Job	Truss	Truss Type	Qty	Ply	109-25-129 COX
250593-A	A1	Monopitch Supported Gable	1	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, user — Run: 25.20 S Jul 24 2025 Print: 25.2.0 S Jul 24 2025 MiTek Industries, Inc. Tue Aug 19 06:43:57 — Page: 1

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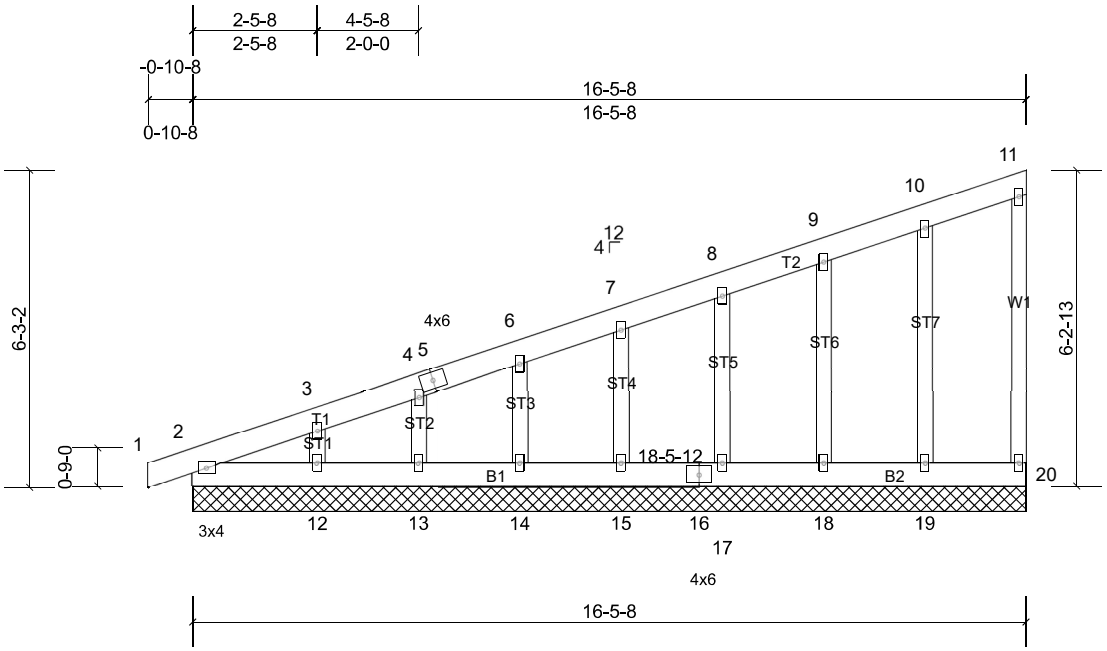

Scale = 1:45.5

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	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	20	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 117 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
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 16-5-8.

(lb) - Max Horiz 2=268 (LC 8)
Max Uplift All uplift 100 (lb) or less at joint(s) 12, 13, 14, 15, 17, 18, 19, 20
Max Grav All reactions 250 (lb) or less at joint (s) 2, 12, 13, 14, 15, 17, 18, 19, 20

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

TOP CHORD 2-3=-389/117, 3-4=-309/89, 4-5=-262/66, 5-6=-258/77

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 3-6-5, Exterior(2N) 3-6-5 to 16-3-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 (||) MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in 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) 20, 19, 18, 17, 15, 14, 13, 12.
9) Non Standard bearing condition. Review required.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	109-25-129 COX
250593-A	A2	JACK-CLOSED	9	1	Job Reference (optional)

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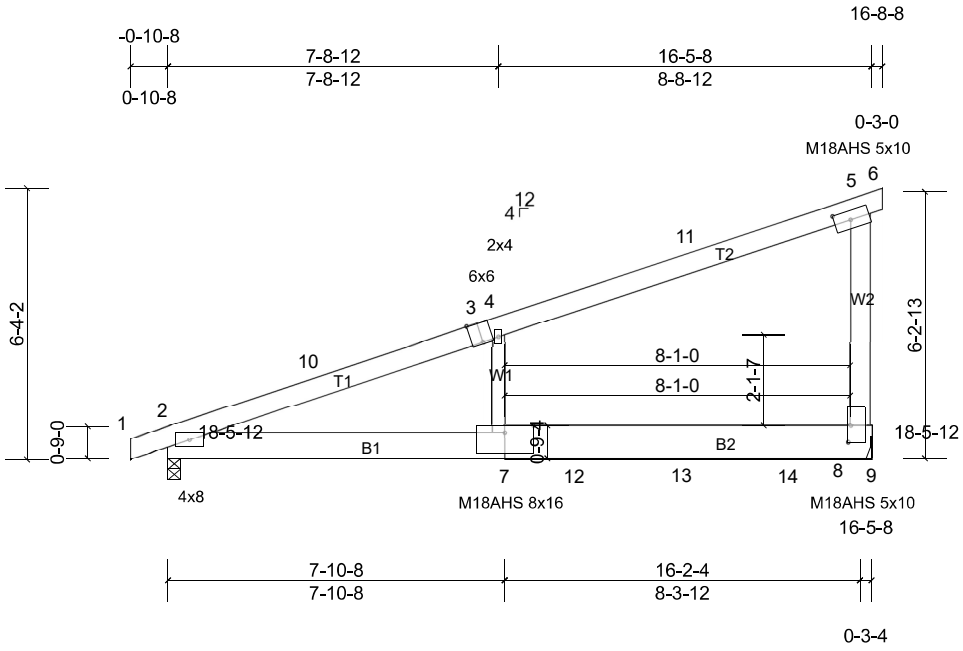

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Plate Offsets (X, Y): [3:0-3-0,Edge], [5:0-4-8,0-2-8], [8:0-4-12,0-0-12]

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	0.81	Vert(LL)	-0.33	2-7	>583	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.68	2-7	>282	240	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.24	2-7	>788	240	Weight: 117 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1

BOT CHORD 2x10 SP 2400F 2.0E *Except* B1:2x8 SP 2400F 2.0E

WEBS 2x6 SP No.1 *Except* W1:2x4 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 9-3-4 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=757/0-3-8, (min. 0-1-8), 8=825/ Mechanical

Max Horiz 2=191 (LC 8)

Max Uplift 2=-21 (LC 8)

Max Grav 2=802 (LC 2), 8=973 (LC 2)

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

TOP CHORD 2-10=-384/0, 3-10=-306/0, 3-4=-275/0, 4-11=-301/0, 5-8=-305/200

BOT CHORD 2-7=-72/282, 7-12=-56/272, 12-13=-55/272, 13-14=-55/273, 8-14=-54/275

WEBS 4-7=-321/323

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior (1) 3-6-5 to 16-8-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 200.0lb AC unit load placed on the bottom chord, 12-0-0 from left end, supported at two points, 5-0-0 apart.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in 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 21 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	109-25-129 COX
250593-A	A3	JACK-CLOSED	2	1	Job Reference (optional)

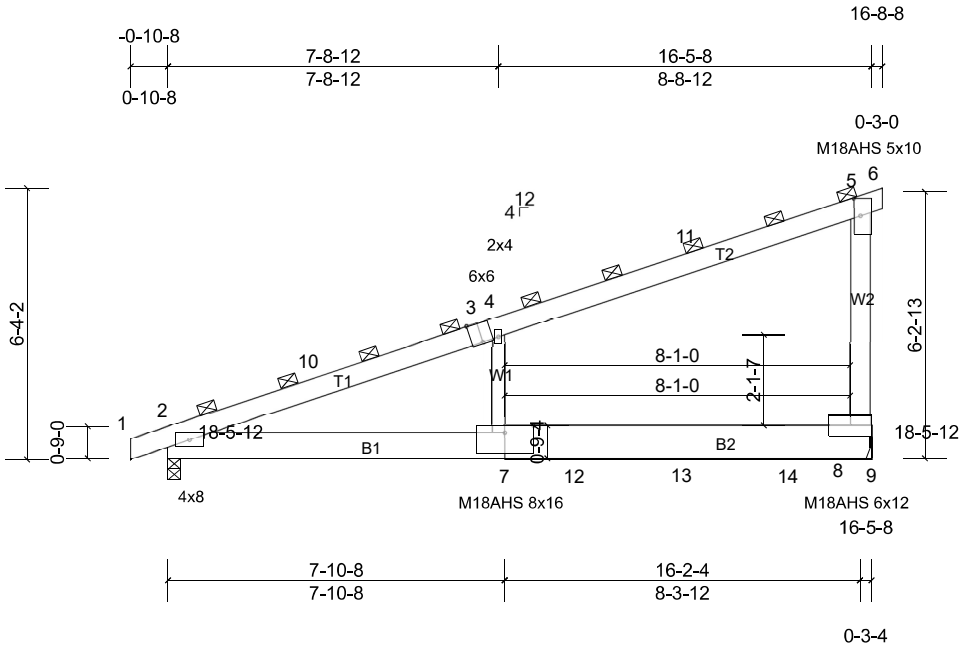

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Plate Offsets (X, Y): [3:0-3-0,Edge], [5:0-5-0,0-1-12]

Loading	(psf)	Spacing	2-3-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.37	2-7	>518	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.76	2-7	>254	240	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.27	2-7	>700	240	Weight: 117 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP 2400F 2.0E *Except* B1:2x8 SP 2400F 2.0E
WEBS 2x6 SP No.1 *Except* W1:2x4 SP No.2

BRACING
TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 8-0-8 oc bracing.

