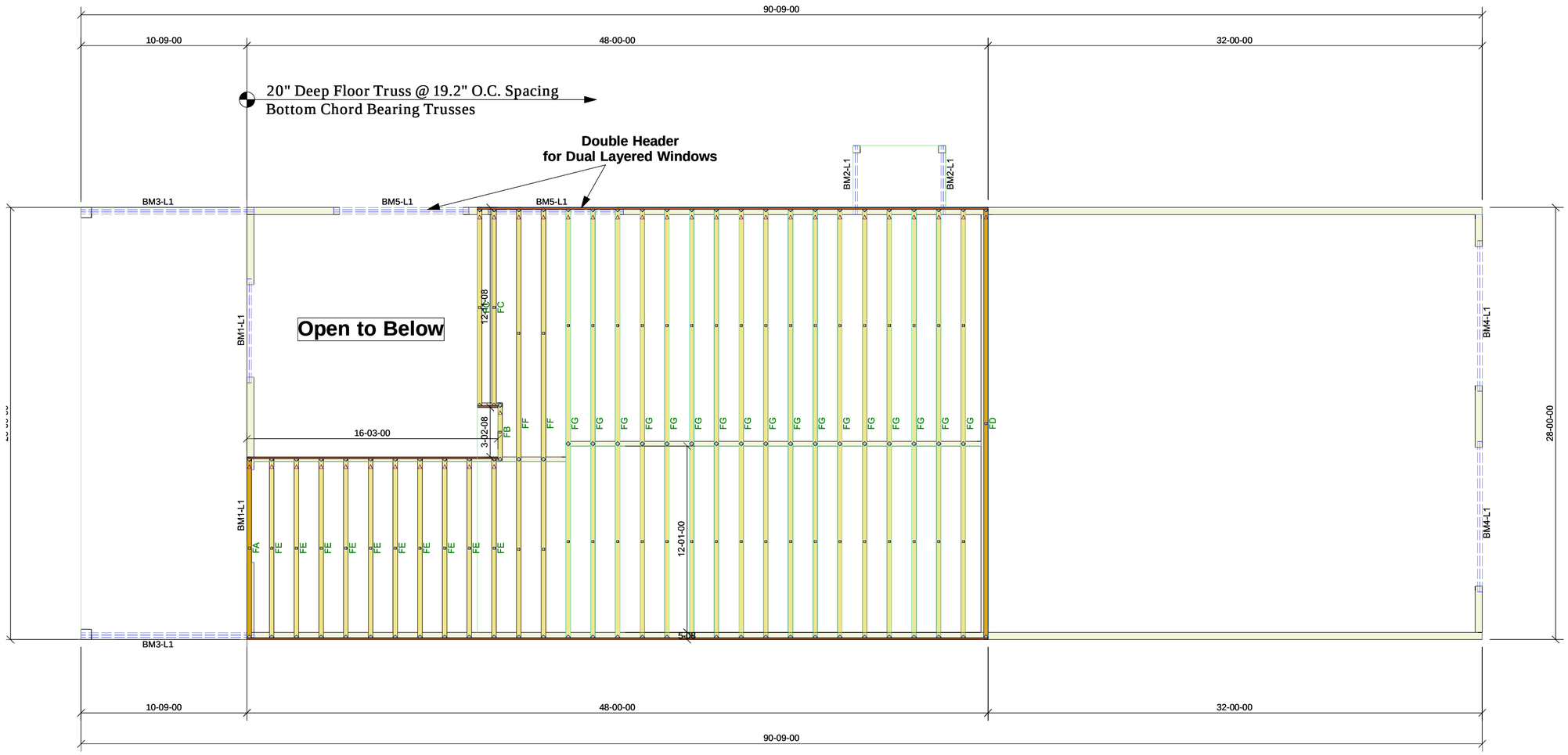
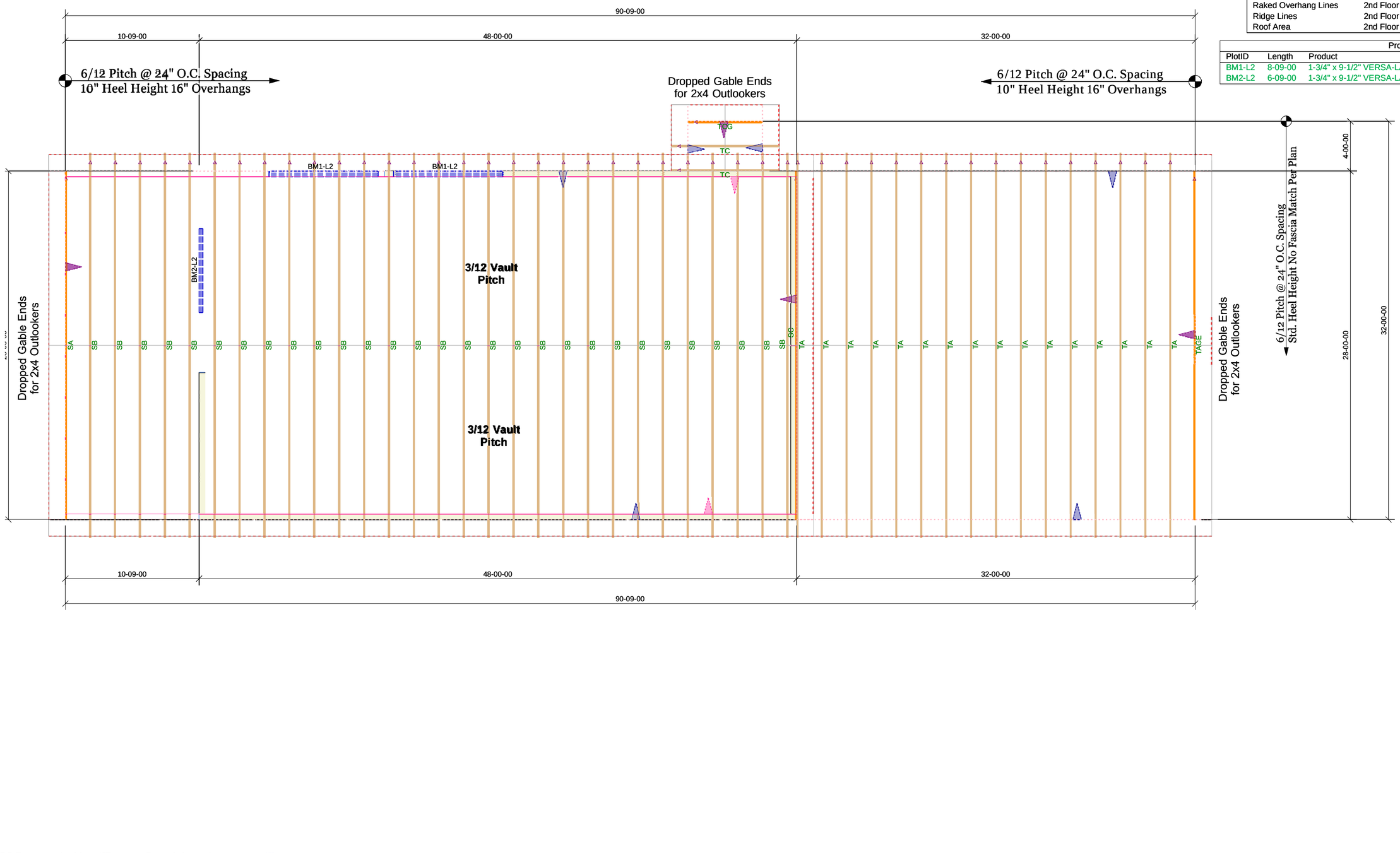
Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
BM1-L1	6-09-00	1-3/4" x 9-1/2" VERSA-LAM® LVL 2.1E 2800 DF	2	4	MFD
BM2-L1	4-05-08	1-3/4" x 9-1/2" VERSA-LAM® LVL 2.1E 2800 DF	2	4	MFD
BM3-L1	11-02-08	1-3/4" x 11-7/8" VERSA-LAM® LVL 2.1E 2800 DF	3	6	MFD
BM4-L1	9-09-00	1-3/4" x 11-7/8" VERSA-LAM® LVL 2.1E 2800 DF	2	4	MFD
BM5-L1	8-09-00	1-3/4" x 11-7/8" VERSA-LAM® LVL 2.1E 2800 DF	3	6	MFD



Estimation			
Name	Selection	Formula	Calculation
Horizontal Overhang Lines	2nd Floor	Horizontal Overhang Lines	200.17 ft
Raked Overhang Lines	2nd Floor	Raked Overhang Lines	123.18 ft
Ridge Lines	2nd Floor	Ridge Lines	100 ft
Roof Area	2nd Floor	Roof Area	3300 ft²

Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
BM1-L2	8-09-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 2800 DF	3	6	MFD
BM2-L2	6-09-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 2800 DF	2	2	MFD



