Job	Truss	Truss Type	Qty	Ply	
J21-003868	A01G	Scissor Supported Gable	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri May 07 12:03:47 Page: 1
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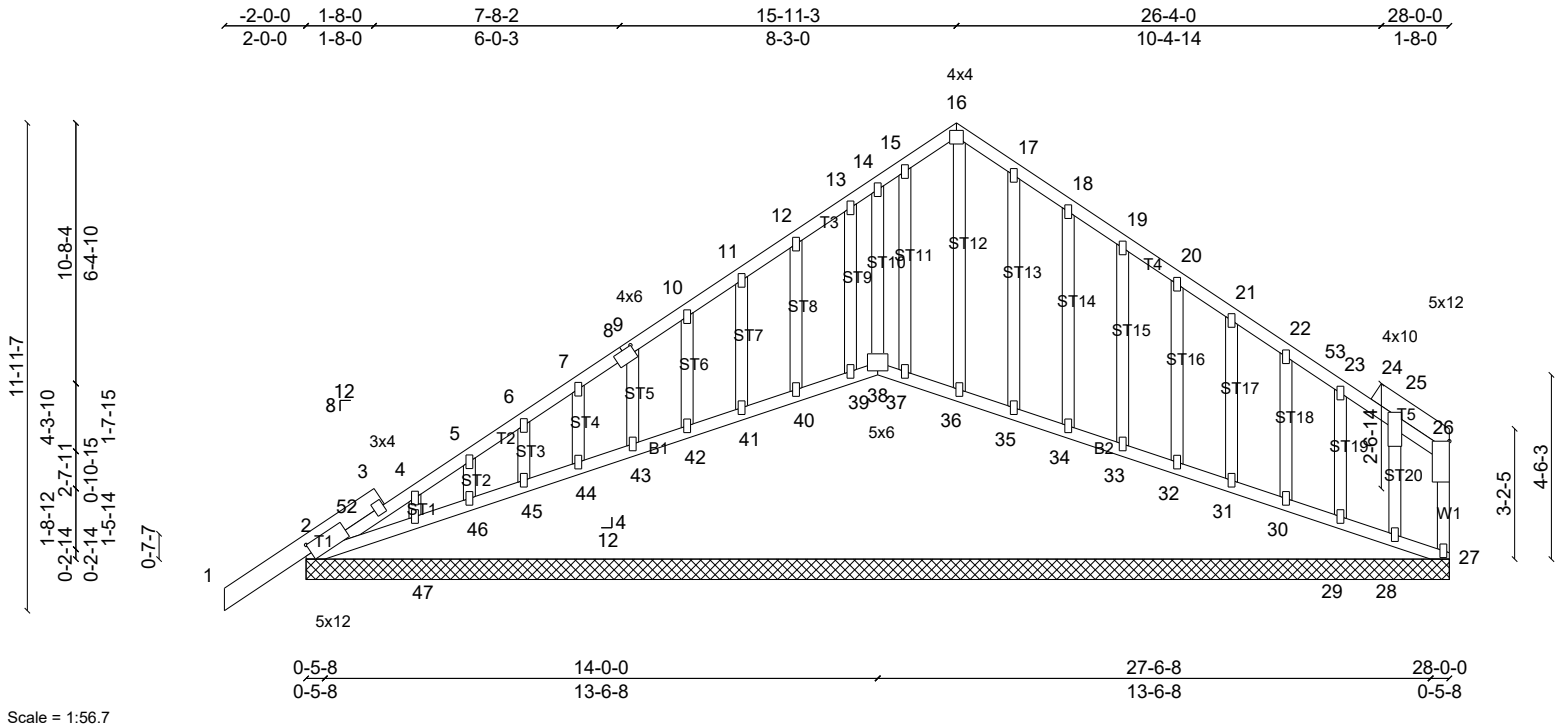

Scale = 1:56.7

Plate Offsets (X, Y): [2:0-1-14,0-2-12], [8:0-3-0,0-2-4]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	241.0	Plate Grip DOL	1.00	TC	0.62	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow = 241.0)		Lumber DOL	1.00	BC	0.23	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	NO	WB	0.31	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-AS								
BCDL	10.0	Additional Code: 2019 CRC									Weight: 169 lb	FT = 10%

LUMBER

TOP CHORD	2x4 SPF No.2 *Except* T1:2x6 SPF 2100F 1.8E, T5:2x6 HF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2
OTHERS	2x4 SPF No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS All bearings 28-0-0.

(lb) - Max Horiz 2=188 (LC 9), 48=188 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48 except 47=-502 (LC 16)

Max Grav All reactions 250 (lb) or less at joint(s) 38 except 2=1449 (LC 16), 27=2425 (LC 1), 28=448 (LC 1), 29=473 (LC 1), 30=465 (LC 1), 31=464 (LC 1), 32=465 (LC 1), 33=464 (LC 1), 34=461 (LC 1), 35=493 (LC 1), 36=442 (LC 1), 37=341 (LC 1), 39=341 (LC 1), 40=481 (LC 1), 41=463 (LC 1), 42=465 (LC 1), 43=464 (LC 1), 44=465 (LC 1), 45=461 (LC 1), 46=477 (LC 1), 47=452 (LC 1), 48=1449 (LC 16)

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

TOP CHORD	1-2=0/550, 2-52=-83/464, 2-52=-79/470
BOT CHORD	2-47=-506/56
WEBS	4-47=-442/340, 5-46=-453/36, 6-45=-445/34, 7-44=-447/34, 9-43=-446/34, 10-42=-446/34, 11-41=-445/34, 12-40=-462/35, 13-39=-325/28, 25-28=-437/43, 23-29=-453/37, 22-30=-447/34, 21-31=-446/34, 20-32=-446/34, 19-33=-446/34, 18-34=-442/41, 17-35=-475/17, 16-36=-425/93, 15-37=-325/15

5/14/21

PROFESSIONAL ENGINEER
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C 78754
EXP. 9/30/21
CIVIL
STATE OF CALIFORNIA

NOTES

1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.79; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -2-0-0 to 1-0-0, Exterior(2N) 1-0-0 to 12-11-3, Corner(3R) 12-11-3 to 18-8-0, Exterior(2N) 18-8-0 to 24-10-4, Corner(3E) 24-10-4 to 27-10-4 zone; 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=241.0 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.50 times flat roof load of 241.0 psf on overhangs non-concurrent with other live loads.
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.

P.E. Robbins, P.E. Victoria, IL 61485 PER211333

Jeff Funkhouser, P.E.

Digitally signed by Jeff Funkhouser, P.E.
Date: 2021.05.14 16:29:10 -04'00'

Continued on page 2

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 2, 38, 46, 45, 44, 43, 42, 41, 40, 39, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 2 except (jt=lb) 47=501.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 38, 47, 46, 45, 44, 43, 42, 41, 40, 39, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
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.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 38-48=-13, 27-38=-13, 1-16=-335, 16-26=-335
Concentrated Loads (lb)
Vert: 27=-2233

5/14/21

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Job	Truss	Truss Type	Qty	Ply	
J21-003868	A02	Scissor	20	1	Job Reference (optional)

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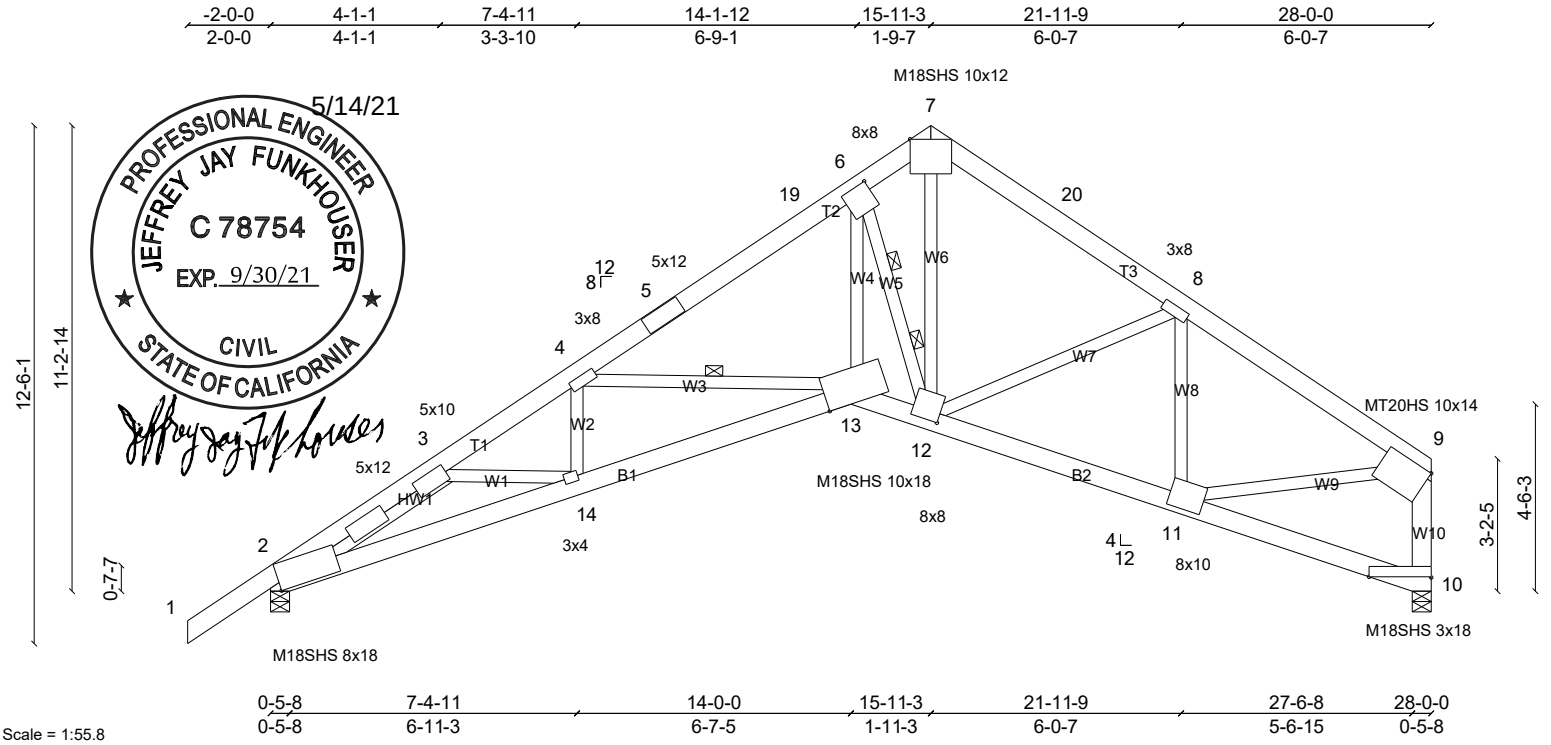

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Plate Offsets (X, Y): [2:0-8-1,0-4-10], [6:0-2-4,0-2-12], [9:Edge,0-2-0], [10:1-6-0,Edge], [12:0-0-14,0-2-12], [13:0-8-4,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	241.0	Plate Grip DOL	1.00	TC	0.98	Vert(LL)	-0.71	13-14	>464	240	MT20	137/130
(Roof Snow = 241.0)		Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.78	13-14	>425	180	M18SHS	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.64	10	n/a	n/a	MT20HS	148/108
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-AS								
BCDL	10.0	Additional Code: 2019 CRC									Weight: 184 lb	FT = 10%

LUMBER

TOP CHORD	2x6 SPF 2100F 1.8E *Except* T1:1-1/2" x 5-1/2" VERSA-LAM® 1.7 2400 DF
BOT CHORD	2x6 SPF 2100F 1.8E
WEBS	2x4 SPF No.2 *Except* W10:2x6 SPF 1650F 1.5E, W4,W9,W6:2x4 SPF 1650F 1.5E
SLIDER	Left 2x4 SPF No.2 -- 4-1-10