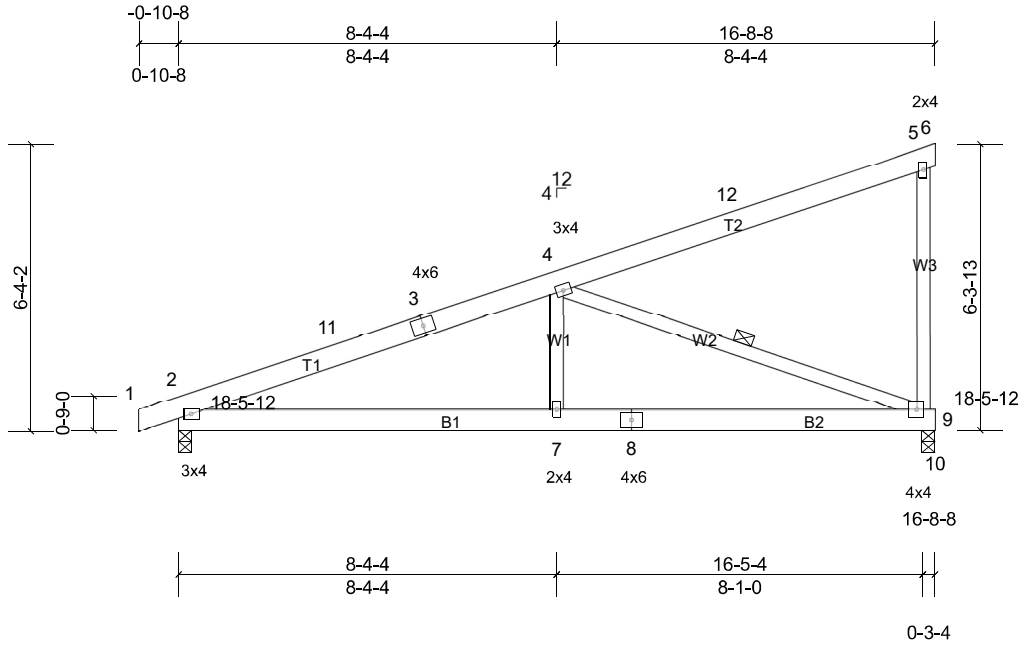
REACTIONS (lb/size) 2=845/0-3-8, (min. 0-1-8), 8=909/ Mechanical
Max Horiz 2=215 (LC 8)
Max Uplift 2=-30 (LC 8)
Max Grav 2=896 (LC 2), 8=1076 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-428/0, 3-10=-340/0, 3-4=-305/0, 4-11=-335/0, 5-8=-342/226
BOT CHORD 2-7=-84/313, 7-12=-67/302, 12-13=-66/302, 13-14=-66/303, 8-14=-65/305
WEBS 4-7=-364/359

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior (1) 3-6-5 to 16-8-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 200.0lb AC unit load placed on the bottom chord, 12-0-0 from left end, supported at two points, 5-0-0 apart.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in 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 30 lb uplift at joint 2.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	109-25-129 COX
250593-A	A4	MONOPITCH	5	1	Job Reference (optional)



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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)	-0.03	7-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.07	2-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.03	2-7	>999	240	Weight: 107 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 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 4-9

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

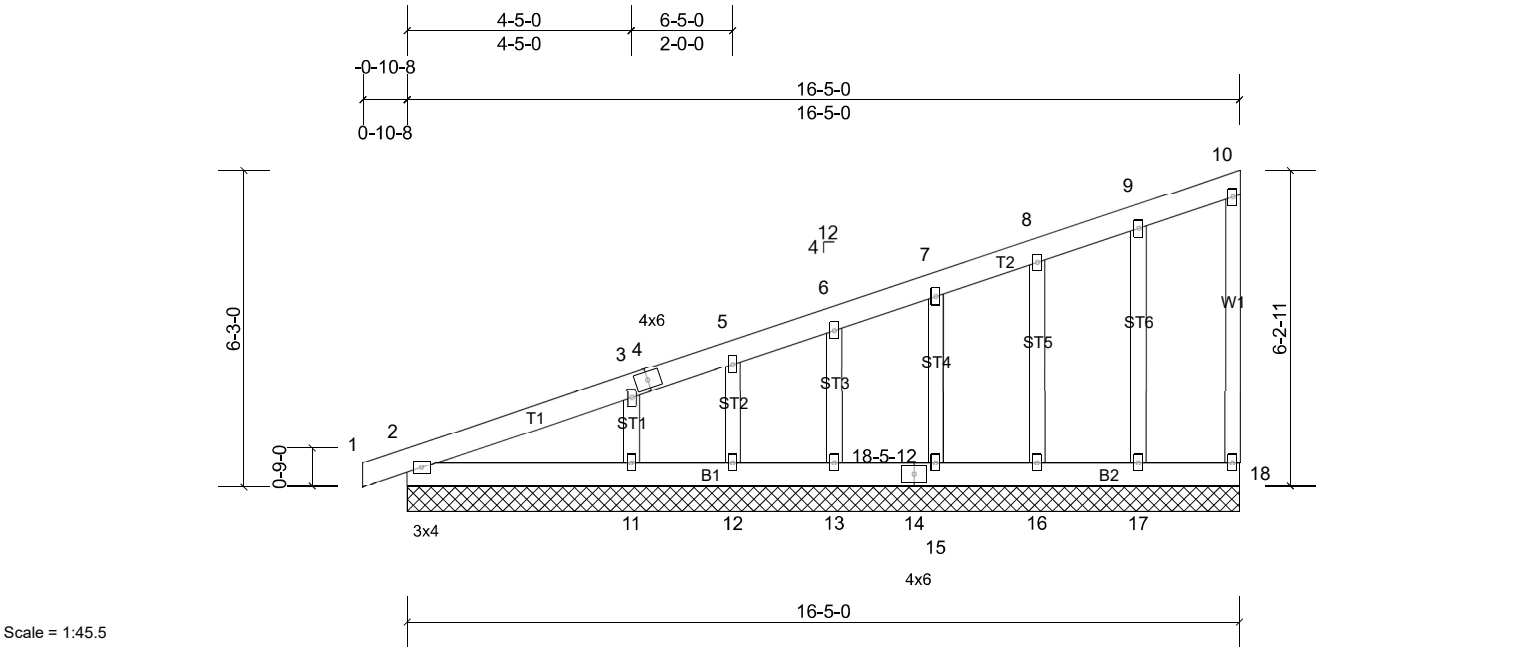
REACTIONS (lb/size) 2=715/0-3-8, (min. 0-1-8), 9=661/0-3-8, (min. 0-1-8)
Max Horiz 2=191 (LC 8)
Max Uplift 2=-74 (LC 8), 9=-104 (LC 12)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-1170/170, 3-11=-1095/171, 3-4=-1018/194
BOT CHORD 2-7=-368/1024, 7-8=-368/1024, 8-9=-368/1024
WEBS 4-7=0/381, 4-9=-1078/387

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior (1) 3-6-5 to 16-8-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 9 and 74 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	109-25-129 COX
250593-A	A5	Monopitch Supported Gable	1	1	Job Reference (optional)



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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
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	18	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 116 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
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.

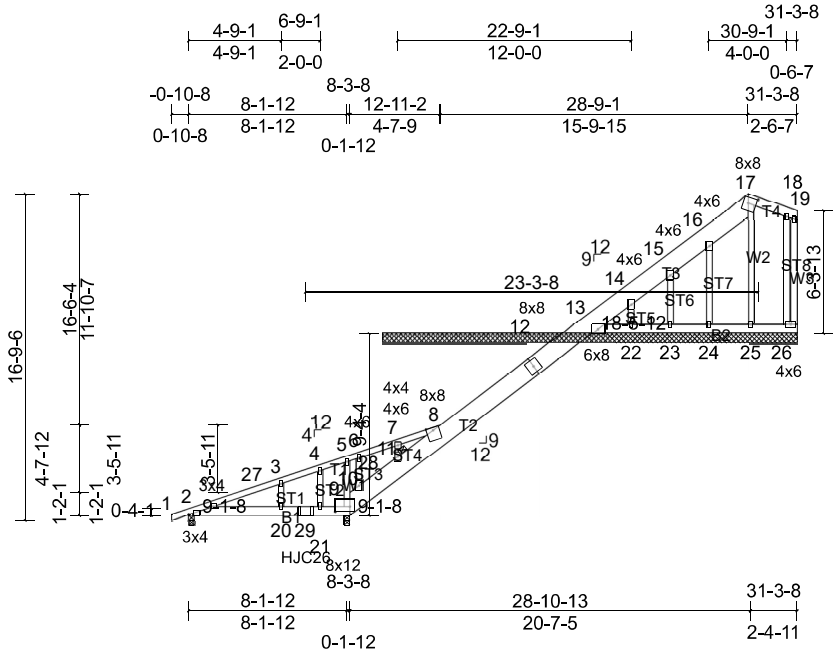
REACTIONS All bearings 16-5-0.
(lb) - Max Horiz 2=268 (LC 8)
Max Uplift All uplift 100 (lb) or less at joint(s) 12, 13, 15, 16, 17, 18 except 11=-138 (LC 12)
Max Grav All reactions 250 (lb) or less at joint (s) 2, 12, 13, 15, 16, 17, 18 except 11=349 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-365/117
WEBS 3-11=-245/277

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 3-6-5, Exterior(2N) 3-6-5 to 16-3-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 (||) MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
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 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 18, 17, 16, 15, 13, 12 except (jt=lb) 11=138.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	109-25-129 COX
250593-A	B1	Roof Special Structural Gable	1	1	Job Reference (optional)



Scale = 1:118.5

Plate Offsets (X, Y): [2:0-2-15,Edge], [9:0-9-0,0-3-4], [17:0-5-2,0-4-0]