Job	Truss	Truss Type	Qty	Ply	Superior Custom Homes
Q2401329	SA	Scissor Structural Gable	1	1	Job Reference (optional)

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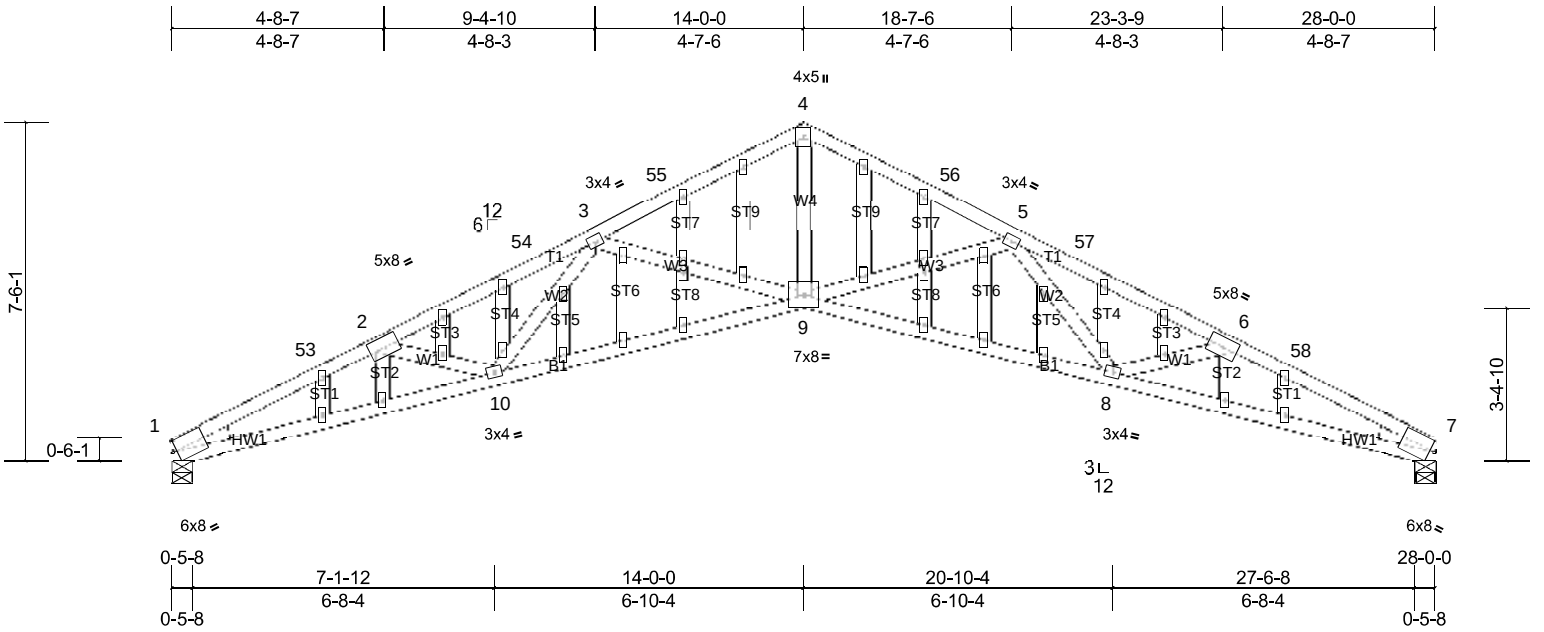

Scale = 1:50.5

Plate Offsets (X, Y): [1:Edge,0-2-14], [6:0-1-4,0-2-8], [7:Edge,0-2-14], [13:0-1-10,0-1-0], [32:0-1-10,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.34	9-10	>989	240	MT20	197/144
(Roof Snow = 30.0)		Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.60	9-10	>563	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.39	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 131 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SPF 2100F 1.8E
BOT CHORD	2x4 SPF 2100F 1.8E
WEBS	2x4 SPF No.2
OTHERS	2x4 SPF No.2
WEDGE	Left: 2x4 SPF No.2 Right: 2x4 SPF No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-1-5 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=1383/0-5-4, (min. 0-1-11), 7=1383/0-5-4, (min. 0-1-11)
Max Horiz 1=-121 (LC 13)
Max Uplift 1=-151 (LC 12), 7=-151 (LC 13)
Max Grav 1=1394 (LC 18), 7=1394 (LC 19)

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

TOP CHORD	1-53=-3955/516, 2-53=-3850/532, 2-54=-3770/445, 3-54=-3613/460, 3-55=-2922/368, 4-55=-2826/391, 4-56=-2826/390, 5-56=-2920/368, 5-57=-3650/466, 6-57=-3807/451, 6-58=-3775/509, 7-58=-3880/495
BOT CHORD	1-10=-549/3511, 9-10=-393/3381, 8-9=-334/3373, 7-8=-405/3432
WEBS	4-9=-205/2214, 3-10=0/297, 3-9=-938/267, 5-9=-930/272, 5-8=-12/323

NOTES

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-10 to 3-2-10, Interior (1) 3-2-10 to 11-0-0, Exterior(2R) 11-0-0 to 17-0-0, Interior (1) 17-0-0 to 24-9-6, Exterior(2E) 24-9-6 to 27-9-6 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 1-4-0 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) Bearing at joint(s) 1, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 151 lb uplift at joint 1 and 151 lb uplift at joint 7.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Superior Custom Homes
Q2401329	SB	Scissor	29	1	Job Reference (optional)

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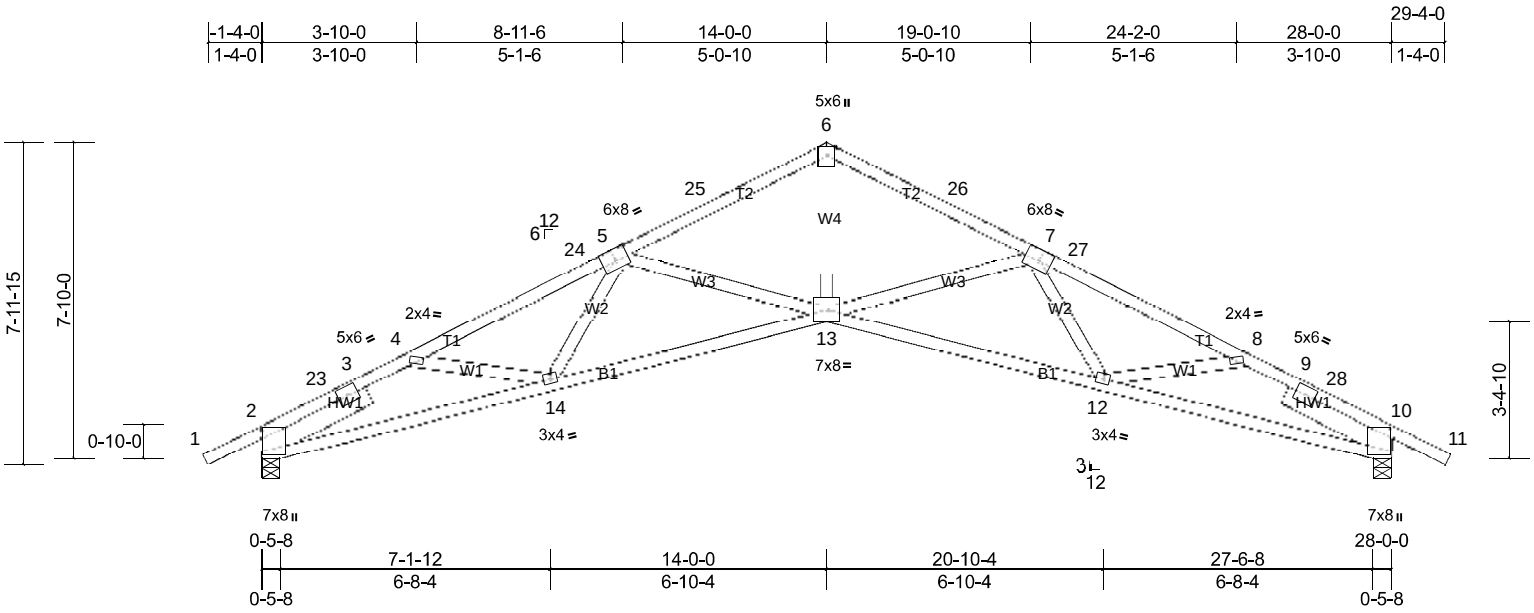

