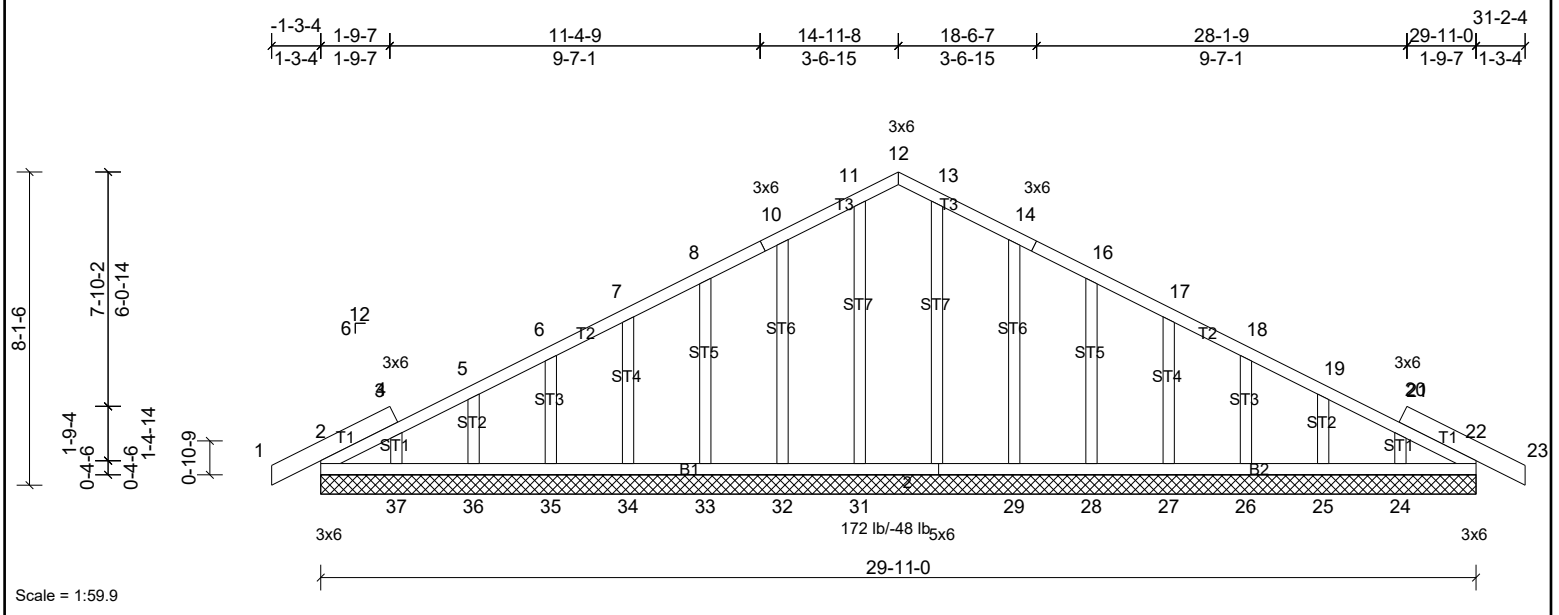
Job	Truss	Truss Type	Qty	Ply	
72410547	A1	Truss	1	1	GREEN-R-PANEL PREFAB RESIDENTIAL FRAMING SYSTEMS



Scale = 1:59.9

Plate Offsets (X, Y): [3:0-5-2,0-1-0], [12:0-3-0,Edge], [21:0-5-2,0-1-0], [22:Edge,0-6-0], [30:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	22	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 190 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2 *Except* T1:2x6 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3

BRACING

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

REACTIONS All bearings 29-11-0.