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	0.46	Vert(LL)	-0.08	2-20	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.16	2-20	>608	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	-0.01	26	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.12	2-20	>819	240	Weight: 247 lb	FT = 20%

LUMBER
TOP CHORD 2x12 SP No.1 *Except* T1:2x4 SP No.1, T4:2x6 SP No.1
BOT CHORD 2x6 SP No.1
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 8-11-2 oc bracing.
JOINTS 1 Brace at Jt(s): 11

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

REACTIONS All bearings 21-3-7. except 2=0-3-8, 9=0-3-8
(lb) - Max Horiz 2=956 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 24, 25, 26 except 2=-234 (LC 8), 7=-247 (LC 3), 8=-445 (LC 12), 9=-499 (LC 8), 13=-382 (LC 33), 23=-111 (LC 33)
Max Grav All reactions 250 (lb) or less at joint (s) 7, 22, 23, 24, 25, 26 except 2=485 (LC 25), 8=765 (LC 1), 9=1447 (LC 1), 13=494 (LC 19)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-27=-442/106, 3-27=-413/114, 3-4=-377/98, 4-5=-326/97, 5-6=-415/175, 6-7=-348/158, 7-8=-306/171, 9-10=-681/310, 10-28=-654/262, 11-28=-647/325, 8-11=-686/468, 8-12=-526/202, 12-13=-489/249
BOT CHORD 2-20=-655/358, 20-29=-655/358, 21-29=-655/358, 9-21=-677/392
WEBS 5-9=-704/292, 6-10=-103/268

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior (1) 3-6-5 to 28-9-1, Exterior(2E) 28-9-1 to 31-1-12 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 (||) MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in 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) Bearing at joint(s) 13, 7 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 100 lb uplift at joint (s) 26, 25, 24 except (jt=lb) 8=445, 2=234, 9=498, 13=381, 23=111, 7=246.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Use MiTek HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent at 6-0-6 from the left end to connect truss(es) J06 (1 ply 2x4 SP), CJ08 (1 ply 2x6 SP) to front face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-5=-60, 5-8=-100, 8-9=-100, 8-17=-60, 17-19=-60, 2-9=-20, 13-26=-20
Concentrated Loads (lb)
Vert: 28=-223, 29=-528 (F)

Job	Truss	Truss Type	Qty	Ply	109-25-129 COX
250593-A	B2	Roof Special	2	1	Job Reference (optional)

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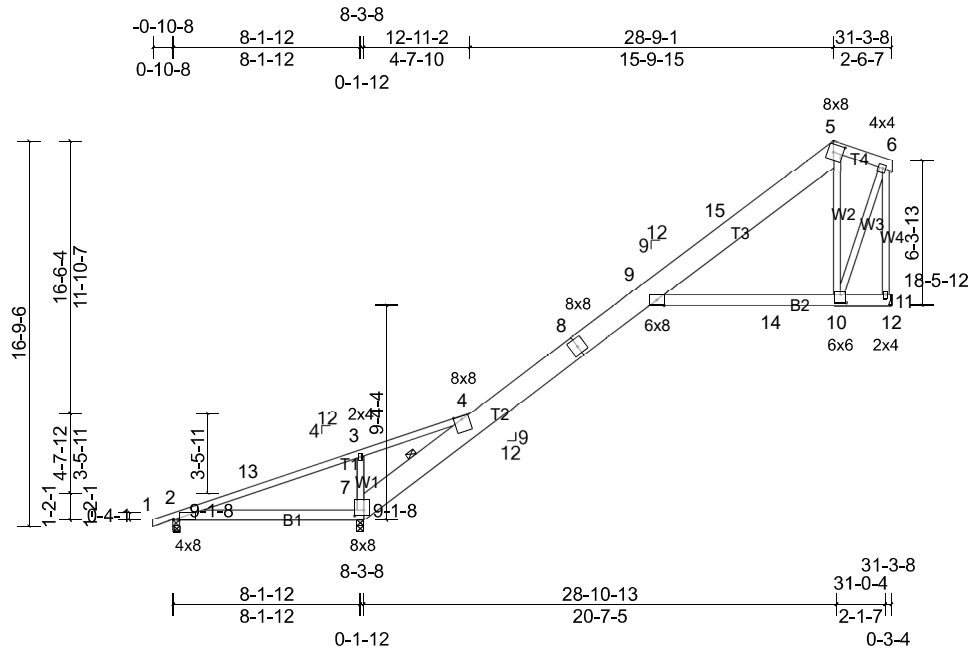


Scale = 1:100.4

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

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	0.97	Vert(LL)	-0.27	9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.46	9	>598	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.31	11	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.31	9	>892	240	Weight: 228 lb	FT = 20%

LUMBER

TOP CHORD 2x12 SP No.1 *Except* T1:2x4 SP No.1, T4:2x6 SP No.1

BOT CHORD 2x6 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.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
4-9-8 oc bracing: 2-7.

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

REACTIONS (lb/size) 2=-455/0-3-8, (min. 0-1-8), 7=2819/0-3-8, (min. 0-3-5), 11=617/ Mechanical

Max Horiz 2=675 (LC 12)

Max Uplift 2=-683 (LC 19), 7=-809 (LC 12), 11=-155 (LC 12)

Max Grav 2=397 (LC 12), 7=2819 (LC 1), 11=760 (LC 19)

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

TOP CHORD 2-13=-2093/2948, 3-13=-2079/3021, 3-4=-1965/3004, 5-6=-300/136, 6-11=-873/368, 4-7=-3367/1488, 4-8=-457/14, 8-9=-314/49, 9-15=-333/0

BOT CHORD 2-7=-2639/1104, 9-14=-146/322, 10-14=-146/322

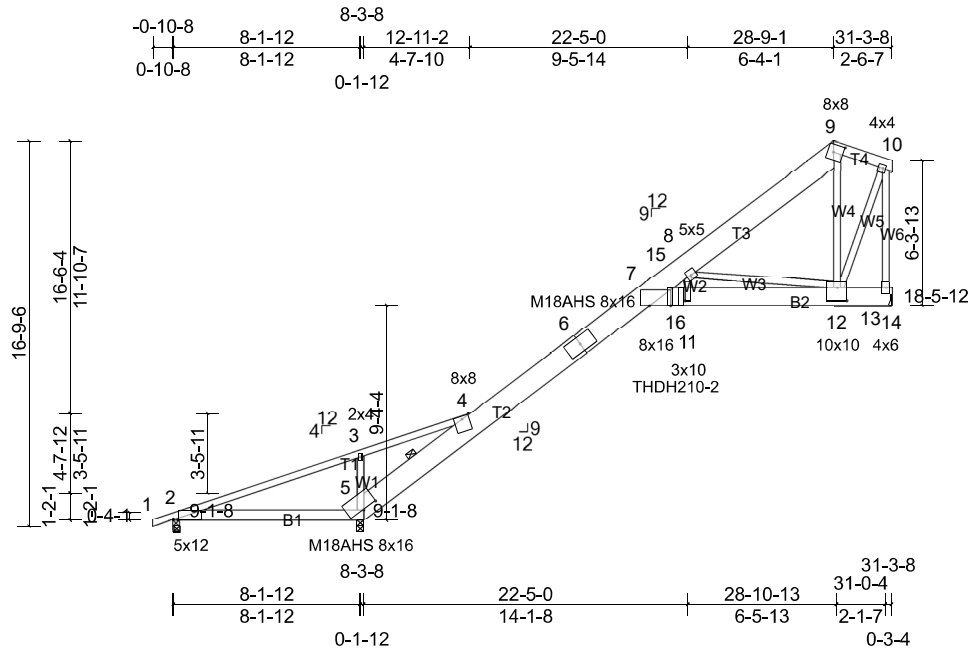
WEBS 3-7=-712/418, 5-10=-445/430, 6-10=-401/925

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior (1) 3-6-5 to 28-9-1, Exterior(2E) 28-9-1 to 31-0-4 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 683 lb uplift at joint 2, 809 lb uplift at joint 7 and 155 lb uplift at joint 11.
7) 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	109-25-129 COX
250593-A	B3	Roof Special Girder	1	3	Job Reference (optional)



Scale = 1:100.4

Plate Offsets (X, Y): [2:0-2-13,Edge], [5:0-7-12,0-0-2], [7:0-10-15,Edge], [9:0-5-2,0-4-0], [11:0-6-12,0-1-8], [12:0-5-0,0-6-12]

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	0.83	Vert(LL)	-0.29	7	>933	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.78	7	>348	240	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.55	13	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.12	7	>999	240	Weight: 759 lb	FT = 20%

LUMBER
TOP CHORD 2x12 SP 2400F 2.0E *Except* T1:2x4 SP 2400F 2.0E, T4:2x6 SP No.1
BOT CHORD 2x6 SP 2400F 2.0E *Except* B2:2x10 SP No.1
WEBS 2x4 SP No.2 *Except* W6:2x4 SP No.1

