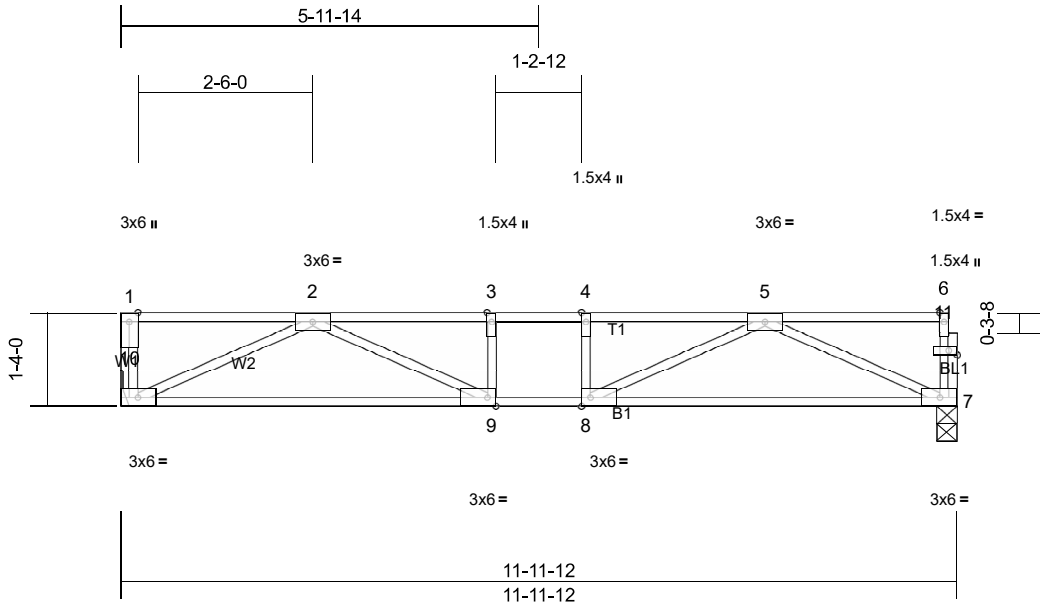
REACTIONS All bearings 11-11-12.
(lb) - Max Grav All reactions 250 (lb) or less at joint (s) 11, 12, 13, 14, 15, 16, 17, 18, 19, 20

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

NOTES
1) All plates are 1.5x4 (||) MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	FT1	Floor	8	1	Job Reference (optional)



Scale = 1:33

Plate Offsets (X, Y): [8:0-1-8,Edge], [9:0-1-8,Edge], [11:0-1-8,0-0-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.11	7-8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.18	7-8	>772	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 61 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

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

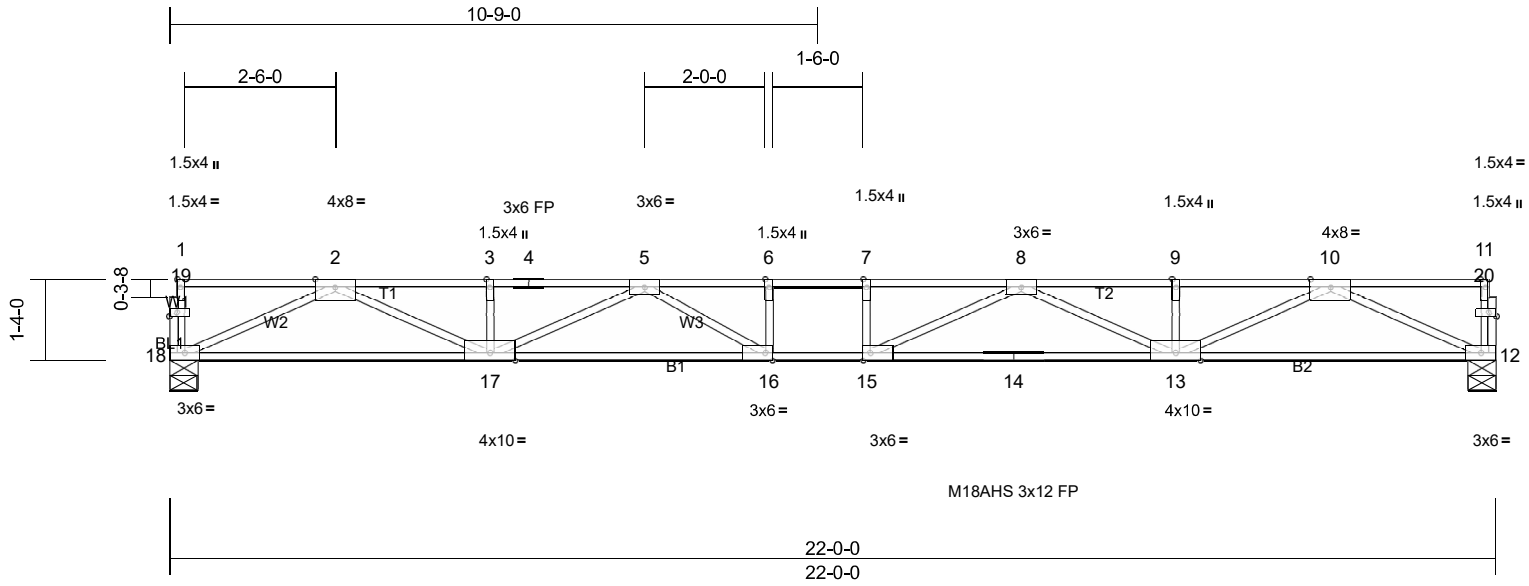
REACTIONS (lb/size) 7=639/0-3-8, (min. 0-1-8), 10=645/ Mechanical

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1583/0, 3-4=-1583/0, 4-5=-1583/0
BOT CHORD 9-10=0/1128, 8-9=0/1583, 7-8=0/1126
WEBS 5-7=-1234/0, 2-10=-1242/0, 5-8=0/581, 2-9=0/581

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	FT2	Floor	3	1	Job Reference (optional)



Scale = 1:38.2

Plate Offsets (X, Y): [1:Edge,0-0-12], [15:0-1-8,Edge], [16:0-1-8,Edge], [19:0-1-8,0-0-12], [20:0-1-8,0-0-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.83	Vert(LL)	-0.49	13-15	>532	480	M18AHS	186/179
TCDL	10.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.68	13-15	>383	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.10	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 109 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat) *Except* T2:2x4 SP No.1 (flat)
BOT CHORD 2x4 SP DSS(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

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.

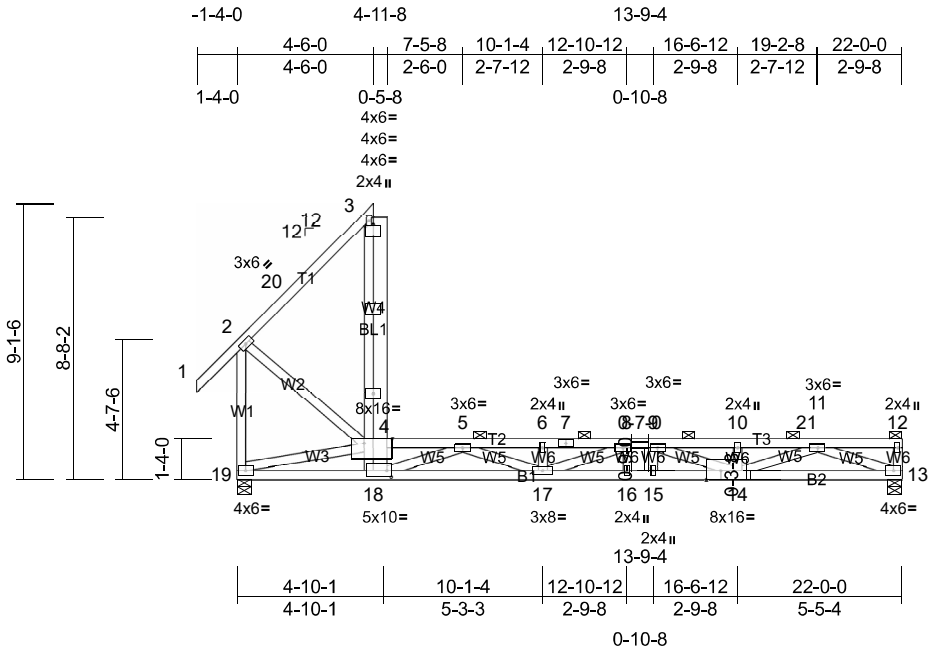
REACTIONS (lb/size) 12=1190/0-5-8, (min. 0-1-8), 18=1190/0-5-8, (min. 0-1-8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3955/0, 3-4=-3955/0, 4-5=-3955/0, 5-6=-5364/0, 6-7=-5364/0, 7-8=-5364/0, 8-9=-3959/0, 9-10=-3959/0
BOT CHORD 17-18=0/2316, 16-17=0/4955, 15-16=0/5364, 14-15=0/4961, 13-14=0/4961, 12-13=0/2319
WEBS 10-12=-2548/0, 2-18=-2543/0, 10-13=0/1813, 2-17=0/1812, 8-13=-1107/0, 5-17=-1106/0, 8-15=-97/838, 5-16=-72/833, 6-16=-286/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	FTR1	Half Hip	5	2	Job Reference (optional)



Scale = 1:76.3

Plate Offsets (X, Y): [3:0-3-0,0-0-8], [4:0-11-0,Edge], [14:0-5-12,Edge], [18:0-1-12,0-2-8]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.37	16-17	>711	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.65	16-17	>402	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.09	13	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 303 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1 *Except* B2:2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 0-0-0 oc purlins (3-9-10 max.): 4-18, 4-12.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

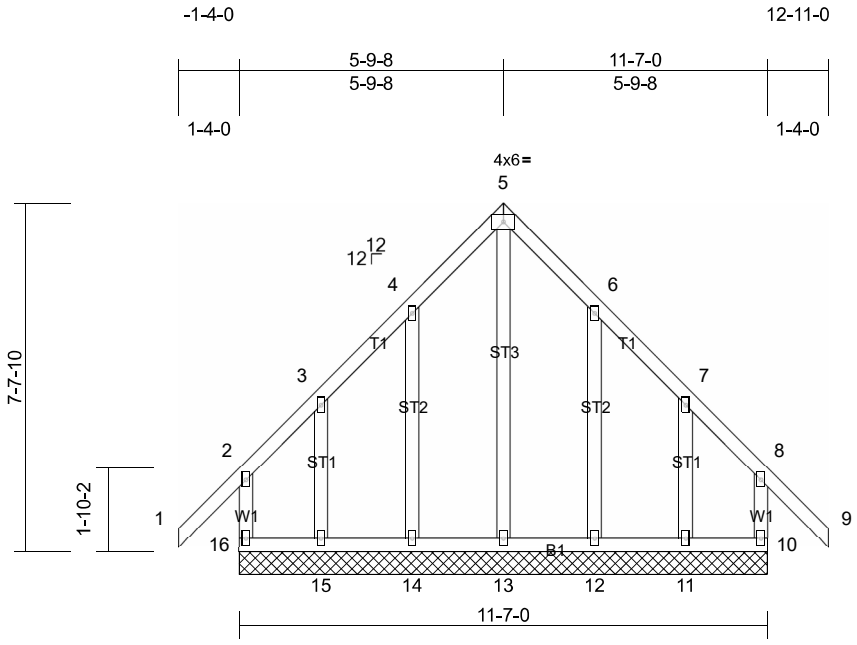
REACTIONS (lb/size) 13=898/0-5-8, (min. 0-1-8), 19=991/0-5-8, (min. 0-1-8)
Max Horiz 19=230 (LC 14)
Max Grav 13=1501 (LC 26), 19=1424 (LC 26)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-20=-284/0, 4-18=0/605, 3-4=-345/173, 4-5=-5901/692, 5-6=-8027/0, 6-7=-8027/0, 7-8=-8027/0, 8-9=-7515/0, 9-10=-5733/0, 10-21=-5733/0, 11-21=-5733/0, 2-19=-374/0
BOT CHORD 18-19=-497/4725, 17-18=-98/7451, 16-17=0/7518, 15-16=0/7518, 14-15=0/7518, 13-14=0/3321
WEBS 5-18=-1932/0, 5-17=0/867, 6-17=-365/0, 8-17=-268/547, 11-13=-3440/0, 11-14=0/2597, 10-14=-302/0, 9-14=-1901/11, 4-19=-4692/167

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 21-10-4 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
5) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
7) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain load requirements specific to the use of this truss component.
8) Provide adequate drainage to prevent water ponding.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 354 lb down and 74 lb up at 4-7-0 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: 1-2=-29, 2-3=-29, 4-12=-65, 13-19=-13
Concentrated Loads (lb)
Vert: 3=-300
3) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-33, 2-3=-33, 4-12=-123, 13-19=-13
Concentrated Loads (lb)
Vert: 3=-287

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	G1E	Common Supported Gable	1	1	Job Reference (optional)



Scale = 1:50.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 87 lb	FT = 20%

LUMBER

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

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

REACTIONS All bearings 11-7-0.

(lb) - Max Horiz 16=-190 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 12, 14 except 10=-126 (LC 11), 11=-136 (LC 10), 15=-141 (LC 11), 16=-133 (LC 10)
Max Grav All reactions 250 (lb) or less at joint (s) 10, 11, 12, 13, 14, 15, 16

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

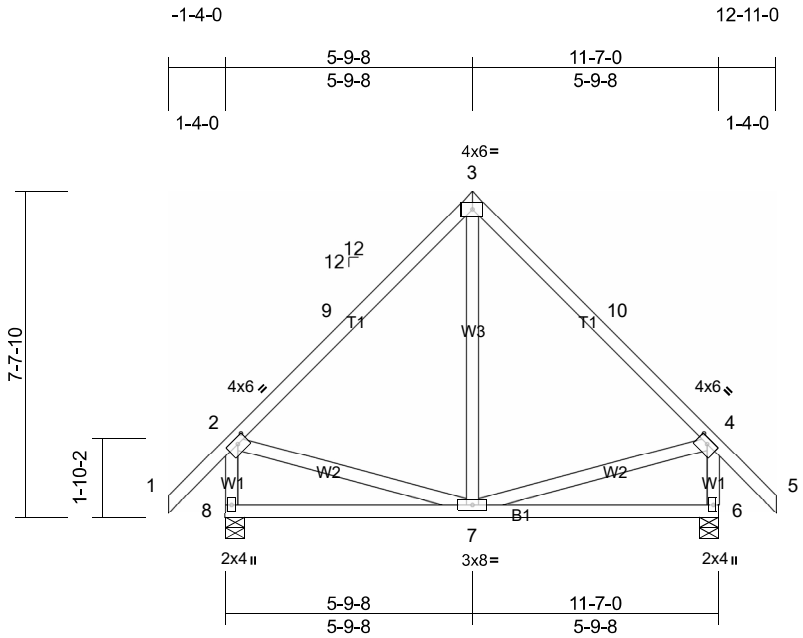
TOP CHORD	4-5=-140/346, 5-6=-139/346
WEBS	5-13=-414/98

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-4-0 to 1-9-8, Exterior(2N) 1-9-8 to 5-9-8, Corner(3R) 5-9-8 to 8-9-8, Exterior(2N) 8-9-8 to 12-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) All plates are 2x4 (||) MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * 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.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 14, 12 except (jt=lb) 16=132, 10=126, 15=140, 11=136.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	G2	Common	5	1	Job Reference (optional)



Scale = 1:54.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.02	7-8	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.04	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 79 lb	FT = 20%

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

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

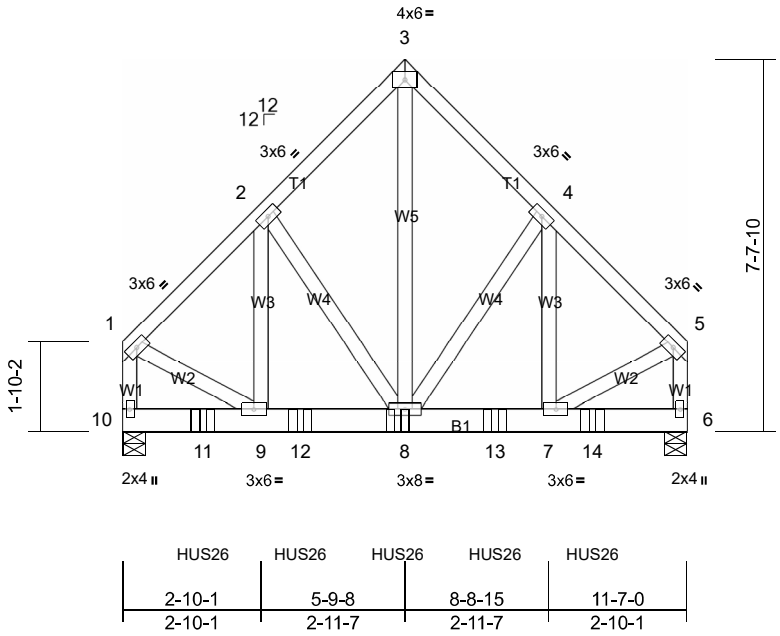
REACTIONS (lb/size) 6=420/0-5-8, (min. 0-1-8), 8=420/0-5-8, (min. 0-1-8)
Max Horiz 8=-190 (LC 12)
Max Uplift 6=-50 (LC 15), 8=-50 (LC 14)
Max Grav 6=540 (LC 2), 8=540 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-393/124, 3-9=-268/149, 3-10=-268/149, 4-10=-393/124, 2-8=-490/180, 4-6=-490/180

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 5-9-8, Exterior(2R) 5-9-8 to 8-9-8, Interior (1) 8-9-8 to 12-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 50 lb uplift at joint 8 and 50 lb uplift at joint 6.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	G3G	Common Girder	1	2	Job Reference (optional)



Scale = 1:47.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	-0.02	7-8	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.03	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 200 lb	FT = 20%

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

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

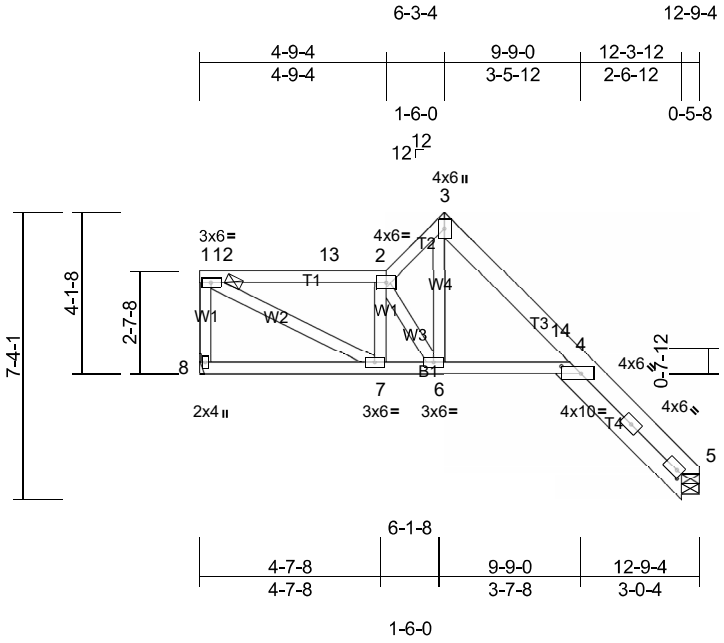
REACTIONS (lb/size) 6=1814/0-5-8, (min. 0-1-8), 10=2129/0-5-8, (min. 0-1-8)
Max Horiz 10=-158 (LC 8)
Max Uplift 6=-239 (LC 10), 10=-245 (LC 11)
Max Grav 6=2425 (LC 21), 10=2467 (LC 22)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1962/228, 2-3=-1620/246, 3-4=-1620/246, 4-5=-1991/230, 1-10=-2167/224, 5-6=-2203/226
BOT CHORD 9-12=-189/1420, 8-12=-189/1420, 8-13=-118/1387, 7-13=-118/1387
WEBS 2-9=-71/587, 1-9=-128/1500, 2-8=-522/141, 3-8=-281/2054, 4-8=-492/143, 4-7=-74/507, 5-7=-130/1531

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 245 lb uplift at joint 10 and 239 lb uplift at joint 6.
10) Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-7-12 from the left end to 9-7-12 to connect truss(es) E2 (1 ply 2x4 SP), E3 (1 ply 2x4 SP), E4 (1 ply 2x4 SP) to back face of bottom chord.
11) 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: 1-3=-43, 3-5=-43, 6-10=-20
Concentrated Loads (lb)
Vert: 8=-554 (B), 11=-786 (B), 12=-783 (B), 13=-554 (B), 14=-554 (B)

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	H1	Roof Special	1	1	Job Reference (optional)



Scale = 1:58.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.11	6-11	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.23	6-11	>637	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.22	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 79 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T3,T4:2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

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

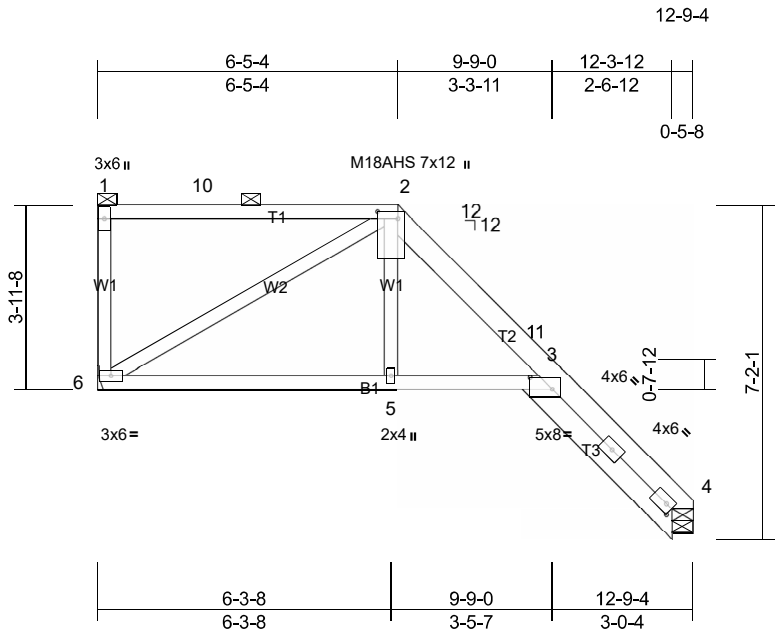
REACTIONS (lb/size) 5=422/0-5-8, (min. 0-1-8), 8=429/ Mechanical
Max Horiz 8=-151 (LC 12)
Max Uplift 5=-56 (LC 17), 8=-55 (LC 16)
Max Grav 5=517 (LC 2), 8=526 (LC 41)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-475/140, 1-12=-614/163, 12-13=-614/163, 2-13=-614/163, 2-3=-663/200, 3-4=-550/149, 4-14=-956/142, 4-14=-973/139, 4-5=-367/135
BOT CHORD 6-7=0/635, 4-6=0/463
WEBS 1-7=-176/650, 2-7=-336/137, 3-6=-153/548, 2-6=-369/115

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 6-3-4, Exterior(2R) 6-3-4 to 9-3-4, Interior (1) 9-3-4 to 12-5-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain load requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
10) 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.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 8 and 56 lb uplift at joint 5.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	H2	Roof Special	1	1	Job Reference (optional)



Scale = 1:49.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.14	5-9	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.25	5-9	>603	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.23	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 76 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* T1:2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

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

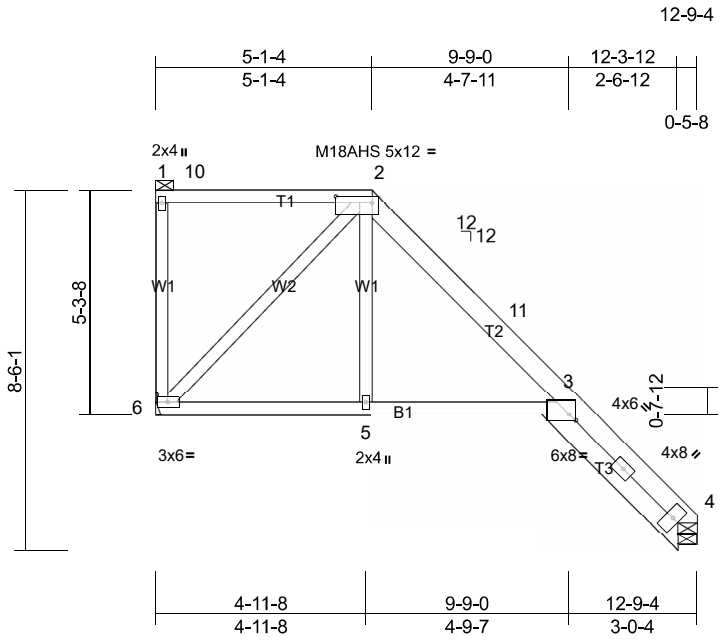
REACTIONS (lb/size) 4=429/0-5-8, (min. 0-1-8), 6=438/ Mechanical
Max Horiz 6=-163 (LC 12)
Max Uplift 4=-54 (LC 17), 6=-72 (LC 12)
Max Grav 4=597 (LC 38), 6=584 (LC 37)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-266/60, 2-3=-562/81, 3-11=-1021/66, 3-11=-1038/62, 3-4=-421/95
BOT CHORD 5-6=-12/501, 3-5=-15/492
WEBS 2-6=-542/104, 2-5=0/341

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 6-5-4, Exterior(2R) 6-5-4 to 9-5-4, Interior (1) 9-5-4 to 12-5-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
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) Refer to girder(s) for truss to truss connections.
11) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 4 and 72 lb uplift at joint 6.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	H3	Roof Special	1	1	Job Reference (optional)



Scale = 1:54.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.23	5-9	>648	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.39	5-9	>382	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.34	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 82 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* T1:2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2

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

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

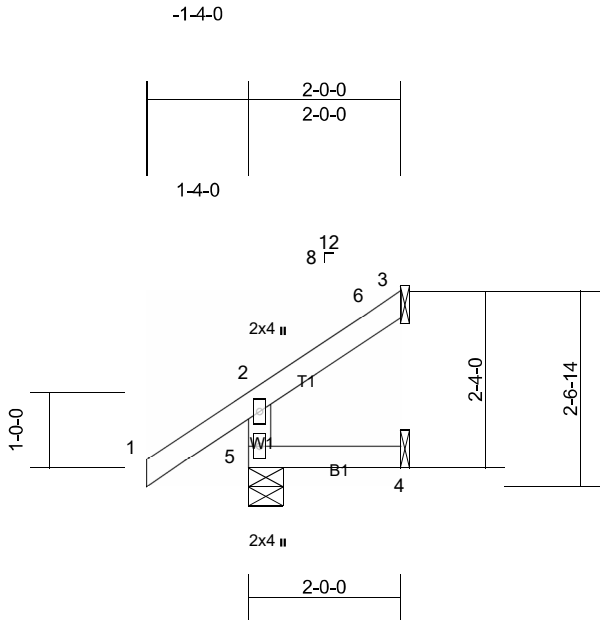
REACTIONS (lb/size) 4=423/0-5-8, (min. 0-1-8), 6=431/ Mechanical
Max Horiz 6=-203 (LC 12)
Max Uplift 4=-55 (LC 17), 6=-76 (LC 12)
Max Grav 4=634 (LC 38), 6=539 (LC 37)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-431/86, 3-11=-486/60, 3-4=-449/96
BOT CHORD 5-6=-11/382, 3-5=-13/376
WEBS 2-6=-527/120, 2-5=-4/301

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 5-1-4, Exterior(2R) 5-1-4 to 8-1-4, Interior (1) 8-1-4 to 12-5-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
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) Refer to girder(s) for truss to truss connections.
11) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 4 and 76 lb uplift at joint 6.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	J1	Jack-Open	1	1	Job Reference (optional)



Scale = 1:30.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 10 lb	FT = 20%

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

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

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

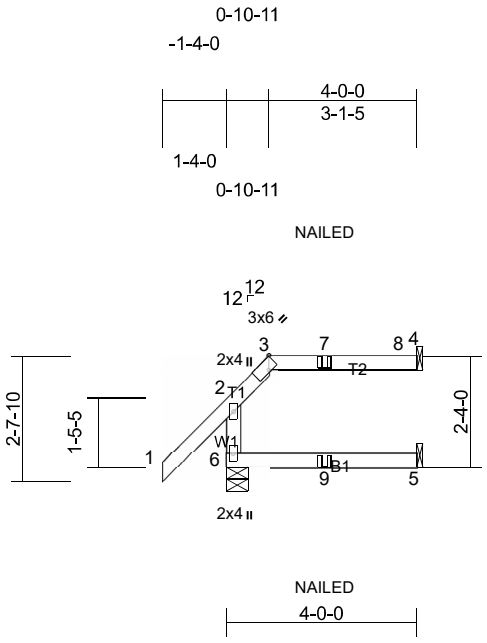
REACTIONS (lb/size) 3=21/ Mechanical, 4=12/ Mechanical, 5=147/0-5-8, (min. 0-1-8)
Max Horiz 5=56 (LC 14)
Max Uplift 3=-29 (LC 14), 4=-5 (LC 14), 5=-12 (LC 14)
Max Grav 3=36 (LC 26), 4=32 (LC 5), 5=198 (LC 2)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 1-11-14 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
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 5, 29 lb uplift at joint 3 and 5 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	J2	Jack-Open Girder	1	1	Job Reference (optional)



Scale = 1:48.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	0.01	5-6	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.02	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.05	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 17 lb	FT = 20%

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

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

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

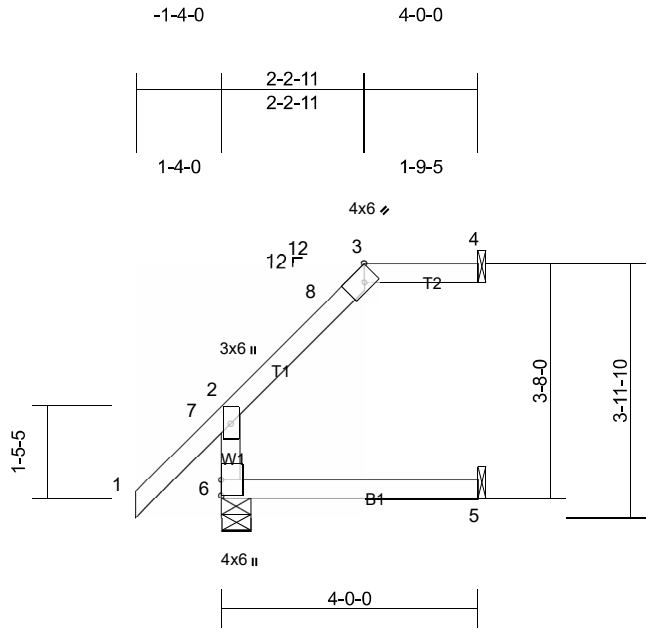
REACTIONS (lb/size) 4=87/ Mechanical, 5=37/ Mechanical, 6=207/0-5-8, (min. 0-1-8)
Max Horiz 6=54 (LC 9)
Max Uplift 4=-39 (LC 9), 5=-3 (LC 9), 6=-34 (LC 12)
Max Grav 4=150 (LC 33), 5=71 (LC 7), 6=289 (LC 34)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 6, 39 lb uplift at joint 4 and 3 lb uplift at joint 5.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
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: 1-2=-43, 2-3=-43, 3-4=-53, 5-6=-20
Concentrated Loads (lb)
Vert: 9=3 (B)

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	J3	Jack-Open	1	1	Job Reference (optional)



Scale = 1:36

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	0.03	5-6	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	0.03	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.11	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 18 lb	FT = 20%

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

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

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

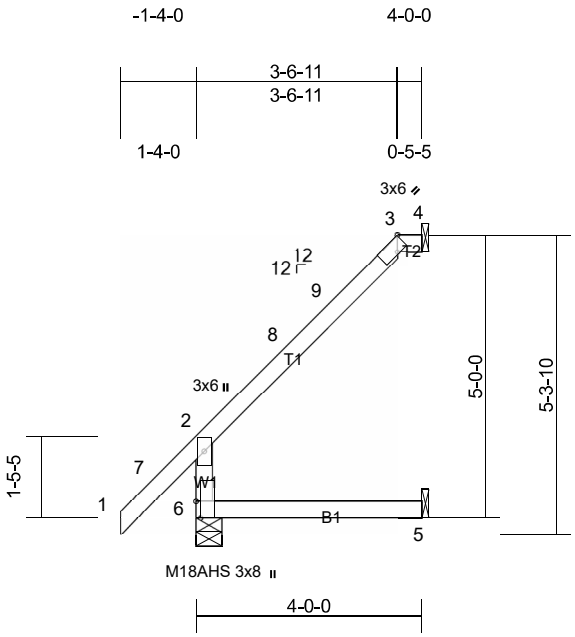
REACTIONS (lb/size) 4=82/ Mechanical, 5=39/ Mechanical, 6=200/0-5-8, (min. 0-1-8)
Max Horiz 6=93 (LC 16)
Max Uplift 4=-42 (LC 13), 5=-9 (LC 16), 6=-2 (LC 16)
Max Grav 4=123 (LC 37), 5=72 (LC 7), 6=340 (LC 38)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-302/139

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 2-2-11, Exterior(2E) 2-2-11 to 3-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 6, 42 lb uplift at joint 4 and 9 lb uplift at joint 5.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	J4	Jack-Open	1	1	Job Reference (optional)



Scale = 1:40.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	0.04	5-6	>999	240	M18AHS	186/179
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	0.04	5-6	>999	180	MT20	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.12	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 19 lb	FT = 20%

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

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

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

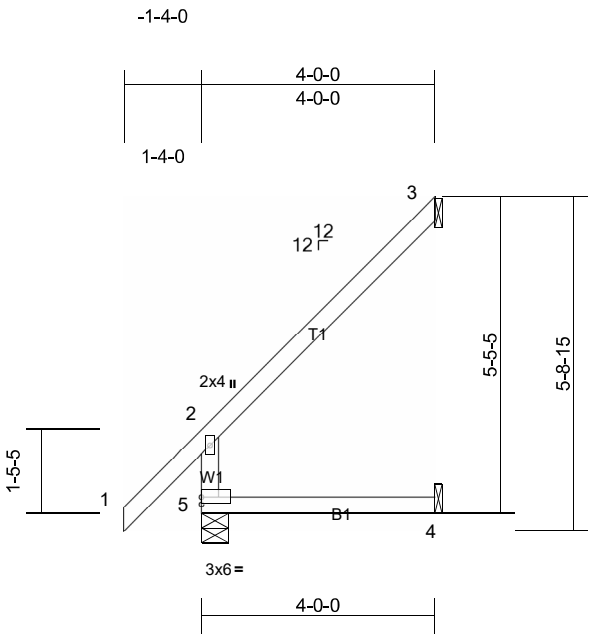
REACTIONS (lb/size) 4=72/ Mechanical, 5=38/ Mechanical, 6=196/0-5-8, (min. 0-1-8)
Max Horiz 6=135 (LC 16)
Max Uplift 4=-84 (LC 16), 5=-20 (LC 16)
Max Grav 4=118 (LC 42), 5=72 (LC 7), 6=363 (LC 38)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-329/88

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 3-6-11, Exterior(2E) 3-6-11 to 3-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain load requirements specific to the use of this truss component.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) Refer to girder(s) for truss to truss connections.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 4 and 20 lb uplift at joint 5.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	J5	Jack-Open	19	1	Job Reference (optional)



Scale = 1:39.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	0.03	4-5	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.03	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.06	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 19 lb	FT = 20%

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

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

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

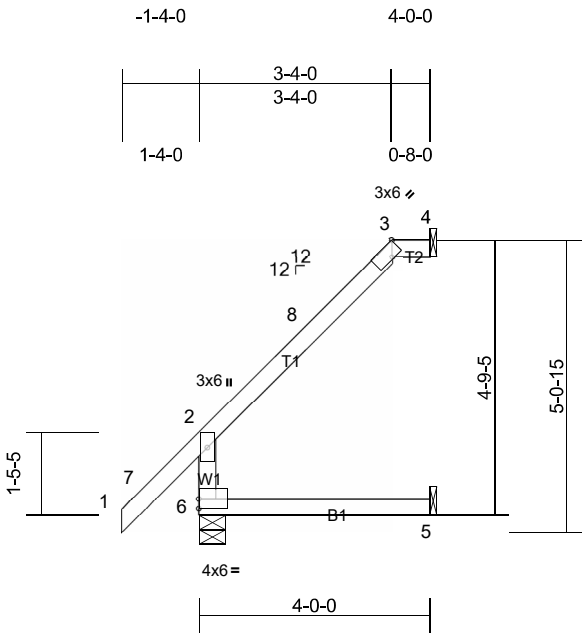
REACTIONS (lb/size) 3=69/ Mechanical, 4=38/ Mechanical, 5=196/0-5-8, (min. 0-1-8)
Max Horiz 5=145 (LC 14)
Max Uplift 3=-100 (LC 14), 4=-22 (LC 14)
Max Grav 3=113 (LC 26), 4=72 (LC 5), 5=258 (LC 2)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 3-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint 3 and 22 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	J6	Jack-Open	1	1	Job Reference (optional)



Scale = 1:40

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	0.04	5-6	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	0.04	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.12	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 19 lb	FT = 20%

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

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

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

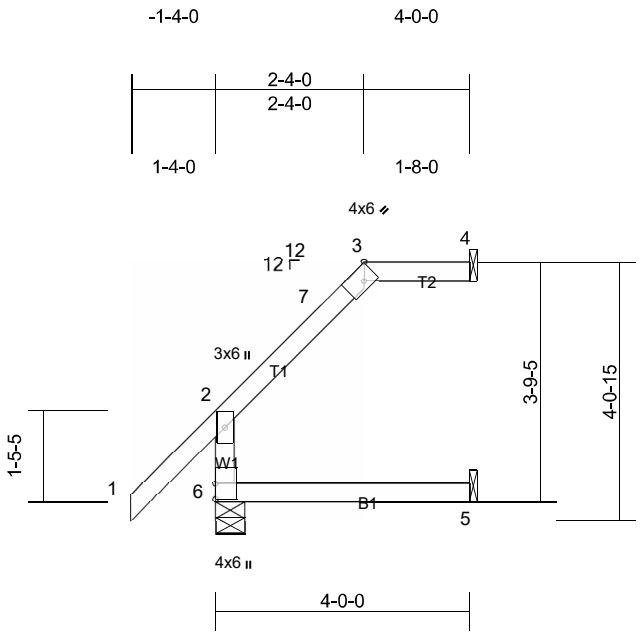
REACTIONS (lb/size) 4=74/ Mechanical, 5=39/ Mechanical, 6=196/0-5-8, (min. 0-1-8)
Max Horiz 6=128 (LC 16)
Max Uplift 4=-74 (LC 16), 5=-19 (LC 16)
Max Grav 4=105 (LC 38), 5=72 (LC 7), 6=362 (LC 38)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-327/98

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 3-4-0, Exterior(2E) 3-4-0 to 3-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 4 and 19 lb uplift at joint 5.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	J7	Jack-Open	1	1	Job Reference (optional)



Scale = 1:36.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	0.03	5-6	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	0.03	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.12	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 18 lb	FT = 20%

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

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

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

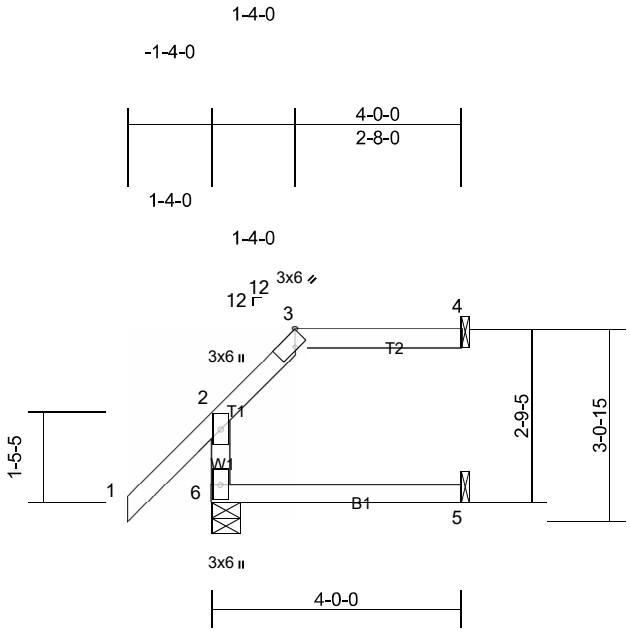
REACTIONS (lb/size) 4=81/ Mechanical, 5=39/ Mechanical, 6=199/0-5-8, (min. 0-1-8)
Max Horiz 6=97 (LC 16)
Max Uplift 4=-42 (LC 13), 5=-10 (LC 16)
Max Grav 4=119 (LC 37), 5=72 (LC 7), 6=343 (LC 38)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-305/135

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 2-4-0, Exterior(2E) 2-4-0 to 3-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 4 and 10 lb uplift at joint 5.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	J8	Jack-Open	1	1	Job Reference (optional)



Scale = 1:36.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	0.02	5-6	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.02	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.06	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 17 lb	FT = 20%

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

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

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

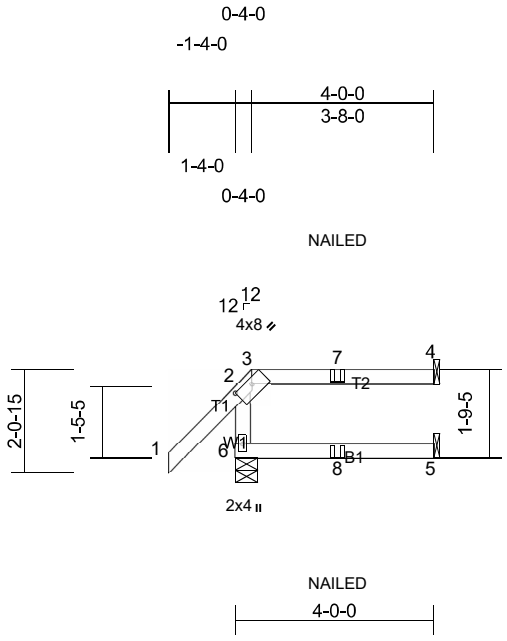
REACTIONS (lb/size) 4=86/ Mechanical, 5=39/ Mechanical, 6=205/0-5-8, (min. 0-1-8)
Max Horiz 6=65 (LC 16)
Max Uplift 4=-38 (LC 13), 5=-1 (LC 16), 6=-17 (LC 16)
Max Grav 4=144 (LC 37), 5=71 (LC 7), 6=309 (LC 38)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-266/162

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 3-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 6, 38 lb uplift at joint 4 and 1 lb uplift at joint 5.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	J9	Jack-Open Girder	1	1	Job Reference (optional)



Scale = 1:46.4

Plate Offsets (X, Y): [2:0-4-6,0-1-5]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.01	5-6	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.02	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.03	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 17 lb	FT = 20%

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

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

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

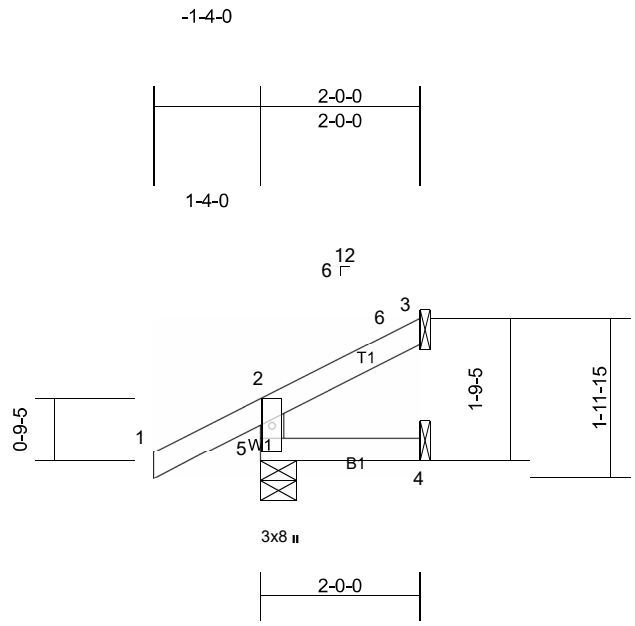
REACTIONS (lb/size) 4=87/ Mechanical, 5=38/ Mechanical, 6=212/0-5-8, (min. 0-1-8)
Max Horiz 6=43 (LC 7)
Max Uplift 4=-35 (LC 7), 6=-26 (LC 10)
Max Grav 4=103 (LC 30), 5=71 (LC 5), 6=248 (LC 2)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 6 and 35 lb uplift at joint 4.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-43, 2-3=-43, 3-4=-53, 5-6=-20
Concentrated Loads (lb)
Vert: 8=1 (F)