Scale = 1:56.5

Plate Offsets (X, Y): [2:0-2-13,0-0-1], [5:0-4-0,Edge], [7:0-4-0,Edge], [10:0-2-13,0-0-1]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.31	12-13	>999	240	MT20	197/144
(Roof Snow = 30.0)		Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.56	12-13	>602	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.37	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 115 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2
SLIDER	Left 2x6 SPF 2100F 1.8E -- 3-0-0, Right 2x6 SPF 2100F 1.8E -- 3-0-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 1-9-11 oc purlins.
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) 2=1512/0-5-4, (min. 0-2-5), 10=1512/0-5-4, (min. 0-2-5)
Max Horiz 2=-136 (LC 13)
Max Uplift 2=-188 (LC 12), 10=-188 (LC 13)
Max Grav 2=1522 (LC 19), 10=1522 (LC 20)

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

TOP CHORD	3-4=-3255/456, 4-24=-3459/371, 5-24=-3309/388, 5-25=-2775/310, 6-25=-2667/327, 6-26=-2667/327, 7-26=-2775/310, 7-27=-3309/367, 8-27=-3459/351, 8-9=-3255/390
BOT CHORD	2-14=-469/2828, 13-14=-372/3195, 12-13=-225/3195, 10-12=-252/2828
WEBS	6-13=-135/2020, 4-14=0/361, 5-13=-880/269, 7-13=-880/279, 8-12=0/361

NOTES

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-13 to 1-7-3, Interior (1) 1-7-3 to 11-0-0, Exterior(2R) 11-0-0 to 17-0-0, Interior (1) 17-0-0 to 26-4-13, Exterior(2E) 26-4-13 to 29-4-13 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 2, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint 2 and 188 lb uplift at joint 10.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Superior Custom Homes
Q2401329	SC	Scissor Structural Gable	1	1	Job Reference (optional)

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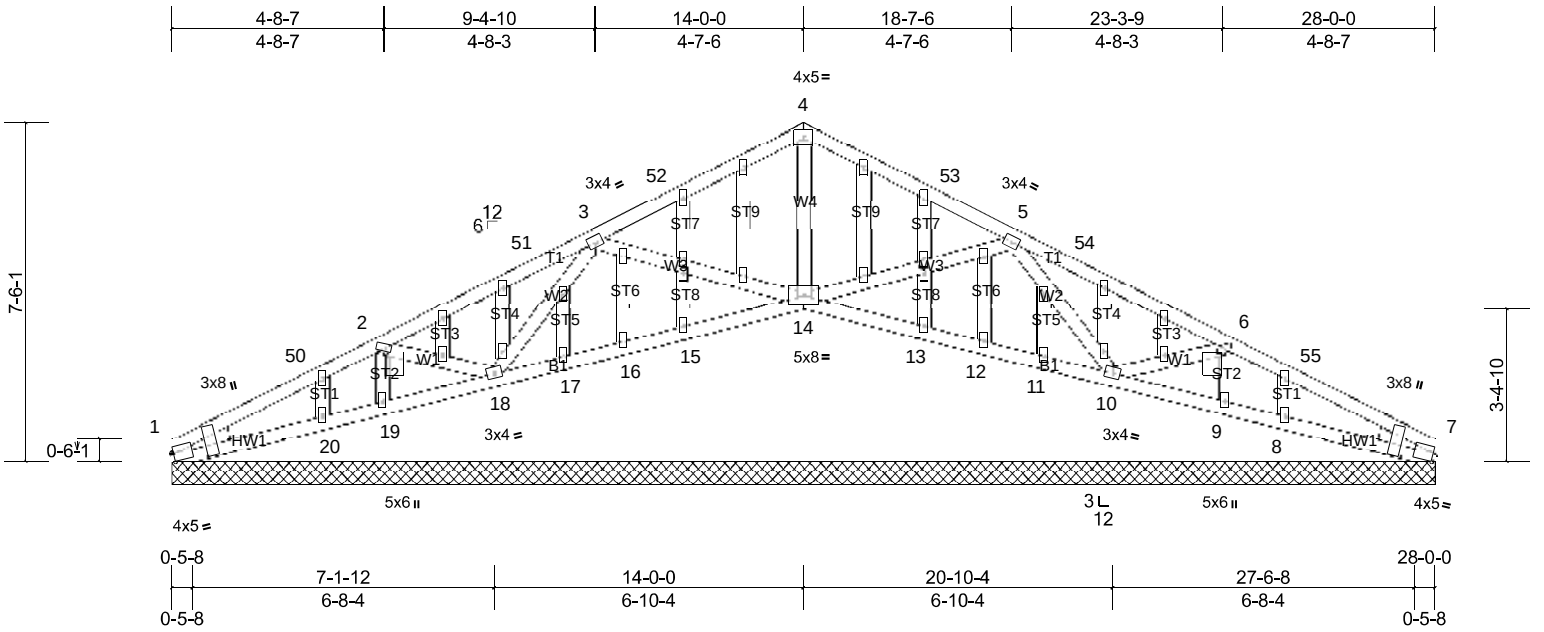

Scale = 1:50.5

Plate Offsets (X, Y): [1:0-0-6,Edge], [1:0-3-4,0-9-4], [7:0-0-6,Edge], [7:0-3-4,0-9-4], [23:0-1-10,0-1-0], [31:0-0-10,0-1-0], [36:0-1-10,0-1-0], [43:0-0-10,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow = 30.0)		Lumber DOL	1.15	BC	0.44	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.31	Horiz(TL)	-0.02	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 131 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 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 28-0-0.

(lb) - Max Horiz 1=129 (LC 12)

Max Uplift All uplift 100 (lb) or less at joint(s) 1, 7, 8, 17, 19 except 9=-140 (LC 19), 10=-281 (LC 13), 14=-229 (LC 12), 16=-147 (LC 18)

Max Grav All reactions 250 (lb) or less at joint(s) 9, 11, 12, 13, 15, 16, 19, 20 except 1=372 (LC 18), 8=350 (LC 19), 10=993 (LC 19), 14=1076 (LC 18), 17=353 (LC 18)

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

TOP CHORD 1-50=-734/184, 2-50=-629/195, 2-51=-309/89, 3-52=-122/405, 4-52=-108/617, 4-53=-92/554, 5-53=-105/476, 5-54=-181/979, 6-54=-204/871, 6-55=-45/442, 7-55=-60/368

BOT CHORD 1-20=-244/644, 19-20=-240/644, 18-19=-232/610, 17-18=-40/295, 15-16=-29/258, 14-15=-33/250, 13-14=-425/180, 12-13=-420/179, 11-12=-421/178, 10-11=-425/178, 9-10=-345/117, 8-9=-385/128, 7-8=-313/106

WEBS 4-14=-788/170, 2-18=-440/216, 3-14=-727/261, 5-10=-1003/268, 6-10=-470/222

NOTES

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 11-0-0, Exterior(2R) 11-0-0 to 17-0-0, Interior (1) 17-0-0 to 25-0-0, Exterior(2E) 25-0-0 to 28-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 1-4-0 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, 17, 19, 8 except (jt=lb) 14=228, 10=281, 16=147, 9=140.
11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 14, 10, 15, 16, 17, 19, 20, 13, 12, 11, 9, 8.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Superior Custom Homes
Q2401329	TA	Common	16	1	Job Reference (optional)

Black Hills Structural Components, Rapid City, SD, user — Run: 8.72 S Jan 22 2024 Print: 8.720 S Jan 22 2024 MiTek Industries, Inc. Thu Mar 07 12:53:02 — Page: 1

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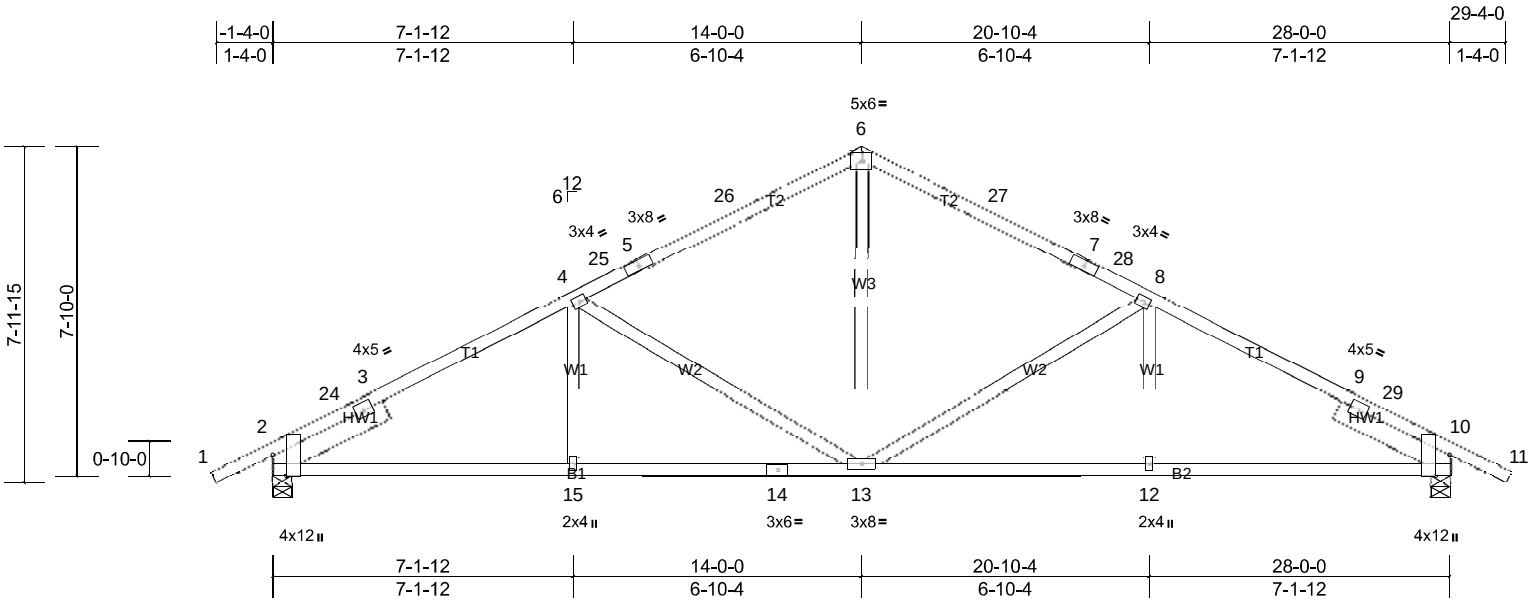