(lb) - Max Horiz 2=105 (LC 10), 38=105 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 24, 25, 26, 27, 28, 29, 32, 33, 34, 35, 36, 37, 38

Max Grav All reactions 250 (lb) or less at joint(s) 2, 22, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 42

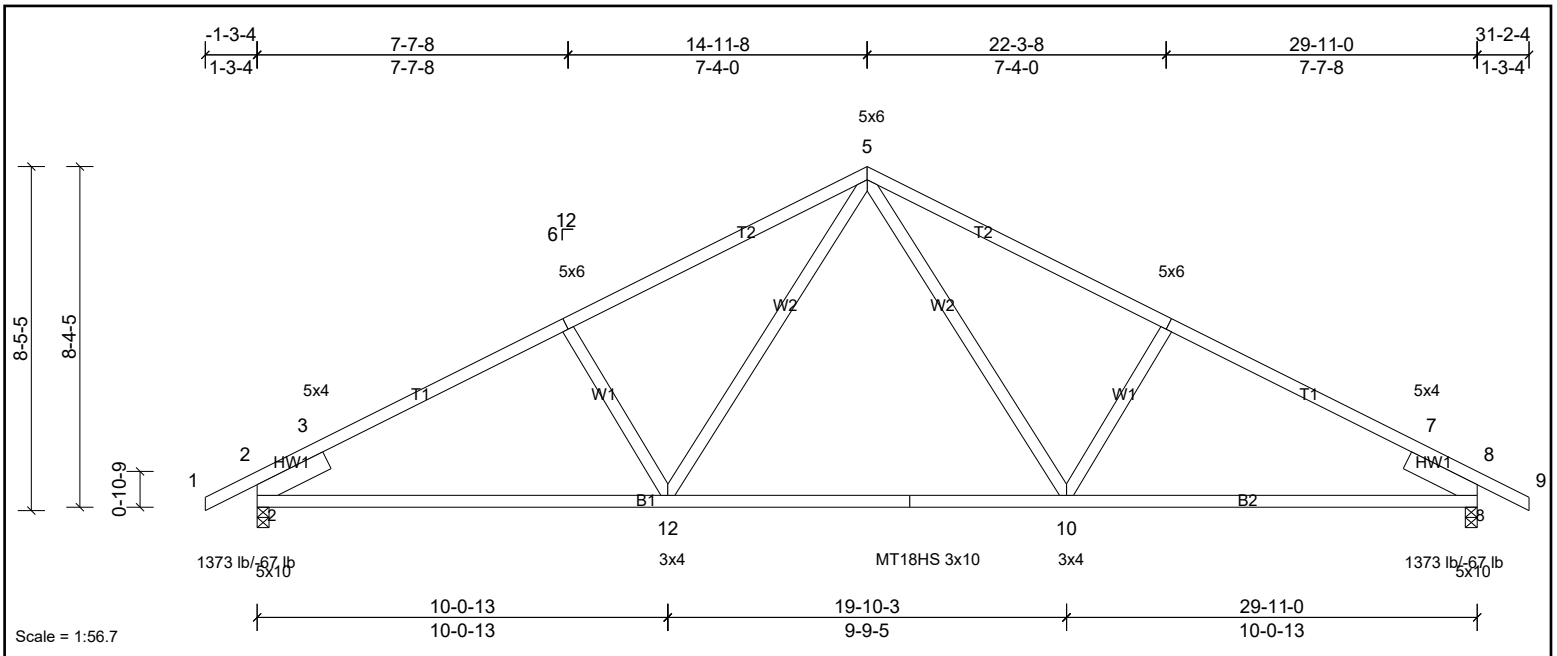
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-3-4 to 1-11-8, Exterior(2N) 1-11-8 to 11-11-8, Corner(3R) 11-11-8 to 17-11-8, Exterior(2N) 17-11-8 to 27-11-8, Corner(3E) 27-11-8 to 31-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only.
4) All plates are 2x3 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 20.0psf on the bottom chord in 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) Solid blocking is required on both sides of the truss at joint(s), 2.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 32, 33, 34, 35, 36, 37, 29, 28, 27, 26, 25, 24, 2.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
72410547	A2	Truss	7	1	GREEN-R-PANEL PREFAB RESIDENTIAL FRAMING SYSTEMS