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	J10	Jack-Open	1	1	Job Reference (optional)



Scale = 1:28.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 9 lb	FT = 20%

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

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

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

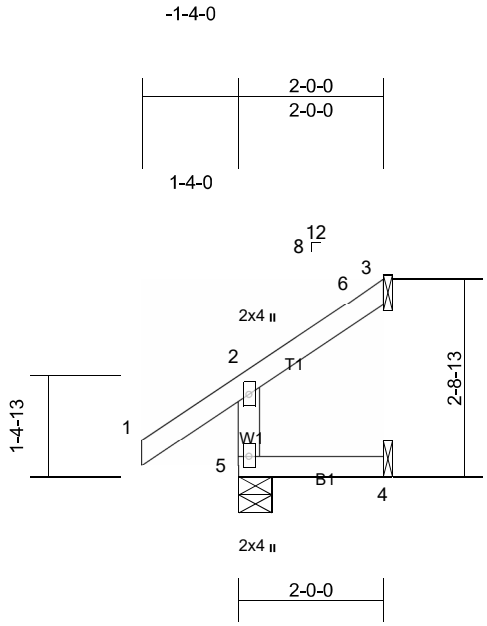
REACTIONS (lb/size) 3=22/ Mechanical, 4=11/ Mechanical, 5=147/0-5-8, (min. 0-1-8)
Max Horiz 5=43 (LC 16)
Max Uplift 3=-21 (LC 16), 5=-26 (LC 16)
Max Grav 3=31 (LC 23), 4=31 (LC 7), 5=207 (LC 23)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 1-11-14 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
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain load requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 5 and 21 lb uplift at joint 3.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	J11	Jack-Open	3	1	Job Reference (optional)



Scale = 1:31.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	0.00	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 11 lb	FT = 20%

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

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

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

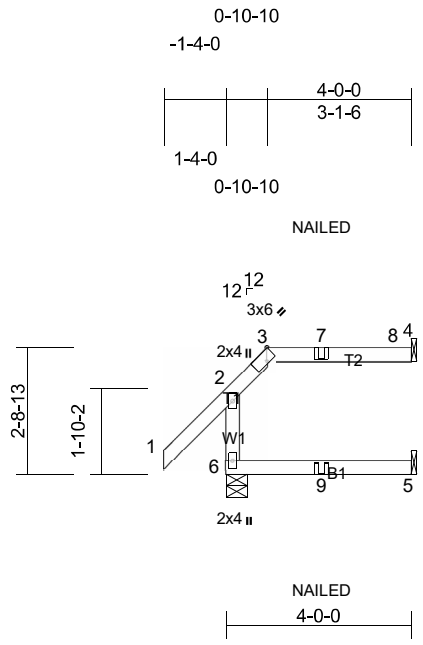
REACTIONS (lb/size) 3=20/ Mechanical, 4=13/ Mechanical, 5=147/0-5-8, (min. 0-1-8)
Max Horiz 5=54 (LC 11)
Max Uplift 3=-35 (LC 14), 4=-12 (LC 14)
Max Grav 3=37 (LC 26), 4=32 (LC 5), 5=198 (LC 2)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 1-11-14 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
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 3 and 12 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	J12	Jack-Open Girder	3	1	Job Reference (optional)



Scale = 1:49.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	0.01	5-6	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.02	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.06	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 18 lb	FT = 20%

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

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

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

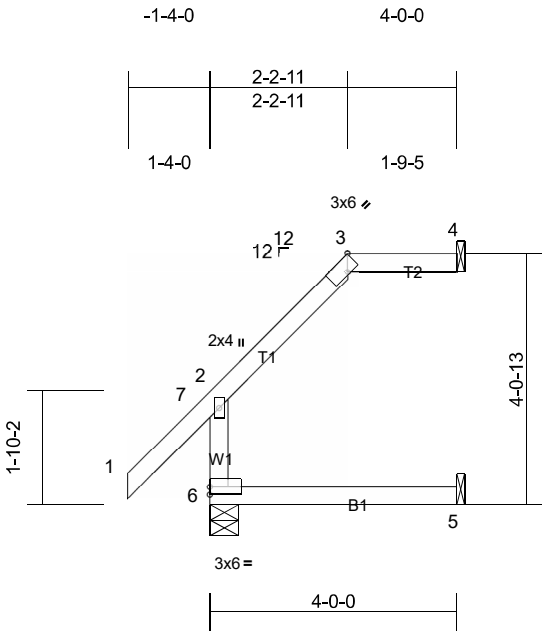
REACTIONS (lb/size) 4=87/ Mechanical, 5=37/ Mechanical, 6=207/0-5-8, (min. 0-1-8)
Max Horiz 6=61 (LC 9)
Max Uplift 4=-45 (LC 9), 5=-10 (LC 9), 6=-34 (LC 12)
Max Grav 4=150 (LC 33), 5=71 (LC 7), 6=289 (LC 34)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 6, 45 lb uplift at joint 4 and 10 lb uplift at joint 5.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
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: 1-2=-43, 2-3=-43, 3-4=-53, 5-6=-20
Concentrated Loads (lb)
Vert: 9=3 (F)

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	J13	Jack-Open	3	1	Job Reference (optional)



Scale = 1:37.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	0.02	5-6	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.03	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.11	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 19 lb	FT = 20%

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

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

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

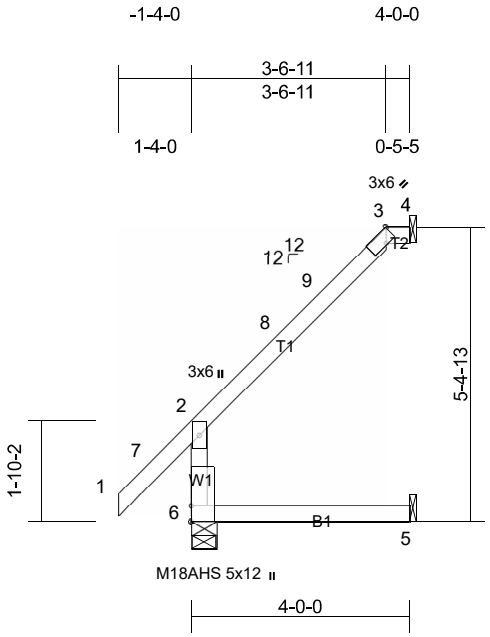
REACTIONS (lb/size) 4=82/ Mechanical, 5=39/ Mechanical, 6=200/0-5-8, (min. 0-1-8)
Max Horiz 6=89 (LC 16)
Max Uplift 4=-46 (LC 13), 5=-14 (LC 16)
Max Grav 4=123 (LC 37), 5=72 (LC 7), 6=340 (LC 38)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-302/51

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 2-2-11, Exterior(2E) 2-2-11 to 3-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 4 and 14 lb uplift at joint 5.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	J14	Jack-Open	3	1	Job Reference (optional)



Scale = 1:42.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	0.05	5-6	>863	240	M18AHS	186/179
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	0.05	5-6	>928	180	MT20	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.19	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 19 lb	FT = 20%

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

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

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

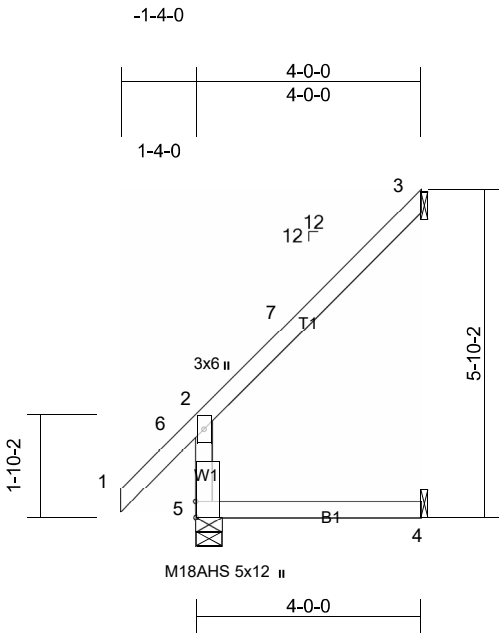
REACTIONS (lb/size) 4=72/ Mechanical, 5=38/ Mechanical, 6=196/0-5-8, (min. 0-1-8)
Max Horiz 6=130 (LC 16)
Max Uplift 4=-91 (LC 16), 5=-27 (LC 16)
Max Grav 4=121 (LC 42), 5=72 (LC 7), 6=363 (LC 38)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-329/76

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 3-6-11, Exterior(2E) 3-6-11 to 3-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) Refer to girder(s) for truss to truss connections.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 4 and 27 lb uplift at joint 5.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	J15	Jack-Open	3	1	Job Reference (optional)



Scale = 1:41

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	0.05	4-5	>827	240	M18AHS	186/179
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	0.05	4-5	>892	180	MT20	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.16	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 20 lb	FT = 20%

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

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

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

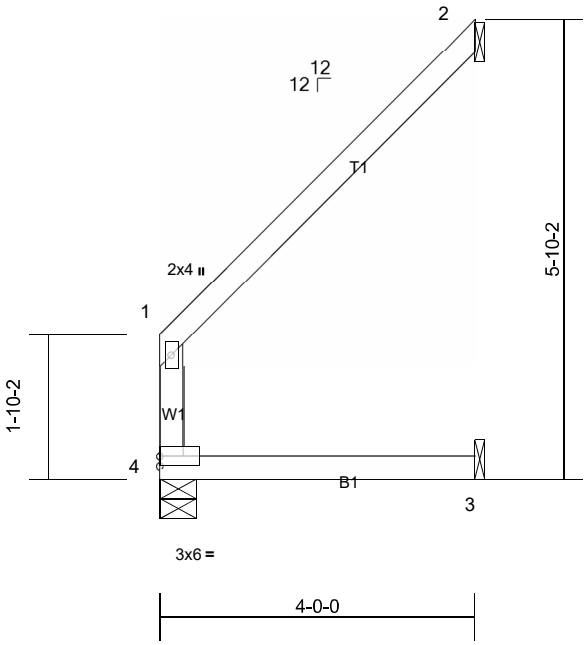
REACTIONS (lb/size) 3=69/ Mechanical, 4=38/ Mechanical, 5=196/0-5-8, (min. 0-1-8)
Max Horiz 5=140 (LC 14)
Max Uplift 3=-107 (LC 14), 4=-30 (LC 14)
Max Grav 3=116 (LC 26), 4=72 (LC 5), 5=258 (LC 2)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 3-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 3 and 30 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	J15A	Jack-Open	6	1	Job Reference (optional)



Scale = 1:29.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	0.03	3-4	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.04	3-4	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.10	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 17 lb	FT = 20%

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

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

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

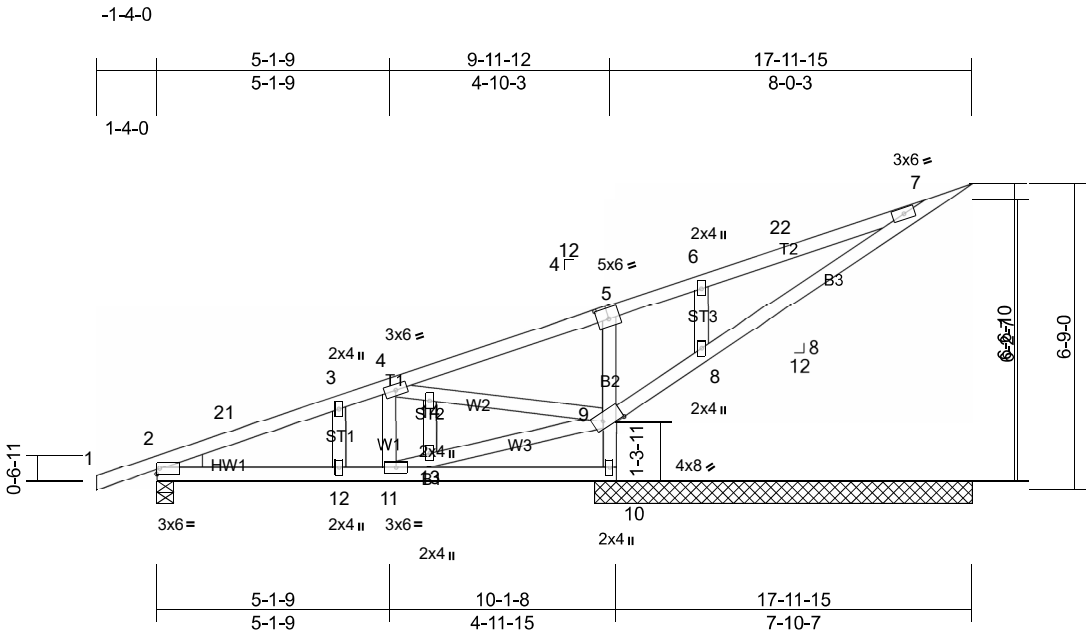
REACTIONS (lb/size) 2=76/ Mechanical, 3=43/ Mechanical, 4=120/0-5-8, (min. 0-1-8)
Max Horiz 4=101 (LC 14)
Max Uplift 2=-107 (LC 14), 3=-25 (LC 14)
Max Grav 2=126 (LC 25), 3=74 (LC 5), 4=155 (LC 27)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 3-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 107 lb uplift at joint 2 and 25 lb uplift at joint 3.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	M1G	Monopitch Structural Gable	1	1	Job Reference (optional)



Scale = 1:50.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.07	15-17	>866	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.16	15-17	>375	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.05	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 87 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2
WEDGE	Left: 2x4 SP No.2

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.

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

REACTIONS All bearings 8-4-0. except 2=0-4-8 (lb) - Max Horiz 2=194 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 8 except 2=-116 (LC 12), 10=-208 (LC 12)
Max Grav All reactions 250 (lb) or less at joint (s) 7 except 2=368 (LC 2), 8=439 (LC 23), 10=683 (LC 2)

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

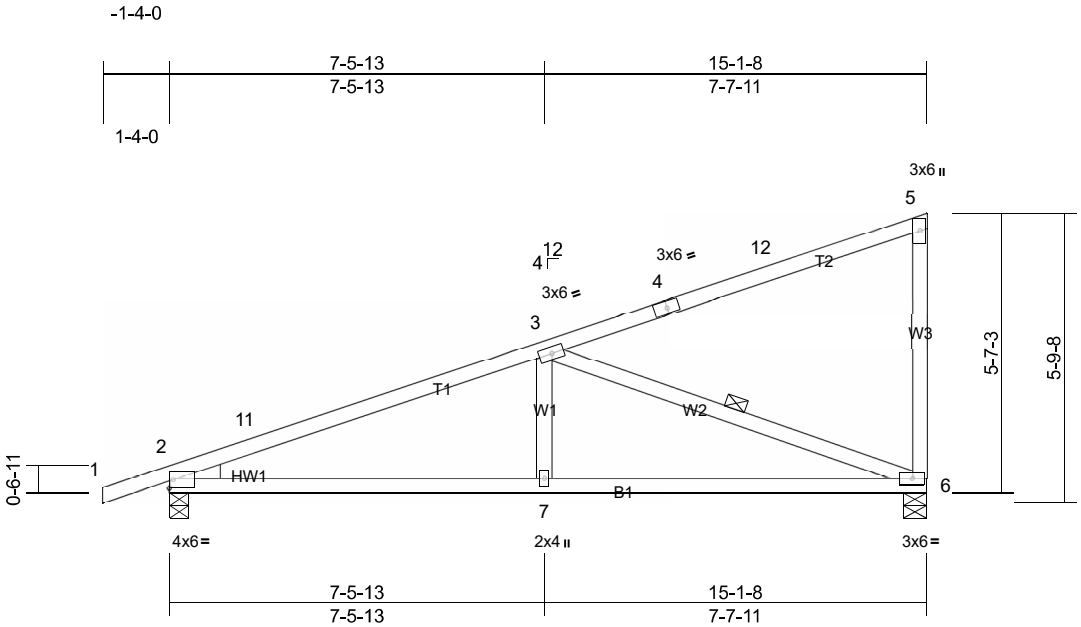
TOP CHORD	2-21=-335/95, 3-21=-293/102, 3-4=-269/110, 4-5=-231/539, 5-6=-211/589, 6-22=-172/491, 7-22=-162/555
BOT CHORD	2-12=-236/277, 11-12=-236/277, 9-10=-642/213, 8-9=-630/148, 7-8=-151/666
WEBS	11-13=-229/287, 9-13=-231/295, 4-14=-746/333, 9-14=-744/333, 6-8=-338/98

NOTES

1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 16-11-5 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
10) 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.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 8 except (jt=lb) 2=115, 10=208.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	M2	Monopitch	9	1	Job Reference (optional)



Scale = 1:46.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.08	6-7	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.18	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 72 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-2-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-11-0 oc bracing.
WEBS 1 Row at midpt 3-6

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

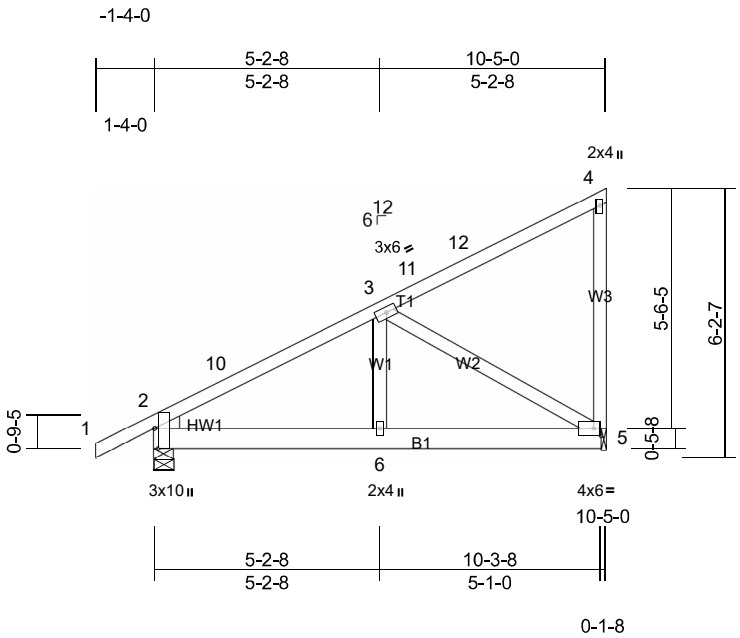
REACTIONS (lb/size) 2=533/0-4-8, (min. 0-1-8), 6=470/0-5-8, (min. 0-1-8)
Max Horiz 2=183 (LC 15)
Max Uplift 2=-238 (LC 12), 6=-223 (LC 12)
Max Grav 2=683 (LC 2), 6=596 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-1077/437, 3-11=-951/462
BOT CHORD 2-7=-536/960, 6-7=-536/960
WEBS 3-7=-131/330, 3-6=-995/500

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 14-11-12 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 238 lb uplift at joint 2 and 223 lb uplift at joint 6.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	M3	Monopitch	2	1	Job Reference (optional)



Scale = 1:53.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.01	5-6	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.01	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 64 lb	FT = 20%

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

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

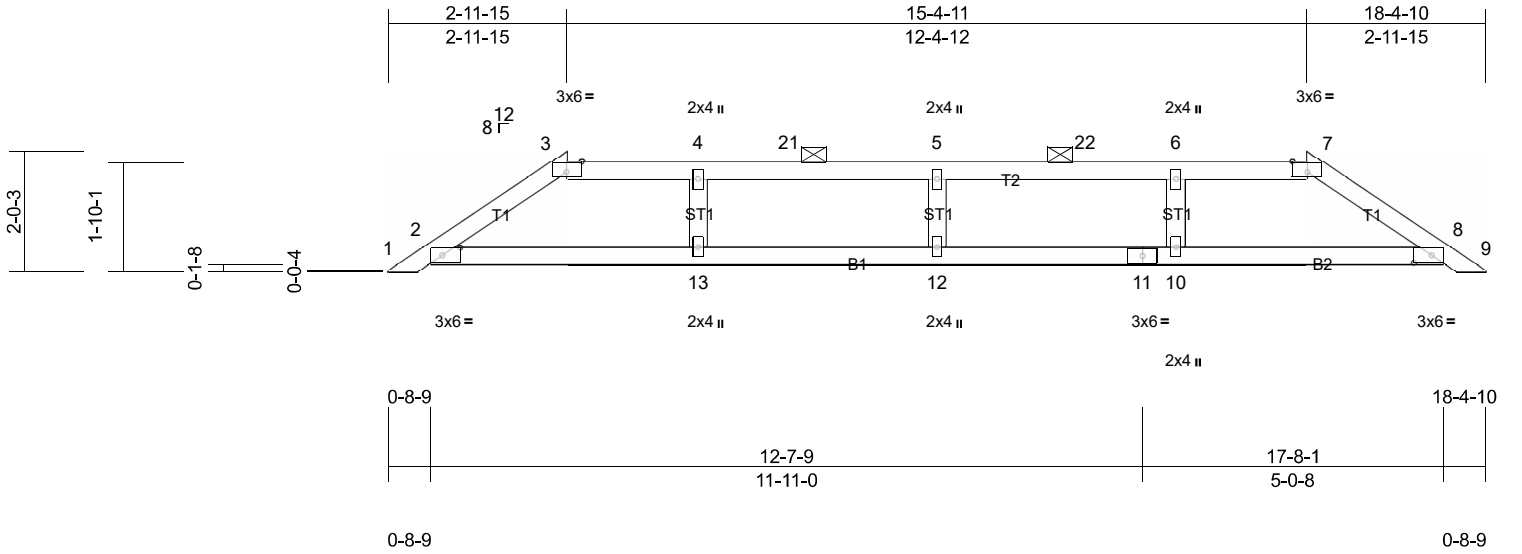
REACTIONS (lb/size) 2=385/0-5-8, (min. 0-1-8), 5=320/0-1-8, (min. 0-1-8)
Max Horiz 2=182 (LC 15)
Max Uplift 2=-65 (LC 16), 5=-90 (LC 16)
Max Grav 2=496 (LC 2), 5=406 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-505/107, 3-10=-393/129
BOT CHORD 2-6=-256/402, 5-6=-237/402
WEBS 3-5=-455/201

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 10-3-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) 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.
10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 2 and 90 lb uplift at joint 5.
12) Gap between inside of extended chord bearing and first diagonal or vertical web shall not exceed 0.500in at joint 5.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	PB1	Piggyback	1	1	Job Reference (optional)



Scale = 1:38.6

Plate Offsets (X, Y): [2:0-3-9,0-1-8], [3:0-3-0,Edge], [7:0-3-0,Edge], [8:0-3-9,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	17	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 59 lb	FT = 20%

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

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

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

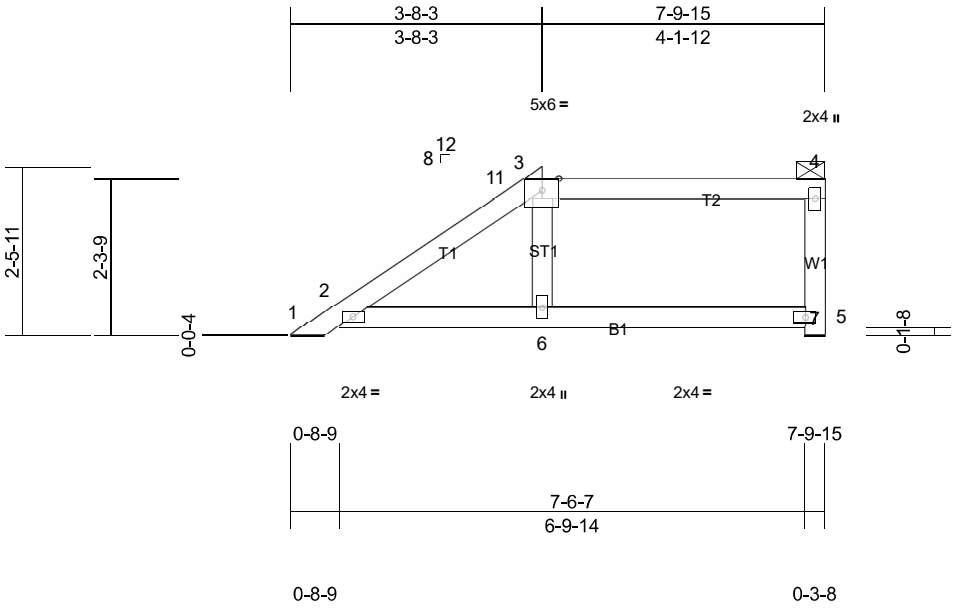
REACTIONS All bearings 16-11-8.
(lb) - Max Horiz 2=35 (LC 15)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 8, 10, 12, 13
Max Grav All reactions 250 (lb) or less at joint (s) except 2=271 (LC 41), 8=271 (LC 41), 10=378 (LC 40), 12=412 (LC 40), 13=378 (LC 40)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-12=-338/94, 4-13=-285/79, 6-10=-285/81

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-3-5 to 3-0-5, Corner(3R) 3-0-5 to 6-0-5, Exterior(2N) 6-0-5 to 15-5-1, Corner(3E) 15-5-1 to 18-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
7) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
8) Provide adequate drainage to prevent water ponding.
9) Gable requires continuous bottom chord bearing.
10) Gable studs spaced at 4-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * 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.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 2, 12, 13, 10, 8, 2, 8.
14) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	PB2	Piggyback	1	1	Job Reference (optional)



Scale = 1:33.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 28 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

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

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

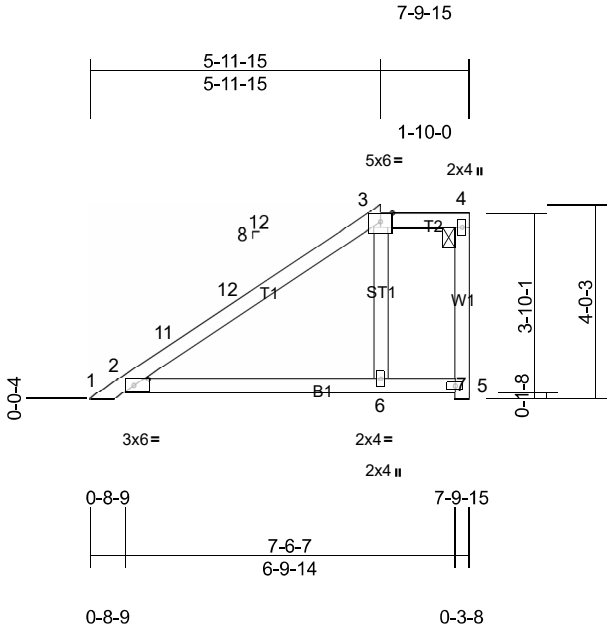
REACTIONS All bearings 6-9-14.
(lb) - Max Horiz 2=66 (LC 15)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 5, 6
Max Grav All reactions 250 (lb) or less at joint (s) 2, 5 except 6=301 (LC 2)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Interior (1) 3-3-5 to 3-8-9, Exterior(2E) 3-8-9 to 7-8-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
7) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
8) Provide adequate drainage to prevent water ponding.
9) Gable requires continuous bottom chord bearing.
10) Gable studs spaced at 4-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * 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.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 2, 5, 6, 2.
14) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	PB3	Piggyback	1	1	Job Reference (optional)



Scale = 1:47.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 34 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

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

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

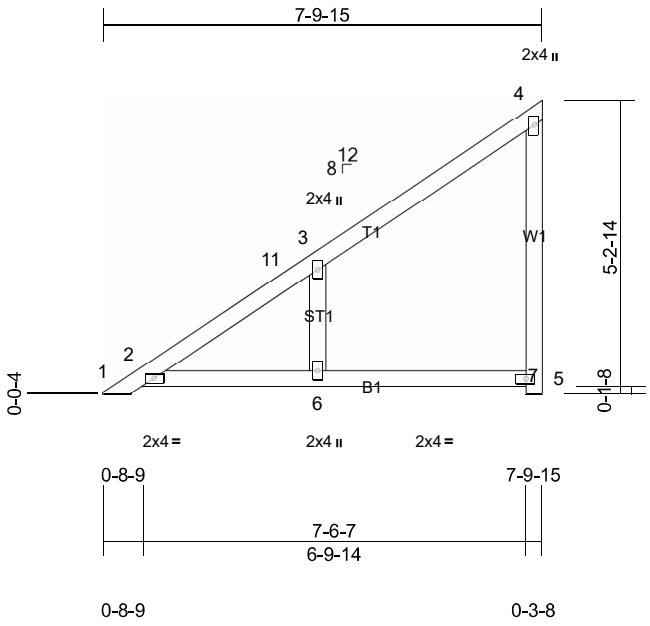
REACTIONS All bearings 6-9-14.
(lb) - Max Horiz 2=113 (LC 15)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 5, 6
Max Grav All reactions 250 (lb) or less at joint (s) 5 except 2=283 (LC 38), 6=398 (LC 38)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Interior (1) 3-3-5 to 6-0-5, Exterior(2E) 6-0-5 to 7-8-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
7) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
8) Provide adequate drainage to prevent water ponding.
9) Gable requires continuous bottom chord bearing.
10) Gable studs spaced at 4-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * 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.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 2, 5, 6, 2.
14) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	PB4	Piggyback	9	1	Job Reference (optional)



Scale = 1:41.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 34 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP 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.

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

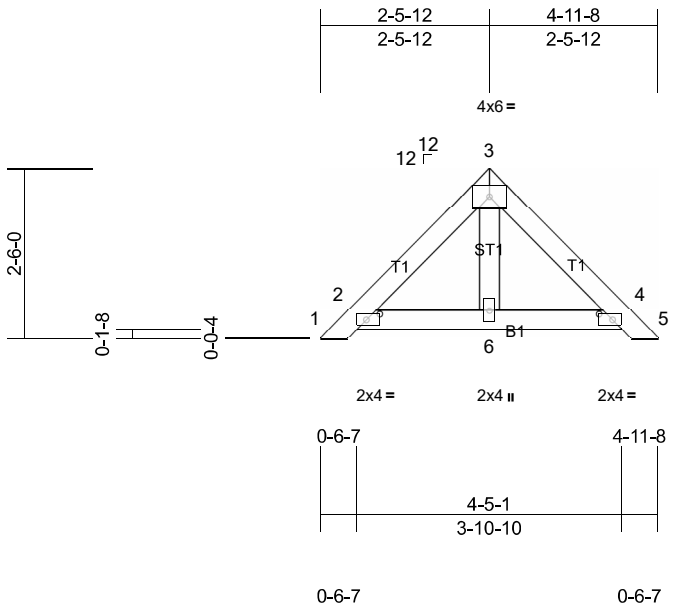
REACTIONS All bearings 6-9-14.
(lb) - Max Horiz 2=153 (LC 13)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 5 except 6=-121 (LC 14)
Max Grav All reactions 250 (lb) or less at joint (s) 2, 5 except 6=360 (LC 26)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-265/153

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Interior (1) 3-3-5 to 7-8-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 4-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 2, 5, 2 except (jt=lb) 6=120.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	PB5E	Piggyback	1	1	Job Reference (optional)



Scale = 1:33.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	n/a	-	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 19 lb	FT = 20%

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

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

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

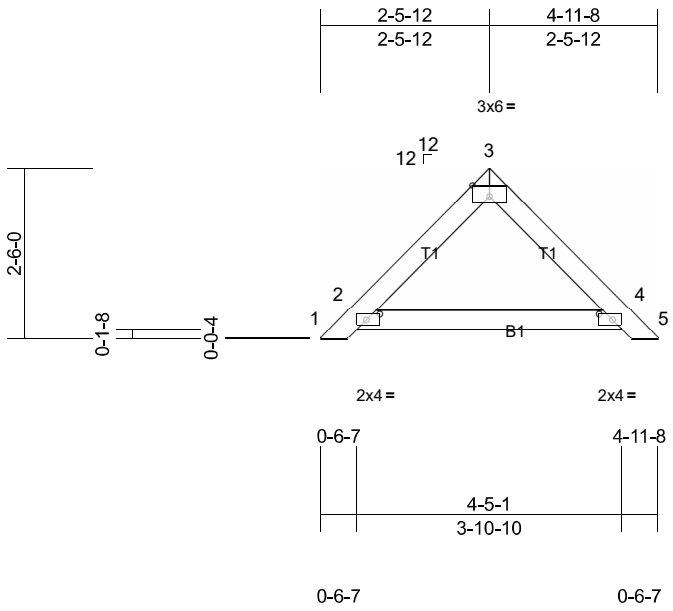
REACTIONS (lb/size) 2=88/3-10-10, (min. 0-1-8), 4=88/3-10-10, (min. 0-1-8), 6=99/3-10-10, (min. 0-1-8)
Max Horiz 2=-46 (LC 12)
Max Uplift 2=-16 (LC 15), 4=-20 (LC 15), 6=-6 (LC 14)
Max Grav 2=115 (LC 2), 4=115 (LC 2), 6=121 (LC 2)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 2, 4, 6, 2, 4.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	PB6	Piggyback	9	1	Job Reference (optional)



Scale = 1:33.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 16 lb	FT = 20%

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

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

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

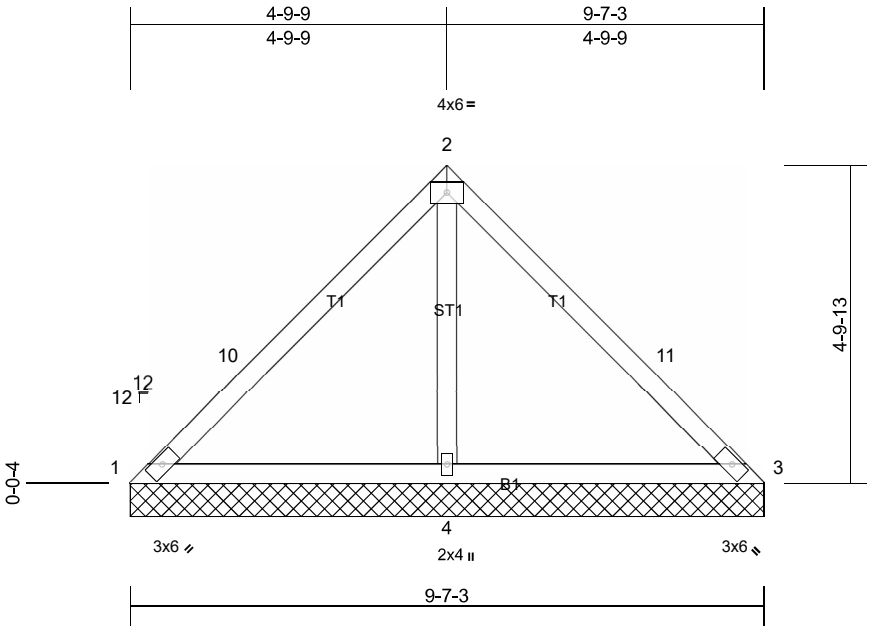
REACTIONS (lb/size) 2=137/3-10-10, (min. 0-1-8), 4=137/3-10-10, (min. 0-1-8)
Max Horiz 2=-46 (LC 12)
Max Uplift 2=-17 (LC 14), 4=-17 (LC 15)
Max Grav 2=176 (LC 2), 4=176 (LC 2)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 4-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 2, 4, 2, 4.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	V1	Valley	1	1	Job Reference (optional)



Scale = 1:34.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.26	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.21	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 39 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 9-7-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

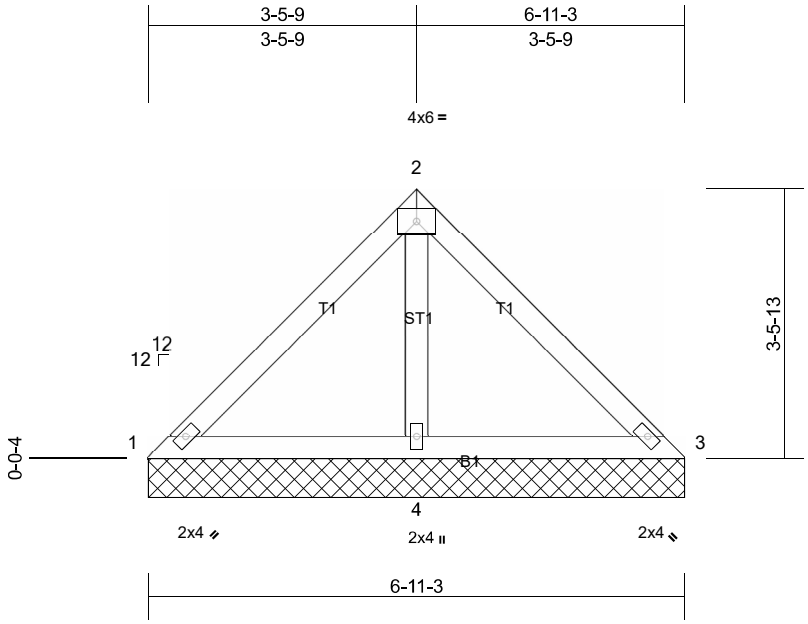
REACTIONS (lb/size) 1=-2/9-7-3, (min. 0-1-8), 3=2/9-7-3, (min. 0-1-8), 4=606/9-7-3, (min. 0-1-8)
Max Horiz 1=92 (LC 13)
Max Uplift 1=-99 (LC 32), 3=-2 (LC 15), 4=-65 (LC 15)
Max Grav 1=95 (LC 31), 3=3 (LC 26), 4=768 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-75/252, 2-10=-54/338, 2-11=-43/348
WEBS 2-4=-607/184

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 4-9-13, Exterior(2R) 4-9-13 to 7-9-13, Interior (1) 7-9-13 to 9-7-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
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 100 lb uplift at joint (s) 1, 3, 4, 3.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	V1A	Valley	1	1	Job Reference (optional)



Scale = 1:29.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 28 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-11-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

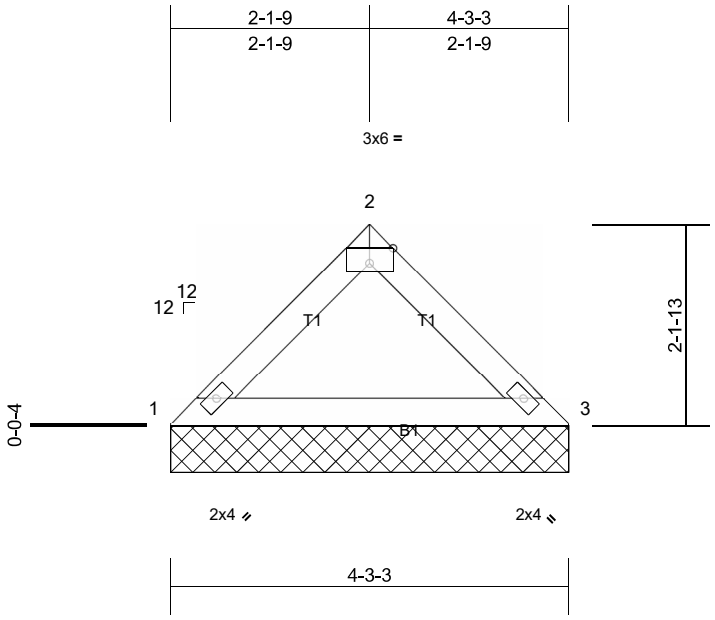
REACTIONS (lb/size) 1=33/6-11-3, (min. 0-1-8), 3=33/6-11-3, (min. 0-1-8), 4=371/6-11-3, (min. 0-1-8)
Max Horiz 1=-66 (LC 10)
Max Uplift 1=-3 (LC 32), 3=-3 (LC 31), 4=-93 (LC 14)
Max Grav 1=66 (LC 31), 3=66 (LC 32), 4=469 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-327/219

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 3-5-13, Exterior(2R) 3-5-13 to 6-3-3, Interior (1) 6-3-3 to 6-11-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
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 3 lb uplift at joint 1, 3 lb uplift at joint 3 and 93 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	V1B	Valley	1	1	Job Reference (optional)



Scale = 1:24.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 14 lb	FT = 20%

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

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

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

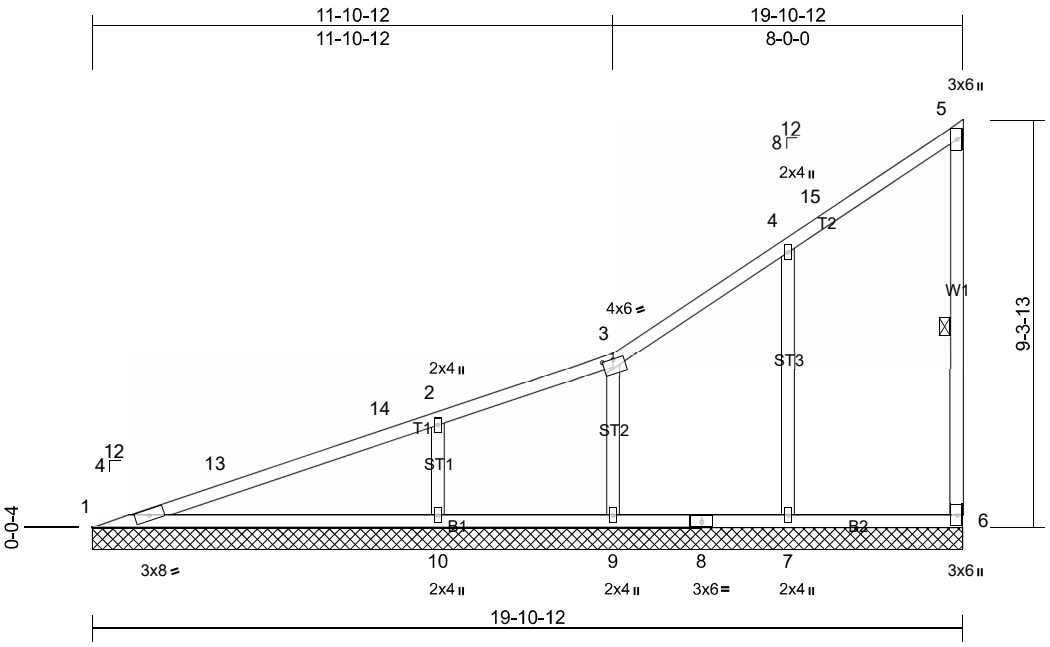
REACTIONS (lb/size) 1=135/4-3-3, (min. 0-1-8), 3=135/4-3-3, (min. 0-1-8)
Max Horiz 1=39 (LC 13)
Max Uplift 1=-15 (LC 14), 3=-15 (LC 15)
Max Grav 1=171 (LC 2), 3=171 (LC 2)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
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 15 lb uplift at joint 1 and 15 lb uplift at joint 3.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	VM1	Valley	1	1	Job Reference (optional)



Scale = 1:52.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.67	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.21	Horiz(TL)	0.02	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 92 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-6

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

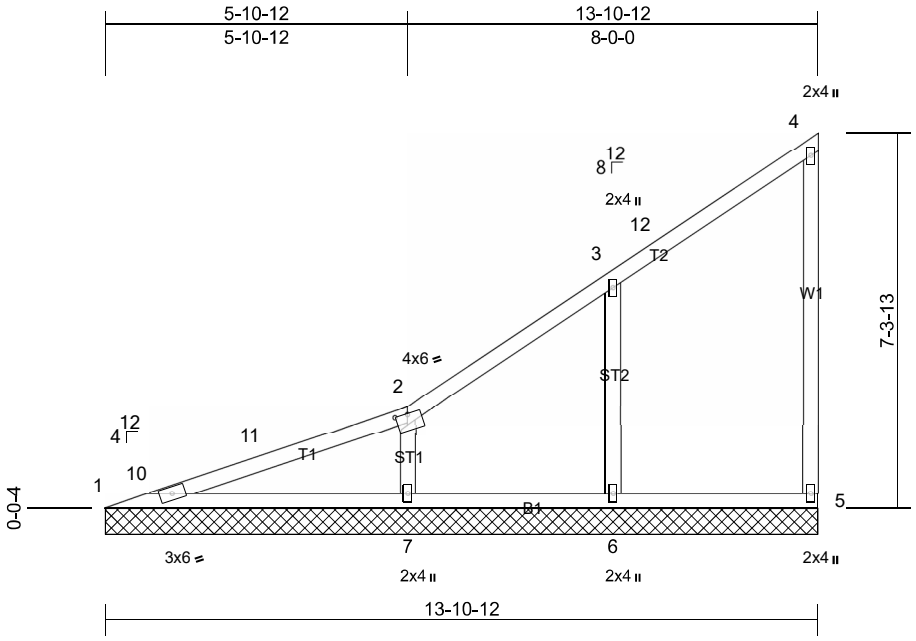
REACTIONS All bearings 19-10-12.
(lb) - Max Horiz 1=288 (LC 13)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 6, 9 except 7=-132 (LC 16), 10=-138 (LC 12)
Max Grav All reactions 250 (lb) or less at joint (s) 6, 9 except 1=270 (LC 32), 7=531 (LC 29), 10=681 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-681/206, 13-14=-339/210, 2-14=-328/225, 2-3=-285/174, 3-4=-274/200
BOT CHORD 1-10=-217/577
WEBS 4-7=-301/180, 2-10=-430/147

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 19-9-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Gable requires continuous bottom chord bearing.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 1, 6, 9 except (jt=lb) 7=131, 10=138.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	VM2	Valley	1	1	Job Reference (optional)



Scale = 1:44.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.47	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	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 61 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP 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.