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

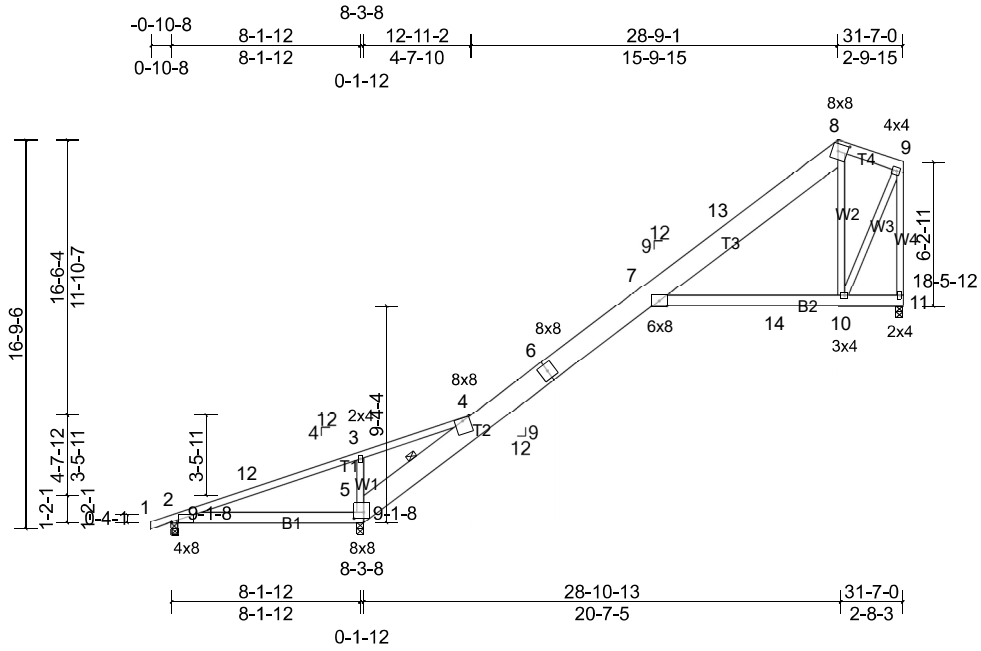
REACTIONS (lb/size) 2=-4834/0-3-8, (min. 0-1-8), 5=14017/0-3-8, (req. 0-3-14), 13=2944/ Mechanical
Max Horiz 2=675 (LC 27)
Max Uplift 2=-4834 (LC 1)
Max Grav 2=-2427 (LC 8), 5=14017 (LC 1), 13=2944 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/17113, 3-4=0/17062, 4-5=-20084/0, 4-6=-3052/0, 6-7=-1722/0, 7-15=-8304/0, 8-15=-8106/0, 8-9=-1112/0, 9-10=-1207/0, 10-13=-3436/0
BOT CHORD 2-5=-16137/0, 7-16=0/9907, 11-16=0/9907, 11-12=0/10163
WEBS 3-5=-2219/0, 8-11=0/2586, 8-12=-9145/0, 10-12=0/3447

NOTES
1) Special connection required to distribute bottom chord loads equally between all plies.
2) 3-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, 2x12 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x10 - 5 rows staggered at 0-4-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
3) 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.
4) Unbalanced roof live loads have been considered for this design.
5) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
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 30.0psf on the bottom chord in 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) WARNING: Required bearing size at joint(s) 5 greater than input bearing size.
10) Refer to girder(s) for truss to truss connections.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4834 lb uplift at joint 2.
12) Load case(s) 1 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) 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.
15) Use MiTek THDH210-2 (With 46-16d nails into Girder & 12-16d nails into Truss) or equivalent at 21-10-11 from the left end to connect truss(es) D1 (2 ply 2x10 SP) to back face of bottom chord.
16) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-4=-340, 4-5=-340, 4-15=-300, 9-15=-60, 9-10=-60, 2-5=-20, 7-14=-20
Concentrated Loads (lb)
Vert: 16=-4698 (B)

Job	Truss	Truss Type	Qty	Ply	109-25-129 COX
250593-A	B5	Roof Special	2	1	Job Reference (optional)



Scale = 1:99.5

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

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	0.98	Vert(LL)	-0.28	7	>981	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.48	7	>584	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.32	11	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.32	7	>877	240	Weight: 229 lb	FT = 20%

LUMBER
TOP CHORD 2x12 SP No.1 *Except* T1:2x4 SP No.1, T4:2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-13 oc bracing.

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

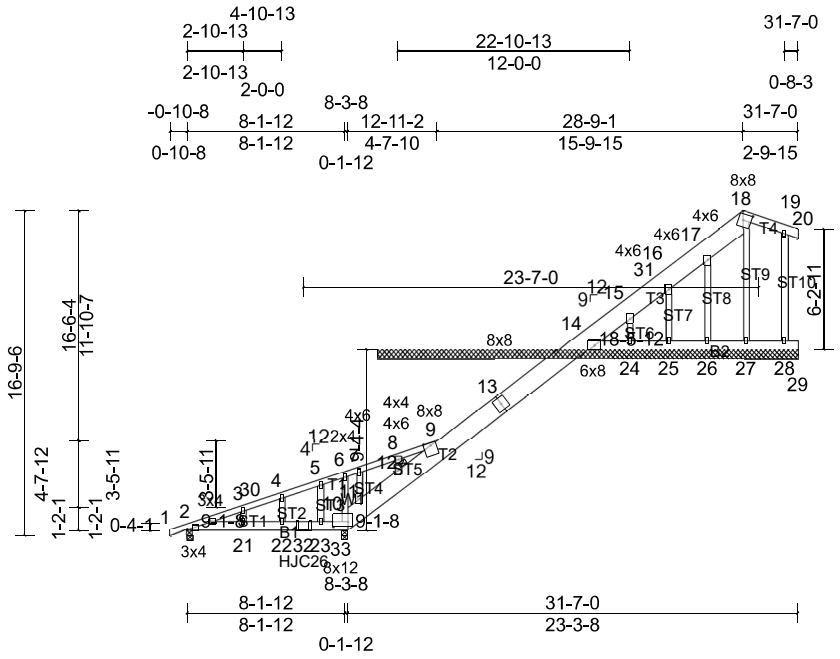
REACTIONS (lb/size) 2=-474/0-3-8, (min. 0-1-8), 5=2856/0-3-8, (min. 0-3-6), 11=627/0-3-8, (min. 0-1-8)
Max Horiz 2=672 (LC 12)
Max Uplift 2=-709 (LC 19), 5=-818 (LC 12), 11=-151 (LC 12)
Max Grav 2=401 (LC 12), 5=2856 (LC 1), 11=794 (LC 19)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-12=-2123/3033, 3-12=-2109/3106, 3-4=-1995/3088, 4-5=-3458/1529, 4-6=-467/0, 6-7=-298/38, 7-13=-372/0, 8-13=-258/5, 8-9=-356/162, 9-11=-869/371
BOT CHORD 2-5=-2719/1139, 7-14=-163/368, 10-14=-163/368
WEBS 3-5=-716/420, 8-10=-394/399, 9-10=-382/896

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior (1) 3-6-5 to 28-9-1, Exterior(2E) 28-9-1 to 31-5-4 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 709 lb uplift at joint 2, 818 lb uplift at joint 5 and 151 lb uplift at joint 11.
6) 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	109-25-129 COX
250593-A	B6	Roof Special Supported Gable	1	1	Job Reference (optional)



Scale = 1:119.2

Plate Offsets (X, Y): [2:0-2-15,Edge], [10:0-9-0,0-3-4], [18:0-5-2,0-4-0]

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	0.45	Vert(LL)	-0.08	21-22	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.16	21-22	>594	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	-0.01	20	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.13	21-22	>729	240	Weight: 242 lb	FT = 20%

LUMBER
TOP CHORD 2x12 SP No.1 *Except* T1:2x4 SP No.1, T4:2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 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 8-5-15 oc bracing.
JOINTS 1 Brace at Jt(s): 12

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

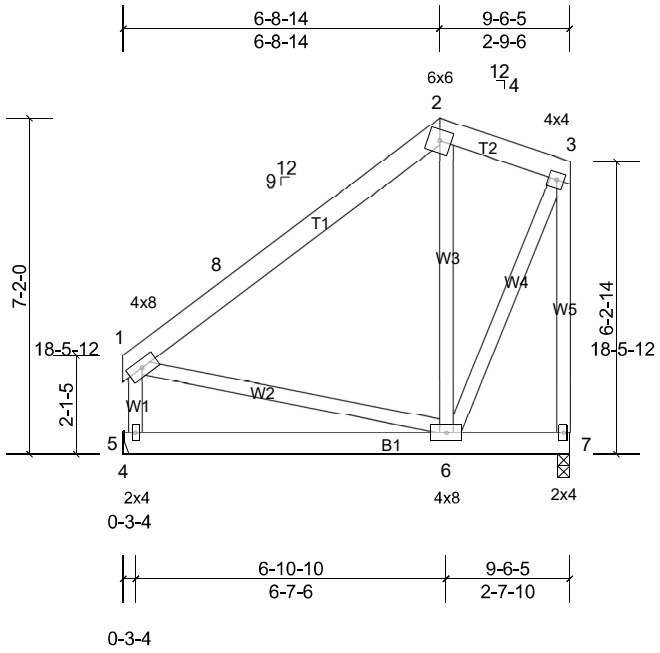
REACTIONS All bearings 21-8-8. except 2=0-3-8, 10=0-3-8
(lb) - Max Horiz 2=953 (LC 12)
Max Uplift All uplift 100 (lb) or less at joint(s) 20, 26, 27, 28, 29 except 2=-256 (LC 8), 8=-427 (LC 26), 9=-470 (LC 12), 10=-675 (LC 8), 14=-364 (LC 33), 25=-112 (LC 33)
Max Grav All reactions 250 (lb) or less at joint (s) 8, 20, 24, 25, 26, 27, 28, 29 except 2=489 (LC 1), 9=784 (LC 1), 10=1592 (LC 1), 14=485 (LC 19)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-445/147, 3-30=-411/132, 4-30=-402/137, 4-5=-381/124, 5-6=-326/122, 6-7=-414/208, 7-8=-354/191, 8-9=-291/188, 10-11=-689/309, 11-12=-651/296, 9-12=-712/471, 9-13=-519/194, 13-14=-496/257, 14-15=-250/86
BOT CHORD 2-21=-678/359, 21-22=-678/359, 22-32=-678/359, 23-32=-678/359, 23-33=-709/396, 10-33=-718/407
WEBS 8-12=-417/226, 6-10=-647/317

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior (1) 3-6-5 to 28-9-1, Exterior(2E) 28-9-1 to 31-7-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 (||) MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in 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) Bearing at joint(s) 14, 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 100 lb uplift at joint (s) 20, 29, 27, 26, 28 except (jt=lb) 9=470, 2=255, 10=674, 14=364, 25=111, 8=426.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Use MiTek HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent at 6-0-6 from the left end to connect truss(es) J06 (1 ply 2x4 SP), CJ08 (1 ply 2x6 SP) to back face of bottom chord.
12) Fill all nail holes where hanger is in contact with lumber.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 203 lb down and 110 lb up at 7-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-6=-60, 6-9=-100, 9-10=-100, 9-18=-60, 18-20=-60, 2-10=-20, 14-29=-20
Concentrated Loads (lb)
Vert: 32=-528 (B), 33=-203

Job	Truss	Truss Type	Qty	Ply	109-25-129 COX
250593-A	B7	Roof Special	3	1	Job Reference (optional)



Scale = 1:49.2

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	0.29	Vert(LL)	-0.01	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.03	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.00	5-6	>999	240	Weight: 88 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 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.