Scale = 1:56.7

Plate Offsets (X, Y): [2:0-6-10,Edge], [4:0-3-0,0-3-0], [6:0-3-0,0-3-0], [8:0-6-10,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	0.82	Vert(LL)	-0.39	10-12	>928	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.61	10-12	>589	180	MT18HS	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.09	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 149 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.1
BOT CHORD	2x4 SP No.1
WEBS	2x4 SP No.3
SLIDER	Left 2x6 SP No.2 -- 1-11-0, Right 2x6 SP No.2 -- 1-11-0

BRACING

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

REACTIONS (lb/size) 2=1273/0-3-8, (min. 0-1-10), 8=1273/0-3-8, (min. 0-1-10)
Max Horiz 2=111 (LC 10)
Max Uplift 2=-67 (LC 10), 8=-67 (LC 11)
Max Grav 2=1373 (LC 2), 8=1373 (LC 2)

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

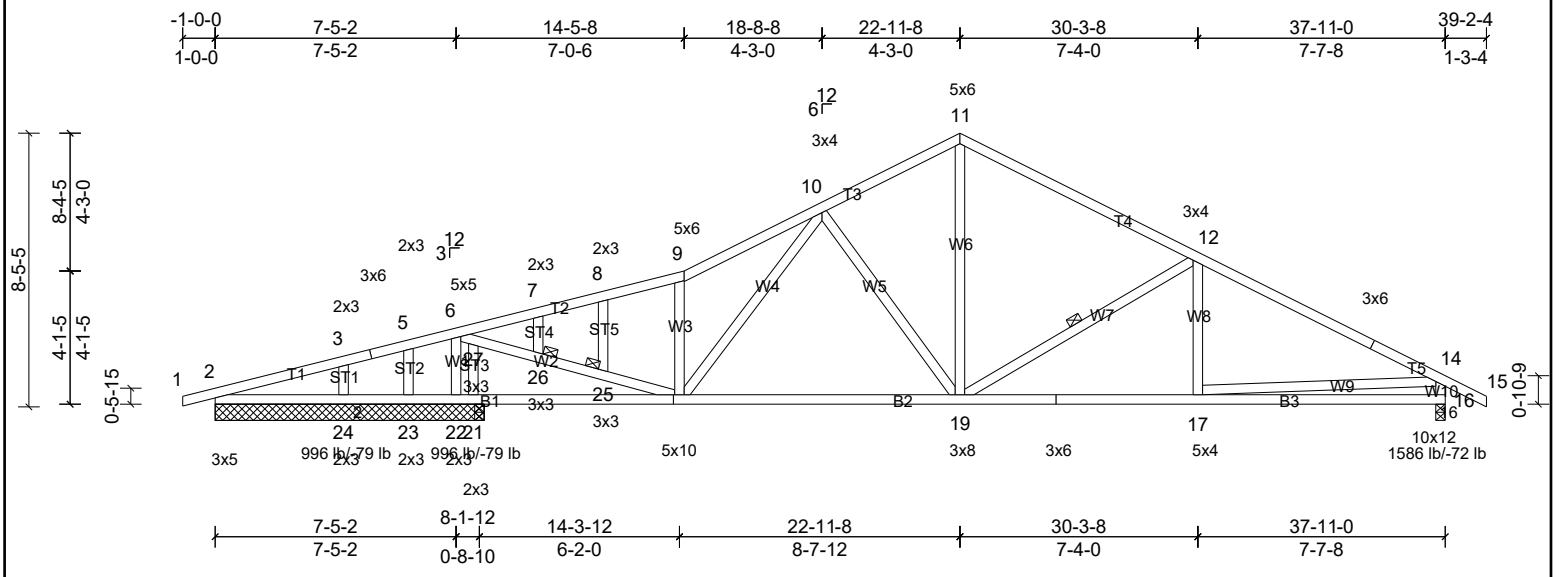
TOP CHORD	2-3=-718/0, 3-21=-2241/98, 4-21=-2234/131, 4-22=-2083/146, 5-22=-1984/163, 5-23=-1984/163, 6-23=-2083/146, 6-24=-2234/131, 7-24=-2241/98, 7-8=-575/0
BOT CHORD	2-12=-202/1918, 12-25=0/1330, 11-25=0/1330, 11-26=0/1330, 10-26=0/1330, 8-10=-13/1918
WEBS	6-10=-382/195, 4-12=-382/195, 5-10=-65/792, 5-12=-64/792