Scale = 1:54.2

Plate Offsets (X, Y): [2:0-6-1,Edge], [10:0-6-1,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.13	13-15	>999	240	MT20	197/144
(Roof Snow = 30.0)		Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.24	13-15	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.09	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 117 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SPF 2100F 1.8E *Except* T1:2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2
SLIDER	Left 2x6 SPF 2100F 1.8E -- 3-0-0, Right 2x6 SPF 2100F 1.8E -- 3-0-0

REACTIONS (lb/size) 2=1512/0-5-8, (min. 0-2-6), 10=1512/0-5-8, (min. 0-2-6)
Max Horiz 2=-136 (LC 13)
Max Uplift 2=-188 (LC 12), 10=-188 (LC 13)
Max Grav 2=1522 (LC 19), 10=1522 (LC 20)

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-0-3 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.

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

TOP CHORD	2-24=-523/0, 3-24=-431/0, 3-4=-2156/299, 4-25=-1614/266, 5-25=-1558/266, 5-26=-1491/283, 6-26=-1476/299, 6-27=-1476/299, 7-27=-1491/283, 7-28=-1558/266, 8-28=-1614/266, 8-9=-2156/299, 9-29=-431/0, 10-29=-448/0
BOT CHORD	2-15=-270/1895, 14-15=-244/1895, 13-14=-244/1895, 12-13=-137/1895, 10-12=-137/1895
WEBS	4-13=-749/227, 6-13=-57/796, 8-13=-749/227

NOTES

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-4-13 to 1-7-3, Interior (1) 1-7-3 to 11-0-0, Exterior(2R) 11-0-0 to 17-0-0, Interior (1) 17-0-0 to 26-4-13, Exterior(2E) 26-4-13 to 29-4-13 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; 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 16.0 psf or 1.00 times flat roof load of 30.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint 2 and 188 lb uplift at joint 10.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Superior Custom Homes
Q2401329	TAGE	Common Supported Gable	1	1	Job Reference (optional)

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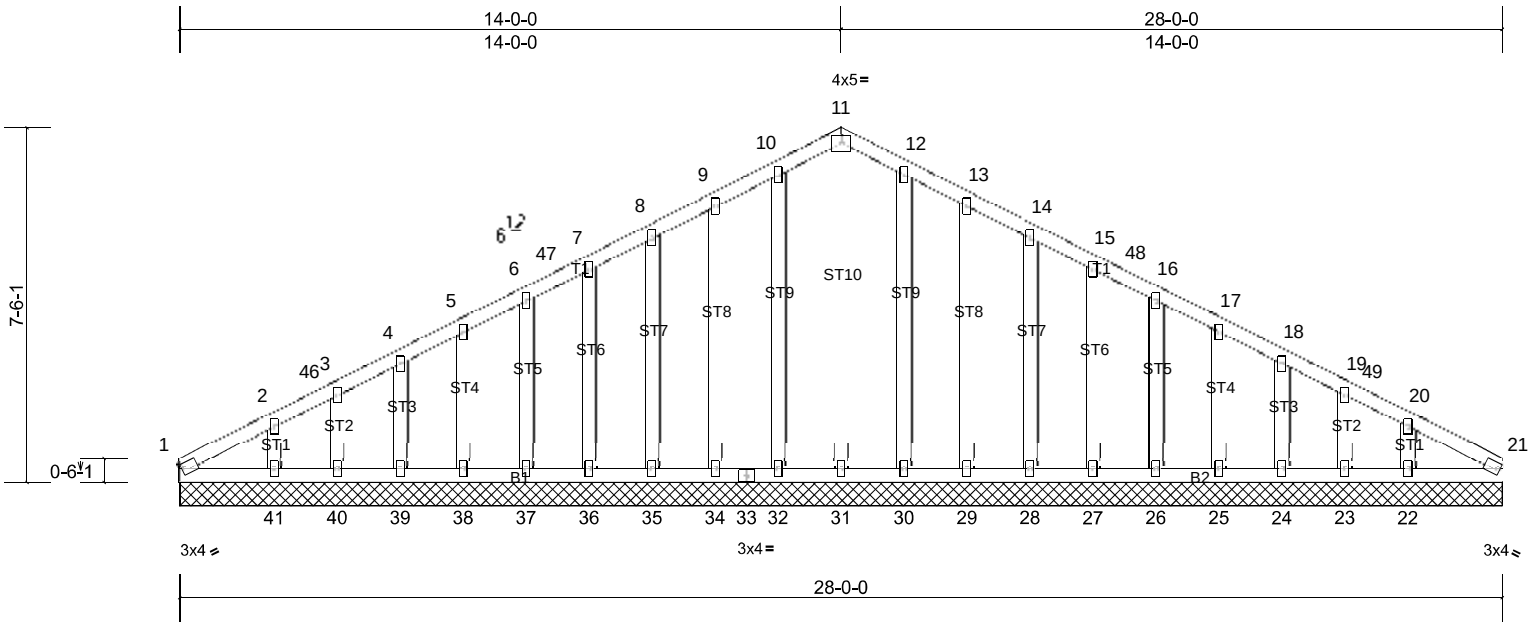


Scale = 1:48.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow = 30.0)		Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.18	Horiz(TL)	0.00	21	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 150 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 10-0-0 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 28-0-0.

(lb) - Max Horiz 1=127 (LC 16), 42=127 (LC 16)

Max Uplift All uplift 100 (lb) or less at joint(s) 1, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 34, 35, 36, 37, 38, 39, 40, 41, 42

Max Grav All reactions 250 (lb) or less at joint(s) 1, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 34, 35, 36, 37, 38, 39, 40, 41, 42 except 22=322 (LC 1)