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

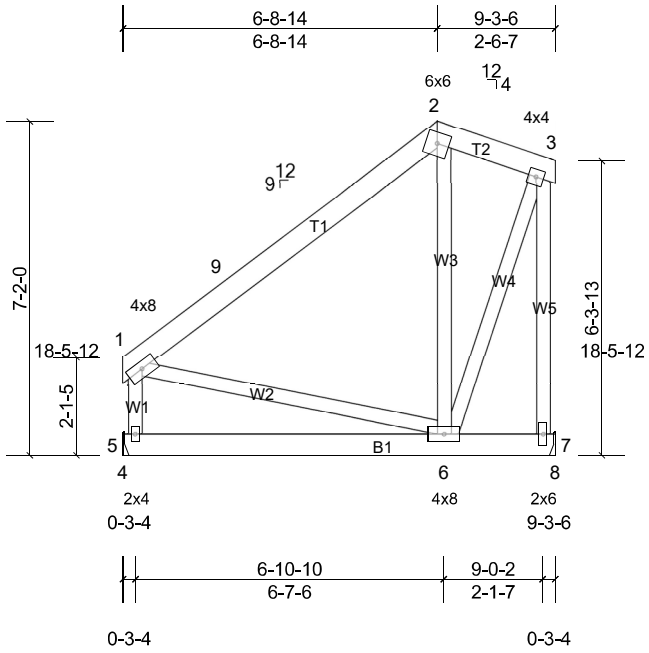
REACTIONS (lb/size) 5=370/ Mechanical, 7=364/0-3-0, (min. 0-1-8)
Max Horiz 5=141 (LC 12)
Max Uplift 7=-74 (LC 12)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-271/0, 3-7=-358/397, 1-5=-299/126
BOT CHORD 5-6=-442/169
WEBS 2-6=-190/379, 3-6=-391/328, 1-6=-47/288

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 1-9-12 to 6-2-9, Interior (1) 6-2-9 to 8-3-6, Exterior(2E) 8-3-6 to 10-11-1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 7.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 7.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	109-25-129 COX
250593-A	B8	Roof Special	8	1	Job Reference (optional)



Scale = 1:49.5

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	0.29	Vert(LL)	-0.01	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.03	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.00	5-6	>999	240	Weight: 87 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 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.

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

REACTIONS (lb/size) 5=355/ Mechanical, 7=355/ Mechanical
Max Horiz 5=144 (LC 12)
Max Uplift 7=-77 (LC 12)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-253/0, 3-7=-349/403, 1-5=-284/107
BOT CHORD 5-6=-457/174
WEBS 2-6=-207/416, 3-6=-421/338, 1-6=-64/316

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 1-9-12 to 6-2-9, Interior (1) 6-2-9 to 8-3-6, Exterior(2E) 8-3-6 to 10-6-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 7.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	109-25-129 COX
250593-A	C1	Flat Girder	1	2	Job Reference (optional)

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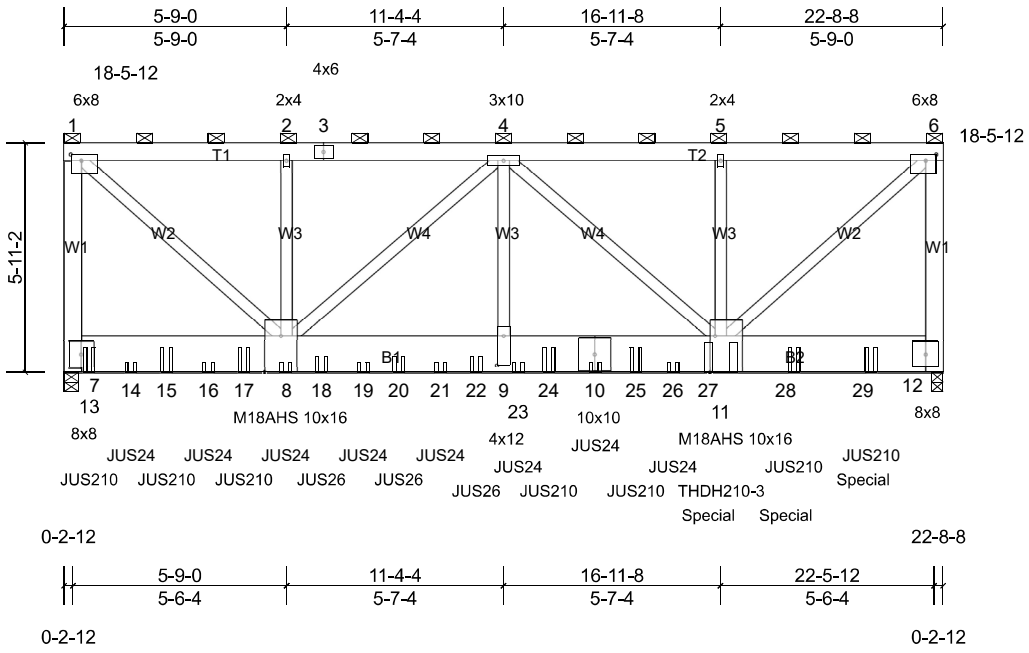

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Plate Offsets (X, Y): [1:0-3-4,0-2-0], [6:0-3-4,0-2-0], [8:0-11-0,0-5-0], [9:0-9-0,0-2-0], [11:0-11-0,0-1-8]

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	0.52	Vert(LL)	-0.10	9-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.21	9-11	>999	240	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.02	12	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.03	9	>999	240	Weight: 488 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.1
BOT CHORD 2x12 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except* W1:2x6 SP No.1, W2:2x4 SP No.1

BRACING
TOP CHORD 2-0-0 oc purlins (5-7-13 max.): 1-6, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 7=8202/0-4-8, (min. 0-1-10), 12=9399/0-3-8, (min. 0-1-13)
Max Grav 7=8693 (LC 2), 12=9804 (LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-7=-6783/0, 1-2=-7076/0, 2-3=-7076/0, 3-4=-7076/0, 4-5=-8502/0, 5-6=-8502/0, 6-12=-8133/0
BOT CHORD 8-18=0/9927, 18-19=0/9927, 19-20=0/9927, 20-21=0/9927, 21-22=0/9927, 9-22=0/9927, 9-23=0/9927, 23-24=0/9927, 10-24=0/9927, 10-25=0/9927, 25-26=0/9927, 26-27=0/9927, 11-27=0/9927
WEBS 1-8=0/9604, 2-8=-280/166, 4-8=-3898/0, 4-9=0/3648, 4-11=-1949/0, 6-11=0/11533

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.
Bottom chords connected as follows: 2x12 - 5 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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in 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) 7, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Use MiTek JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-8-12 from the left end to 15-8-12 to connect truss(es) B8 (1 ply 2x6 SP) to front face of bottom chord.
12) Use MiTek THDH210-3 (With 46-16d nails into Girder & 16-16d nails into Truss) or equivalent at 16-11-12 from the left end to connect truss(es) B3 (3 ply 2x10 SP) to front face of bottom chord.
13) Use MiTek JUS210 (With 8-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 18-10-4 from the left end to 20-10-4 to connect truss(es) B2 (1 ply 2x6 SP) to front face of bottom chord.
14) Use MiTek JUS210 (With 8-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 7-10-8 oc max. starting at 0-7-12 from the left end to 14-9-4 to connect truss(es) A2 (1 ply 2x10 SP), A3 (1 ply 2x10 SP) to back face of bottom chord.
15) Use MiTek JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 6-7-12 from the left end to 10-7-12 to connect truss(es) A2 (1 ply 2x10 SP) to back face of bottom chord.
16) Fill all nail holes where hanger is in contact with lumber.
17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 953 lb down at 16-7-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-6=-60, 7-12=-20
Concentrated Loads (lb)
Vert: 10=-335 (F), 8=-335 (F), 11=-2924 (F), 13=-811 (B), 14=-335 (F), 15=-805 (B), 16=-335 (F), 17=-805 (B), 18=-805 (B), 19=-335 (F), 20=-805 (B), 21=-335 (F), 22=-805 (B), 23=-335 (F), 24=-887 (B), 25=-887 (B), 26=-335 (F), 27=-805 (B), 28=-1402 (F=-597, B=-805), 29=-1402 (F=-597, B=-805)

Job	Truss	Truss Type	Qty	Ply	109-25-129 COX
250593-A	CJ08	Diagonal Hip Girder	2	1	Job Reference (optional)