BRACING

TOP CHORD	Structural wood sheathing directly applied, except end verticals.	
BOT CHORD	Rigid ceiling directly applied.	
WEBS	1 Row at midpt	4-13
WEBS	2 Rows at 1/3 pts	6-12

REACTIONS (lb/size) 2=5568/0-5-8, (req. 0-6-9), 10=4762/0-5-8, (req. 0-5-10)
Max Horiz 2=196 (LC 9)
Max Uplift 2=-81 (LC 10), 10=-38 (LC 11)

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

TOP CHORD	1-2=0/612, 2-3=-7004/743, 3-4=-11323/180, 4-5=-8624/86, 5-19=-7955/91, 6-19=-7596/106, 6-7=-5872/133, 7-20=-5818/113, 8-20=-6388/100, 8-9=-6103/70, 9-10=-4744/63
BOT CHORD	2-14=-228/9356, 13-14=-195/9933, 12-13=-19/6712, 11-12=-33/4953, 10-11=-28/268
WEBS	6-13=-41/5200, 9-11=-3/4460, 7-12=-119/4962, 6-12=-5415/154, 8-11=-2272/56, 4-13=-2811/159, 3-14=0/570

NOTES (11)

1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.79; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 12-11-3, Exterior(2R) 12-11-3 to 18-11-3, Interior (1) 18-11-3 to 24-9-4, Exterior(2E) 24-9-4 to 27-9-4 zone; 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=241.0 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) This truss has been designed for greater of min roof live load of 16.0 psf or 1.50 times flat roof load of 241.0 psf on overhangs non-concurrent with other live loads.
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) WARNING: Required bearing size at joint(s) 2, 10 greater than input bearing size.
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 81 lb uplift at joint 2 and 38 lb uplift at joint 10.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
11) 5-1/2" BRG AT JTS 2&10 SUPPORTS A REACTION OF _5568lbs w/ (1) 2x6_x18" BEARING BLOCK ATTACHED TO ONE FACE w/(2 ROWS OF 6) 10d NAILS MIN

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
J21-003868	A03G	Scissor Structural Gable	1	1	Job Reference (optional)

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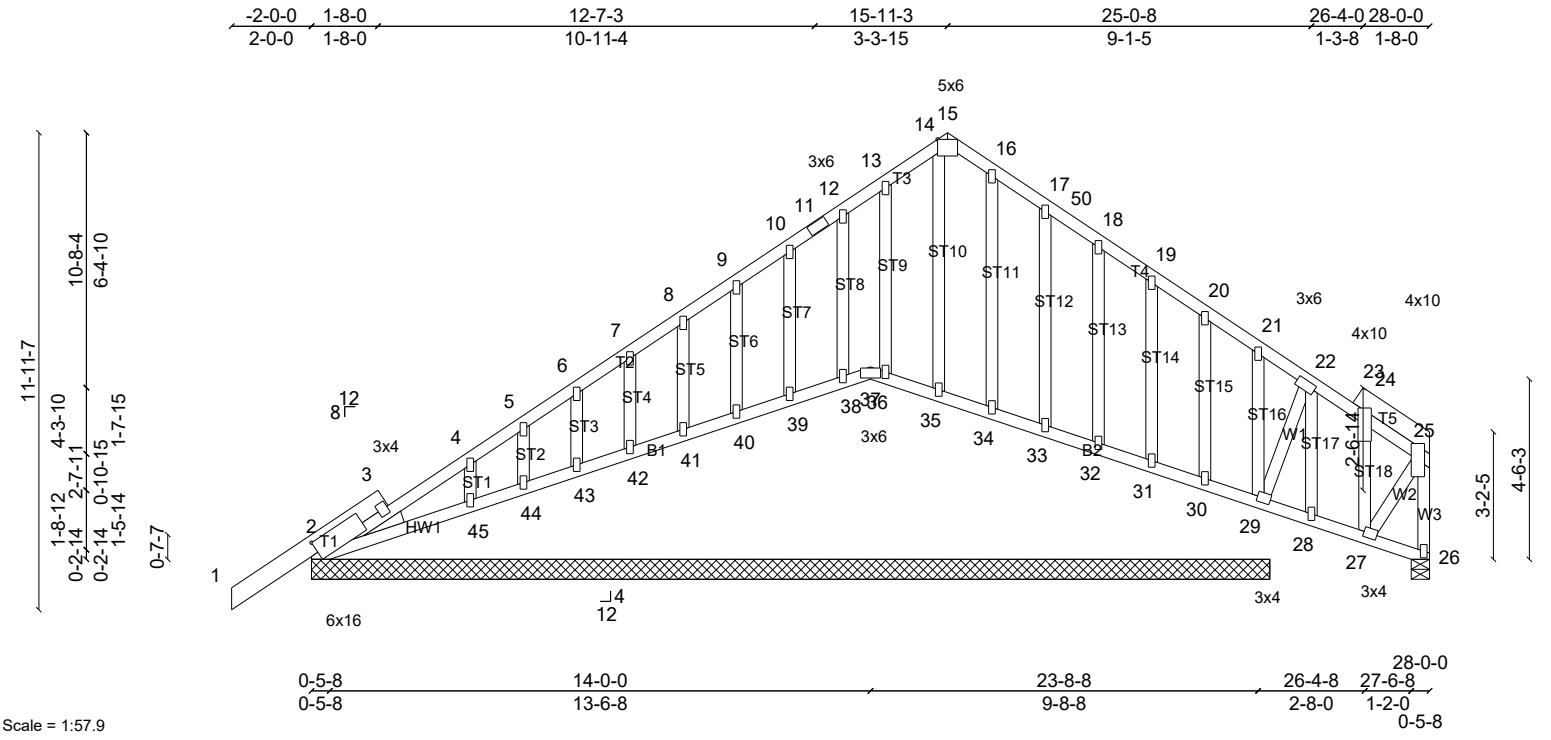

Scale = 1:57.9

Plate Offsets (X, Y): [2:0-1-6,0-3-7]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	241.0	Plate Grip DOL	1.00	TC	0.62	Vert(LL)	0.04	45-48	>999	240	MT20	197/144
(Roof Snow = 241.0)		Lumber DOL	1.00	BC	0.44	Vert(CT)	0.03	45-48	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.30	Horz(CT)	-0.01	2	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-AS								
BCDL	10.0	Additional Code: 2019 CRC									Weight: 170 lb	FT = 10%

LUMBER

TOP CHORD	2x4 SPF No.2 *Except* T1:2x6 SPF 2100F 1.8E, T5:2x6 HF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2
OTHERS	2x4 SPF No.2
WEDGE	Left: 2x4 SPF No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS All bearings 24-0-0. except 26=0-5-8
(lb) - Max Horiz 2=188 (LC 9), 46=188 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 29, 30, 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 46 except 45=-445 (LC 16)
Max Grav All reactions 250 (lb) or less at joint(s) 37 except 2=1461 (LC 1), 26=722 (LC 1), 29=970 (LC 1), 30=454 (LC 1), 31=468 (LC 1), 32=463 (LC 1), 33=466 (LC 1), 34=464 (LC 1), 35=454 (LC 1), 36=417 (LC 1), 38=409 (LC 1), 39=472 (LC 1), 40=463 (LC 1), 41=467 (LC 1), 42=452 (LC 1), 43=525 (LC 1), 44=296 (LC 16), 45=1046 (LC 1), 46=1461 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 25-26=-692/1, 1-2=0/550, 2-3=-210/503, 3-4=-143/296, 4-5=-252/100, 24-25=-366/27
BOT CHORD 2-45=-527/81
WEBS 4-45=-882/288, 5-44=-263/25, 6-43=-484/36, 7-42=-439/34, 8-41=-447/34, 9-40=-446/34, 10-39=-453/34, 12-38=-393/33, 24-27=-377/19, 21-29=-417/17, 20-30=-450/39, 19-31=-446/34, 18-32=-446/34, 17-33=-447/42, 16-34=-446/0, 14-35=-435/56, 13-36=-401/30, 25-27=-10/355, 22-29=-488/79

5/14/21
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NOTES
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.79; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 12-11-3, Exterior(2R) 12-11-3 to 18-11-3, Interior (1) 18-11-3 to 24-10-7, Exterior(2E) 24-10-7 to 27-10-7 zone; 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=241.0 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.50 times flat roof load of 241.0 psf on overhangs non-concurrent with other live loads.
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) Bearing at joint(s) 26 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) 2, 37, 44, 43, 42, 41, 40, 39, 38, 29, 30, 31, 32, 33, 35, 36, 2 except (jt=lb) 45=444.

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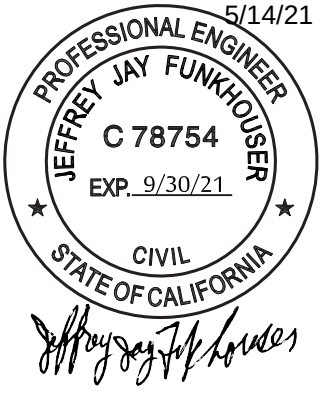
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

5/14/21



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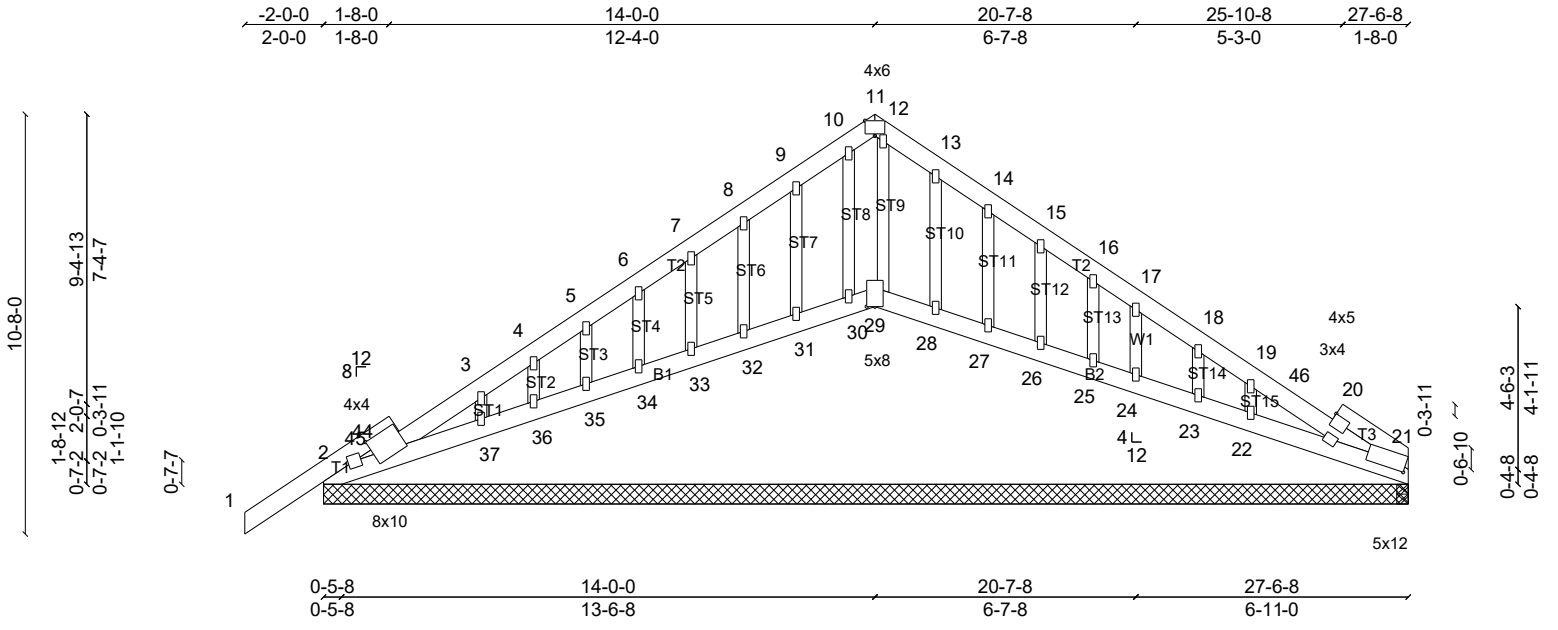
Job	Truss	Truss Type	Qty	Ply	
J21-003868	B01G	Scissor	1	1	Job Reference (optional)