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

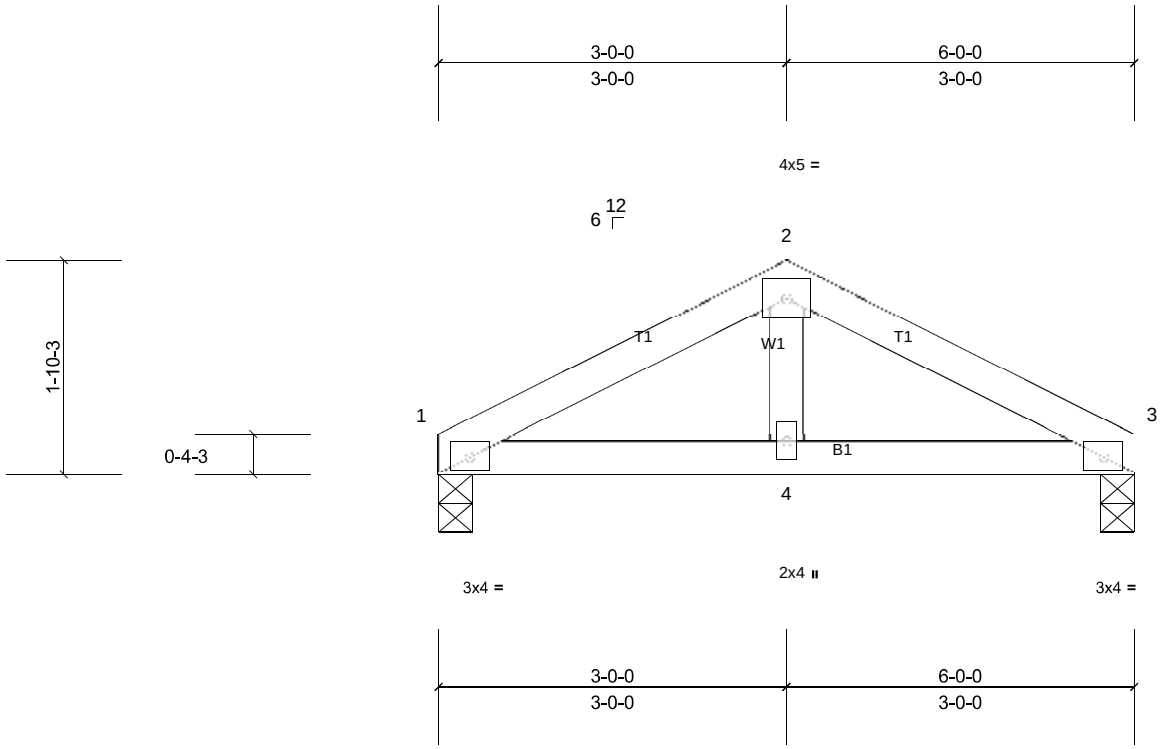
TOP CHORD 10-11=-72/271, 11-12=-72/271

NOTES

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 11-0-0, Corner(3R) 11-0-0 to 17-0-0, Exterior(2N) 17-0-0 to 25-0-0, Corner(3E) 25-0-0 to 28-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 1-4-0 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, 32, 34, 35, 36, 37, 38, 39, 40, 41, 30, 29, 28, 27, 26, 25, 24, 23, 22, 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Superior Custom Homes
Q2401329	TC	Common	2	1	Job Reference (optional)



Scale = 1:19.7

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	-0.01	4-10	>999	240	MT20	197/144
(Roof Snow = 30.0)		Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.01	4-10	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	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 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2

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

REACTIONS (lb/size) 1=291/0-3-8, (min. 0-1-8), 3=291/0-3-8, (min. 0-1-8)
Max Horiz 1=-26 (LC 13)
Max Uplift 1=-33 (LC 12), 3=-33 (LC 13)
Max Grav 1=333 (LC 18), 3=333 (LC 19)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-402/178, 2-3=-402/178
BOT CHORD 1-4=-92/315, 3-4=-92/315

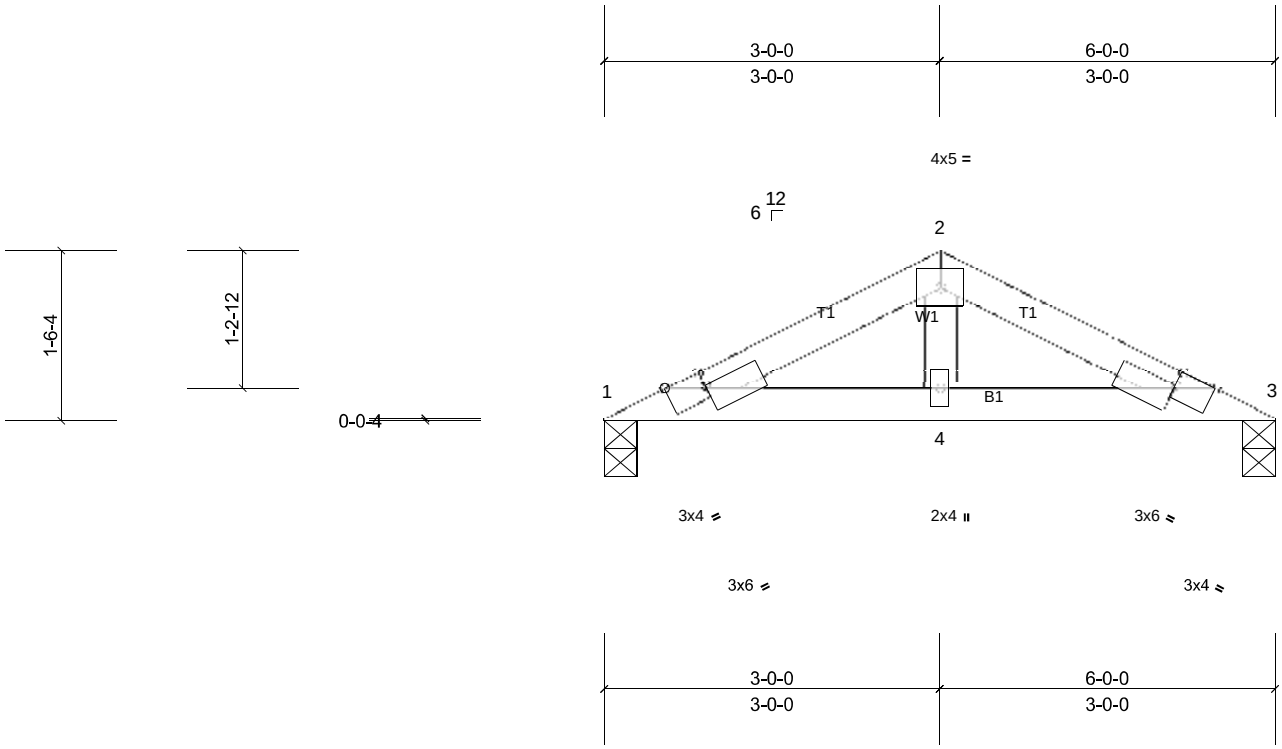
NOTES
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 1 and 33 lb uplift at joint 3.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Superior Custom Homes
Q2401329	TCG	Common Structural Gable	1	1	Job Reference (optional)

Black Hills Structural Components, Rapid City, SD, user — Run: 8.72 S Jan 22 2024 Print: 8.720 S Jan 22 2024 MiTek Industries, Inc. Thu Mar 07 12:53:03 — Page: 1

ID:czmojhfCgm8w73ia6oYZCzzdI9?-Ge7T4sq2qZM9GzcDHgnJeQZ9h2BUeq61Lg8qeNzdI7U



Scale = 1:20.4

Plate Offsets (X, Y): [1:0-3-15,Edge], [1:0-4-0,0-1-11], [3:0-3-15,Edge], [3:0-4-0,0-1-11]

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	-0.01	4-5	>999	240	MT20	197/144
(Roof Snow = 30.0)		Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.02	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.01	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 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2

BRACING

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

REACTIONS (lb/size) 1=276/0-3-8, (min. 0-1-8), 3=276/0-3-8, (min. 0-1-8)
Max Horiz 1=23 (LC 12)
Max Uplift 1=-32 (LC 12), 3=-32 (LC 13)
Max Grav 1=315 (LC 18), 3=315 (LC 19)

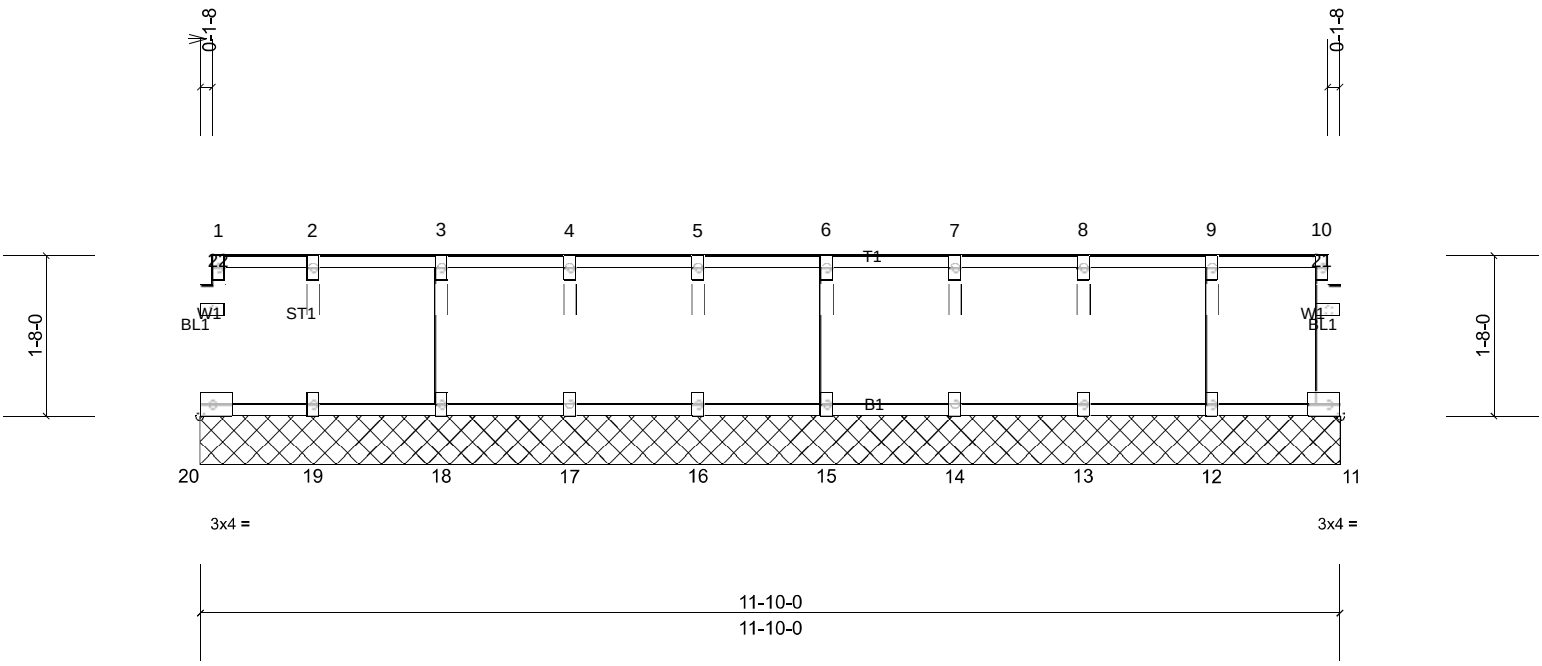
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-523/208, 2-3=-451/200
BOT CHORD 1-4=-168/443, 3-4=-117/376