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-3-4 to 1-8-12, Interior (1) 1-8-12 to 11-11-8, Exterior(2R) 11-11-8 to 17-11-8, Interior (1) 17-11-8 to 28-2-4, Exterior(2E) 28-2-4 to 31-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 8 and 67 lb uplift at joint 2.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
72410547	A3	Truss	1	1	GREEN-R-PANEL PREFAB RESIDENTIAL FRAMING SYSTEMS



Scale = 1:71.3

Plate Offsets (X, Y): [16:Edge,0-7-13], [20:0-4-4,0-3-0]

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	1.00	Vert(LL)	-0.24	19-20	>999	240	MT20	244/190
TCDL	18.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.46	19-20	>783	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.04	16	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 213 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* W2:2x4 SP SS
OTHERS	2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 12-19
JOINTS	1 Brace at Jt(s): 25, 26

REACTIONS All bearings 8-3-8. except 16=0-3-8

(lb) - Max Horiz 2=104 (LC 14), 28=104 (LC 14)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 16, 21, 22, 23, 24, 28

Max Grav All reactions 250 (lb) or less at joint(s) 2, 23, 28 except 16=1587 (LC 2), 21=996 (LC 2), 22=933 (LC 2), 24=463 (LC 2)

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

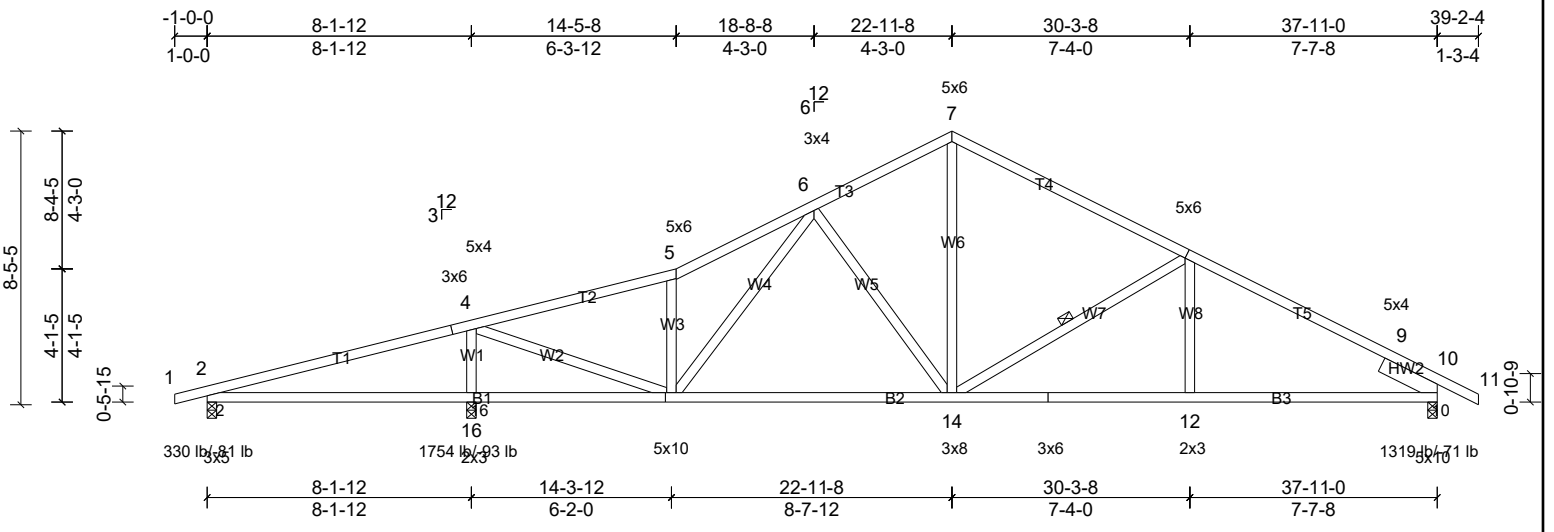
TOP CHORD	2-31=-65/602, 3-31=-60/640, 3-4=-36/565, 4-5=-31/592, 5-6=-32/632, 6-7=-2164/157, 7-8=-2175/173, 8-9=-2141/185, 9-10=-2431/262, 10-32=-1798/220, 11-32=-1685/240, 11-33=-1726/227, 12-33=-1854/211, 12-13=-2342/212, 13-34=-2479/183, 14-34=-2541/176, 14-16=-1581/235
BOT CHORD	2-24=-568/88, 23-24=-568/88, 22-23=-568/88, 21-22=-568/88, 20-21=-568/88, 20-35=-21/1818, 35-36=-21/1818, 19-36=-21/1818, 18-19=-47/2175, 17-18=-47/2175, 16-17=-77/625
WEBS	6-22=-1264/32, 6-27=-73/2546, 26-27=-127/2801, 25-26=-117/2745, 20-25=-112/2743, 9-20=-860/141, 10-20=-37/476, 10-19=-523/133, 11-19=-66/1143, 12-19=-771/150, 14-17=-28/1555, 21-27=-693/161, 3-24=-323/77