Scale = 1:58.8

Plate Offsets (X, Y): [2:0-6-0,0-2-15], [11:0-3-0,Edge], [21:0-3-5,0-2-8], [29:Edge,0-2-8]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	241.0	Plate Grip DOL	1.00	TC	0.62	Vert(LL)	-0.01	43	>999	240	MT20	197/144
(Roof Snow = 241.0)		Lumber DOL	1.00	BC	0.20	Vert(CT)	-0.01	43	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-AS								
BCDL	10.0	Additional Code: 2019 CRC									Weight: 164 lb	FT = 10%

LUMBER

TOP CHORD	2x6 SPF 2100F 1.8E *Except* T3:2x6 HF No.2
BOT CHORD	2x6 SPF 2100F 1.8E
WEBS	2x4 SPF No.2
OTHERS	2x4 SPF No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS All bearings 27-6-8.
(lb) - Max Horiz 2=161 (LC 7), 38=161 (LC 7)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 22, 23, 24, 25, 26, 27, 28, 29, 31, 32, 33, 34, 35, 36, 38 except 37=-435 (LC 16)
Max Grav All reactions 250 (lb) or less at joint(s) 23 except 2=1989 (LC 1), 21=572 (LC 1), 22=1408 (LC 1), 24=545 (LC 1), 25=389 (LC 1), 26=471 (LC 1), 27=471 (LC 1), 28=454 (LC 1), 29=371 (LC 1), 30=344 (LC 1), 31=463 (LC 1), 32=470 (LC 1), 33=468 (LC 1), 34=452 (LC 1), 35=541 (LC 1), 36=285 (LC 16), 37=1557 (LC 1), 38=1989 (LC 1), 41=572 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=0/550, 2-44=-196/290, 2-44=-21/303, 2-45=-419/79, 3-4=-341/103, 18-19=-314/46
BOT CHORD 2-37=-483/168
WEBS 17-24=-456/35, 3-37=-1110/164, 5-35=-463/36, 6-34=-450/34, 7-33=-446/34, 8-32=-453/37, 9-31=-444/34, 10-30=-329/9, 19-22=-883/53, 18-23=-329/30, 16-25=-399/30, 15-26=-446/35, 14-27=-456/40, 13-28=-431/15, 12-29=-306/27

5/14/21

PROFESSIONAL ENGINEER
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EXP. 9/30/21
CIVIL
STATE OF CALIFORNIA

NOTES
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.79; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -2-0-0 to 1-0-0, Exterior(2N) 1-0-0 to 11-0-0, Corner(3R) 11-0-0 to 16-10-8, Exterior(2N) 16-10-8 to 24-4-12, Corner(3E) 24-4-12 to 27-4-12 zone; 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=241.0 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.50 times flat roof load of 241.0 psf on overhangs non-concurrent with other live loads.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 29, 24, 36, 35, 34, 33, 32, 31, 22, 23, 25, 26, 27, 28, 2 except (jt=lb) 37=435.
9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 21.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

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Continued on page 2

11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

5/14/21

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Job	Truss	Truss Type	Qty	Ply	
J21-003868	B02	Scissor	13	1	Job Reference (optional)

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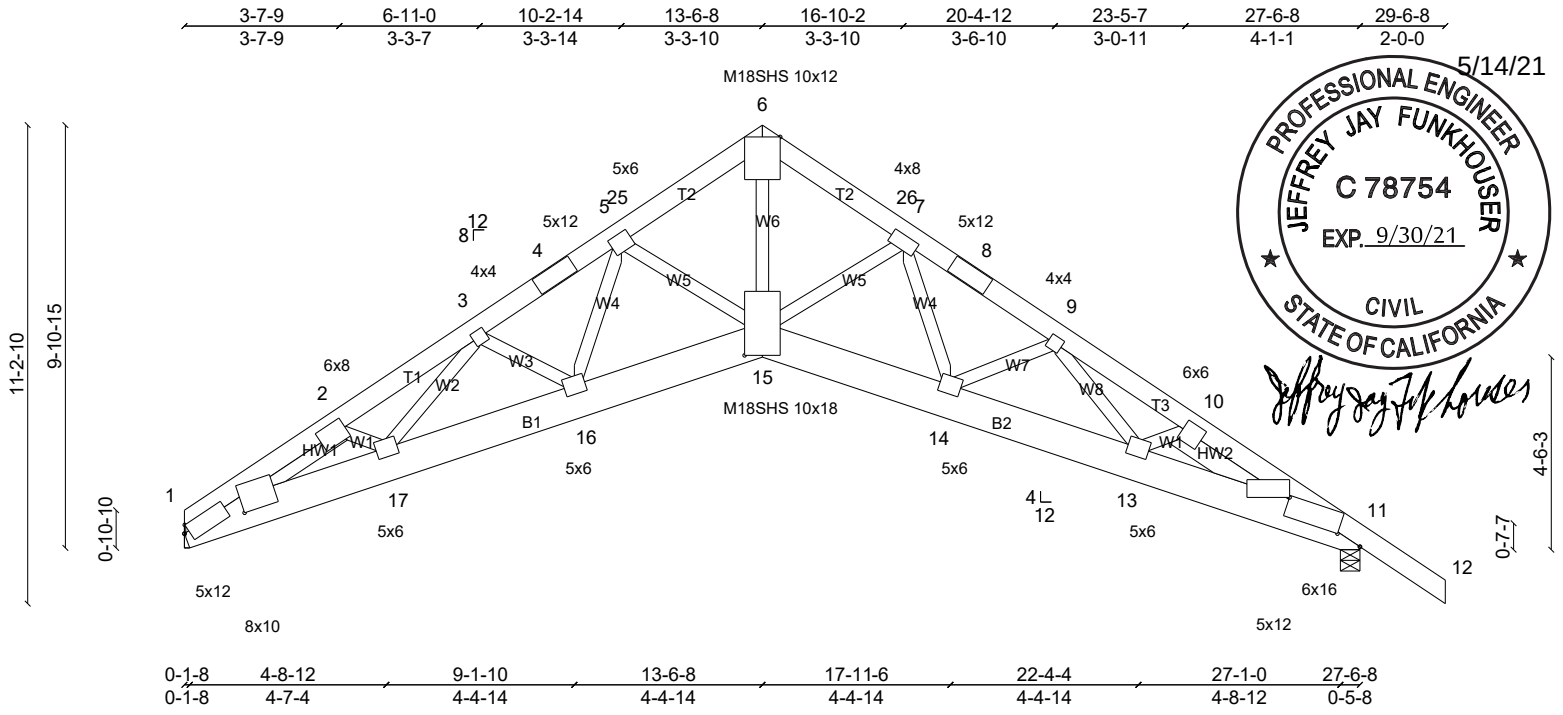

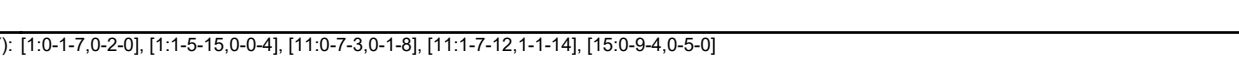

Scale = 1:54.2

Plate Offsets (X, Y): [1:0-1-7,0-2-0], [1:1-5-15,0-0-4], [11:0-7-3,0-1-8], [11:1-7-12,1-1-14], [15:0-9-4,0-5-0]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	241.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	-0.67	15	>495	240	MT20	137/130
(Roof Snow = 241.0)		Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.72	15	>456	180	M18SHS	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.59	11	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-AS								
BCDL	10.0	Additional Code: 2019 CRC									Weight: 224 lb	FT = 10%

LUMBER

TOP CHORD	2x6 SPF 2100F 1.8E *Except* T1,T3:1-1/2" x 5-1/2" VERSA-LAM® 1.7 2400 DF
BOT CHORD	1-1/2" x 9-1/4" VERSA-LAM® 2.0 2800 DF
WEBS	2x4 SPF No.2 *Except* W6:2x4 SPF 2100F 1.8E
SLIDER	Left 2x4 SPF No.2 -- 2-9-13, Right 2x6 SPF 2100F 1.8E -- 2-11-4

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS (lb/size) 1=4757/ Mechanical, (min. 0-1-8), 11=5475/0-5-8, (min. 0-4-8)
Max Horiz 1=-152 (LC 6)
Max Uplift 1=-48 (LC 10), 11=-77 (LC 11)

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

TOP CHORD	1-2=-6435/115, 2-3=-10906/164, 3-4=-10610/121, 4-5=-10260/129, 5-25=-8401/58, 6-25=-8396/73, 6-26=-8400/84, 7-26=-8462/69, 7-8=-10484/63, 8-9=-10853/55, 9-10=-11407/51, 10-11=-12006/61, 11-12=0/550
BOT CHORD	1-17=-168/9116, 16-17=-122/9870, 15-16=-38/8645, 14-15=0/8787, 13-14=0/10257, 11-13=0/10143
WEBS	6-15=-46/7785, 5-15=-1713/110, 2-17=0/613, 3-17=-581/7, 3-16=-960/88, 5-16=-47/1312, 7-15=-1887/113, 7-14=-43/1498, 9-14=-1079/93, 9-13=-449/53, 10-13=-406/65

NOTES

1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.79; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 10-6-8, Exterior(2R) 10-6-8 to 16-6-8, Interior (1) 16-6-8 to 26-6-8, Exterior(2E) 26-6-8 to 29-6-8 zone; 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=241.0 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) This truss has been designed for greater of min roof live load of 16.0 psf or 1.50 times flat roof load of 241.0 psf on overhangs non-concurrent with other live loads.
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) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 1 and 77 lb uplift at joint 11.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
J21-003868	B03	Scissor	4	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri May 07 12:03:49 Page: 1