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

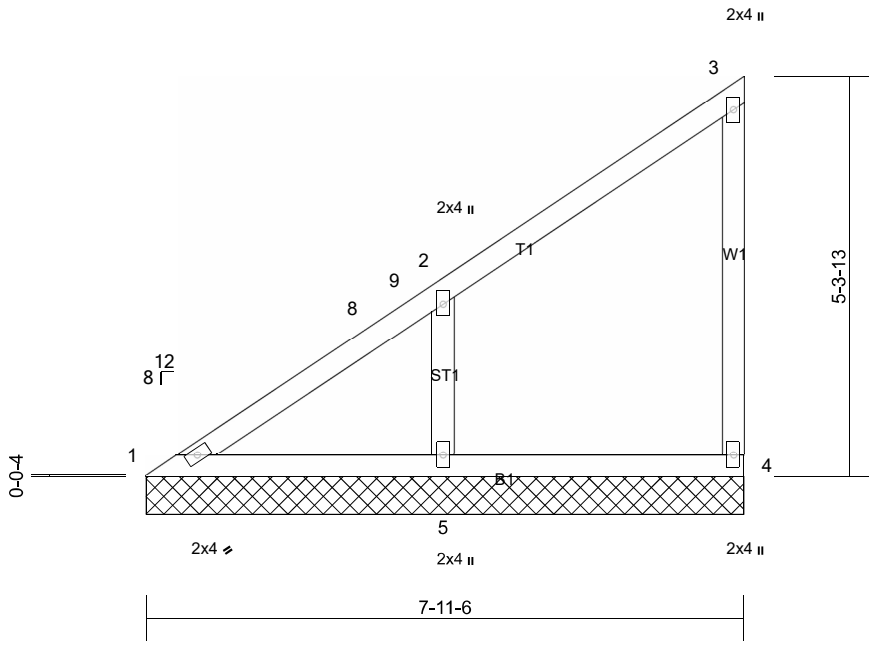
REACTIONS All bearings 13-10-12.
(lb) - Max Horiz 1=220 (LC 13)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 5, 7 except 6=-119 (LC 16)
Max Grav All reactions 250 (lb) or less at joint (s) 1, 5 except 6=436 (LC 29), 7=474 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-500/118, 1-10=-485/121, 1-11=-296/166, 2-11=-289/184, 2-3=-270/178
BOT CHORD 1-7=-192/437
WEBS 3-6=-278/187, 2-7=-279/105

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 13-9-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Gable requires continuous bottom chord bearing.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 5, 1, 7 except (jt=lb) 6=119.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	VM3	Valley	1	1	Job Reference (optional)



Scale = 1:30.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 35 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP 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.

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

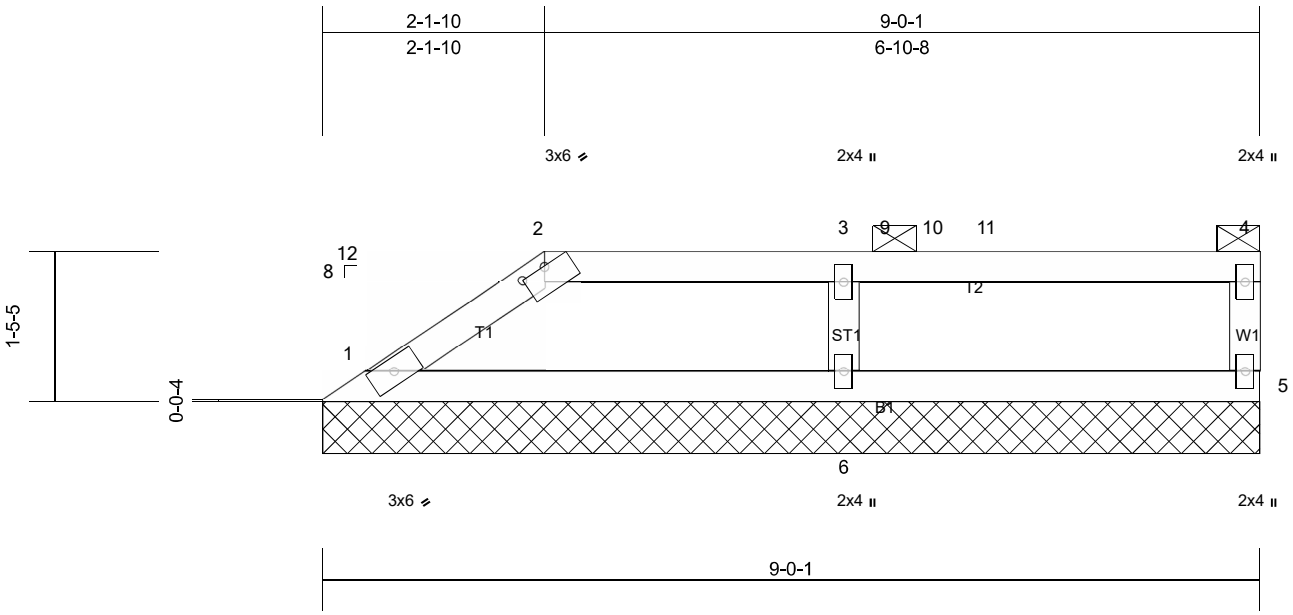
REACTIONS (lb/size) 1=94/7-11-6, (min. 0-1-8), 4=91/7-11-6, (min. 0-1-8), 5=307/7-11-6, (min. 0-1-8)
Max Horiz 1=152 (LC 11)
Max Uplift 1=-2 (LC 10), 4=-33 (LC 11), 5=-123 (LC 14)
Max Grav 1=138 (LC 26), 4=128 (LC 25), 5=397 (LC 25)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-283/179

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 7-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
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 2 lb uplift at joint 1, 33 lb uplift at joint 4 and 123 lb uplift at joint 5.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	VM4	Valley	1	1	Job Reference (optional)



Scale = 1:22.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 29 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

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

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

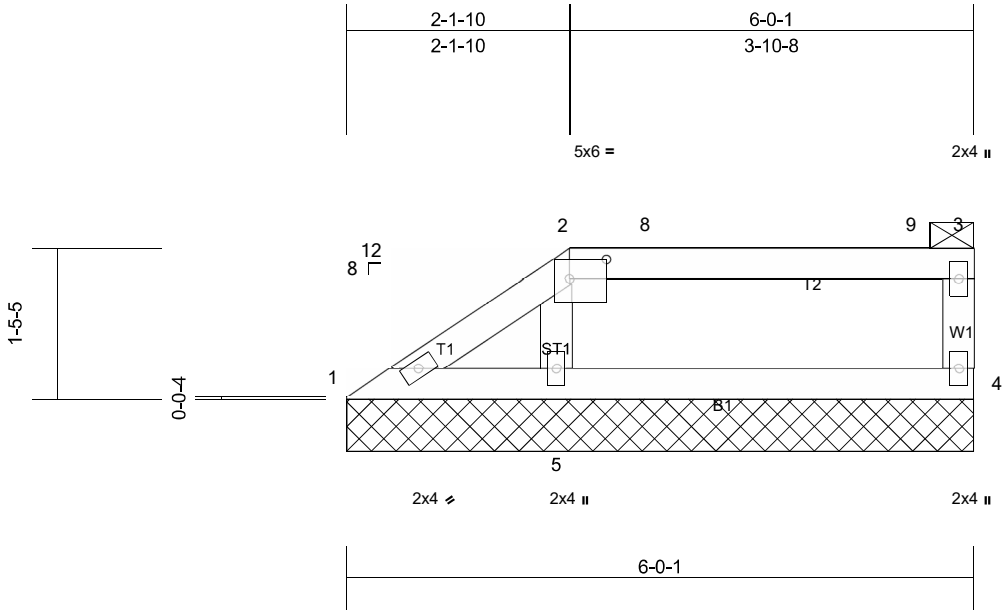
REACTIONS (lb/size) 1=139/9-0-1, (min. 0-1-8), 5=124/9-0-1, (min. 0-1-8), 6=335/9-0-1, (min. 0-1-8)
Max Horiz 1=35 (LC 13)
Max Uplift 1=-16 (LC 16), 5=-24 (LC 13), 6=-60 (LC 13)
Max Grav 1=171 (LC 37), 5=172 (LC 36), 6=447 (LC 36)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-344/104

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-5-12 to 2-2-0, Exterior(2R) 2-2-0 to 6-4-14, Interior (1) 6-4-14 to 8-10-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
5) Unbalanced snow loads have been considered for this design.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain load requirements specific to the use of this truss component.
7) Provide adequate drainage to prevent water ponding.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 4-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * 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.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 5, 16 lb uplift at joint 1 and 60 lb uplift at joint 6.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	VM5	Valley	1	1	Job Reference (optional)



Scale = 1:22.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 20 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

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

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

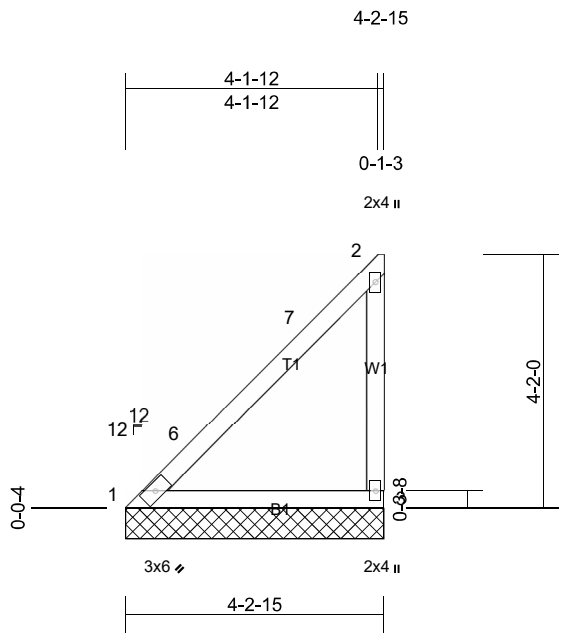
REACTIONS (lb/size) 1=40/6-0-1, (min. 0-1-8), 4=129/6-0-1, (min. 0-1-8), 5=238/6-0-1, (min. 0-1-8)
Max Horiz 1=38 (LC 13)
Max Uplift 1=-9 (LC 16), 4=-27 (LC 12), 5=-34 (LC 13)
Max Grav 1=79 (LC 37), 4=181 (LC 36), 5=273 (LC 36)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-6 to 2-2-0, Corner(3R) 2-2-0 to 5-2-0, Exterior(2N) 5-2-0 to 5-10-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
5) Unbalanced snow loads have been considered for this design.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain load requirements specific to the use of this truss component.
7) Provide adequate drainage to prevent water ponding.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 4-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * 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.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 4, 9 lb uplift at joint 1 and 34 lb uplift at joint 5.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	VM6	Valley	1	1	Job Reference (optional)



Scale = 1:37.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.24	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 20 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-2-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

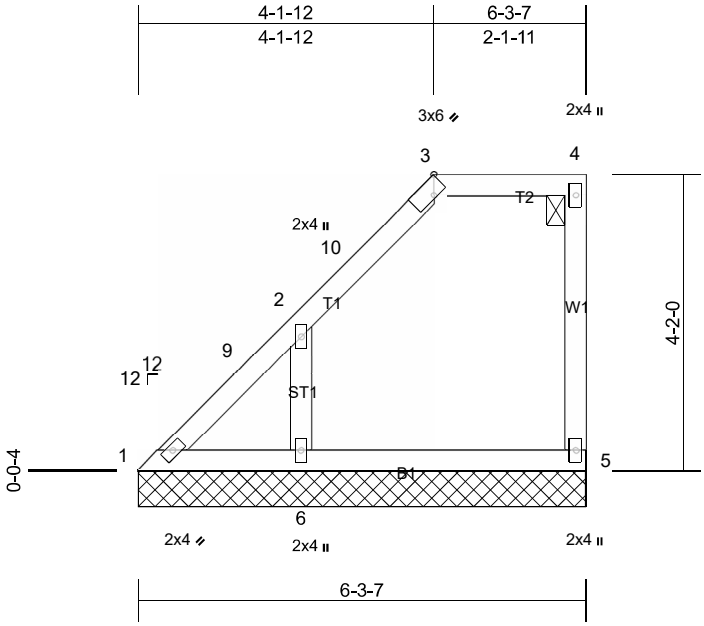
REACTIONS (lb/size) 1=129/4-2-15, (min. 0-1-8), 3=129/4-2-15, (min. 0-1-8)
Max Horiz 1=118 (LC 11)
Max Uplift 3=-57 (LC 14)
Max Grav 1=173 (LC 26), 3=187 (LC 25)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 4-1-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) Gable requires continuous bottom chord bearing.
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 57 lb uplift at joint 3.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	VM7	Valley	1	1	Job Reference (optional)



Scale = 1:32.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 29 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

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

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

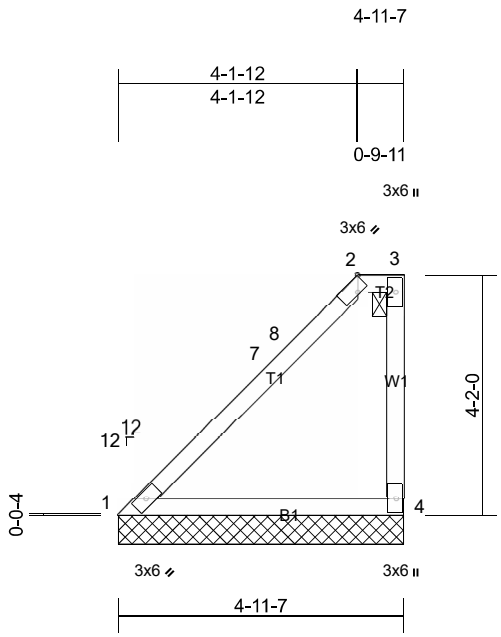
REACTIONS (lb/size) 1=-11/6-3-7, (min. 0-1-8), 5=87/6-3-7, (min. 0-1-8), 6=331/6-3-7, (min. 0-1-8)
Max Horiz 1=121 (LC 13)
Max Uplift 1=-64 (LC 40), 5=-13 (LC 13), 6=-132 (LC 13)
Max Grav 1=120 (LC 15), 5=125 (LC 36), 6=458 (LC 37)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-448/272, 2-9=-435/282
WEBS 2-6=-430/582

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 4-2-0, Exterior(2E) 4-2-0 to 6-1-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain load requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) Gable requires continuous bottom chord bearing.
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 13 lb uplift at joint 5, 64 lb uplift at joint 1 and 132 lb uplift at joint 6.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	VM8	Valley	1	1	Job Reference (optional)



Scale = 1:40

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.37	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 22 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-11-7 oc purlins, except end verticals, and 6-0-0 oc max: 2-3.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

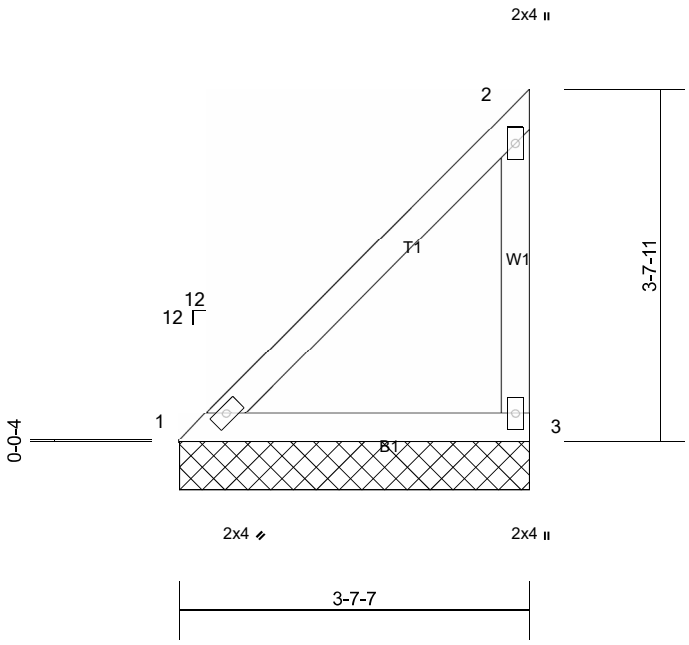
REACTIONS (lb/size) 1=152/4-11-7, (min. 0-1-8), 4=158/4-11-7, (min. 0-1-8)
Max Horiz 1=121 (LC 13)
Max Uplift 1=-4 (LC 16), 4=-59 (LC 13)
Max Grav 1=260 (LC 37), 4=224 (LC 37)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-7=-280/46

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 4-2-0, Exterior(2E) 4-2-0 to 4-9-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) Gable requires continuous bottom chord bearing.
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 59 lb uplift at joint 4 and 4 lb uplift at joint 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	VM9	Valley	1	1	Job Reference (optional)



Scale = 1:23.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 17 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-7-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

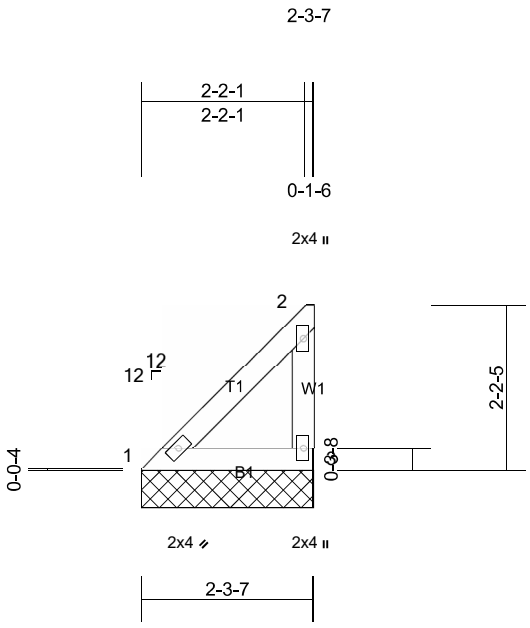
REACTIONS (lb/size) 1=110/3-7-7, (min. 0-1-8), 3=110/3-7-7, (min. 0-1-8)
Max Horiz 1=98 (LC 11)
Max Uplift 3=-48 (LC 14)
Max Grav 1=146 (LC 26), 3=158 (LC 25)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 3-5-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
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 48 lb uplift at joint 3.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42286	VM10	Valley	1	1	Job Reference (optional)



Scale = 1:30.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 10 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-3-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

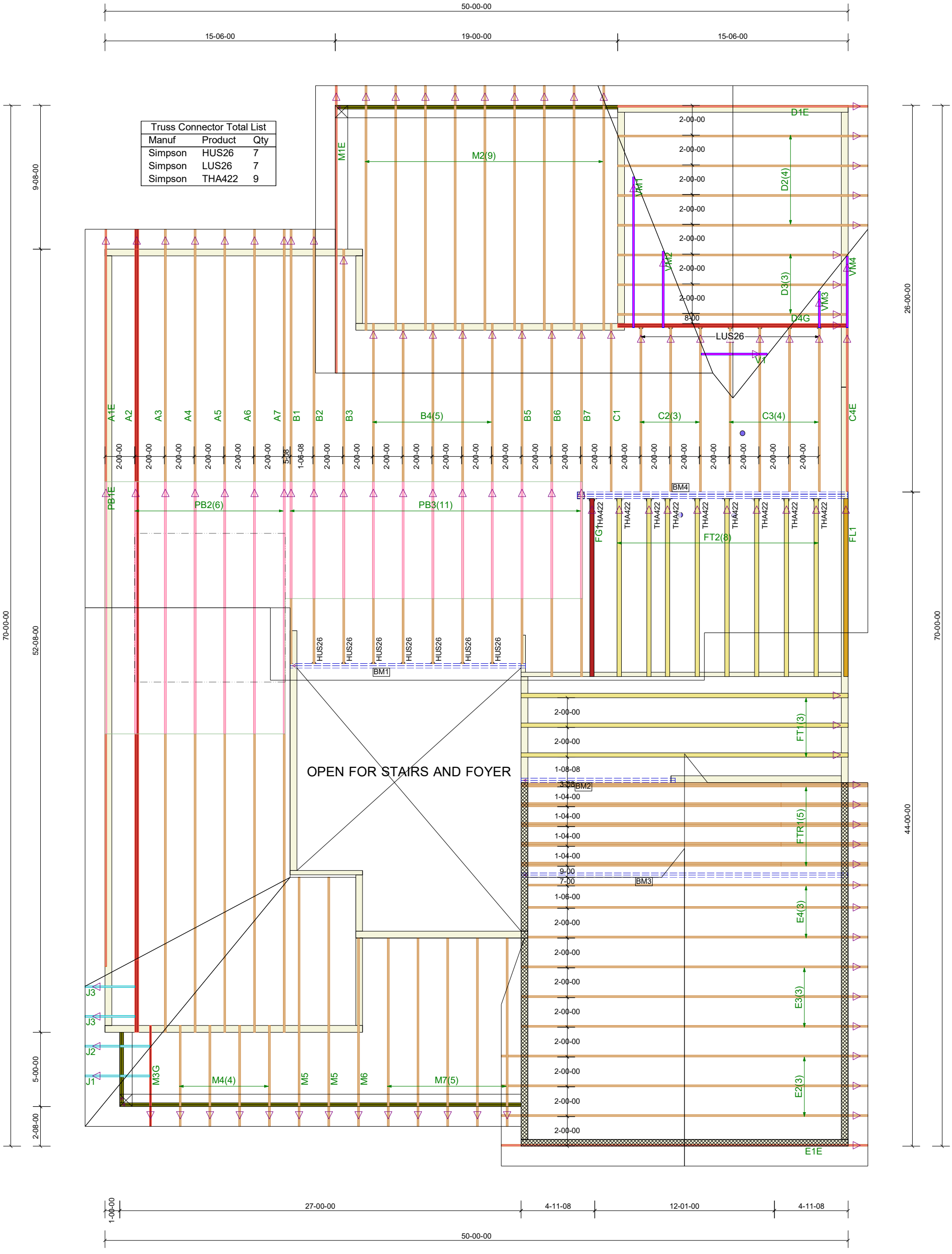
REACTIONS (lb/size) 1=68/2-3-7, (min. 0-1-8), 3=68/2-3-7, (min. 0-1-8)
Max Horiz 1=58 (LC 11)
Max Uplift 3=-29 (LC 14)
Max Grav 1=88 (LC 26), 3=96 (LC 25)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) Gable requires continuous bottom chord bearing.
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 29 lb uplift at joint 3.

LOAD CASE(S) Standard

Truss Connector Total List		
Manuf	Product	Qty
Simpson	HUS26	7
Simpson	LUS26	7
Simpson	THA422	9



Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
BM3	22-00-00	1-3/4" x 16" VERSA-LAM® LVL 2.1E 3100 SP	2	2	FF
BM4	20-00-00	1-3/4" x 16" VERSA-LAM® LVL 2.1E 3100 SP	3	3	FF
BM1	16-00-00	1-3/4" x 16" VERSA-LAM® LVL 2.1E 3100 SP	2	2	FF
BM2	12-00-00	1-3/4" x 16" VERSA-LAM® LVL 2.1E 3100 SP	2	2	FF

Roof Truss Placement Plan

NOT TO SCALE

DESIGNED DATE

9/16/2026

Sheet # 1 of 1

TRUSS INSTALLATION REQUIRES TEMPORARY AND PERMANENT BRACING. GENERAL GUIDANCE IS PROVIDED IN SBCA DOC's B-1 and B-3. THESE ARE INCLUDED WITH EACH JOB IN YOUR TRUSS PACKET.

DO NOT CUT, NOTCH, OR BORE HOLES UNLESS SPECIFIC, WRITTEN PERMISSION IS PROVIDED BY AN AUTHORIZED REPRESENTATIVE OF 84 LUMBER.

Designer: JPS

Location: 2383-Dunn

Park Square Homes

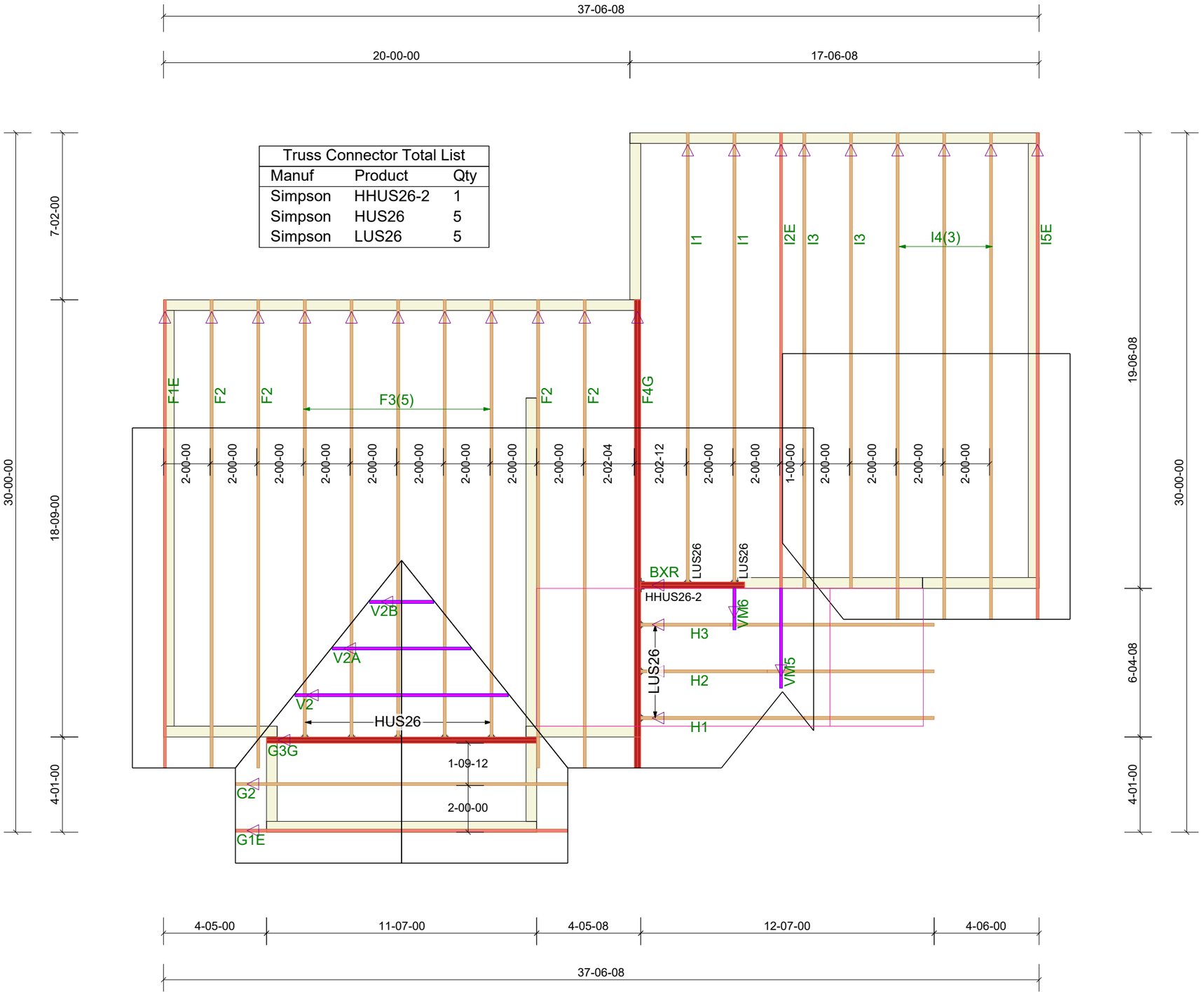
Plan 1 - Carolina Acre

Elev A - Farmhouse

Job# - 2606610-42288

84 LUMBER

84 Components
200 Emmett Rd
Dunn NC 28334
United States
Office: (910) 892-8400



84 LUMBER

84 Components
200 Emmett Rd
Dunn NC 28334
United States
Office: (910) 892-8400

Park Square Homes

Plan 1 - Carolina Acre

Elev A - Farmhouse

Job# - 2606610-42288

Location	2383-Dunn
Designer	JPS

DO NOT CUT, NOTCH, OR BORE HOLES UNLESS SPECIFIC, WRITTEN PERMISSION IS PROVIDED BY AN AUTHORIZED REPRESENTATIVE OF 84 LUMBER.

TRUSS INSTALLATION REQUIRES TEMPORARY AND PERMANENT BRACING. GENERAL GUIDANCE IS PROVIDED IN SBCA DOC's B-1 and B-3. THESE ARE INCLUDED WITH EACH JOB IN YOUR TRUSS PACKET.

Sheet # 1 of 1

Roof Truss Placement Plan

NOT TO SCALE

DESIGNED DATE

9/16/2026

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	A1E	Piggyback Base Supported Gable	1	1	Job Reference (optional)

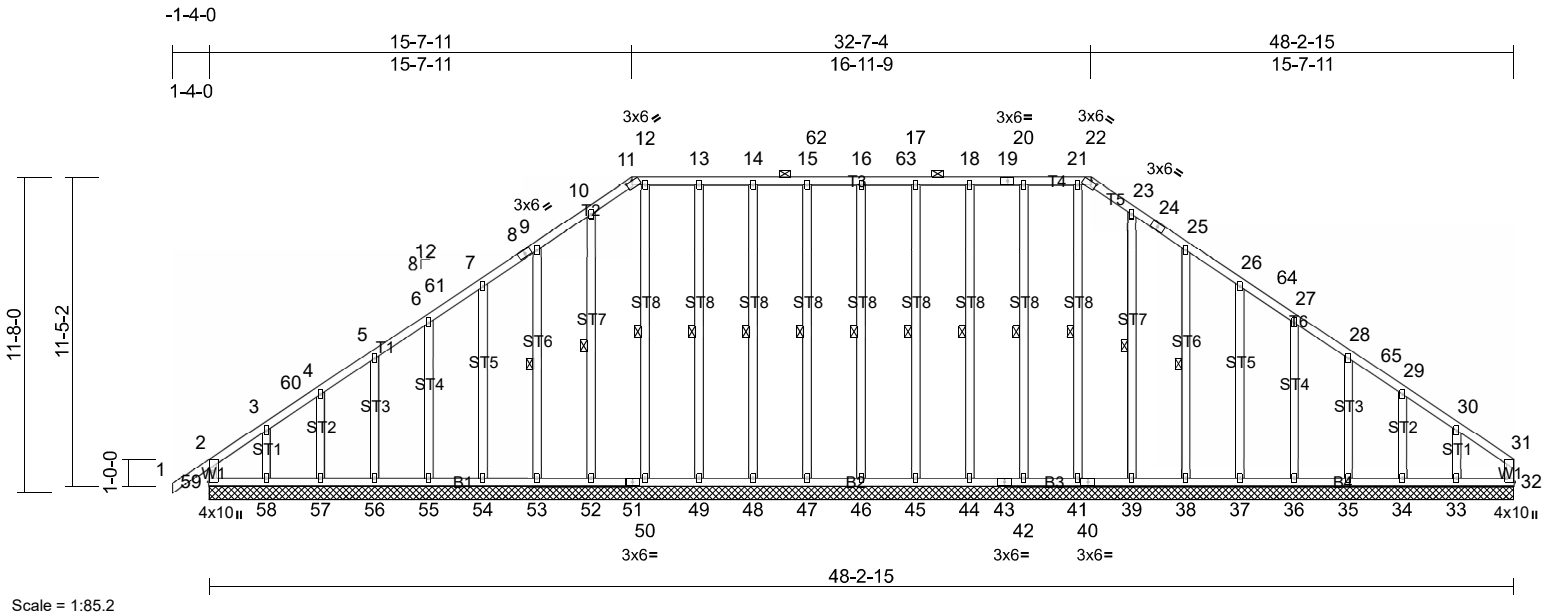


Plate Offsets (X, Y): [11:0-3-0,0-0-2], [22:0-3-0,0-0-2], [32:Edge,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	32	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 425 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 0-0-0 oc purlins (6-0-0 max.): 11-22.

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

WEBS 1 Row at midpt 16-46, 15-47, 14-48, 13-49, 12-50, 10-52, 9-53, 17-45, 18-44, 20-42, 21-41, 23-39, 25-38

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

REACTIONS All bearings 48-2-15.

(lb) - Max Horiz 59=243 (LC 13)
Max Uplift All uplift 100 (lb) or less at joint(s) 32, 34, 35, 36, 37, 38, 39, 42, 44, 45, 46, 47, 48, 49, 50, 52, 53, 54, 55, 56, 57 except 33=-128 (LC 15), 58=-140 (LC 14), 59=-108 (LC 10)
Max Grav All reactions 250 (lb) or less at joint (s) 32, 33, 34, 35, 36, 37, 38, 39, 41, 42, 44, 45, 46, 47, 48, 49, 50, 52, 53, 54, 55, 56, 57, 58 except 59=256 (LC 27)

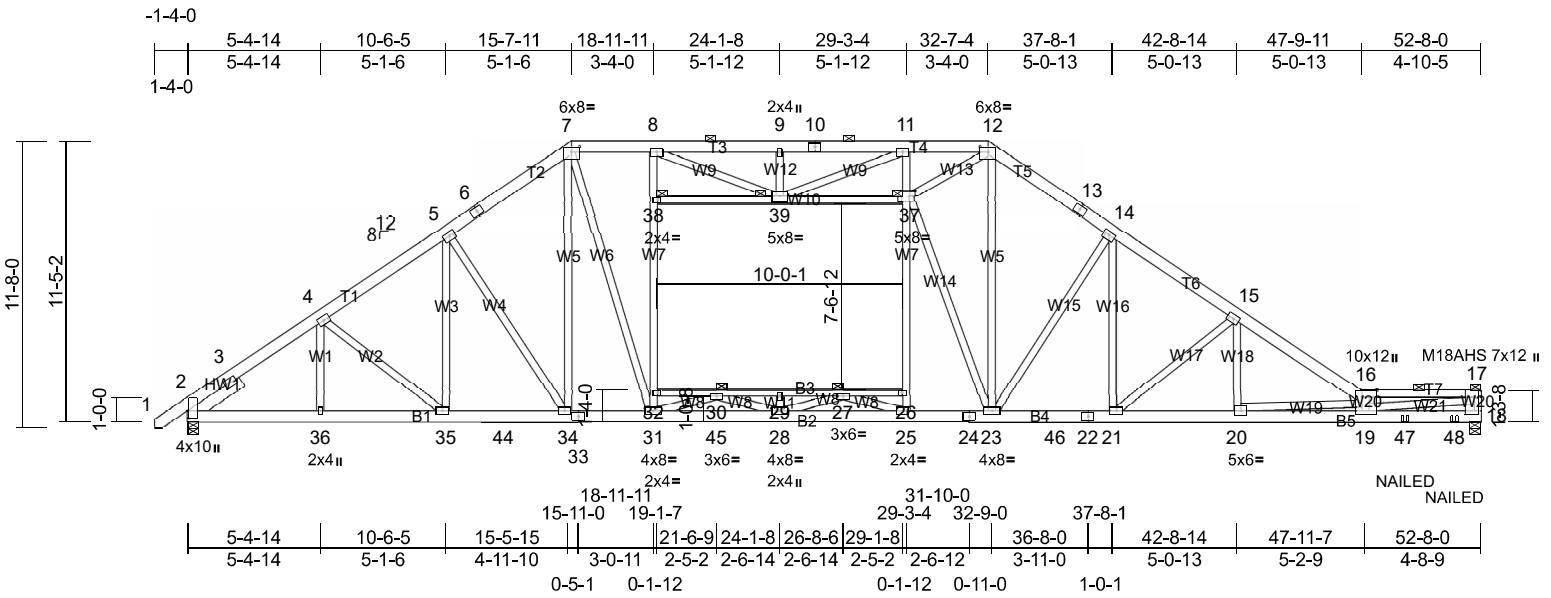
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 3-5-14, Interior (1) 3-5-14 to 15-7-11, Exterior(2R) 15-7-11 to 22-5-9, Interior (1) 22-5-9 to 32-7-4, Exterior(2R) 32-7-4 to 39-5-2, Interior (1) 39-5-2 to 48-1-3 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) Provide adequate drainage to prevent water ponding.
8) All plates are 2x4 (||) MT20 unless otherwise indicated.
9) Gable requires continuous bottom chord bearing.
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * 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.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 32, 46, 47, 48, 49, 50, 52, 53, 54, 55, 56, 57, 45, 44, 42, 39, 38, 37, 36, 35, 34 except (jt=lb) 59=108, 58=139, 33=127.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	A2	Attic Girder	1	2	Job Reference (optional)



Scale = 1:93.9

Plate Offsets (X, Y): [2:0-3-12,0-0-9], [7:0-4-0,0-2-12], [12:0-4-0,0-2-12], [16:0-3-8,Edge], [17:0-3-8,Edge], [37:0-2-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.34	19-20	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.66	19-20	>952	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.10	18	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS		Attic	-0.06	26-32	>999	360		
BCDL	10.0										Weight: 1039 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* T7:2x4 SP No.1
BOT CHORD 2x6 SP No.2 *Except* B3:2x4 SP No.2, B5:2x6 SP DSS
WEBS 2x4 SP No.2 *Except* W21:2x4 SP No.1
SLIDER Left 2x6 SP No.2 -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-10-0 oc purlins, except end verticals, and 0-0-0 oc purlins (3-0-12 max.): 7-12, 16-17.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 29-30,27-29,26-27.
JOINTS 1 Brace at Jt(s): 17, 37, 38, 39, 30, 27

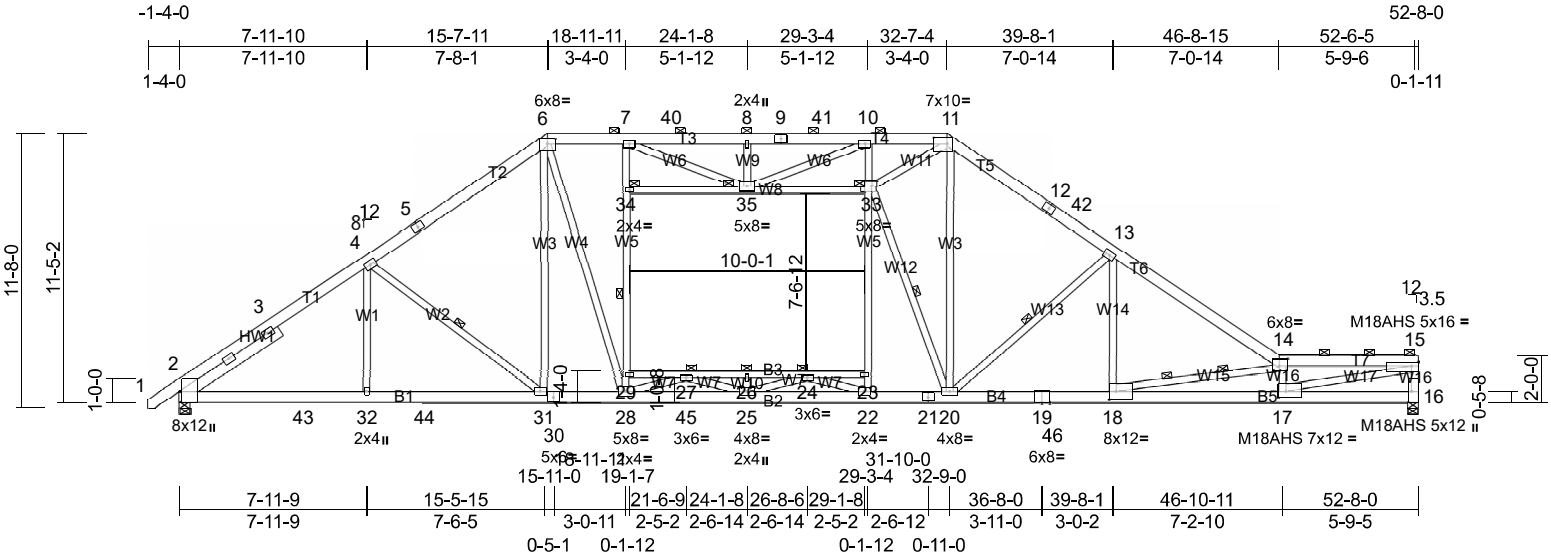
REACTIONS (lb/size) 2=2118/0-5-8, (min. 0-1-11), 18=2098/0-5-8, (min. 0-1-10)
Max Horiz 2=236 (LC 9)
Max Uplift 18=-83 (LC 11)
Max Grav 2=2848 (LC 3), 18=2751 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1889/0, 3-4=-3909/0, 4-5=-3905/0, 5-6=-3679/0, 6-7=-3601/0, 7-8=-3397/0, 8-9=-4211/0, 9-10=-4211/0, 10-11=-4211/0, 11-12=-4468/84, 12-13=-4098/0, 13-14=-4157/0, 14-15=-4976/0, 15-16=-6571/0, 16-17=-10266/110, 17-18=-2108/60
BOT CHORD 2-36=-25/3118, 35-36=-25/3118, 35-44=0/3243, 34-44=0/3243, 33-34=0/2973, 31-33=0/2973, 31-45=0/4085, 28-45=0/4085, 25-28=0/4168, 24-25=0/3407, 23-24=0/3407, 23-46=0/4073, 22-46=0/4073, 21-22=0/4073, 20-21=0/5527, 19-20=-126/10686, 19-47=-43/948, 47-48=-43/948, 18-48=-43/948, 29-30=-1306/0, 27-29=-1306/0
WEBS 4-35=-43/258, 5-34=-569/197, 7-34=-150/544, 7-31=-3/1544, 31-32=-901/86, 32-38=-854/180, 8-38=-751/191, 25-26=0/589, 26-37=0/782, 11-37=-391/224, 23-37=-555/264, 12-23=-43/1401, 14-23=-1308/206, 14-21=-66/1249, 15-21=-1883/161, 15-20=-9/1659, 16-20=-5242/187, 16-19=-2676/44, 17-19=-78/9504, 37-39=-246/1255, 8-39=-209/1066, 9-39=-286/104, 11-39=-425/319, 30-31=-1038/0, 28-30=0/483, 28-29=-255/0, 27-28=0/397, 25-27=-1036/0, 12-37=-164/1465

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
7) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
8) Provide adequate drainage to prevent water ponding.
9) All plates are MT20 plates unless otherwise indicated.
10) All plates are 4x6 (=) MT20 unless otherwise indicated.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * 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.
13) Ceiling dead load (5.0 psf) on member(s). 38-39, 37-39; Wall dead load (5.0psf) on member(s).32-38, 26-37
14) Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 30-32, 29-30, 27-29, 26-27
15) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 18.
16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
17) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
18) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-7=-43, 7-12=-53, 12-16=-43, 16-17=-53, 18-40=-20, 26-32=-30, 38-39=-10, 37-39=-10
Drag: 32-38=-10, 26-37=-10
Concentrated Loads (lb)
Vert: 47=-33, 48=-34

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	A3	Attic	1	1	Job Reference (optional)