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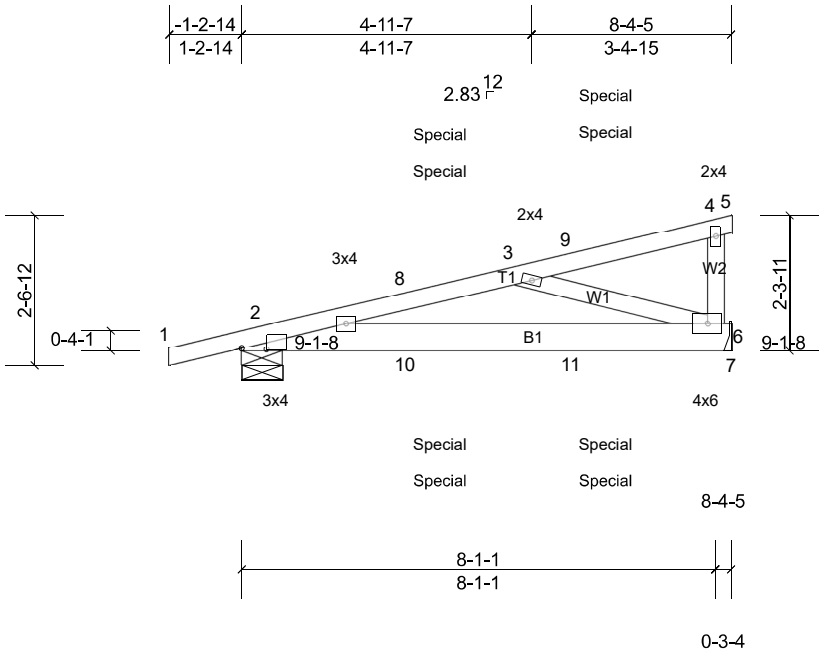

Scale = 1:39.4

0-3-4

Plate Offsets (X, Y): [2:0-5-3,0-0-3]

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	0.16	Vert(LL)	-0.06	2-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.11	2-6	>830	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P		Wind(LL)	0.05	2-6	>999	240	Weight: 42 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 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.

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

REACTIONS (lb/size) 2=431/0-8-6, (min. 0-1-8), 6=348/ Mechanical
Max Horiz 2=78 (LC 25)
Max Uplift 2=-181 (LC 4), 6=-135 (LC 4)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-566/184, 3-8=-531/191
BOT CHORD 2-10=-226/521, 10-11=-226/521, 6-11=-226/521
WEBS 3-6=-545/236

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 135 lb uplift at joint 6 and 181 lb uplift at joint 2.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 29 lb down and 24 lb up at 2-9-8, 29 lb down and 24 lb up at 2-9-8, and 74 lb down and 49 lb up at 5-7-7, and 74 lb down and 49 lb up at 5-7-7 on top chord, and 2 lb down at 2-9-8, 2 lb down at 2-9-8, and 20 lb down at 5-7-7, and 20 lb down at 5-7-7 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-60, 4-5=-20, 2-7=-20
Concentrated Loads (lb)
Vert: 9=-36 (F=-18, B=-18), 11=-17 (F=-9, B=-9)

Job	Truss	Truss Type	Qty	Ply	109-25-129 COX
250593-A	D1	Flat Girder	1	2	Job Reference (optional)

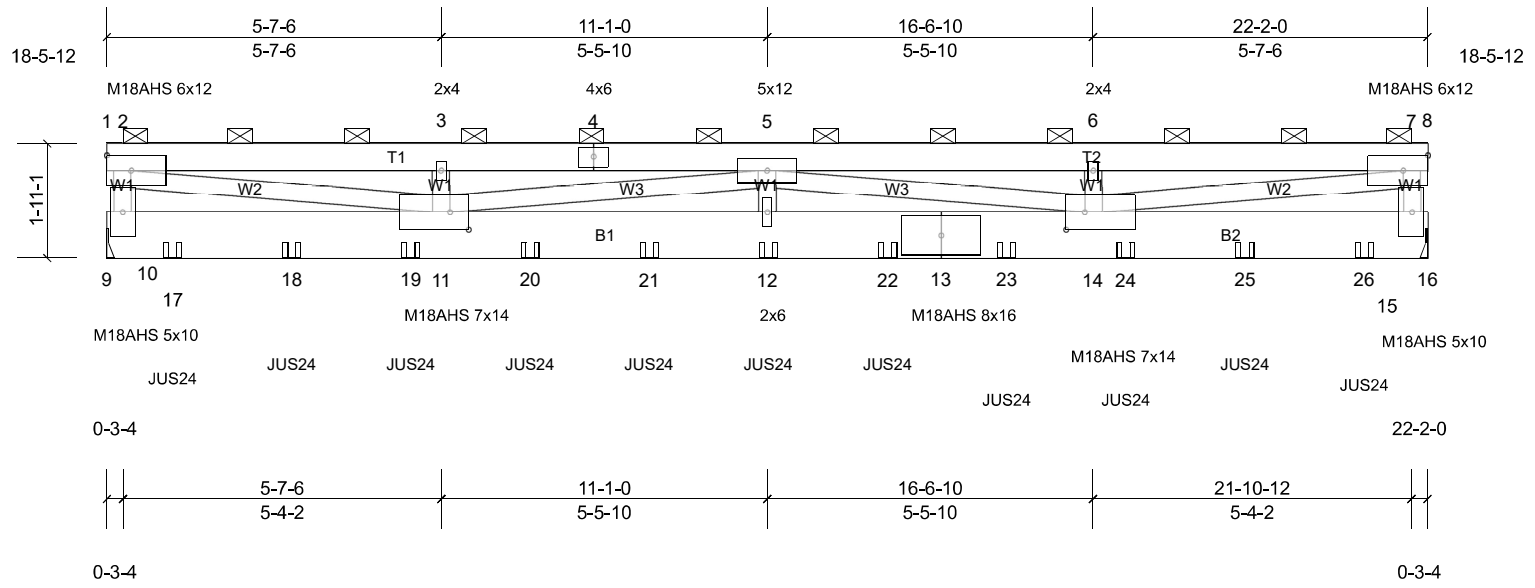

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Plate Offsets (X, Y): [11:0-3-12,0-3-8], [14:0-3-12,0-3-8]

Loading	(psf)	Spacing	6-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.33	12	>782	360	M18AHS	186/179
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.74	12	>349	240	MT20	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.05	15	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.16	12	>999	240	Weight: 349 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except* W2:2x4 SP 2400F 2.0E

BRACING
TOP CHORD 2-0-0 oc purlins (3-8-4 max.), except end verticals
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

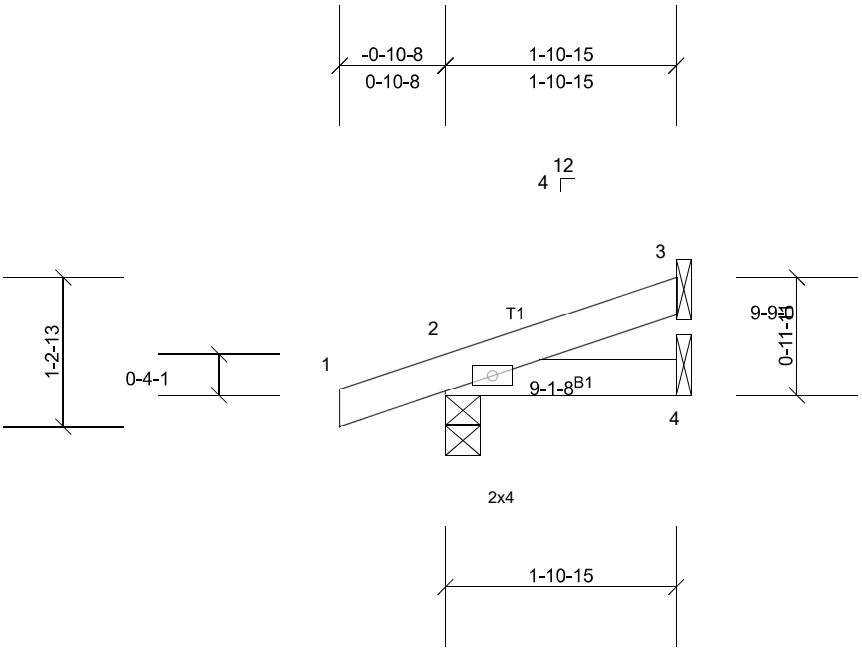
REACTIONS (lb/size) 10=4786/ Mechanical, 15=4758/ Mechanical

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-10=-3612/0, 2-3=-13153/0, 3-4=-13153/0, 4-5=-13153/0, 5-6=-13112/0, 6-7=-13112/0, 7-15=-3602/0
BOT CHORD 10-17=0/934, 17-18=0/934, 18-19=0/934, 11-19=0/934, 11-20=0/19116, 20-21=0/19116, 12-21=0/19116, 12-22=0/19116, 13-22=0/19116, 13-23=0/19116, 14-23=0/19116, 14-24=0/929, 24-25=0/929, 25-26=0/929, 15-26=0/929
WEBS 2-11=0/12579, 3-11=-854/394, 5-11=-6132/0, 5-12=0/889, 5-14=-6173/0, 6-14=-856/393, 7-14=0/12543

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, 2x6 - 2 rows staggered at 0-7-0 oc.
Bottom chords connected as follows: 2x10 - 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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in 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) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Use MiTek JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-1-4 from the left end to 7-1-4 to connect truss(es) B7 (1 ply 2x6 SP), B8 (1 ply 2x6 SP) to back face of bottom chord.
12) Use MiTek JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 9-1-4 from the left end to 21-1-4 to connect truss(es) B8 (1 ply 2x6 SP) to back face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1000 lb down at 11-1-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-7=-180, 7-8=-60, 9-16=-60
Concentrated Loads (lb)
Vert: 5=-1000 (F), 12=-295 (B), 17=-310 (B), 18=-310 (B), 19=-310 (B), 20=-295 (B), 21=-295 (B), 22=-295 (B), 23=-295 (B), 24=-295 (B), 25=-295 (B), 26=-295 (B)

Job	Truss	Truss Type	Qty	Ply	109-25-129 COX
250593-A	J01	Jack-Open	4	1	Job Reference (optional)



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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	0.04	Vert(LL)	0.00	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	2-4	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 7 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 1-10-15 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.