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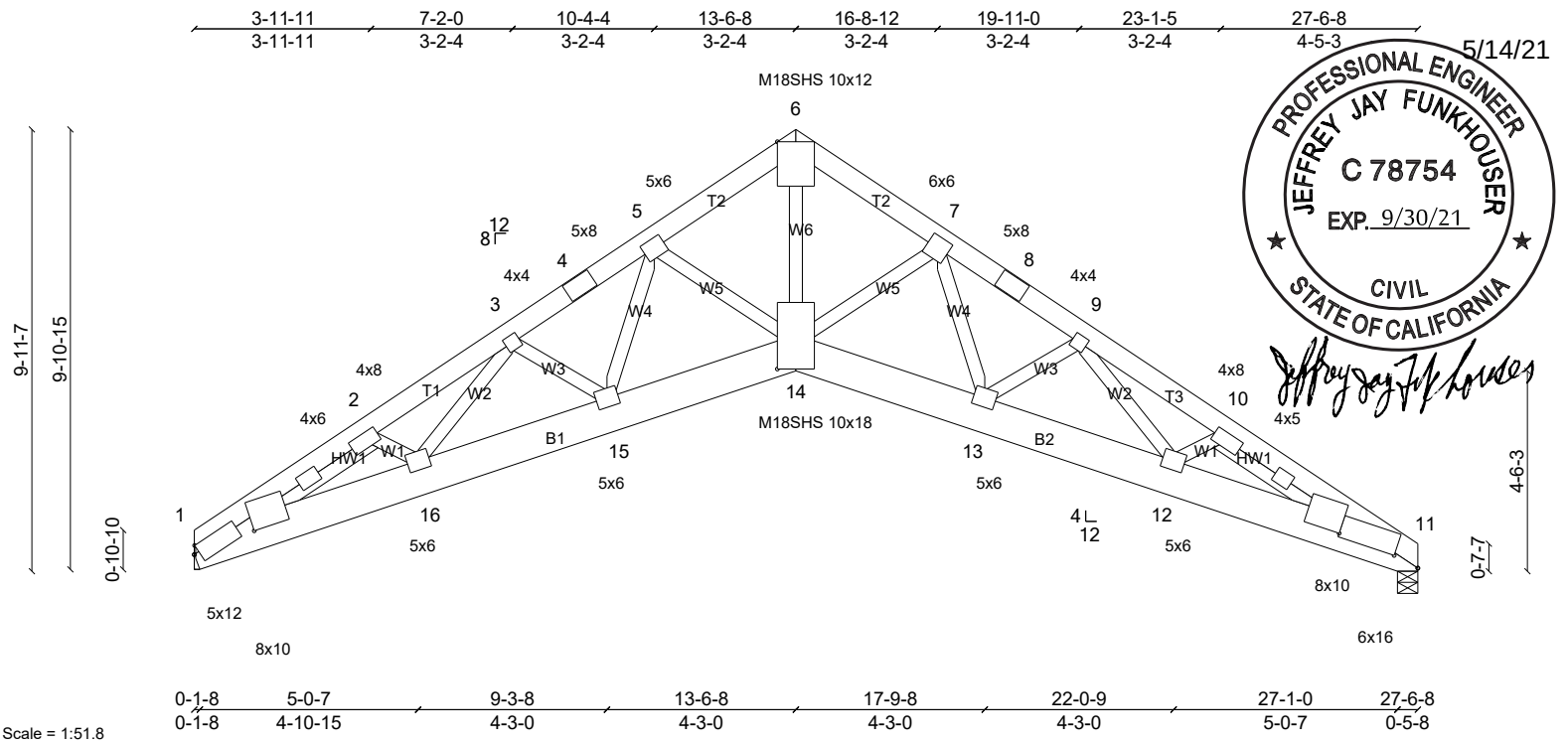

5/14/21

Scale = 1:51.8

Plate Offsets (X, Y): [1:0-1-7,0-2-0], [1:1-5-7,0-1-0], [11:0-7-3,0-1-4], [11:1-11-2,0-2-4], [14:0-9-4,0-5-0]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	241.0	Plate Grip DOL	1.00	TC	0.70	Vert(LL)	-0.65	14	>502	240	MT20	197/144
(Roof Snow = 241.0)		Lumber DOL	1.00	BC	0.89	Vert(CT)	-0.71	14	>463	180	M18SHS	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.59	11	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-AS								
BCDL	10.0	Additional Code: 2019 CRC									Weight: 210 lb	FT = 10%

LUMBER

TOP CHORD	2x6 SPF 2100F 1.8E
BOT CHORD	1-1/2" x 9-1/4" VERSA-LAM® 2.0 2800 DF
WEBS	2x4 SPF No.2 *Except* W6:2x4 SPF 2100F 1.8E
SLIDER	Left 2x4 SPF No.2 -- 3-2-6, Right 2x4 SPF No.2 -- 3-2-6

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS (lb/size) 1=4742/ Mechanical, (min. 0-1-8), 11=4742/0-5-8, (min. 0-3-14)
Max Horiz 1=-136 (LC 6)
Max Uplift 1=-48 (LC 10), 11=-50 (LC 11)

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

TOP CHORD	1-2=-6727/129, 2-3=-10910/181, 3-4=-10489/138, 4-5=-10147/146, 5-6=-8330/92, 6-7=-8331/102, 7-8=-10297/106, 8-9=-10636/98, 9-10=-11542/122, 10-11=-7727/94
BOT CHORD	1-16=-194/9310, 15-16=-146/9759, 14-15=-65/8545, 13-14=0/8637, 12-13=-23/10020, 11-12=-57/10008
WEBS	6-14=-67/7729, 2-16=0/341, 3-16=-386/23, 3-15=-987/87, 5-15=-50/1366, 5-14=-1687/107, 7-14=-1799/111, 7-13=-52/1518, 9-13=-1162/94

NOTES

1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.79; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-12 to 3-0-12, Interior (1) 3-0-12 to 10-4-4, Exterior(2R) 10-4-4 to 16-8-12, Interior (1) 16-8-12 to 24-3-12, Exterior(2E) 24-3-12 to 27-3-12 zone; 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=241.0 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
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) Bearing at joint(s) 11 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 capable of withstanding 48 lb uplift at joint 1 and 50 lb uplift at joint 11.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
J21-003868	C01G	Monopitch Supported Gable	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri May 07 12:03:49 Page: 1
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5/14/21

PROFESSIONAL ENGINEER
JEFFREY JAY FUNKHOUSER
C 78754
EXP. 9/30/21
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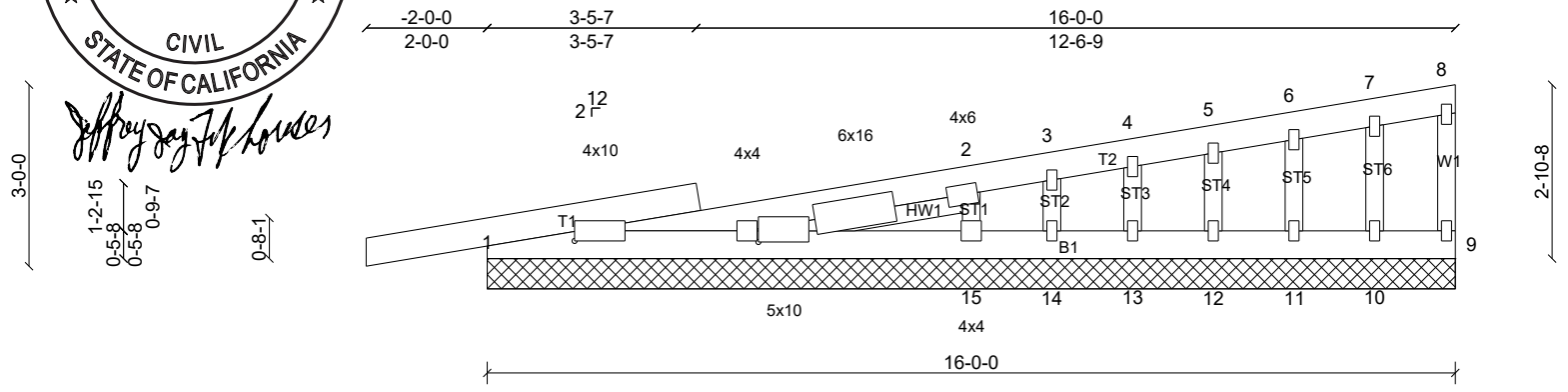
STATE OF CALIFORNIA



Scale = 1:38.2

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	271.0	Plate Grip DOL	1.00	TC	0.86	Vert(LL)	n/a	-	n/a	999	MT20	137/130
(Roof Snow = 271.0)		Lumber DOL	1.00	BC	0.87	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	NO	WB	0.33	Horiz(TL)	0.00	15	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-AS								
BCDL	10.0	Additional Code: 2019 CRC									Weight: 91 lb	FT = 10%

LUMBER

TOP CHORD	1-1/2" x 5-1/2" VERSA-LAM® 1.7 2400 DF
BOT CHORD	1-1/2" x 5-1/2" VERSA-LAM® 1.7 2400 DF
WEBS	2x4 SPF No.2
OTHERS	2x4 SPF No.2
SLIDER	Left 2x4 SPF No.2 -- 3-7-5

BRACING

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS All bearings 16-0-0.
(lb) - Max Horiz 1=60 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 9, 10, 11, 12, 13, 15 except 14=-2132 (LC 19)
Max Grav All reactions 250 (lb) or less at joint(s) 9, 14 except 1=1471 (LC 19), 10=645 (LC 19), 11=638 (LC 19), 12=491 (LC 19), 13=1144 (LC 19), 15=4686 (LC 19)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1694/53
WEBS 2-15=-2286/97, 7-10=-592/28, 6-11=-596/37, 5-12=-593/37, 4-13=-665/40, 3-14=-2/428

NOTES
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.79; 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 12-10-4, Corner(3E) 12-10-4 to 15-10-4 zone; 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=271.0 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 15, 10, 11, 12, 13 except (jt=lb) 14=2131.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
12) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
J21-003868	C02	Monopitch	7	1	Job Reference (optional)

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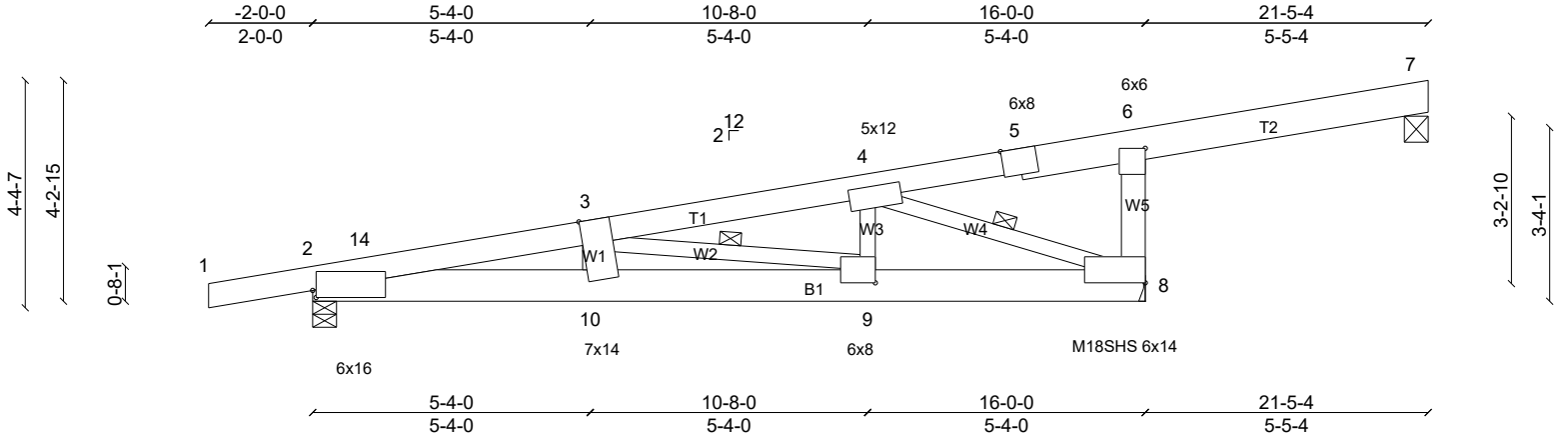

Scale = 1:44.4

Plate Offsets (X, Y): [2:0-0-13,0-1-10], [5:0-4-0,Edge], [6:0-3-0,0-2-12], [9:0-3-8,0-3-0]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	271.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.45	9-10	>421	240	MT20	137/130
(Roof Snow = 271.0)		Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.48	9-10	>395	180	M18SHS	137/130
TCDL	10.0	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.07	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-AS								
BCDL	10.0	Additional Code: 2019 CRC									Weight: 118 lb	FT = 10%

LUMBER
TOP CHORD 1-1/2" x 7-1/4" VERSA-LAM® 2.0 2800 DF *Except* T1:1-1/2" x 5-1/2" VERSA-LAM® 1.7 2400 DF
BOT CHORD 1-1/2" x 7-1/4" VERSA-LAM® 2.0 2800 DF
WEBS 2x4 SPF No.2 *Except* W5:2x6 HF No.2, W4:2x4 SPF 1650F 1.5E