Scale = 1:98

Plate Offsets (X, Y): [2:0-5-8,Edge], [6:0-4-0,0-2-12], [11:0-6-12,0-3-4], [14:0-4-8,0-3-8], [15:Edge,0-2-0], [16:0-5-8,Edge], [17:0-3-12,0-3-0], [18:0-3-8,0-4-0], [33:0-2-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.47	17-18	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.92	17-18	>680	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.17	16	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS		Attic	-0.09	23-29	>999	360		
BCDL	10.0										Weight: 503 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* T7:2x6 SP DSS
BOT CHORD 2x6 SP DSS *Except* B3:2x4 SP No.2, B4:2x6 SP No.2
WEBS 2x4 SP No.2 *Except* W17:2x4 SP DSS
SLIDER Left 2x6 SP No.2 -- 5-0-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 0-0-0 oc purlins (2-8-6 max.): 6-11, 14-15.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
5-0-2 oc bracing: 26-27
5-0-4 oc bracing: 24-26
6-0-0 oc bracing: 23-24.
WEBS 1 Row at midpt 4-31, 29-34, 20-33, 13-20
WEBS 2 Rows at 1/3 pts 14-18
JOINTS 1 Brace at Jt(s): 15, 33, 34, 27, 24, 35

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

REACTIONS (lb/size) 2=2116/0-5-8, (min. 0-3-6), 16=2042/0-5-8, (min. 0-3-3)
Max Horiz 2=242 (LC 13)
Max Uplift 16=-39 (LC 15)
Max Grav 2=2884 (LC 3), 16=2704 (LC 3)

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

TOP CHORD 2-3=-1478/46, 3-4=-4061/36, 4-5=-3701/10, 5-6=-3633/56, 6-7=-3403/50, 7-40=-4206/83, 8-40=-4206/83, 8-9=-4206/83, 9-41=-4206/83, 10-41=-4206/83, 10-11=-4429/65, 11-12=-4088/63, 12-42=-4120/33, 13-42=-4195/20, 13-14=-5505/47, 14-15=-8439/85, 15-16=-2447/51

BOT CHORD 2-43=-23/3288, 32-43=-23/3288, 32-44=-23/3288, 31-44=-23/3288, 30-31=0/3006, 28-30=0/3006, 28-45=0/4108, 25-45=0/4108, 22-25=0/4192, 21-22=0/3413, 20-21=0/3413, 19-20=0/4566, 19-46=0/4566, 18-46=0/4566, 17-18=-94/8655, 16-17=-22/315, 26-27=-1279/0, 24-26=-1279/0

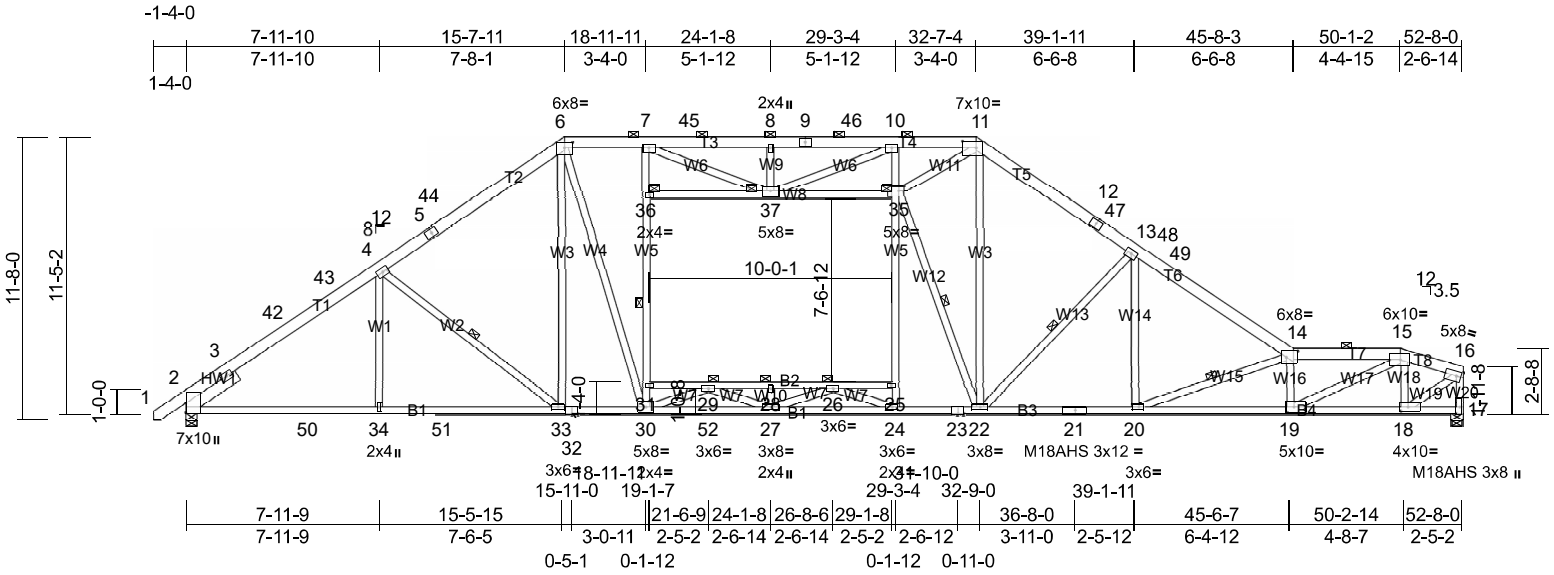
WEBS 4-32=0/288, 4-31=-468/241, 6-31=-110/481, 6-28=-16/1472, 28-29=-868/91, 29-34=-826/184, 7-34=-723/196, 22-23=0/596, 23-33=0/783, 10-33=-397/221, 20-33=-571/248, 11-20=-38/1416, 13-20=-1633/221, 13-18=0/1332, 14-18=-4186/143, 14-17=-2297/64, 33-35=-231/1213, 27-28=-1036/0, 25-27=0/443, 24-25=0/357, 22-24=-1034/0, 7-35=-201/1053, 8-35=-290/104, 10-35=-392/326, 11-33=-149/1425, 15-17=-68/8423

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-2-3 to 4-1-0, Interior (1) 4-1-0 to 15-7-11, Exterior(2R) 15-7-11 to 20-10-14, Interior (1) 20-10-14 to 32-7-4, Exterior(2R) 32-7-4 to 37-10-7, Interior (1) 37-10-7 to 52-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) All plates are 4x6 (=) MT20 unless otherwise indicated.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
11) Ceiling dead load (5.0 psf) on member(s). 34-35, 33-35; Wall dead load (5.0psf) on member(s).29-34, 23-33
12) Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 27-29, 26-27, 24-26, 23-24
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 16.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
15) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	A4	Attic	1	1	Job Reference (optional)



Scale = 1:95.1

Plate Offsets (X, Y): [2:0-4-14,0-0-1], [6:0-4-0,0-2-12], [11:0-6-12,0-3-4], [14:0-5-12,0-3-0], [18:0-3-8,0-2-0], [19:0-3-8,0-2-8], [35:0-2-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.40	20-22	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.78	24-27	>809	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.25	17	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS		Attic	-0.09	25-31	>999	360		
BCDL	10.0										Weight: 462 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* T1:2x6 SP DSS
BOT CHORD 2x4 SP DSS *Except* B2:2x4 SP No.2, B3:2x4 SP No.1
WEBS 2x4 SP No.2 *Except* W17:2x4 SP No.1
SLIDER Left 2x6 SP No.2 -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-6-11 oc purlins, except end verticals, and 0-0-0 oc purlins (2-4-14 max.): 6-11, 14-15.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
9-9-6 oc bracing: 19-20
4-7-11 oc bracing: 28-29
4-7-15 oc bracing: 26-28
6-0-0 oc bracing: 25-26.
WEBS 1 Row at midpt 4-33, 31-36, 22-35, 13-22, 14-20
JOINTS 1 Brace at Jt(s): 35, 36, 29, 28, 26, 37

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

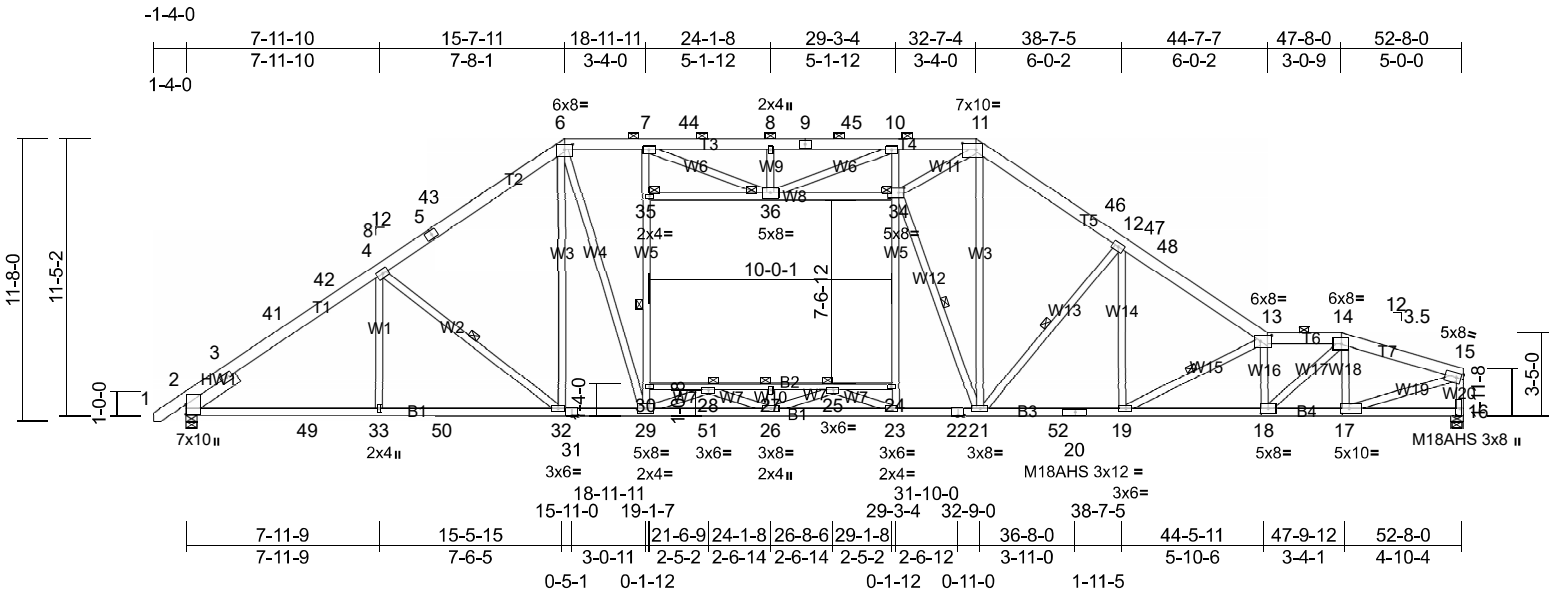
REACTIONS (lb/size) 2=2112/0-5-8, (min. 0-3-6), 17=2037/0-5-8, (min. 0-3-3)
Max Horiz 2=-220 (LC 14)
Max Uplift 17=-39 (LC 17)
Max Grav 2=2884 (LC 3), 17=2716 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1482/81, 3-42=-4200/227, 42-43=-4134/230, 4-43=-4047/256, 4-5=-3721/221, 5-44=-3672/233, 6-44=-3658/268, 6-7=-3401/253, 7-45=-4225/338, 8-45=-4225/338, 8-9=-4225/338, 9-46=-4225/338, 10-46=-4225/338, 10-11=-4474/295, 11-12=-4085/304, 12-47=-4138/268, 13-47=-4182/264, 13-48=-5148/338, 48-49=-5154/332, 14-49=-5292/313, 14-15=-7185/498, 15-16=-2795/214, 16-17=-2693/223
BOT CHORD 2-50=-202/3357, 34-50=-202/3357, 34-51=-202/3357, 33-51=-202/3357, 32-33=-31/3026, 30-32=-31/3026, 30-52=0/4151, 27-52=0/4151, 24-27=0/4225, 23-24=-10/3409, 22-23=-10/3409, 21-22=-218/4382, 20-21=-218/4382, 19-20=-496/7053, 18-19=-234/2773, 28-29=-1459/0, 26-28=-1459/0
WEBS 4-34=0/356, 4-33=-587/245, 6-33=-114/581, 6-30=-19/1419, 30-31=-916/96, 31-36=-867/190, 7-36=-764/202, 24-25=0/595, 25-35=0/789, 10-35=-413/250, 22-35=-579/307, 11-22=-64/1413, 13-22=-1545/266, 13-20=-60/1247, 14-20=-2837/296, 14-19=-2119/178, 15-19=-307/4956, 15-18=-1698/166, 35-37=-254/1259, 16-18=-249/3208, 29-30=-1103/0, 27-29=0/591, 27-28=-256/0, 26-27=0/515, 24-26=-1104/0, 7-37=-212/1084, 8-37=-387/104, 10-37=-555/340, 11-35=-174/1483

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-2-3 to 4-1-0, Interior (1) 4-1-0 to 15-7-11, Exterior(2R) 15-7-11 to 20-10-14, Interior (1) 20-10-14 to 32-7-4, Exterior(2R) 32-7-4 to 37-10-7, Interior (1) 37-10-7 to 50-1-2, Exterior(2E) 50-1-2 to 52-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) All plates are 4x6 (=) MT20 unless otherwise indicated.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * 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.
12) Ceiling dead load (5.0 psf) on member(s). 36-37, 35-37; Wall dead load (5.0psf) on member(s).31-36, 25-35
13) Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 29-31, 28-29, 26-28, 25-26
14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 17.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	A5	Attic	1	1	Job Reference (optional)



Scale = 1:95.1

Plate Offsets (X, Y): [2:0-4-14,0-0-1], [6:0-4-0,0-2-12], [11:0-6-12,0-3-4], [13:0-5-8,0-3-0], [17:0-3-8,0-2-8], [18:0-3-8,0-2-8], [34:0-2-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.37	23-26	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.72	23-26	>871	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.23	16	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS		Attic	-0.09	24-30	>999	360		
BCDL	10.0										Weight: 466 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* T1:2x6 SP DSS
BOT CHORD 2x4 SP DSS *Except* B2:2x4 SP No.2, B3:2x4 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-6-11 oc purlins, except end verticals, and 0-0-0 oc purlins (2-9-4 max.): 6-11, 13-14.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
4-7-12 oc bracing: 27-28
4-7-15 oc bracing: 25-27
6-0-0 oc bracing: 24-25.
WEBS 1 Row at midpt 4-32, 30-35, 21-34, 12-21, 13-19
JOINTS 1 Brace at Jt(s): 34, 35, 28, 27, 25, 36

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

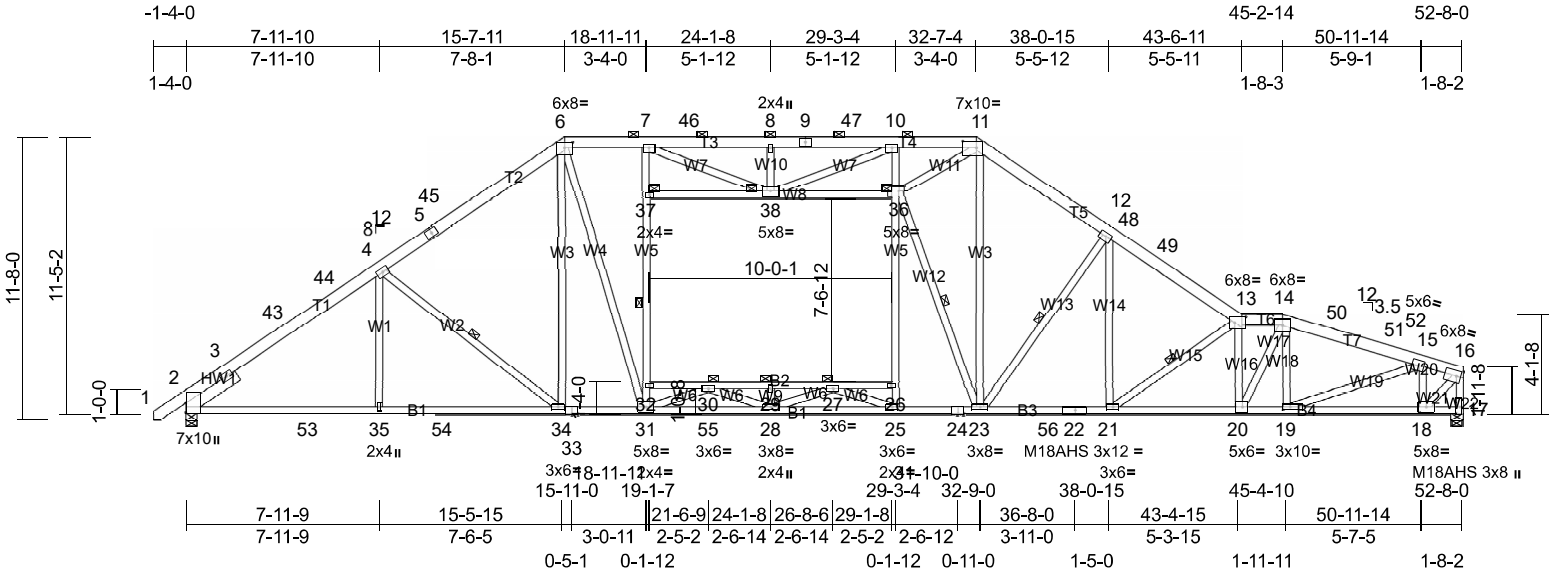
REACTIONS (lb/size) 2=2112/0-5-8, (min. 0-3-6), 16=2023/0-5-8, (min. 0-3-3)
Max Horiz 2=-222 (LC 14)
Max Uplift 16=-39 (LC 17)
Max Grav 2=2885 (LC 3), 16=2717 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1483/81, 3-41=-4202/229, 41-42=-4136/232, 4-42=-4048/257, 4-5=-3723/222, 5-43=-3673/234, 6-43=-3660/269, 6-7=-3403/254, 7-44=-4226/340, 8-44=-4226/340, 8-9=-4226/340, 9-45=-4226/340, 10-45=-4226/340, 10-11=-4482/299, 11-46=-4084/310, 12-46=-4174/274, 12-47=-5020/337, 47-48=-5042/332, 13-48=-5152/314, 13-14=-6258/442, 14-15=-4169/312, 15-16=-2624/231
BOT CHORD 2-49=-201/3359, 33-49=-201/3359, 33-50=-201/3359, 32-50=-201/3359, 31-32=-29/3027, 29-31=-29/3027, 29-51=0/4152, 26-51=0/4152, 23-26=0/4226, 22-23=-8/3411, 21-22=-8/3411, 21-52=-200/4265, 20-52=-200/4265, 19-20=-200/4265, 18-19=-421/6162, 17-18=-307/4020, 27-28=-1457/0, 25-27=-1457/0
WEBS 4-33=0/356, 4-32=-587/245, 6-32=-114/581, 6-29=-20/1419, 29-30=-915/97, 30-35=-866/191, 7-35=-763/202, 23-24=0/598, 24-34=0/792, 10-34=-416/240, 21-34=-581/308, 11-21=-72/1412, 12-21=-1456/262, 12-19=-74/1226, 13-19=-2126/248, 13-18=-2007/143, 14-18=-166/3092, 14-17=-1184/120, 34-36=-256/1265, 15-17=-290/4076, 28-29=-1102/0, 26-28=0/591, 26-27=-256/0, 25-26=0/514, 23-25=-1103/0, 7-36=-214/1084, 8-36=-387/104, 10-36=-546/339, 11-34=-176/1490

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-2-3 to 4-1-0, Interior (1) 4-1-0 to 15-7-11, Exterior(2R) 15-7-11 to 20-10-14, Interior (1) 20-10-14 to 32-7-4, Exterior(2R) 32-7-4 to 37-10-7, Interior (1) 37-10-7 to 47-8-0, Exterior(2E) 47-8-0 to 52-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) All plates are 4x6 (=) MT20 unless otherwise indicated.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * 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.
12) Ceiling dead load (5.0 psf) on member(s). 35-36, 34-36; Wall dead load (5.0psf) on member(s).30-35, 24-34
13) Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 28-30, 27-28, 25-27, 24-25
14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 16.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	A6	Attic	1	1	Job Reference (optional)



Scale = 1:95.1

Plate Offsets (X, Y): [2:0-4-14,0-0-1], [6:0-4-0,0-2-12], [11:0-6-12,0-3-4], [13:0-5-8,0-3-0], [18:0-3-8,0-2-8], [19:0-3-8,0-1-8], [36:0-2-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.35	25-28	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.69	25-28	>917	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.23	17	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS		Attic	-0.08	26-32	>999	360		
BCDL	10.0										Weight: 474 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* T1:2x6 SP DSS
BOT CHORD 2x4 SP DSS *Except* B2:2x4 SP No.2, B3:2x4 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-6-9 oc purlins, except end verticals, and 0-0-0 oc purlins (2-11-12 max.): 6-11, 13-14.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
4-7-12 oc bracing: 29-30
4-8-0 oc bracing: 27-29
6-0-0 oc bracing: 26-27.
WEBS 1 Row at midpt 4-34, 32-37, 23-36, 12-23, 13-21
JOINTS 1 Brace at Jt(s): 36, 37, 38, 30, 29, 27

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

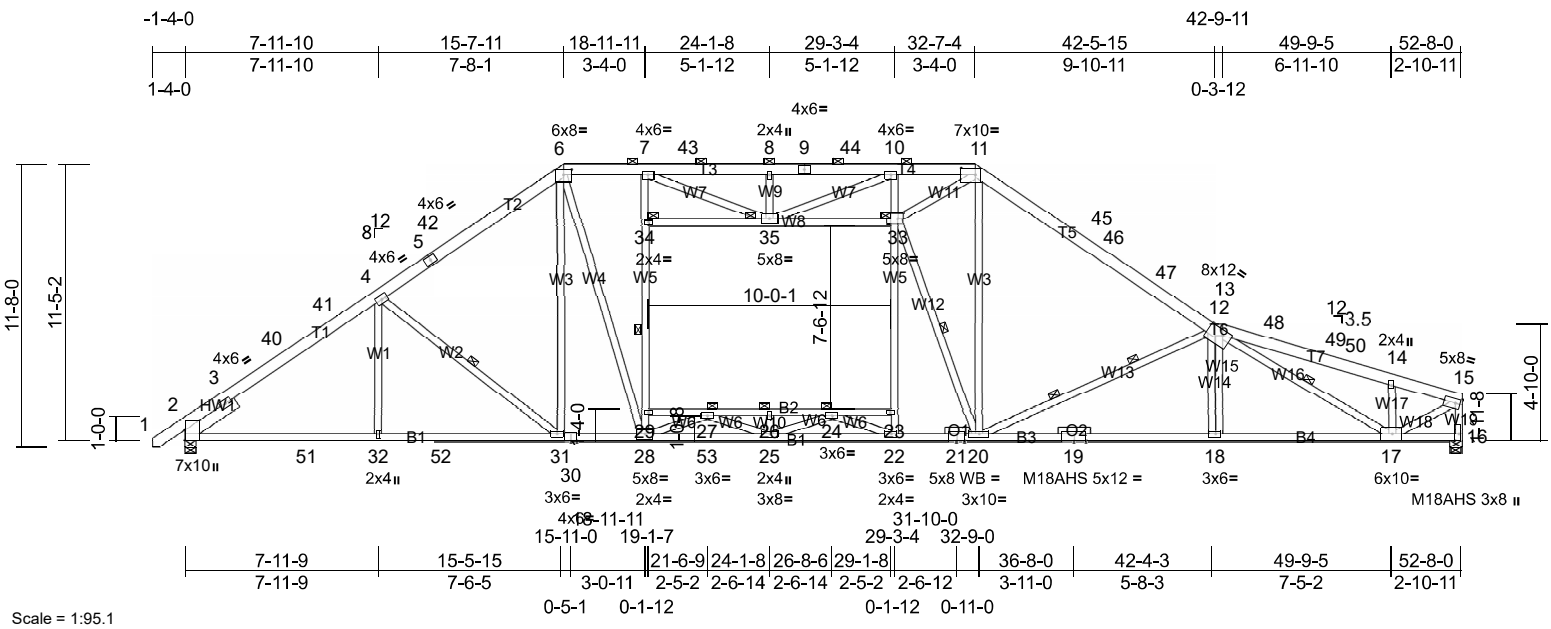
REACTIONS (lb/size) 2=2111/0-5-8, (min. 0-3-6), 17=2011/0-5-8, (min. 0-3-3)
Max Horiz 2=-224 (LC 14)
Max Uplift 17=-39 (LC 17)
Max Grav 2=2885 (LC 3), 17=2715 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1483/81, 3-43=-4202/235, 43-44=-4135/237, 4-44=-4048/263, 4-5=-3722/228, 5-45=-3673/241, 6-45=-3660/275, 6-7=-3402/259, 7-46=-4224/351, 8-46=-4224/351, 8-9=-4224/351, 9-47=-4224/351, 10-47=-4224/351, 10-11=-4482/320, 11-12=-4164/322, 12-48=-4880/346, 48-49=-4934/344, 13-49=-5016/324, 13-14=-5626/417, 14-50=-4860/375, 50-51=-4871/366, 51-52=-4906/357, 15-52=-4913/355, 15-16=-2135/205, 16-17=-2709/208
BOT CHORD 2-53=-199/3360, 35-53=-199/3360, 35-54=-199/3360, 34-54=-199/3360, 33-34=-28/3027, 31-33=-28/3027, 31-55=0/4151, 28-55=0/4151, 25-28=0/4225, 24-25=-6/3411, 23-24=-6/3411, 23-56=-178/4158, 22-56=-178/4158, 21-22=-178/4158, 20-21=-351/5555, 19-20=-314/4705, 18-19=-187/2047, 29-30=-1455/0, 27-29=-1455/0
WEBS 4-35=0/356, 4-34=-587/245, 6-34=-114/581, 6-31=-21/1414, 31-32=-909/98, 32-37=-860/192, 7-37=-757/203, 25-26=0/603, 26-36=0/797, 10-36=-422/233, 23-36=-582/313, 11-23=-80/1414, 12-23=-1394/271, 12-21=-91/1198, 13-21=-1694/223, 13-20=-1824/107, 14-20=-95/2103, 14-19=-799/67, 15-19=-132/2800, 15-18=-1954/213, 36-38=-261/1266, 16-18=-244/2892, 11-36=-180/1493, 8-38=-388/103, 7-38=-216/1084, 10-38=-539/339, 30-31=-1101/0, 28-30=0/590, 28-29=-256/0, 27-28=0/513, 25-27=-1102/0

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-2-3 to 4-1-0, Interior (1) 4-1-0 to 15-7-11, Exterior(2R) 15-7-11 to 20-10-14, Interior (1) 20-10-14 to 32-7-4, Exterior(2R) 32-7-4 to 38-0-15, Interior (1) 38-0-15 to 45-2-14, Exterior(2R) 45-2-14 to 50-6-1, Interior (1) 50-6-1 to 52-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) All plates are 4x6 (=) MT20 unless otherwise indicated.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * 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.
12) Ceiling dead load (5.0 psf) on member(s). 37-38, 36-38; Wall dead load (5.0psf) on member(s).32-37, 26-36
13) Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 30-32, 29-30, 27-29, 26-27
14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 17.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	A7	Attic	1	1	Job Reference (optional)



Scale = 1:95.1

Plate Offsets (X, Y): [2:0-5-2,0-0-1], [6:0-4-0,0-2-12], [11:0-7-0,0-3-8], [12:0-7-8,Edge], [33:0-2-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.39	18-20	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.79	18-20	>794	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.24	16	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS		Attic	-0.08	23-29	>999	360		
BCDL	10.0										Weight: 462 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* T5,T1:2x6 SP DSS
BOT CHORD 2x4 SP DSS *Except* B2:2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-6-11 oc purlins, except end verticals, and 0-0-0 oc purlins (2-11-5 max.): 6-11, 12-13.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
4-7-3 oc bracing: 26-27
4-7-6 oc bracing: 24-26
6-0-0 oc bracing: 23-24.
WEBS 1 Row at midpt 4-31, 29-34, 20-33, 13-17
WEBS 2 Rows at 1/3 pts 12-20
JOINTS 1 Brace at Jt(s): 33, 34, 26, 35, 27, 24

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

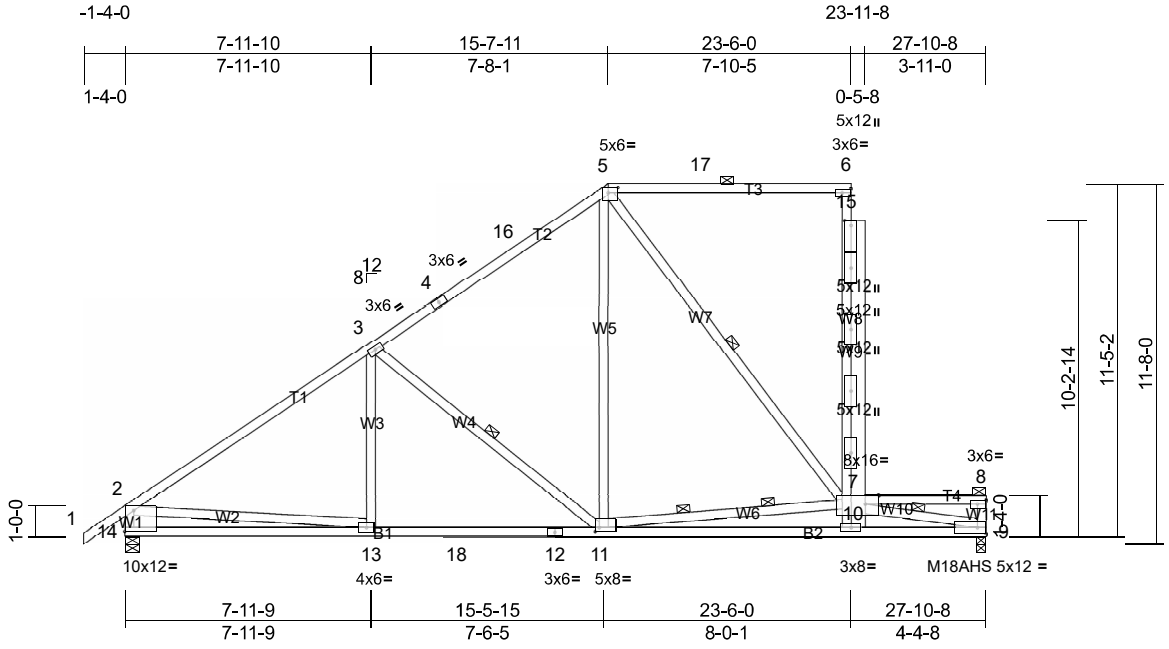
REACTIONS (lb/size) 2=2109/0-5-8, (min. 0-3-6), 16=1999/0-5-8, (min. 0-3-3)
Max Horiz 2=-226 (LC 14)
Max Uplift 16=-39 (LC 17)
Max Grav 2=2874 (LC 3), 16=2689 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1478/80, 3-40=-4184/237, 40-41=-4117/240, 4-41=-4030/266, 4-5=-3703/231, 5-42=-3654/243, 6-42=-3641/277, 6-7=-3383/262, 7-43=-4175/357, 8-43=-4175/357, 8-9=-4175/357, 9-44=-4175/357, 10-44=-4175/357, 10-11=-4383/318, 11-45=-4043/282, 45-46=-4057/251, 46-47=-4063/247, 12-47=-4158/233, 12-13=-5140/424, 13-48=-3075/343, 48-49=-3121/331, 49-50=-3128/328, 14-50=-3163/325, 14-15=-3134/282, 15-16=-2658/215
BOT CHORD 2-51=-197/3345, 32-51=-197/3345, 32-52=-197/3345, 31-52=-197/3345, 30-31=-25/3011, 28-30=-25/3011, 28-53=0/4145, 25-53=0/4145, 22-25=0/4219, 21-22=-4/3392, 20-21=-4/3392, 19-20=-308/5140, 18-19=-308/5140, 17-18=-295/5054, 26-27=-1484/0, 24-26=-1484/0
WEBS 4-32=0/356, 4-31=-588/245, 6-31=-113/582, 6-28=-23/1391, 28-29=-896/100, 29-34=-847/194, 7-34=-744/205, 22-23=0/537, 23-33=0/731, 10-33=-398/316, 20-33=-539/398, 11-20=-95/1341, 12-20=-2023/353, 12-18=-1121/252, 13-17=-2445/64, 14-17=-383/155, 33-35=-263/1183, 15-17=-268/3419, 13-18=-196/1437, 25-26=-255/0, 8-35=-394/100, 10-35=-464/354, 7-35=-220/1080, 11-33=-180/1374, 27-28=-1116/0, 25-27=0/603, 24-25=0/528, 22-24=-1119/0

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-2-3 to 4-1-0, Interior (1) 4-1-0 to 15-7-11, Exterior(2R) 15-7-11 to 20-10-14, Interior (1) 20-10-14 to 32-7-4, Exterior(2R) 32-7-4 to 37-10-7, Interior (1) 37-10-7 to 42-9-11, Exterior(2R) 42-9-11 to 48-0-15, Interior (1) 48-0-15 to 52-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) Provide adequate drainage to prevent water ponding.
8) All plates are MT20 plates unless otherwise indicated.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
11) Ceiling dead load (5.0 psf) on member(s). 34-35, 33-35; Wall dead load (5.0psf) on member(s).29-34, 23-33
12) Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 27-29, 26-27, 24-26, 23-24
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 16.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
15) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	B1	Piggyback Base	1	1	Job Reference (optional)



Scale = 1:74.7

Plate Offsets (X, Y): [5:0-3-12,0-2-0], [6:Edge,0-1-8], [7:0-5-4,Edge], [8:Edge,0-1-8], [11:0-1-8,0-1-8], [14:Edge,0-8-2]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.38	10-11	>873	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.74	10-11	>446	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.09	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 216 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T3:2x4 SP No.1
BOT CHORD 2x4 SP DSS
WEBS 2x4 SP No.2 *Except* W9:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-9-12 oc purlins, except end verticals, and 0-0-0 oc purlins (6-0-0 max.): 5-6, 7-10, 7-8.
BOT CHORD Rigid ceiling directly applied or 8-3-12 oc bracing.
WEBS 1 Row at midpt 3-11, 5-7, 7-9
WEBS 2 Rows at 1/3 pts 7-11

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

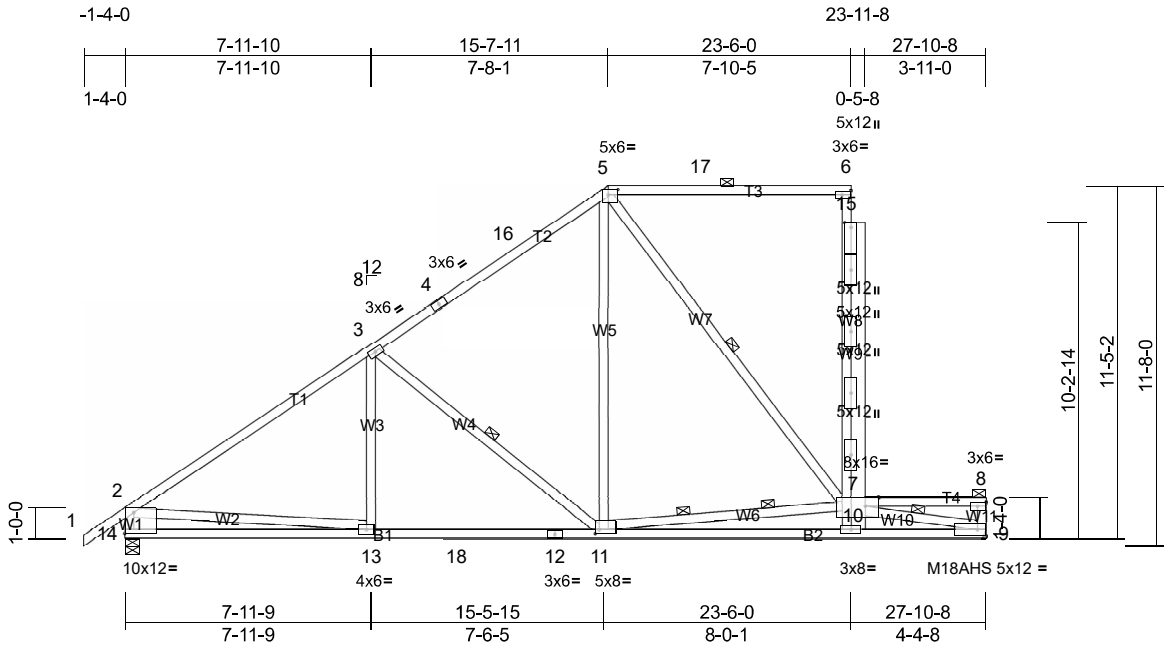
REACTIONS (lb/size) 9=1440/0-3-8, (min. 0-1-14), 14=1040/0-5-8, (min. 0-1-11)
Max Horiz 14=536 (LC 15)
Max Uplift 9=-112 (LC 14), 14=-63 (LC 14)
Max Grav 9=1876 (LC 3), 14=1432 (LC 26)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1747/166, 3-4=-1226/159, 4-16=-1109/182, 5-16=-1097/205, 7-15=-722/156, 6-15=-718/157, 7-8=-357/13, 8-9=-345/0, 2-14=-1303/162
BOT CHORD 13-14=-601/851, 13-18=-428/1382, 12-18=-428/1382, 11-12=-428/1382, 10-11=-440/4771, 9-10=-678/5755
WEBS 3-13=0/285, 3-11=-635/223, 5-11=-112/1226, 5-7=-1199/240, 7-11=-3943/509, 2-13=0/972, 7-9=-5566/675

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 15-7-11, Exterior(2R) 15-7-11 to 18-7-11, Interior (1) 18-7-11 to 27-8-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 9 and 63 lb uplift at joint 14.
11) Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 523 lb down and 80 lb up at 23-7-0 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: 1-2=-43, 2-5=-43, 5-6=-53, 7-8=-83, 9-14=-20
Concentrated Loads (lb)
Vert: 6=-443
3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-50, 2-5=-50, 5-6=-50, 7-8=-140, 13-14=-35, 13-18=-50, 9-18=-35
Concentrated Loads (lb)
Vert: 6=-424

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	B2	Piggyback Base	1	1	Job Reference (optional)



Scale = 1:74.7

Plate Offsets (X, Y): [5:0-3-12,0-2-0], [6:Edge,0-1-8], [7:0-5-4,Edge], [8:Edge,0-1-8], [11:0-1-8,0-1-8], [14:Edge,0-8-2]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.38	10-11	>873	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.74	10-11	>446	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.09	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 216 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T3:2x4 SP No.1
BOT CHORD 2x4 SP DSS
WEBS 2x4 SP No.2 *Except* W9:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-9-12 oc purlins, except end verticals, and 0-0-0 oc purlins (6-0-0 max.): 5-6, 7-10, 7-8.
BOT CHORD Rigid ceiling directly applied or 8-3-12 oc bracing.
WEBS 1 Row at midpt 3-11, 5-7, 7-9
WEBS 2 Rows at 1/3 pts 7-11

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

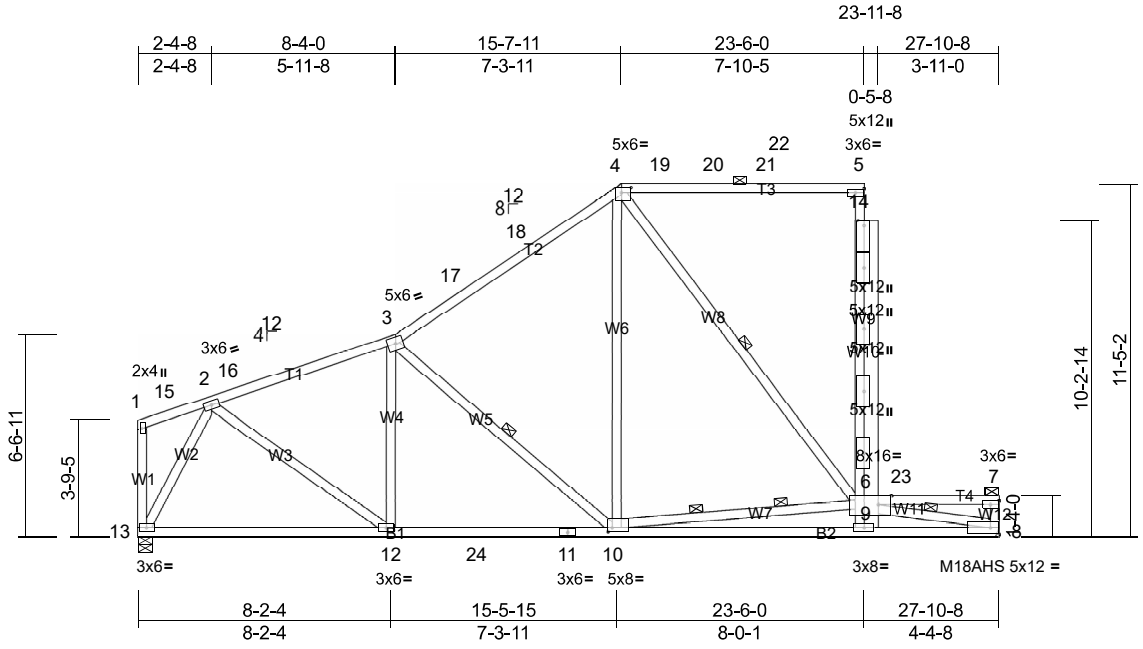
REACTIONS (lb/size) 9=1440/ Mechanical, 14=1040/0-5-8, (min. 0-1-11)
Max Horiz 14=536 (LC 15)
Max Uplift 9=-112 (LC 14), 14=-63 (LC 14)
Max Grav 9=1876 (LC 3), 14=1432 (LC 26)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1747/166, 3-4=-1226/159, 4-16=-1109/182, 5-16=-1097/205, 7-15=-722/156, 6-15=-718/157, 7-8=-357/13, 8-9=-345/0, 2-14=-1303/162
BOT CHORD 13-14=-601/851, 13-18=-428/1382, 12-18=-428/1382, 11-12=-428/1382, 10-11=-440/4771, 9-10=-678/5755
WEBS 3-13=0/285, 3-11=-635/223, 5-11=-112/1226, 5-7=-1199/240, 7-11=-3943/509, 2-13=0/972, 7-9=-5566/675

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 15-7-11, Exterior(2R) 15-7-11 to 18-7-11, Interior (1) 18-7-11 to 27-8-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 9 and 63 lb uplift at joint 14.
12) Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 523 lb down and 80 lb up at 23-7-0 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: 1-2=-43, 2-5=-43, 5-6=-53, 7-8=-83, 9-14=-20
Concentrated Loads (lb)
Vert: 6=-443
3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-50, 2-5=-50, 5-6=-50, 7-8=-140, 13-14=-35, 13-18=-50, 9-18=-35
Concentrated Loads (lb)
Vert: 6=-424

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	B3	Piggyback Base	1	1	Job Reference (optional)



Scale = 1:74.7

Plate Offsets (X, Y): [4:0-3-12,0-2-0], [5:Edge,0-1-8], [6:0-5-4,Edge], [7:Edge,0-1-8], [10:0-1-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.38	9-10	>876	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.74	9-10	>447	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.09	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 222 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T2,T3:2x4 SP DSS
BOT CHORD 2x4 SP DSS
WEBS 2x4 SP No.2 *Except* W10:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-6-15 oc purlins, except end verticals, and 0-0-0 oc purlins (6-0-0 max.): 4-5, 6-9, 6-7.
BOT CHORD Rigid ceiling directly applied or 6-5-13 oc bracing.
WEBS 1 Row at midpt 3-10, 4-6, 6-8
WEBS 2 Rows at 1/3 pts 6-10