NOTES

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; 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
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; Pf=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Gable studs spaced at 1-4-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 1 and 32 lb uplift at joint 3.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Superior Custom Homes
Q2401329	FA	Floor Supported Gable	1	1	Job Reference (optional)



Scale = 1:23.9

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.00	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: 46 lb	FT = 15%F, 15%E

LUMBER

TOP CHORD	2x4 SPF 2100F 1.8E(flat)
BOT CHORD	2x4 SPF 2100F 1.8E(flat)
WEBS	2x4 SPF No.2(flat)
OTHERS	2x4 SPF 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 11-10-0.
(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

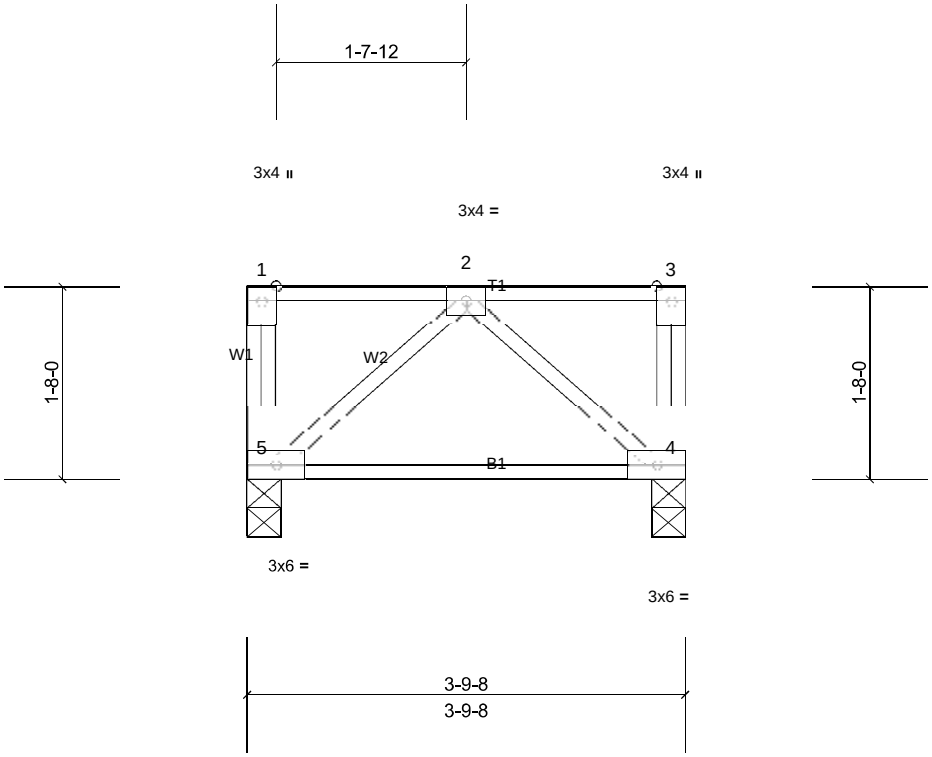
1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
2) All plates are 1.5x3 MT20 unless otherwise indicated.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) 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	Superior Custom Homes
Q2401329	FB	Floor	1	1	Job Reference (optional)

Black Hills Structural Components, Rapid City, SD, user — Run: 8.72 S Jan 22 2024 Print: 8.720 S Jan 22 2024 MiTek Industries, Inc. Thu Mar 07 14:23:57 — Page: 1

ID:j?BafGlD4cjzh0XXvncqvFzdI3j-auhIlmq9PJVIb8ZQn6eIhZSD6bhyWVfpVCJP4FzdGoG



Scale = 1:19.9

Loading	(psf)	Spacing	1-7-3	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	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.06	Vert(CT)	-0.02	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 20 lb	FT = 15%F, 15%E

LUMBER

TOP CHORD	2x4 SPF 2100F 1.8E(flat)
BOT CHORD	2x4 SPF 2100F 1.8E(flat)
WEBS	2x4 SPF No.2(flat)

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-9-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 4=156/0-3-8, (min. 0-1-8), 5=156/0-3-8, (min. 0-1-8)

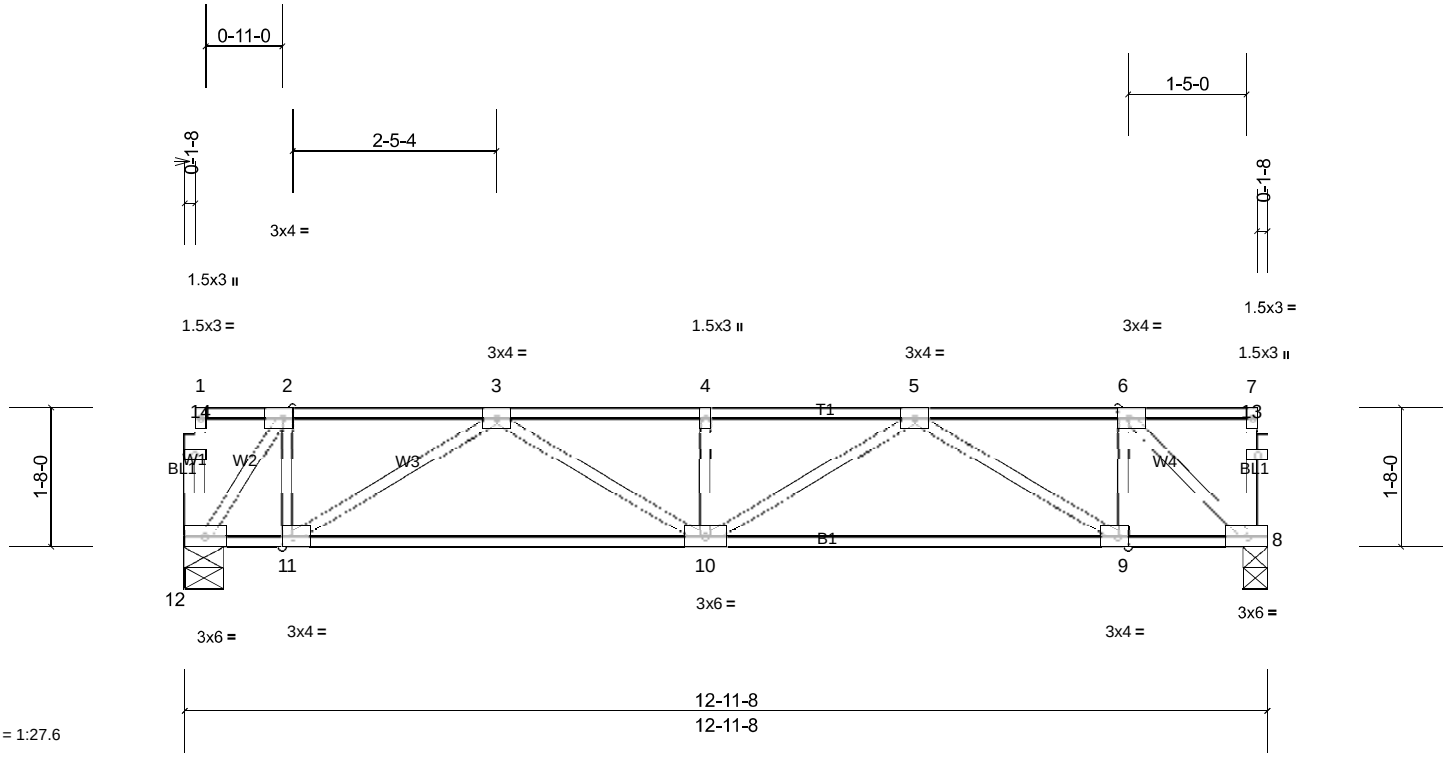
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
2) 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	Superior Custom Homes
Q2401329	FC	Floor	2	1	Job Reference (optional)