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-8, 3-9

REACTIONS (lb/size) 2=3729/0-5-8, (min. 0-3-14), 7=650/0-5-8, (min. 0-1-8), 8=4526/ Mechanical, (min. 0-1-8)
Max Horiz 2=78 (LC 9)
Max Uplift 2=-97 (LC 8), 7=-32 (LC 8), 8=-117 (LC 12)
Max Grav 2=4360 (LC 19), 7=764 (LC 19), 8=5293 (LC 19)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-14=-4699/965, 2-14=-4544/970, 2-3=-9761/118, 3-4=-6018/71, 6-7=-267/86, 6-8=-3028/98
BOT CHORD 2-10=-1143/9569, 9-10=-151/9569, 8-9=-80/5800
WEBS 4-8=-6186/103, 3-10=-522/74, 3-9=-3839/270, 4-9=0/1023

NOTES
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.79; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 21-2-8 zone; 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=271.0 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 1.50 times flat roof load of 271.0 psf on overhangs non-concurrent with other live loads.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 7, 117 lb uplift at joint 8 and 97 lb uplift at joint 2.
8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

5/14/21
PROFESSIONAL ENGINEER
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EXP. 9/30/21
CIVIL
STATE OF CALIFORNIA

Job	Truss	Truss Type	Qty	Ply	
J21-003868	C03G	Monopitch Structural Gable	1	1	Job Reference (optional)

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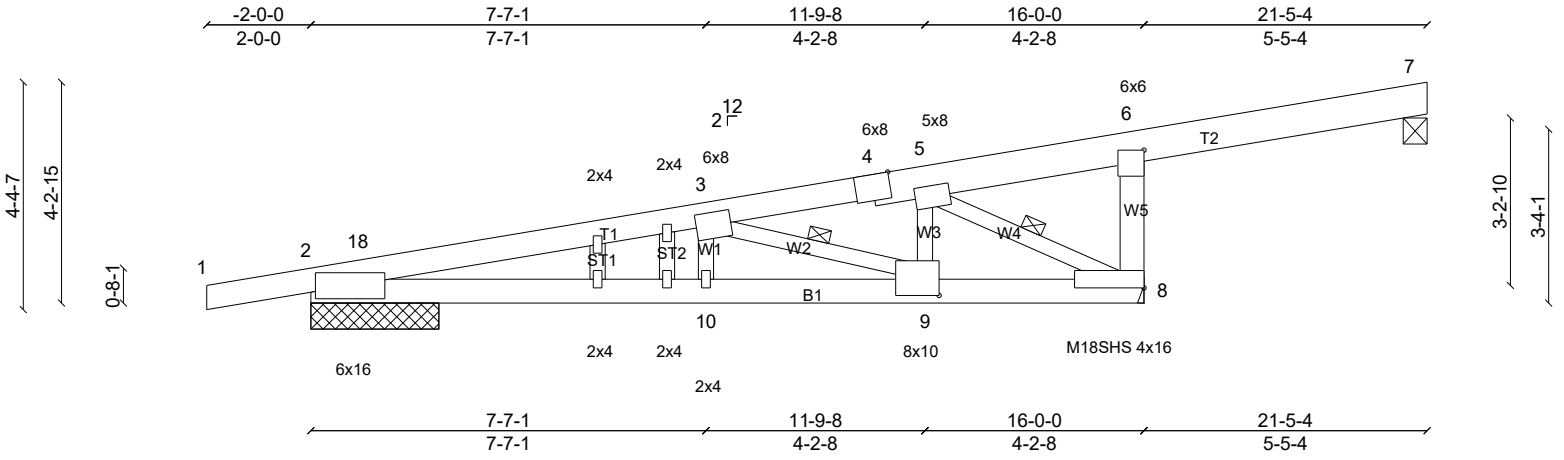

Scale = 1:44.4

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	271.0	Plate Grip DOL	1.00	TC	0.98	Vert(LL)	-0.42	10-17	>446	240	MT20	137/130
(Roof Snow = 271.0)		Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.45	10-17	>417	180	M18SHS	185/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.09	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0	Additional Code: 2019 CRC									Weight: 105 lb	FT = 10%

LUMBER

TOP CHORD	1-1/2" x 7-1/4" VERSA-LAM® 2.0 2800 DF *Except* T1:1-1/2" x 5-1/2" VERSA-LAM® 1.7 2400 DF
BOT CHORD	2x6 SPF 2100F 1.8E
WEBS	2x4 SPF No.2 *Except* W5:2x6 HF No.2
OTHERS	2x4 SPF No.2

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 5-8, 3-9

REACTIONS (lb/size) 2=3730/2-5-8, (min. 0-5-9), 7=652/0-5-8, (min. 0-1-8), 8=4523/ Mechanical, (min. 0-1-8)
Max Horiz 2=79 (LC 9)
Max Uplift 2=-96 (LC 8), 7=-33 (LC 8), 8=-116 (LC 12)
Max Grav 2=4361 (LC 19), 7=767 (LC 19), 8=5290 (LC 19)

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

TOP CHORD	6-8=-3025/94, 2-18=-3237/1213, 2-18=-3139/1216, 2-3=-9114/112, 3-4=-4379/50, 4-5=-4164/55, 5-6=-38/270, 6-7=-267/87
BOT CHORD	2-10=-1247/8775, 9-10=-138/8775, 8-9=-51/4154
WEBS	5-8=-4744/78, 3-9=-4898/195, 5-9=0/1729

NOTES

1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.79; Cat. II; Exp C; Enclosed; MWFRS (envelope) extend zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 21-2-8 zone; 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=271.0 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 20.0 psf or 1.50 times flat roof load of 271.0 psf on overhangs non-concurrent with other live loads.
6) All plates are MT20 plates unless otherwise indicated.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 8, 96 lb uplift at joint 2 and 33 lb uplift at joint 7.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

5/14/21

PROFESSIONAL ENGINEER
JEFFREY JAY FUNKHOUSER
C 78754
EXP. 9/30/21
CIVIL
STATE OF CALIFORNIA

Job	Truss	Truss Type	Qty	Ply	
J21-003868	C04	Monopitch	10	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri May 07 12:03:50 Page: 1
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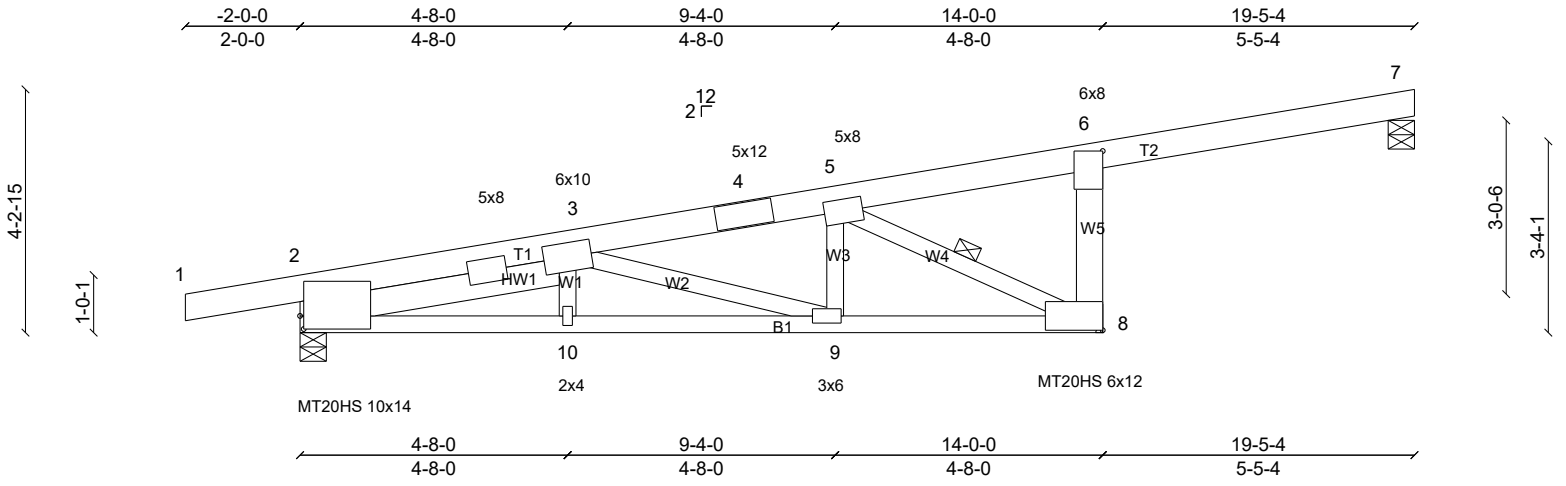

Scale = 1:40.4

Plate Offsets (X, Y): [2:0-0-12,0-2-12], [6:0-4-0,0-2-12]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	271.0	Plate Grip DOL	1.00	TC	0.90	Vert(LL)	-0.28	9-10	>596	240	MT20	137/130
(Roof Snow = 271.0)		Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.30	9-10	>554	180	MT20HS	139/108
TCDL	10.0	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.09	8	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-AS								
BCDL	10.0	Additional Code: 2019 CRC									Weight: 89 lb	FT = 10%

LUMBER
TOP CHORD 1-1/2" x 5-1/2" VERSA-LAM® 1.7 2400 DF
BOT CHORD 2x4 SPF 2100F 1.8E
WEBS 2x4 SPF No.2 *Except* W5:2x6 HF No.2
SLIDER Left 2x6 HF No.2 -- 4-7-8

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-8

REACTIONS (lb/size) 2=3372/0-5-8, (min. 0-5-0), 7=758/0-5-8, (min. 0-1-8), 8=3999/ Mechanical, (min. 0-1-8)
Max Horiz 2=77 (LC 9)
Max Uplift 2=-88 (LC 8), 7=-34 (LC 8), 8=-109 (LC 12)
Max Grav 2=3920 (LC 19), 7=885 (LC 19), 8=4650 (LC 19)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2566/969, 3-4=-4059/62, 4-5=-3883/65, 5-6=-53/283, 6-8=-2658/105
BOT CHORD 2-10=-431/5912, 9-10=-159/5926, 8-9=-52/3894
WEBS 5-8=-4443/98, 3-9=-2134/272, 5-9=-9/751

NOTES
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.79; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 3-3-9, Interior (1) 3-3-9 to 21-2-8 zone; 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=271.0 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 1.50 times flat roof load of 271.0 psf on overhangs non-concurrent with other live loads.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 7, 109 lb uplift at joint 8 and 88 lb uplift at joint 2.
8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