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

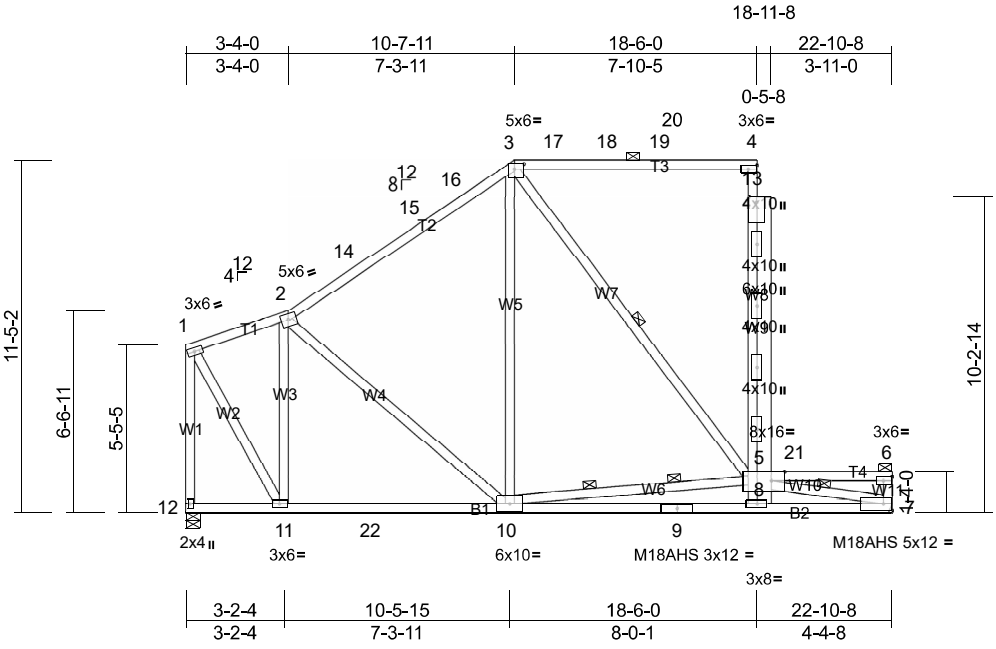
REACTIONS (lb/size) 8=1442/ Mechanical, 13=974/0-5-8, (min. 0-1-8)
Max Horiz 13=516 (LC 17)
Max Uplift 8=-103 (LC 16), 13=-50 (LC 16)
Max Grav 8=1879 (LC 3), 13=1293 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-16=-1394/211, 3-16=-1347/231, 3-17=-1190/250, 17-18=-1093/259, 4-18=-1070/284, 6-14=-783/186, 5-14=-780/183, 6-23=-357/31, 7-23=-357/31, 7-8=-345/0
BOT CHORD 12-13=-509/890, 12-24=-475/1282, 11-24=-475/1282, 10-11=-475/1282, 9-10=-791/4769, 8-9=-1111/5764
WEBS 2-12=-89/860, 3-12=-291/107, 3-10=-500/175, 4-10=-153/1145, 4-6=-1182/316, 6-10=-3918/817, 2-13=-1299/266, 6-8=-5575/1097

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 9-9-12 to 12-9-12, Interior (1) 12-9-12 to 25-3-11, Exterior(2R) 25-3-11 to 28-3-11, Interior (1) 28-3-11 to 37-4-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 8 and 50 lb uplift at joint 13.
12) Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 523 lb down and 115 lb up at 33-3-0 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=-43, 3-4=-43, 4-5=-53, 6-7=-83, 8-13=-20
Concentrated Loads (lb)
Vert: 5=-443
3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-50, 3-4=-50, 4-5=-50, 6-7=-140, 12-13=-35, 12-24=-50, 8-24=-35
Concentrated Loads (lb)
Vert: 5=-424

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	B4	Piggyback Base	5	1	Job Reference (optional)



Scale = 1:74.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.30	8-10	>900	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.59	8-10	>458	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 200 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T2:2x4 SP No.1, T3:2x4 SP DSS
BOT CHORD 2x4 SP DSS
WEBS 2x4 SP No.2 *Except* W9:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 0-0-0 oc purlins (6-0-0 max.): 3-4, 5-8, 5-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-5, 5-7
WEBS 2 Rows at 1/3 pts 5-10

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

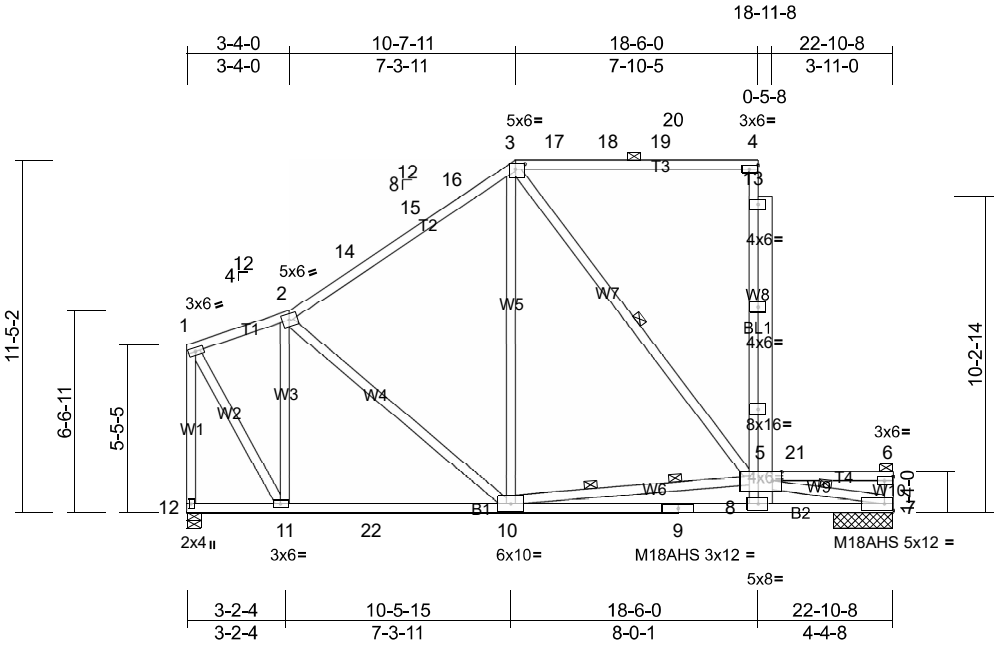
REACTIONS (lb/size) 7=1261/ Mechanical, 12=840/0-5-8, (min. 0-1-8)
Max Horiz 12=511 (LC 17)
Max Uplift 7=-126 (LC 17), 12=-41 (LC 13)
Max Grav 7=1640 (LC 3), 12=1108 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-572/102, 2-14=-892/184, 14-15=-772/194, 15-16=-749/199, 3-16=-711/219, 5-13=-784/194, 4-13=-780/192, 5-21=-321/27, 6-21=-321/27, 6-7=-335/0, 1-12=-1084/195
BOT CHORD 11-12=-471/581, 11-22=-454/798, 10-22=-454/798, 9-10=-800/4024, 8-9=-800/4024, 7-8=-1121/4884
WEBS 2-11=-700/215, 2-10=-48/265, 3-10=-121/694, 3-5=-803/307, 5-10=-3434/737, 1-11=-192/1020, 5-7=-4705/1106

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 14-9-12 to 18-0-0, Interior (1) 18-0-0 to 25-3-11, Exterior(2R) 25-3-11 to 28-3-11, Interior (1) 28-3-11 to 37-4-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 7 and 41 lb uplift at joint 12.
12) Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 523 lb down and 123 lb up at 33-3-0 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: 1-2=-43, 2-3=-43, 3-4=-53, 5-6=-83, 7-12=-20
Concentrated Loads (lb)
Vert: 4=-443
3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-50, 2-3=-50, 3-4=-50, 5-6=-140, 11-12=-35, 11-22=-50, 7-22=-35
Concentrated Loads (lb)
Vert: 4=-424

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	B5	Piggyback Base	1	1	Job Reference (optional)



Scale = 1:74.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.30	8-10	>900	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.59	8-10	>458	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 200 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T2:2x4 SP No.1, T3:2x4 SP DSS
BOT CHORD 2x4 SP DSS
WEBS 2x4 SP No.2
OTHERS 2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 0-0-0 oc purlins (6-0-0 max.): 3-4, 5-8, 5-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-5, 5-7
WEBS 2 Rows at 1/3 pts 5-10

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

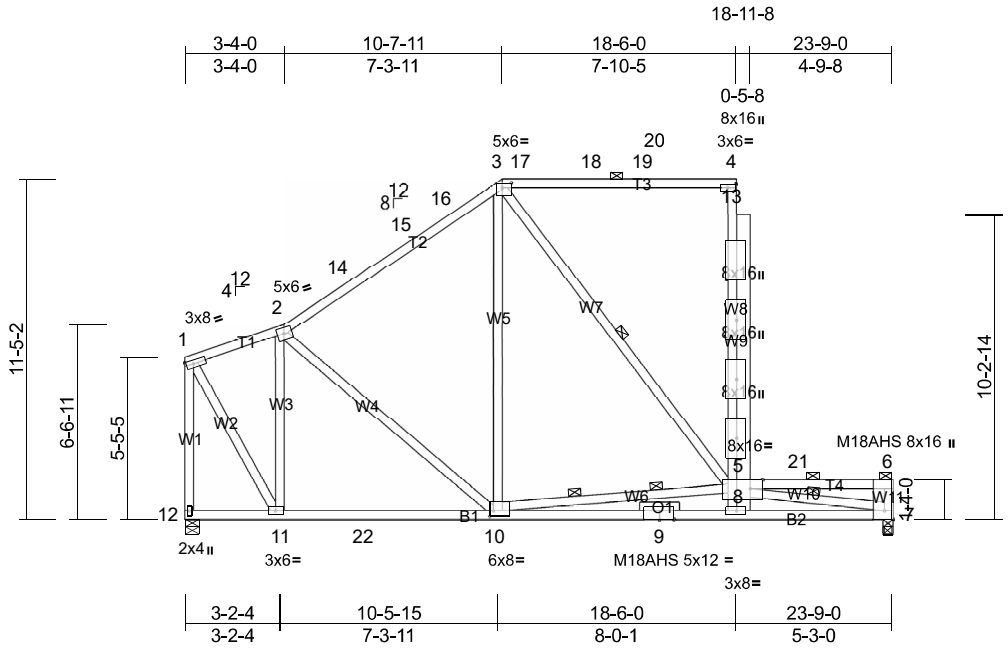
REACTIONS (lb/size) 7=1261/1-11-0, (min. 0-1-15), 12=840/0-5-8, (min. 0-1-8)
Max Horiz 12=511 (LC 17)
Max Uplift 7=-126 (LC 17), 12=-41 (LC 13)
Max Grav 7=1640 (LC 3), 12=1108 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-572/102, 2-14=-892/184, 14-15=-772/194, 15-16=-749/199, 3-16=-711/219, 5-13=-784/194, 4-13=-780/192, 5-21=-321/27, 6-21=-321/27, 6-7=-335/0, 1-12=-1084/195
BOT CHORD 11-12=-471/581, 11-22=-454/798, 10-22=-454/798, 9-10=-800/4024, 8-9=-800/4024, 7-8=-1121/4884
WEBS 2-11=-700/215, 2-10=-48/265, 3-10=-121/694, 3-5=-803/307, 5-10=-3434/737, 1-11=-192/1020, 5-7=-4705/1106

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 14-9-12 to 18-0-0, Interior (1) 18-0-0 to 25-3-11, Exterior(2R) 25-3-11 to 28-3-11, Interior (1) 28-3-11 to 37-4-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain load requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 7 and 41 lb uplift at joint 12.
11) Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 523 lb down and 123 lb up at 33-3-0 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: 1-2=-43, 2-3=-43, 3-4=-53, 5-6=-83, 7-12=-20
Concentrated Loads (lb)
Vert: 4=-443
3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-50, 2-3=-50, 3-4=-50, 5-6=-140, 11-12=-35, 11-22=-50, 7-22=-35
Concentrated Loads (lb)
Vert: 4=-424

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	B6	Piggyback Base	1	1	Job Reference (optional)



Scale = 1:77.5

Plate Offsets (X, Y): [3:0-3-12,0-2-0], [4:Edge,0-1-8], [5:0-5-4,Edge], [5:8-0-9,33-6-0], [6:Edge,0-3-8], [10:0-1-8,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.43	8-10	>653	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.84	8-10	>337	180	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.09	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 206 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T2,T3:2x4 SP DSS
BOT CHORD 2x4 SP DSS
WEBS 2x4 SP No.2 *Except* W9:2x6 SP No.2
OTHERS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 0-0-0 oc purlins (4-6-8 max.): 3-4, 5-8, 5-6.
BOT CHORD Rigid ceiling directly applied or 6-1-6 oc bracing.
WEBS 1 Row at midpt 3-5, 5-7
WEBS 2 Rows at 1/3 pts 5-10

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

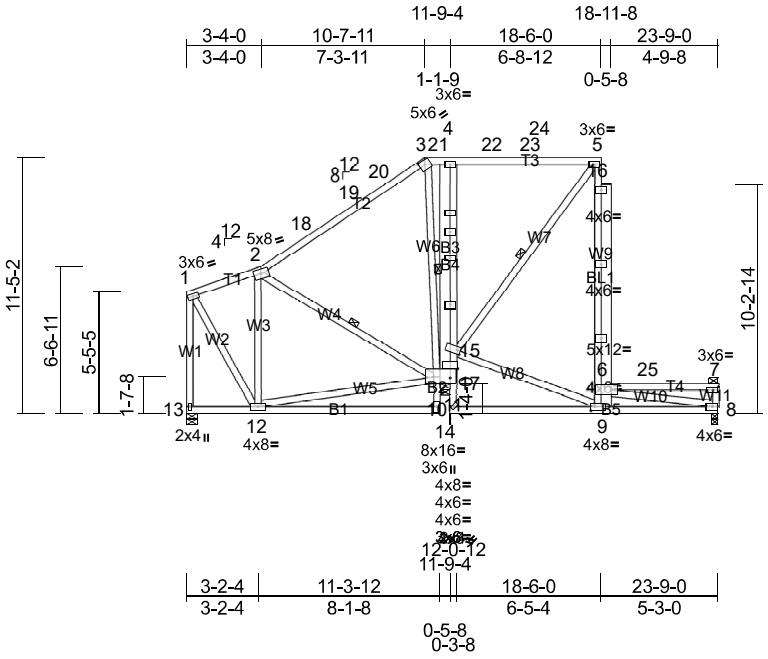
REACTIONS (lb/size) 7=1303/0-3-8, (min. 0-2-1), 12=889/0-5-8, (min. 0-1-8)
Max Horiz 12=511 (LC 17)
Max Uplift 7=-107 (LC 17), 12=-44 (LC 13)
Max Grav 7=1729 (LC 3), 12=1172 (LC 3)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-603/105, 2-14=-959/185, 14-15=-844/195, 15-16=-820/200, 3-16=-783/220, 5-13=-783/189, 4-13=-780/187, 5-21=-432/26, 6-21=-432/26, 6-7=-396/0, 1-12=-1146/195
BOT CHORD 11-12=-471/581, 11-22=-456/818, 10-22=-456/818, 9-10=-906/4890, 8-9=-906/4890, 7-8=-1241/6018
WEBS 2-11=-741/216, 2-10=-32/303, 3-10=-131/778, 3-5=-857/312, 5-10=-4239/765, 1-11=-192/1074, 5-7=-5705/1219

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 14-9-12 to 18-0-0, Interior (1) 18-0-0 to 25-3-11, Exterior(2R) 25-3-11 to 28-3-11, Interior (1) 28-3-11 to 38-3-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 7 and 44 lb uplift at joint 12.
11) Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 523 lb down and 119 lb up at 33-3-0 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: 1-2=-43, 2-3=-43, 3-4=-53, 5-6=-83, 7-12=-20
Concentrated Loads (lb)
Vert: 4=-443
3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-50, 2-3=-50, 3-4=-50, 5-6=-140, 11-12=-35, 11-22=-50, 7-22=-35
Concentrated Loads (lb)
Vert: 4=-424

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	B7	Piggyback Base	1	1	Job Reference (optional)



Scale = 1:103

Plate Offsets (X, Y): [3:0-3-0,0-2-3], [6:0-3-12,0-2-12], [7:Edge,0-1-8], [9:0-1-12,0-2-0], [10:0-1-4,0-1-0], [14:0-4-0,0-3-8], [15:0-2-0,0-2-0], [17:0-4-0,0-5-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.10	11-12	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.21	11-12	>676	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.61	Horz(CT)	-0.03	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 249 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T2,T3:2x4 SP No.1
BOT CHORD 2x4 SP No.2 *Except* B4:2x4 SP No.1, B3:2x6 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals, and 0-0-0 oc purlins (6-0-0 max.): 3-5, 6-9, 6-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
1 Row at midpt 4-14
6-0-0 oc bracing: 14-17
WEBS 1 Row at midpt 5-15, 3-14, 2-14

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

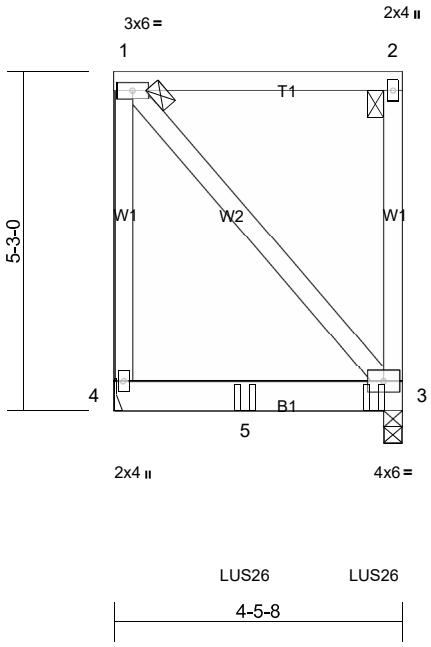
REACTIONS All bearings 0-3-8. except 13=0-5-8, 10=0-0-8, 17=0-5-4
(lb) - Max Horiz 13=511 (LC 17)
Max Uplift All uplift 100 (lb) or less at joint(s) 8 except 13=-343 (LC 57), 17=-279 (LC 13)
Max Grav All reactions 250 (lb) or less at joint (s) 10, 13 except 8=436 (LC 66), 17=2177 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-18=-177/716, 18-19=-152/738, 19-20=-148/746, 3-20=-139/818, 3-21=-61/661, 4-21=-61/661, 4-22=-53/681, 22-23=-53/681, 23-24=-53/681, 5-24=-53/681, 6-16=-27/339, 5-16=-30/341, 7-8=-346/0, 1-13=-175/331
BOT CHORD 12-13=-471/578, 14-17=-1616/379, 14-15=-1603/296, 4-15=-559/168, 9-10=-392/161, 8-9=-403/732
WEBS 9-15=-144/434, 5-15=-1188/257, 3-14=-699/226, 6-8=-620/407, 2-12=-92/531, 1-12=-339/213, 12-14=-482/321, 2-14=-592/236

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 14-9-12 to 18-0-0, Interior (1) 18-0-0 to 25-3-11, Exterior(2R) 25-3-11 to 28-3-11, Interior (1) 28-3-11 to 38-3-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) The Fabrication Tolerance at joint 3 = 4%
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) 17 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 at joint(s) 10.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 8 except (jt=lb) 13=342, 17=278.
13) Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 523 lb down and 119 lb up at 33-3-0 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: 1-2=-43, 2-3=-43, 3-5=-53, 6-7=-83, 11-13=-20, 8-10=-20
Concentrated Loads (lb)
Vert: 5=-443
3) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-50, 2-3=-50, 3-5=-50, 6-7=-140, 11-13=-20, 8-10=-20
Concentrated Loads (lb)
Vert: 5=-424

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	BXR	Flat Girder	1	**2**	Job Reference (optional)



Scale = 1:35.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.02	3-4	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.04	3-4	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	n/a	-	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 79 lb	FT = 20%

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

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

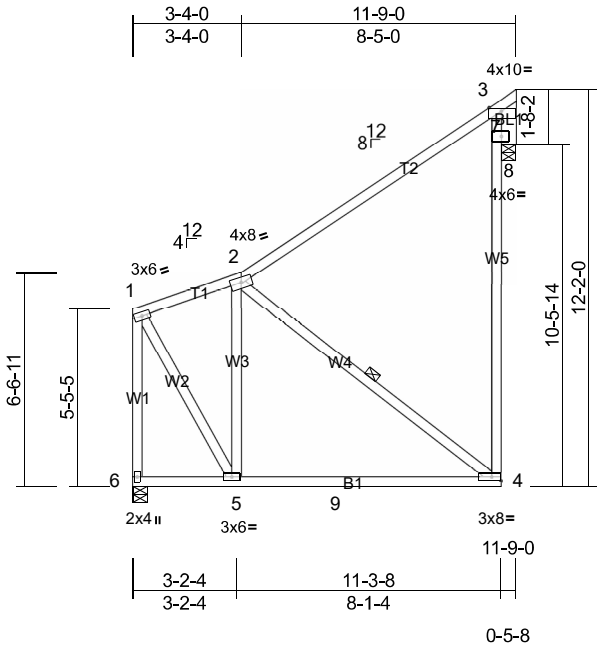
REACTIONS (lb/size) 3=999/0-3-8, (min. 0-1-8), 4=471/ Mechanical
Max Horiz 4=-143 (LC 8)
Max Uplift 3=-242 (LC 9), 4=-162 (LC 8)
Max Grav 3=1246 (LC 2), 4=573 (LC 2)

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

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
6) Unbalanced snow loads have been considered for this design.
7) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
8) Provide adequate drainage to prevent water ponding.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) Refer to girder(s) for truss to truss connections.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 162 lb uplift at joint 4 and 242 lb uplift at joint 3.
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 LUS26 (4-10d Girder, 3-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-4 from the left end to 4-0-4 to connect truss(es) I1 (1 ply 2x4 SP) to back face of bottom chord.
15) Fill all nail holes where hanger is in contact with lumber.
16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 746 lb down and 90 lb up at 4-3-12 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: 1-2=-53, 3-4=-20
Concentrated Loads (lb)
Vert: 3=-586, 5=-579

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	C1	Roof Special	1	1	Job Reference (optional)



Scale = 1:70.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.15	4-5	>900	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.28	4-5	>492	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.32	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 96 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 2-4

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

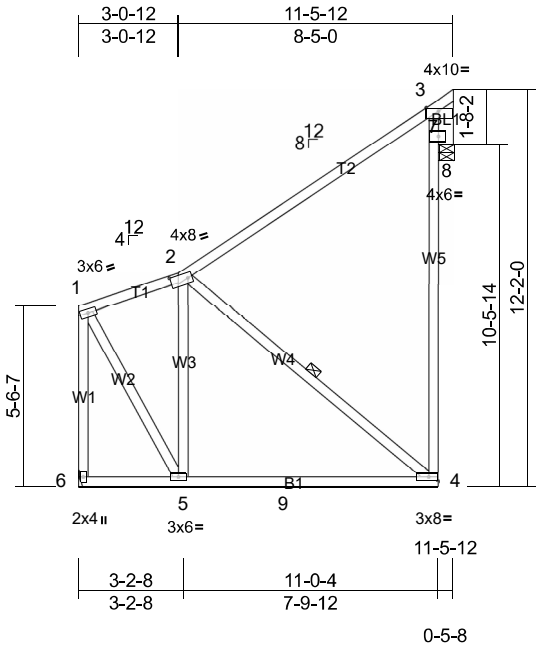
REACTIONS (lb/size) 6=359/0-5-8, (min. 0-1-8), 8=335/0-5-0, (min. 0-1-8)
Max Horiz 6=332 (LC 13)
Max Uplift 6=-62 (LC 12), 8=-163 (LC 13)
Max Grav 6=581 (LC 31), 8=574 (LC 30)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-288/22, 4-8=-204/356, 3-8=-204/356, 1-6=-609/120
BOT CHORD 5-6=-483/379, 5-9=-372/414, 4-9=-372/414
WEBS 2-4=-354/328, 1-5=-108/567, 3-8=-638/388

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 14-9-12 to 18-0-0, Interior (1) 18-0-0 to 25-9-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 6 and 163 lb uplift at joint 8.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	C2	Roof Special	3	1	Job Reference (optional)



Scale = 1:70.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.14	4-5	>983	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.25	4-5	>539	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.33	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 96 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 2-4

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

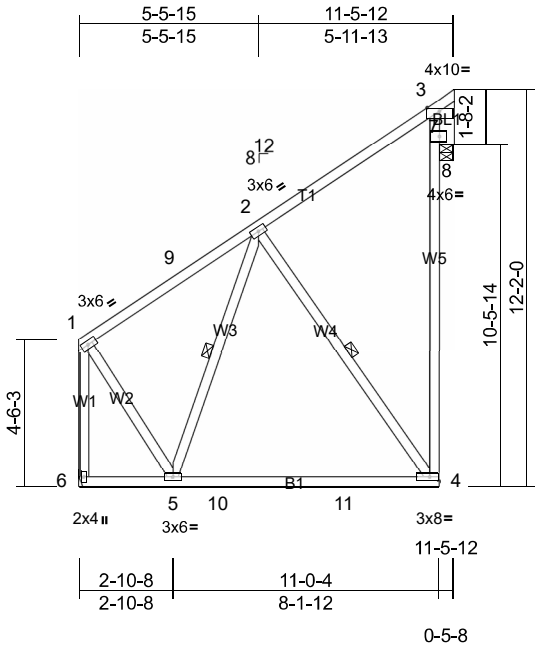
REACTIONS (lb/size) 6=351/ Mechanical, 8=326/0-5-8, (min. 0-1-8)
Max Horiz 6=332 (LC 13)
Max Uplift 6=-61 (LC 12), 8=-166 (LC 13)
Max Grav 6=574 (LC 31), 8=566 (LC 30)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-281/22, 4-8=-206/349, 3-8=-206/349, 1-6=-595/121
BOT CHORD 5-6=-478/380, 5-9=-373/415, 4-9=-373/415
WEBS 2-4=-354/328, 1-5=-116/563, 3-8=-634/388

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 15-1-0 to 18-0-0, Interior (1) 18-0-0 to 25-9-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
9) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 6 and 166 lb uplift at joint 8.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	C3	Roof Special	4	1	Job Reference (optional)



Scale = 1:70.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.20	4-5	>664	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.32	4-5	>411	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	-0.26	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 96 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x6 SP 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.
WEBS 1 Row at midpt 2-5, 2-4

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

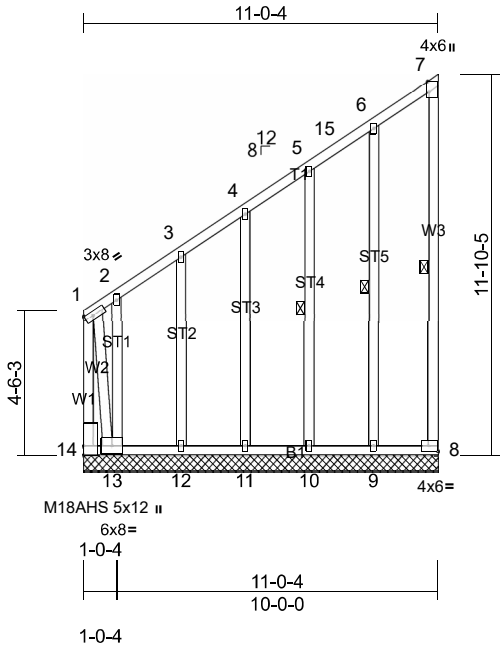
REACTIONS (lb/size) 6=351/ Mechanical, 8=326/0-5-0, (min. 0-1-8)
Max Horiz 6=330 (LC 11)
Max Uplift 8=-164 (LC 11)
Max Grav 6=579 (LC 27), 8=598 (LC 26)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-635/83, 1-9=-336/33, 2-9=-253/53, 4-8=-229/488, 3-8=-229/488
BOT CHORD 5-6=-451/382, 5-10=-264/331, 10-11=-264/331, 4-11=-264/331
WEBS 1-5=-70/455, 2-4=-410/283, 3-8=-625/282

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 5-5-0 to 8-5-0, Interior (1) 8-5-0 to 16-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint 8.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	C4E	Monopitch	1	1	Job Reference (optional)



Scale = 1:71.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.39	Vert(TL)	n/a	-	n/a	999	M18AHS	186/179
TCDL	10.0	Rep Stress Incr	YES	WB	0.67	Horiz(TL)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 120 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* W1:2x4 SP DSS
OTHERS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
7-4-11 oc bracing: 13-14.
WEBS 1 Row at midpt 7-8, 6-9, 5-10

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

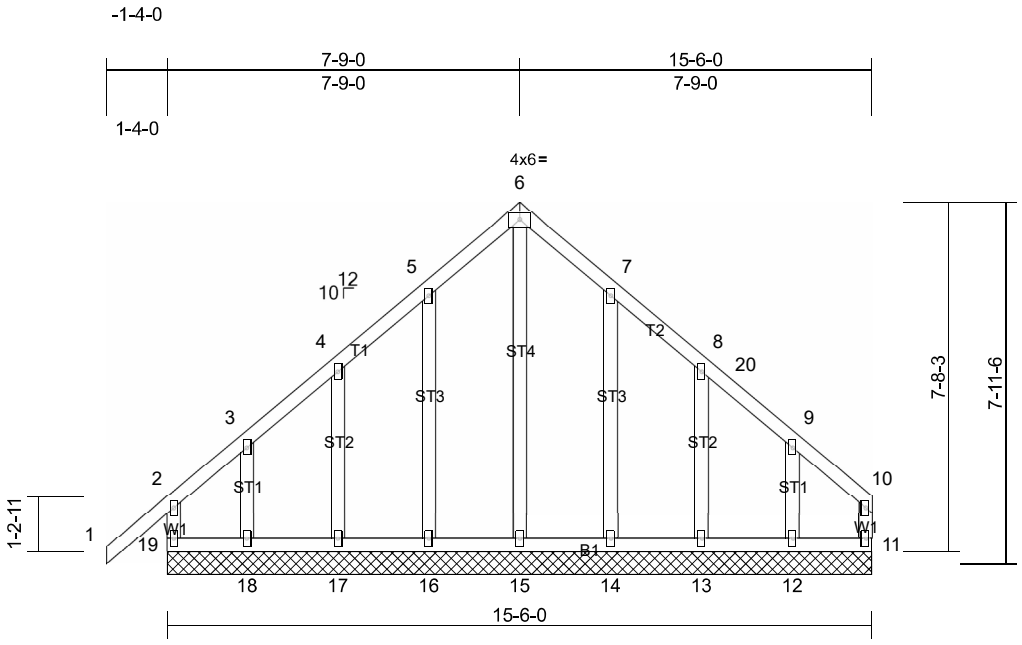
REACTIONS All bearings 11-0-4.
(lb) - Max Horiz 14=344 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s) 8, 9, 10, 11, 12 except 13=-1307 (LC 11), 14=-1040 (LC 12)
Max Grav All reactions 250 (lb) or less at joint (s) 8, 9, 10, 11, 12 except 13=1041 (LC 12), 14=1451 (LC 11)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-449/315, 2-3=-488/355, 3-4=-370/286, 4-5=-313/260, 1-14=-2918/2027
BOT CHORD 13-14=-571/470
WEBS 1-13=-1936/2776

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 5-5-0 to 8-3-8, Exterior(2N) 8-3-8 to 16-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) All plates are MT20 plates unless otherwise indicated.
7) All plates are 2x4 (||) MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * 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.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 8, 9, 10, 11, 12 except (jt=lb) 14=1040, 13=1306.
14) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	D1E	Common Supported Gable	1	1	Job Reference (optional)



Scale = 1:50.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.00	11	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 103 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP 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.

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

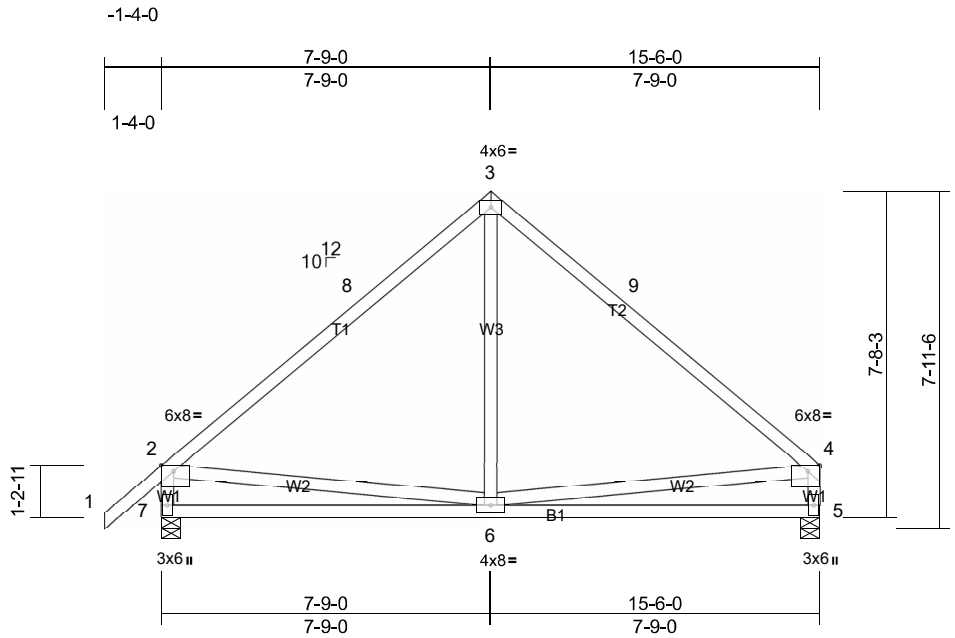
REACTIONS All bearings 15-6-0.
(lb) - Max Horiz 19=173 (LC 13)
Max Uplift All uplift 100 (lb) or less at joint(s) 11, 13, 14, 16, 17, 19 except 12=-112 (LC 15), 18=-117 (LC 14)
Max Grav All reactions 250 (lb) or less at joint (s) 11, 12, 13, 14, 15, 16, 17, 18, 19

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-131/258, 6-7=-131/258
WEBS 6-15=-266/76

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-4-0 to 1-9-0, Exterior(2N) 1-9-0 to 7-9-0, Corner(3R) 7-9-0 to 10-9-0, Exterior(2N) 10-9-0 to 15-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) All plates are 2x4 (||) MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * 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.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 19, 11, 16, 17, 14, 13 except (jt=lb) 18=116, 12=112.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	D2	Common	4	1	Job Reference (optional)



Scale = 1:54.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.07	6-7	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.14	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 91 lb	FT = 20%

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

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

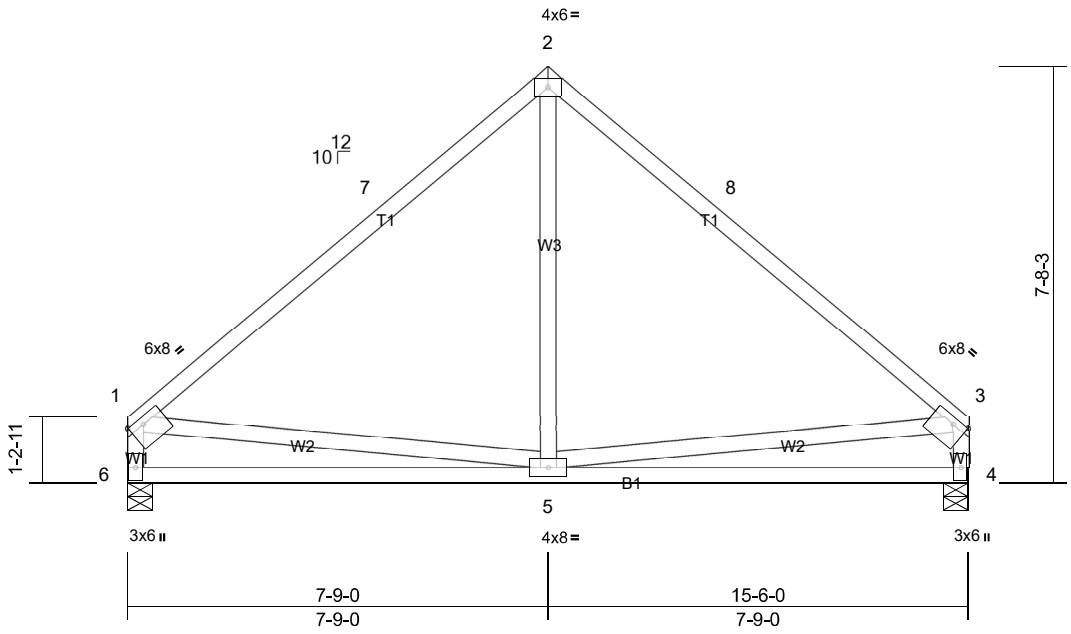
REACTIONS (lb/size) 5=477/0-5-8, (min. 0-1-8), 7=547/0-5-8, (min. 0-1-8)
Max Horiz 7=173 (LC 13)
Max Uplift 5=-53 (LC 15), 7=-75 (LC 14)
Max Grav 5=604 (LC 2), 7=701 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-613/94, 3-8=-436/122, 3-9=-426/117, 4-9=-603/87, 2-7=-634/146, 4-5=-537/100
BOT CHORD 6-7=-260/431
WEBS 3-6=0/314, 2-6=-122/270

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 7-9-0, Exterior(2R) 7-9-0 to 10-9-0, Interior (1) 10-9-0 to 15-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 75 lb uplift at joint 7 and 53 lb uplift at joint 5.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	D3	Common	3	1	Job Reference (optional)



Scale = 1:42.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.07	5-6	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.14	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 88 lb	FT = 20%

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

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

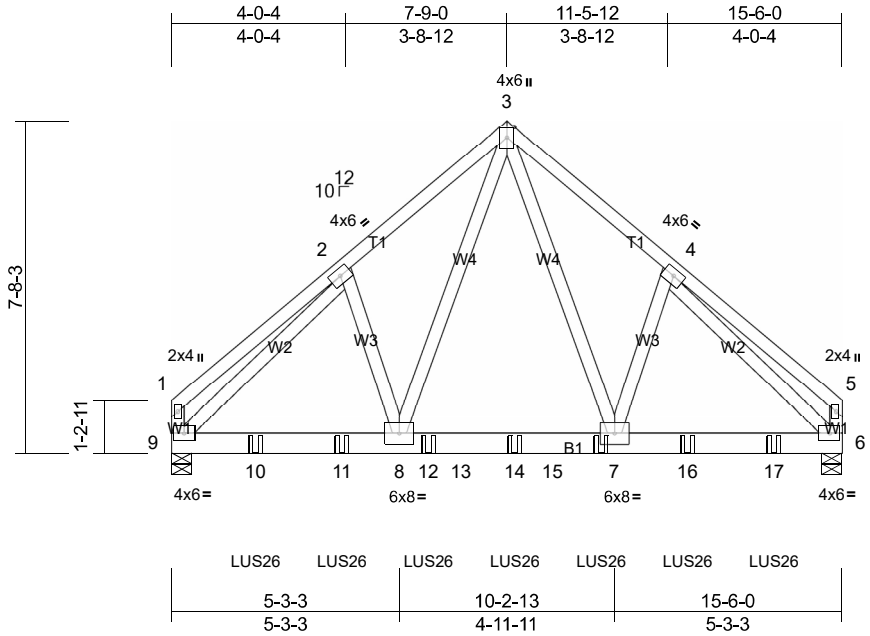
REACTIONS (lb/size) 4=480/0-5-8, (min. 0-1-8), 6=480/0-5-8, (min. 0-1-8)
Max Horiz 6=-156 (LC 10)
Max Uplift 4=-53 (LC 15), 6=-53 (LC 14)
Max Grav 4=608 (LC 2), 6=608 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-7=-610/88, 2-7=-433/118, 2-8=-433/118, 3-8=-610/88, 1-6=-541/100, 3-4=-541/100
BOT CHORD 5-6=-196/348
WEBS 2-5=0/310

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 7-9-0, Exterior(2R) 7-9-0 to 10-9-0, Interior (1) 10-9-0 to 15-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 53 lb uplift at joint 6 and 53 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	D4G	Common Girder	1	2	Job Reference (optional)



Scale = 1:53.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.03	6-7	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.05	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.01	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 235 lb	FT = 20%

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

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

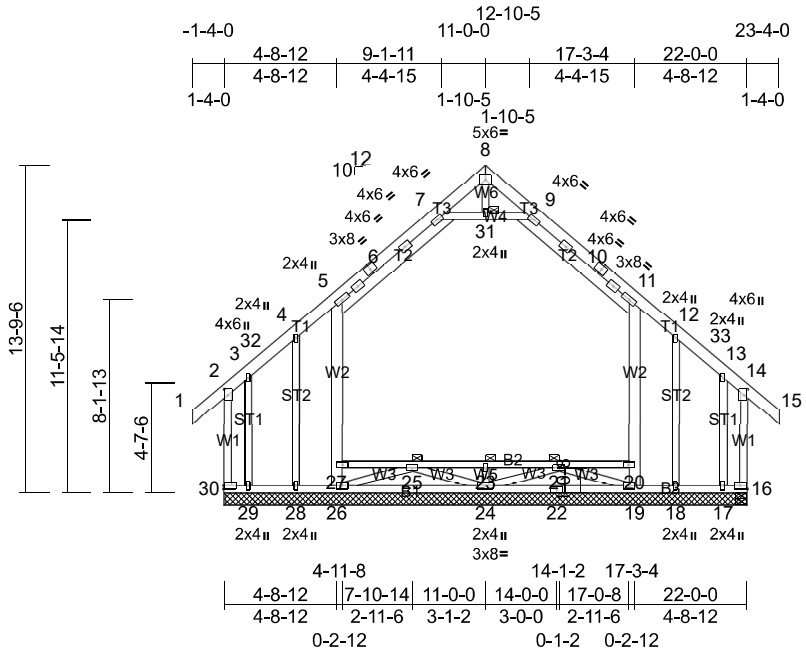
REACTIONS (lb/size) 6=1795/0-5-8, (min. 0-1-9), 9=1636/0-5-8, (min. 0-1-8)
Max Horiz 9=154 (LC 9)
Max Uplift 6=-91 (LC 11)
Max Grav 6=2613 (LC 22), 9=2506 (LC 21)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-617/25, 2-3=-2523/0, 3-4=-2543/118, 4-5=-648/119, 1-9=-470/34, 5-6=-490/95
BOT CHORD 9-10=0/1920, 10-11=0/1920, 8-11=0/1920, 8-12=0/1437, 12-13=0/1437, 13-14=0/1437, 14-15=0/1437, 7-15=0/1437, 7-16=0/1867, 16-17=0/1867, 6-17=0/1867
WEBS 3-7=-222/1631, 4-7=-42/290, 3-8=0/1585, 2-8=-31/291, 2-9=-2137/0, 4-6=-2125/0

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 6.
10) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-11-4 from the left end to 13-11-4 to connect truss(es) C3 (1 ply 2x4 SP), C2 (1 ply 2x4 SP) to back face of bottom chord.
11) 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: 1-3=-43, 3-5=-43, 6-9=-20
Concentrated Loads (lb)
Vert: 7=-383, 10=-331, 11=-331, 12=-331, 14=-331, 16=-383, 17=-383

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	E1E	Attic	1	1	Job Reference (optional)



Scale = 1:97.1

Plate Offsets (X, Y): [2:0-3-0,0-1-12], [14:0-3-0,0-1-12], [16:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.02	24-26	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.05	24-26	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.01	19	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS		Attic	-0.02	20-27	>999	360		
BCDL	10.0										Weight: 265 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* W2:2x6 SP No.2
OTHERS 2x4 SP 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.
JOINTS 1 Brace at Jt(s): 31, 23, 21, 25

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

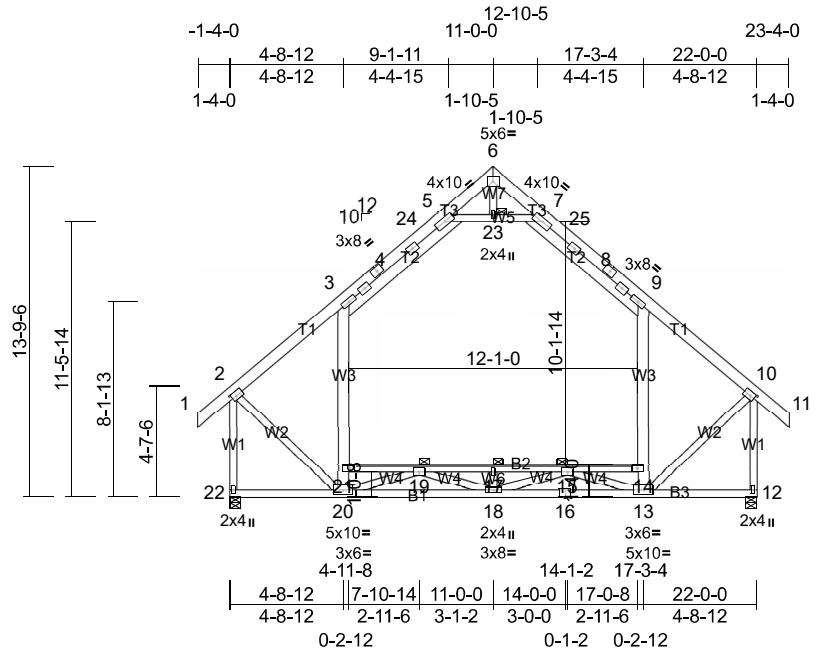
REACTIONS All bearings 22-0-0.
(lb) - Max Horiz 30=331 (LC 13)
Max Uplift All uplift 100 (lb) or less at joint(s) except 16=-404 (LC 11), 17=-466 (LC 10), 18=-282 (LC 30), 28=-282 (LC 29), 29=-471 (LC 11), 30=-410 (LC 10)
Max Grav All reactions 250 (lb) or less at joint (s) 18, 28 except 16=597 (LC 27), 17=483 (LC 13), 19=1136 (LC 28), 24=932 (LC 21), 26=1134 (LC 3), 29=488 (LC 12), 30=601 (LC 28)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-26/321, 5-6=-271/192, 7-8=-416/0, 8-9=-416/0, 10-11=-272/192, 11-12=-12/322, 2-30=-349/185, 14-16=-347/182
BOT CHORD 24-26=-234/526, 22-24=-10/394, 19-22=-10/394, 25-27=-306/399, 23-25=-34/299, 21-23=-34/299, 20-21=-316/408
WEBS 19-20=-942/0, 11-20=-903/0, 26-27=-942/0, 5-27=-903/0, 7-31=-26/478, 9-31=-26/478, 23-24=-353/0, 21-24=-698/74, 19-21=-514/78, 24-25=-718/136, 25-26=-580/162, 4-28=0/289, 12-18=0/289