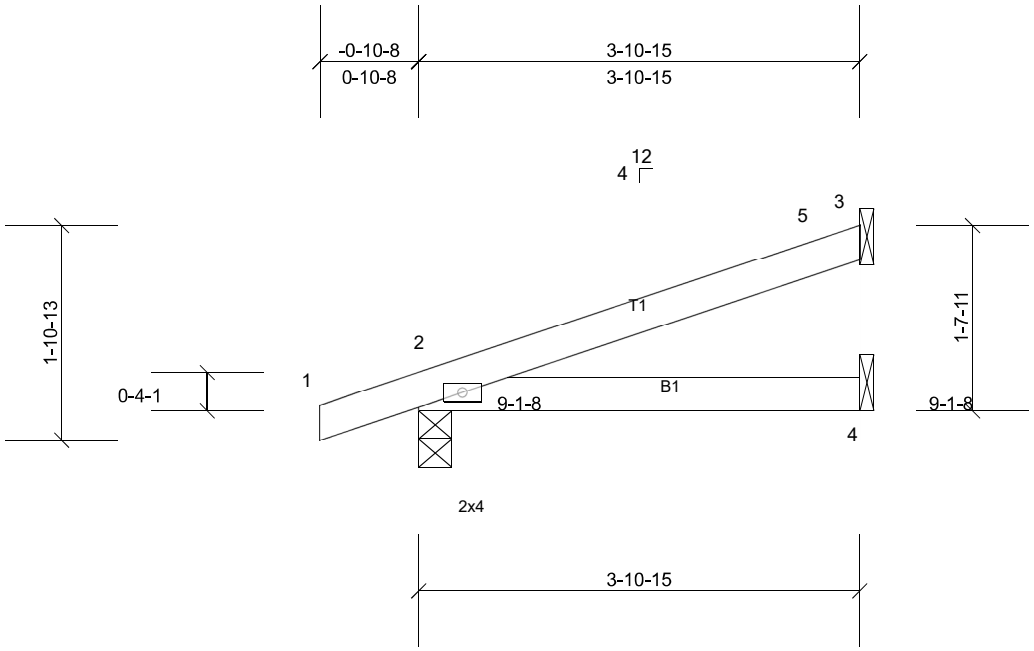
REACTIONS (lb/size) 2=142/0-3-8, (min. 0-1-8), 3=43/ Mechanical, 4=19/ Mechanical
Max Horiz 2=34 (LC 8)
Max Uplift 2=-45 (LC 8), 3=-20 (LC 12)
Max Grav 2=142 (LC 1), 3=43 (LC 1), 4=37 (LC 3)

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

NOTES
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 3 and 45 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	109-25-129 COX
250593-A	J03	Jack-Open	4	1	Job Reference (optional)



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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)	-0.01	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	2-4	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 13 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-10-15 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=218/0-3-8, (min. 0-1-8), 3=103/ Mechanical, 4=37/ Mechanical
Max Horiz 2=55 (LC 8)
Max Uplift 2=-51 (LC 8), 3=-44 (LC 12)
Max Grav 2=218 (LC 1), 3=103 (LC 1), 4=74 (LC 3)

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

NOTES
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior (1) 3-6-5 to 3-10-3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 3 and 51 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	109-25-129 COX
250593-A	J06	Monopitch	2	1	Job Reference (optional)

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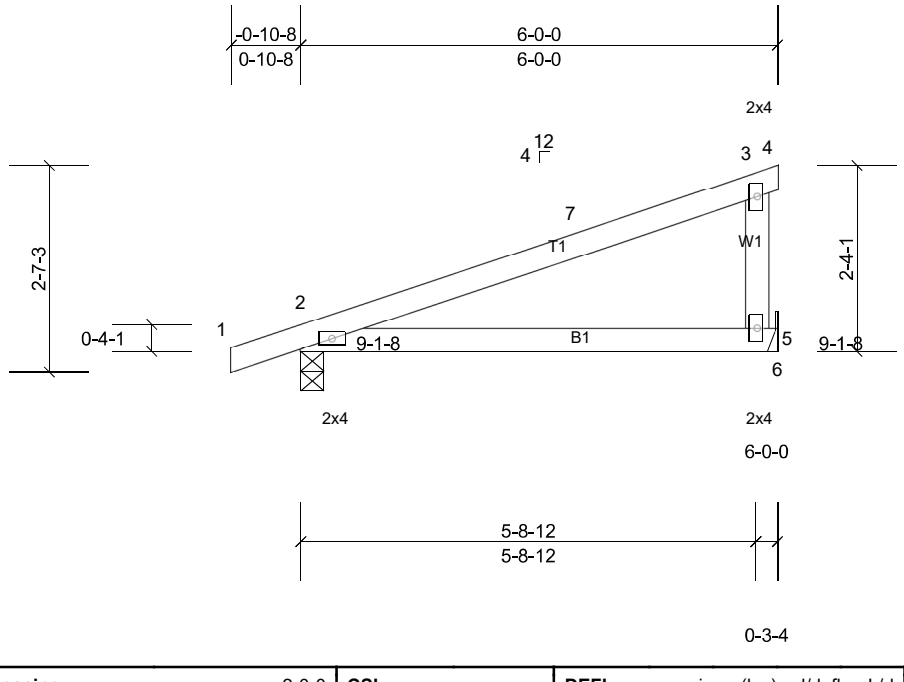

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0-3-4

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	0.50	Vert(LL)	-0.05	2-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.10	2-5	>661	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Wind(LL)	0.07	2-5	>999	240		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 22 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
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.

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

REACTIONS (lb/size) 2=290/0-3-8, (min. 0-1-8), 5=229/ Mechanical
Max Horiz 2=78 (LC 8)
Max Uplift 2=-115 (LC 8), 5=-95 (LC 8)

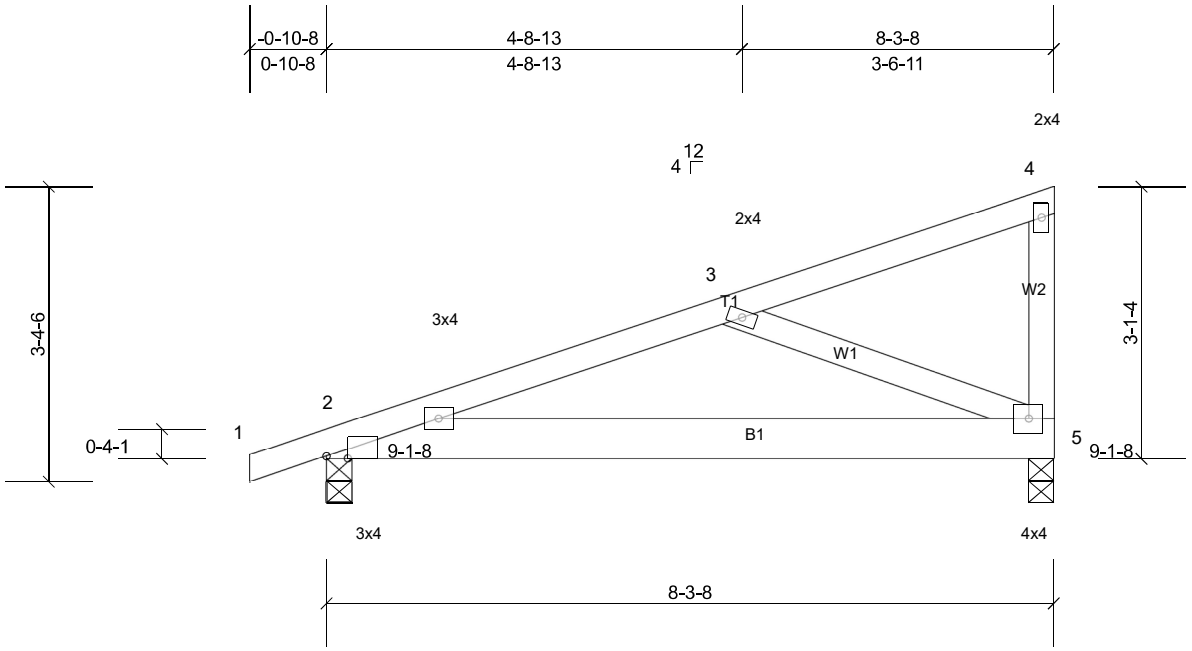
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-167/281

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior (1) 3-6-5 to 6-0-0 zone; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 5 and 115 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	109-25-129 COX
250593-A	M01	Monopitch	11	1	Job Reference (optional)



Scale = 1:26.3

Plate Offsets (X, Y): [2:0-2-15,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	0.18	Vert(LL)	-0.06	2-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.11	2-5	>867	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P		Wind(LL)	0.07	2-5	>999	240	Weight: 43 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 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.