5/14/21

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Job	Truss	Truss Type	Qty	Ply	
J21-003868	C05G	Monopitch Supported Gable	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri May 07 12:03:50 Page: 1
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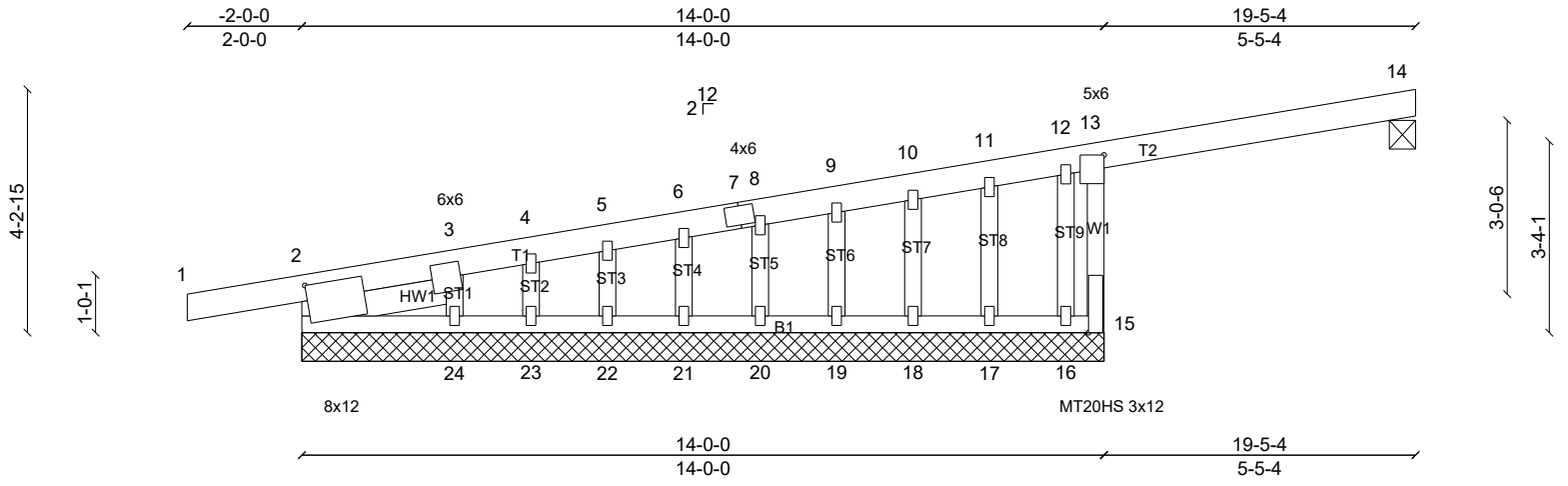

Scale = 1:40.4

Plate Offsets (X, Y): [2:0-6-0,0-7-7], [13:0-3-0,0-1-12]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	271.0	Plate Grip DOL	1.00	TC	0.66	Vert(LL)	0.01	27	>999	240	MT20	137/130
(Roof Snow = 271.0)		Lumber DOL	1.00	BC	0.10	Vert(CT)	0.01	27	>999	180	MT20HS	148/108
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-AS								
BCDL	10.0	Additional Code: 2019 CRC									Weight: 86 lb	FT = 10%

LUMBER

TOP CHORD	1-1/2" x 5-1/2" VERSA-LAM® 1.7 2400 DF
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2
OTHERS	2x4 SPF No.2
SLIDER	Left 2x6 HF No.2 -- 2-7-3

BRACING

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS All bearings 14-0-0. except 14=0-5-8
(lb) - Max Horiz 2=77 (LC 9), 25=77 (LC 9)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 14, 15, 16, 18, 19, 20, 21, 22, 23, 25 except 24=-499 (LC 18)
Max Grav All reactions 250 (lb) or less at joint(s) 16, 17 except 2=1751 (LC 19), 14=957 (LC 19), 15=2234 (LC 19), 18=637 (LC 19), 19=623 (LC 19), 20=599 (LC 19), 21=600 (LC 19), 22=603 (LC 19), 23=584 (LC 19), 24=633 (LC 19), 25=1751 (LC 19)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-56/798, 13-15=-2311/170
WEBS 3-24=-609/428, 4-23=-568/43, 5-22=-584/40, 6-21=-582/41, 8-20=-580/41, 9-19=-605/42, 10-18=-617/44

5/14/21

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NOTES
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.79; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-0 to 3-3-9, Exterior(2N) 3-3-9 to 21-2-8 zone; 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=271.0 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 20.0 psf or 1.50 times flat roof load of 271.0 psf on overhangs non-concurrent with other live loads.
6) All plates are MT20 plates unless otherwise indicated.
7) All plates are 2x4 MT20 unless otherwise indicated.
8) Gable studs spaced at 1-4-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 15, 2, 23, 22, 21, 20, 19, 18, 16, 2 except (jt=lb) 24=498.
11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 14.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

P.E. Robbins, P.E. Victoria, IL 61485 PER211333

Job	Truss	Truss Type	Qty	Ply	
J21-003868	V01	Valley	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri May 07 12:03:50 Page: 1
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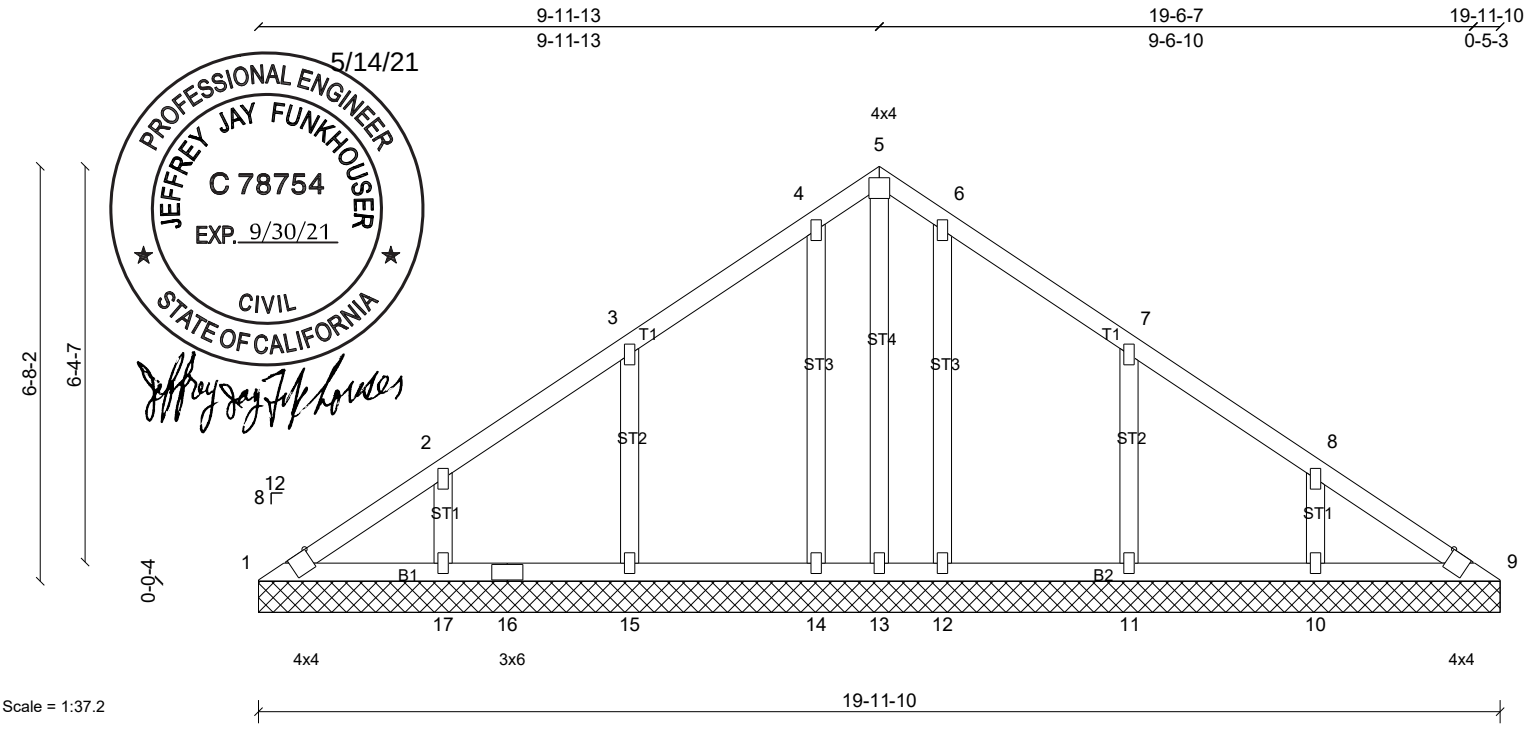

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	241.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow = 241.0)		Lumber DOL	1.00	BC	0.34	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.45	Horiz(TL)	0.00	17	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-AS								
BCDL	10.0										Weight: 79 lb	FT = 10%

Additional Code: 2019 CRC

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.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS All bearings 19-11-10.
(lb) - Max Horiz 1=-97 (LC 6)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 10, 11, 12, 13, 14, 15, 17
Max Grav All reactions 250 (lb) or less at joint(s) 13 except 1=346 (LC 1), 9=346 (LC 1), 10=1143 (LC 1), 11=1059 (LC 1), 12=846 (LC 1), 14=846 (LC 1), 15=1059 (LC 1), 17=1143 (LC 1)

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

TOP CHORD	1-2=-400/415, 2-3=-136/428, 3-4=-153/404, 6-7=-153/404, 7-8=-129/428, 8-9=-60/415
BOT CHORD	1-17=-120/298
WEBS	2-17=-980/80, 3-15=-1048/89, 4-14=-794/50, 8-10=-980/80, 7-11=-1048/89, 6-12=-794/48

NOTES

1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.79; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-6 to 3-0-0, Exterior(2N) 3-0-0 to 7-0-3, Corner(3R) 7-0-3 to 13-0-3, Exterior(2N) 13-0-3 to 17-0-0, Corner(3E) 17-0-0 to 20-0-0 zone; 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=241.0 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 3-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 17, 15, 14, 10, 11, 12, 13.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
J21-003868	V02	Valley	1	1	Job Reference (optional)

Run: 8.43 S Jan 4 2021 Print: 8.430 S Jan 4 2021 MiTek Industries, Inc. Fri May 07 12:03:50 Page: 1
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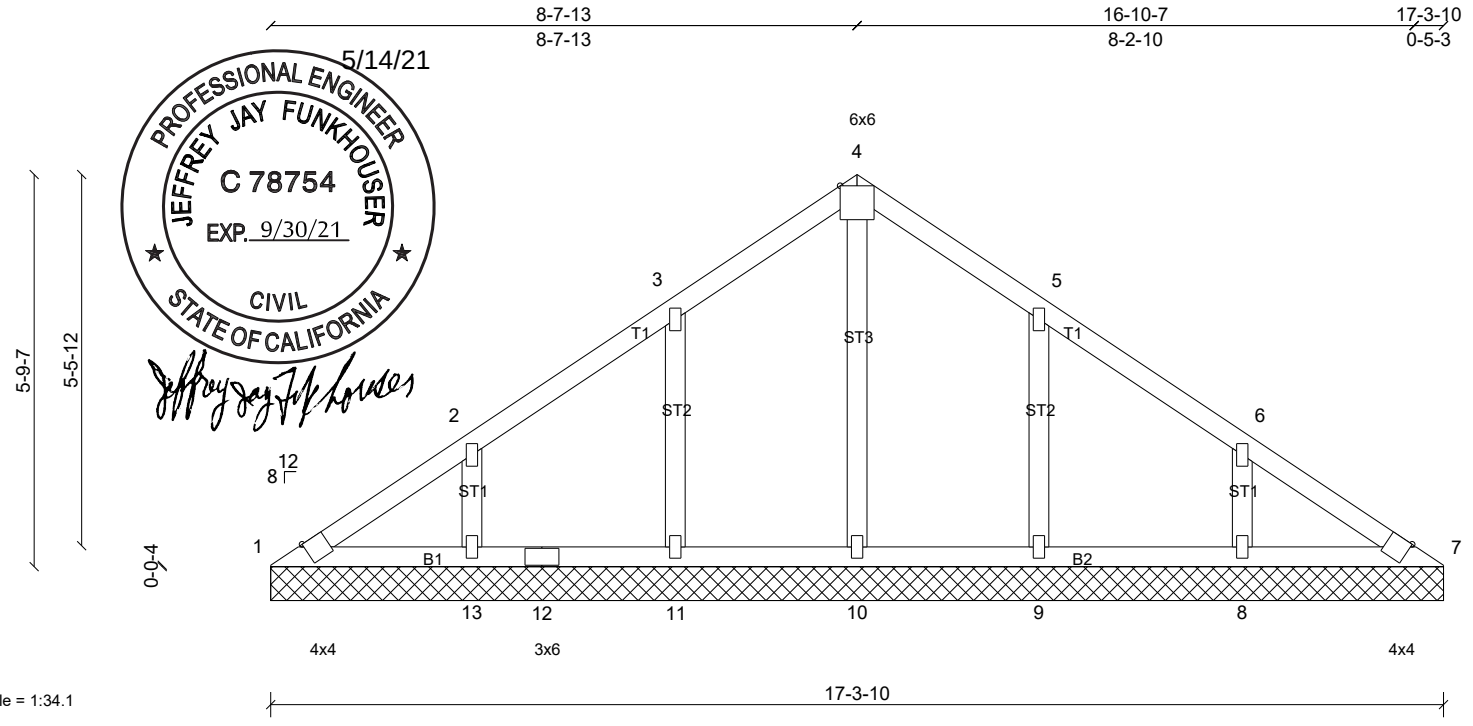


Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	241.0	Plate Grip DOL	1.00	TC	0.56	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow = 241.0)		Lumber DOL	1.00	BC	0.35	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.46	Horiz(TL)	0.01	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-AS								
BCDL	10.0										Weight: 59 lb	FT = 10%

Additional Code: 2019 CRC

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.
BOT CHORD Rigid ceiling directly applied.