Scale = 1:27.6

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

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.12	Vert(LL)	-0.03	10	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.16	Vert(CT)	-0.06	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	8	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 57 lb	FT = 15%F, 15%E

LUMBER

TOP CHORD	2x4 SPF 2100F 1.8E(flat)
BOT CHORD	2x4 SPF 2100F 1.8E(flat)
WEBS	2x4 SPF No.2(flat)
OTHERS	2x4 SPF 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) 8=554/0-3-8, (min. 0-1-8), 12=554/0-5-8, (min. 0-1-8)

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

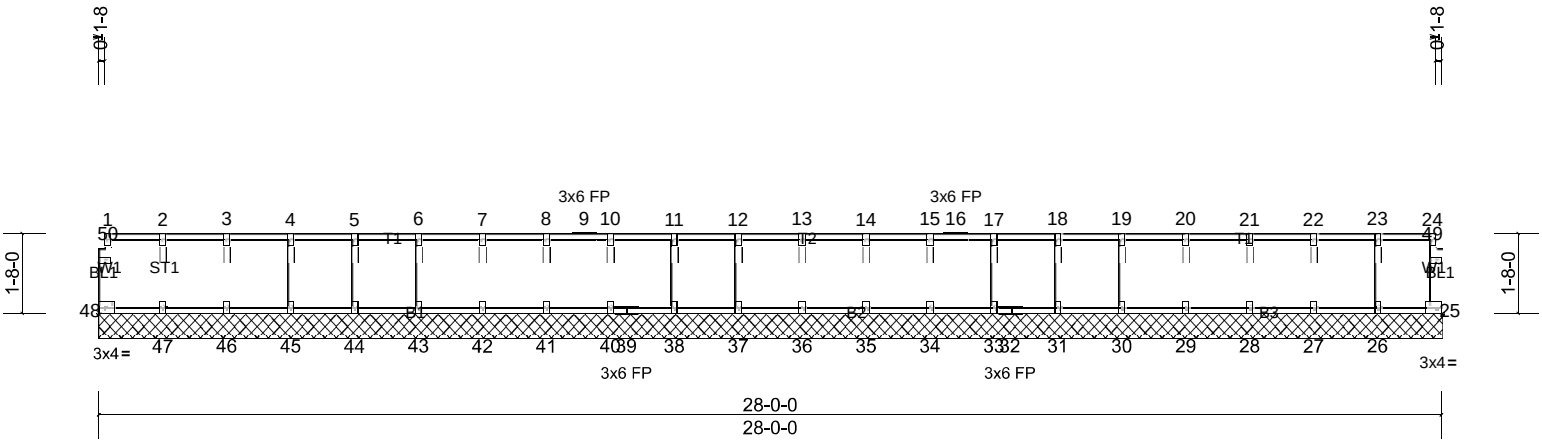
TOP CHORD	2-3=-394/0, 3-4=-1185/0, 4-5=-1185/0, 5-6=-537/0
BOT CHORD	11-12=0/394, 10-11=0/956, 9-10=0/1027, 8-9=0/537
WEBS	6-8=-743/0, 6-9=0/334, 5-9=-575/0, 3-10=0/269, 3-11=-660/0, 2-11=0/381, 2-12=-676/0

NOTES

1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
2) 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	Superior Custom Homes
Q2401329	FD	Floor Supported Gable	1	1	Job Reference (optional)



Scale = 1:48

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.00	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	25	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 102 lb	FT = 15%F, 15%E

LUMBER

TOP CHORD	2x4 SPF 2100F 1.8E(flat)
BOT CHORD	2x4 SPF 2100F 1.8E(flat)
WEBS	2x4 SPF No.2(flat)
OTHERS	2x4 SPF 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 28-0-0.
(lb) - Max Grav All reactions 250 (lb) or less at joint(s) 25, 26, 27, 28, 29, 30, 31, 33, 34, 35, 36, 37, 38, 40, 41, 42, 43, 44, 45, 46, 47, 48

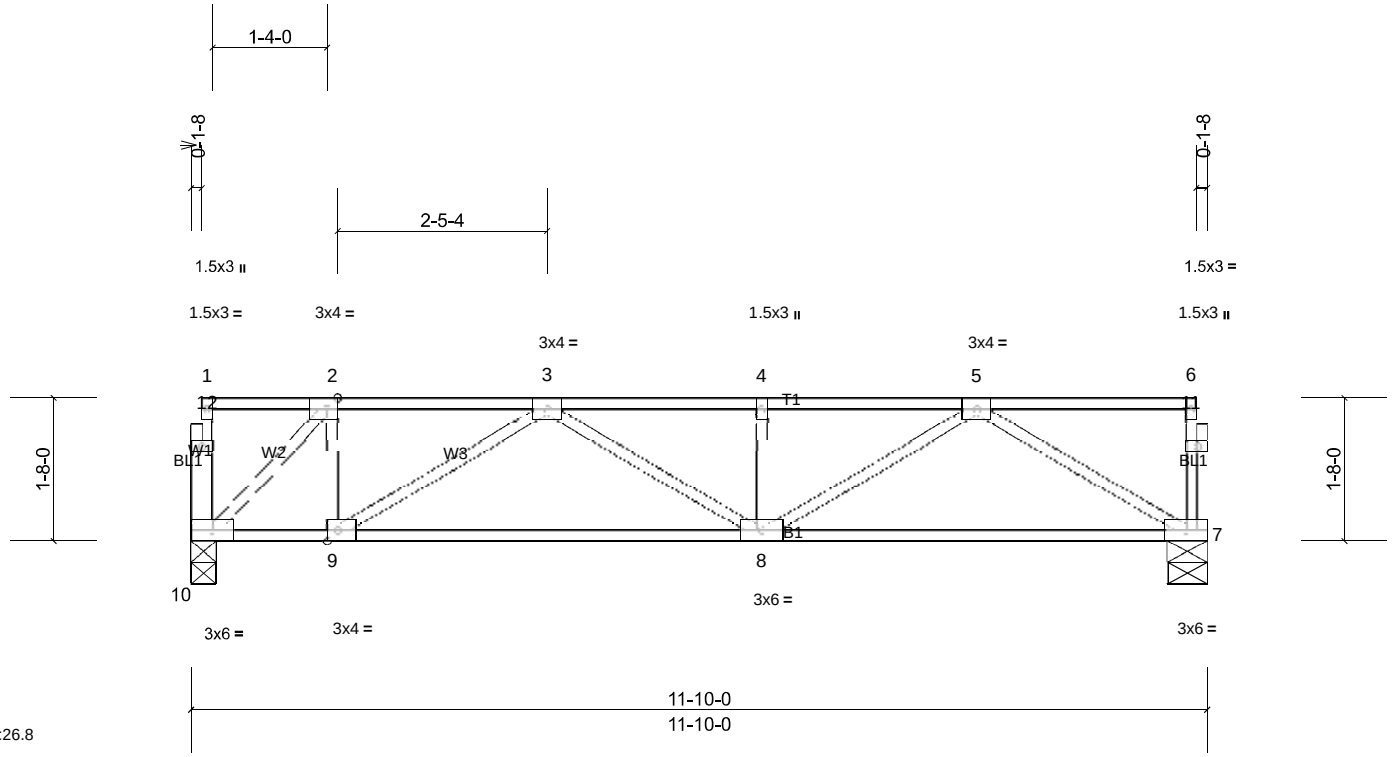
FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES

1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
2) All plates are 1.5x3 MT20 unless otherwise indicated.
3) Gable requires continuous bottom chord bearing.
4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
5) Gable studs spaced at 1-4-0 oc.
6) 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	Superior Custom Homes
Q2401329	FE	Floor	10	1	Job Reference (optional)



Scale = 1:26.8

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

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.14	Vert(LL)	-0.02	8-9	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.16	Vert(CT)	-0.05	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 51 lb	FT = 15%F, 15%E

LUMBER

TOP CHORD	2x4 SPF 2100F 1.8E(flat)
BOT CHORD	2x4 SPF 2100F 1.8E(flat)
WEBS	2x4 SPF No.2(flat)
OTHERS	2x4 SPF 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=505/0-5-8, (min. 0-1-8), 10=505/0-3-8, (min. 0-1-8)