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-4-0 to 1-8-0, Exterior(2N) 1-8-0 to 11-0-0, Corner(3R) 11-0-0 to 14-0-0, Exterior(2N) 14-0-0 to 23-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) All plates are 3x6 (=) MT20 unless otherwise indicated.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) Ceiling dead load (5.0 psf) on member(s). 5-7, 9-11, 7-31, 9-31; Wall dead load (5.0psf) on member(s).11-20, 5-27
12) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 25-27, 23-25, 21-23, 20-21
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 409 lb uplift at joint 30, 403 lb uplift at joint 16, 281 lb uplift at joint 28, 470 lb uplift at joint 29, 281 lb uplift at joint 18 and 465 lb uplift at joint 17.
14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	E2	Attic	3	1	Job Reference (optional)



Scale = 1:96.3

Plate Offsets (X, Y): [2:0-2-14,0-2-0], [10:0-2-14,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.18	17	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.32	17	>819	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.05	12	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS		Attic	-0.11	14-21	>999	360		
BCDL	10.0										Weight: 249 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* T3:2x6 SP DSS
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* W3:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-3-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-6-5 oc bracing.
JOINTS 1 Brace at Jt(s): 23, 17, 15, 19

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

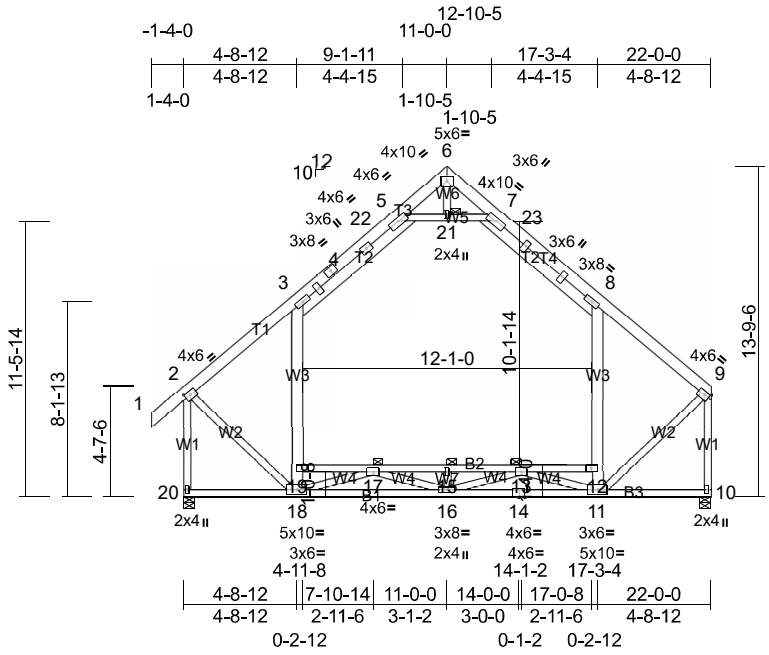
REACTIONS (lb/size) 12=1070/0-5-8, (min. 0-1-13), 22=1070/0-5-8, (min. 0-1-13)
Max Horiz 22=331 (LC 13)
Max Grav 12=1553 (LC 27), 22=1553 (LC 28)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1056/3, 3-4=-840/66, 4-24=-680/98, 5-24=-663/108, 5-6=-62/437, 6-7=-62/437, 7-25=-664/109, 8-25=-682/98, 8-9=-842/66, 9-10=-1056/2, 2-22=-1528/0, 10-12=-1528/0
BOT CHORD 20-22=-313/305, 18-20=0/2323, 16-18=0/2315, 13-16=0/2315, 19-21=-258/294, 17-19=-2333/0, 15-17=-2333/0, 14-15=-277/313
WEBS 9-14=-133/396, 3-21=-133/396, 5-23=-1211/164, 7-23=-1211/164, 2-20=0/1019, 10-13=0/1019, 17-18=-321/0, 15-18=-37/692, 13-15=-1879/0, 18-19=-30/686, 19-20=-1879/0

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior (1) 14-0-0 to 23-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) All plates are 4x6 (=) MT20 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) Ceiling dead load (5.0 psf) on member(s). 3-5, 7-9, 5-23, 7-23; Wall dead load (5.0psf) on member(s).9-14, 3-21
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 19-21, 17-19, 15-17, 14-15
11) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	E3	Attic	3	1	Job Reference (optional)



Scale = 1:96.3

Plate Offsets (X, Y): [2:0-2-14,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.18	15-17	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.31	16-18	>835	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.05	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS		Attic	-0.11	12-19	>999	360		
BCDL	10.0										Weight: 245 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* T3,T4:2x6 SP DSS
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* W3:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-3-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-6-6 oc bracing.
JOINTS 1 Brace at Jt(s): 21, 17, 15, 13

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

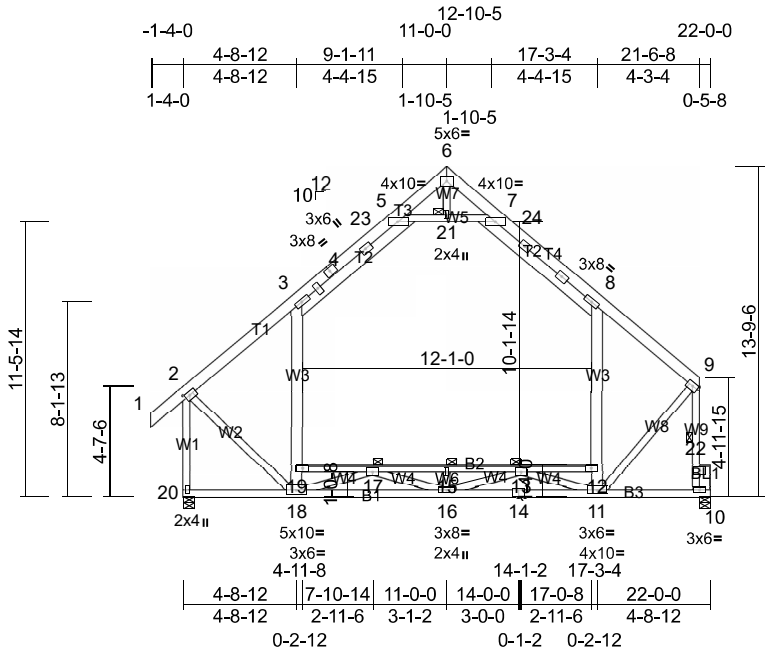
REACTIONS (lb/size) 10=1004/0-5-8, (min. 0-1-12), 20=1072/0-5-8, (min. 0-1-13)
Max Horiz 20=323 (LC 11)
Max Grav 10=1490 (LC 27), 20=1555 (LC 28)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1056/0, 3-4=-842/60, 4-22=-684/93, 5-22=-667/104, 5-6=-64/402, 6-7=-52/412, 7-23=-683/110, 8-23=-824/101, 8-9=-1046/0, 2-20=-1529/0, 9-10=-1466/0
BOT CHORD 18-20=-305/289, 16-18=0/2318, 14-16=0/2286, 11-14=0/2286, 17-19=-257/282, 15-17=-2323/0, 13-15=-2323/0, 12-13=-255/309
WEBS 8-12=-130/410, 3-19=-136/389, 5-21=-1189/153, 7-21=-1189/153, 2-18=0/1019, 9-11=0/1002, 17-18=-1860/0, 16-17=-22/666, 15-16=-321/0, 13-16=-31/697, 11-13=-1896/0

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior (1) 14-0-0 to 21-10-4 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
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Ceiling dead load (5.0 psf) on member(s). 3-5, 7-8, 5-21, 7-21; Wall dead load (5.0psf) on member(s).8-12, 3-19
9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 17-19, 15-17, 13-15, 12-13
10) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	E4	Attic	3	1	Job Reference (optional)



Scale = 1:96.3

Plate Offsets (X, Y): [2:0-2-14,0-2-0], [9:0-3-0,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.19	15-17	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.33	16-18	>791	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.05	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS		Attic	-0.12	12-19	>999	360		
BCDL	10.0										Weight: 247 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* W3:2x6 SP No.2
OTHERS 2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-6-3 oc bracing.
WEBS 1 Row at midpt 9-10
JOINTS 1 Brace at Jt(s): 21, 17, 15, 13

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

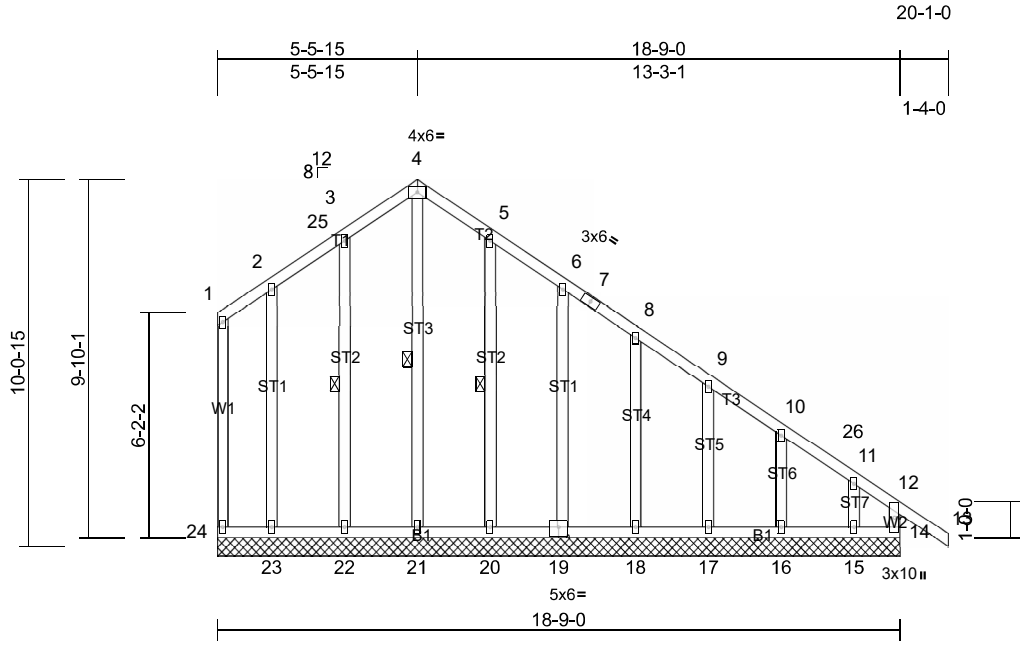
REACTIONS (lb/size) 10=991/0-5-8, (min. 0-1-12), 20=1062/0-5-8, (min. 0-1-13)
Max Horiz 20=327 (LC 11)
Max Grav 10=1480 (LC 27), 20=1540 (LC 28)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1044/0, 3-4=-817/57, 4-23=-660/90, 5-23=-643/100, 5-6=-57/362, 6-7=-48/360, 7-24=-668/109, 8-24=-809/99, 8-9=-1024/0, 2-20=-1512/0, 10-22=-1467/0, 9-22=-1477/0
BOT CHORD 18-20=-308/289, 16-18=0/2325, 14-16=0/2273, 11-14=0/2273, 17-19=-293/287, 15-17=-2341/0, 13-15=-2341/0, 12-13=-268/332
WEBS 8-12=-133/406, 3-19=-131/401, 5-21=-1094/150, 7-21=-1094/150, 2-18=0/992, 17-18=-1849/0, 16-17=-34/656, 15-16=-321/0, 13-16=-35/715, 11-13=-1907/0, 9-11=0/954

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior (1) 14-0-0 to 21-4-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) All plates are 4x6 (=) MT20 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) Ceiling dead load (5.0 psf) on member(s). 3-5, 7-8, 5-21, 7-21; Wall dead load (5.0psf) on member(s).8-12, 3-19
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 17-19, 15-17, 13-15, 12-13
11) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	F1E	Common Supported Gable	1	1	Job Reference (optional)



Scale = 1:63.3

Plate Offsets (X, Y): [19:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	14	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 150 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-21, 3-22, 5-20

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

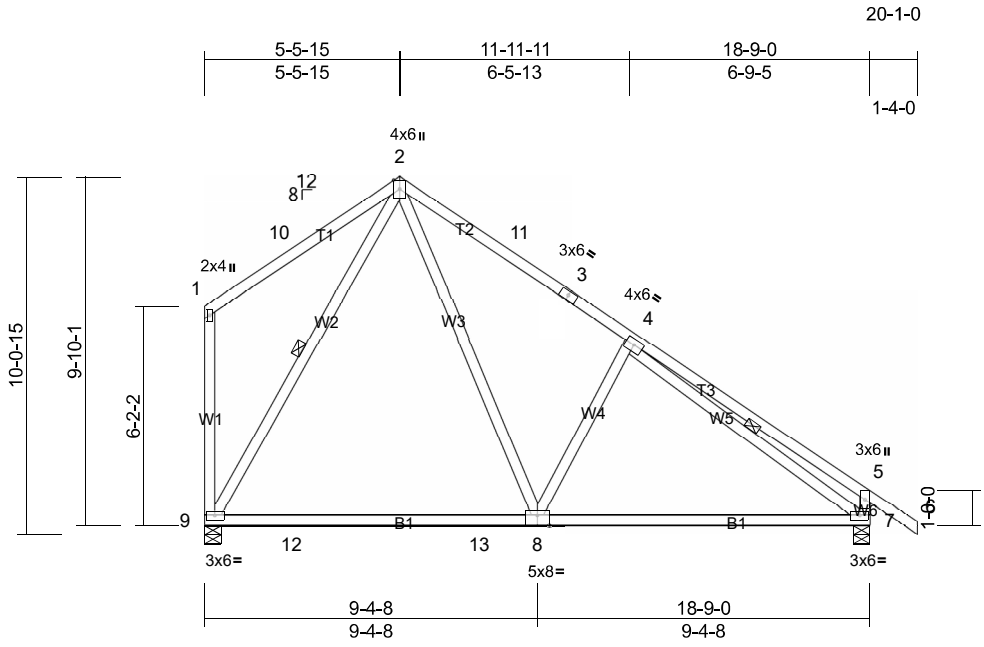
REACTIONS All bearings 18-9-0.
(lb) - Max Horiz 24=-265 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 16, 17, 18, 19, 20, 21, 22, 23, 24 except 14=-178 (LC 11), 15=-203 (LC 10)
Max Grav All reactions 250 (lb) or less at joint (s) 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 except 14=332 (LC 26)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-173/259, 4-5=-172/259, 11-12=-306/252, 12-14=-260/161
BOT CHORD 23-24=-185/281, 22-23=-185/281, 21-22=-185/281, 20-21=-185/281, 19-20=-185/281, 18-19=-183/280, 17-18=-183/280, 16-17=-183/280, 15-16=-183/280, 14-15=-183/280

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 7-10-15 to 10-10-15, Exterior(2N) 10-10-15 to 13-3-2, Corner(3R) 13-3-2 to 16-3-2, Exterior(2N) 16-3-2 to 27-10-3 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) All plates are 2x4 (||) MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * 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.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 24, 21, 22, 23, 20, 19, 18, 17, 16 except (jt=lb) 14=178, 15=202.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	F2	Common	4	1	Job Reference (optional)



Scale = 1:65

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.32	8-9	>694	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.47	8-9	>474	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 124 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-7, 2-9

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

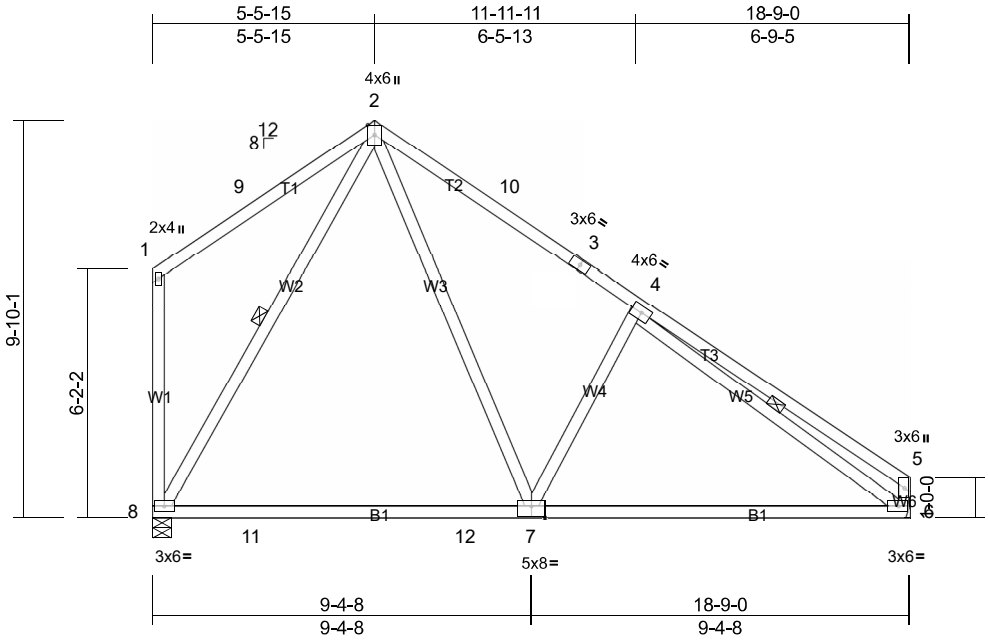
REACTIONS (lb/size) 7=649/0-5-8, (min. 0-1-8), 9=580/0-5-8, (min. 0-1-8)
Max Horiz 9=-265 (LC 12)
Max Uplift 7=-99 (LC 15), 9=-95 (LC 15)
Max Grav 7=921 (LC 27), 9=885 (LC 27)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-726/191, 3-11=-727/171, 3-4=-828/152, 4-5=-470/173, 5-7=-474/162
BOT CHORD 9-12=-25/416, 12-13=-25/416, 8-13=-25/416, 7-8=-18/743
WEBS 4-7=-613/20, 2-9=-701/143, 2-8=-131/771, 4-8=-329/207

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 7-10-15 to 10-10-15, Interior (1) 10-10-15 to 13-3-2, Exterior(2R) 13-3-2 to 16-3-2, Interior (1) 16-3-2 to 27-10-3 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
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 99 lb uplift at joint 7 and 95 lb uplift at joint 9.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	F3	Common	5	1	Job Reference (optional)



Scale = 1:57.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.32	7-8	>694	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.47	7-8	>474	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.01	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 122 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-11-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-6, 2-8

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

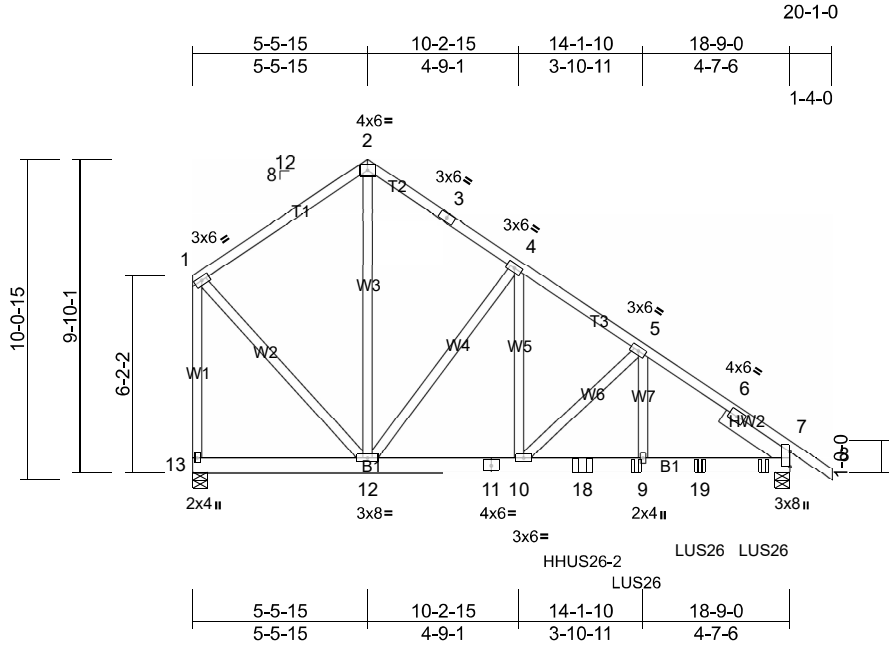
REACTIONS (lb/size) 6=582/ Mechanical, 8=582/0-5-8, (min. 0-1-8)
Max Horiz 8=-252 (LC 12)
Max Uplift 6=-77 (LC 15), 8=-95 (LC 15)
Max Grav 6=836 (LC 26), 8=888 (LC 26)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-733/194, 3-10=-736/174, 3-4=-837/155, 4-5=-427/130, 5-6=-358/111
BOT CHORD 8-11=-33/407, 11-12=-33/407, 7-12=-33/407, 6-7=-62/742
WEBS 4-6=-644/43, 2-8=-704/143, 2-7=-134/782, 4-7=-342/211

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 7-10-15 to 10-10-15, Interior (1) 10-10-15 to 13-3-2, Exterior(2R) 13-3-2 to 16-3-2, Interior (1) 16-3-2 to 26-4-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 6 and 95 lb uplift at joint 8.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	F4G	Common Girder	1	2	Job Reference (optional)



Scale = 1:72.4

Plate Offsets (X, Y): [7:Edge,0-0-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.03	9-10	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.06	9-10	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 302 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
SLIDER Right 2x6 SP No.2 -- 2-6-0

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

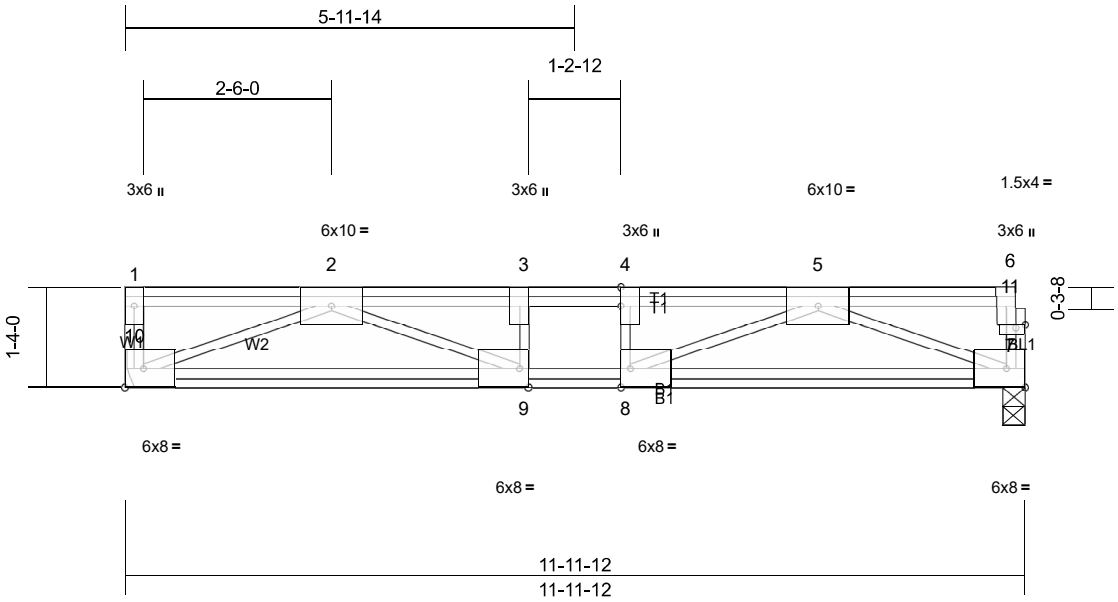
REACTIONS (lb/size) 7=2255/0-5-8, (min. 0-1-8), 13=948/0-5-8, (min. 0-1-8)
Max Horiz 13=-257 (LC 8)
Max Uplift 7=-357 (LC 11), 13=-178 (LC 11)
Max Grav 7=2398 (LC 2), 13=1136 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-727/197, 2-3=-642/178, 3-4=-724/162, 4-5=-1503/288, 5-6=-2420/406, 6-7=-1319/149, 1-13=-1082/195
BOT CHORD 11-12=-88/1223, 10-11=-88/1223, 10-18=-243/1954, 9-18=-243/1954, 9-19=-243/1954, 7-19=-243/1954
WEBS 2-12=-134/464, 4-12=-1150/317, 1-12=-109/773, 4-10=-220/1068, 5-10=-1010/233, 5-9=-170/1073

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
7) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 178 lb uplift at joint 13 and 357 lb uplift at joint 7.
11) Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 4-10d Truss) or equivalent at 20-0-1 from the left end to connect truss(es) BXR (2 ply 2x6 SP) to back face of bottom chord.
12) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 21-8-7 from the left end to 25-8-7 to connect truss(es) H3 (1 ply 2x4 SP), H2 (1 ply 2x4 SP), H1 (1 ply 2x4 SP) 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: 1-2=-43, 2-8=-43, 13-14=-20
Concentrated Loads (lb)
Vert: 9=-452, 16=-559, 18=-451, 19=-510

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	FG1	Floor Girder	1	1	Job Reference (optional)



Scale = 1:30.7

Plate Offsets (X, Y): [4:0-3-0,Edge], [8:0-1-8,Edge], [9:0-1-8,Edge], [11:0-1-8,0-0-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.62	Vert(LL)	-0.15	8-9	>921	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.21	8-9	>673	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.04	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 94 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

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

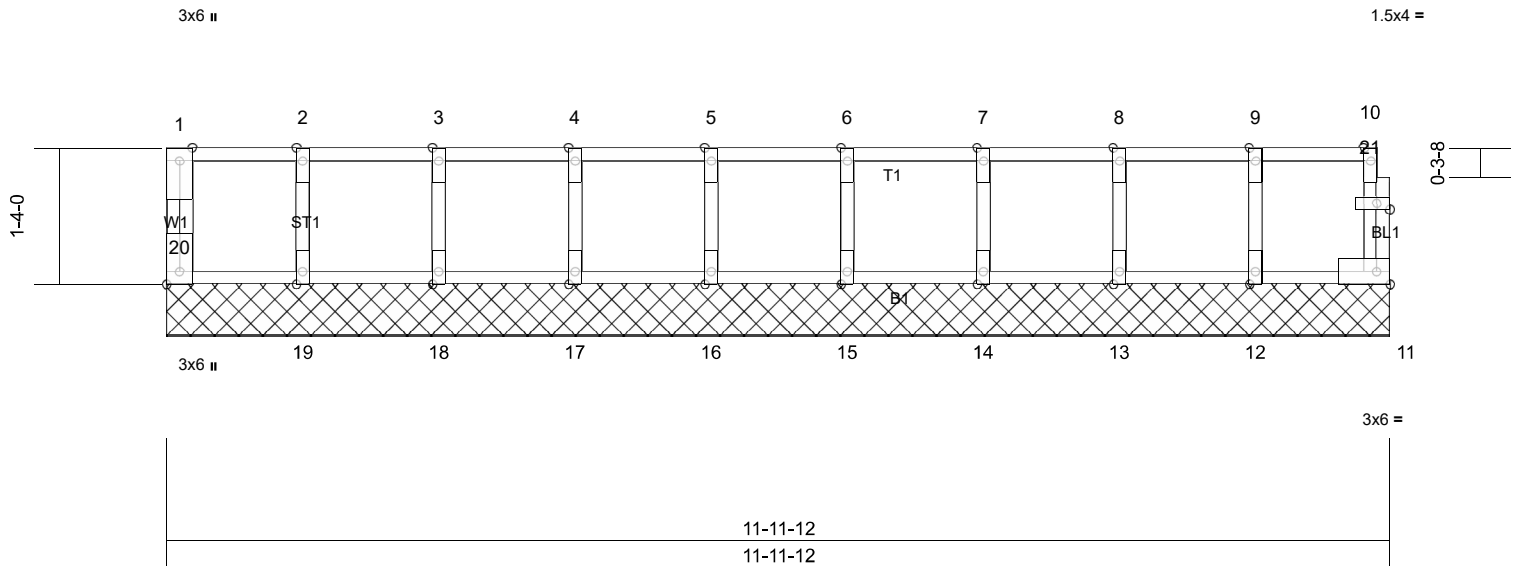
REACTIONS (lb/size) 7=2158/0-3-8, (min. 0-1-8), 10=2158/ Mechanical

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-388/0, 7-11=-381/0, 6-11=-381/0, 2-3=-5759/0, 3-4=-5759/0, 4-5=-5759/0
BOT CHORD 9-10=0/4209, 8-9=0/5759, 7-8=0/4380
WEBS 5-7=-4674/0, 2-10=-4554/0, 5-8=0/1860, 2-9=0/1954, 3-9=-631/0, 4-8=-665/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 7-10=-10, 1-6=-360

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	FL1	Floor Supported Gable	1	1	Job Reference (optional)



Scale = 1:22.6

Plate Offsets (X, Y): [20:Edge,0-1-8], [21:0-1-8,0-0-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 55 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

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

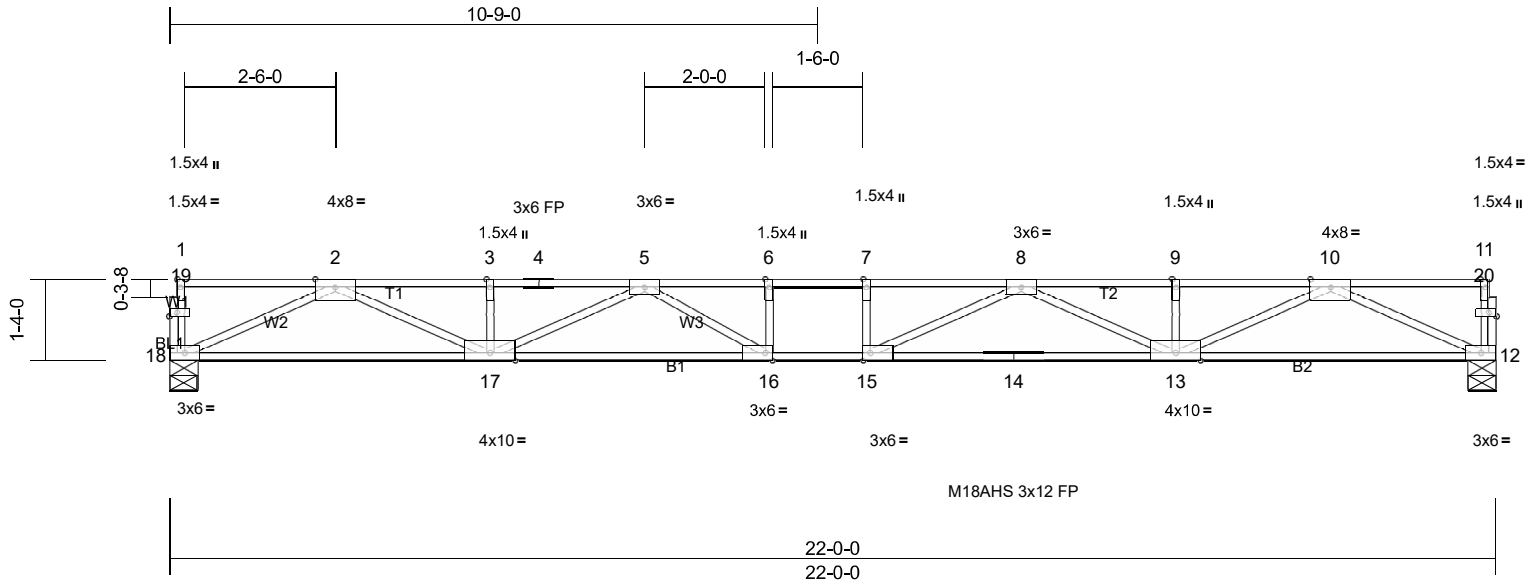
REACTIONS All bearings 11-11-12.
(lb) - Max Grav All reactions 250 (lb) or less at joint (s) 11, 12, 13, 14, 15, 16, 17, 18, 19, 20

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

NOTES
1) All plates are 1.5x4 (||) MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	FT1	Floor	3	1	Job Reference (optional)



Scale = 1:38.2

Plate Offsets (X, Y): [1:Edge,0-0-12], [15:0-1-8,Edge], [16:0-1-8,Edge], [19:0-1-8,0-0-12], [20:0-1-8,0-0-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.83	Vert(LL)	-0.49	13-15	>532	480	M18AHS	186/179
TCDL	10.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.68	13-15	>383	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.10	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 109 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat) *Except* T2:2x4 SP No.1 (flat)
BOT CHORD 2x4 SP DSS(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

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.

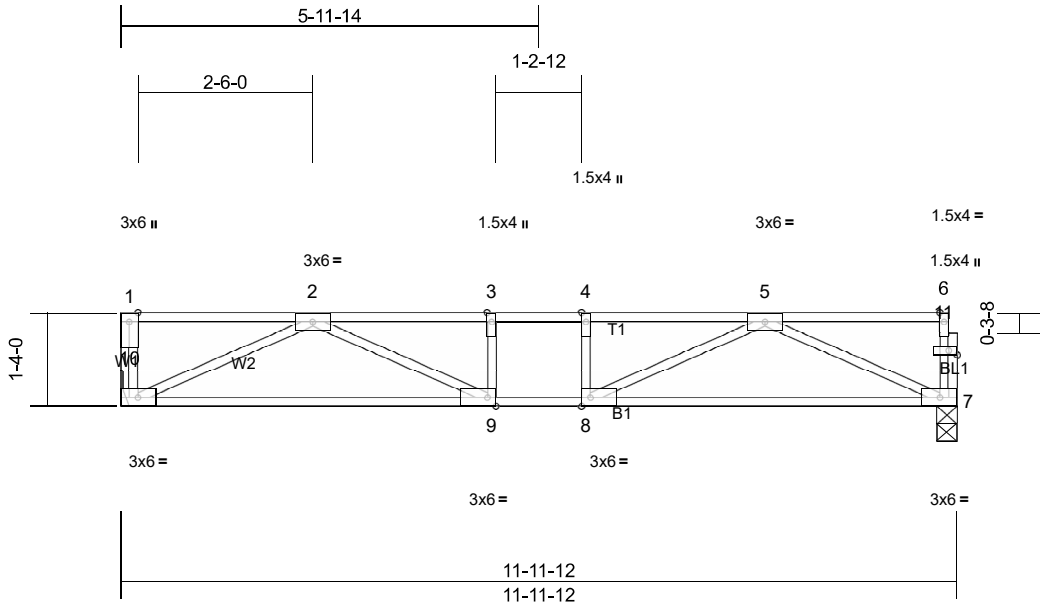
REACTIONS (lb/size) 12=1190/0-5-8, (min. 0-1-8), 18=1190/0-5-8, (min. 0-1-8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3955/0, 3-4=-3955/0, 4-5=-3955/0, 5-6=-5364/0, 6-7=-5364/0, 7-8=-5364/0, 8-9=-3959/0, 9-10=-3959/0
BOT CHORD 17-18=0/2316, 16-17=0/4955, 15-16=0/5364, 14-15=0/4961, 13-14=0/4961, 12-13=0/2319
WEBS 10-12=-2548/0, 2-18=-2543/0, 10-13=0/1813, 2-17=0/1813, 8-13=-1107/0, 5-17=-1106/0, 8-15=-97/838, 5-16=-72/833, 6-16=-286/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	FT2	Floor	8	1	Job Reference (optional)



Scale = 1:33

Plate Offsets (X, Y): [8:0-1-8,Edge], [9:0-1-8,Edge], [11:0-1-8,0-0-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.11	7-8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.18	9-10	>773	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 61 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

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

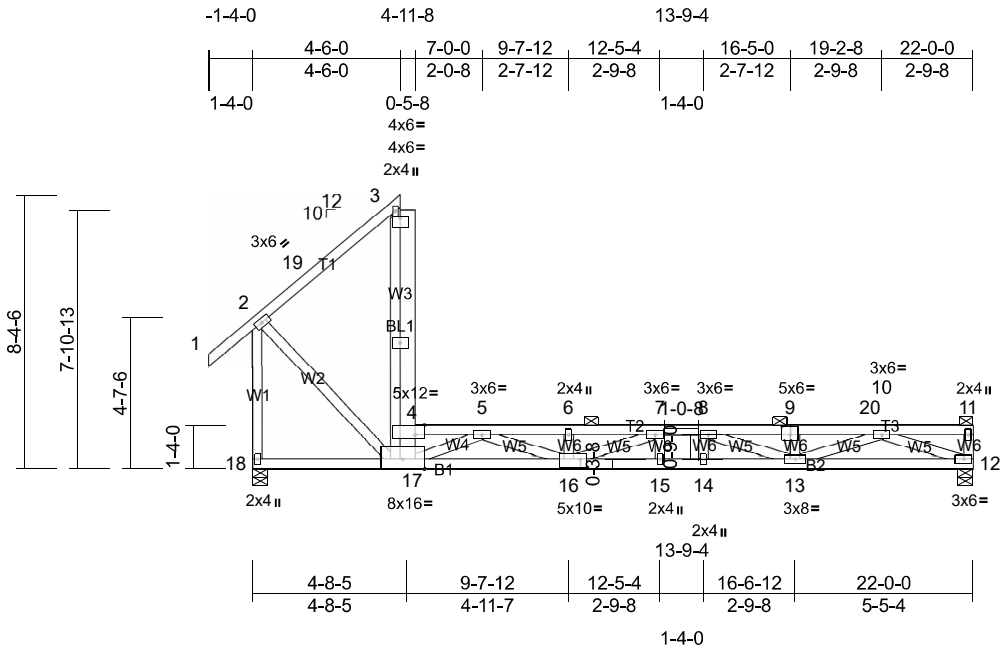
REACTIONS (lb/size) 7=639/0-3-8, (min. 0-1-8), 10=645/ Mechanical

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1583/0, 3-4=-1583/0, 4-5=-1583/0
BOT CHORD 9-10=0/1128, 8-9=0/1583, 7-8=0/1126
WEBS 5-7=-1234/0, 2-10=-1242/0, 5-8=0/581, 2-9=0/581

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	FTR1	Half Hip	5	2	Job Reference (optional)



Scale = 1:70.4

Plate Offsets (X, Y): [3:0-3-0,0-0-9], [4:0-3-8,Edge], [9:0-3-0,0-3-0], [16:0-2-4,0-3-0]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	0.24	16-17	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.44	16	>587	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.04	12	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 284 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 0-0-0 oc purlins (6-0-0 max.): 4-17, 4-11.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

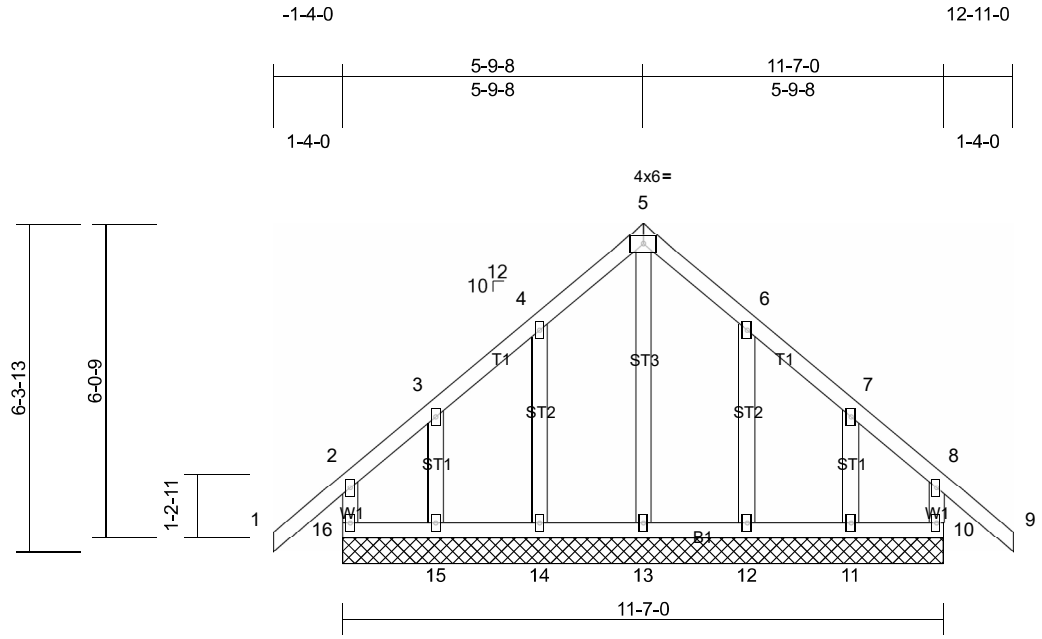
REACTIONS (lb/size) 12=589/0-5-8, (min. 0-1-8), 18=797/0-5-8, (min. 0-1-8)
Max Horiz 18=248 (LC 15)
Max Uplift 12=-151 (LC 15), 18=-100 (LC 11)
Max Grav 12=647 (LC 2), 18=914 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-19=-524/90, 3-19=-425/110, 4-5=-3100/1193, 5-6=-3725/1116, 6-7=-3725/1116, 7-8=-3389/920, 8-9=-2531/621, 9-20=-2520/618, 10-20=-2520/618, 2-18=-784/91
BOT CHORD 17-18=-230/259, 16-17=-1209/3508, 15-16=-928/3389, 14-15=-928/3389, 13-14=-928/3389, 12-13=-363/1425
WEBS 2-17=-27/507, 5-16=-62/262, 7-16=-209/488, 10-12=-1470/379, 10-13=-282/1177, 8-13=-916/319, 5-17=-525/100

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 21-10-4 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
5) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
7) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
8) Provide adequate drainage to prevent water ponding.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 151 lb uplift at joint 12 and 100 lb uplift at joint 18.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 372 lb down and 60 lb up at 4-7-0 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: 1-2=-29, 2-3=-29, 4-11=-35, 12-18=-13
Concentrated Loads (lb)
Vert: 3=-315

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	G1E	Common Supported Gable	1	1	Job Reference (optional)



Scale = 1:44.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 74 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

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

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

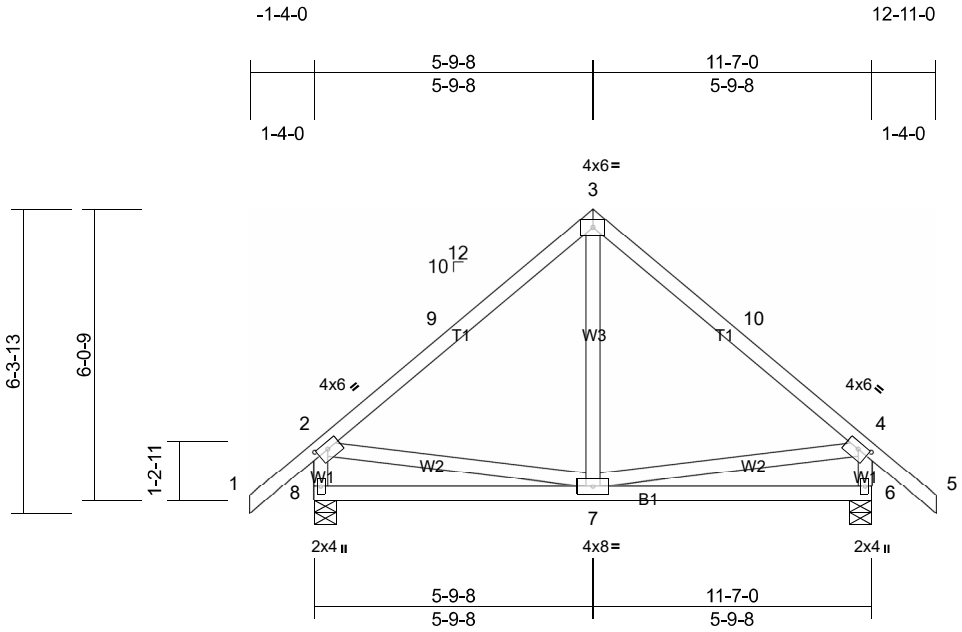
REACTIONS All bearings 11-7-0.
(lb) - Max Horiz 16=-148 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 10, 11, 12, 14, 15, 16
Max Grav All reactions 250 (lb) or less at joint (s) 10, 11, 12, 13, 14, 15, 16