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

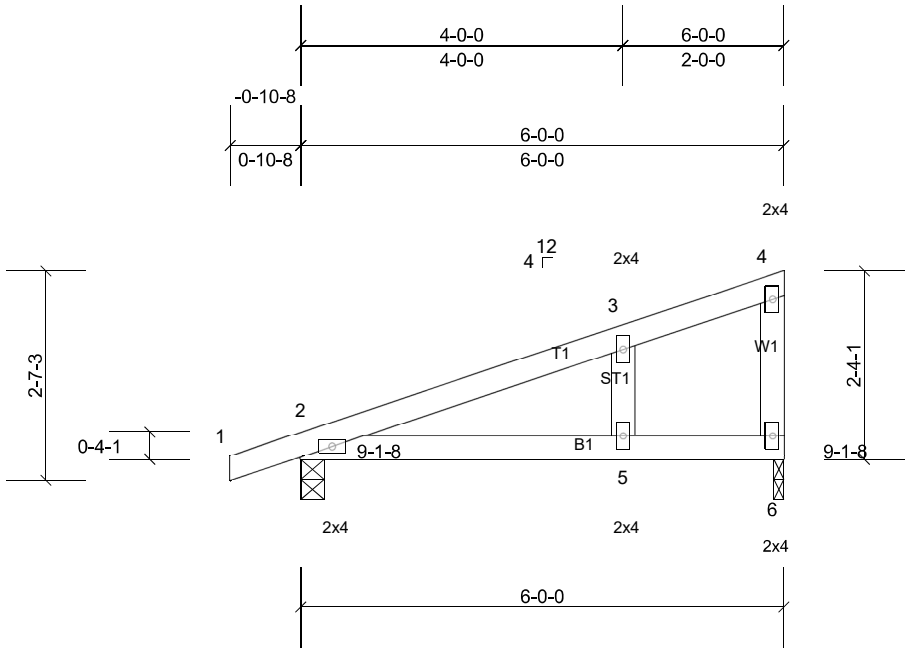
REACTIONS (lb/size) 2=385/0-3-8, (min. 0-1-8), 5=316/0-3-8, (min. 0-1-8)
Max Horiz 2=103 (LC 8)
Max Uplift 2=-149 (LC 8), 5=-135 (LC 8)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-445/348
BOT CHORD 2-5=-478/388
WEBS 3-5=-418/515

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior (1) 3-6-5 to 8-1-12 zone; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 135 lb uplift at joint 5 and 149 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	109-25-129 COX
250593-A	M02	Monopitch Supported Gable	2	1	Job Reference (optional)



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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)	-0.05	2-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.11	2-5	>647	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Wind(LL)	0.08	2-5	>829	240		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 24 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 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 (lb/size) 2=295/0-3-8, (min. 0-1-8), 6=223/0-1-8, (min. 0-1-8)
Max Horiz 2=77 (LC 8)
Max Uplift 2=-54 (LC 8), 6=-34 (LC 12)

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

NOTES
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior (1) 3-6-5 to 5-10-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Gable studs spaced at 2-0-0 oc.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 2 and 34 lb uplift at joint 6.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	109-25-129 COX
250593-A	M03	Monopitch	40	1	Job Reference (optional)

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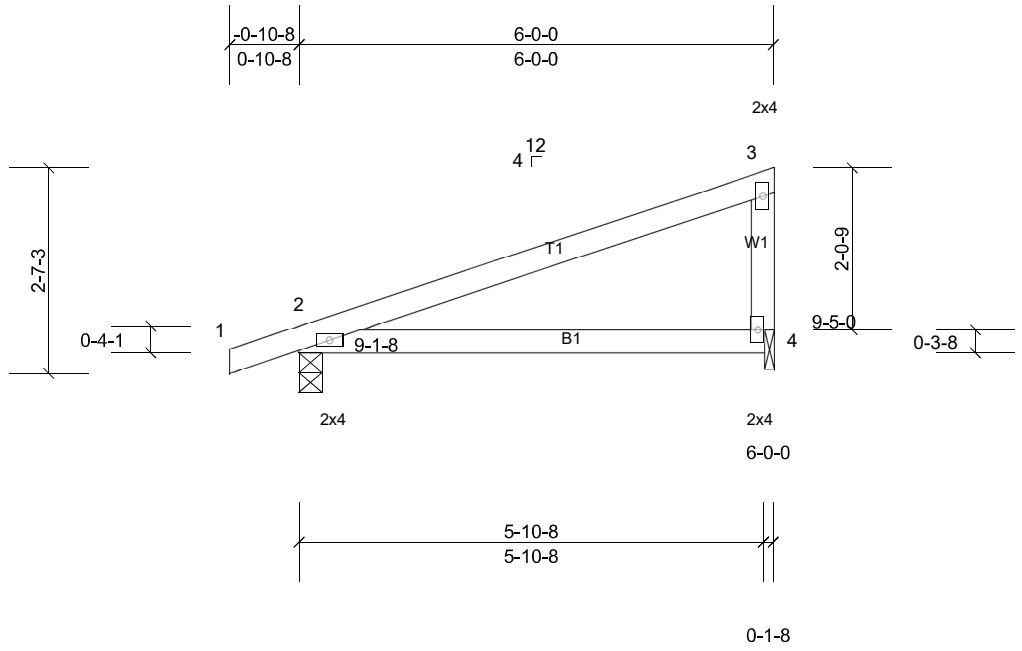


Scale = 1:29.2

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	0.45	Vert(LL)	-0.06	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.11	2-4	>615	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Wind(LL)	0.07	2-4	>947	240		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 22 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1
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.

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

REACTIONS (lb/size) 2=295/0-3-8, (min. 0-1-8), 4=223/0-1-8, (min. 0-1-8)
Max Horiz 2=77 (LC 8)
Max Uplift 2=-117 (LC 8), 4=-96 (LC 8)

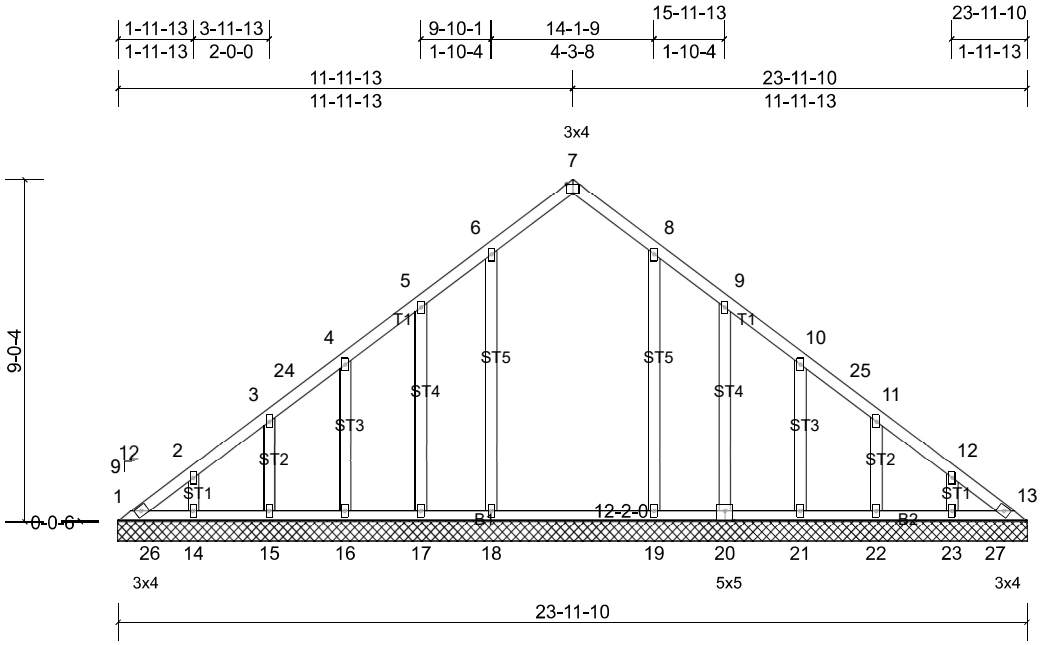
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior (1) 3-6-5 to 5-10-4 zone; 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) 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.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 2 and 96 lb uplift at joint 4.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	109-25-129 COX
250593-A	V24	Valley	1	1	Job Reference (optional)



Scale = 1:60.8

Plate Offsets (X, Y): [7:0-2-0,Edge], [20:0-2-8,0-3-0]

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	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.23	Horiz(TL)	0.03	13	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 137 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
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 23-11-10.
(lb) - Max Horiz 1=-208 (LC 8)
Max Uplift All uplift 100 (lb) or less at joint(s) 14, 15, 16, 21, 22, 23 except 17=-122 (LC 12), 20=-124 (LC 13)
Max Grav All reactions 250 (lb) or less at joint (s) 14, 15, 16, 17, 20, 21, 22, 23 except 1=591 (LC 12), 13=588 (LC 13), 18=530 (LC 19), 19=521 (LC 20)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1079/0, 2-3=-989/0, 3-24=-892/0, 4-24=-884/0, 4-5=-879/0, 5-6=-830/0, 6-7=-899/0, 7-8=-899/0, 8-9=-819/0, 9-10=-870/0, 10-25=-884/0, 11-25=-892/0, 11-12=-988/0, 12-13=-1078/0
BOT CHORD 1-26=0/884, 14-26=0/884, 14-15=0/884, 15-16=0/884, 16-17=0/884, 17-18=0/884, 18-19=0/884, 19-20=0/884, 20-21=0/884, 21-22=0/884, 22-23=0/884, 23-27=0/884, 13-27=0/884
WEBS 6-18=-265/0, 8-19=-256/0

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner (3E) 0-5-5 to 4-10-1, Exterior(2N) 4-10-1 to 12-0-5, Corner(3R) 12-0-5 to 16-5-2, Exterior(2N) 16-5-2 to 23-7-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 2x4 (||) MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 16, 15, 14, 21, 22, 23 except (jt=lb) 17=121, 20=124.
8) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-7=-60, 7-13=-60, 1-13=-20
Concentrated Loads (lb)
Vert: 7=-1000