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

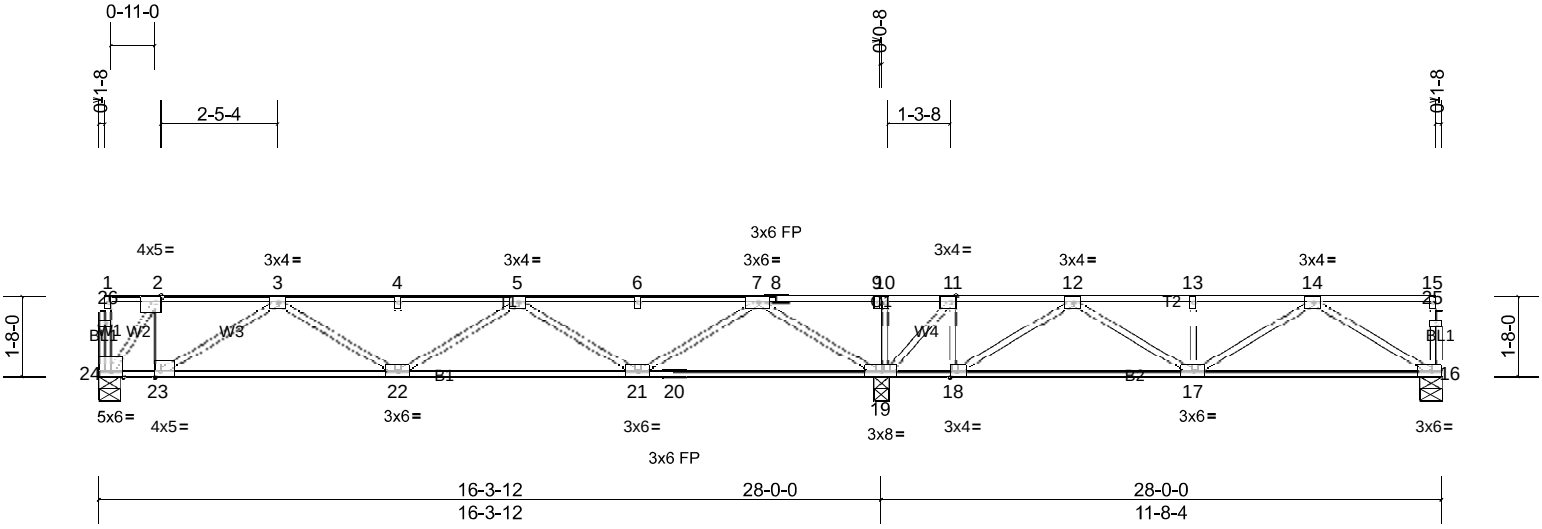
TOP CHORD	2-3=-464/0, 3-4=-978/0, 4-5=-978/0
BOT CHORD	9-10=0/464, 8-9=0/889, 7-8=0/683
WEBS	5-7=-793/0, 5-8=0/347, 3-9=-498/0, 2-9=0/292, 2-10=-659/0

NOTES

1) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
2) 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	Superior Custom Homes
Q2401329	FF	Floor	2	1	Job Reference (optional)



Scale = 1:48

Plate Offsets (X, Y): [2:0-1-8,Edge], [11:0-1-8,Edge], [18:0-1-8,Edge], [23:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.16	Vert(LL)	-0.08	21-22	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.26	Vert(CT)	-0.12	21-22	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.04	16	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 117 lb	FT = 15%F, 15%E

LUMBER

TOP CHORD	2x4 SPF 2100F 1.8E(flat)
BOT CHORD	2x4 SPF 2100F 1.8E(flat)
WEBS	2x4 SPF No.2(flat)
OTHERS	2x4 SPF 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) 16=502/0-5-8, (min. 0-1-8), 19=1212/0-3-8, (min. 0-1-8), 24=705/0-5-4, (min. 0-1-8)
Max Grav 16=503 (LC 4), 19=1212 (LC 1), 24=705 (LC 3)

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

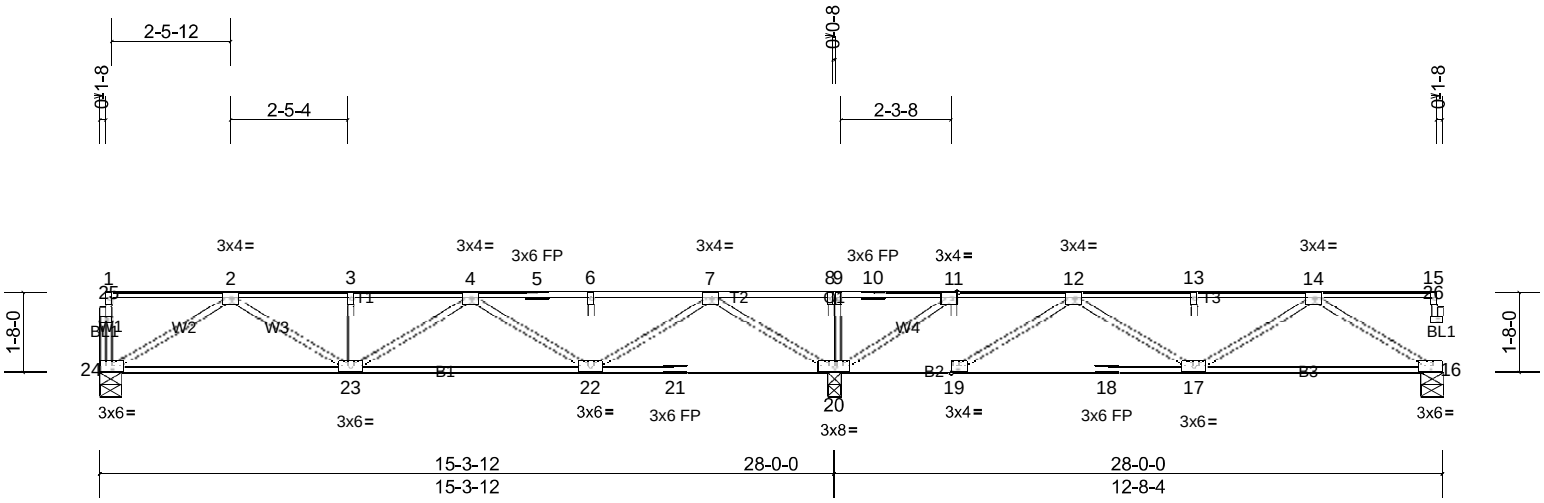
TOP CHORD	2-3=-502/0, 3-4=-1780/0, 4-5=-1780/0, 5-6=-1623/0, 6-7=-1623/0, 11-12=-451/0, 12-13=-972/0, 13-14=-972/0
BOT CHORD	23-24=0/502, 22-23=0/1307, 21-22=0/1866, 20-21=0/1009, 19-20=0/1009, 18-19=0/451, 17-18=0/879, 16-17=0/680
WEBS	7-19=-1174/0, 7-21=0/721, 5-21=-286/0, 3-22=0/555, 3-23=-946/0, 2-23=0/531, 2-24=-862/0, 14-16=-790/0, 14-17=0/344, 12-18=-505/0, 11-18=0/279, 11-19=-639/0

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) All plates are 1.5x3 MT20 unless otherwise indicated.
4) 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.
5) CAUTION, Do not erect truss backwards.
6) Top chord over the bearing at 16-3-12 is required to be field cut at time of installation. No plates are to be damaged or disturbed.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Superior Custom Homes
Q2401329	FG	Floor	17	1	Job Reference (optional)



Scale = 1:48

Plate Offsets (X, Y): [11:0-1-8,Edge], [19:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.16	Vert(LL)	-0.07	22-23	>999	480	MT20	197/144
TCDL	10.0	Lumber DOL	1.00	BC	0.24	Vert(CT)	-0.10	22-23	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.04	16	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 115 lb	FT = 15%F, 15%E

LUMBER

TOP CHORD	2x4 SPF 2100F 1.8E(flat)
BOT CHORD	2x4 SPF 2100F 1.8E(flat)
WEBS	2x4 SPF No.2(flat)
OTHERS	2x4 SPF 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) 16=546/0-5-8, (min. 0-1-8), 20=1211/0-3-5, (min. 0-1-8), 24=661/0-5-4, (min. 0-1-8)
Max Grav 16=546 (LC 4), 20=1211 (LC 1), 24=662 (LC 3)

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

TOP CHORD	2-3=-1498/0, 3-4=-1498/0, 4-5=-1485/0, 5-6=-1485/0, 6-7=-1485/0, 11-12=-743/0, 12-13=-1116/0, 13-14=-1116/0
BOT CHORD	23-24=0/955, 22-23=0/1657, 21-22=0/943, 20-21=0/943, 19-20=0/743, 18-19=0/1089, 17-18=0/1089, 16-17=0/752
WEBS	7-20=-1093/0, 7-22=0/637, 2-23=0/638, 2-24=-1106/0, 14-16=-873/0, 14-17=0/427, 12-19=-407/0, 11-20=-868/0

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
3) All plates are 1.5x3 MT20 unless otherwise indicated.
4) 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.
5) CAUTION, Do not erect truss backwards.
6) Top chord over the bearing at 15-3-12 is required to be field cut at time of installation. No plates are to be damaged or disturbed.

LOAD CASE(S) Standard