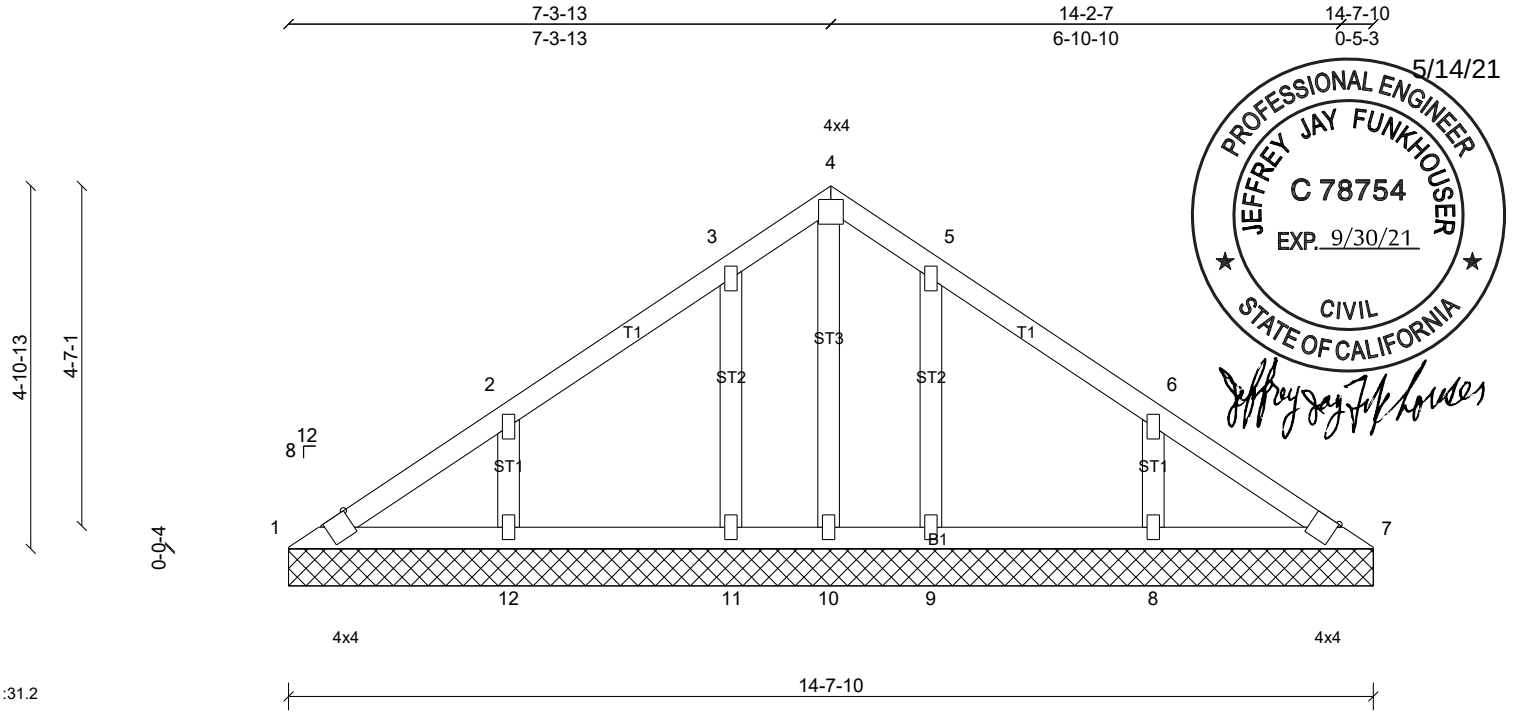
REACTIONS All bearings 17-3-10.
(lb) - Max Horiz 1=84 (LC 7)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 8, 9, 11, 13
Max Grav All reactions 250 (lb) or less at joint(s) except 1=388 (LC 1), 7=388 (LC 1), 8=1171 (LC 1), 9=993 (LC 1), 10=920 (LC 1), 11=993 (LC 1), 13=1171 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-476/321, 2-3=-235/322, 3-4=-226/272, 4-5=-226/272, 5-6=-235/322, 6-7=-46/321
BOT CHORD 1-13=-53/361
WEBS 2-13=-1003/92, 3-11=-988/87, 6-8=-1003/92, 5-9=-988/87, 4-10=-866/0

NOTES
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.79; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-6 to 3-0-0, Exterior(2N) 3-0-0 to 5-8-3, Corner(3R) 5-8-3 to 11-8-3, Exterior(2N) 11-8-3 to 14-4-0, Corner(3E) 14-4-0 to 17-4-0 zone; 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=241.0 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 3-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 11, 8, 9.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
J21-003868	V03	Valley	1	1	Job Reference (optional)



5/14/21

PROFESSIONAL ENGINEER
JEFFREY JAY FUNKHOUSER
C 78754
EXP. 9/30/21
CIVIL
STATE OF CALIFORNIA

Scale = 1:31.2

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	241.0	Plate Grip DOL	1.00	TC	0.62	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow = 241.0)		Lumber DOL	1.00	BC	0.32	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.22	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-AS								
BCDL	10.0										Weight: 52 lb	FT = 10%

Additional Code: 2019 CRC

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.
BOT CHORD Rigid ceiling directly applied.

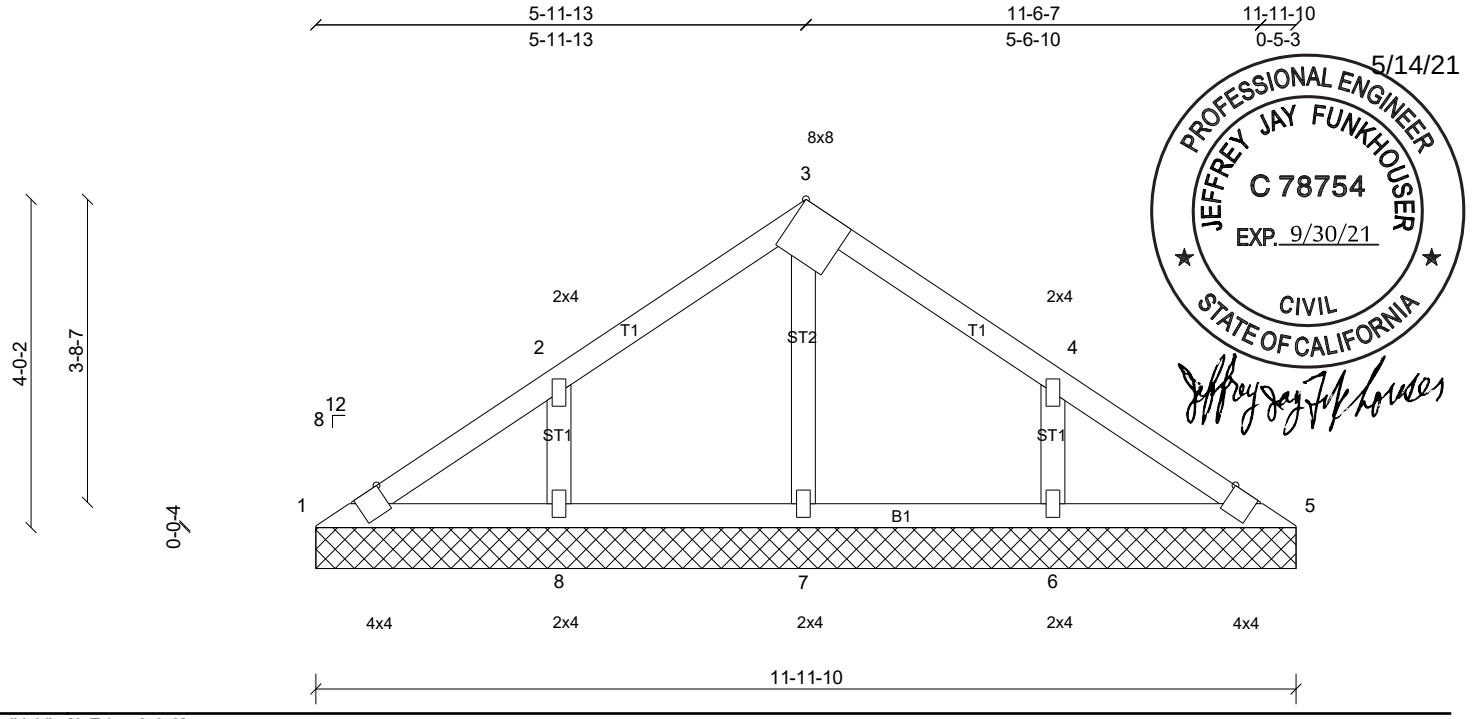
REACTIONS All bearings 14-7-10.
(lb) - Max Horiz 1=-70 (LC 8)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 8, 9, 11, 12
Max Grav All reactions 250 (lb) or less at joint(s) except 1=329 (LC 1), 7=330 (LC 1), 8=1188 (LC 1), 9=827 (LC 1), 10=408 (LC 1), 11=826 (LC 1), 12=1188 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-372/442, 2-3=-129/428, 5-6=-132/425, 6-7=-48/439
BOT CHORD 1-12=-137/273
WEBS 2-12=-1029/106, 3-11=-837/76, 6-8=-1029/106, 5-9=-837/76, 4-10=-359/9

NOTES
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.79; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-6 to 3-0-0, Exterior(2N) 3-0-0 to 4-4-3, Corner(3R) 4-4-3 to 10-4-3, Exterior(2N) 10-4-3 to 11-8-0, Corner(3E) 11-8-0 to 14-8-0 zone; 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=241.0 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 3-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 12, 11, 8, 9.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
J21-003868	V04	Valley	1	1	Job Reference (optional)



Scale = 1:28.3

5/14/21

PROFESSIONAL ENGINEER
JEFFREY JAY FUNKHOUSER
C 78754
EXP. 9/30/21
CIVIL
STATE OF CALIFORNIA

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	241.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow = 241.0)		Lumber DOL	1.00	BC	0.33	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.27	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-AS								
BCDL	10.0	Additional Code: 2019 CRC									Weight: 36 lb	FT = 10%

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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS All bearings 11-11-10.
(lb) - Max Horiz 1=-57 (LC 6)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 6, 8
Max Grav All reactions 250 (lb) or less at joint(s) except 1=360 (LC 1), 5=365 (LC 1), 6=1208 (LC 1), 7=1028 (LC 1), 8=1207 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-428/372, 2-3=-206/354, 3-4=-216/344, 4-5=-32/362
BOT CHORD 1-8=-76/320
WEBS 2-8=-1042/118, 4-6=-1042/118, 3-7=-1042/12