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 19-11-8, Exterior(2R) 19-11-8 to 25-11-8, Interior (1) 25-11-8 to 36-2-4, Exterior(2E) 36-2-4 to 39-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only.
4) All plates are 2x3 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 20.0psf on the bottom chord in 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 100 lb uplift at joint(s) 2, 22, 16, 21, 23, 24, 2.
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
72410547	A4	Truss	11	1	GREEN-R-PANEL PREFAB RESIDENTIAL FRAMING SYSTEMS



Scale = 1:71.3

Plate Offsets (X, Y): [8:0-3-0,0-3-0], [10:0-6-10,Edge], [15:0-4-4,0-3-0]

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	0.86	Vert(LL)	0.08	16-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.43	14-15	>831	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 194 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2 *Except* T5:2x4 SP No.1
BOT CHORD	2x4 SP No.2 *Except* B3:2x4 SP No.1
WEBS	2x4 SP No.3
SLIDER	Right 2x6 SP No.2 -- 1-11-0

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 8-14

REACTIONS (lb/size) 2=301/0-3-8, (min. 0-1-8), 10=1244/0-3-8, (min. 0-1-9), 16=1624/0-3-8, (min. 0-2-1)
Max Horiz 2=-113 (LC 15)
Max Uplift 2=-81 (LC 6), 10=-71 (LC 11), 16=-93 (LC 10)
Max Grav 2=330 (LC 24), 10=1319 (LC 2), 16=1754 (LC 2)