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-4-0 to 1-9-8, Exterior(2N) 1-9-8 to 5-9-8, Corner(3R) 5-9-8 to 8-9-8, Exterior(2N) 8-9-8 to 12-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) All plates are 2x4 (||) MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * 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.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 16, 10, 14, 15, 12, 11.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	G2	Common	1	1	Job Reference (optional)



Scale = 1:47.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.02	7-8	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.04	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 72 lb	FT = 20%

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

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

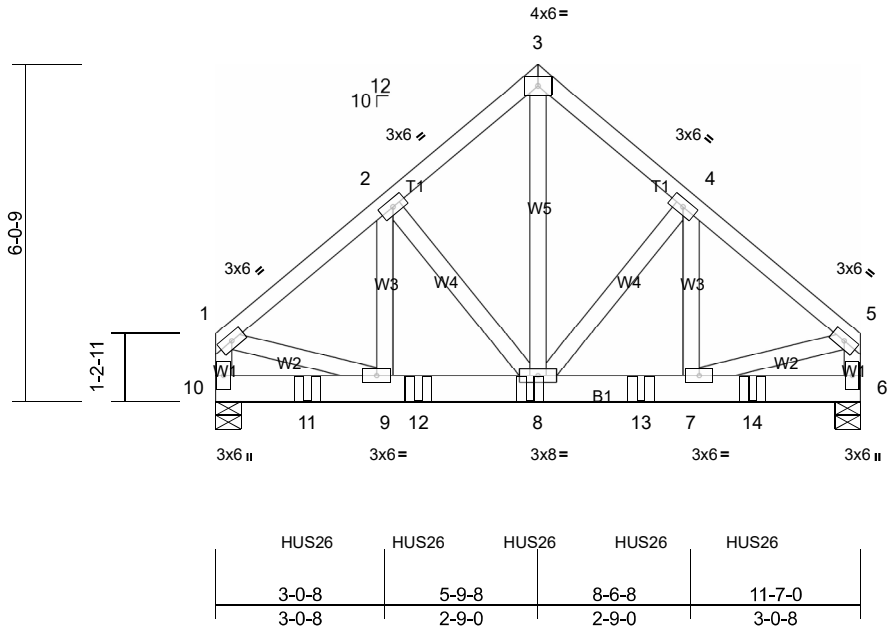
REACTIONS (lb/size) 6=420/0-5-8, (min. 0-1-8), 8=420/0-5-8, (min. 0-1-8)
Max Horiz 8=-148 (LC 12)
Max Uplift 6=-61 (LC 15), 8=-61 (LC 14)
Max Grav 6=540 (LC 2), 8=540 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-428/101, 3-9=-310/124, 3-10=-310/124, 4-10=-428/101, 2-8=-490/168, 4-6=-490/168
BOT CHORD 7-8=-157/250

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 5-9-8, Exterior(2R) 5-9-8 to 8-9-8, Interior (1) 8-9-8 to 12-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 61 lb uplift at joint 8 and 61 lb uplift at joint 6.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	G3G	Common Girder	1	2	Job Reference (optional)



Scale = 1:41.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.02	7-8	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.03	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 177 lb	FT = 20%

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

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

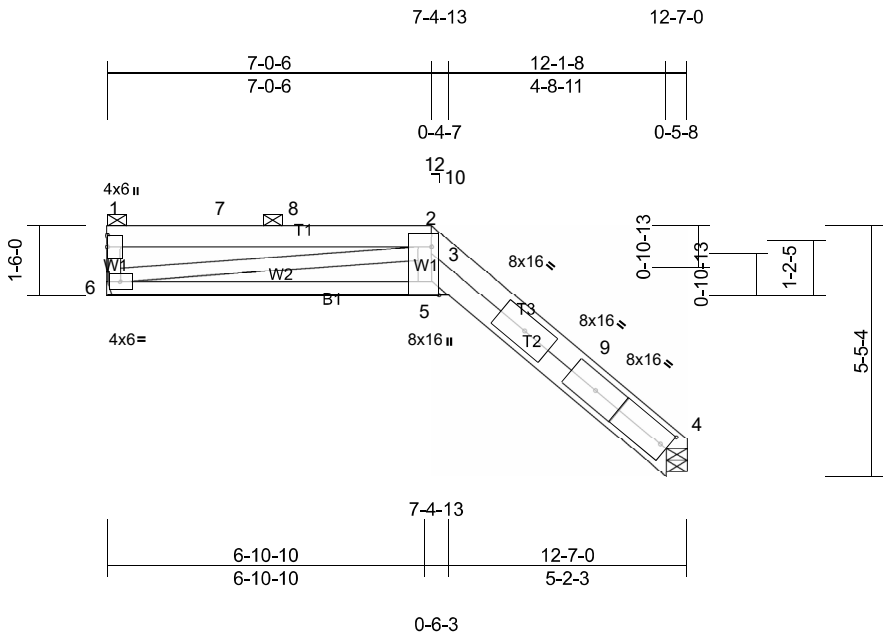
REACTIONS (lb/size) 6=1733/0-5-8, (min. 0-1-8), 10=1791/0-5-8, (min. 0-1-8)
Max Horiz 10=-121 (LC 31)
Max Uplift 6=-242 (LC 11), 10=-250 (LC 10)
Max Grav 6=2398 (LC 21), 10=2483 (LC 22)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2389/265, 2-3=-1868/255, 3-4=-1868/255, 4-5=-2401/266, 1-10=-2086/219, 5-6=-2104/221
BOT CHORD 10-11=-129/279, 9-11=-129/279, 9-12=-201/1852, 8-12=-201/1852, 8-13=-161/1814, 7-13=-161/1814
WEBS 1-9=-151/1689, 5-7=-155/1722, 2-9=-75/678, 2-8=-638/139, 3-8=-273/2179, 4-8=-654/141, 4-7=-78/698

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 250 lb uplift at joint 10 and 242 lb uplift at joint 6.
10) Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-7-12 from the left end to 9-7-12 to connect truss(es) F3 (1 ply 2x4 SP) to back face of bottom chord.
11) 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: 1-3=-43, 3-5=-43, 6-10=-20
Concentrated Loads (lb)
Vert: 8=-562, 11=-562, 12=-562, 13=-562, 14=-562

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	H1	Roof Special	1	1	Job Reference (optional)



Scale = 1:50

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.10	3-5	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.22	3-5	>673	180		
TCDL	10.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.20	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 73 lb	FT = 20%

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

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

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

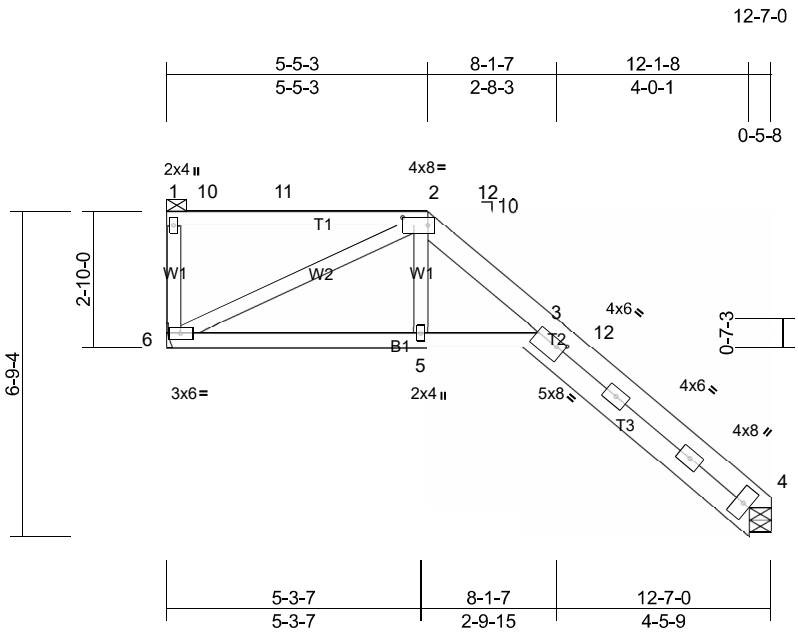
REACTIONS (lb/size) 4=425/0-5-8, (min. 0-1-8), 6=438/ Mechanical
Max Horiz 6=-131 (LC 17)
Max Uplift 4=-63 (LC 17), 6=-55 (LC 12)
Max Grav 4=547 (LC 38), 6=577 (LC 37)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-304/107, 2-3=-495/121, 4-9=-316/138
BOT CHORD 5-6=-128/1459, 3-5=-193/1601
WEBS 2-6=-1245/277, 2-5=-487/156

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 7-0-6, Exterior(2R) 7-0-6 to 10-0-6, Interior (1) 10-0-6 to 12-3-5 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
10) Bearing at joint(s) 4 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 55 lb uplift at joint 6 and 63 lb uplift at joint 4.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	H2	Roof Special	1	1	Job Reference (optional)



Scale = 1:48

Plate Offsets (X, Y): [2:0-6-4,0-2-0], [3:0-1-14,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.17	7-9	>837	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.32	7-9	>451	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.29	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 71 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* T1:2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

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

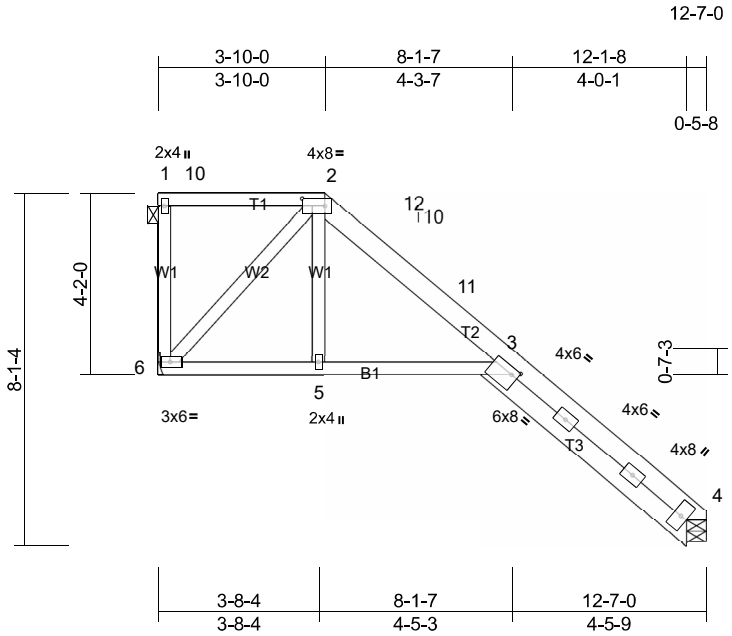
REACTIONS (lb/size) 4=418/0-5-8, (min. 0-1-8), 6=429/ Mechanical
Max Horiz 6=-154 (LC 17)
Max Uplift 4=-70 (LC 17), 6=-51 (LC 12)
Max Grav 4=595 (LC 38), 6=530 (LC 37)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-616/139, 4-12=-368/143
BOT CHORD 5-6=0/627, 3-5=0/607
WEBS 2-6=-695/180, 2-5=-13/368

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 5-5-3, Exterior(2R) 5-5-3 to 8-5-3, Interior (1) 8-5-3 to 12-3-5 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
10) Bearing at joint(s) 4 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 70 lb uplift at joint 4 and 51 lb uplift at joint 6.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	H3	Roof Special	1	1	Job Reference (optional)



Scale = 1:52.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.24	9	>607	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.41	5-9	>351	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.34	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 77 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* T2:2x6 SP DSS, T3:2x6 SP No.2
BOT CHORD 2x4 SP DSS
WEBS 2x4 SP No.2

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

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

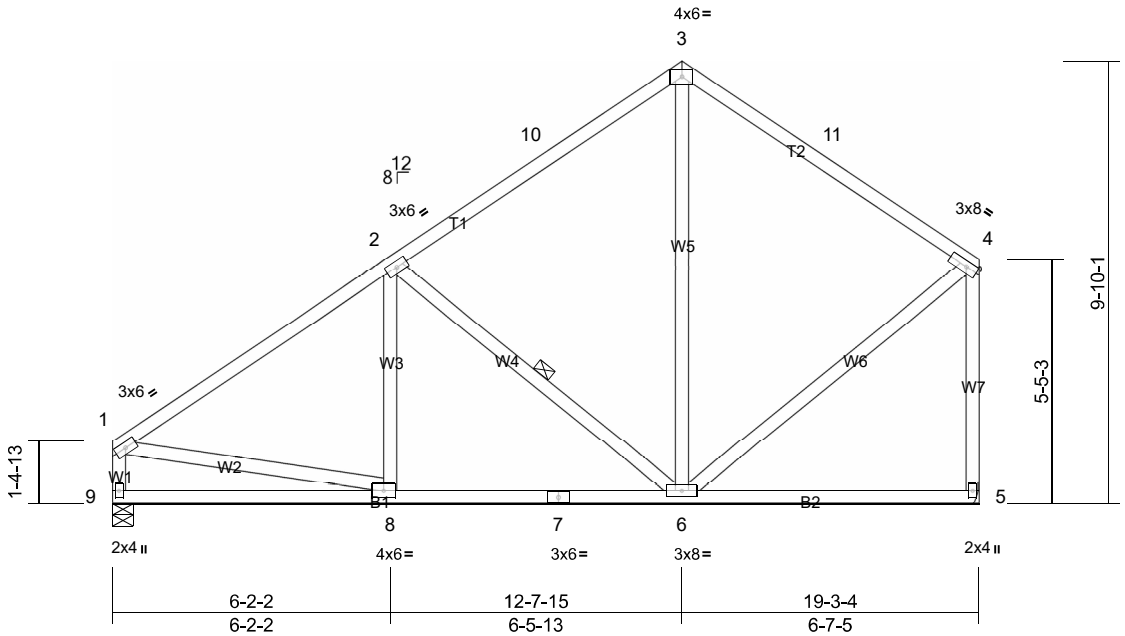
REACTIONS (lb/size) 4=412/0-5-8, (min. 0-1-8), 6=419/ Mechanical
Max Horiz 6=-182 (LC 12)
Max Uplift 4=-73 (LC 17), 6=-49 (LC 12)
Max Grav 4=629 (LC 38), 6=490 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-395/96, 3-11=-425/76, 3-4=-391/152
BOT CHORD 5-6=0/408, 3-5=0/399
WEBS 2-6=-587/174, 2-5=-20/307

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 3-10-0, Exterior(2R) 3-10-0 to 7-0-10, Interior (1) 7-0-10 to 12-3-5 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
10) Bearing at joint(s) 4 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 73 lb uplift at joint 4 and 49 lb uplift at joint 6.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	I1	Common	2	1	Job Reference (optional)



Scale = 1:51.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.05	5-6	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.09	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 126 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-7-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-6

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

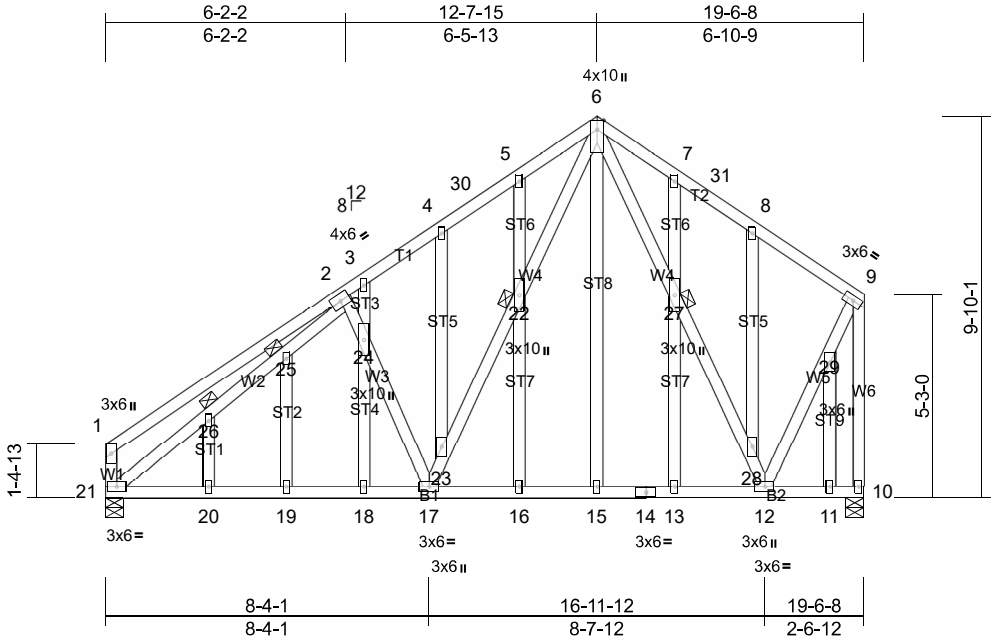
REACTIONS (lb/size) 5=599/ Mechanical, 9=599/0-5-8, (min. 0-1-8)
Max Horiz 9=244 (LC 11)
Max Uplift 5=-86 (LC 14), 9=-78 (LC 14)
Max Grav 5=759 (LC 2), 9=759 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-878/121, 2-10=-552/139, 3-10=-435/159, 3-11=-424/147, 4-11=-539/127, 1-9=-703/94, 4-5=-701/120
BOT CHORD 8-9=-247/280, 7-8=-210/707, 6-7=-210/707
WEBS 4-6=-71/452, 2-6=-415/174, 1-8=-31/570

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-8-15 to 3-8-15, Interior (1) 3-8-15 to 13-3-1, Exterior(2R) 13-3-1 to 16-3-1, Interior (1) 16-3-1 to 19-8-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain load requirements specific to the use of this truss component.
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 78 lb uplift at joint 9 and 86 lb uplift at joint 5.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	I2E	Common	1	1	Job Reference (optional)



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.04	19-20	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.10	19-20	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.01	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 205 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-11-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 22, 25, 26, 27

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

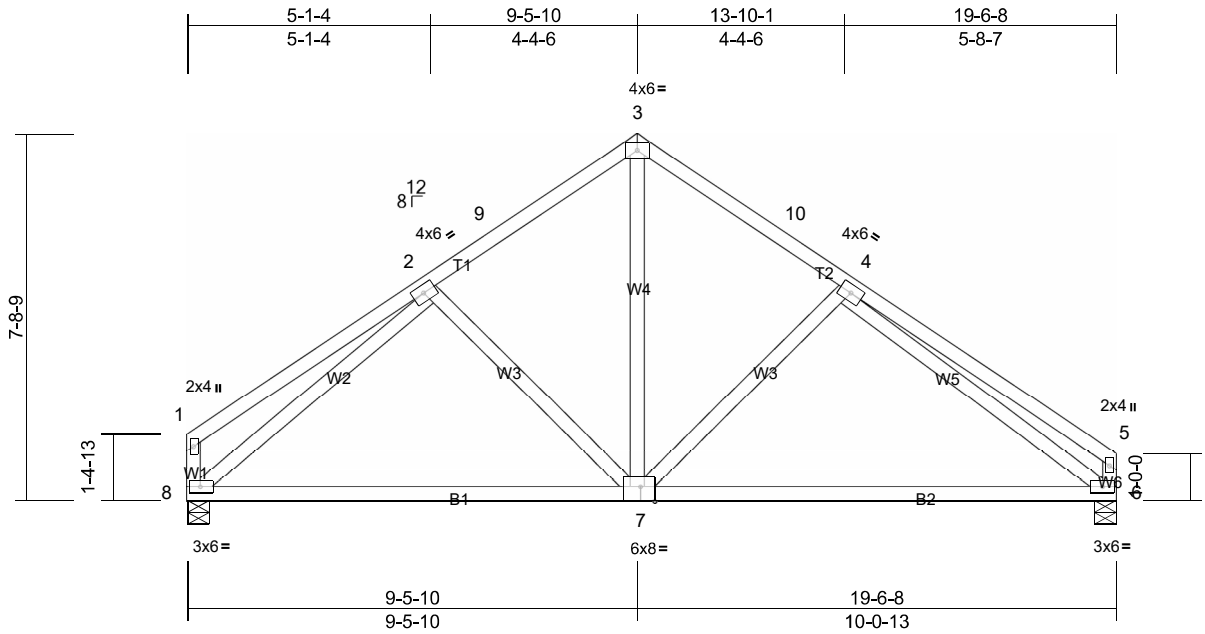
REACTIONS (lb/size) 10=607/0-5-8, (min. 0-1-8), 21=607/0-5-8, (min. 0-1-8)
Max Horiz 21=240 (LC 11)
Max Uplift 10=-82 (LC 14), 21=-80 (LC 14)
Max Grav 10=770 (LC 2), 21=770 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-302/111, 2-3=-788/159, 3-4=-699/168, 4-30=-702/190, 5-30=-659/196, 5-6=-663/240, 6-7=-338/206, 7-31=-332/173, 8-31=-358/169, 8-9=-345/135, 1-21=-286/101, 9-10=-686/96
BOT CHORD 20-21=-205/700, 19-20=-205/700, 18-19=-205/700, 17-18=-205/700, 16-17=-114/392, 15-16=-114/392, 14-15=-115/395, 13-14=-115/395, 12-13=-115/395
WEBS 6-27=-318/68, 27-28=-437/106, 12-29=-102/598, 9-29=-77/508, 17-23=-144/355, 22-23=-182/473, 6-22=-189/488, 2-24=-264/152, 17-24=-290/133, 21-26=-631/42, 25-26=-636/43, 2-25=-665/55

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-8-15 to 3-8-15, Interior (1) 3-8-15 to 13-1-5, Exterior(2R) 13-1-5 to 16-1-5, Interior (1) 16-1-5 to 19-11-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) All plates are 2x4 (||) MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 80 lb uplift at joint 21 and 82 lb uplift at joint 10.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	I3	Common	2	1	Job Reference (optional)



Scale = 1:48.5

Plate Offsets (X, Y): [7:0-3-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.19	6-7	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.39	6-7	>595	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.02	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 114 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP 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 2-2-0 oc bracing.

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

REACTIONS (lb/size) 6=607/0-5-8, (min. 0-1-8), 8=607/0-5-8, (min. 0-1-8)
Max Horiz 8=-159 (LC 12)
Max Uplift 6=-79 (LC 15), 8=-75 (LC 14)
Max Grav 6=770 (LC 2), 8=770 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-722/111, 3-9=-638/138, 3-10=-643/142, 4-10=-730/115, 4-5=-350/99, 5-6=-301/90
BOT CHORD 7-8=-98/659, 6-7=-67/694
WEBS 2-8=-715/82, 4-6=-614/65, 3-7=-82/495

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-8-15 to 3-8-15, Interior (1) 3-8-15 to 10-0-13, Exterior(2R) 10-0-13 to 13-0-13, Interior (1) 13-0-13 to 19-11-15 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 75 lb uplift at joint 8 and 79 lb uplift at joint 6.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	I4	Common	3	1	Job Reference (optional)

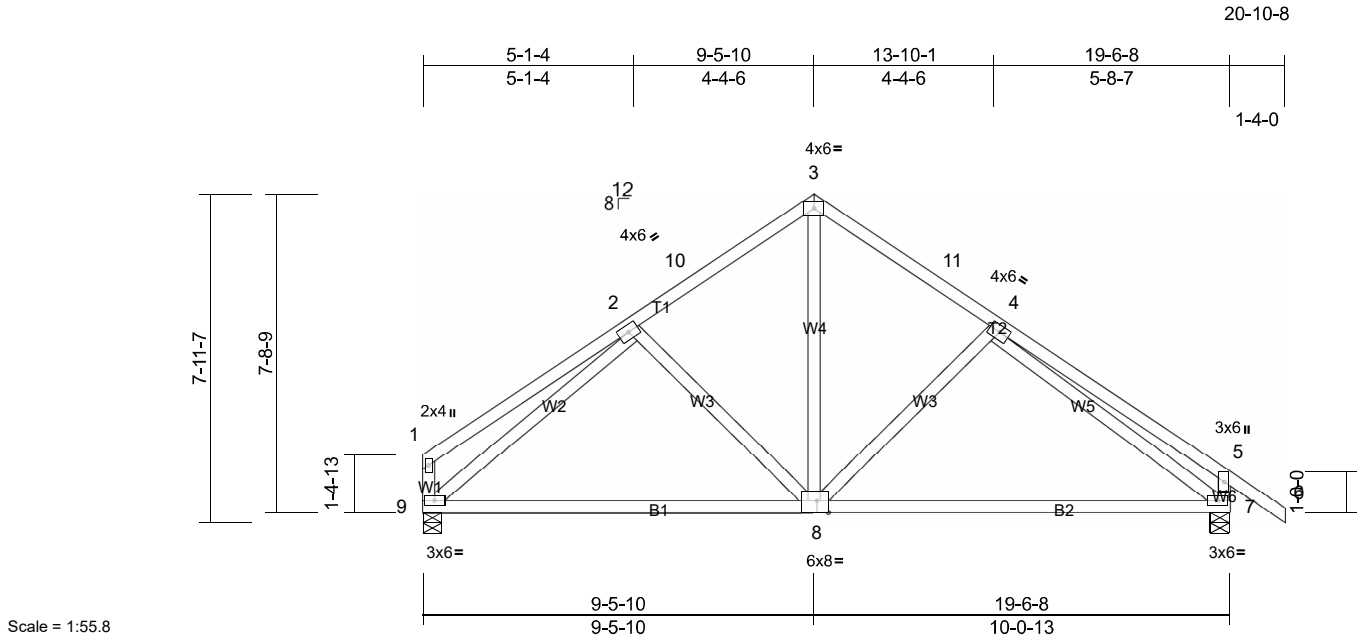


Plate Offsets (X, Y): [8:0-3-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.19	7-8	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.39	7-8	>595	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.02	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 117 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP 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 2-2-0 oc bracing.

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

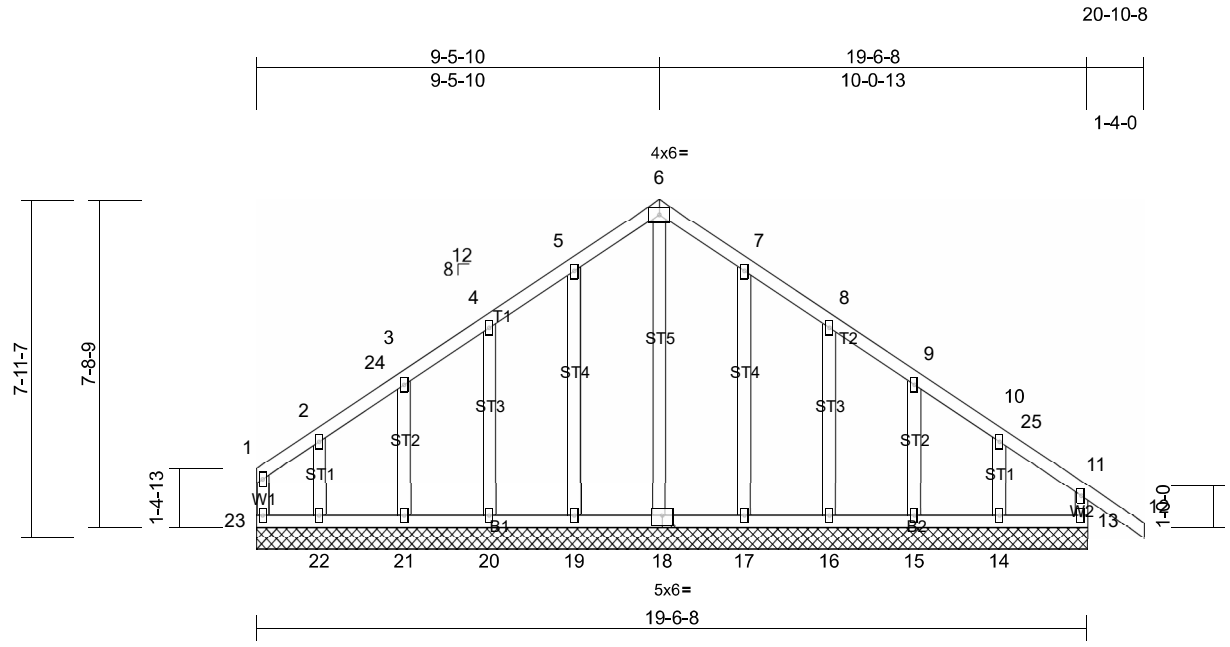
REACTIONS (lb/size) 7=674/0-5-8, (min. 0-1-8), 9=605/0-5-8, (min. 0-1-8)
Max Horiz 9=-172 (LC 12)
Max Uplift 7=-101 (LC 15), 9=-75 (LC 14)
Max Grav 7=862 (LC 2), 9=767 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-717/111, 3-10=-633/138, 3-11=-639/140, 4-11=-723/113, 4-5=-373/133, 5-7=-407/136
BOT CHORD 8-9=-85/666, 7-8=-22/679
WEBS 2-9=-710/82, 4-7=-587/46, 3-8=-78/491

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-8-15 to 3-8-15, Interior (1) 3-8-15 to 10-0-13, Exterior(2R) 10-0-13 to 13-0-13, Interior (1) 13-0-13 to 21-5-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 75 lb uplift at joint 9 and 101 lb uplift at joint 7.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	I5E	Common Supported Gable	1	1	Job Reference (optional)



Scale = 1:54.2

Plate Offsets (X, Y): [18:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.00	13	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 125 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP 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.

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

REACTIONS All bearings 19-6-8.
(lb) - Max Horiz 23=-172 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 13, 14, 15, 16, 17, 19, 20, 21, 22, 23
Max Grav All reactions 250 (lb) or less at joint (s) 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-8-15 to 3-8-15, Exterior(2N) 3-8-15 to 10-0-13, Corner(3R) 10-0-13 to 13-0-13, Exterior(2N) 13-0-13 to 21-5-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) All plates are 2x4 (||) MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * 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.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 23, 13, 19, 20, 21, 22, 17, 16, 15, 14.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	J1	Jack-Open	1	1	Job Reference (optional)

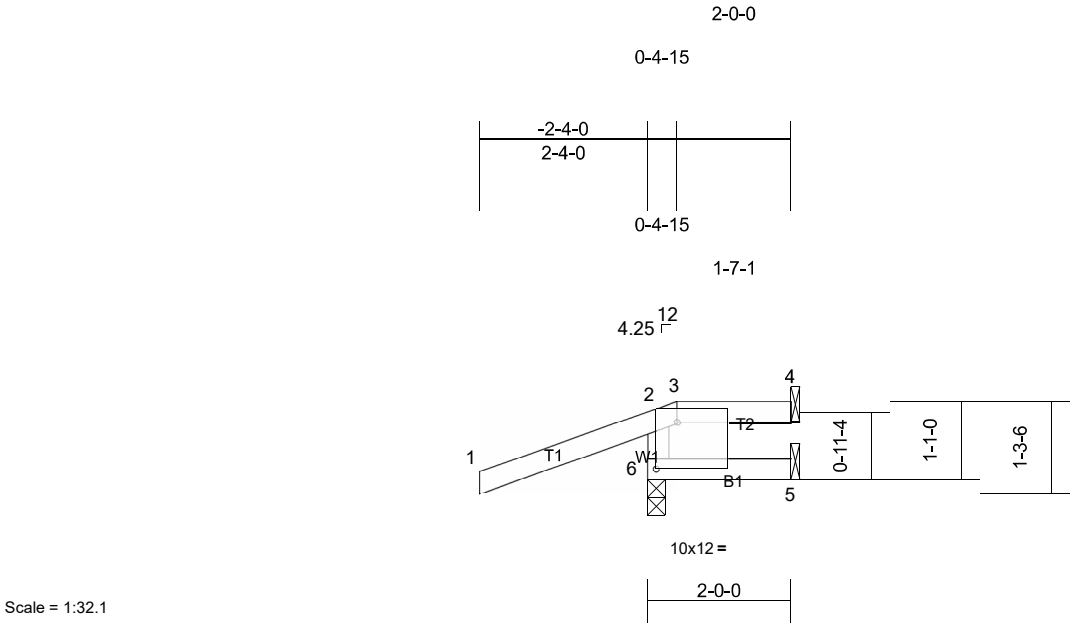


Plate Offsets (X, Y): [6:0-3-8,0-7-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	0.00	5-6	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	0.00	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 10 lb	FT = 20%

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

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

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

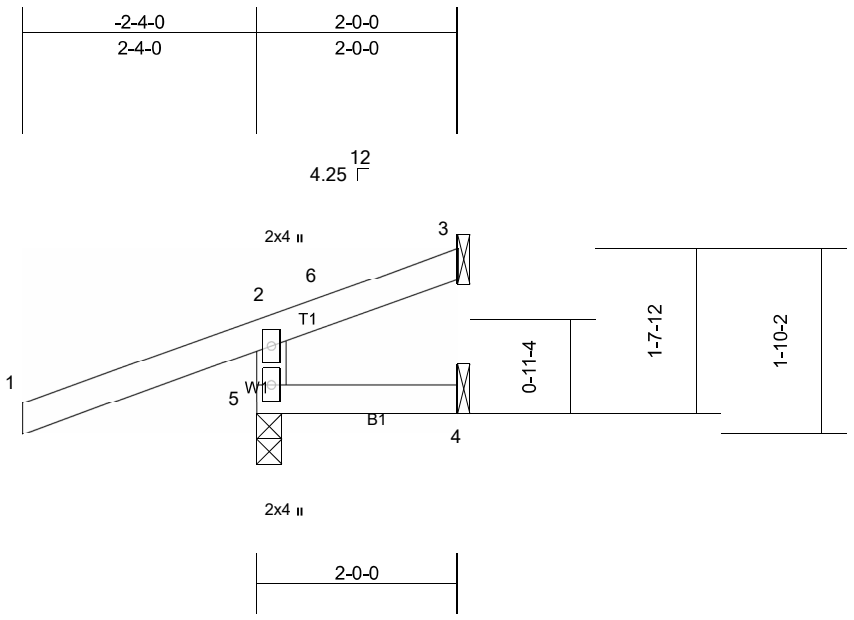
REACTIONS (lb/size) 4=-2/ Mechanical, 5=-3/ Mechanical, 6=244/0-3-0, (min. 0-1-8)
Max Horiz 6=31 (LC 12)
Max Uplift 4=-54 (LC 38), 5=-19 (LC 38), 6=-130 (LC 12)
Max Grav 4=39 (LC 45), 5=24 (LC 7), 6=346 (LC 38)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-6=-290/216

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-4-0 to 1-11-14 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
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 6, 54 lb uplift at joint 4 and 19 lb uplift at joint 5.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	J2	Jack-Open	1	1	Job Reference (optional)



Scale = 1:23

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	0.00	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 11 lb	FT = 20%

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

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

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

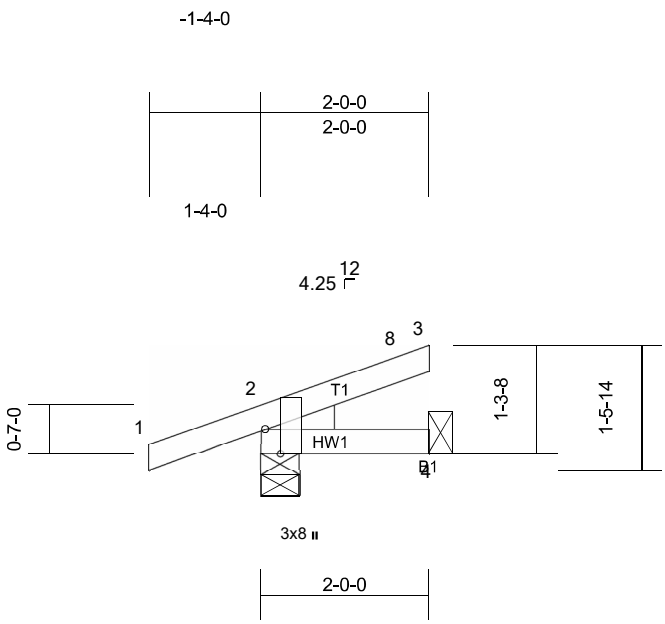
REACTIONS (lb/size) 3=-10/ Mechanical, 4=-4/ Mechanical, 5=237/0-3-0, (min. 0-1-8)
Max Horiz 5=48 (LC 12)
Max Uplift 3=-29 (LC 22), 4=-13 (LC 23), 5=-121 (LC 12)
Max Grav 3=10 (LC 12), 4=24 (LC 7), 5=334 (LC 23)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-284/201

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-4-0 to 0-8-0, Interior (1) 0-8-0 to 1-11-14 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
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 5, 29 lb uplift at joint 3 and 13 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	J3	Jack-Open	2	1	Job Reference (optional)



Scale = 1:27.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	0.00	7	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	0.00	4-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 10 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE Left: 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-9-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

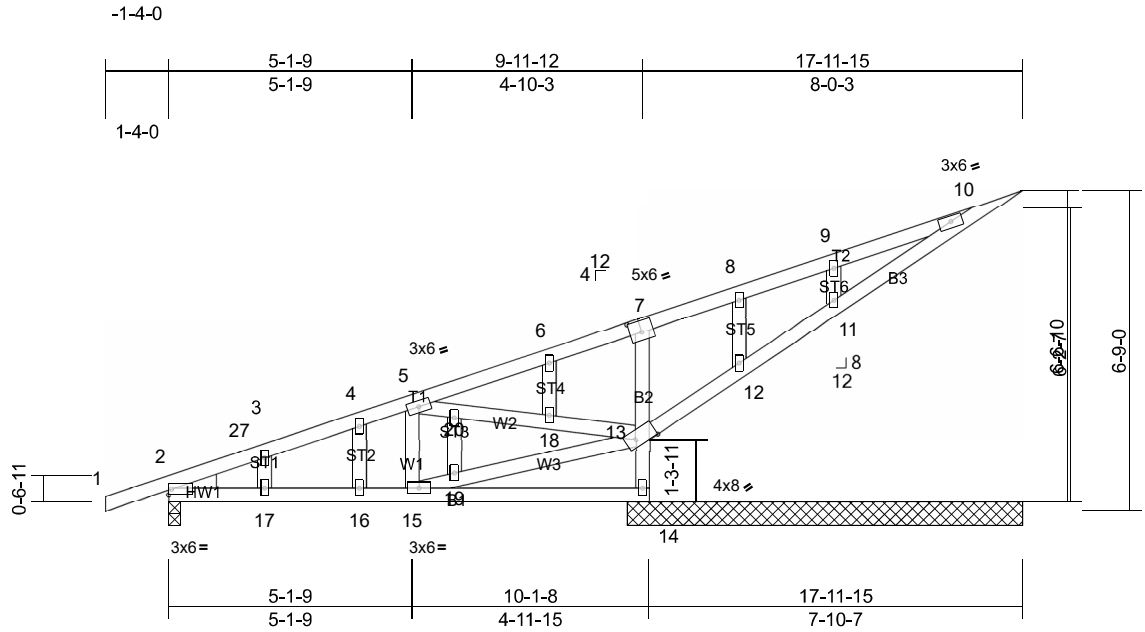
REACTIONS (lb/size) 2=139/0-5-8, (min. 0-1-8), 4=44/ Mechanical
Max Horiz 2=40 (LC 12)
Max Uplift 2=-58 (LC 12), 4=-17 (LC 13)
Max Grav 2=186 (LC 2), 4=54 (LC 2)

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

NOTES
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 2-0-0 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 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; 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 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 2 and 17 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	M1E	Monopitch Structural Gable	1	1	Job Reference (optional)



Scale = 1:48.6

Plate Offsets (X, Y): [7:0-3-0,0-3-0], [13:0-5-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	0.03	16-17	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.04	16-17	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.01	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 90 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2
WEDGE	Left: 2x4 SP No.2

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.

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

REACTIONS All bearings 8-4-0. except 2=0-3-0
(lb) - Max Horiz 2=194 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 10, 11, 12 except 2=-126 (LC 12), 14=-212 (LC 12)
Max Grav All reactions 250 (lb) or less at joint (s) 10, 12 except 2=424 (LC 2), 11=305 (LC 23), 14=640 (LC 2)

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

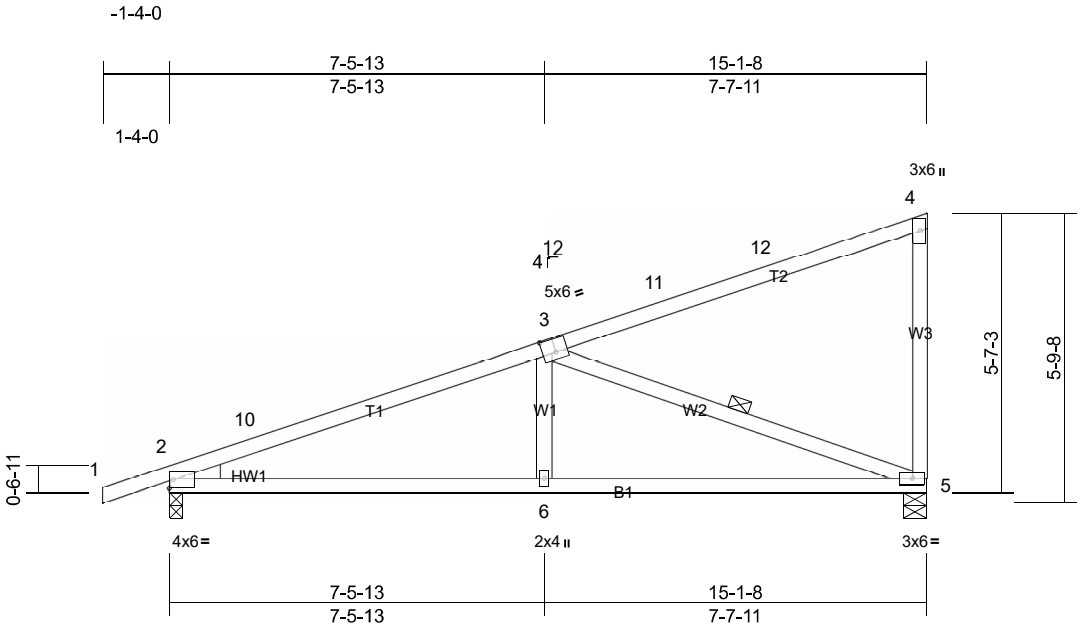
TOP CHORD	2-27=-468/114, 3-27=-436/115, 3-4=-444/125, 4-5=-411/130, 6-7=-159/273, 7-8=-134/258, 8-9=-119/284, 9-10=-88/256
BOT CHORD	2-17=-255/410, 16-17=-255/410, 15-16=-255/410, 13-14=-597/217, 12-13=-294/76, 11-12=-286/72, 10-11=-321/83
WEBS	15-19=-248/406, 13-19=-249/414, 5-20=-636/305, 18-20=-635/306, 13-18=-637/306

NOTES

1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 16-11-5 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) All plates are 2x4 (||) MT20 unless otherwise indicated.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
12) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 10, 11, 12 except (jt=lb) 2=125, 14=211.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	M2	Monopitch	9	1	Job Reference (optional)



Scale = 1:46.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.08	5-6	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.17	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 72 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-11-5 oc bracing.
WEBS 1 Row at midpt 3-5

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

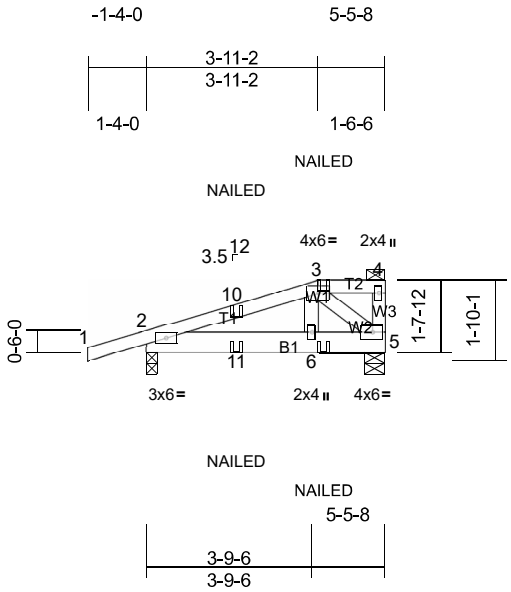
REACTIONS (lb/size) 2=533/0-3-0, (min. 0-1-8), 5=470/0-5-8, (min. 0-1-8)
Max Horiz 2=183 (LC 15)
Max Uplift 2=-238 (LC 12), 5=-223 (LC 12)
Max Grav 2=683 (LC 2), 5=596 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-1065/433, 3-10=-936/458
BOT CHORD 2-6=-531/947, 5-6=-523/936
WEBS 3-6=-133/332, 3-5=-977/489

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 14-11-12 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 at joint(s) 2.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 238 lb uplift at joint 2 and 223 lb uplift at joint 5.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	M3G	Half Hip Girder	1	1	Job Reference (optional)



Scale = 1:52.8

1-8-2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	0.00	6-9	>999	240	MT20	244/190
Snow (Pf/Pg)	16.5/15.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	6-9	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 28 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-5-8 oc purlins, except end verticals, and 10-0-0 oc max: 3-4.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

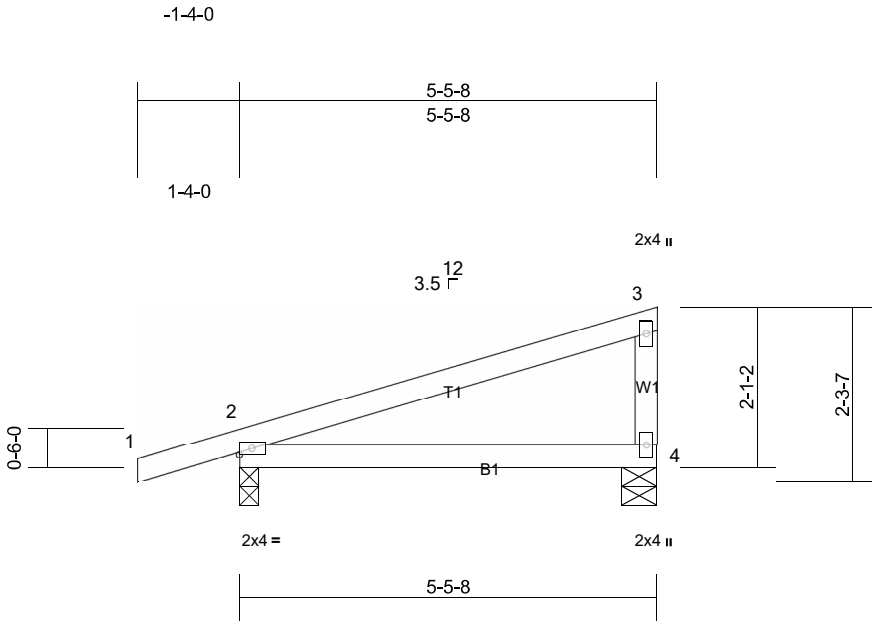
REACTIONS (lb/size) 2=220/0-3-0, (min. 0-1-8), 5=148/0-5-8, (min. 0-1-8)
Max Horiz 2=48 (LC 11)
Max Uplift 2=-94 (LC 8), 5=-53 (LC 8)
Max Grav 2=308 (LC 34), 5=177 (LC 2)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 at joint(s) 2.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 2 and 53 lb uplift at joint 5.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
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: 1-3=-43, 3-4=-53, 5-7=-20
Concentrated Loads (lb)
Vert: 6=3, 3=24, 10=13, 11=-2

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	M4	Monopitch	4	1	Job Reference (optional)



Scale = 1:30.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	0.06	4-7	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.08	4-7	>828	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 21 lb	FT = 20%

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

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

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

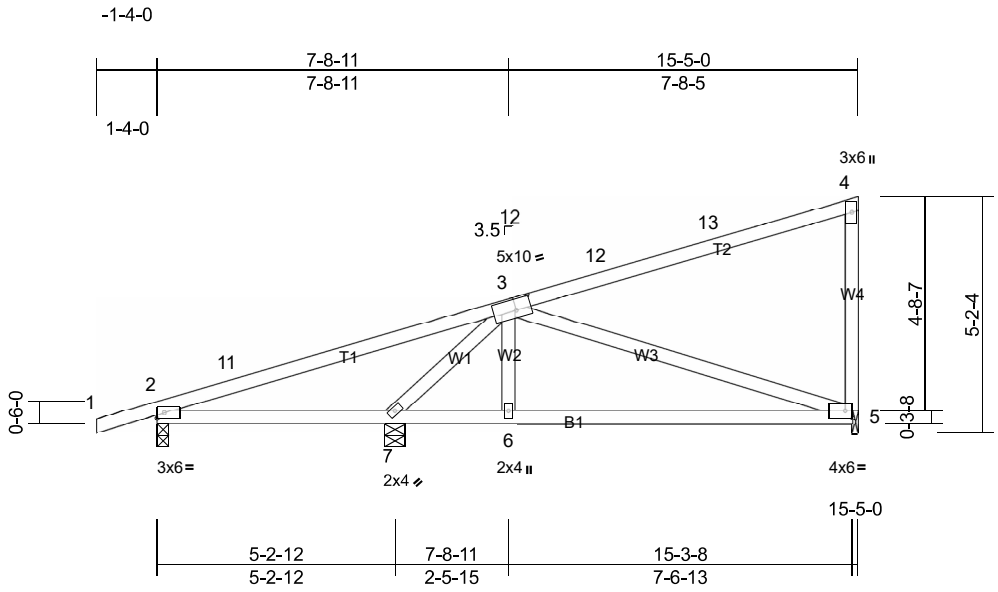
REACTIONS (lb/size) 2=232/0-3-0, (min. 0-1-8), 4=160/0-5-8, (min. 0-1-8)
Max Horiz 2=63 (LC 15)
Max Uplift 2=-115 (LC 12), 4=-74 (LC 12)
Max Grav 2=303 (LC 2), 4=211 (LC 23)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 5-3-12 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 at joint(s) 2.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 4 and 115 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	M5	Monopitch	2	1	Job Reference (optional)



Scale = 1:50.7

0-1-8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.09	5-6	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.19	5-6	>638	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 75 lb	FT = 20%

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

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

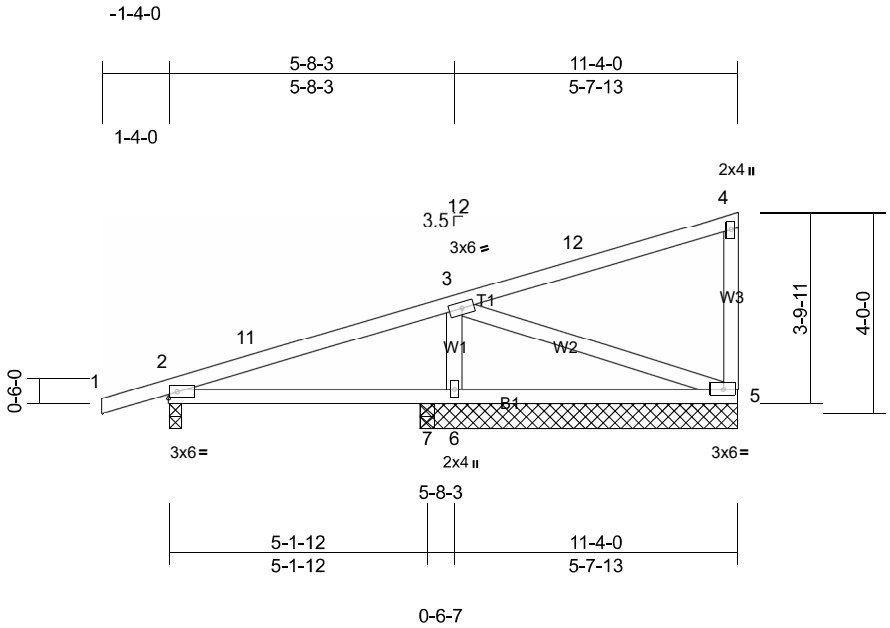
REACTIONS (lb/size) 2=265/0-3-0, (min. 0-1-8), 5=342/0-1-8, (min. 0-1-8), 7=414/0-5-8, (min. 0-1-8)
Max Horiz 2=160 (LC 15)
Max Uplift 2=-132 (LC 12), 5=-91 (LC 12), 7=-95 (LC 12)
Max Grav 2=347 (LC 2), 5=435 (LC 2), 7=520 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 6-7=-234/582, 5-6=-234/582
WEBS 3-6=0/254, 3-5=-579/187, 3-7=-577/80

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 15-3-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) 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.
10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2, 5.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 2, 95 lb uplift at joint 7 and 91 lb uplift at joint 5.
12) Gap between inside of extended chord bearing and first diagonal or vertical web shall not exceed 0.500in at joint 5.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	M6	Monopitch Structural Gable	1	1	Job Reference (optional)



Scale = 1:45.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.02	5-6	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.04	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 52 lb	FT = 20%

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

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

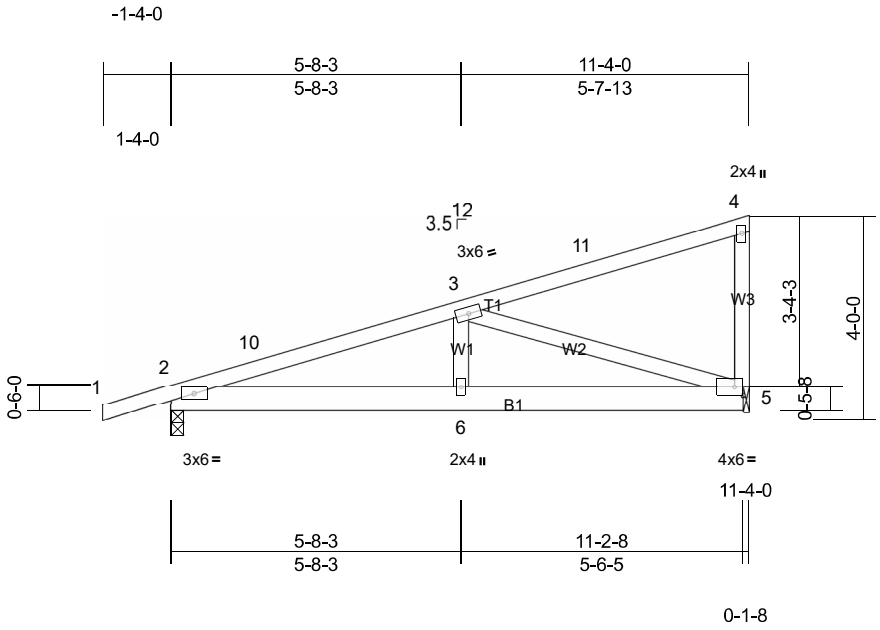
REACTIONS All bearings 6-4-0. except 2=0-3-0, 7=0-3-8 (lb) - Max Horiz 2=120 (LC 15)
Max Uplift All uplift 100 (lb) or less at joint(s) 5, 6 except 2=-112 (LC 12), 7=-130 (LC 13)
Max Grav All reactions 250 (lb) or less at joint (s) 5, 7 except 2=308 (LC 2), 6=349 (LC 23)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-304/123

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 11-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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 at joint(s) 2.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 6, 5 except (jt=lb) 2=112, 7=129.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	M7	Monopitch	5	1	Job Reference (optional)



Scale = 1:45.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	0.02	6-9	>999	240	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.04	6-9	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 61 lb	FT = 20%

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

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

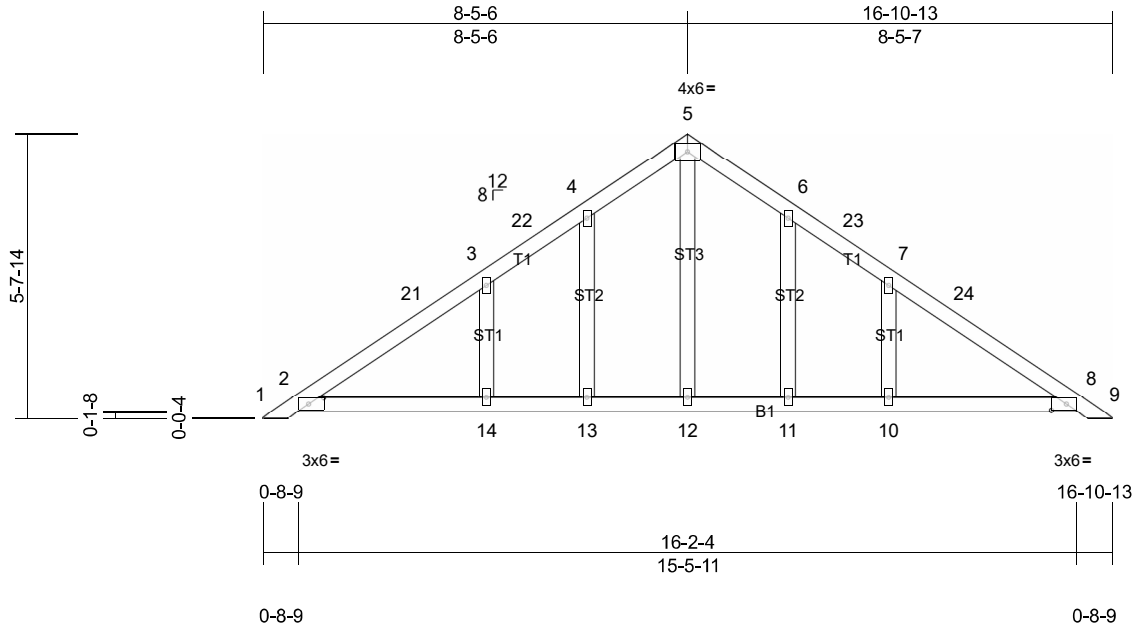
REACTIONS (lb/size) 2=414/0-3-0, (min. 0-1-8), 5=350/0-1-8, (min. 0-1-8)
Max Horiz 2=118 (LC 15)
Max Uplift 2=-192 (LC 12), 5=-162 (LC 12)
Max Grav 2=532 (LC 2), 5=443 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-860/421, 3-10=-788/435
BOT CHORD 2-6=-497/793, 5-6=-497/793
WEBS 3-5=-808/469

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 11-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
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) 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.
10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2, 5.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 192 lb uplift at joint 2 and 162 lb uplift at joint 5.
12) Gap between inside of extended chord bearing and first diagonal or vertical web shall not exceed 0.500in at joint 5.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	PB1E	Piggyback	1	1	Job Reference (optional)



Scale = 1:45.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 78 lb	FT = 20%

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

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

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

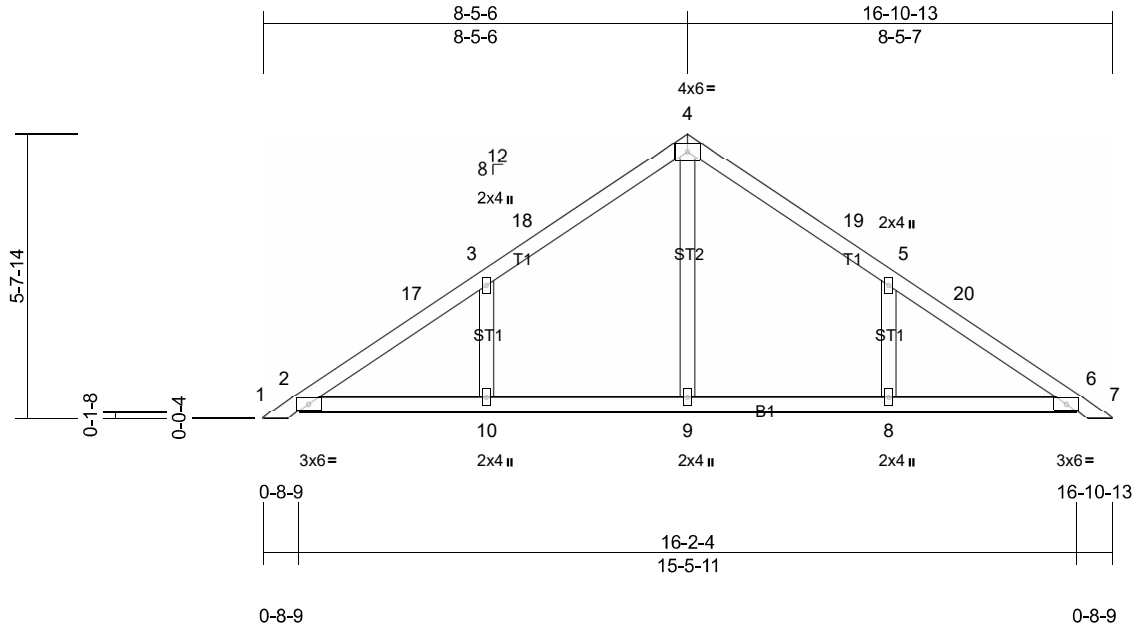
REACTIONS All bearings 15-5-11.
(lb) - Max Horiz 2=109 (LC 13)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 8, 11, 13 except 10=-104 (LC 15), 14=-105 (LC 14)
Max Grav All reactions 250 (lb) or less at joint (s) 2, 8, 11, 12, 13 except 10=309 (LC 27), 14=309 (LC 26)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Interior (1) 3-3-5 to 8-5-12, Exterior(2R) 8-5-12 to 11-5-12, Interior (1) 11-5-12 to 16-8-4 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) All plates are 2x4 (||) MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * 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.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 2, 8, 13, 11, 2, 8 except (jt=lb) 14=104, 10=104.
13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	PB2	Piggyback	6	1	Job Reference (optional)



Scale = 1:45.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 67 lb	FT = 20%

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

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

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

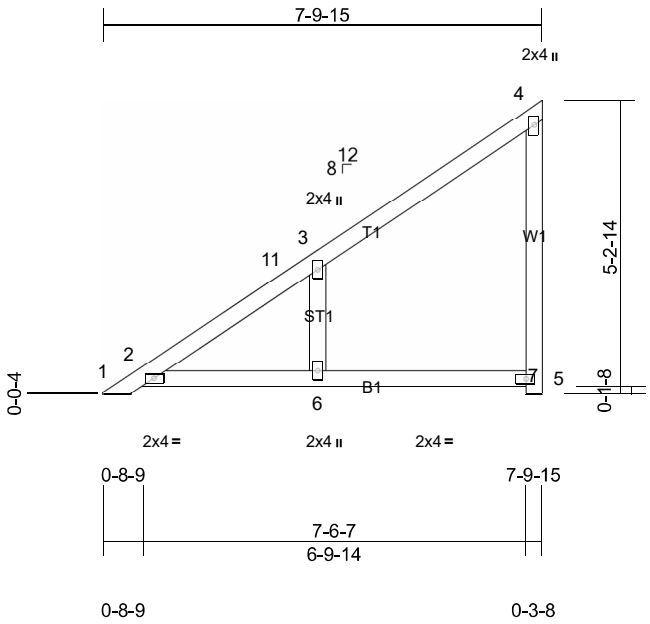
REACTIONS All bearings 16-11-9.
(lb) - Max Horiz 1=-109 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 6 except 1=-185 (LC 26), 7=-134 (LC 27), 8=-120 (LC 15), 10=-120 (LC 14)
Max Grav All reactions 250 (lb) or less at joint (s) 1, 7, 9 except 2=359 (LC 26), 6=331 (LC 2), 8=346 (LC 27), 10=346 (LC 26)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-10=-261/138, 5-8=-261/138

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Interior (1) 3-3-5 to 8-5-12, Exterior(2R) 8-5-12 to 11-5-12, Interior (1) 11-5-12 to 16-8-4 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 4-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 100 lb uplift at joint (s) 2, 6, 2, 6 except (jt=lb) 1=185, 7=133, 10=120, 8=120.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	PB3	Piggyback	11	1	Job Reference (optional)



Scale = 1:41.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 34 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP 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.

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

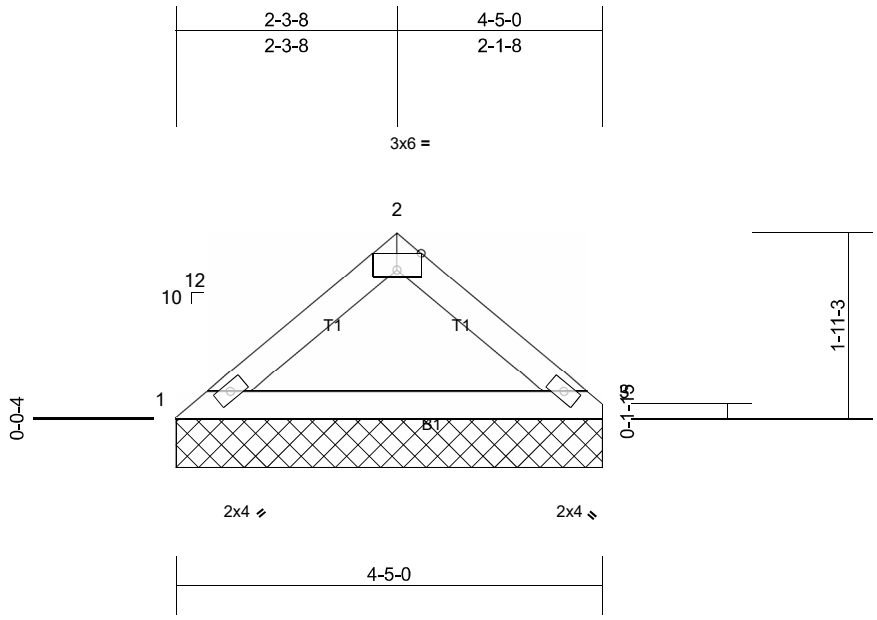
REACTIONS All bearings 6-9-14.
(lb) - Max Horiz 2=153 (LC 13)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 5 except 6=-121 (LC 14)
Max Grav All reactions 250 (lb) or less at joint (s) 2, 5 except 6=360 (LC 26)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-265/153

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Interior (1) 3-3-5 to 7-8-9 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
6) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 4-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 2, 5, 2 except (jt=lb) 6=120.
12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	V1	Valley	1	1	Job Reference (optional)



Scale = 1:23.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 14 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

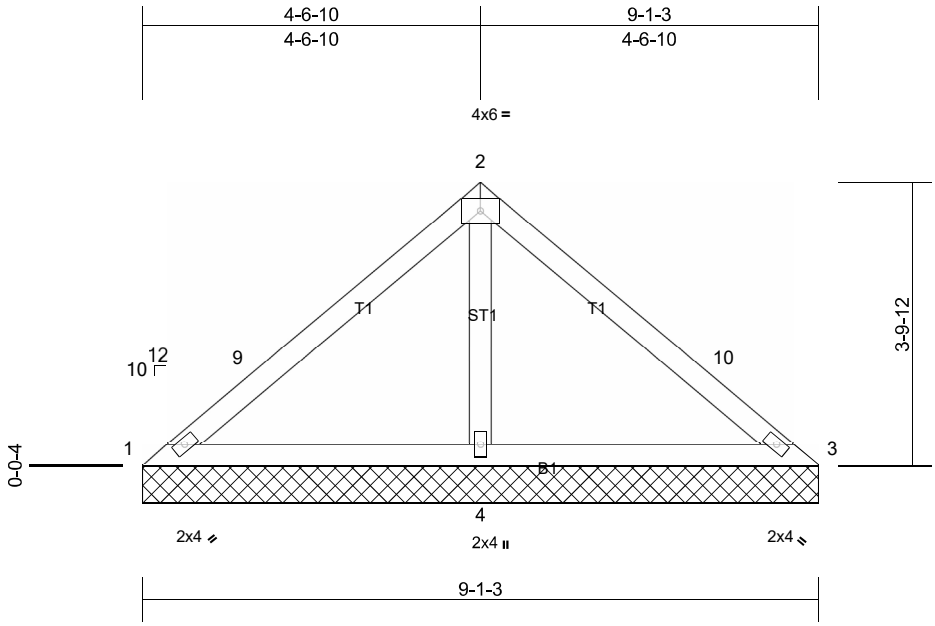
REACTIONS (lb/size) 1=139/4-5-0, (min. 0-1-8), 3=139/4-5-0, (min. 0-1-8)
Max Horiz 1=-35 (LC 10)
Max Uplift 1=-18 (LC 14), 3=-17 (LC 15)
Max Grav 1=177 (LC 2), 3=177 (LC 2)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
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 18 lb uplift at joint 1 and 17 lb uplift at joint 3.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	V2	Valley	1	1	Job Reference (optional)



Scale = 1:31

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.22	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 34 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 9-1-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

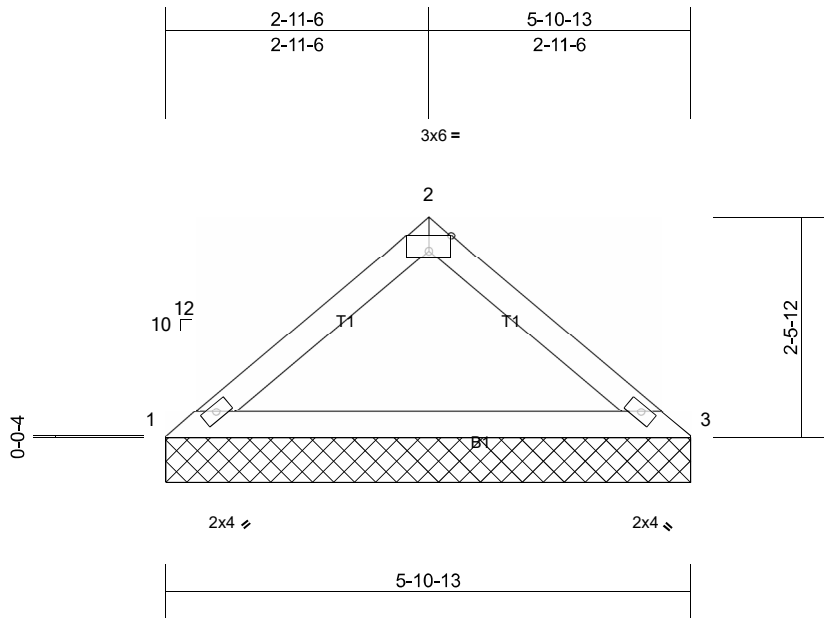
REACTIONS (lb/size) 1=26/9-1-3, (min. 0-1-8), 3=26/9-1-3, (min. 0-1-8), 4=522/9-1-3, (min. 0-1-8)
Max Horiz 1=-72 (LC 12)
Max Uplift 1=-21 (LC 32), 3=-21 (LC 31), 4=-105 (LC 14)
Max Grav 1=70 (LC 31), 3=70 (LC 32), 4=660 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-94/276, 2-10=-90/276
WEBS 2-4=-499/225

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 4-6-14, Exterior(2R) 4-6-14 to 7-6-14, Interior (1) 7-6-14 to 9-1-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
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 21 lb uplift at joint 1, 21 lb uplift at joint 3 and 105 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	V2A	Valley	1	1	Job Reference (optional)



Scale = 1:25.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.21	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	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 19 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-10-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

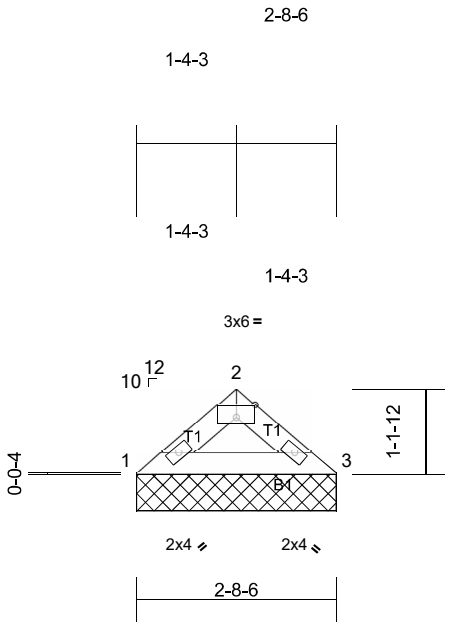
REACTIONS (lb/size) 1=186/5-10-13, (min. 0-1-8), 3=186/5-10-13, (min. 0-1-8)
Max Horiz 1=46 (LC 13)
Max Uplift 1=-23 (LC 14), 3=-23 (LC 15)
Max Grav 1=236 (LC 2), 3=236 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-330/123
BOT CHORD 1-3=-92/250

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
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 23 lb uplift at joint 1 and 23 lb uplift at joint 3.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	V2B	Valley	1	1	Job Reference (optional)



Scale = 1:31.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 8 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-8-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

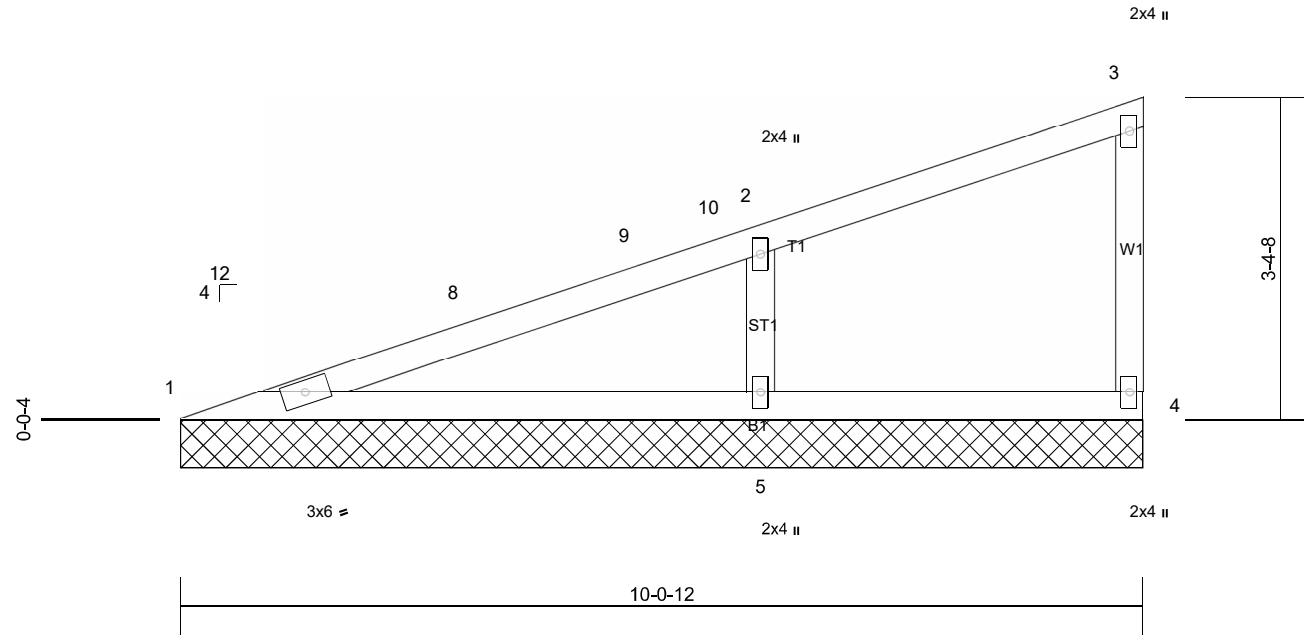
REACTIONS (lb/size) 1=85/2-8-6, (min. 0-1-8), 3=85/2-8-6, (min. 0-1-8)
Max Horiz 1=19 (LC 13)
Max Uplift 1=-11 (LC 14), 3=-11 (LC 15)
Max Grav 1=108 (LC 2), 3=108 (LC 2)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
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 11 lb uplift at joint 1 and 11 lb uplift at joint 3.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	VM1	Valley	1	1	Job Reference (optional)



Scale = 1:24.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.38	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.01	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 36 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP 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.

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

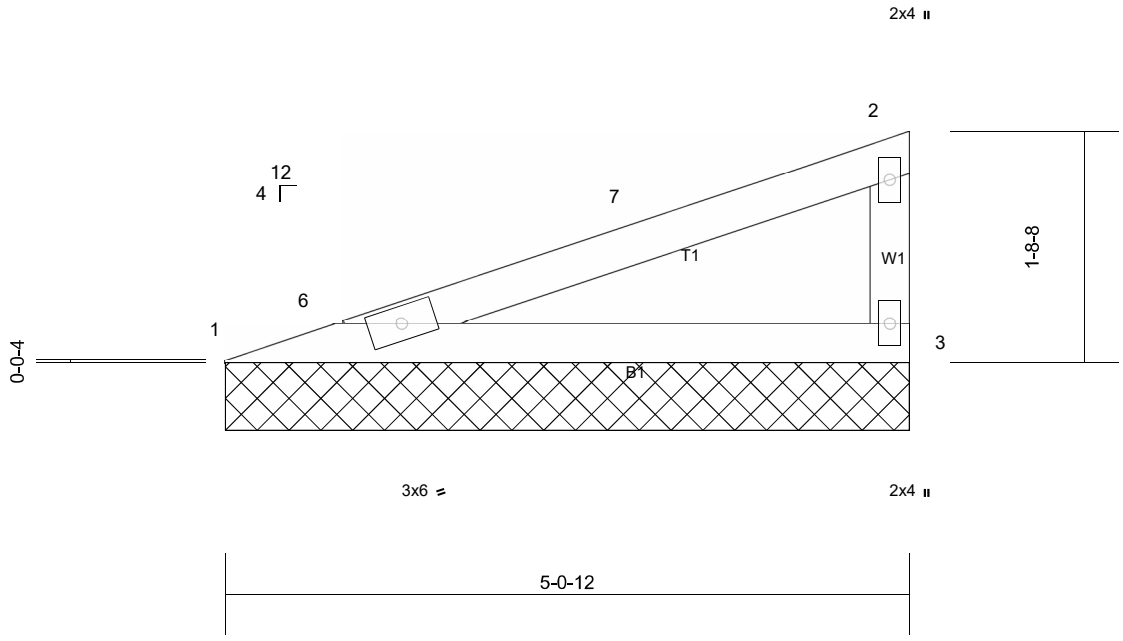
REACTIONS (lb/size) 1=155/10-0-12, (min. 0-1-8), 4=64/10-0-12, (min. 0-1-8), 5=407/10-0-12, (min. 0-1-8)
Max Horiz 1=106 (LC 13)
Max Uplift 1=-18 (LC 12), 4=-13 (LC 13), 5=-103 (LC 16)
Max Grav 1=196 (LC 2), 4=100 (LC 22), 5=516 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-433/101
BOT CHORD 1-5=-155/404
WEBS 2-5=-346/196

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 9-11-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Gable requires continuous bottom chord bearing.
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 13 lb uplift at joint 4, 18 lb uplift at joint 1 and 103 lb uplift at joint 5.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	VM2	Valley	1	1	Job Reference (optional)



Scale = 1:17.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.36	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	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 16 lb	FT = 20%

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

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

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

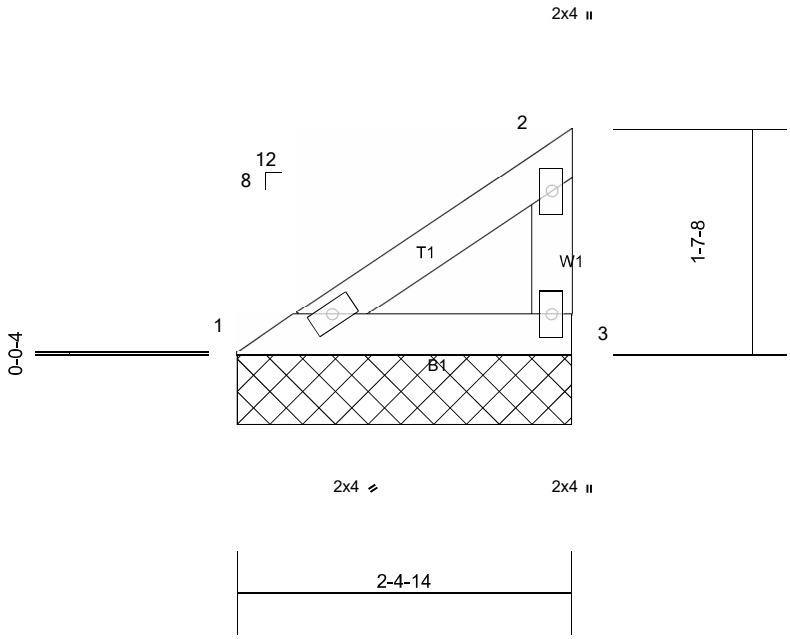
REACTIONS (lb/size) 1=155/5-0-12, (min. 0-1-8), 3=155/5-0-12, (min. 0-1-8)
Max Horiz 1=49 (LC 13)
Max Uplift 1=-29 (LC 12), 3=-36 (LC 16)
Max Grav 1=204 (LC 22), 3=204 (LC 22)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-450/176, 1-6=-434/179
BOT CHORD 1-3=-279/420

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 4-11-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Gable requires continuous bottom chord bearing.
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 36 lb uplift at joint 3 and 29 lb uplift at joint 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	VM3	Valley	1	1	Job Reference (optional)



Scale = 1:16.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 9 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-4-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

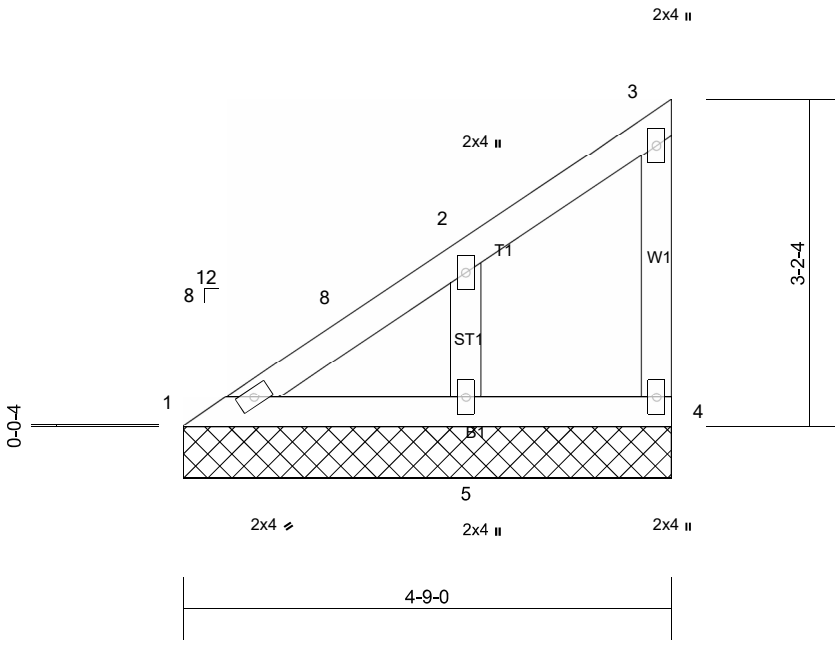
REACTIONS (lb/size) 1=71/2-4-14, (min. 0-1-8), 3=71/2-4-14, (min. 0-1-8)
Max Horiz 1=39 (LC 11)
Max Uplift 1=-8 (LC 14), 3=-22 (LC 14)
Max Grav 1=90 (LC 2), 3=94 (LC 25)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
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 22 lb uplift at joint 3 and 8 lb uplift at joint 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	VM4	Valley	1	1	Job Reference (optional)



Scale = 1:22.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 21 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

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

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

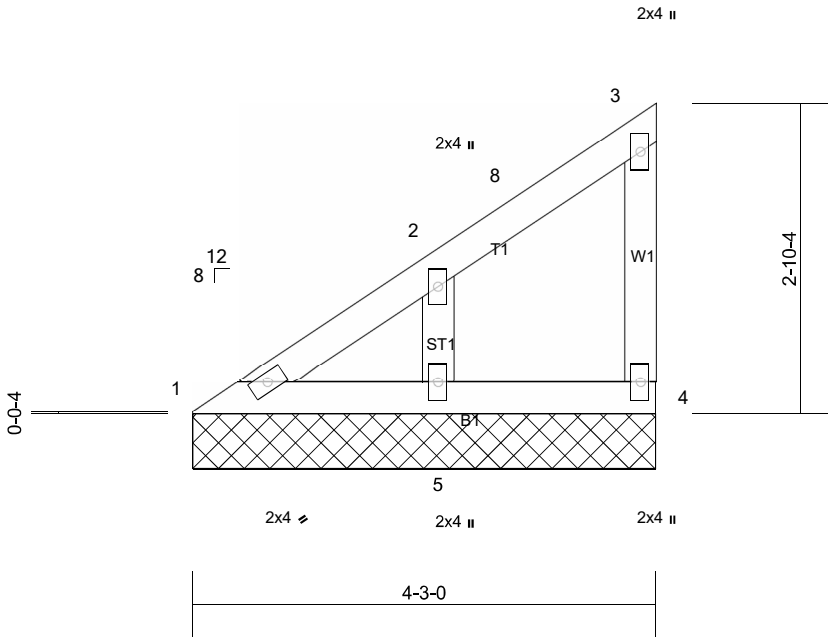
REACTIONS (lb/size) 1=71/4-9-0, (min. 0-1-8), 4=34/4-9-0, (min. 0-1-8), 5=186/4-9-0, (min. 0-1-8)
Max Horiz 1=87 (LC 11)
Max Uplift 4=-17 (LC 11), 5=-71 (LC 14)
Max Grav 1=95 (LC 26), 4=51 (LC 25), 5=239 (LC 25)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-6 to 2-9-6, Exterior(2N) 2-9-6 to 4-7-10 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 17 lb uplift at joint 4 and 71 lb uplift at joint 5.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	VM5	Valley	1	1	Job Reference (optional)



Scale = 1:21.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	n/a	-	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 18 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

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

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

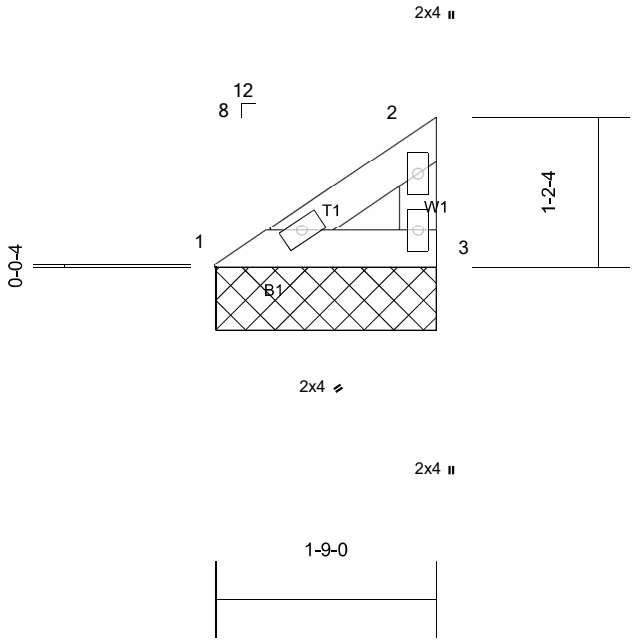
REACTIONS (lb/size) 1=57/4-3-0, (min. 0-1-8), 4=41/4-3-0, (min. 0-1-8), 5=161/4-3-0, (min. 0-1-8)
Max Horiz 1=77 (LC 11)
Max Uplift 4=-16 (LC 11), 5=-60 (LC 14)
Max Grav 1=78 (LC 26), 4=59 (LC 25), 5=208 (LC 25)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-6 to 3-0-6, Interior (1) 3-0-6 to 4-1-10 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 16 lb uplift at joint 4 and 60 lb uplift at joint 5.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Plan 1 - Carolina Acre
2606610-42288	VM6	Valley	1	1	Job Reference (optional)



Scale = 1:18.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	11.5/15.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	n/a	-	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 6 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS (lb/size) 1=51/1-9-0, (min. 0-1-8), 3=51/1-9-0, (min. 0-1-8)
Max Horiz 1=26 (LC 11)
Max Uplift 1=-6 (LC 14), 3=-15 (LC 14)
Max Grav 1=64 (LC 2), 3=67 (LC 25)

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

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Snow Load Pg=15.0psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
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 15 lb uplift at joint 3 and 6 lb uplift at joint 1.

LOAD CASE(S) Standard