NOTES
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.79; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-6 to 3-0-0, Corner(3R) 3-0-0 to 9-0-6, Corner(3E) 9-0-6 to 12-0-0 zone; 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=241.0 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 3-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 6.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
J21-003868	V05	Valley	1	1	Job Reference (optional)

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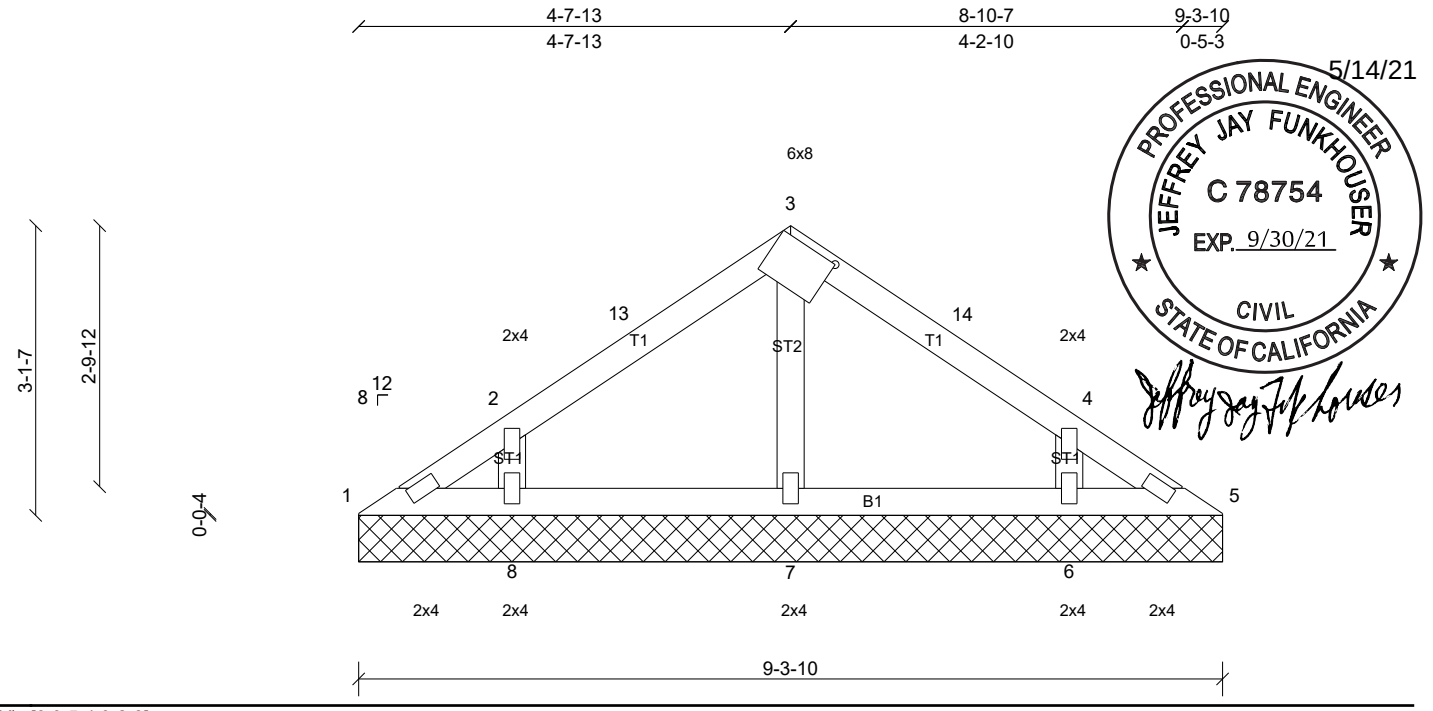

Scale = 1:24.9

5/14/21

PROFESSIONAL ENGINEER
JEFFREY JAY FUNKHOUSER
C 78754
EXP. 9/30/21
CIVIL
STATE OF CALIFORNIA

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

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	241.0	Plate Grip DOL	1.00	TC	0.47	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow = 241.0)		Lumber DOL	1.00	BC	0.07	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-AS								
BCDL	10.0	Additional Code: 2019 CRC									Weight: 26 lb	FT = 10%

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.
BOT CHORD	Rigid ceiling directly applied.

REACTIONS All bearings 9-3-10.
(lb) - Max Horiz 1=44 (LC 7)
Max Uplift All uplift 100 (lb) or less at joint(s) 1, 6, 8
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=981 (LC 1), 7=849 (LC 1), 8=981 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-13=-446/55, 4-14=-446/55
WEBS 3-7=-804/19, 2-8=-976/136, 4-6=-976/136

NOTES
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.79; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-6 to 3-0-6, Corner(3R) 3-0-6 to 6-4-0, Corner(3E) 6-4-0 to 9-4-0 zone; 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=241.0 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 3-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 6.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	
J21-003868	V06	Valley	1	1	Job Reference (optional)

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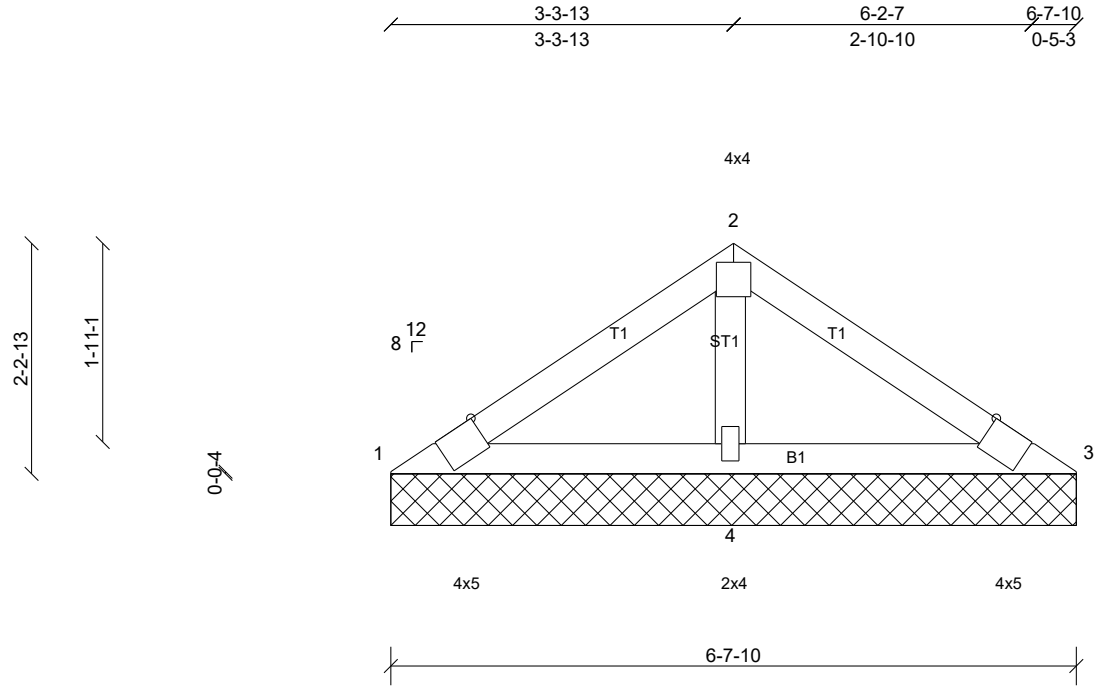

Scale = 1:22.4

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	241.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow = 241.0)		Lumber DOL	1.00	BC	0.64	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.23	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-AS								
BCDL	10.0										Weight: 17 lb	FT = 10%

Additional Code: 2019 CRC

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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (lb/size) 1=203/6-7-10, (min. 0-3-10), 3=220/6-7-10, (min. 0-3-10), 4=1886/6-7-10, (min. 0-3-10)
Max Horiz 1=-31 (LC 6)
Max Uplift 3=-6 (LC 11), 4=-24 (LC 10)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-114/812, 2-3=-39/785
BOT CHORD 1-4=-540/74, 3-4=-516/73
WEBS 2-4=-1454/93

NOTES
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.79; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-6 to 3-0-6, Exterior(2R) 3-0-6 to 3-8-0, Exterior(2E) 3-8-0 to 6-8-0 zone; 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=241.0 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 3 and 24 lb uplift at joint 4.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

5/14/21

P.E. Robbins, P.E. Victoria, IL 61485 PER211333

Job	Truss	Truss Type	Qty	Ply	
J21-003868	V07	Valley	1	1	Job Reference (optional)

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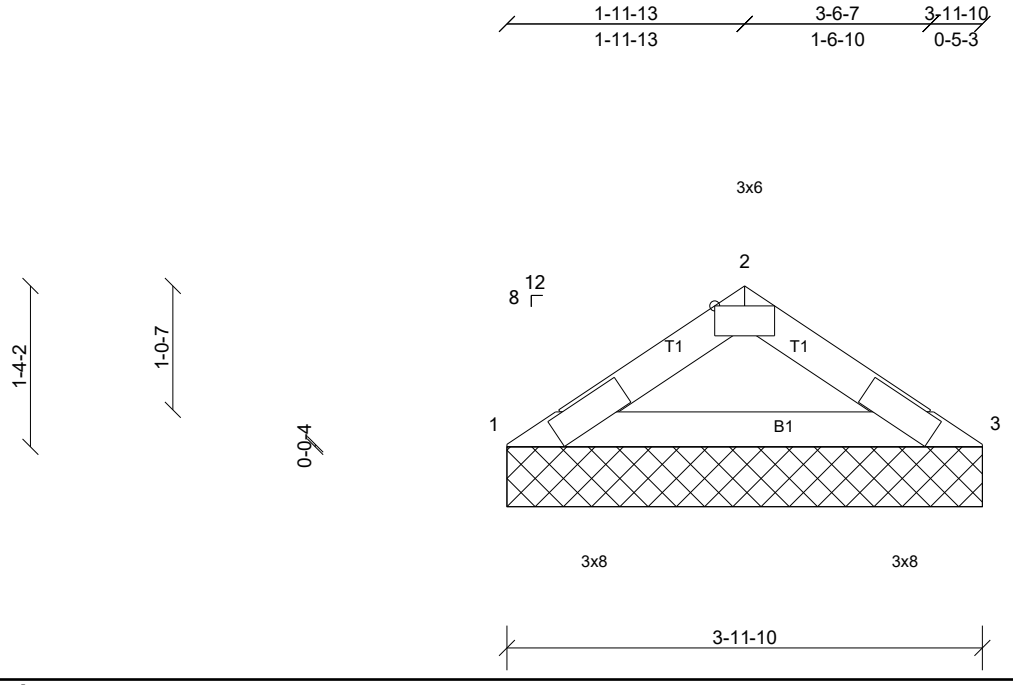

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Plate Offsets (X, Y): [2:0-3-0,Edge]

Loading	(psf)	Spacing	1-4-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	241.0	Plate Grip DOL	1.00	TC	0.44	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow = 241.0)		Lumber DOL	1.00	BC	0.45	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	3	n/a	n/a		
BCLL	0.0	Code	IBC2018/TPI2014	Matrix-MP								
BCDL	10.0	Additional Code: 2019 CRC									Weight: 9 lb	FT = 10%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-11-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=691/3-11-10, (min. 0-2-3), 3=691/3-11-10, (min. 0-2-3)
Max Horiz 1=-17 (LC 8)
Max Uplift 1=-8 (LC 10), 3=-8 (LC 11)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1042/60, 2-3=-673/44
BOT CHORD 1-3=-42/825

NOTES
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ke=0.79; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; 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=241.0 psf (Lum DOL=1.00 Plate DOL=1.00); Is=1.0; Rough Cat C; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10; IBC 1607.11.2 minimum roof live load applied where required.
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 1 and 8 lb uplift at joint 3.
6) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

5/14/21

P.E. Robbins, P.E. Victoria, IL 61485 PER211333

05/14/2021