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

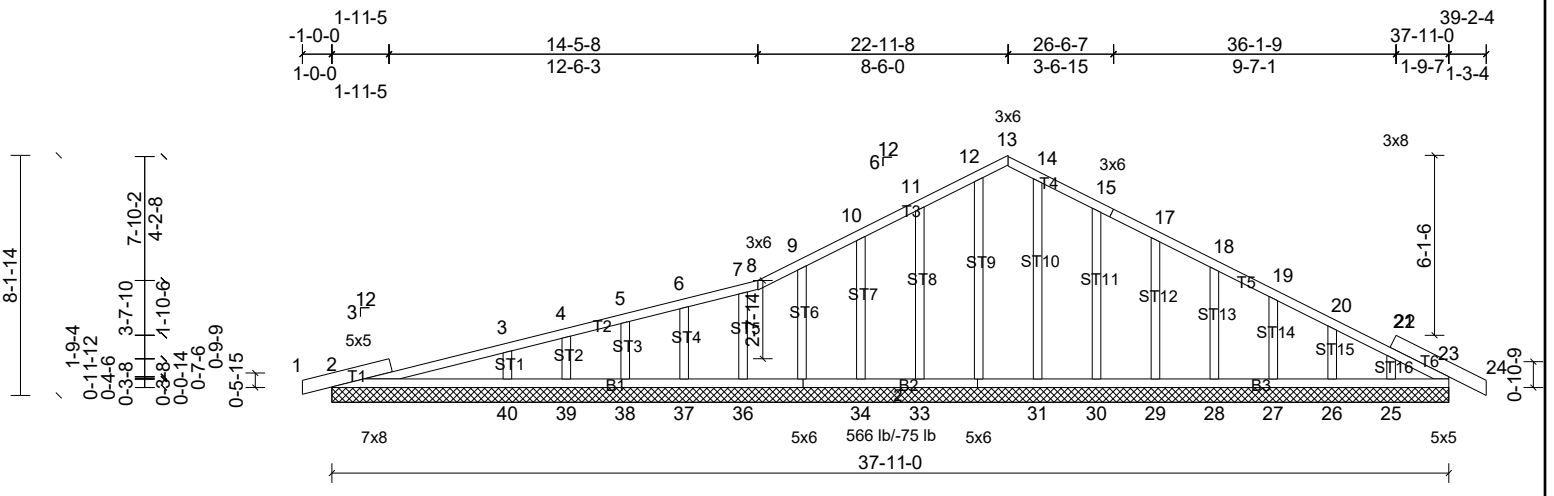
TOP CHORD	4-5=-1842/181, 5-6=-2030/259, 6-25=-1546/219, 7-25=-1460/239, 7-26=-1486/227, 8-26=-1581/211, 8-27=-2135/218, 9-27=-2142/184, 9-10=-433/0
BOT CHORD	15-28=-35/1528, 28-29=-35/1528, 14-29=-35/1528, 13-14=-72/1827, 12-13=-72/1827, 10-12=-71/1831
WEBS	4-15=-98/1918, 5-15=-695/147, 6-15=-51/379, 6-14=-410/137, 7-14=-66/1004, 8-14=-631/159, 4-16=-1631/210

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 19-11-8, Exterior(2R) 19-11-8 to 25-11-8, Interior (1) 25-11-8 to 36-2-4, Exterior(2E) 36-2-4 to 39-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 2, 71 lb uplift at joint 10 and 93 lb uplift at joint 16.
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
72410547	A5	Truss	1	1	GREEN-R-PANEL PREFAB RESIDENTIAL FRAMING SYSTEMS



Scale = 1:78.6

Plate Offsets (X, Y): [2:0-0-4,0-4-6], [2:0-0-2,Edge], [13:0-2-8,Edge], [22:0-5-10,0-1-4], [23:Edge,0-1-12], [32:0-3-0,0-3-0], [35:0-3-0,0-3-0]

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	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	23	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 218 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2 *Except* T1,T6:2x6 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x4 SP No.3

BRACING

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

REACTIONS All bearings 37-11-0.

(lb) - Max Horiz 2=117 (LC 10), 41=117 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 25, 26, 27, 28, 29, 30, 33, 34, 35, 36, 37, 38, 39, 40, 41

Max Grav All reactions 250 (lb) or less at joint(s) 23, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 44 except 2=370 (LC 1), 40=567 (LC 1), 41=370 (LC 1)

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

WEBS 3-40=-347/105

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-0-0 to 2-3-7, Exterior(2N) 2-3-7 to 19-11-8, Corner(3R) 19-11-8 to 25-11-8, Exterior(2N) 25-11-8 to 35-11-8, Corner(3E) 35-11-8 to 39-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only.
4) All plates are 2x3 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 20.0psf on the bottom chord in 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) 2, 34, 33, 35, 36, 37, 38, 39, 40, 30, 29, 28, 27, 26, 25, 2.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard