BRADLEY HEIGHTS SS LLC

BRADLEY HEIGHTS APARTMENTS

BUILDINGS ‘A’ Through ‘H’

202 27th Avenue SE

Puyallup, WA

FULL SIZED LEDGIBLE COLOR REPORT IS REQUIRED TO BE PROVIDED BY THE PERMITTEE ON SITE FOR ALL INSPECTIONS

SUBMITTAL #1

Date: May 29, 2023

Alliance Job # N0653

Representative: Craig Westerberg

PRMU20240279 BLD H

MiTek Canada, Inc.
240 Stirling Crescent
Bradford, ON. Canada L3Z 4L5
Phone (905) 952-2900
Toll Free (800) 268-3434

Re: N0653

TIMBERLANE-202 27th Ave SE-Puyallup-WA

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Alliance Truss (CA).

Pages or sheets covered by this seal: U1488906 thru U1489002

My license renewal date for the state of Washington is February 17, 2024.

May 22,2023

Garcia, Juan

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

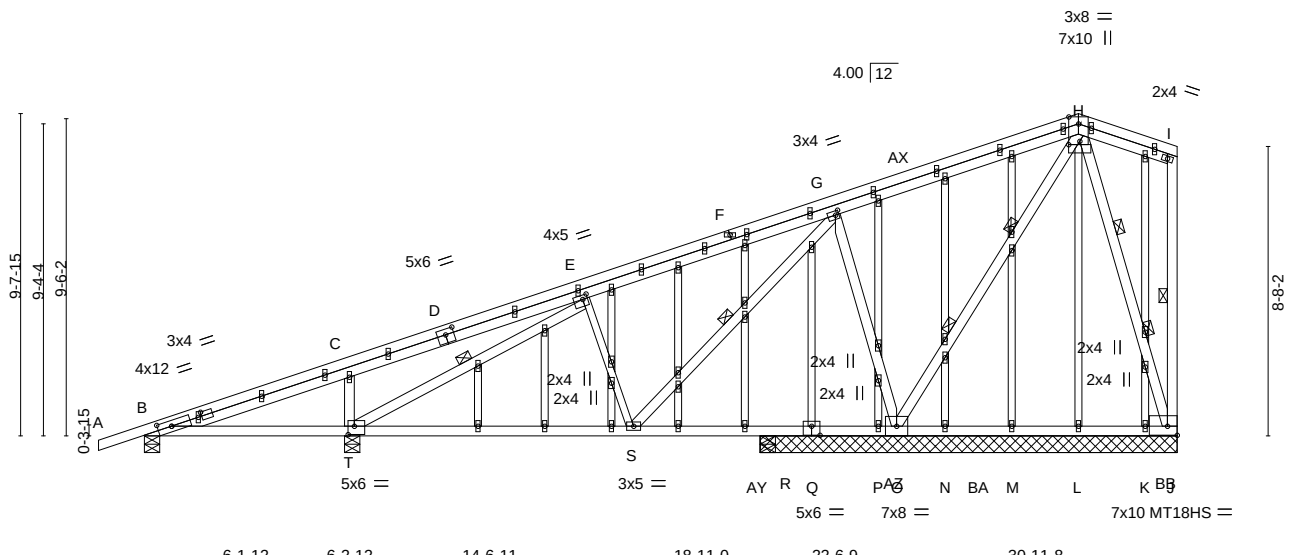
PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	A1	GABLE	7	1	U1488906
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:45:12 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1-4-8	6-1-12	13-2-13	20-8-9	28-0-0	30-11-8
1-4-8	6-1-12	7-1-1	7-5-12	7-3-7	2-11-8

Scale = 1:69.1



6-1-12	6-2-12	14-6-11	18-11-0	22-6-9	30-11-8
6-1-12	0-1-0	8-3-15	4-4-5	3-7-9	8-4-15

Plate Offsets (X,Y)-- [B:0-5-0,0-2-0], [B:0-11-7,0-1-8], [D:0-3-0,0-2-0], [E:0-1-12,0-1-8], [G:0-1-4,0-1-8], [H:0-4-0,0-1-3], [J:Edge,0-3-4], [Q:0-3-0,0-3-4], [T:0-2-4,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.14	S-T	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.24	S-T	>616	240	MT18HS	197/144
TCDL	12.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	-0.14	K	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.10	S-T	>999	240	Weight: 224 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2 *Except*
	E-S: 2x3 SPF No.2, H-O: 2x4 SPF 2100F 1.8E
OTHERS	2x3 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 1-4-12 oc bracing.
WEBS	1 Row at midpt E-T, G-S, I-J
	2 Rows at 1/3 pts H-O, H-J

REACTIONS. All bearings 12-6-0 except (jt=length) B=0-5-8, T=0-5-8, R=0-5-8.
(lb) - Max Horz B=767(LC 35)
Max Uplift All uplift 100 lb or less at joint(s) P, K, R except B=-683(LC 32), T=-1390(LC 40), O=-3168(LC 32), J=-2861(LC 39)
Max Grav All reactions 250 lb or less at joint(s) L, M, N, P, K, R except B=862(LC 27), T=1967(LC 29), O=3358(LC 53), J=2755(LC 32)

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

TOP CHORD	B-C=-1871/1661, C-E=-1589/1525, E-G=-1305/1048, G-H=-2223/2315, H-I=-744/785
BOT CHORD	B-T=-1672/1563, S-T=-3848/3965, R-S=-4478/4400, P-R=-4445/4400, O-P=-2509/2431, N-O=-4102/4141, M-N=-3325/3278, L-M=-2136/2089, K-L=-948/900, J-K=-950/903
WEBS	C-T=-510/168, E-T=-2789/2606, E-S=-694/690, G-S=-798/1220, G-O=-1104/584, H-O=-3890/3747, H-J=-2804/2891

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) All plates are MT20 plates unless otherwise indicated.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) P, K, R except (jt=lb) B=683, T=1390, O=3168, J=2861.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

Continued on page 2

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

NOTES-

13) This truss has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 18-5-8 to 30-11-8 for 594.4 plf.

14) No notches allowed in overhang and 10408 from left end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	A2	Common	28	1	U1488907
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:45:14 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

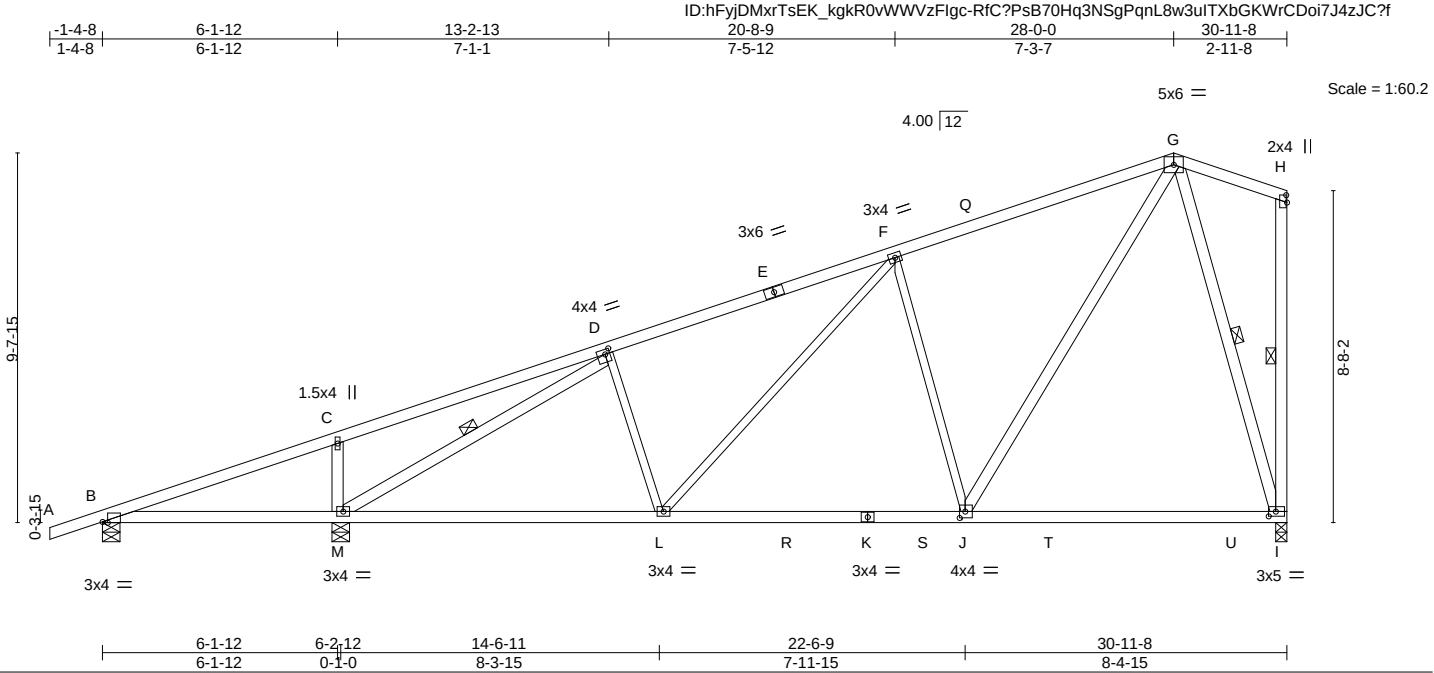


Plate Offsets (X,Y)-- [B:0-1-10,Edge], [D:0-1-8,0-1-8], [H:0-2-5,0-0-4], [I:0-2-4,0-1-8], [J:0-1-12,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.23	I-J	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.37	I-J	>800	240		
TCDL	12.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.04	I	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.04	J-L	>999	240	Weight: 134 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
D-L,F-L,F-J: 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: B-M.
WEBS 1 Row at midpt D-M, H-I, G-I

REACTIONS. (size) B=0-5-8, M=0-5-8, I=0-3-8
Max Horz B=276(LC 9)
Max Uplift B=-48(LC 6), M=-200(LC 10), I=-135(LC 6)
Max Grav B=300(LC 1), M=1668(LC 3), I=1254(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD D-F=-1523/194, F-G=-1101/187
BOT CHORD L-M=-179/1377, J-L=-126/1136, I-J=-87/337
WEBS C-M=-513/167, D-M=-1746/193, F-L=-48/388, F-J=-782/218, G-J=-150/1234, G-I=-1135/137

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B except (jt=lb) M=200, I=135.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	A3	Common	49	1	U1488908
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:45:16 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

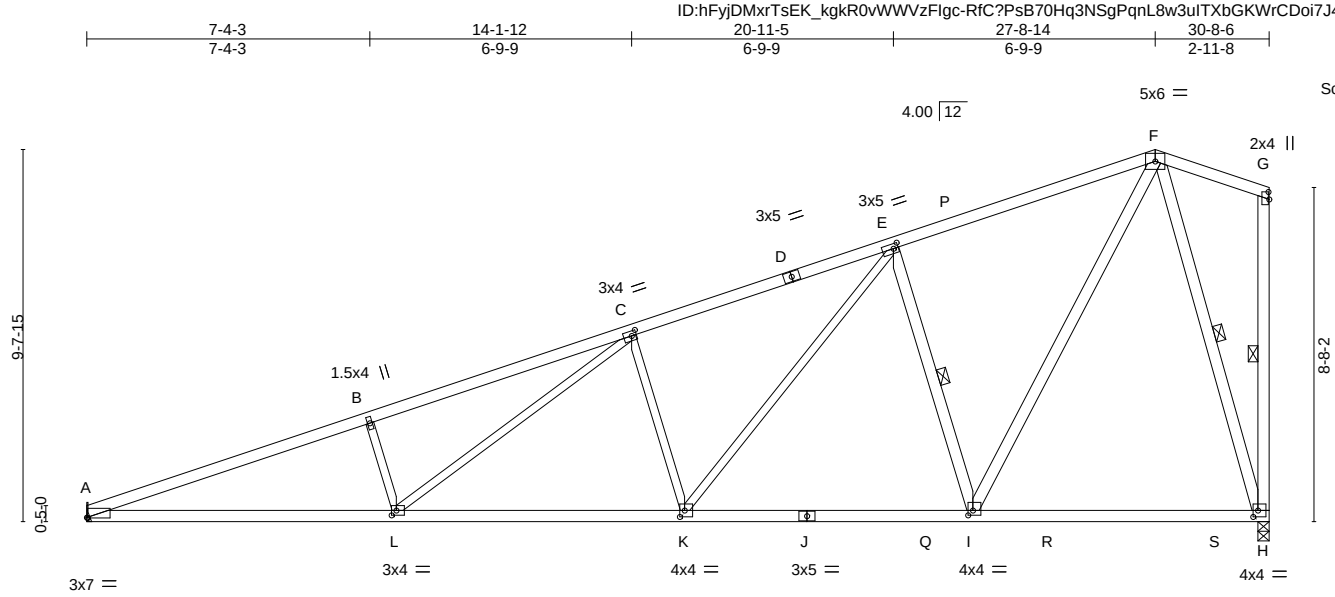


Plate Offsets (X,Y)-- [A:0-0-4,0-0-2], [C:0-1-8,0-1-8], [E:0-1-8,0-1-8], [G:0-2-5,0-0-4], [H:0-1-8,0-2-0], [I:0-1-8,0-1-8], [K:0-1-8,0-2-0], [L:0-1-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.23	K-L	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.42	K-L	>866	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.08	H	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.12	K-L	>999	240	Weight: 131 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
A-J: 2x4 SPF 2100F 1.8E
WEBS 2x4 SPF No.2 *Except*
B-L,C-L,C-K,E-K: 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt E-I, G-H, F-H

REACTIONS. (size) A=Mechanical, H=0-3-8
Max Horz A=267(LC 9)
Max Uplift A=-160(LC 6), H=-174(LC 6)
Max Grav A=1510(LC 3), H=1568(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-3666/396, B-C=-3552/421, C-E=-2448/316, E-F=-1332/215
BOT CHORD A-L=-460/3419, K-L=-303/2468, I-K=-151/1509, H-I=-88/433
WEBS B-L=-491/167, C-L=-141/1068, C-K=-815/207, E-K=-156/1253, E-I=-1223/264, F-I=-201/1661, F-H=-1472/172

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=160, H=174.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	A4	Common	42	1	U1488909
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:45:17 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

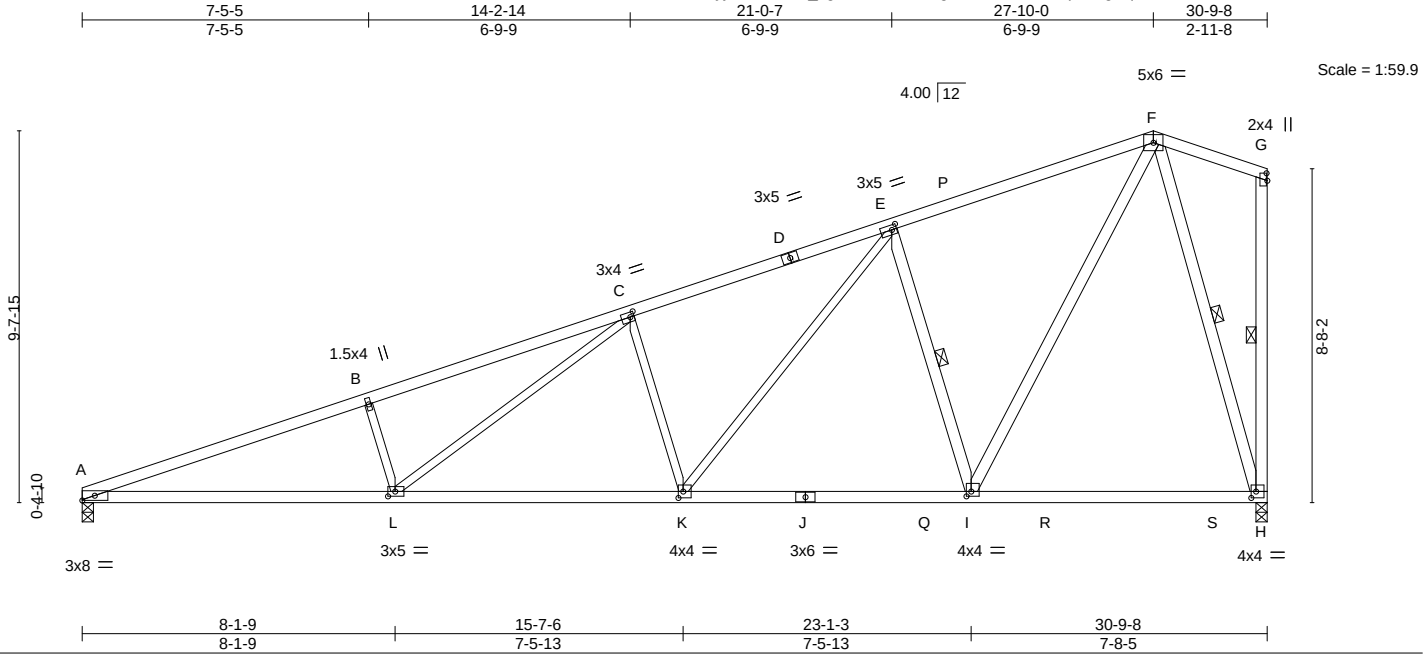


Plate Offsets (X,Y)-- [C:0-1-4,0-1-8], [E:0-1-8,0-1-8], [G:0-2-5,0-0-4], [H:0-1-8,0-2-0], [I:0-1-8,0-1-8], [K:0-1-8,0-2-0], [L:0-2-4,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.23	K-L	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.42	K-L	>873	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.08	H	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.12	L	>999	240		
BCDL	10.0										Weight: 131 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
A-J: 2x4 SPF 2100F 1.8E
WEBS 2x4 SPF No.2 *Except*
B-L,C-L,C-K,E-K: 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt E-I, G-H, F-H

REACTIONS. (size) A=0-3-8, H=0-3-8
Max Horz A=268(LC 9)
Max Uplift A=-161(LC 6), H=-175(LC 6)
Max Grav A=1514(LC 3), H=1572(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-3719/402, B-C=-3606/427, C-E=-2460/317, E-F=-1337/216
BOT CHORD A-L=-465/3472, K-L=-305/2483, I-K=-152/1515, H-I=-88/434
WEBS B-L=-503/168, C-L=-146/1113, C-K=-826/208, E-K=-157/1262, E-I=-1229/265, F-I=-201/1669, F-H=-1477/172

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=161, H=175.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	A5	GABLE	7	1	U1488910
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:45:22 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

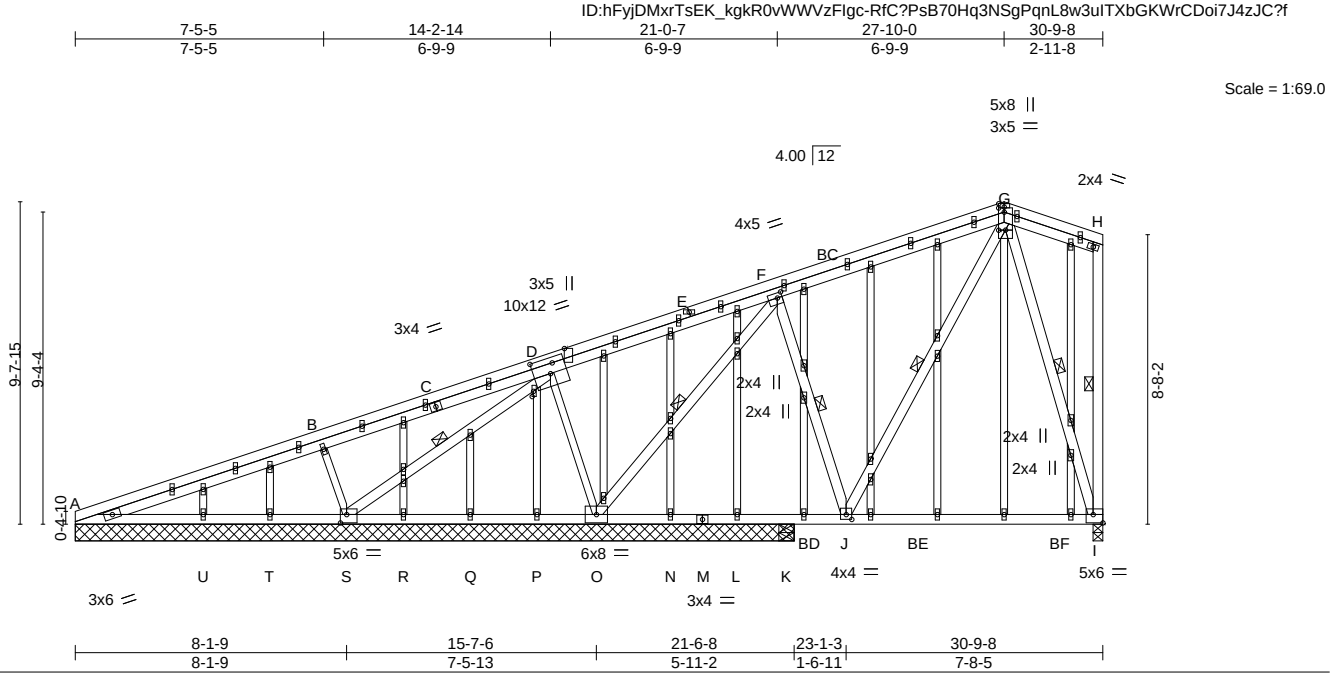


Plate Offsets (X,Y)-- [D:0-6-0,0-5-8], [D:0-1-14,0-0-8], [D:0-5-3,Edge], [F:0-1-12,0-1-12], [G:0-1-8,0-2-0], [G:0-2-8,0-0-1], [G:0-2-0,Edge], [I:Edge,0-3-0], [J:0-2-0,0-1-12], [S:0-2-4,0-3-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	25.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.17	I-J	>679	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.26	I-J	>427	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.86	Horz(CT)	-0.02	N	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.03	I-J	>999	240	Weight: 223 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
B-S,D-O: 2x3 SPF No.2
OTHERS 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-10-7 oc bracing.
WEBS 1 Row at midpt D-S, F-O, F-J, G-J, H-I, G-I

REACTIONS. All bearings 21-6-8 except (jt=length) I=0-3-8, K=0-5-8.
(lb) - Max Horz A=298(LC 38)
Max Uplift All uplift 100 lb or less at joint(s) T, U except S=-1694(LC 31), O=-1065(LC 31), I=-1279(LC 32), A=-840(LC 31), K=-116(LC 18)
Max Grav All reactions 250 lb or less at joint(s) L, N, P, Q, R, T, U, K except S=1772(LC 52), O=1663(LC 28), I=1646(LC 25), A=920(LC 52), A=276(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-2591/2424, B-D=-957/932, D-F=-1614/1540, F-G=-1708/1570, G-H=-750/788
BOT CHORD A-U=-2089/1978, T-U=-1312/1201, S-T=-547/515, R-S=-1794/1683, Q-R=-1210/1101, P-Q=-524/415, O-P=-996/887, N-O=-746/884, L-N=-873/979, K-L=-1381/1447, J-K=-1381/1447, I-J=-450/468
WEBS B-S=-571/218, D-S=-2554/2513, D-O=-933/949, F-O=-2375/2163, F-J=-1136/1263, G-J=-1255/1387, G-I=-1543/1354

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) All plates are 1.5x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) T, U except (jt=lb) S=1694, O=1065, I=1279, A=840, K=116, A=840.
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 has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist Continued on page 2

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

NOTES-

12) No notches allowed in overhang and 0 from left end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	B1	GABLE	7	1	U1488911
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:45:25 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

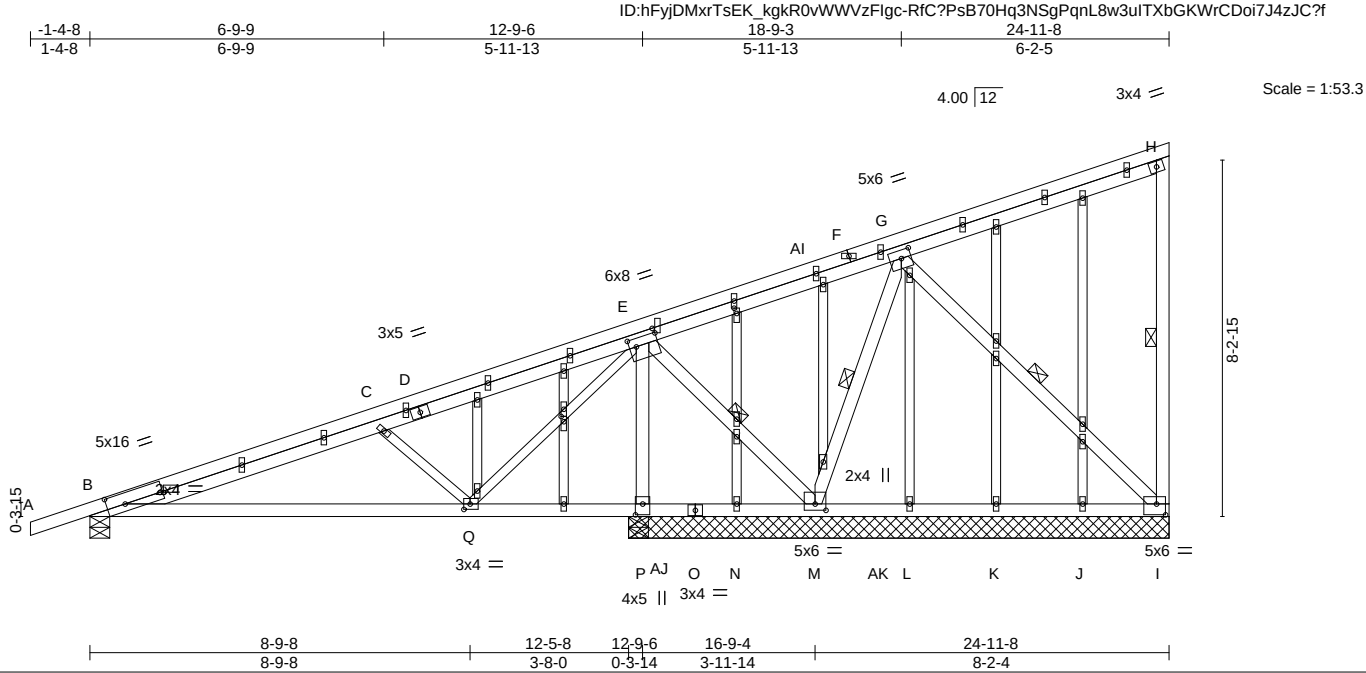


Plate Offsets (X,Y)-- [B:0-5-1,0-3-0], [E:0-1-14,0-2-4], [E:0-1-4,0-0-12], [G:0-2-12,0-2-4], [I:0-2-8,0-3-0], [M:0-3-0,0-1-12], [P:0-3-0,0-2-0], [Q:0-1-12,0-1-8], [Y:0-1-7,0-0-12], [AA:0-1-7,0-0-12], [AG:0-1-0,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.17	Q-AH	>877	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.32	Q-AH	>466	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.91	Horz(CT)	-0.05	J	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.10	Q-AH	>999	240	Weight: 158 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
C-Q,E-Q: 2x3 SPF No.2
OTHERS 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-7-12 oc bracing.
WEBS 1 Row at midpt H-I, E-M, G-M, G-I

REACTIONS. All bearings 12-6-0 except (jt=length) B=0-5-8.
(lb) - Max Horz B=618(LC 35)
Max Uplift All uplift 100 lb or less at joint(s) J, K, L, N except I=-1485(LC 35), B=-750(LC 32), P=-2877(LC 32)
Max Grav All reactions 250 lb or less at joint(s) J, K, L, N except I=1484(LC 52), B=1165(LC 27), P=3277(LC 29), P=1257(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2245/1859, C-E=-1537/1247, E-G=-1020/906, G-H=-1678/1585, H-I=-290/53
BOT CHORD B-Q=-1911/2105, P-Q=-2060/1926, N-P=-1835/1714, M-N=-816/671, L-M=-2542/2482, K-L=-1494/1434, J-K=-629/582, I-J=-1517/1457
WEBS C-Q=-573/193, E-Q=-164/965, E-M=-2921/3050, G-M=-2273/2225, G-I=-2018/2061, E-P=-3216/2858

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) J, K, L, N except (jt=lb) I=1485, B=750, P=2877.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

Continued on page 2

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

NOTES-

12) This truss has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 12-5-8 to 24-11-8 for 479.2 plf.

13) No notches allowed in overhang and 10408 from left end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	B2	Monopitch	28	1	U1488912
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:45:27 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

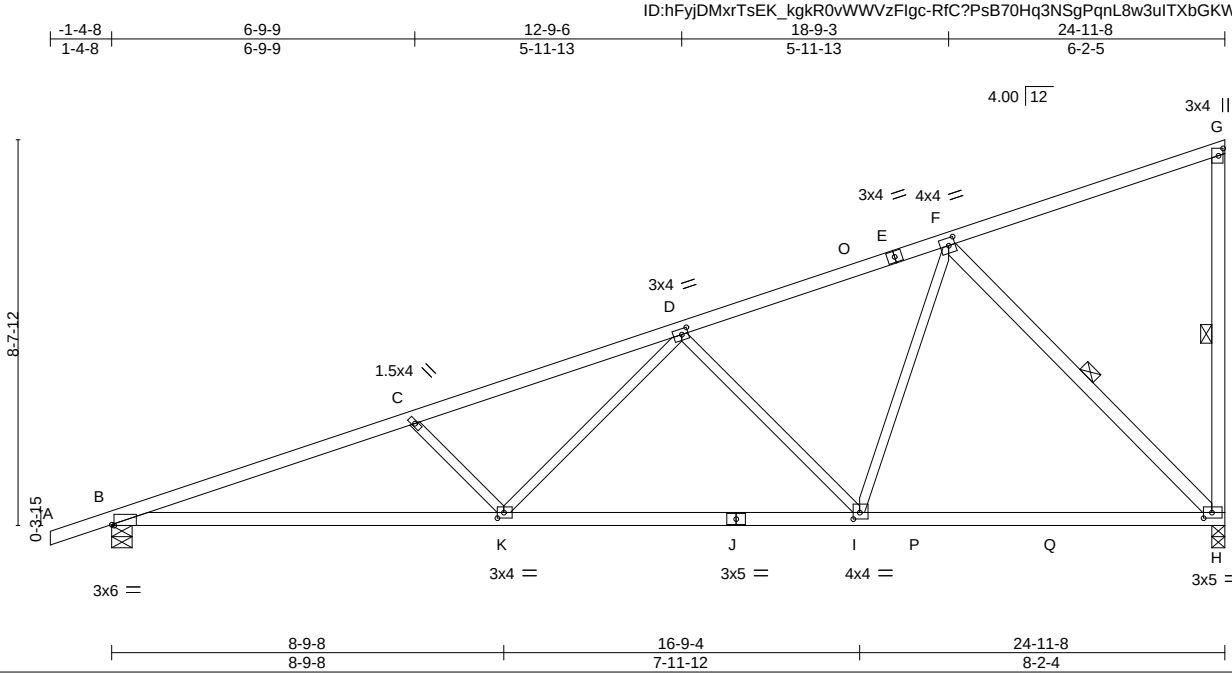


Plate Offsets (X,Y)-- [B:0-0-10,Edge], [D:0-1-12,0-1-8], [F:0-1-12,0-2-0], [G:0-2-0,0-1-4], [H:0-2-4,0-1-8], [I:0-1-12,0-1-12], [K:0-1-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.20	K-N	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.39	K-N	>769	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.06	H	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.09	K-N	>999	240	Weight: 96 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
B-J: 2x4 SPF 2100F 1.8E
WEBS 2x3 SPF No.2 *Except*
G-H,F-H: 2x4 SPF No.2

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

REACTIONS. (size) H=0-3-8, B=0-5-8
Max Horz B=281(LC 9)
Max Uplift H=-167(LC 10), B=-172(LC 6)
Max Grav H=1419(LC 3), B=1331(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2955/311, C-D=-2666/260, D-F=-1455/158, G-H=-283/51
BOT CHORD B-K=-378/2775, I-K=-232/1883, H-I=-103/1036
WEBS C-K=-516/161, D-K=-53/861, D-I=-849/185, F-I=-56/980, F-H=-1470/216

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) H=167, B=172.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

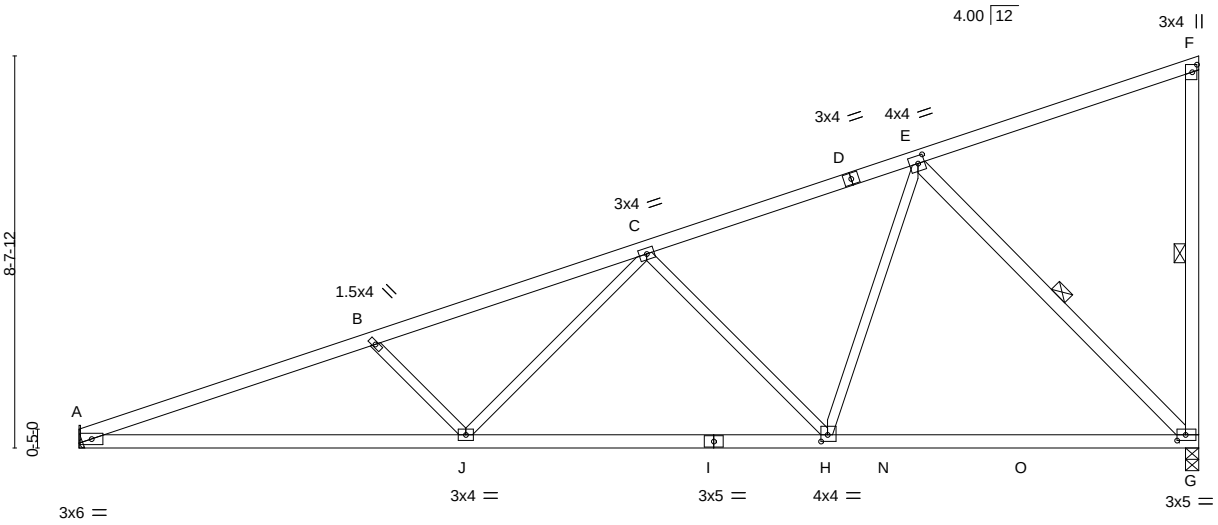
PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	B3	Roof Special	91	1	U1488913
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:45:28 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

6-6-7	12-6-4	18-6-1	24-8-6
6-6-7	5-11-13	5-11-13	6-2-5

Scale = 1:50.8



8-8-6	16-6-2	24-8-6
8-8-6	7-11-12	8-2-4

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.20	G-H	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.34	G-H	>873	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.07	G	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.07	J-M	>999	240	Weight: 93 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
F-G,E-G: 2x4 SPF No.2

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

REACTIONS. (size) G=0-3-8, A=Mechanical
Max Horz A=272(LC 9)
Max Uplift G=-167(LC 10), A=-125(LC 6)
Max Grav G=1390(LC 3), A=1225(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-2853/311, B-C=-2565/261, C-E=-1422/157, F-G=-281/51
BOT CHORD A-J=-373/2660, H-J=-231/1832, G-H=-104/1009
WEBS B-J=-488/159, C-J=-50/798, C-H=-827/184, E-H=-56/967, E-G=-1429/215

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) G=167, A=125.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	B4	GABLE	7	1	U1488914
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:45:31 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

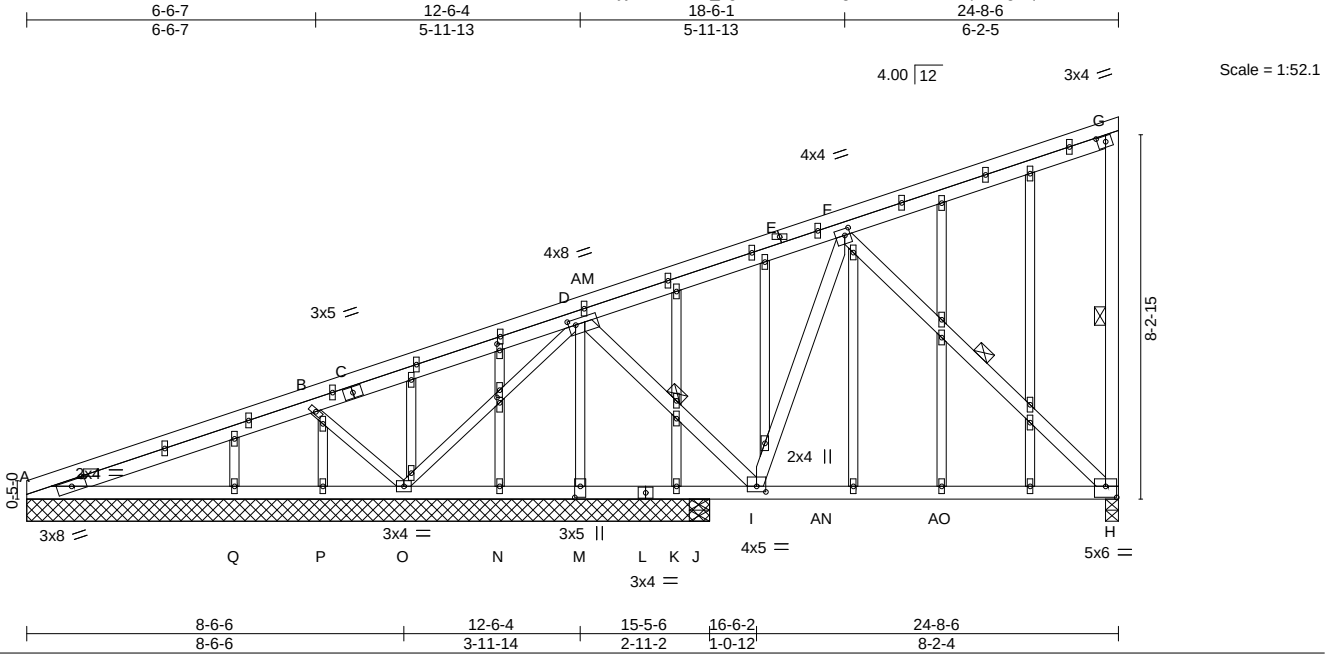


Plate Offsets (X,Y)-- [D:0-1-15,0-1-8], [F:0-1-8,0-1-12], [G:0-2-4,0-1-8], [H:0-3-0,0-3-0], [I:0-2-8,0-1-8], [M:0-3-0,0-1-8], [AD:0-1-7,0-0-12], [AE:0-1-12,0-0-12], [AK:0-0-12,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.16	H-I	>712	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.27	H-I	>410	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	-0.02	H	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.06	O	>760	240	Weight: 156 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
B-O,D-O,D-M: 2x3 SPF No.2
OTHERS 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-3-2 oc bracing.
WEBS 1 Row at midpt G-H, D-I, F-H

REACTIONS. All bearings 15-5-6 except (jt=length) H=0-3-8, J=0-5-8.
(lb) - Max Horz A=315(LC 38)
Max Uplift All uplift 100 lb or less at joint(s) K except H=-919(LC 40), A=-999(LC 31), N=-320(LC 31), P=-447(LC 31), Q=-222(LC 54), M=-1455(LC 31), J=-315(LC 18)
Max Grav All reactions 250 lb or less at joint(s) K, J except H=1330(LC 27), A=1099(LC 52), N=427(LC 28), P=487(LC 52), Q=350(LC 35), M=2167(LC 28), A=370(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-3149/2947, B-D=-1579/1391, D-F=-1946/1652, F-G=-1687/1587, G-H=-286/52
BOT CHORD A-Q=-2497/2487, P-Q=-1260/1250, O-P=-547/664, N-O=-1003/917, M-N=-1702/1617, K-M=-2580/2491, J-K=-2780/2691, I-J=-2780/2691, H-I=-958/1023
WEBS B-O=-589/250, D-O=-665/772, D-I=-1836/2119, F-I=-1378/1492, F-H=-1410/1308, D-M=-2255/1624

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) All plates are 1.5x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) K except (jt=lb) H=919, A=999, N=320, P=447, Q=222, M=1455, J=315, A=999.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

Continued on page 2

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

NOTES-

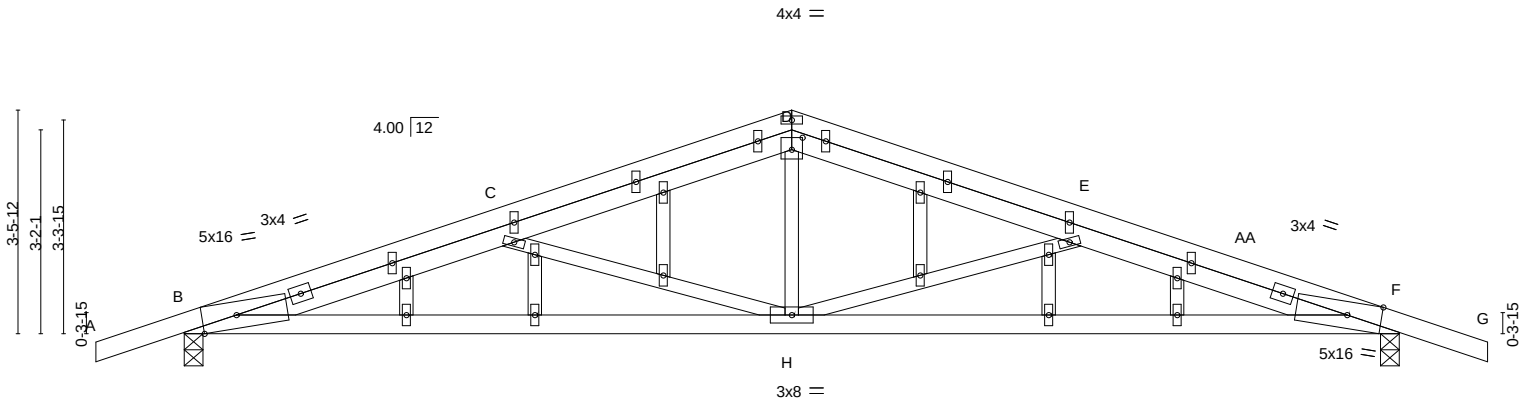
11) This truss has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 15-5-6 for 383.7 plf.
12) No notches allowed in overhang and 0 from left end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	C1	GABLE	15	1	U1488915
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:45:33 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-1-4-8	5-1-10	9-5-8	13-9-6	18-11-0	20-3-8
1-4-8	5-1-10	4-3-14	4-3-14	5-1-10	1-4-8

Scale = 1:35.9



9-5-8	18-11-0
9-5-8	9-5-8

Plate Offsets (X,Y)-- [B:0-6-7,Edge], [D:0-2-0,0-2-4], [F:0-6-7,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.14	H-Z	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.33	H-W	>684	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.06	F	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.06	H-W	>999	240	Weight: 83 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x3 SPF No.2
OTHERS	2x3 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-3-12 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) B=0-3-8, F=0-3-8
Max Horz B=54(LC 10)
Max Uplift B=-169(LC 6), F=-137(LC 7)
Max Grav B=1105(LC 17), F=1057(LC 18)

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

TOP CHORD	B-C=-2401/253, C-D=-1609/111, D-E=-1608/113, E-F=-2535/243
BOT CHORD	B-H=-234/2275, F-H=-184/2396
WEBS	D-H=0/675, E-H=-1018/188, C-H=-932/197

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) except (jt=lb) B=169, F=137.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) No notches allowed in overhang and 10408 from left end and 10408 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	D1	GABLE	7	1	U1488916
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:45:34 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-1-4-8 | 6-5-8 | 12-11-0 | 14-3-8
1-4-8 | 6-5-8 | 6-5-8 | 1-4-8

Scale = 1:25.9

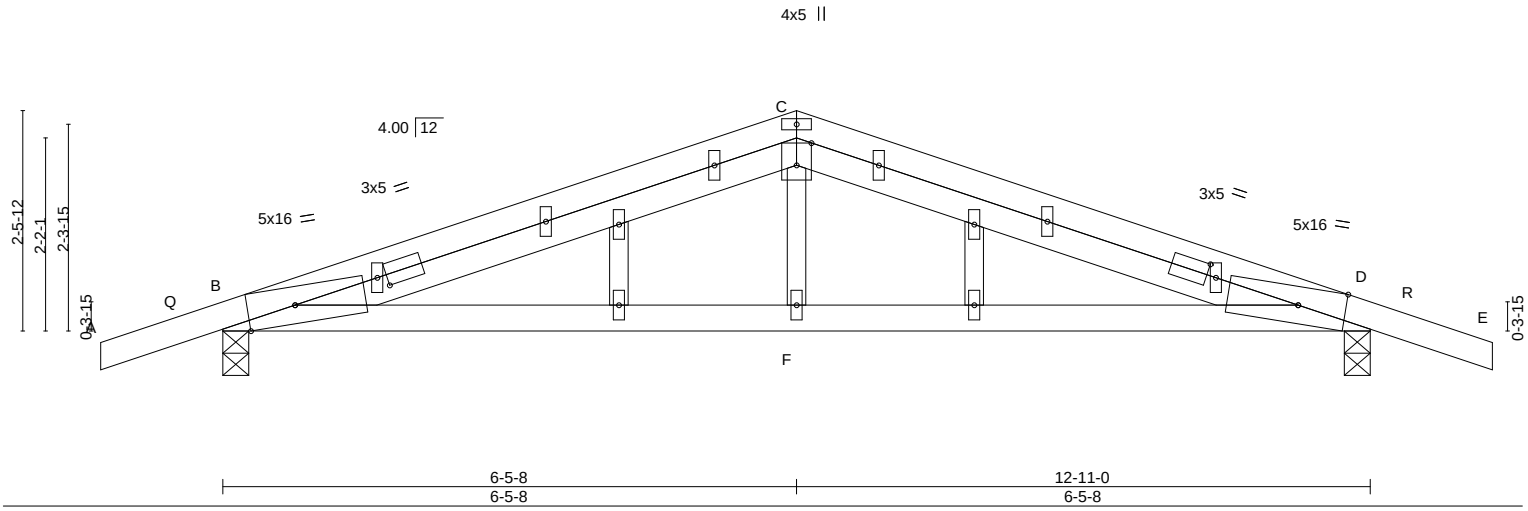


Plate Offsets (X,Y)-- [B:0-6-7,Edge], [B:1-1-0,0-1-8], [C:0-3-0,Edge], [D:1-1-0,0-1-8], [D:0-6-7,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.11	F-M	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.18	F-M	>864	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.02	D	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.04	F-M	>999	240	Weight: 50 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x3 SPF No.2
OTHERS	2x3 SPF No.2

BRACING-

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

REACTIONS. (size) B=0-3-8, D=0-3-8
Max Horz B=41(LC 10)
Max Uplift B=-141(LC 6), D=-110(LC 7)
Max Grav B=974(LC 17), D=822(LC 18)

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

TOP CHORD	B-C=-1260/86, C-D=-1230/91
BOT CHORD	B-F=-53/1118, D-F=-53/1118
WEBS	C-F=0/288

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) except (jt=lb) B=141, D=110.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) No notches allowed in overhang and 10408 from left end and 10408 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	G1	GABLE	22	1	U1488917
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:45:36 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

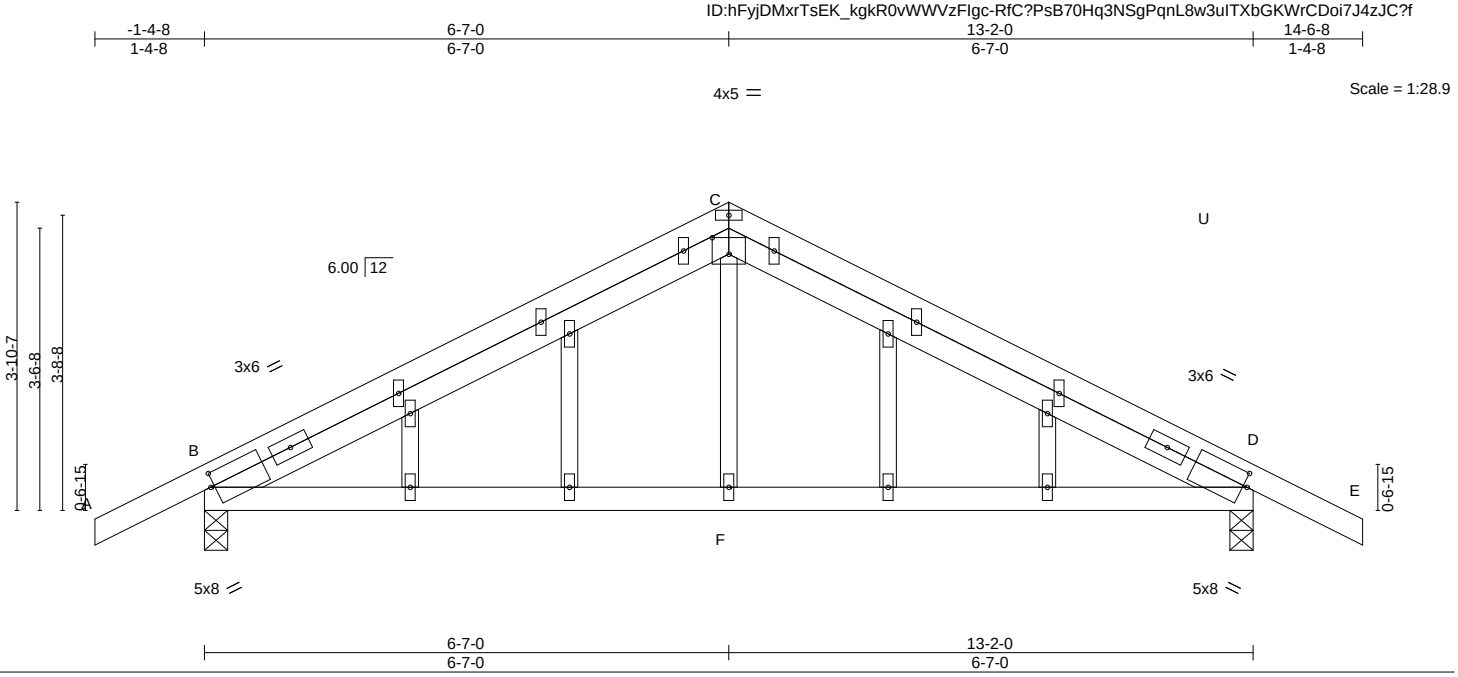


Plate Offsets (X,Y)-- [B:0-0-9,0-2-1], [C:0-2-8,0-2-8], [D:0-0-9,0-2-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.07	F-T	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.10	F-T	>999	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	B	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.03	F-Q	>999	240	Weight: 59 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2
OTHERS 2x3 SPF No.2

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

REACTIONS. (size) B=0-3-8, D=0-3-8
Max Horz B=52(LC 10)
Max Uplift B=-90(LC 10), D=-78(LC 11)
Max Grav B=760(LC 1), D=817(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-815/65, C-D=-877/66
BOT CHORD B-F=-15/662, D-F=-15/662
WEBS C-F=0/265

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) B, D.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) No notches allowed in overhang and 10408 from left end and 10408 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

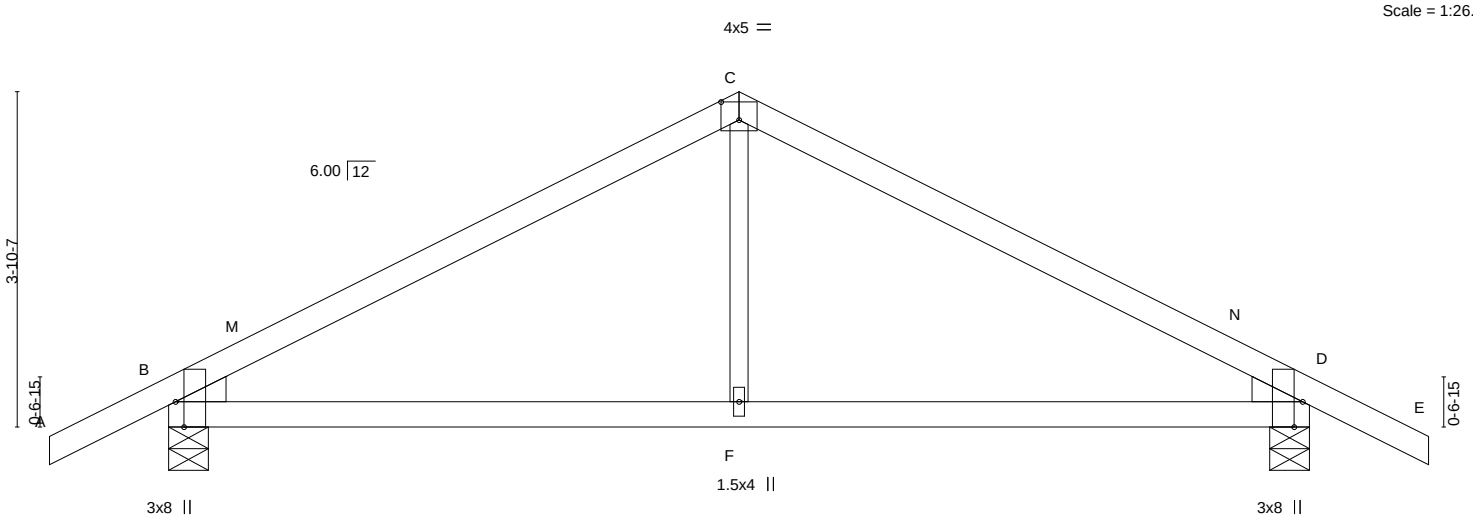
PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	G2	Common	14	1	U1488918
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:45:37 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-1-4-8 / 1-4-8 | 6-7-0 / 6-7-0 | 13-2-0 / 6-7-0 | 14-6-8 / 1-4-8

Scale = 1:26.6



6-7-0 / 6-7-0 | 13-2-0 / 6-7-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.11	F-I	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.15	F-I	>999	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.02	B	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.04	F-I	>999	240	Weight: 40 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2
WEDGE
Left: 2x4 SPF No.2 , Right: 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) B=0-5-8, D=0-5-8
Max Horz B=-52(LC 15)
Max Uplift B=-75(LC 10), D=-75(LC 11)
Max Grav B=817(LC 17), D=817(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-870/71, C-D=-870/71
BOT CHORD B-F=-14/647, D-F=-14/647
WEBS C-F=0/289

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 25.0 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) B, D.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	H1	GABLE	7	1	U1488919
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:45:40 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

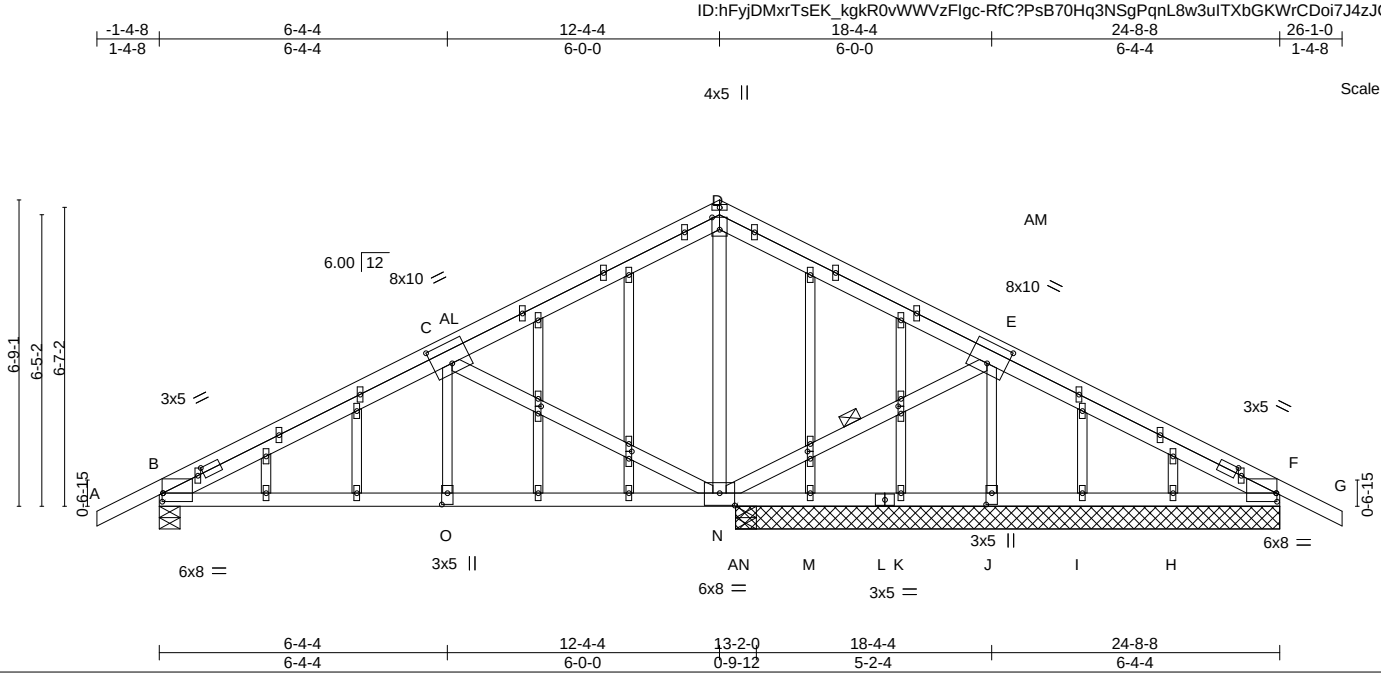


Plate Offsets (X,Y)-- [B:0-0-3,0-2-4], [B:0-11-15,0-1-8], [C:0-5-0,0-5-8], [D:0-3-4,0-2-0], [E:0-5-0,0-5-8], [F:0-11-15,0-1-8], [F:0-0-3,0-2-4], [J:0-3-0,0-1-8], [N:0-4-0,0-3-4], [O:0-3-0,0-1-8], [P:0-1-15,0-0-12], [S:0-1-15,0-0-12], [AA:0-1-15,0-0-12], [AC:0-1-15,0-0-12]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	25.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.08	N-O	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.09	O-AH	>999	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.04	J	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.11	O-AH	>999	240	Weight: 139 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF 2100F 1.8E *Except*
B-D,D-F: 2x4 SPF No.2
BOT CHORD 2x4 SPF 2100F 1.8E
WEBS 2x4 SPF No.2 *Except*
E-J,C-O: 2x3 SPF No.2
OTHERS 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-11-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-4-1 oc bracing.
WEBS 1 Row at midpt E-N

REACTIONS. All bearings 12-0-0 except (jt=length) B=0-5-8.
(lb) - Max Horz B=153(LC 49)
Max Uplift All uplift 100 lb or less at joint(s) M except B=-957(LC 40), N=-1988(LC 40), J=-1528(LC 43), I=-111(LC 55), H=-469(LC 42), F=-1647(LC 43)
Max Grav All reactions 250 lb or less at joint(s) M, K, I except B=1208(LC 29), N=2470(LC 29), N=1088(LC 1), J=1567(LC 38), H=533(LC 39), F=1690(LC 52), F=294(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2014/1784, C-D=-1270/1422, D-E=-2878/2936, E-F=-3031/3017
BOT CHORD B-O=-1700/1900, N-O=-1700/1900, M-N=-3202/3239, K-M=-2389/2423, J-K=-1401/1438, I-J=-560/597, H-I=-1549/1585, F-H=-2350/2387
WEBS D-N=-1405/1227, E-N=-1655/1672, E-J=-1556/1573, C-N=-858/367, C-O=-77/261

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) M except (jt=lb) B=957, N=1988, J=1528, I=111, H=469, F=1647, F=1647.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI

Continued on page 2

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

NOTES-

12) This truss has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 12-8-8 to 24-8-8 for 494.2 plf.

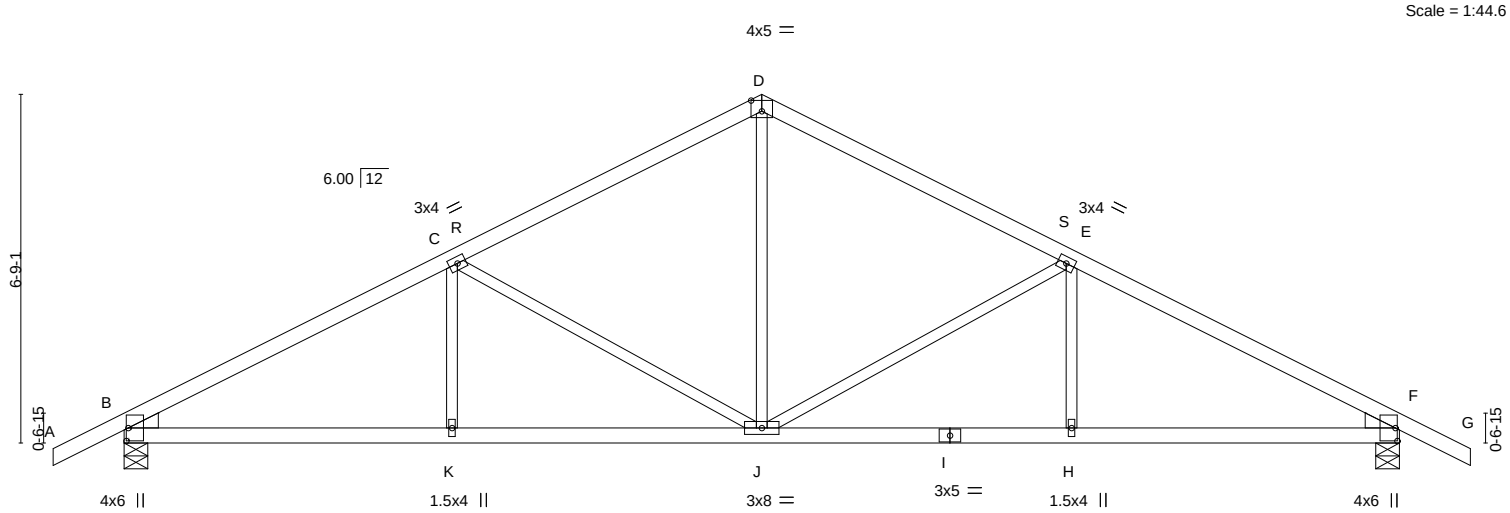
13) No notches allowed in overhang and 10408 from left end and 10408 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	H2	Common	7	1	U1488920
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:45:42 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-1-4-8 | 6-4-4 | 12-4-4 | 18-4-4 | 24-8-8 | 26-1-0
1-4-8 | 6-4-4 | 6-0-0 | 6-0-0 | 6-4-4 | 1-4-8

Scale = 1:44.6



6-4-4 | 12-4-4 | 18-4-4 | 24-8-8
6-4-4 | 6-0-0 | 6-0-0 | 6-4-4

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.09	J-K	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.17	J-K	>999	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.06	F	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.04	H-J	>999	240	Weight: 86 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2
WEDGE
Left: 2x4 SPF No.2 , Right: 2x4 SPF No.2

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

REACTIONS. (size) B=0-5-8, F=0-5-8
Max Horz B=-90(LC 11)
Max Uplift B=-119(LC 10), F=-119(LC 11)
Max Grav B=1287(LC 17), F=1287(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1988/155, C-D=-1373/137, D-E=-1373/137, E-F=-1988/155
BOT CHORD B-K=-152/1701, J-K=-152/1701, H-J=-62/1701, F-H=-62/1701
WEBS D-J=-23/716, E-J=-705/149, C-J=-705/149

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 25.0 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except (jt=lb) B=119, F=119.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

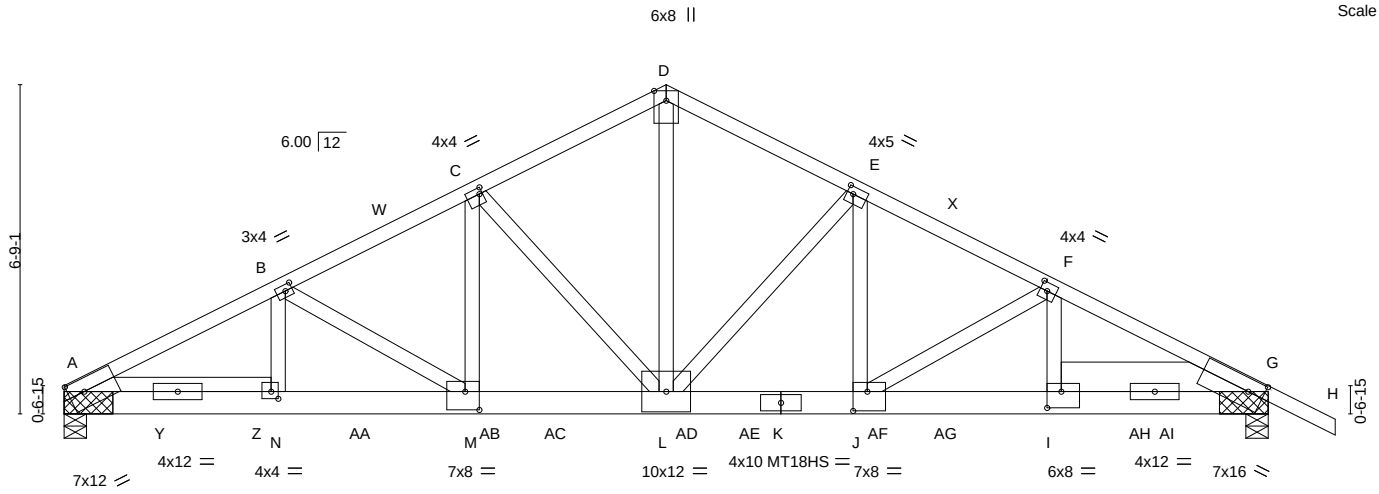
PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	H3	Common Girder	7	2	U1488921
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:45:45 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

4-4-11	8-4-8	12-4-4	16-4-0	20-3-13	24-8-8	26-1-0
4-4-11	3-11-12	3-11-12	3-11-12	3-11-12	4-4-11	1-4-8

Scale = 1:47.3



4-4-11	8-4-8	12-4-4	16-4-0	20-3-13	24-8-8
4-4-11	3-11-12	3-11-12	3-11-12	3-11-12	4-4-11

Plate Offsets (X,Y)-- [A:0-3-13,0-3-2], [B:0-1-12,0-1-8], [C:0-0-12,0-1-8], [E:0-1-8,0-1-12], [F:0-1-12,0-2-0], [G:0-3-13,0-3-2], [I:0-3-8,0-4-0], [J:0-3-8,0-4-12], [M:0-3-8,0-4-8], [N:0-1-12,0-1-12]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	25.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.21	L-M	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.39	L-M	>753	240	MT18HS	220/195
TCDL	12.0	Rep Stress Incr	NO	WB	0.97	Horz(CT)	0.08	G	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.11	L-M	>999	240	Weight: 302 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2 *Except*
D-H: 2x4 SPF 2100F 1.8E
BOT CHORD 2x6 DF 2400F 2.0E
WEBS 2x4 SPF No.2
SLIDER Left 2x4 SPF No.2 3-10-0, Right 2x8 SPF 1950F 1.7E 3-10-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-1-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) A=(0-5-8 + bearing block) , G=(0-5-8 + bearing block)
Max Horz A=-100(LC 15)
Max Uplift A=-865(LC 10), G=-971(LC 11)
Max Grav A=7891(LC 3), G=8683(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-13476/1480, B-C=-11809/1305, C-D=-9158/1041, D-E=-9156/1042, E-F=-11891/1312, F-G=-14169/1551
BOT CHORD A-N=-987/8499, M-N=-1349/11987, L-M=-1139/10537, J-L=-1079/10604, I-J=-1326/12642, G-I=-855/8046
WEBS D-L=-861/7872, E-L=-3721/471, E-J=-381/3627, F-J=-2380/315, F-I=-223/2040, C-L=-3621/460, C-M=-368/3496, B-M=-1695/245, B-N=-156/1470

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-3-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) 2x6 DF 2400F 2.0E bearing block 12" long at jt. A attached to each face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners per block. Bearing is assumed to be SPF No.2.
4) 2x6 DF 2400F 2.0E bearing block 12" long at jt. G attached to each face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners per block. Bearing is assumed to be SPF No.2.
5) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
6) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
7) Unbalanced snow loads have been considered for this design.
8) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
9) All plates are MT20 plates unless otherwise indicated.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

May 22,2023

Continued on page 2

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

NOTES-

11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=865, G=971.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1205 lb down and 145 lb up at 2-0-4, 1205 lb down and 145 lb up at 4-0-4, 1205 lb down and 145 lb up at 6-0-4, 1205 lb down and 145 lb up at 8-0-4, 1205 lb down and 145 lb up at 10-0-4, 1205 lb down and 145 lb up at 12-0-4, 1205 lb down and 145 lb up at 14-0-4, 1205 lb down and 145 lb up at 16-0-4, 1205 lb down and 145 lb up at 18-0-4, 1205 lb down and 145 lb up at 20-0-4, and 1205 lb down and 145 lb up at 22-0-4, and 1205 lb down and 145 lb up at 22-7-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-D=-74, D-H=-74, O-S=-20
   Concentrated Loads (lb)
   Vert: I=-1175(F) Y=-1175(F) Z=-1175(F) AA=-1175(F) AB=-1175(F) AC=-1175(F) AD=-1175(F) AE=-1175(F) AF=-1175(F) AG=-1175(F) AH=-1175(F) AI=-1175(F)

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	K1	GABLE	15	2	U1488922
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:45:47 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

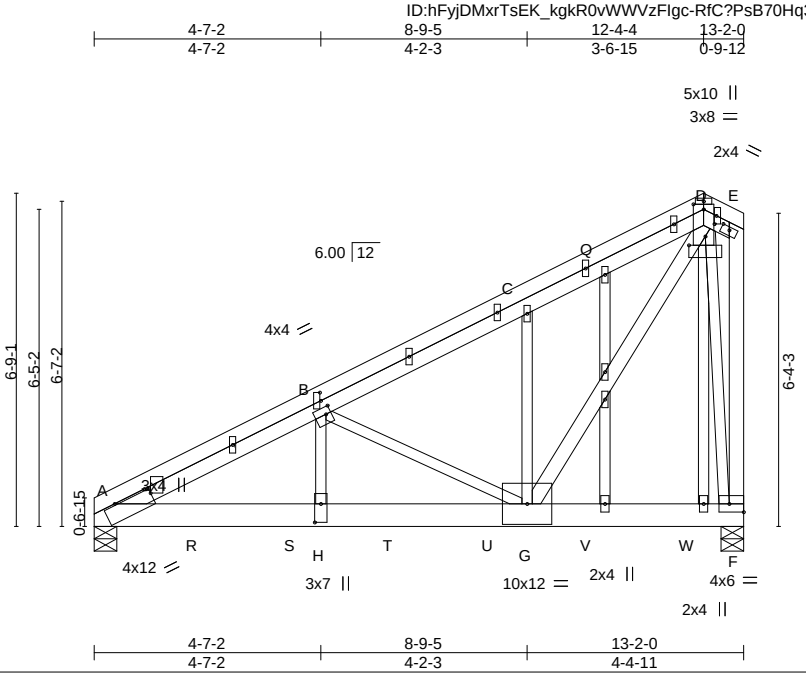


Plate Offsets (X,Y)-- [A:0-9-0,0-0-6], [B:0-1-4,0-1-12], [B:0-2-0,0-0-4], [D:0-1-4,0-2-8], [D:0-2-0,0-0-8], [D:0-4-0,0-2-3], [E:0-2-0,0-0-12], [F:Edge,0-2-0], [H:0-4-8,0-1-8], [O:0-1-0,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	25.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.10	G-H	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.18	G-H	>871	240		
TCDL	12.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.02	F	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.05	G-H	>999	240	Weight: 175 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x6 SPF 2100F 1.8E
WEBS 2x3 SPF No.2 *Except*
D-G,E-F: 2x4 SPF No.2
OTHERS 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) A=0-5-8, F=0-5-8
Max Horz A=176(LC 28)
Max Uplift A=-533(LC 10), F=-631(LC 10)
Max Grav A=4716(LC 3), F=5269(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-7818/880, B-C=-4358/503, C-D=-4377/566, E-F=-329/86
BOT CHORD A-H=-862/7158, G-H=-863/7167, F-G=-99/455
WEBS B-H=-270/2590, B-G=-3718/477, C-G=-331/119, D-G=-834/6673, D-F=-3671/457

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x3 - 1 row at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
4) 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.
5) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
6) Unbalanced snow loads have been considered for this design.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=533, F=631.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

Continued on page 2

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

NOTES-

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1490 lb down and 180 lb up at 2-0-4, 1490 lb down and 180 lb up at 4-0-4, 1490 lb down and 180 lb up at 6-0-4, 1490 lb down and 180 lb up at 8-0-4, and 1490 lb down and 180 lb up at 10-0-4, and 1490 lb down and 180 lb up at 12-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
14) No notches allowed in overhang and 0-0-0 from left end and 0-0-0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.
15) Studding applied to ply: 1(Front)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-D=-74, D-E=-74, F-N=-20
   Concentrated Loads (lb)
   Vert: R=-1433(F) S=-1433(F) T=-1433(F) U=-1433(F) V=-1433(F) W=-1433(F)

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	K2	GABLE	15	1	U1488923
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:45:49 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

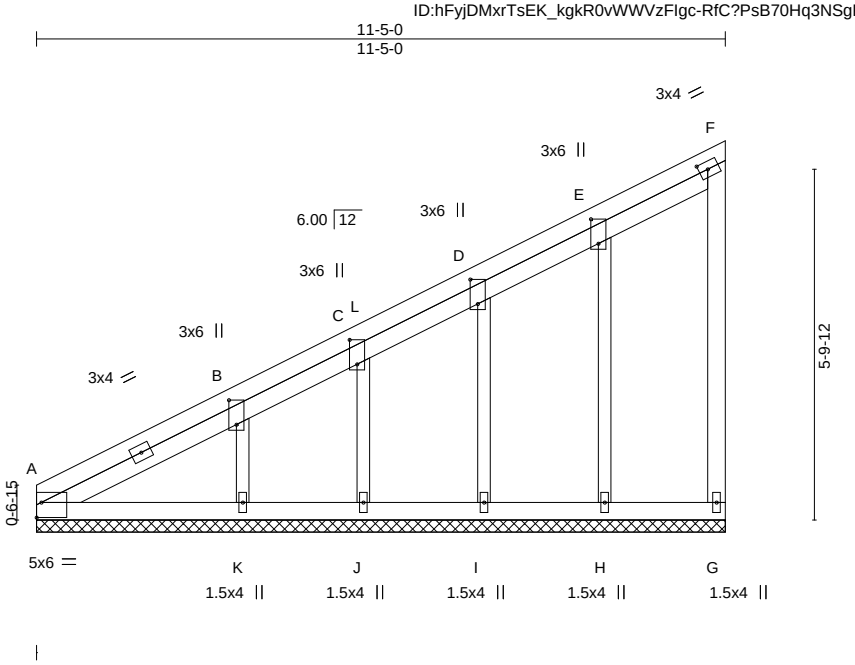


Plate Offsets (X,Y)-- [A:Edge,0-3-0], [B:0-4-14,0-1-8], [C:0-4-14,0-1-8], [D:0-4-14,0-1-8], [E:0-4-14,0-1-8], [F:0-1-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.55	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	-0.03	G	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-S							Weight: 58 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
OTHERS 2x3 SPF No.2

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

REACTIONS. All bearings 11-5-0.
(lb) - Max Horz A=182(LC 34)
Max Uplift All uplift 100 lb or less at joint(s) G, H, I, J except A=-1422(LC 31), K=-123(LC 40)
Max Grav All reactions 250 lb or less at joint(s) G, J except A=1543(LC 38), H=266(LC 16), I=276(LC 16), K=316(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-3211/3055, B-C=-2237/2126, C-D=-1684/1586, D-E=-1141/1075, E-F=-601/558
BOT CHORD A-K=-2761/2747, J-K=-1942/1928, I-J=-1462/1448, H-I=-982/968, G-H=-502/484

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) G, H, I, J except (jt=lb) A=1422, K=123.
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 has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 11-5-0 for 240.0 plf.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	L1	Monopitch Supported Gable	7	1	U1488924
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:45:50 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

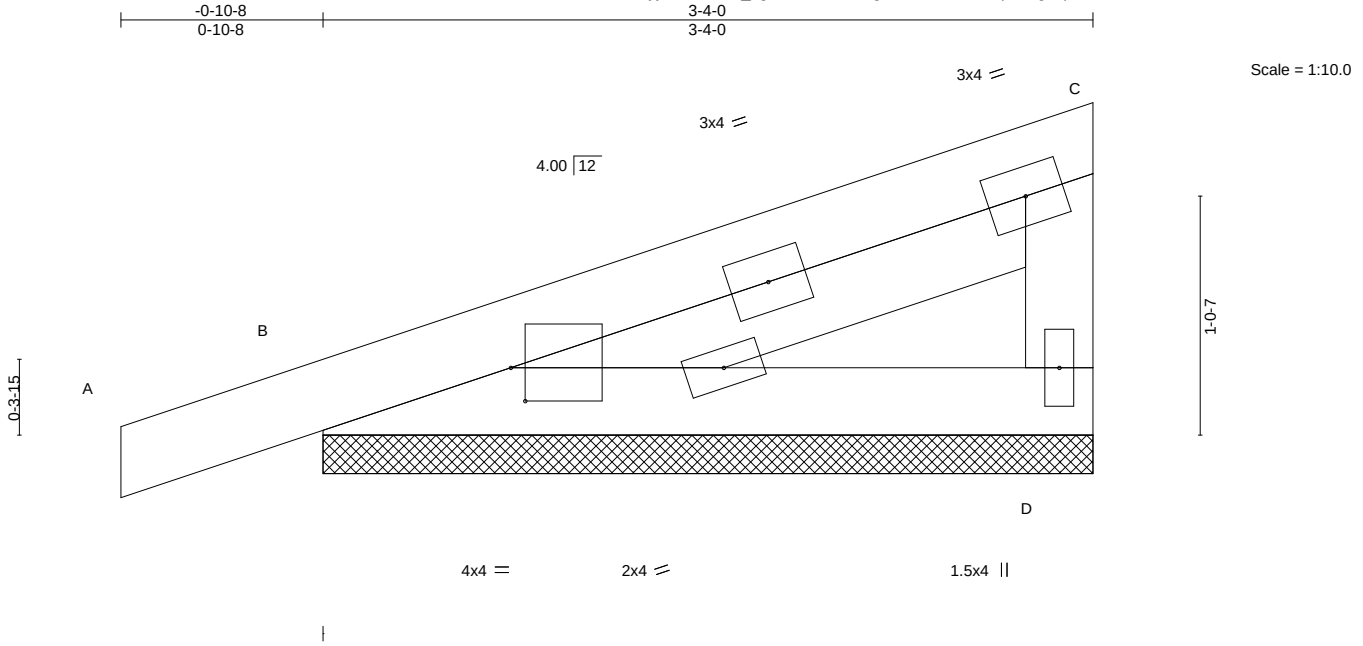


Plate Offsets (X,Y)-- [B:0-0-12,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.00	A	n/r	120	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.10	Vert(CT)	0.00	A	n/r	90		
TCDL	12.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	D	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 13 lb	FT = 20%
BCDL	10.0											

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 3-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) D=3-4-0, B=3-4-0
Max Horz B=40(LC 7)
Max Uplift D=-19(LC 10), B=-48(LC 6)
Max Grav D=183(LC 17), B=297(LC 17)

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

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) D, B.
11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) B.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

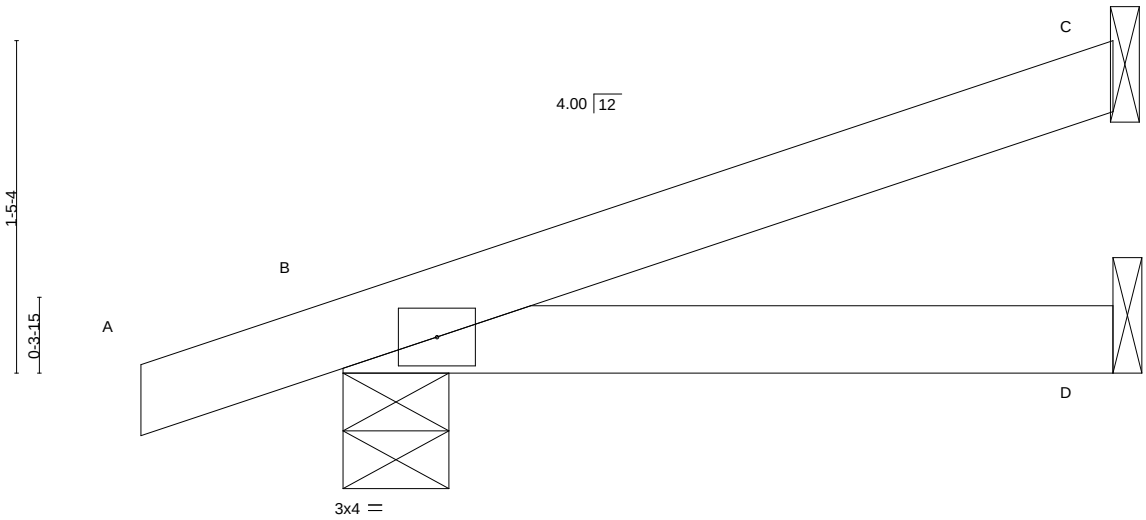
PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	L2	Monopitch	42	1	U1488925
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:45:51 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-10-8 / 0-10-8 — 3-4-0 / 3-4-0

Scale = 1:10.0



3-4-0 / 3-4-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.01	D-G	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.02	D-G	>999	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	B	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MP		Wind(LL)	0.00	D-G	>999	240	Weight: 9 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) C=Mechanical, B=0-5-8, D=Mechanical
Max Horz B=45(LC 6)
Max Uplift C=-28(LC 10), B=-46(LC 6)
Max Grav C=132(LC 17), B=302(LC 17), D=59(LC 5)

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

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C, B.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	L3	Monopitch Supported Gable	9	1	U1488926
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:45:52 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

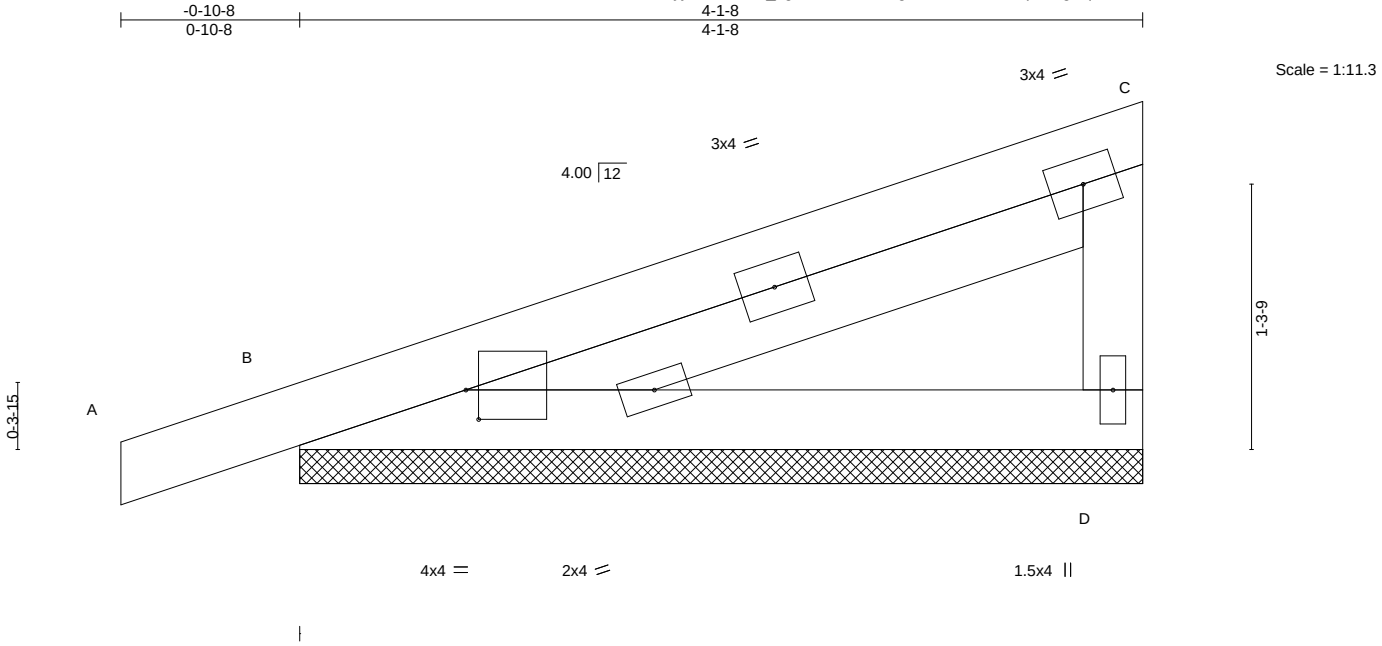


Plate Offsets (X,Y)-- [B:0-0-12,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	-0.00	A	n/r	120	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.16	Vert(CT)	0.00	A	n/r	90		
TCDL	12.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	D	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 16 lb	FT = 20%
BCDL	10.0											

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 4-1-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) D=4-1-8, B=4-1-8
Max Horz B=49(LC 7)
Max Uplift D=-25(LC 10), B=-52(LC 6)
Max Grav D=238(LC 17), B=350(LC 17)

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

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) D, B.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

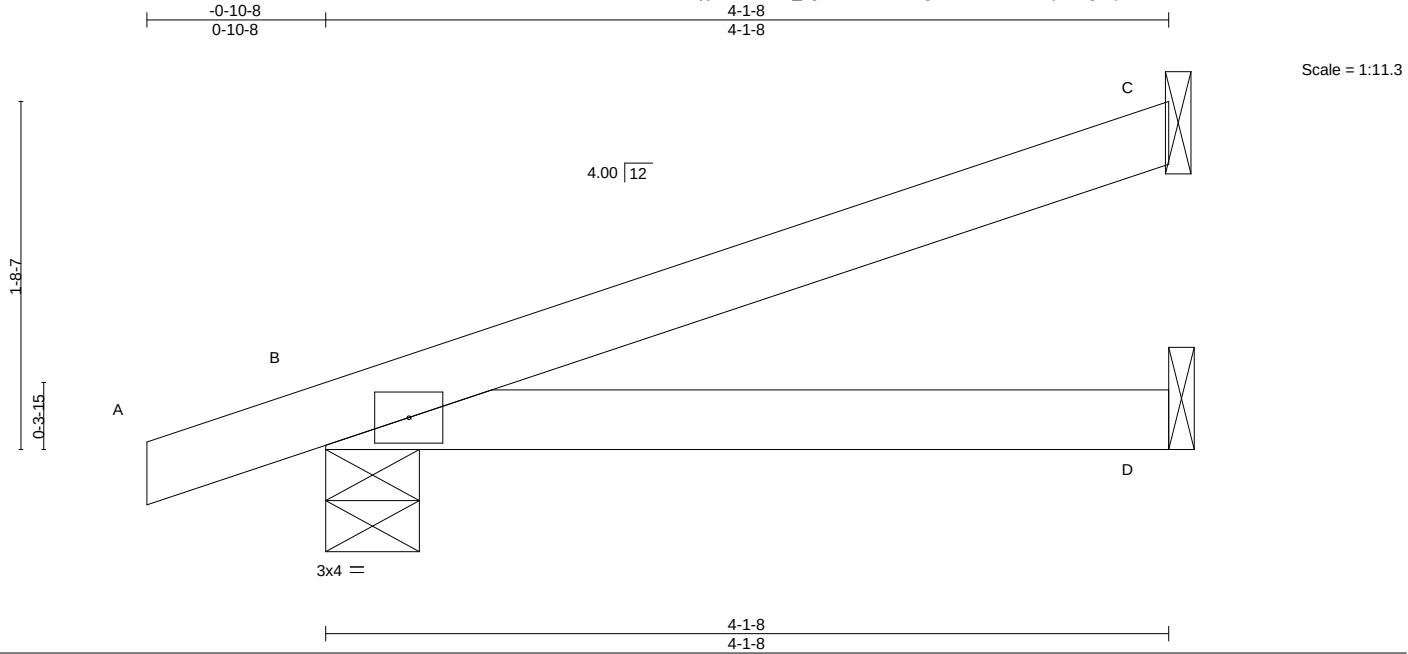
May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	L4	JACK	54	1	U1488927
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:45:53 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.02	D-G	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.04	D-G	>999	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	B	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MP		Wind(LL)	0.01	D-G	>999	240	Weight: 11 lb	FT = 20%
BCDL	10.0											

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) C=Mechanical, B=0-5-8, D=Mechanical
Max Horz B=53(LC 6)
Max Uplift C=-36(LC 10), B=-48(LC 6)
Max Grav C=174(LC 17), B=356(LC 17), D=74(LC 5)

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

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C, B.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

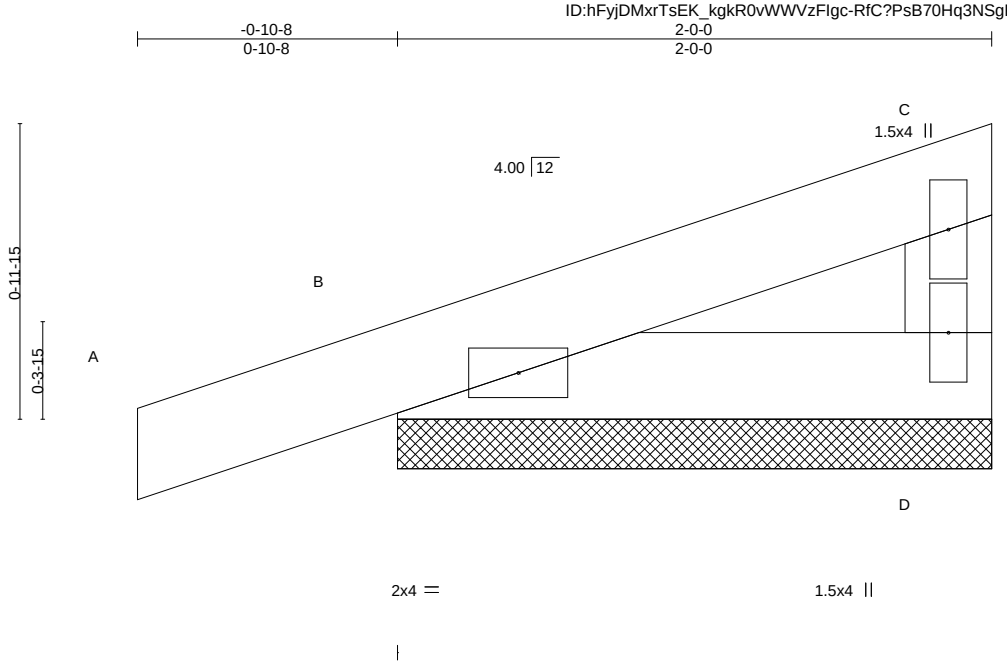
May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	L5	Monopitch Supported Gable	2	1	U1488928
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:45:54 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	0.00	A	n/r	120	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	A	n/r	90		
TCDL	12.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	D	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 6 lb	FT = 20%
BCDL	10.0											

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 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) D=2-0-0, B=2-0-0
Max Horz B=26(LC 7)
Max Uplift D=-9(LC 10), B=-45(LC 6)
Max Grav D=89(LC 17), B=214(LC 17)

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

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) D, B.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	L6	Monopitch	9	1	U1488929
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:45:55 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

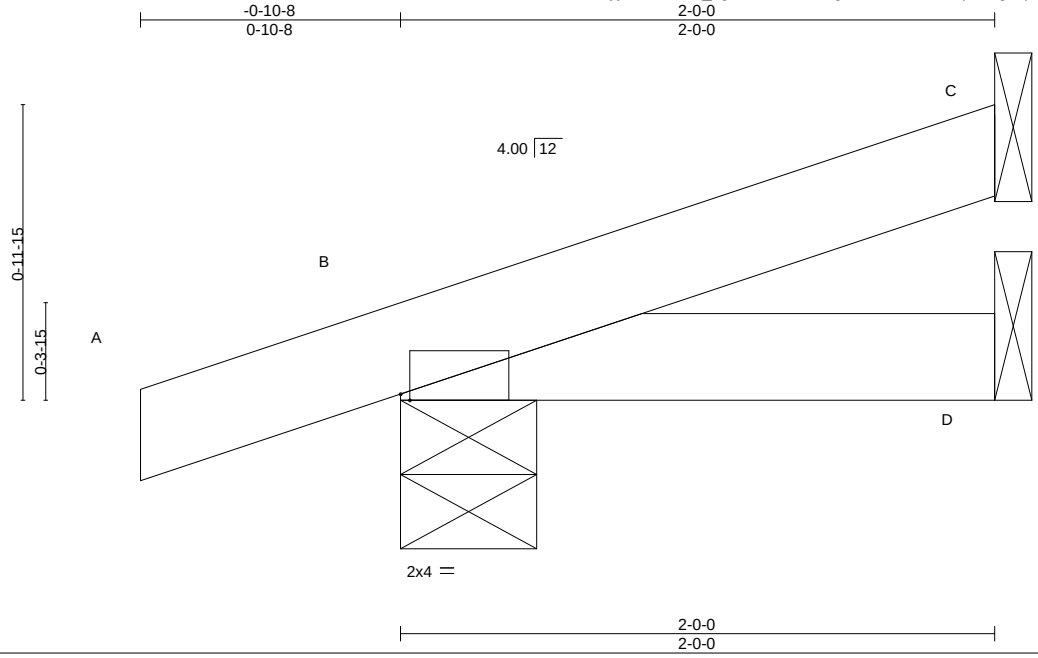


Plate Offsets (X,Y)-- [B:0-0-6,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.00	G	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.01	G	>999	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	B	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MP		Wind(LL)	0.00	G	>999	240	Weight: 6 lb	FT = 20%
BCDL	10.0											

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

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

REACTIONS. (size) B=0-5-8, D=Mechanical
Max Horz B=30(LC 6)
Max Uplift B=-42(LC 6), D=-12(LC 7)
Max Grav B=222(LC 17), D=104(LC 16)

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

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B, D.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	M1	Monopitch	52	1	U1488930
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:45:56 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

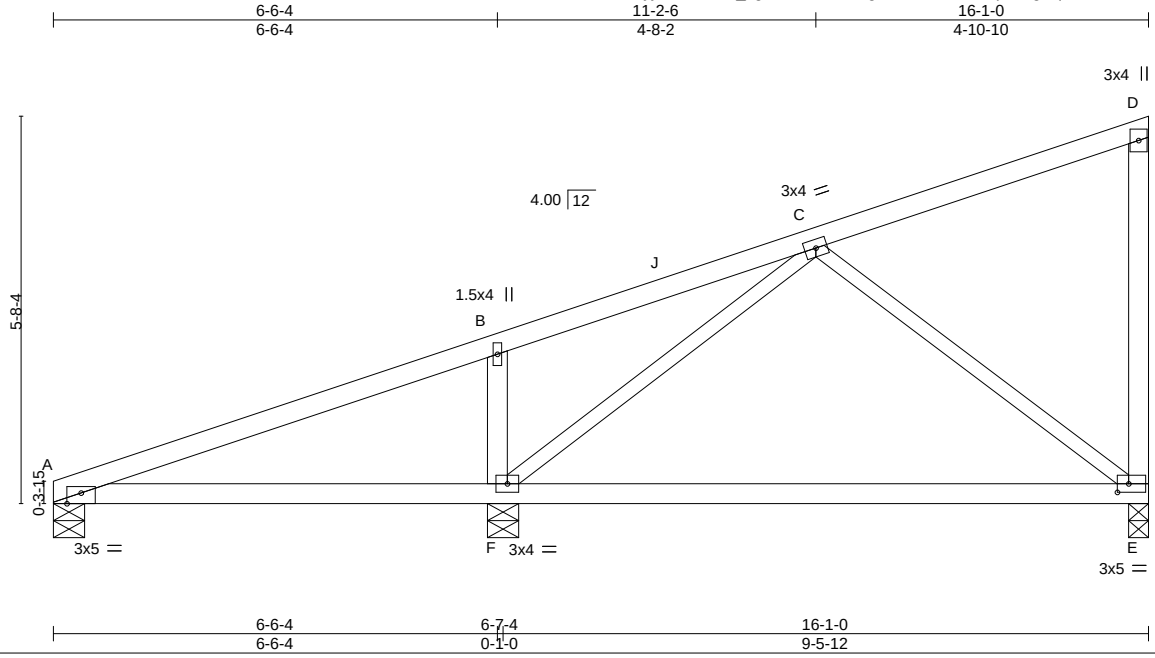


Plate Offsets (X,Y)-- [A:0-2-8,Edge], [E:0-2-0,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.21	E-F	>545	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.40	E-F	>283	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.01	E	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.04	F-I	>999	240	Weight: 55 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
C-F,C-E: 2x3 SPF No.2

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

REACTIONS. (size) A=0-5-8, F=0-5-8, E=0-3-8
Max Horz A=176(LC 9)
Max Uplift A=-27(LC 6), F=-92(LC 6), E=-70(LC 10)
Max Grav A=266(LC 16), F=896(LC 16), E=550(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD E-F=-89/343
WEBS B-F=-447/147, C-F=-345/39, C-E=-411/116

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) A, F, E.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

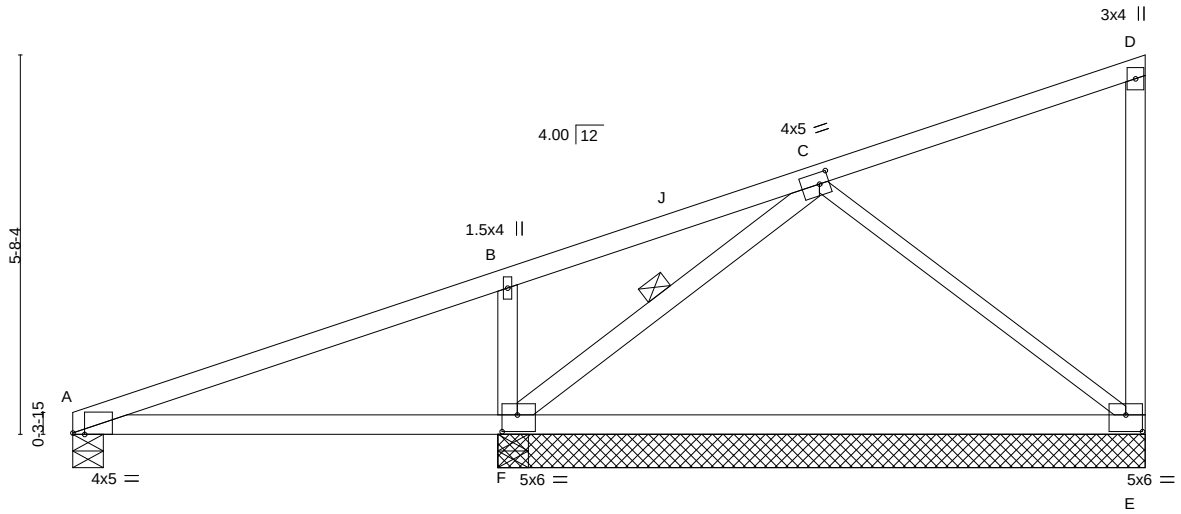
PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	M2	Monopitch	52	1	U1488931
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:45:58 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

6-6-4 | 11-2-6 | 16-1-0
6-6-4 | 4-8-2 | 4-10-10

Scale = 1:34.6



6-6-4 | 6-7-4 | 16-1-0
6-6-4 | 0-1-0 | 9-5-12

Plate Offsets (X,Y)-- [A:0-2-2,Edge], [C:0-1-12,0-2-0], [E:0-3-0,0-3-0], [F:0-2-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.21	E-F	>545	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.40	E-F	>283	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.87	Horz(CT)	-0.04	E	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		Wind(LL)	0.06	F-I	>999	240	Weight: 57 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
C-E: 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt C-F

REACTIONS. All bearings 0-5-8 except (jt=length) E=9-8-8.
(lb) - Max Horz A=257(LC 38)
Max Uplift All uplift 100 lb or less at joint(s) except A=-550(LC 31), F=-1377(LC 31), E=-601(LC 40)
Max Grav All reactions 250 lb or less at joint(s) except A=635(LC 52), F=1747(LC 28), F=836(LC 1), E=852(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1541/1392, B-C=-1250/1232, C-D=-1290/1209
BOT CHORD A-F=-1548/1488, E-F=-3159/3153
WEBS B-F=-446/147, C-F=-2137/2094, C-E=-966/974

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for 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 3-6-0 tall by 2-0-0 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 550 lb uplift at joint A, 1377 lb uplift at joint F and 601 lb uplift at joint E.
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 has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 6-4-8 to 16-1-0 for 397.6 plf.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	M3	Monopitch	52	1	U1488932
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:45:59 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

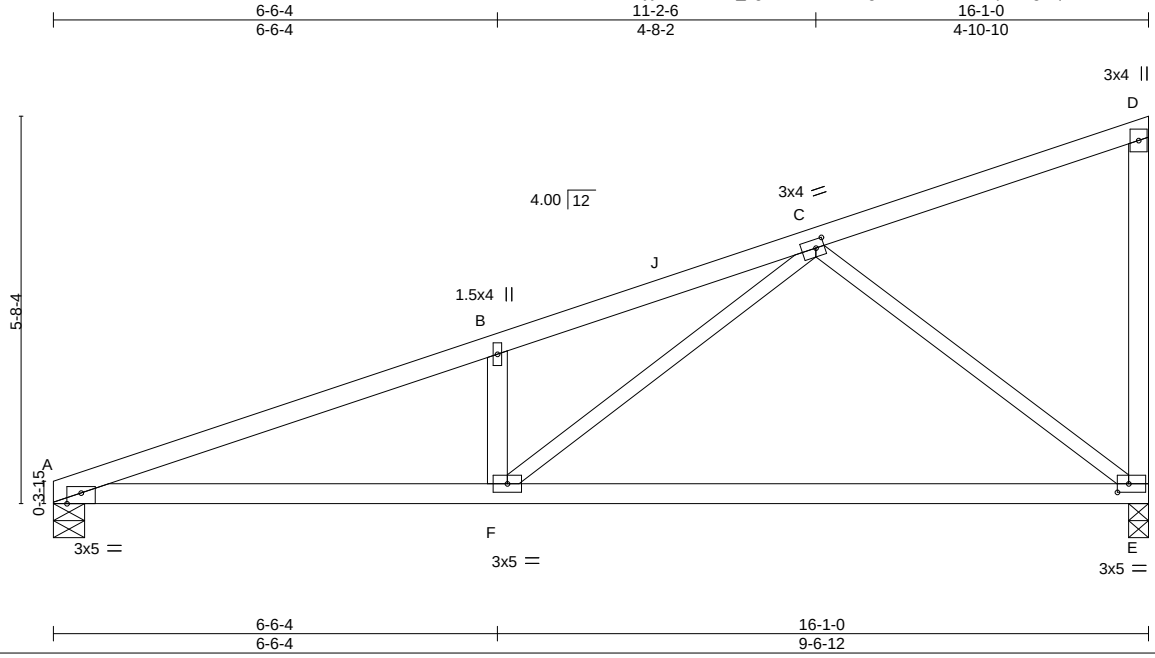


Plate Offsets (X,Y)-- [A:0-2-8,Edge], [C:0-1-8,0-1-8], [E:0-2-0,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.23	E-F	>845	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.46	E-F	>418	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.03	E	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		Wind(LL)	0.06	F-I	>999	240	Weight: 55 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
C-F,C-E: 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) A=0-5-8, E=0-3-8
Max Horz A=176(LC 9)
Max Uplift A=-81(LC 6), E=-108(LC 10)
Max Grav A=795(LC 16), E=916(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1739/147, B-C=-1752/205
BOT CHORD A-F=-176/1607, E-F=-96/806
WEBS B-F=-423/145, C-F=-103/1029, C-E=-1000/176

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for 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 3-6-0 tall by 2-0-0 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 81 lb uplift at joint A and 108 lb uplift at joint E.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	N1	Monopitch Supported Gable	52	1	U1488933
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:46:00 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

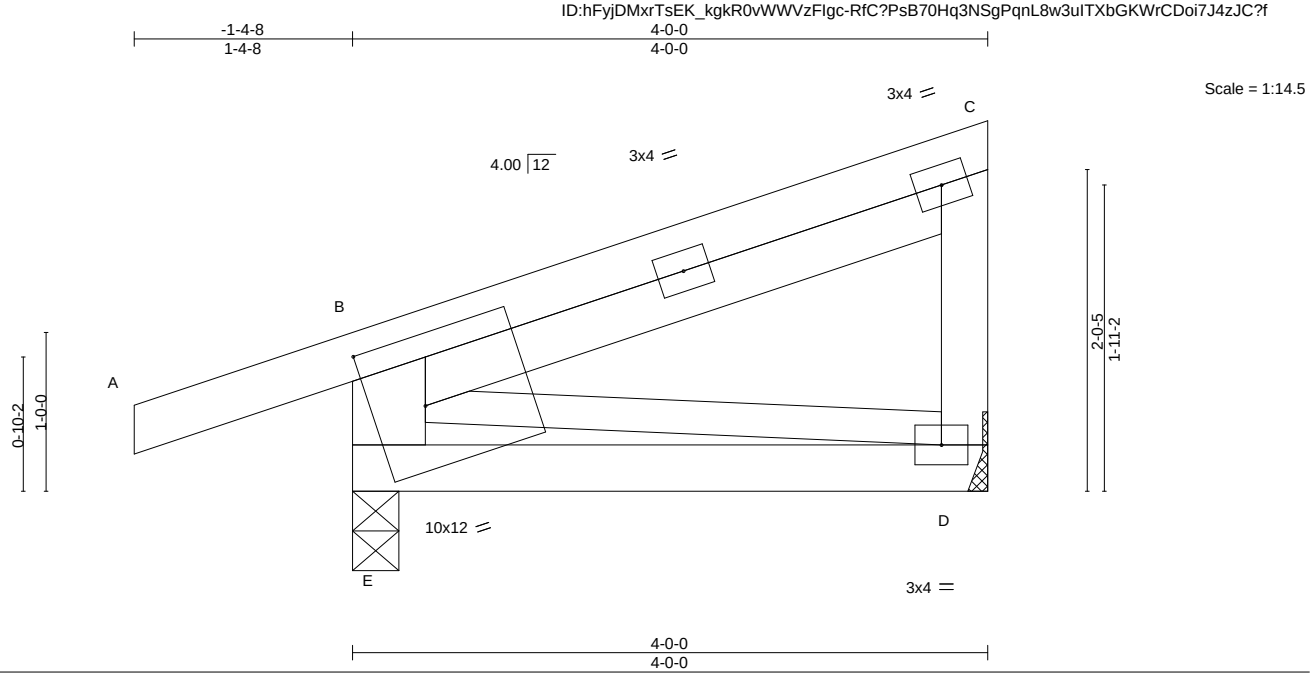


Plate Offsets (X,Y)-- [E:0-4-0,0-5-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.01	D-E	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.02	D-E	>999	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00	D	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MP		Wind(LL)	0.00	E	****	240	Weight: 21 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x6 SPF No.2 *Except*
C-D: 2x4 SPF No.2, B-D: 2x3 SPF No.2

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

REACTIONS. (size) E=0-3-8, D=Mechanical
Max Horz E=69(LC 7)
Max Uplift E=-77(LC 6), D=-23(LC 10)
Max Grav E=433(LC 17), D=190(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-E=-397/95

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint E and 23 lb uplift at joint D.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	N2	Monopitch	130	1	U1488934
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:46:01 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

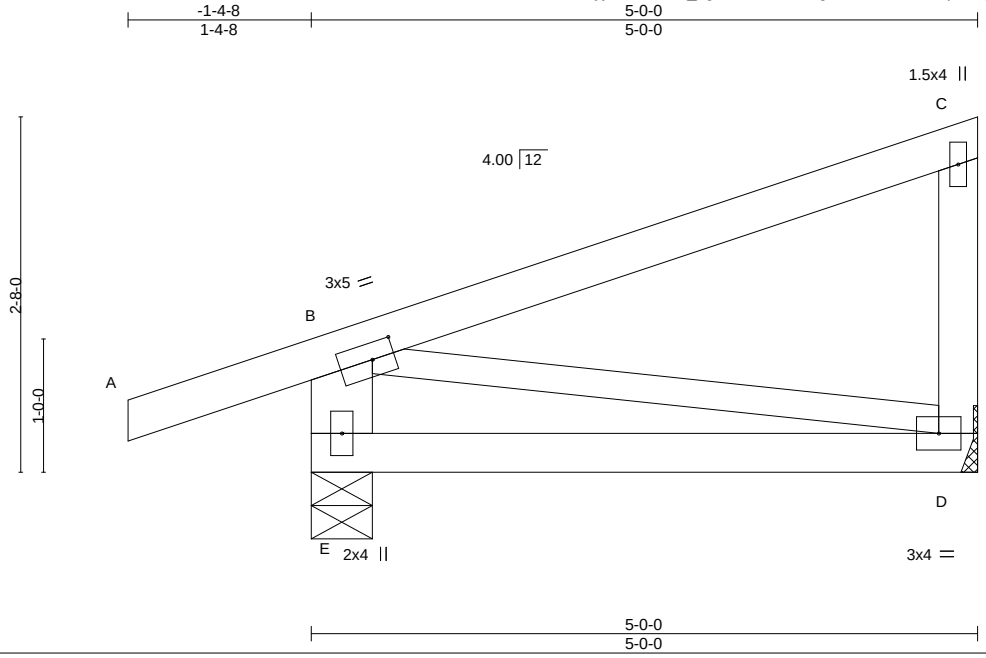


Plate Offsets (X,Y)-- [B:0-2-0,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.03	D-E	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.05	D-E	>999	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00	D	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MP		Wind(LL)	0.00	E	****	240	Weight: 20 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
B-E: 2x6 SPF No.2, B-D: 2x3 SPF No.2

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

REACTIONS. (size) D=Mechanical, E=0-5-8
Max Horz E=81(LC 7)
Max Uplift D=-30(LC 10), E=-79(LC 6)
Max Grav D=260(LC 17), E=487(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-E=-441/103

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint D and 79 lb uplift at joint E.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	P1	GABLE	9	1	U1488935
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:46:06 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

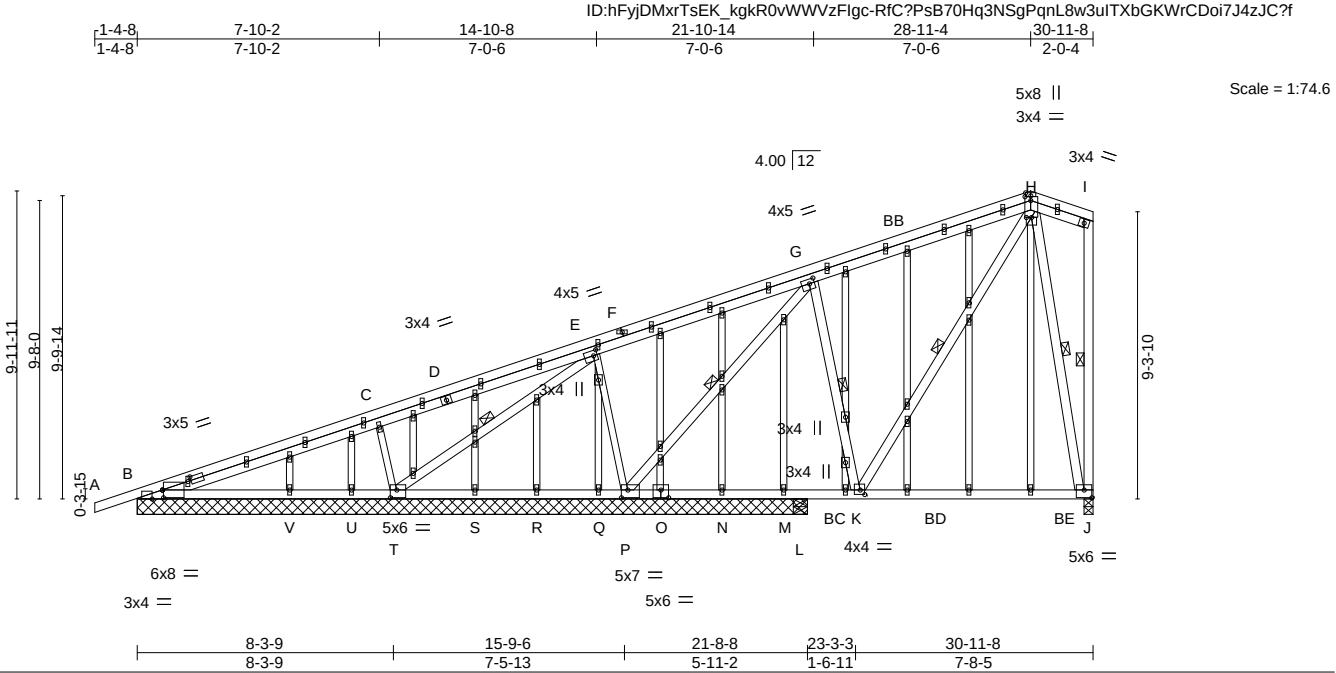


Plate Offsets (X,Y)-- [B:0-0-7,0-3-0], [B:0-11-12,0-1-8], [B:0-4-0,Edge], [E:0-1-8,0-2-0], [G:0-2-0,0-1-12], [H:0-1-8,0-2-4], [H:0-2-0,0-0-0], [H:0-2-0,Edge], [J:0-3-0,0-3-0], [K:0-1-12,0-1-12], [O:0-3-0,0-3-0], [P:0-2-8,0-3-0], [T:0-2-8,0-3-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	25.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.16	J-K	>692	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.26	J-K	>432	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	-0.02	N	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.04	V-BA	>999	240	Weight: 226 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
C-T,E-P: 2x3 SPF No.2
OTHERS 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-9-8 oc bracing.
WEBS 1 Row at midpt E-T, G-P, G-K, H-K, I-J, H-J

REACTIONS. All bearings 21-8-8 except (jt=length) J=0-3-8, L=0-5-8.
(lb) - Max Horz B=754(LC 35)
Max Uplift All uplift 100 lb or less at joint(s) M, U, V except B=-1006(LC 32), T=-1651(LC 40), P=-1094(LC 32), J=-1170(LC 33), L=-198(LC 19)
Max Grav All reactions 250 lb or less at joint(s) M, N, Q, R, S, U, L except B=1117(LC 27), T=1750(LC 53), P=1693(LC 29), J=1557(LC 26), V=330(LC 26), B=481(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2932/2749, C-E=-966/930, E-G=-1569/1477, G-H=-1624/1472, H-I=-529/553
BOT CHORD B-V=-2174/2051, U-V=-1082/954, T-U=-393/270, S-T=-1915/1800, R-S=-1022/908, Q-R=-592/477, P-Q=-891/776, N-P=-903/1006, M-N=-1023/1097, L-M=-1209/1282, K-L=-1209/1282, J-K=-293/295
WEBS C-T=-539/202, E-T=-2562/2500, E-P=-943/931, G-P=-2452/2236, G-K=-1136/1260, H-K=-1336/1472, H-J=-1456/1228

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) M, U, V except (jt=lb) B=1006, T=1651, P=1094, J=1170, L=198, B=1006.

May 22,2023

Continued on page 2

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

NOTES-

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 has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 21-8-8 for 342.3 plf.
13) No notches allowed in overhang and 10408 from left end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	P2	Common	49	1	U1488936
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:46:11 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

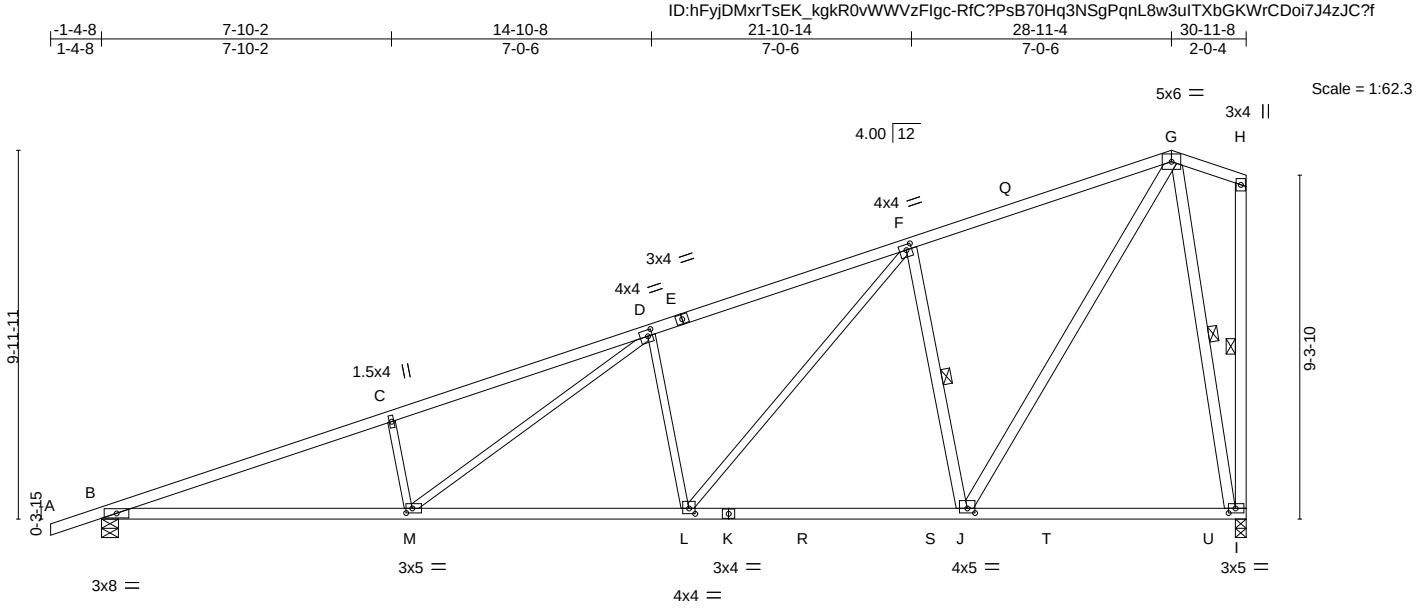


Plate Offsets (X,Y)-- [D:0-1-8,0-2-0], [F:0-1-12,0-1-12], [I:0-2-4,0-1-8], [J:0-2-8,0-1-8], [L:0-2-0,0-1-12], [M:0-2-0,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.27	M-P	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.49	M-P	>747	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.08	I	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.14	M-P	>999	240	Weight: 136 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
B-K: 2x4 SPF 2100F 1.8E
WEBS 2x4 SPF No.2 *Except*
C-M,D-M,D-L,F-L: 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt F-J, H-I, G-I

REACTIONS. (size) B=0-5-8, I=0-3-8
Max Horz B=299(LC 9)
Max Uplift B=-206(LC 6), I=-184(LC 6)
Max Grav B=1603(LC 3), I=1584(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-3743/392, C-D=-3680/433, D-F=-2470/323, F-G=-1336/226
BOT CHORD B-M=-466/3511, L-M=-297/2434, J-L=-140/1415, I-J=-83/292
WEBS C-M=-539/176, D-M=-171/1245, D-L=-868/220, F-L=-181/1365, F-J=-1251/281, G-J=-234/1779, G-I=-1488/180

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=206, I=184.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	P3	COMMON	5	1	U1488937
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:46:12 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

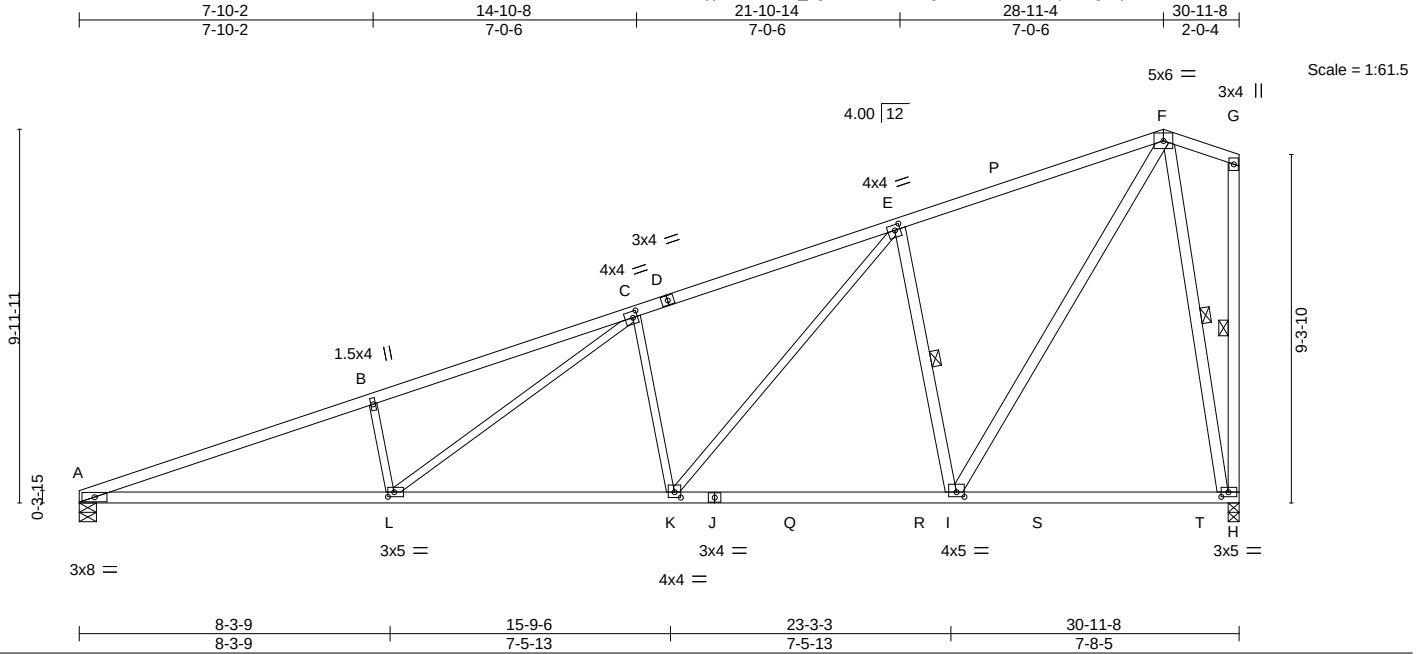


Plate Offsets (X,Y)-- [C:0-1-8,0-2-0], [E:0-1-12,0-1-12], [H:0-2-4,0-1-8], [I:0-2-8,0-1-8], [K:0-2-0,0-1-12], [L:0-2-0,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.25	L-O	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.46	L-O	>804	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.08	H	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.13	L-O	>999	240	Weight: 134 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2 *Except*
A-D: 2x4 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2 *Except*
A-J: 2x4 SPF 2100F 1.8E
WEBS 2x4 SPF No.2 *Except*
B-L,C-L,C-K,E-K: 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt E-I, G-H, F-H

REACTIONS. (size) A=0-5-8, H=0-3-8
Max Horz A=292(LC 9)
Max Uplift A=-161(LC 6), H=-185(LC 6)
Max Grav A=1517(LC 3), H=1586(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-3764/404, B-C=-3703/446, C-E=-2476/327, E-F=-1338/227
BOT CHORD A-L=-473/3533, K-L=-299/2441, I-K=-140/1418, H-I=-83/292
WEBS B-L=-549/178, C-L=-176/1263, C-K=-875/222, E-K=-183/1370, E-I=-1254/281, F-I=-235/1782, F-H=-1490/181

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=161, H=185.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	P4	Common	25	1	U1488938
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:46:13 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

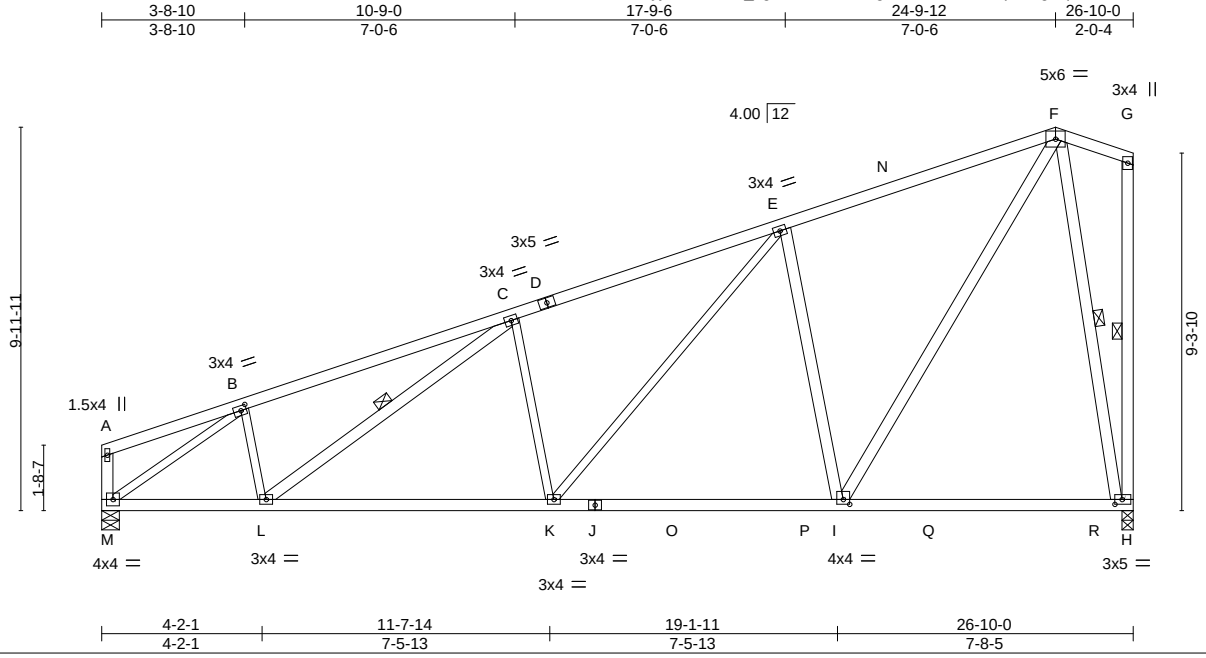


Plate Offsets (X,Y)-- [B:0-1-12,0-1-8], [H:0-2-4,0-1-8], [I:0-2-0,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.16	H-I	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.26	H-I	>999	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.05	H	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.06	K-L	>999	240	Weight: 132 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
B-L,C-K,E-K,B-M: 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt C-L, G-H, F-H

REACTIONS. (size) M=0-5-8, H=0-3-8
Max Horz M=285(LC 9)
Max Uplift M=-134(LC 6), H=-162(LC 6)
Max Grav M=1315(LC 3), H=1375(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1838/235, C-E=-1856/258, E-F=-1121/203
BOT CHORD L-M=-260/1628, K-L=-227/1770, I-K=-132/1159, H-I=-84/251
WEBS B-L=0/298, C-K=-472/178, E-K=-127/854, E-I=-983/250, F-I=-199/1456, B-M=-1974/205, F-H=-1277/165

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) M=134, H=162.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	P5	GABLE	4	1	U1488939
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:46:17 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

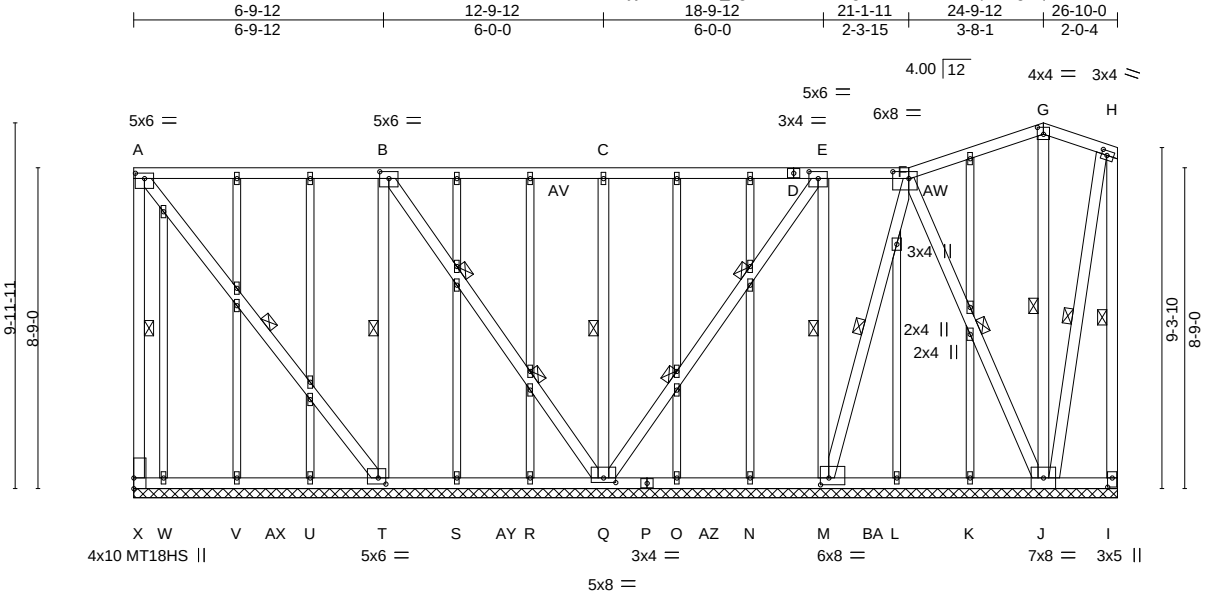


Plate Offsets (X,Y)-- [A:0-3-0,0-1-12], [B:0-3-0,0-2-4], [E:0-3-0,0-2-4], [F:0-5-4,0-2-4], [G:0-2-0,0-2-4], [H:0-1-12,0-1-8], [I:0-3-0,0-1-8], [M:0-2-12,0-2-4], [Q:0-4-0,0-1-8], [T:0-2-8,0-2-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	25.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.33	Vert(CT)	n/a	-	n/a	999	MT18HS	197/144
TCDL	12.0	Rep Stress Incr	YES	WB	0.98	Horz(CT)	-0.01	Q	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-S							Weight: 242 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
A-X,A-T: 2x4 SPF 2100F 1.8E
OTHERS 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-7-5 oc bracing.
WEBS 1 Row at midpt A-X, A-T, B-T, C-Q, E-M, F-M, F-J, G-J, H-I, H-J
2 Rows at 1/3 pts B-Q, E-Q

REACTIONS. All bearings 26-10-0.
(lb) - Max Horz X=-159(LC 37)
Max Uplift All uplift 100 lb or less at joint(s) except X=-2533(LC 36), T=-542(LC 41), Q=-227(LC 40), M=-774(LC 32), J=-1684(LC 33), I=-853(LC 35), W=-126(LC 35)
Max Grav All reactions 250 lb or less at joint(s) K, L, N, O, R, S, U, V, W except X=2473(LC 35), T=751(LC 28), Q=1118(LC 68), M=899(LC 29), J=1770(LC 52), I=871(LC 52)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-X=-2388/2402, A-B=-1877/1861, B-C=-1612/1590, C-E=-1375/1353, E-F=-541/522, F-G=-1250/1223, G-H=-294/311, H-I=-848/853
BOT CHORD V-W=-708/702, U-V=-1188/1182, T-U=-1668/1662, S-T=-282/274, R-S=-762/754, Q-R=-1242/1234, O-Q=-1493/1488, N-O=-1013/1008, M-N=-533/528, L-M=-766/763, K-L=-286/283, J-K=-696/693, I-J=-448/448
WEBS A-T=-3019/3015, B-T=-1990/1993, B-Q=-2347/2335, C-Q=-658/135, E-Q=-2411/2408, E-M=-1962/1955, F-M=-2717/2714, F-J=-2461/2468, G-J=-329/236, H-J=-798/798

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left exposed ; end vertical left exposed; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

May 22,2023

Continued on page 2

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

NOTES-

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2533 lb uplift at joint X, 542 lb uplift at joint T, 227 lb uplift at joint Q, 774 lb uplift at joint M, 1684 lb uplift at joint J, 853 lb uplift at joint I and 126 lb uplift at joint W.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
14) This truss has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 26-10-0 for 240.0 plf.

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	P6	GABLE	4	1	U1488940
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:46:22 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

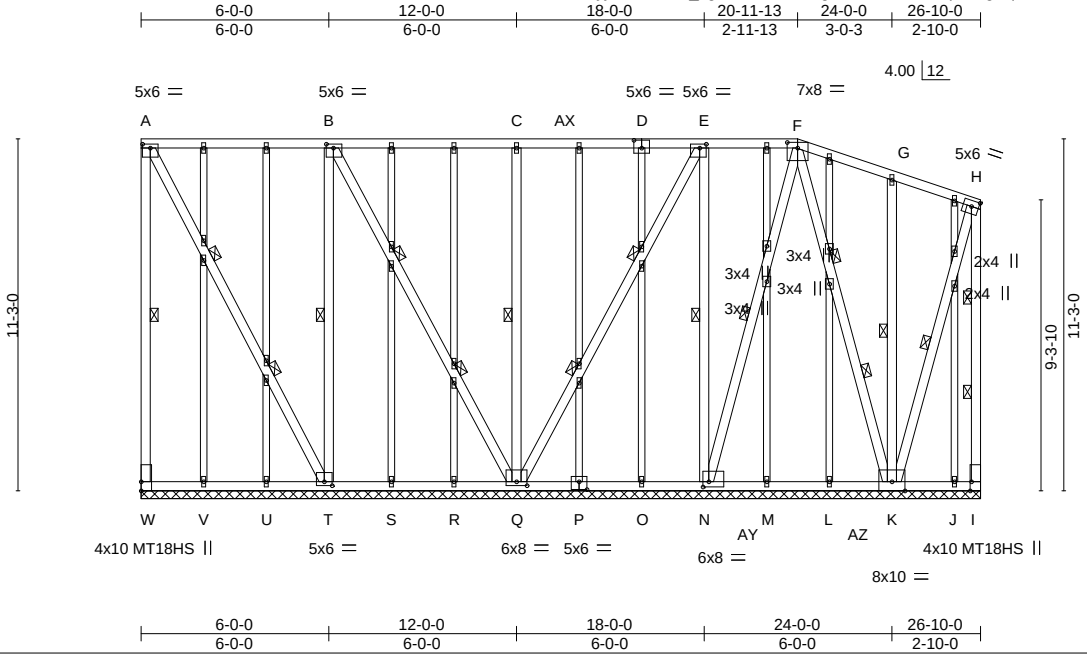


Plate Offsets (X,Y)-- [A:0-3-0,0-1-8], [B:0-2-12,0-1-8], [D:0-3-0,0-3-0], [E:0-2-8,0-1-8], [F:0-4-0,0-2-3], [H:0-2-12,0-2-4], [I:0-3-8,Edge], [N:0-2-4,0-2-0], [P:0-3-0,0-3-0], [Q:0-4-0,0-1-8], [T:0-3-0,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	25.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.33	Vert(CT)	n/a	-	n/a	999	MT18HS	197/144
TCDL	12.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.02	Q	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-S							Weight: 283 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF 2100F 1.8E *Except* G-K,H-I,H-K: 2x4 SPF No.2
OTHERS 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-5 oc bracing.
WEBS 1 Row at midpt A-W, B-T, C-Q, E-N, F-N, G-K, H-K
2 Rows at 1/3 pts A-T, B-Q, E-Q, F-K, H-I

REACTIONS. All bearings 26-10-0.
(lb) - Max Horz W=-184(LC 33)
Max Uplift All uplift 100 lb or less at joint(s) except W=-2704(LC 32), T=-119(LC 34), Q=-208(LC 33), N=-332(LC 34), I=-1801(LC 39), K=-1788(LC 35), J=-138(LC 32)
Max Grav All reactions 250 lb or less at joint(s) V, U, S, R, O, M, L, J except W=2688(LC 51), T=578(LC 64), Q=1224(LC 64), N=535(LC 29), I=1782(LC 32), K=1844(LC 52)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-W=-2661/2699, A-B=-1408/1416, B-C=-1456/1464, C-E=-1487/1495, E-F=-771/805, F-G=-977/1027, G-H=-568/541, H-I=-1670/1650
BOT CHORD V-W=-592/625, U-V=-1072/1105, T-U=-1552/1585, S-T=-627/653, R-S=-1107/1133, Q-R=-1587/1613, O-Q=-1534/1535, N-O=-574/575, M-N=-872/862, L-M=-392/382, K-L=-786/775, J-K=-740/716, I-J=-260/236
WEBS A-T=-2996/2982, B-T=-2730/2757, B-Q=-3055/3048, C-Q=-676/137, E-Q=-3062/3111, E-N=-2681/2674, F-N=-2987/3003, F-K=-3332/3303, G-K=-377/112, H-K=-1597/1615

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever right exposed ; end vertical right exposed; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

May 22,2023

Continued on page 2

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

NOTES-

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2704 lb uplift at joint W, 119 lb uplift at joint T, 208 lb uplift at joint Q, 332 lb uplift at joint N, 1801 lb uplift at joint I, 1788 lb uplift at joint K and 138 lb uplift at joint J.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
14) This truss has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 26-10-0 for 240.0 plf.

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	P7	Common	24	1	U1488941
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:46:24 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

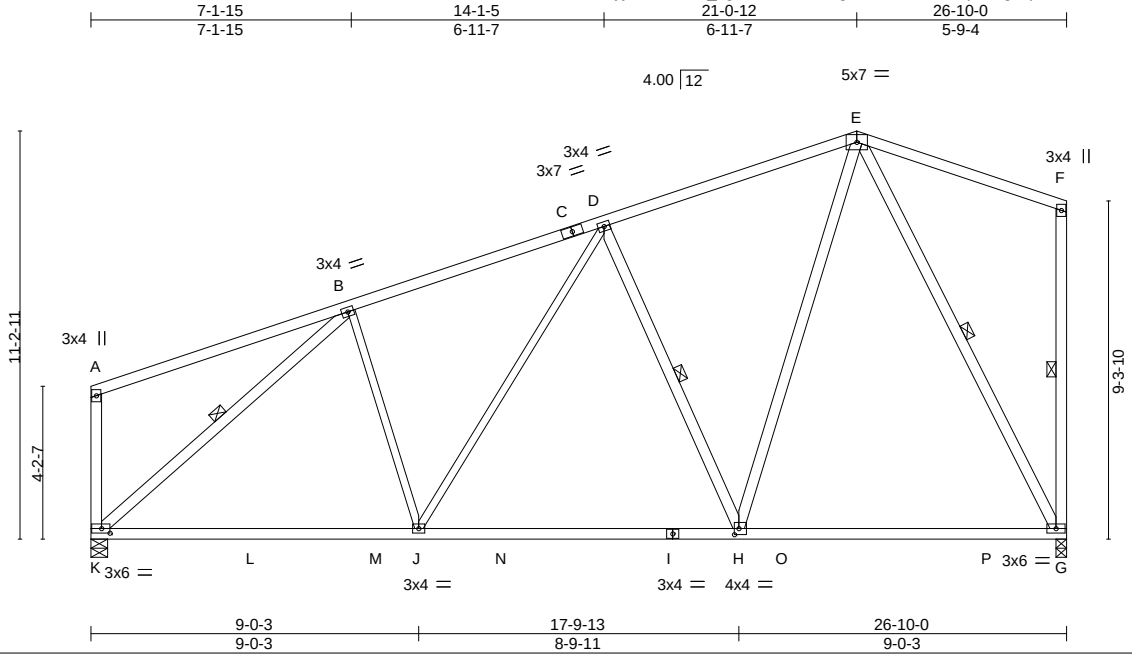


Plate Offsets (X,Y)-- [H:0-1-8,0-2-0], [K:0-2-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.31	G-H	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.49	G-H	>652	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.04	G	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	-0.05	G-H	>999	240	Weight: 137 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
B-J,D-J: 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt D-H, B-K, F-G, E-G

REACTIONS. (size) K=0-5-8, G=0-3-8
Max Horz K=262(LC 7)
Max Uplift K=-135(LC 6), G=-125(LC 6)
Max Grav K=1410(LC 3), G=1397(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-1415/184, D-E=-1053/174, F-G=-293/68
BOT CHORD J-K=-204/1220, H-J=-159/1168, G-H=-114/592
WEBS B-J=0/257, D-J=-23/265, D-H=-724/193, E-H=-93/1090, B-K=-1567/155, E-G=-1263/128

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 135 lb uplift at joint K and 125 lb uplift at joint G.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA U1488942
N0653	P8	GABLE	4	1	Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 21 2022 MiTek Industries, Inc. Fri May 19 15:33:49 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFIgc-s3lLla8WCdx4m89J1ZofluX0yE3lUA1xhJGwYBzEtj0

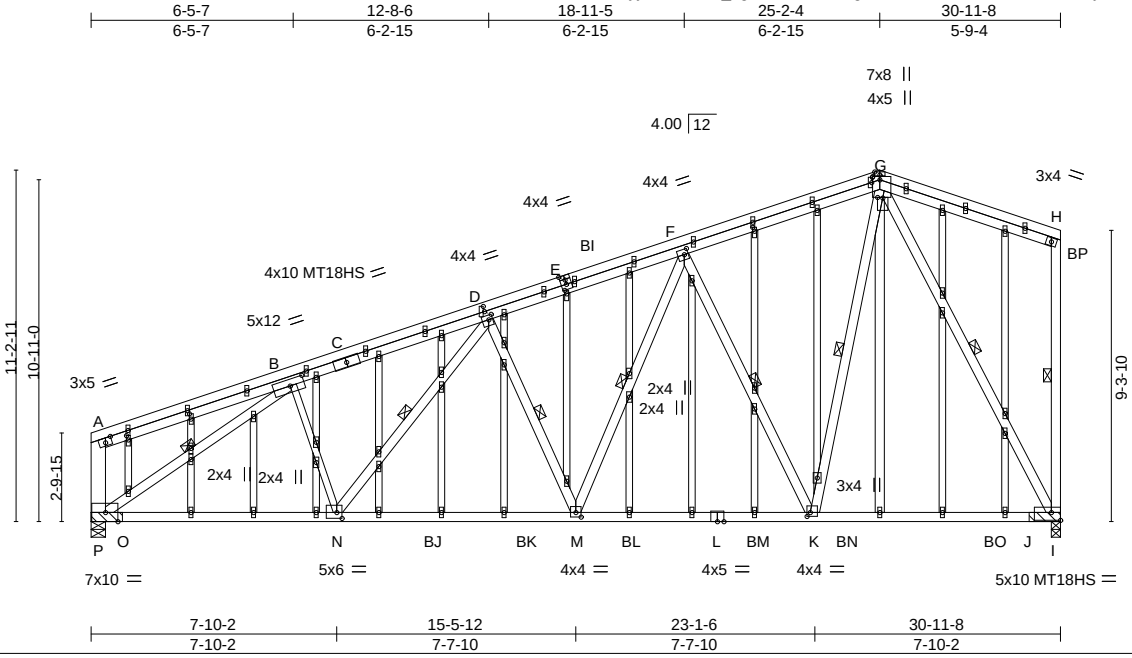


Plate Offsets (X,Y)-- [A:0-2-8,Edge], [B:0-5-8,0-2-8], [D:0-2-0,0-0-8], [D:0-1-8,0-1-12], [E:0-2-0,Edge], [E:0-1-6,0-0-12], [F:0-1-8,0-2-0], [G:0-2-0,0-0-4], [G:0-2-0,Edge], [G:0-0-4,0-2-0], [G:0-1-4,0-2-12], [I:Edge,0-3-0], [K:0-1-4,0-1-8], [M:0-2-0,0-1-12], [N:0-2-0,0-2-4], [P:0-4-12,Edge], [U:0-1-8,0-0-12], [AW:0-2-0,0-0-10], [AZ:0-1-11,0-0-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.25	M-N	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.34	M-N	>999	240	MT18HS	197/144
TCDL	12.0	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.12	I	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		Wind(LL)	0.19	M-N	>999	240	Weight: 281 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
L-P: 2x4 SPF 2100F 1.8E
WEBS 2x4 SPF No.2 *Except*
B-N: 2x3 SPF No.2, A-P: 2x6 SPF No.2, B-P,G-I: 2x4 SPF 2100F 1.8E
OTHERS 2x3 SPF No.2 *Except*
G-Q: 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-10-3 oc bracing.
WEBS 1 Row at midpt D-N, D-M, F-M, F-K, G-K, B-P, H-I, G-I

REACTIONS. (size) I=(0-3-8 + bearing block) , P=(0-5-8 + bearing block)
Max Horz P=269(LC 33)
Max Uplift I=-1379(LC 32), P=-3000(LC 31)
Max Grav I=2510(LC 25), P=3704(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1480/1507, B-D=-4501/3440, D-F=-4179/3302, F-G=-2787/2374, G-H=-1426/1495, H-I=-303/63
BOT CHORD N-P=-4010/4782, M-N=-3860/4617, K-M=-2725/3382, I-K=-1317/1626
WEBS B-N=-1380/1602, D-N=-1701/1752, D-M=-1155/1131, F-M=-1022/1460, F-K=-1608/958, G-K=-795/1845, B-P=-5761/5029, G-I=-2559/1533

NOTES-
1) 2x4 SPF No.2 bearing block 12" long at jt. I attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SPF No.2.
2) 2x4 SPF 2100F 1.8E bearing block 12" long at jt. P attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SPF No.2.
3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
4) 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.
5) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
6) Unbalanced snow loads have been considered for this design.
7) All plates are MT20 plates unless otherwise indicated.
8) All plates are 1.5x4 MT20 unless otherwise indicated.
9) Bearing capacity is increased by the plate at joint(s) P. Plate must be within 1/4 in of bearing surface.
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

May 22,2023

Continued on page 2

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

NOTES-

13) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1379 lb uplift at joint I and 3000 lb uplift at joint P.
15) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
16) This truss has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 30-11-8 for 240.0 plf.
17) No notches allowed in overhang and 0 from left end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	P9	GABLE	1	1	U1488943
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:46:33 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

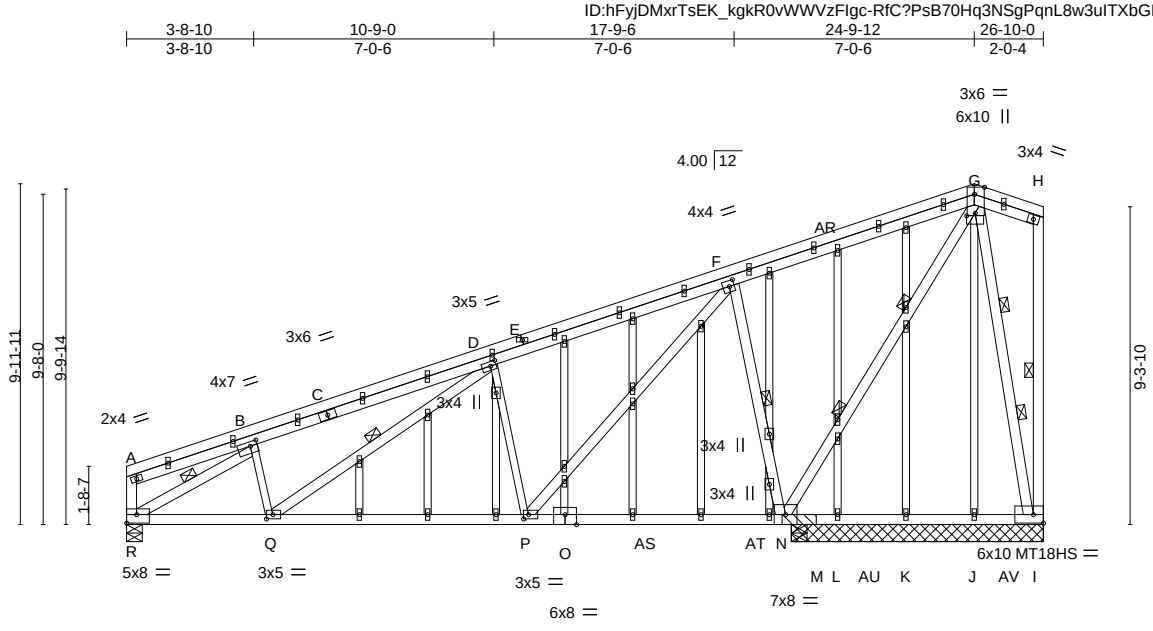


Plate Offsets (X,Y)-- [B:0-2-8,0-1-8], [D:0-2-0,0-1-8], [F:0-1-12,0-2-0], [G:0-3-0,0-0-15], [G:0-2-8,Edge], [O:0-4-0,Edge], [P:0-1-12,0-1-8], [Q:0-2-4,0-1-8], [R:Edge,0-3-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	25.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.14	P-Q	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.22	P-Q	>999	240	MT18HS	197/144
TCDL	12.0	Rep Stress Incr	YES	WB	0.94	Horz(CT)	-0.14	I	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.12	P-Q	>999	240	Weight: 212 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF 2100F 1.8E *Except*
O-R: 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
B-Q,D-P: 2x3 SPF No.2, G-N: 2x4 SPF 2100F 1.8E
OTHERS 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt D-Q, F-N, B-R, H-I
2 Rows at 1/3 pts G-N, G-I

REACTIONS. All bearings 7-4-8 except (jt=length) R=0-5-8.
(lb) - Max Horz R=471(LC 37)
Max Uplift All uplift 100 lb or less at joint(s) J except N=-3032(LC 39), R=-1657(LC 31), I=-2686(LC 50), L=-118(LC 26)
Max Grav All reactions 250 lb or less at joint(s) J, K, L except N=4048(LC 28), N=1815(LC 1), R=1949(LC 26), I=2571(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-803/824, B-D=-2462/1943, D-F=-1581/1341, F-G=-2032/2184, G-H=-521/548
BOT CHORD Q-R=-2786/3032, P-Q=-3904/4061, N-P=-4358/4252, L-N=-6183/6132, K-L=-4694/4698, J-K=-3002/2951, I-J=-1256/1205
WEBS B-Q=-743/863, D-Q=-1329/1450, D-P=-825/574, F-P=-629/1424, F-N=-1215/514, G-N=-3825/3587, B-R=-3304/2884, G-I=-2584/2731

NOTES-
1) 2x4 SPF 2100F 1.8E bearing block 12" long at jt. N attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SPF No.2.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) All plates are MT20 plates unless otherwise indicated.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) J except (jt=lb) N=3032, R=1657, I=2686, L=118.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI

Continued on page 2

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

NOTES-

13) This truss has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 19-5-8 to 26-10-0 for 873.2 plf.
14) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
15) No notches allowed in overhang and 0 from left end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

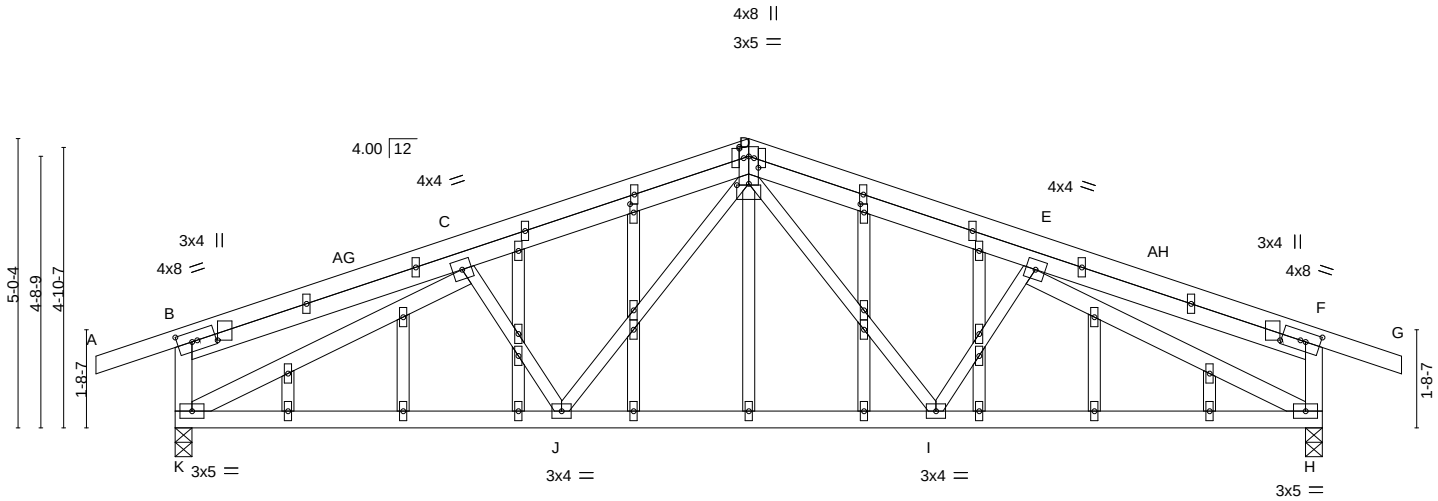
MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	P10	GABLE	1	1	U1488944
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:46:09 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-1-4-8	5-1-0	9-11-8	14-10-0	19-11-0	21-3-8
1-4-8	5-1-0	4-10-8	4-10-8	5-1-0	1-4-8

Scale = 1:40.0



6-8-8	13-2-8	19-11-0
6-8-8	6-6-0	6-8-8

Plate Offsets (X,Y)-- [B:0-0-0,0-4-4], [B:0-3-0,0-2-0], [D:0-2-0,0-0-15], [D:0-2-0,0-2-0], [D:0-2-8,0-0-4], [D:0-2-0,0-0-15], [F:0-3-0,0-2-0], [F:0-0-0,0-4-4], [N:0-1-12,0-0-12], [W:0-1-12,0-0-12], [Y:0-0-0,0-0-0], [Y:0-0-0,0-0-0], [AB:0-0-0,0-0-0], [AB:0-0-0,0-0-0], [AF:0-0-0,0-0-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	25.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.05	H-I	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.11	H-I	>999	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.04	H	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.03	I-J	>999	240	Weight: 119 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2 *Except* D-I,E-I,D-J,C-J: 2x3 SPF No.2
OTHERS	2x3 SPF No.2

BRACING-

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

REACTIONS. (size) K=0-3-8, H=0-3-8
Max Horz K=-31(LC 24)
Max Uplift K=-139(LC 6), H=-139(LC 7)
Max Grav K=1095(LC 17), H=1095(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-D=-1380/138, D-E=-1380/138, B-K=-310/104, F-H=-310/104
BOT CHORD J-K=-110/1342, I-J=-42/1016, H-I=-110/1342
WEBS D-I=-31/403, D-J=-31/403, C-K=-1465/129, E-H=-1465/129

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) except (jt=lb) K=139, H=139.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) No notches allowed in overhang and 10408 from left end and 10408 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	R1	GABLE	1	1	U1488945
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:46:35 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

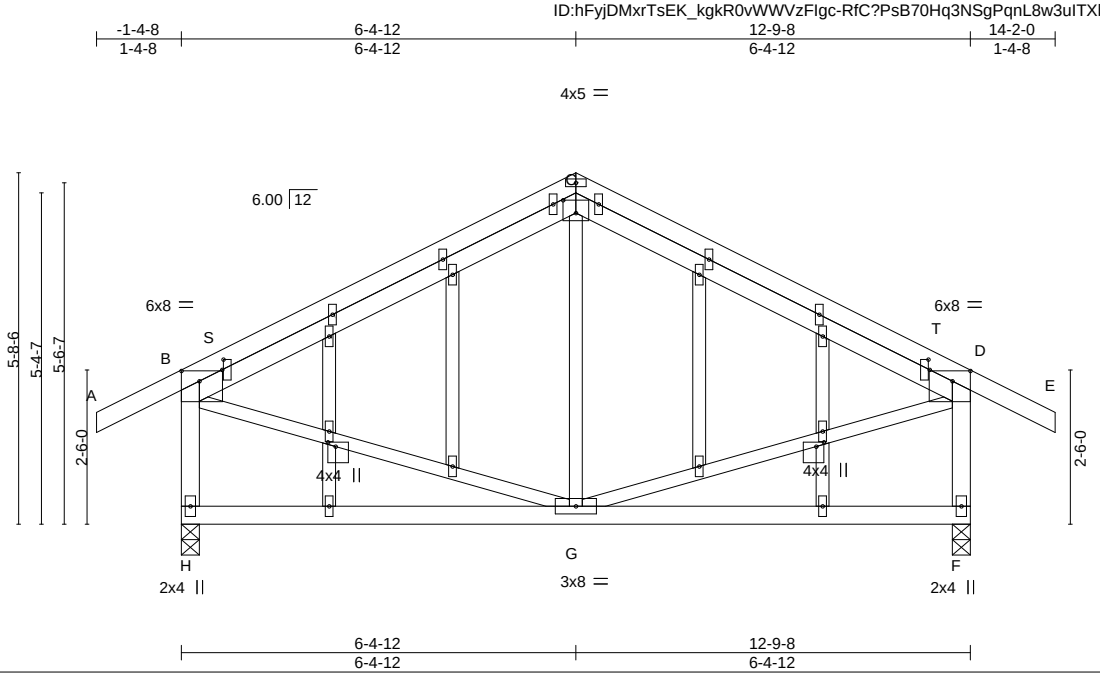


Plate Offsets (X,Y)-- [B:0-3-8,0-2-0], [C:0-2-8,0-2-8], [D:0-3-8,0-2-0], [K:0-0-14,0-1-8], [R:0-0-14,0-1-8], [S:0-2-0,0-0-4], [T:0-2-0,0-0-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.03	G-H	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.07	G-H	>999	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	F	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.00	G	>999	240	Weight: 79 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
B-H,D-F: 2x4 SPF No.2
OTHERS 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) H=0-3-8, F=0-3-8
Max Horz H=93(LC 9)
Max Uplift H=-74(LC 10), F=-74(LC 11)
Max Grav H=802(LC 17), F=802(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-594/62, C-D=-594/62, B-H=-742/99, D-F=-742/99
WEBS B-G=0/383, D-G=0/383

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) H, F.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) No notches allowed in overhang and 10408 from left end and 10408 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	R2	Common	3	1	U1488946
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:46:36 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

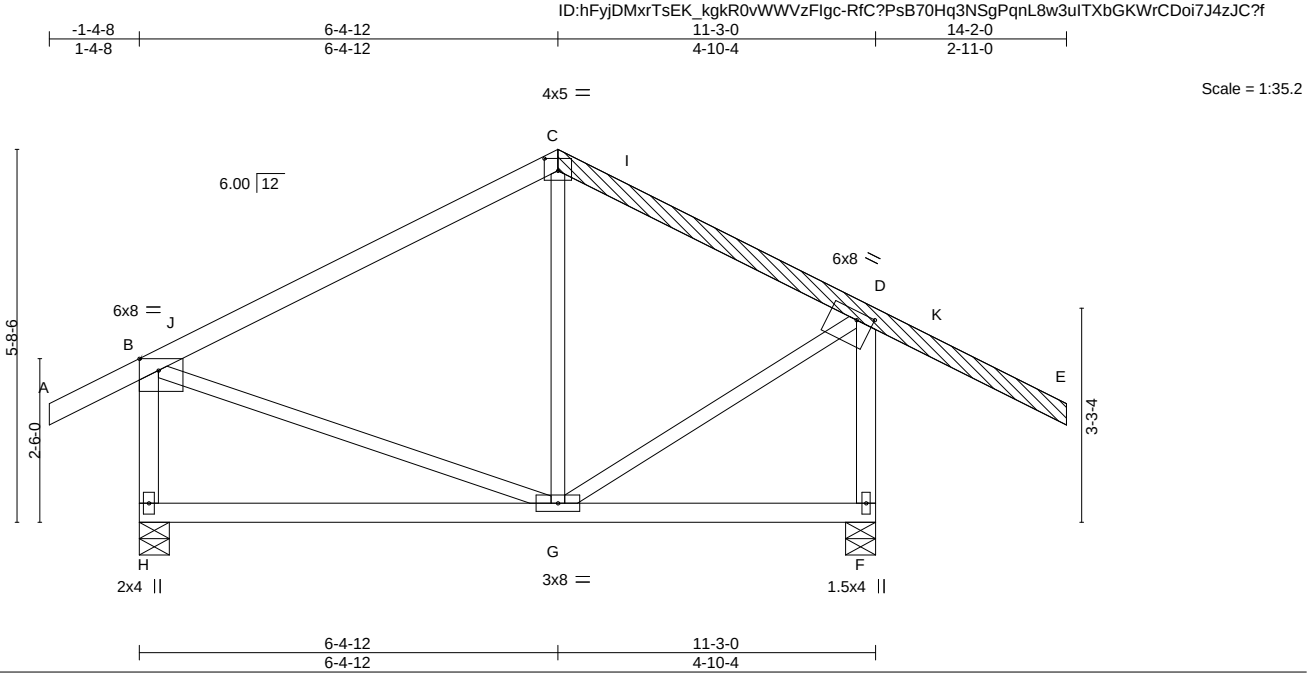


Plate Offsets (X,Y)-- [B:0-3-8,Edge], [C:0-2-8,0-2-4], [D:0-3-0,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.04	G-H	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.08	G-H	>999	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	-0.00	F	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.00	G	>999	240	Weight: 62 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x3 SPF No.2 *Except* B-H,D-F: 2x4 SPF No.2
OTHERS	2x4 SPF No.2
LBR SCAB	C-E 2x4 SPF No.2 one side

BRACING-

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

REACTIONS. (size) H=0-5-8, F=0-5-8
Max Horz H=114(LC 9)
Max Uplift H=-70(LC 10), F=-95(LC 11)
Max Grav H=729(LC 17), F=882(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-478/47, C-D=-400/68, B-H=-668/97, D-F=-847/111
WEBS D-G=0/353

NOTES-
1) Attached 8-10-0 scab C to E, front face(s) 2x4 SPF No.2 with 1 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 4-3-3 from end at joint C, nail 1 row(s) at 4" o.c. for 2-11-11.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) H, F.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

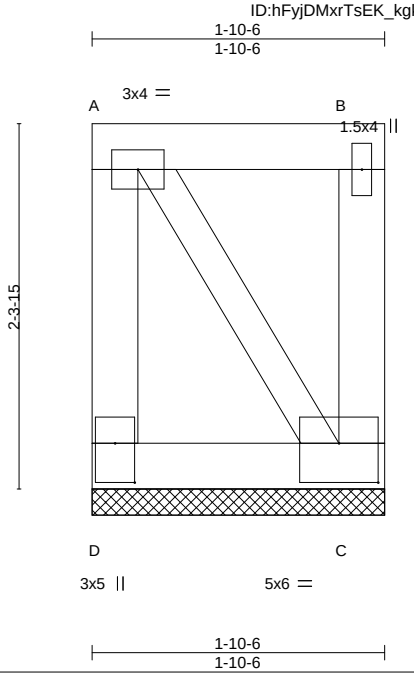
May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	S1	BLOCKING SUPPORTED	75	1	U1488947
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:46:37 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:14.7

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	-0.00	C	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 10 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
A-C: 2x3 SPF No.2

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

REACTIONS. (size) D=1-10-6, C=1-10-6
Max Horz D=58(LC 5)
Max Uplift D=-535(LC 24), C=-535(LC 27)
Max Grav D=544(LC 31), C=544(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-528/543, A-B=-361/356
BOT CHORD C-D=-390/385
WEBS A-C=-665/665

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) except (jt=lb) D=535, C=535.
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 has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 240.0 plf.

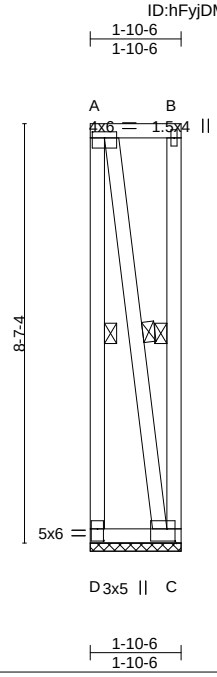
May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	S2	BLOCKING SUPPORTED	119	1	U1488948
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:46:45 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:47.3

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 32 lb	FT = 20%
BCDL	10.0											

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 1-10-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt A-D, B-C, A-C

REACTIONS. (size) D=1-10-6, C=1-10-6
Max Uplift D=-2005(LC 23), C=-2005(LC 24)
Max Grav D=2030(LC 44), C=2030(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-2014/2013, A-B=-340/340
BOT CHORD C-D=-340/340
WEBS A-C=-2031/2031

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except (jt=lb) D=2005, C=2005.
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 has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 240.0 plf.

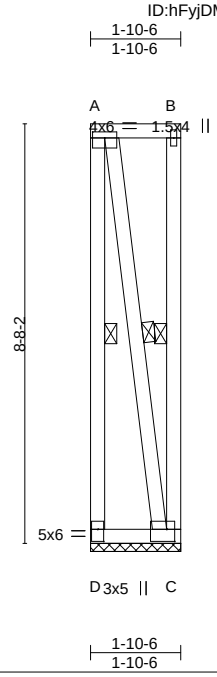
May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	S3	BLOCKING SUPPORTED	119	1	U1488949
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:46:46 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale: 1/4"=1'

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

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	25.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 32 lb	FT = 20%
BCDL	10.0											

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 1-10-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt A-D, B-C, A-C

REACTIONS. (size) D=1-10-6, C=1-10-6
Max Uplift D=-2022(LC 23), C=-2022(LC 24)
Max Grav D=2047(LC 44), C=2047(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-2031/2029, A-B=-340/340
BOT CHORD C-D=-340/340
WEBS A-C=-2047/2047

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except (jt=lb) D=2022, C=2022.
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 has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 240.0 plf.

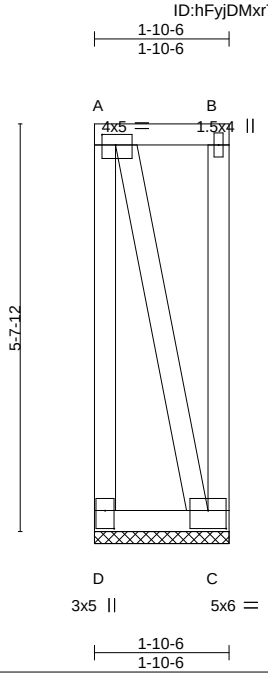
May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	S4	BLOCKING SUPPORTED	104	1	U1488950
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:46:48 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale: 3/8"=1'

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	-0.00	C	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 22 lb	FT = 20%
BCDL	10.0											

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 1-10-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) D=1-10-6, C=1-10-6
Max Horz D=-151(LC 4)
Max Uplift D=-1553(LC 24), C=-1553(LC 27)
Max Grav D=1561(LC 31), C=1561(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-1545/1561, A-B=-396/382
BOT CHORD C-D=-472/458
WEBS A-C=-1609/1609

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) except (jt=lb) D=1553, C=1553.
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 has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 240.0 plf.

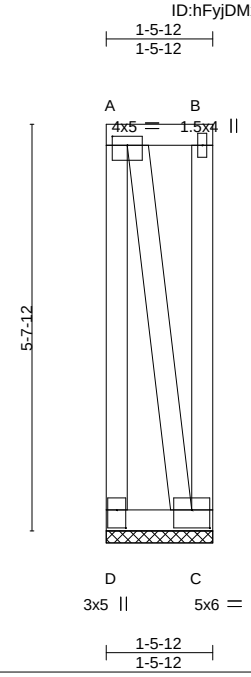
May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	S5	BLOCKING SUPPORTED	26	1	U1488951
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:46:49 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale: 3/8"=1'

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.85	Horz(CT)	-0.00	C	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 21 lb	FT = 20%
BCDL	10.0											

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 1-5-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) D=1-5-12, C=1-5-12
Max Horz D=-152(LC 25)
Max Uplift D=-1634(LC 24), C=-1634(LC 27)
Max Grav D=1640(LC 31), C=1640(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-1629/1640, A-B=-313/299
BOT CHORD C-D=-389/375
WEBS A-C=-1667/1667

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) except (jt=lb) D=1634, C=1634.
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 has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-5-12 for 240.0 plf.

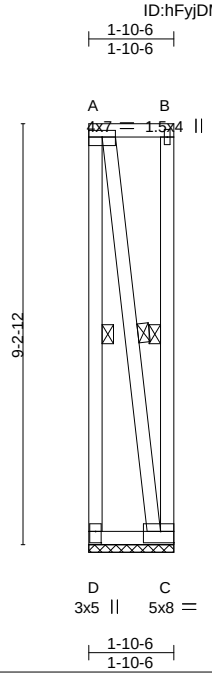
May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	S6	BLOCKING SUPPORTED	99	1	U1488952
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:46:50 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:50.5

Plate Offsets (X,Y)-- [A:Edge,0-1-12], [C:Edge,0-3-0], [D:0-3-0,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 34 lb	FT = 20%
BCDL	10.0											

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 1-10-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt A-D, B-C, A-C

REACTIONS. (size) D=1-10-6, C=1-10-6
Max Uplift D=-2155(LC 23), C=-2155(LC 24)
Max Grav D=2180(LC 44), C=2180(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-2164/2163, A-B=-340/340
BOT CHORD C-D=-340/340
WEBS A-C=-2178/2178

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except (jt=lb) D=2155, C=2155.
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 has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 240.0 plf.

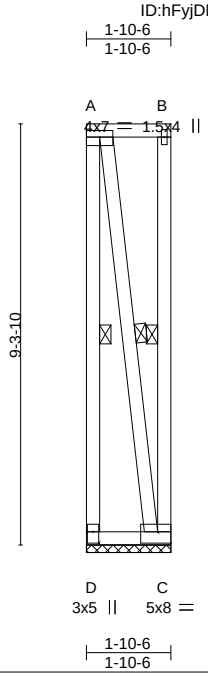
May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	S7	BLOCKING SUPPORTED	99	1	U1488953
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:46:51 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:50.9

Plate Offsets (X,Y)-- [A:Edge,0-1-12], [C:Edge,0-3-0], [D:0-3-0,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 34 lb	FT = 20%
BCDL	10.0											

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 1-10-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt A-D, B-C, A-C

REACTIONS. (size) D=1-10-6, C=1-10-6
Max Uplift D=-2171(LC 23), C=-2171(LC 24)
Max Grav D=2197(LC 44), C=2197(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-2181/2179, A-B=-340/340
BOT CHORD C-D=-340/340
WEBS A-C=-2195/2195

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except (jt=lb) D=2171, C=2171.
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 has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 240.0 plf.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

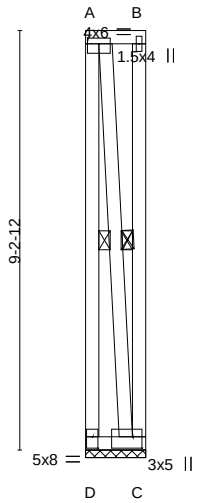
PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	S8	BLOCKING SUPPORTED	4	1	U1488954
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:46:53 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1-3-14
1-3-14

Scale = 1:50.7



1-3-14
1-3-14

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 20%
BCDL	10.0											

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 1-3-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt A-D, B-C, A-C

REACTIONS. (size) D=1-3-14, C=1-3-14
Max Uplift D=-2152(LC 23), C=-2152(LC 24)
Max Grav D=2168(LC 44), C=2168(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-2158/2157
WEBS A-C=-2160/2160

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except (jt=lb) D=2152, C=2152.
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 has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-3-14 for 240.0 plf.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

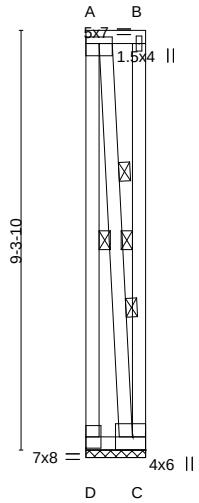
PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	S9	BLOCKING SUPPORTED	4	1	U1488955
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:46:54 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1-3-14
1-3-14

Scale = 1:51.1



1-3-14
1-3-14

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	-0.00	C	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF 2100F 1.8E *Except*
A-C: 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-3-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt A-D, B-C
2 Rows at 1/3 pts A-C

REACTIONS. (size) D=1-3-14, C=1-3-14
Max Horz D=-255(LC 4)
Max Uplift D=-3281(LC 24), C=-3281(LC 27)
Max Grav D=3287(LC 31), C=3287(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-3276/3286, A-B=-317/295
BOT CHORD C-D=-445/422
WEBS A-C=-3297/3297

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) except (jt=lb) D=3281, C=3281.
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 has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-3-14 for 240.0 plf.

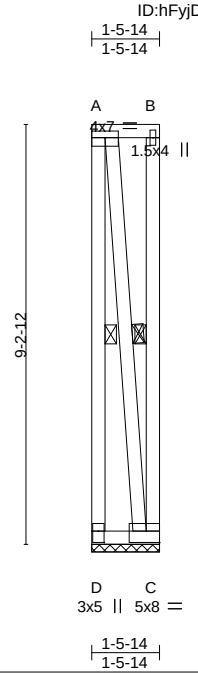
May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	S10	BLOCKING SUPPORTED	1	1	U1488956
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:46:39 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:50.6

Plate Offsets (X,Y)-- [A:Edge,0-1-12], [C:Edge,0-3-0], [D:0-3-0,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 20%
BCDL	10.0											

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 1-5-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt A-D, B-C, A-C

REACTIONS. (size) D=1-5-14, C=1-5-14
Max Uplift D=-2153(LC 23), C=-2153(LC 24)
Max Grav D=2172(LC 44), C=2172(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-2160/2159, A-B=-259/259
BOT CHORD C-D=-259/259
WEBS A-C=-2165/2165

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except (jt=lb) D=2153, C=2153.
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 has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-5-14 for 240.0 plf.

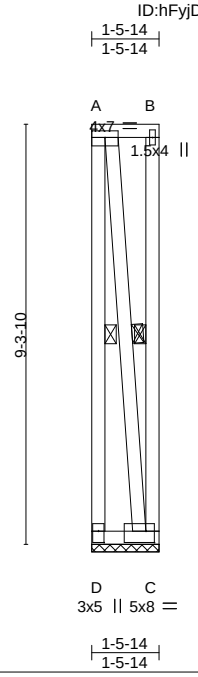
May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	S11	BLOCKING SUPPORTED	1	1	U1488957
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:46:40 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:51.0

Plate Offsets (X,Y)-- [A:Edge,0-1-12], [C:0-2-4,0-3-0], [D:0-3-0,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	25.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 20%
BCDL	10.0											

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 1-5-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt A-D, B-C, A-C

REACTIONS. (size) D=1-5-14, C=1-5-14
Max Uplift D=-2169(LC 23), C=-2169(LC 24)
Max Grav D=2188(LC 44), C=2188(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-2176/2175, A-B=-259/259
BOT CHORD C-D=-259/259
WEBS A-C=-2181/2181

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except (jt=lb) D=2169, C=2169.
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 has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-5-14 for 240.0 plf.

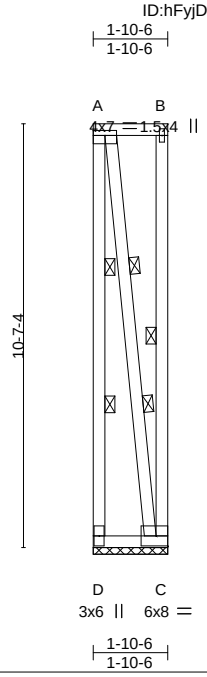
May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	S12	BLOCKING SUPPORTED	232	1	U1488958
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:46:41 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:57.7

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 39 lb	FT = 20%
BCDL	10.0											

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 1-10-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt B-C
2 Rows at 1/3 pts A-D, A-C

REACTIONS. (size) D=1-10-6, C=1-10-6
Max Uplift D=-2485(LC 23), C=-2485(LC 24)
Max Grav D=2510(LC 44), C=2510(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-2494/2493, A-B=-340/340
BOT CHORD C-D=-340/340
WEBS A-C=-2504/2504

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except (jt=lb) D=2485, C=2485.
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 has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 240.0 plf.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	S13	BLOCKING SUPPORTED	6	1	U1488959
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:46:43 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Scale = 1:57.9

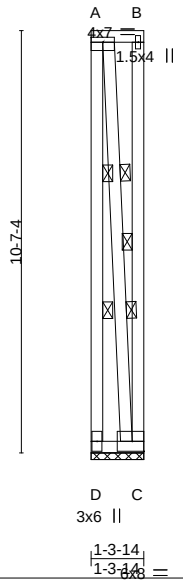


Plate Offsets (X,Y)-- [A:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 37 lb	FT = 20%
BCDL	10.0											

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 1-3-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt B-C
2 Rows at 1/3 pts A-D, A-C

REACTIONS. (size) D=1-3-14, C=1-3-14
Max Uplift D=-2482(LC 23), C=-2482(LC 24)
Max Grav D=2498(LC 44), C=2498(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-2488/2487
WEBS A-C=-2488/2488

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) except (jt=lb) D=2482, C=2482.
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 has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-3-14 for 240.0 plf.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	S14	BLOCKING SUPPORTED	36	1	U1488960
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:46:44 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

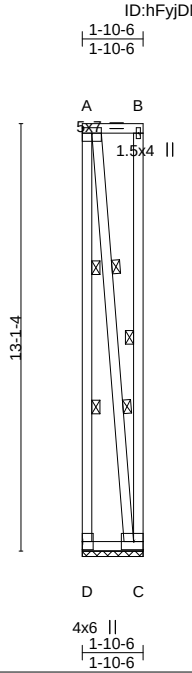


Plate Offsets (X,Y)-- [A:Edge,0-2-0] 6x8 =

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 47 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF 2100F 1.8E

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt B-C
2 Rows at 1/3 pts A-D, A-C

REACTIONS. (size) D=1-10-6, C=1-10-6
Max Uplift D=-3085(LC 23), C=-3085(LC 24)
Max Grav D=3110(LC 44), C=3110(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-D=-3094/3093, A-B=-340/340
BOT CHORD C-D=-340/340
WEBS A-C=-3099/3099

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Provide adequate drainage to prevent water ponding.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except (jt=lb) D=3085, C=3085.
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 has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-6 for 240.0 plf.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	T1	GABLE	9	1	U1488961
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:46:58 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Scale = 1:56.9

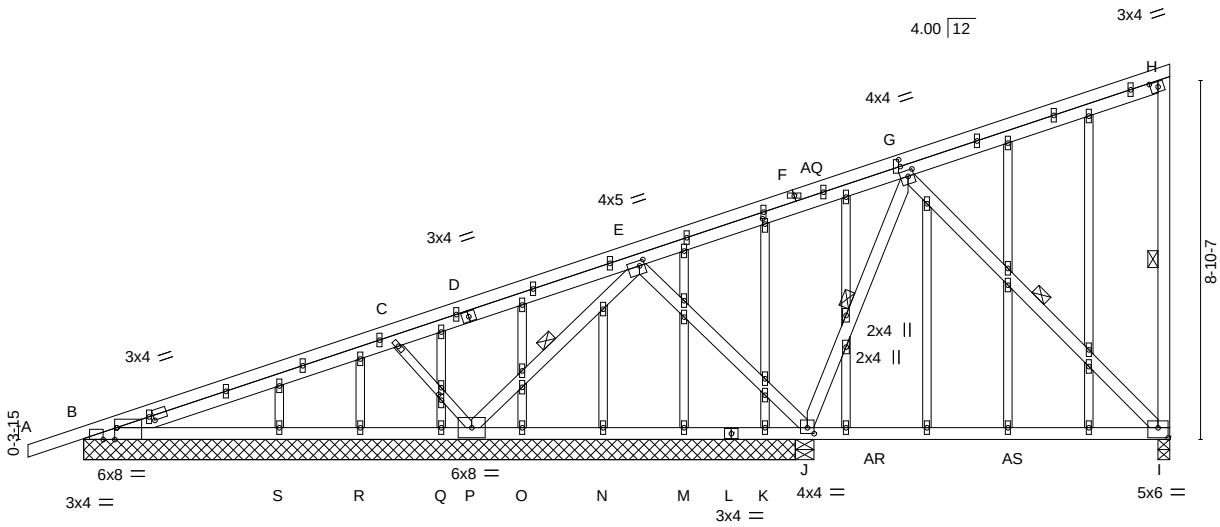


Plate Offsets (X,Y)-- [B:0-0-9,Edge], [B:0-11-7,0-1-8], [B:0-4-0,Edge], [E:0-1-8,0-1-8], [G:0-2-0,0-0-8], [G:0-1-12,0-1-12], [H:0-2-4,0-1-8], [I:0-3-0,0-3-0], [J:0-2-0,0-1-12], [AF:0-1-9,0-0-12], [AM:0-1-12,0-0-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.22	I-J	>478	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.37	I-J	>288	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	-0.02	N	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-S		Wind(LL)	-0.04	I-J	>999	240	Weight: 176 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
C-P: 2x3 SPF No.2
OTHERS 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-6-7 oc bracing.
WEBS 1 Row at midpt H-I, E-P, G-J, G-I

REACTIONS. All bearings 17-7-0 except (jt=length) I=0-3-8, J=0-5-8.
(lb) - Max Horz B=434(LC 38)
Max Uplift All uplift 100 lb or less at joint(s) R except I=-871(LC 41), B=-806(LC 32), P=-2103(LC 40), J=-318(LC 32), K=-446(LC 19)
Max Grav All reactions 250 lb or less at joint(s) M, N, O, Q, R, S except I=1117(LC 28), B=921(LC 29), P=2141(LC 53), J=1434(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2718/2502, C-E=-1022/984, E-G=-2148/1999, G-H=-1764/1659, H-I=-301/52
BOT CHORD B-S=-2719/2495, R-S=-948/845, Q-R=-820/717, P-Q=-1096/992, O-P=-882/804, N-O=-480/402, M-N=-1213/1134, K-M=-1945/1862, J-K=-2328/2249, I-J=-886/836
WEBS C-P=-559/200, E-P=-2729/2683, E-J=-1440/1477, G-J=-1516/1417, G-I=-1175/1213

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) R except (jt=lb) I=871, B=806, P=2103, J=318, K=446.
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 has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist Continued on page 2

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	T1	GABLE	9	1	U1488961 Job Reference (optional)

NOTES-

13) No notches allowed in overhang and 10408 from left end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	T2	Monopitch	99	1	U1488962
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:00 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

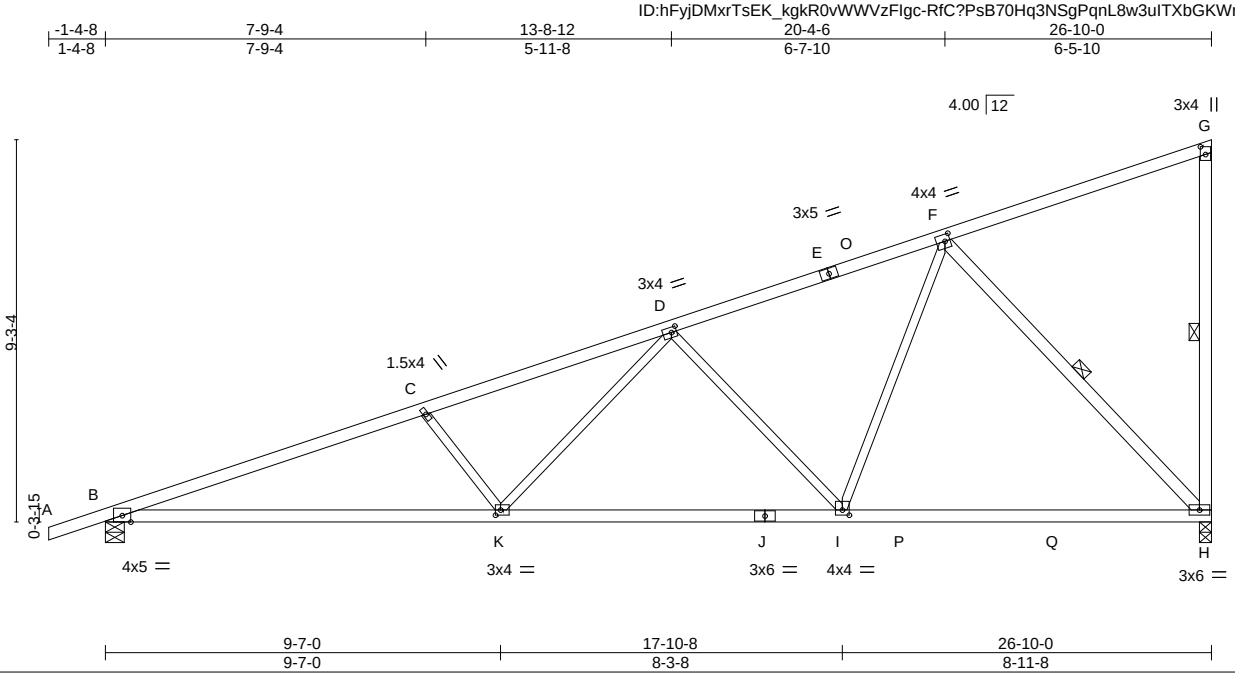


Plate Offsets (X,Y)-- [D:0-1-8,0-1-8], [F:0-1-8,0-2-0], [G:0-2-4,0-1-8], [I:0-2-0,0-1-8], [K:0-1-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.30	H-I	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.55	K-N	>587	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.07	H	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.13	K-N	>999	240	Weight: 103 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
B-J: 2x4 SPF 2100F 1.8E
WEBS 2x3 SPF No.2 *Except*
G-H,F-H: 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 G-H, F-H

REACTIONS. (size) H=0-3-8, B=0-5-8
Max Horz B=301(LC 9)
Max Uplift H=-180(LC 10), B=-182(LC 6)
Max Grav H=1535(LC 3), B=1425(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-3138/325, C-D=-2875/291, D-F=-1585/171, G-H=-296/51
BOT CHORD B-K=-394/2941, I-K=-249/2032, H-I=-112/1082
WEBS C-K=-534/165, D-K=-71/947, D-I=-914/199, F-I=-64/1077, F-H=-1568/234

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) H=180, B=182.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	T3	GABLE	9	1	U1488963
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:05 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Scale = 1:56.9

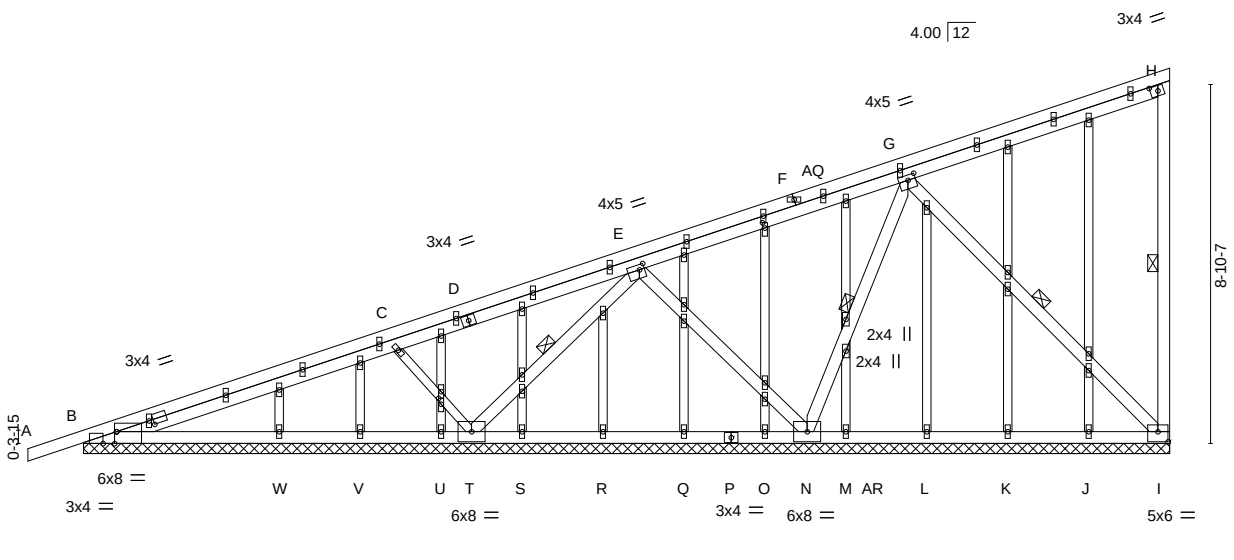


Plate Offsets (X,Y)-- [B:0-0-9,Edge], [B:0-11-7,0-1-8], [B:0-4-0,Edge], [E:0-1-8,0-1-8], [G:0-2-4,0-1-8], [H:0-2-4,0-1-8], [I:0-3-0,0-3-0], [AF:0-1-9,0-0-12], [AM:0-1-12,0-0-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.01	A	n/r	120	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.56	Vert(CT)	0.04	A	n/r	90		
TCDL	12.0	Rep Stress Incr	YES	WB	0.89	Horz(CT)	-0.03	K	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-S							Weight: 176 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
C-T: 2x3 SPF No.2
OTHERS 2x3 SPF No.2

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

REACTIONS. All bearings 26-10-0.
(lb) - Max Horz B=291(LC 38)
Max Uplift All uplift 100 lb or less at joint(s) J, V except I=-1199(LC 35), B=-704(LC 32), T=-2021(LC 40), N=-900(LC 40)
Max Grav All reactions 250 lb or less at joint(s) J, K, L, M, O, Q, R, S, U, V, W except I=1231(LC 28), B=844(LC 29), T=2060(LC 53), N=1176(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-2361/2145, C-E=-1374/1337, E-G=-1682/1537, G-H=-1756/1658, H-I=-302/52
BOT CHORD B-W=-2234/2014, V-W=-1074/970, U-V=-594/442, T-U=-352/288, S-T=-1564/1483, R-S=-1294/1213, Q-R=-814/733, O-Q=-367/286, N-O=-593/512, M-N=-1104/1049, L-M=-897/843, K-L=-417/389, J-K=-725/670, I-J=-1170/1115
WEBS C-T=-559/189, E-T=-2629/2583, E-N=-1389/1425, G-N=-1915/1874, G-I=-1577/1612

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) J, V except (jt=lb) I=1199, B=704, T=2021, N=900.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

Continued on page 2

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

NOTES-

13) This truss has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 26-10-0 for 240.0 plf.

14) No notches allowed in overhang and 10408 from left end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	U1	GABLE	10	1	U1488964
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:07 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

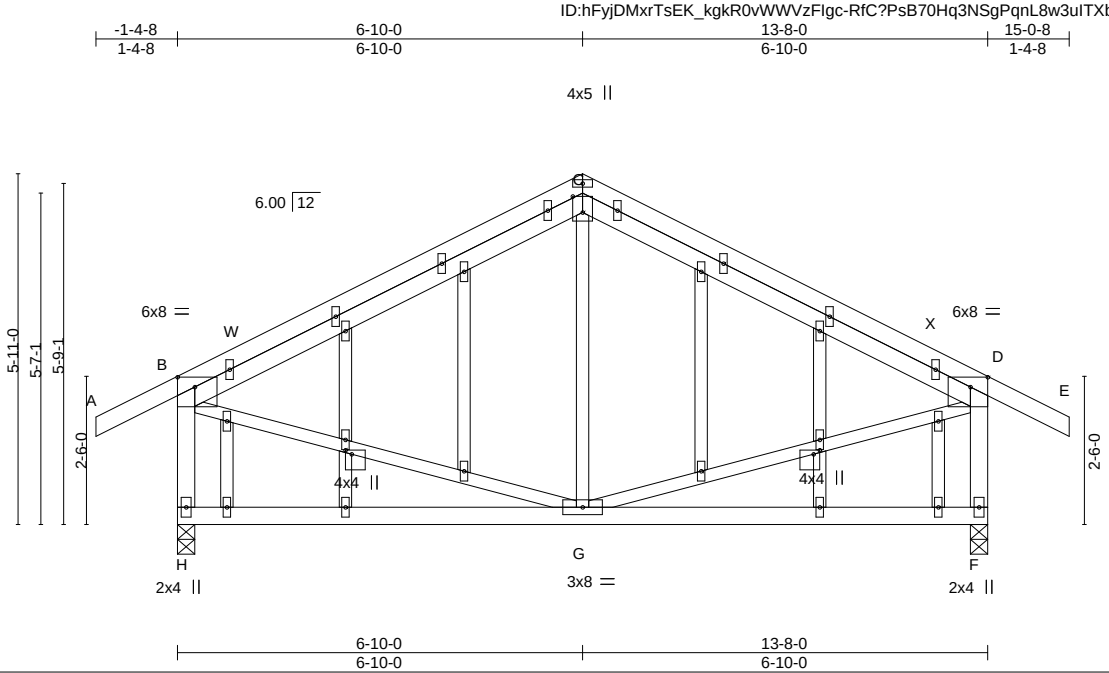


Plate Offsets (X,Y)-- [B:0-3-8,0-2-0], [C:0-3-4,0-2-0], [D:0-3-8,0-2-0], [K:0-0-13,0-1-4], [T:0-0-13,0-1-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.04	F-G	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.09	F-G	>999	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	F	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.00	G	>999	240	Weight: 86 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x3 SPF No.2 *Except* B-H,D-F: 2x4 SPF No.2
OTHERS	2x3 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-11-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) H=0-3-8, F=0-3-8
Max Horz H=-95(LC 8)
Max Uplift H=-77(LC 10), F=-77(LC 11)
Max Grav H=836(LC 17), F=836(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-643/66, C-D=-643/66, B-H=-771/103, D-F=-771/103
WEBS B-G=0/413, D-G=0/413

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) H, F.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) No notches allowed in overhang and 10408 from left end and 10408 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	U2	GABLE	10	1	U1488965
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:08 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

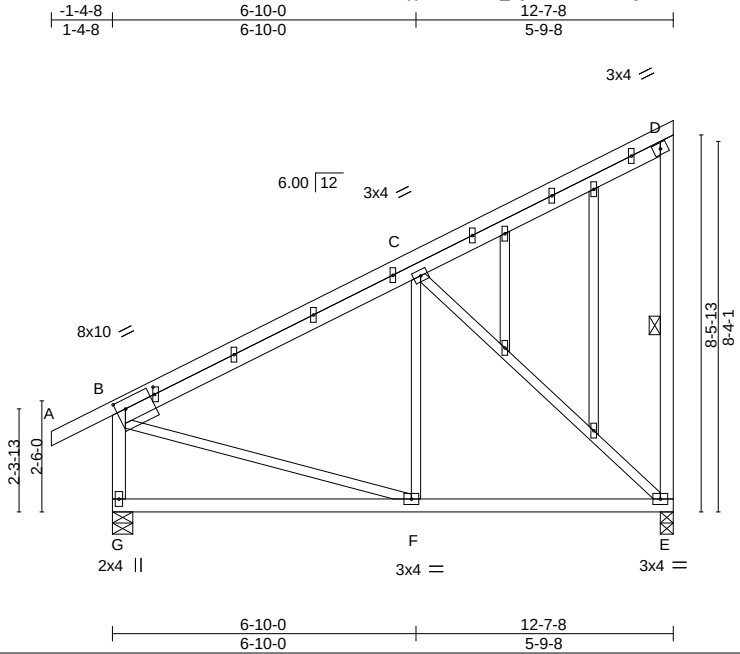


Plate Offsets (X,Y)-- [B:0-2-8,0-2-8], [B:0-2-0,0-0-7]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.05	F-G	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.10	F-G	>999	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.01	E	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS		Wind(LL)	-0.02	E-F	>999	240	Weight: 82 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
D-E,B-G: 2x4 SPF No.2
OTHERS 2x3 SPF No.2

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

REACTIONS. (size) G=0-5-8, E=0-3-8
Max Horz G=253(LC 9)
Max Uplift G=-65(LC 10), E=-107(LC 10)
Max Grav G=749(LC 17), E=739(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-621/41, D-E=-262/51, B-G=-685/95
BOT CHORD E-F=-101/474
WEBS C-E=-631/138, B-F=0/431

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) G except (jt=lb) E=107.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) No notches allowed in overhang and 10408 from left end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	U3	Monopitch	20	1	U1488966
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:09 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

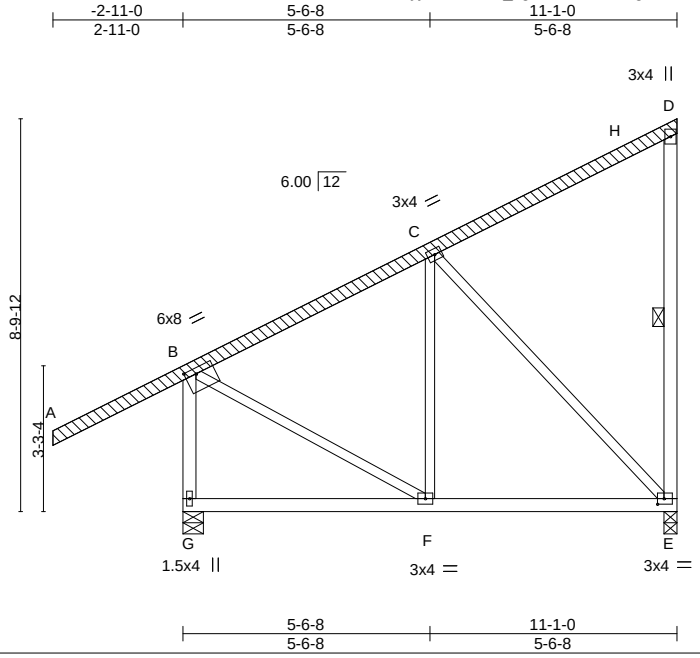


Plate Offsets (X,Y)-- [B:0-3-0,0-1-8], [E:0-1-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.02	E-F	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.04	E-F	>999	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.67	Horz(CT)	-0.00	E	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	-0.02	E-F	>999	240	Weight: 77 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
D-E,B-G: 2x4 SPF No.2
OTHERS 2x4 SPF No.2
LBR SCAB A-D 2x4 SPF No.2 one side

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

REACTIONS. (size) G=0-5-8, E=0-3-8
Max Horz G=274(LC 7)
Max Uplift G=-83(LC 10), E=-103(LC 7)
Max Grav G=817(LC 17), E=629(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-439/35, D-E=-260/51, B-G=-772/107
BOT CHORD F-G=-256/88, E-F=-114/311
WEBS C-E=-443/116, B-F=0/379

NOTES-
1) Attached 15-9-9 scab A to D, front face(s) 2x4 SPF No.2 with 1 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 2-5-1 from end at joint A, nail 1 row(s) at 4" o.c. for 2-0-0; starting at 8-5-8 from end at joint A, nail 1 row(s) at 7" o.c. for 2-0-0; starting at 13-5-14 from end at joint A, nail 1 row(s) at 7" o.c. for 2-0-0.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) G except (jt=lb) E=103.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

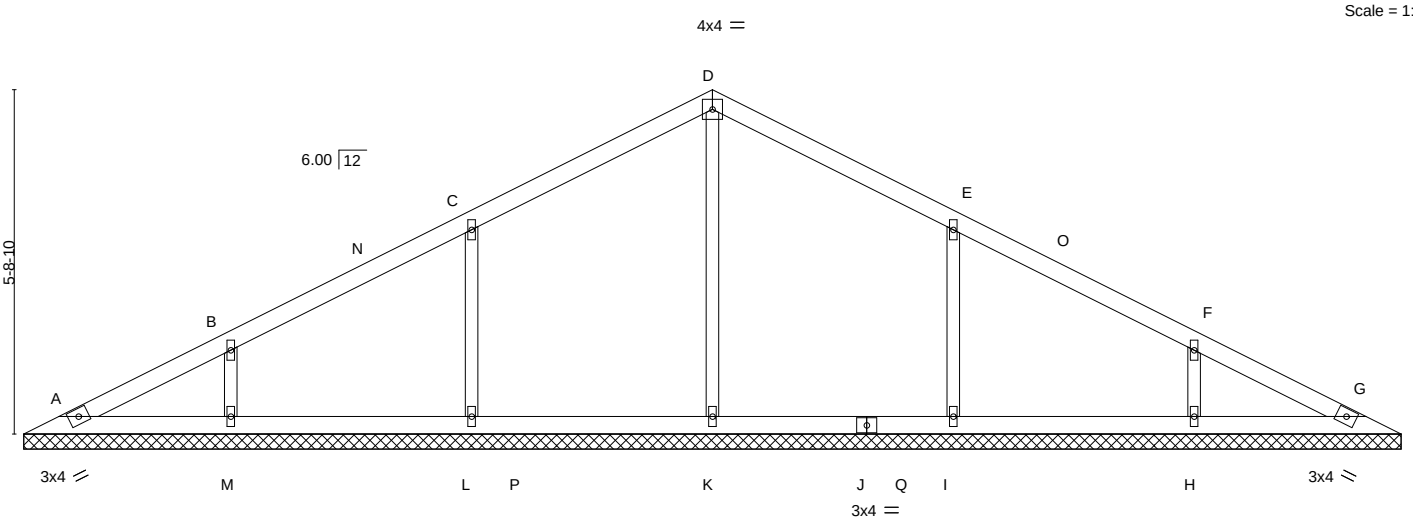
PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	VH1	Valley	22	1	U1488967
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:11 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

11-5-4 / 11-5-4 — 22-10-8 / 11-5-4

Scale = 1:38.3



22-10-8 / 22-10-8

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.00	G	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-S							Weight: 65 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x3 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. All bearings 22-10-8.
(lb) - Max Horz A=-71(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) A, L, M, I, H
Max Grav All reactions 250 lb or less at joint(s) A, G except K=403(LC 3), L=551(LC 16), M=357(LC 2), I=551(LC 17), H=357(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-L=-470/129, B-M=-271/106, E-I=-470/129, F-H=-271/106

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, L, M, I, H.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

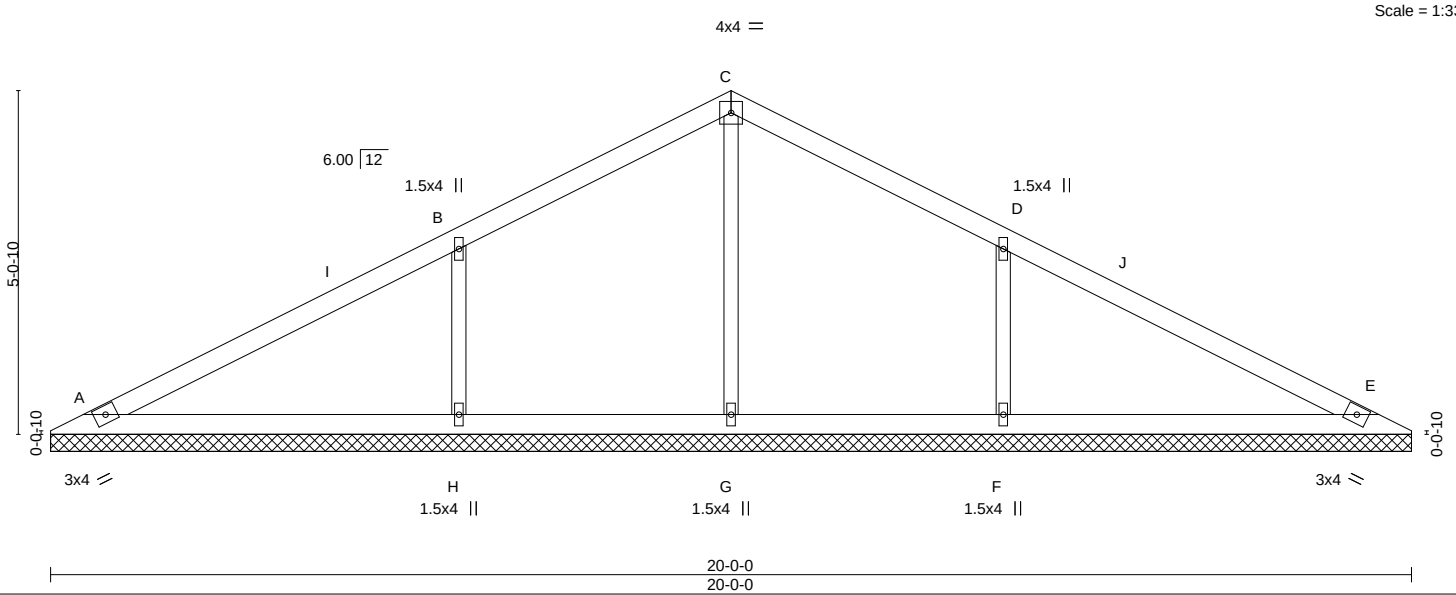
PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	VH2	Valley	22	1	U1488968
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:12 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

10-0-0 20-0-0
10-0-0 10-0-0

Scale = 1:33.9



20-0-0
20-0-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	E	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-S							Weight: 55 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x3 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. All bearings 20-0-0.
(lb) - Max Horz A=62(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) A, E except H=-117(LC 10), F=-117(LC 11)
Max Grav All reactions 250 lb or less at joint(s) A, E, G except H=704(LC 16), F=704(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-H=-572/165, D-F=-573/165

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) A, E except (jt=lb) H=117, F=117.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

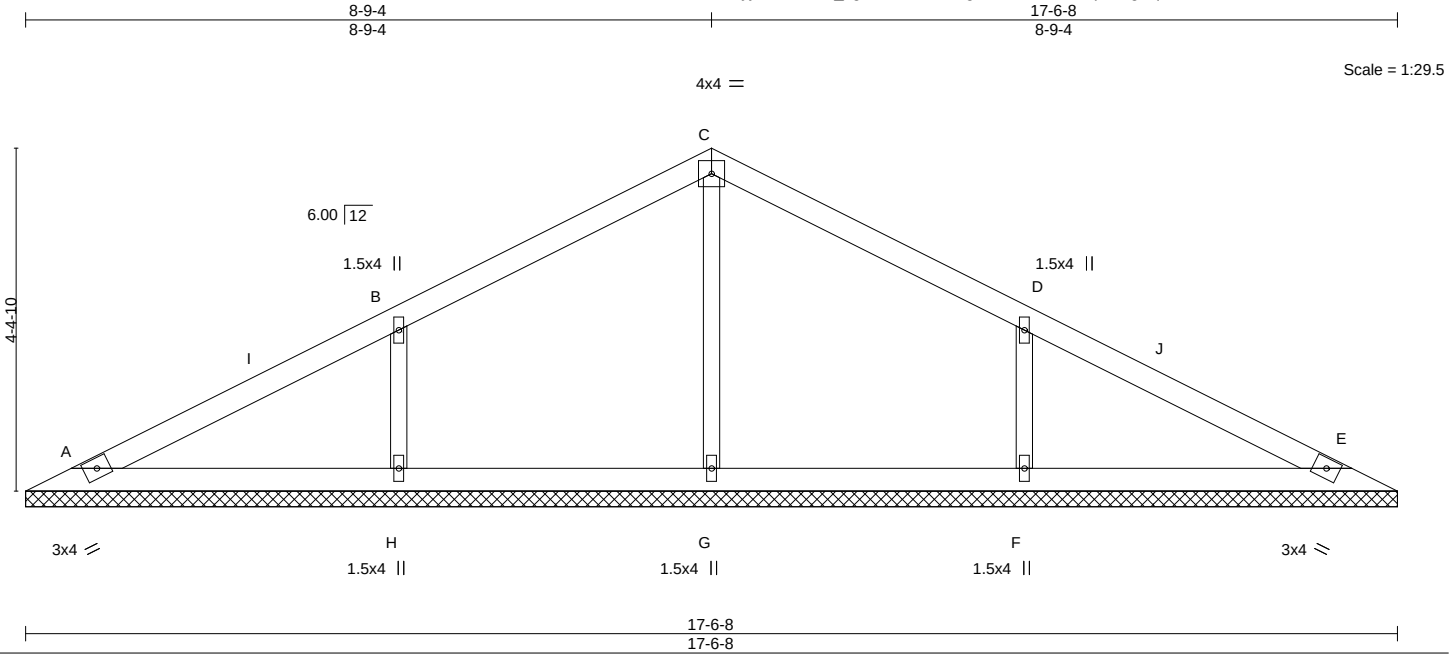
May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	VH3	Valley	22	1	U1488969
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:14 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	E	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 47 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x3 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. All bearings 17-6-8.
(lb) - Max Horz A=53(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) A, E, H, F
Max Grav All reactions 250 lb or less at joint(s) A, E except G=298(LC 16), H=604(LC 16), F=604(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-H=-502/139, D-F=-502/139

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) A, E, H, F.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

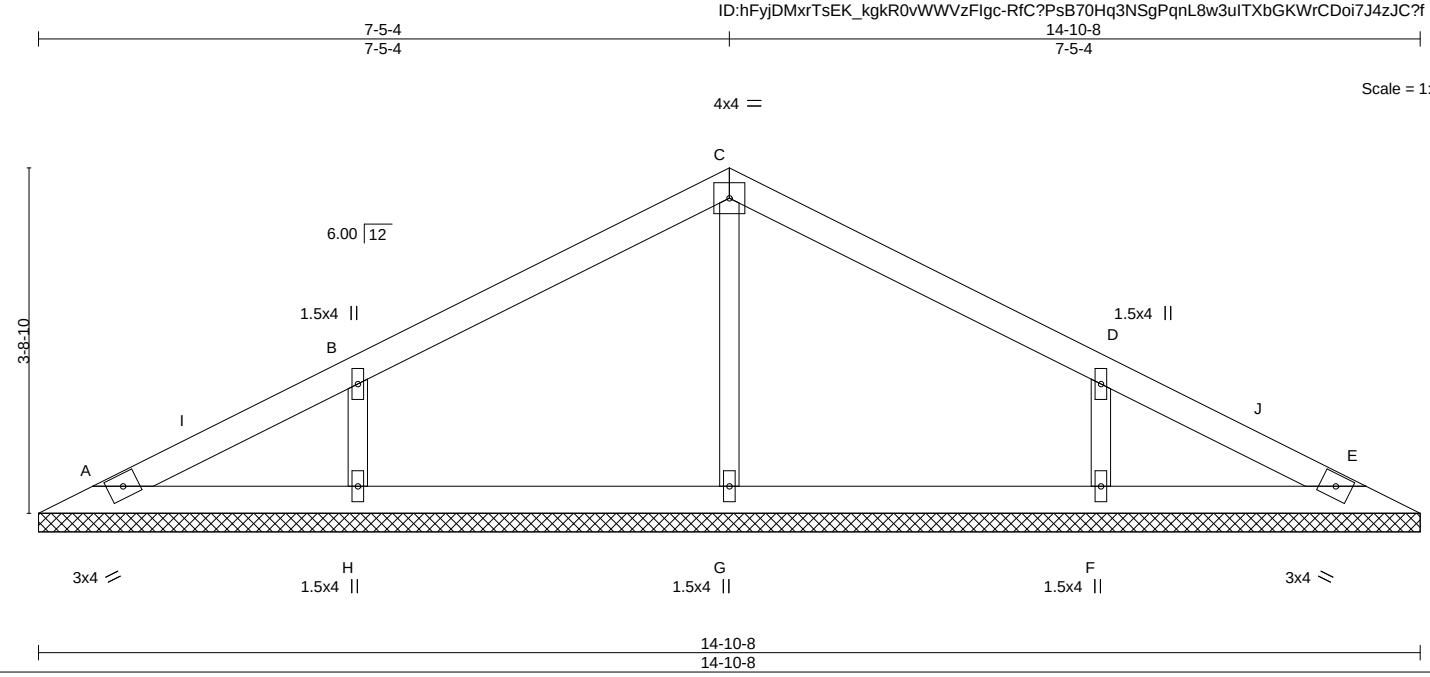
May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	VH4	Valley	22	1	U1488970
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:15 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	E	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-S							Weight: 39 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x3 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. All bearings 14-10-8.
(lb) - Max Horz A=-45(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) A, H, F
Max Grav All reactions 250 lb or less at joint(s) A, E except G=326(LC 16), H=526(LC 16), F=526(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-H=-449/119, D-F=-449/119

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) A, H, F.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

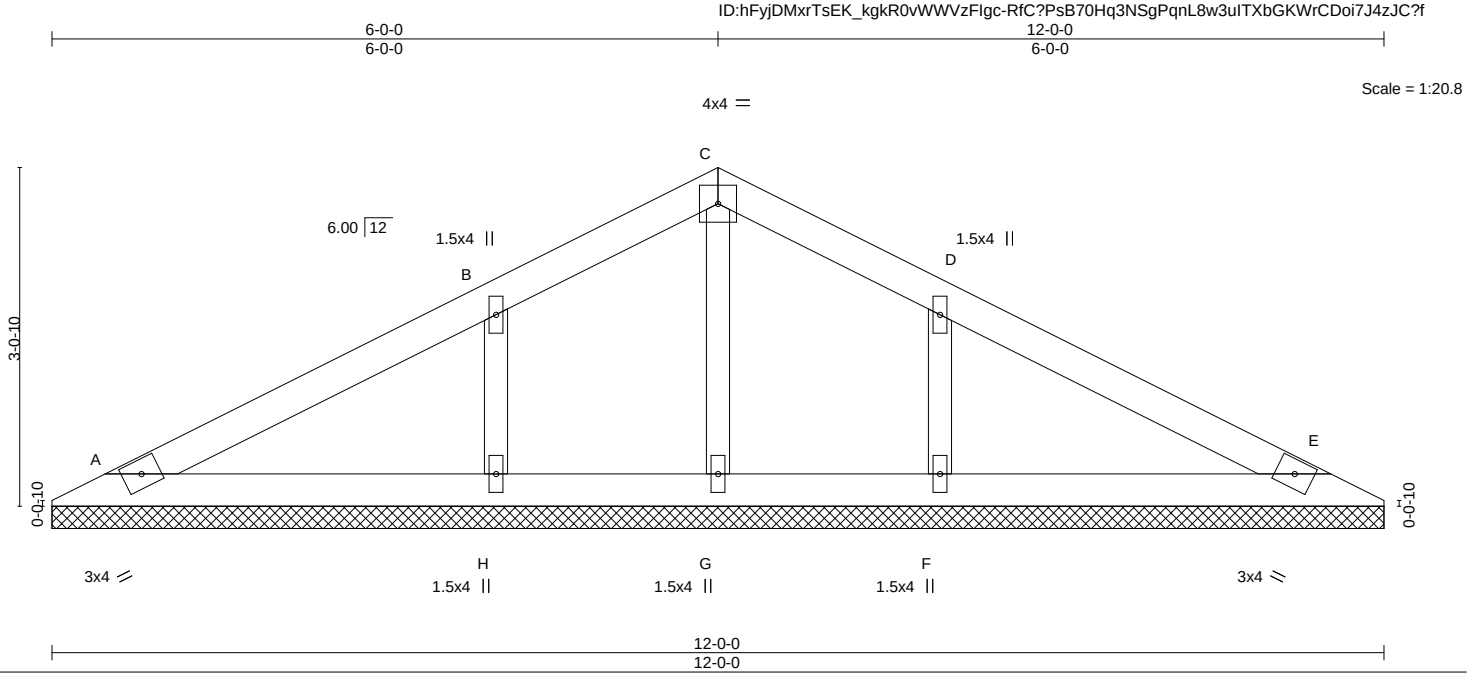
May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	VH5	GABLE	22	1	U1488971
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:16 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	E	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-S							Weight: 32 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x3 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. All bearings 12-0-0.
(lb) - Max Horz A=36(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) A, E, H, F
Max Grav All reactions 250 lb or less at joint(s) A, E, G except H=483(LC 16), F=483(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-H=-391/99, D-F=-391/99

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) A, E, H, F.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

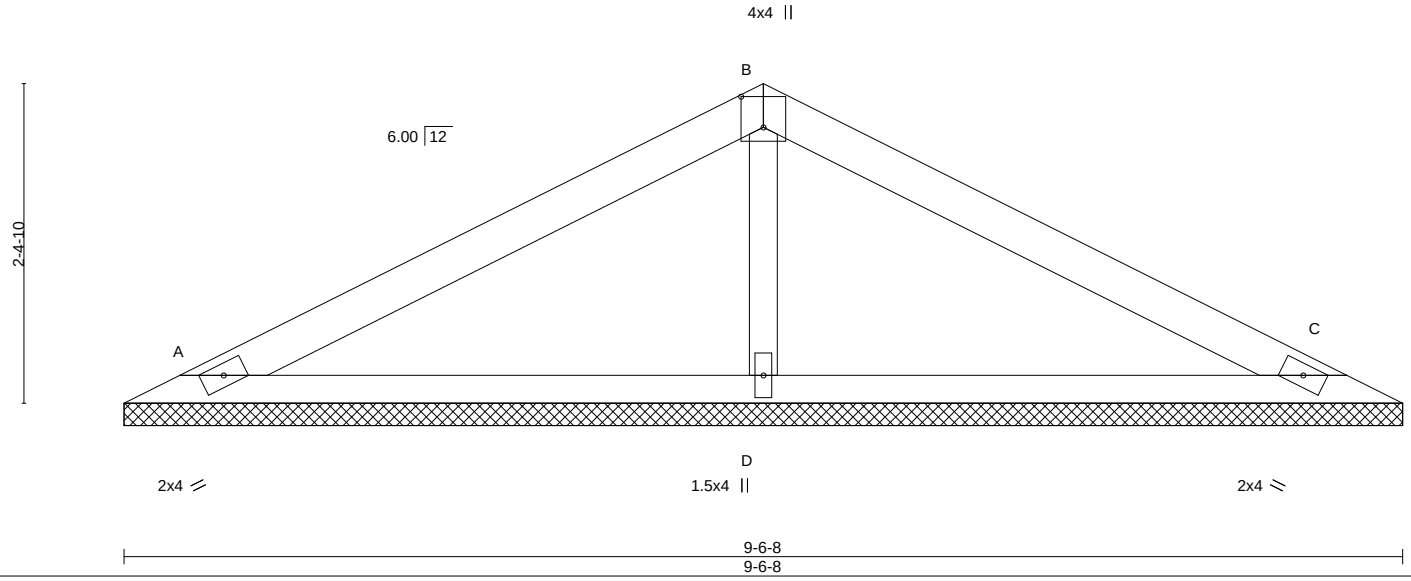
PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	VH6	Valley	22	1	U1488972
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:17 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

4-9-4 / 4-9-4 — 9-6-8 / 4-9-4

Scale = 1:17.2



9-6-8 / 9-6-8

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.28	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-S							Weight: 20 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x3 SPF No.2
OTHERS 2x3 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. (size) A=9-6-8, C=9-6-8, D=9-6-8
Max Horz A=-28(LC 15)
Max Uplift A=-27(LC 10), C=-33(LC 11), D=-12(LC 10)
Max Grav A=262(LC 16), C=262(LC 17), D=424(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-D=-309/57

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) A, C, D.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

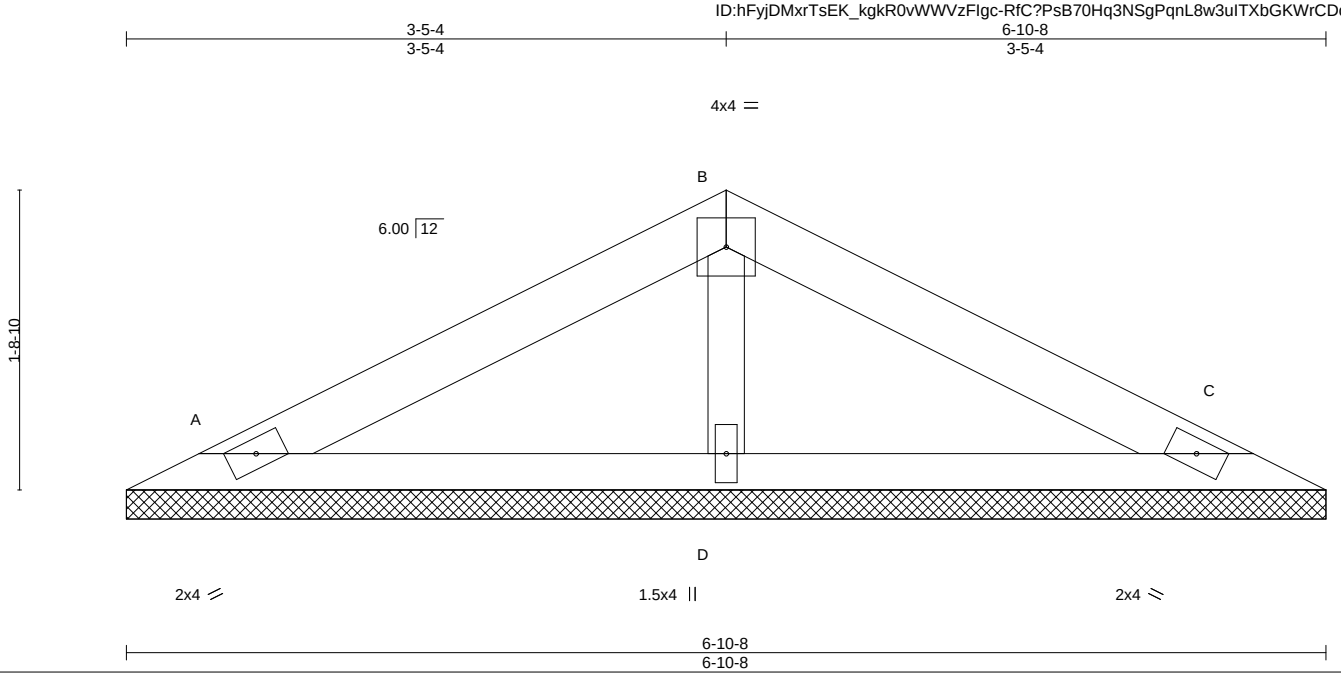
May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	VH7	Valley	22	1	U1488973
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:18 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 14 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x3 SPF No.2
OTHERS 2x3 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. (size) A=6-10-8, C=6-10-8, D=6-10-8
Max Horz A=-19(LC 15)
Max Uplift A=-23(LC 10), C=-27(LC 11)
Max Grav A=183(LC 16), C=183(LC 17), D=264(LC 1)

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

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) A, C.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	VH8	Valley	22	1	U1488974
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:19 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

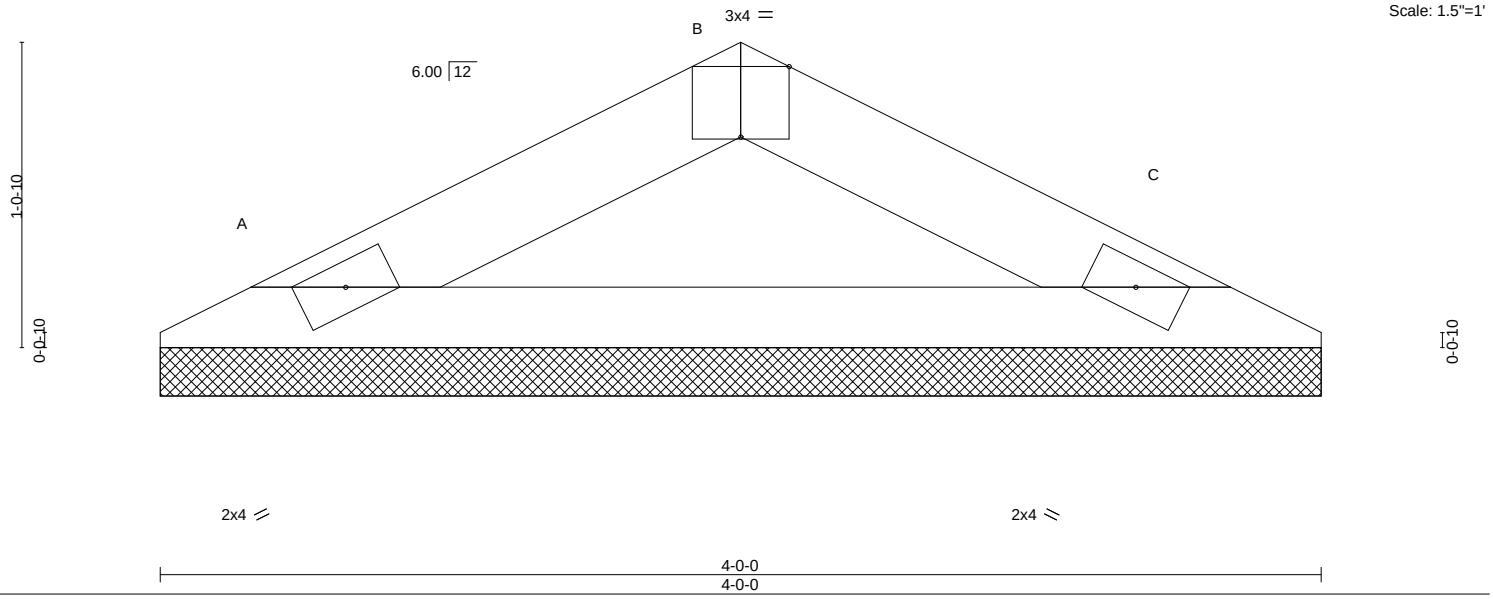


Plate Offsets (X,Y)-- [B:0-2-0,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 8 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) A=4-0-0, C=4-0-0
Max Horz A=-10(LC 15)
Max Uplift A=-12(LC 10), C=-12(LC 11)
Max Grav A=159(LC 16), C=159(LC 17)

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

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) A, C.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

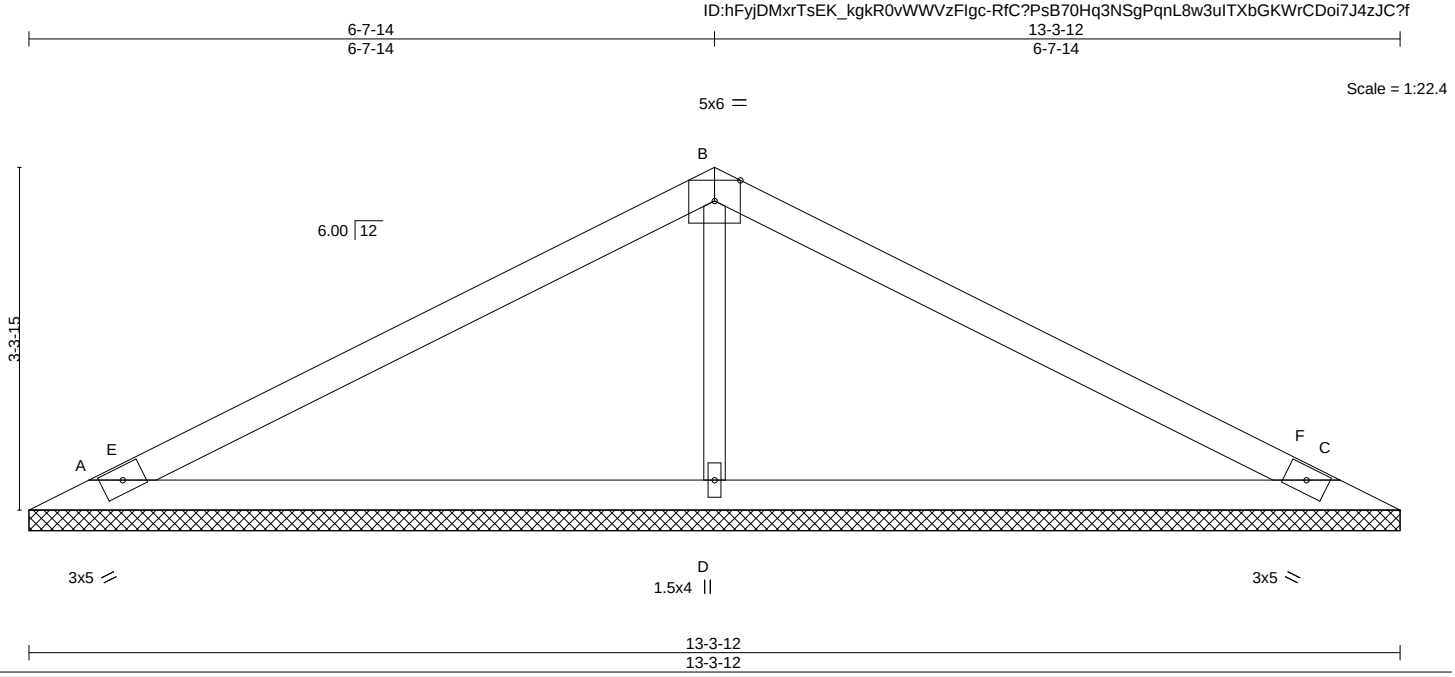
May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	VR1	Valley	1	1	U1488975
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:20 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.32	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-S							Weight: 33 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) A=13-3-12, C=13-3-12, D=13-3-12
Max Horz A=-39(LC 11)
Max Uplift A=-38(LC 10), C=-45(LC 11), D=-18(LC 10)
Max Grav A=365(LC 16), C=365(LC 17), D=610(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-D=-425/79

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) A, C, D.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

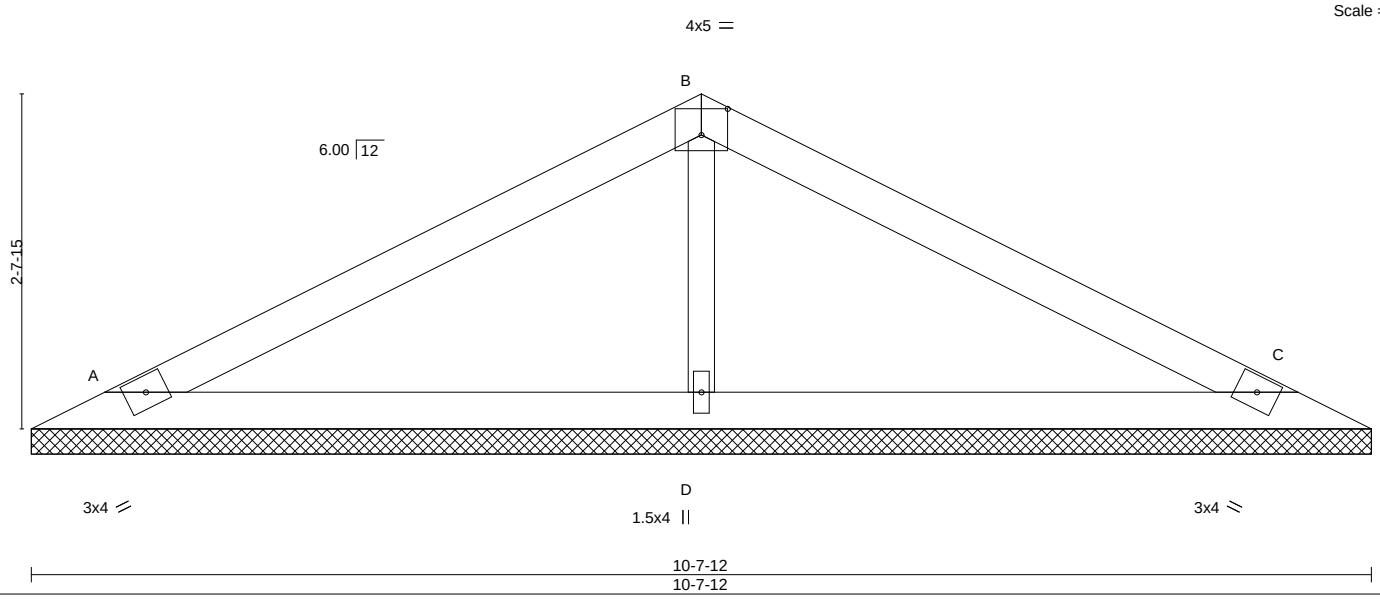
PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	VR2	Valley	1	1	U1488976
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:21 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

5-3-14 | 10-7-12
5-3-14 | 5-3-14

Scale = 1:18.3



10-7-12
10-7-12

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-S							Weight: 26 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x3 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. (size) A=10-7-12, C=10-7-12, D=10-7-12
Max Horz A=31(LC 14)
Max Uplift A=-29(LC 10), C=-35(LC 11), D=-14(LC 10)
Max Grav A=296(LC 16), C=296(LC 17), D=474(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-D=-329/61

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) A, C, D.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

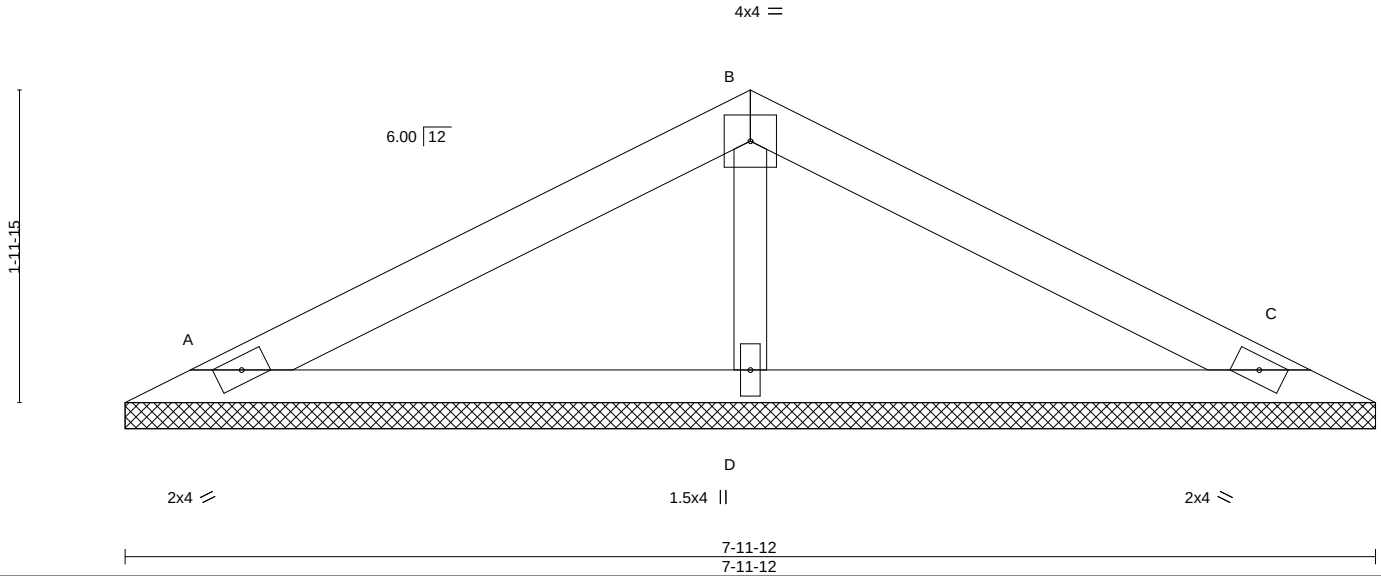
PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	VR3	Valley	1	1	U1488977
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:23 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3-11-14 | 7-11-12
3-11-14 | 3-11-14

Scale = 1:14.7



7-11-12
7-11-12

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.20	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x3 SPF No.2
OTHERS 2x3 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. (size) A=7-11-12, C=7-11-12, D=7-11-12
Max Horz A=23(LC 10)
Max Uplift A=-27(LC 10), C=-32(LC 11)
Max Grav A=223(LC 16), C=223(LC 17), D=314(LC 1)

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

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) A, C.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

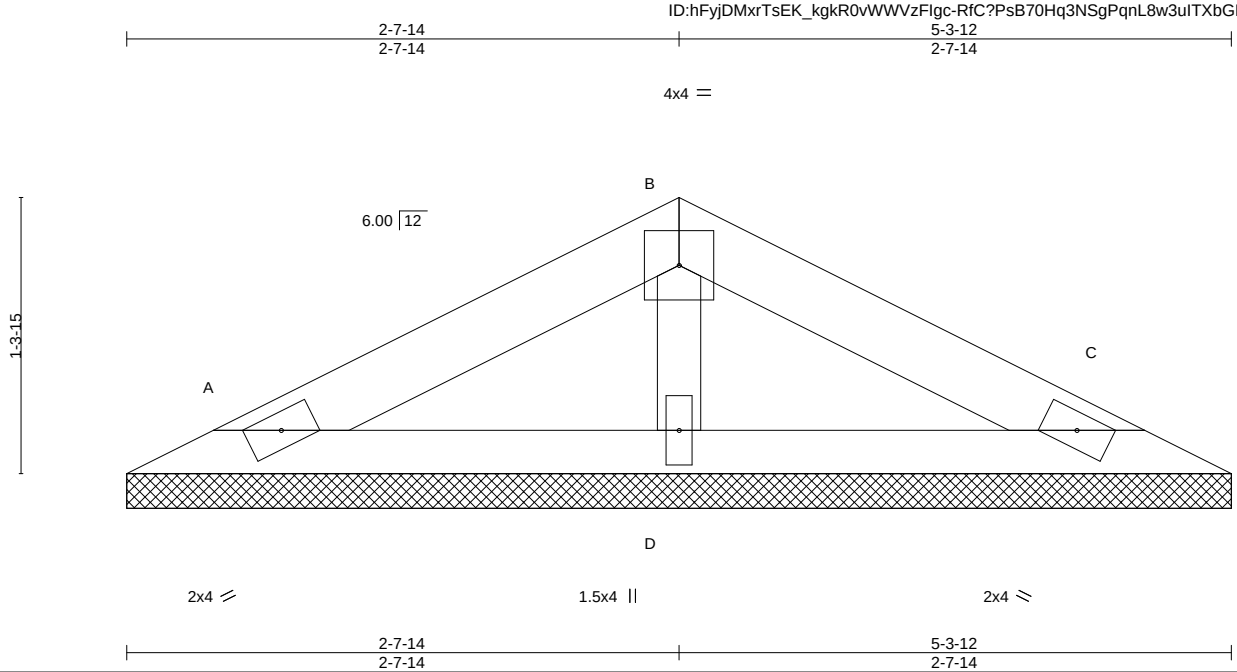
May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	VR4	Valley	1	1	U1488978
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:24 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-P							Weight: 11 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x3 SPF No.2
WEBS 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) A=5-3-12, C=5-3-12, D=5-3-12
Max Horz A=14(LC 14)
Max Uplift A=-17(LC 10), C=-20(LC 11)
Max Grav A=129(LC 16), C=129(LC 17), D=193(LC 1)

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

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) A, C.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

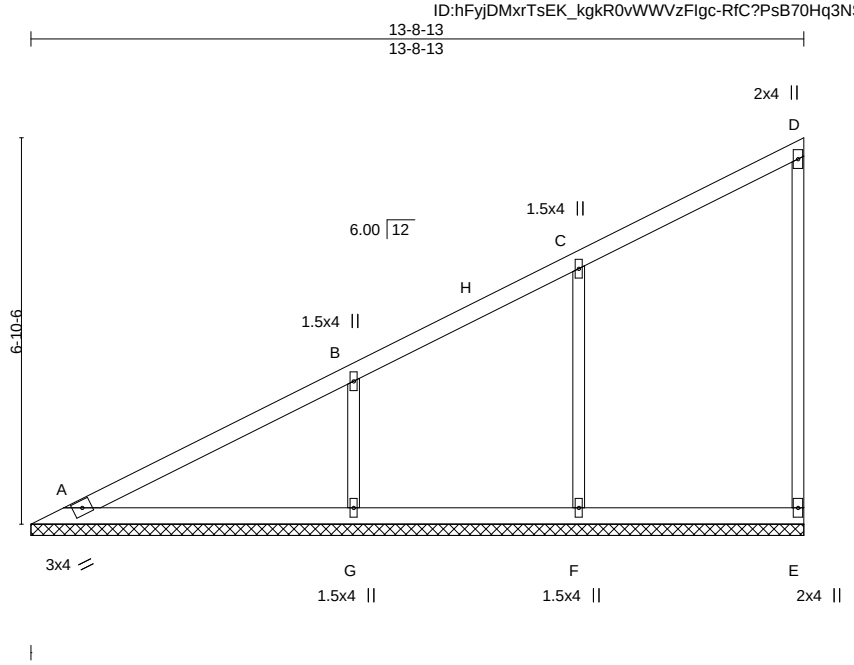
May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	VU1	Valley	20	1	U1488979
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:25 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.20	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	-0.00	E	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-S							Weight: 43 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x3 SPF No.2
OTHERS	2x3 SPF No.2

BRACING-

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

REACTIONS. All bearings 13-8-13.
(lb) - Max Horz A=201(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) E, F except G=-103(LC 10)
Max Grav All reactions 250 lb or less at joint(s) A, E except F=528(LC 3), G=509(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-F=-446/107, B-G=-381/150

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E, F except (jt=lb) G=103.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	VU2	Valley	20	1	U1488980
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:26 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

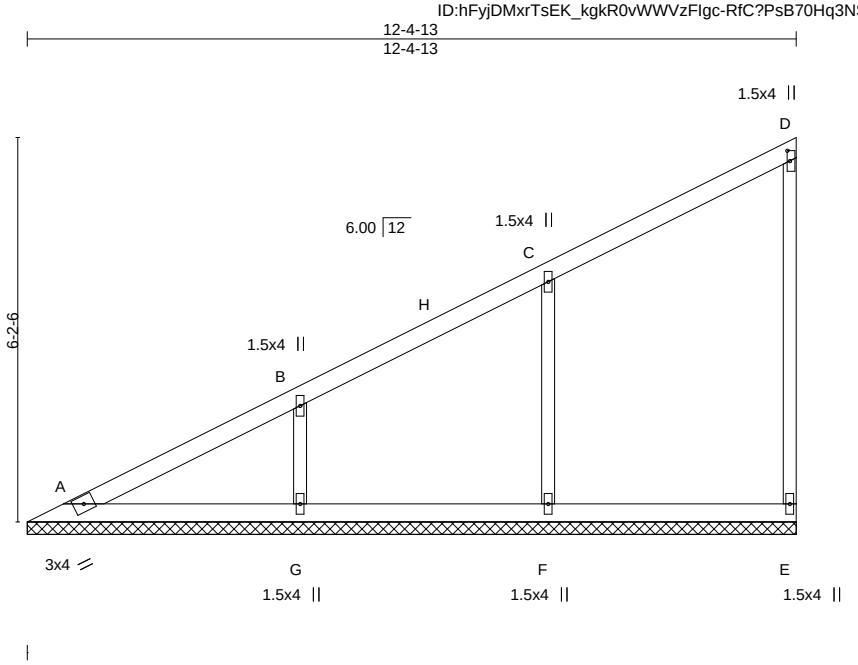


Plate Offsets (X,Y)-- [D:0-2-0,0-0-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	-0.00	E	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-S							Weight: 38 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2
OTHERS 2x3 SPF No.2

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

REACTIONS. All bearings 12-4-13.
(lb) - Max Horz A=180(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) E, F, G
Max Grav All reactions 250 lb or less at joint(s) A, E except F=562(LC 3), G=409(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-F=-469/118, B-G=-310/123

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E, F, G.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

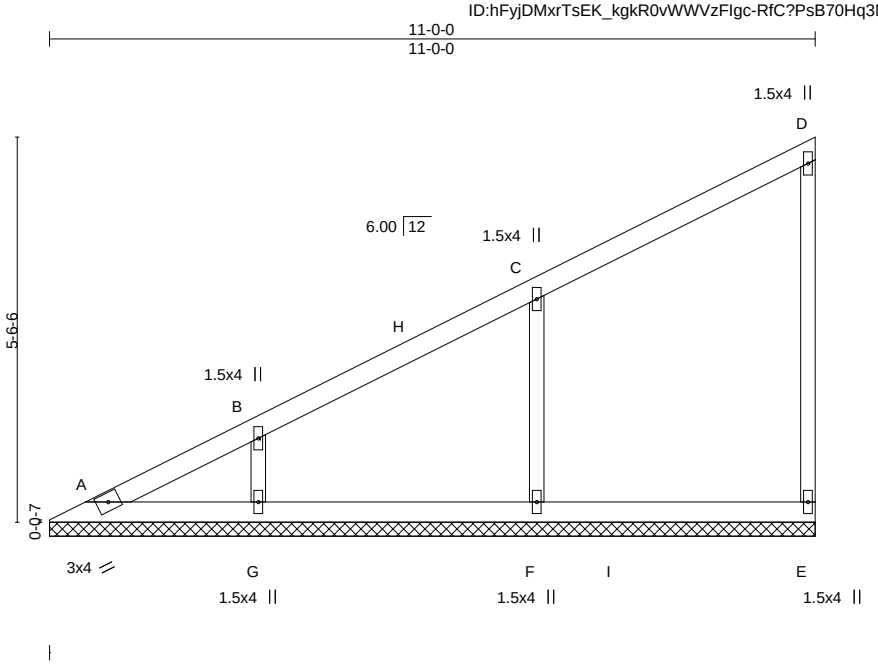
May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	VU3	Valley	20	1	U1488981
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:27 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	-0.00	E	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-S							Weight: 33 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x3 SPF No.2
OTHERS	2x3 SPF No.2

BRACING-

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

REACTIONS. All bearings 11-0-0.
(lb) - Max Horz A=159(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) E, F, G
Max Grav All reactions 250 lb or less at joint(s) A, E except F=569(LC 16), G=333(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-F=-481/125, B-G=-256/103

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E, F, G.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

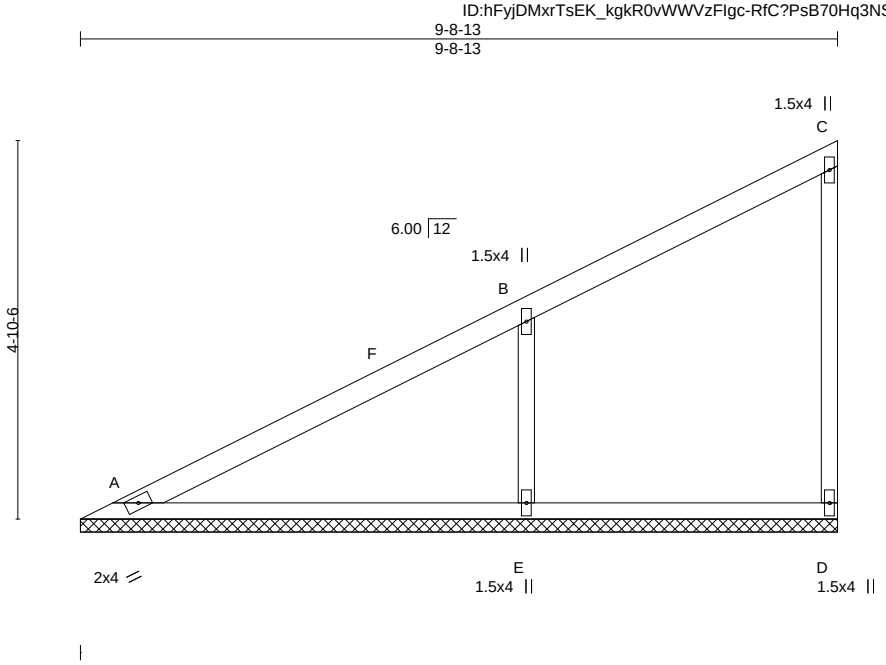
May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	VU4	Valley	20	1	U1488982
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:28 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.35	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	-0.00	D	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-S							Weight: 25 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x3 SPF No.2
WEBS	2x3 SPF No.2
OTHERS	2x3 SPF No.2

BRACING-

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

REACTIONS. (size) A=9-8-13, D=9-8-13, E=9-8-13
Max Horz A=140(LC 7)
Max Uplift D=-19(LC 7), E=-110(LC 10)
Max Grav A=198(LC 16), D=182(LC 16), E=688(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-E=-571/157

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) D except (jt=lb) E=110.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

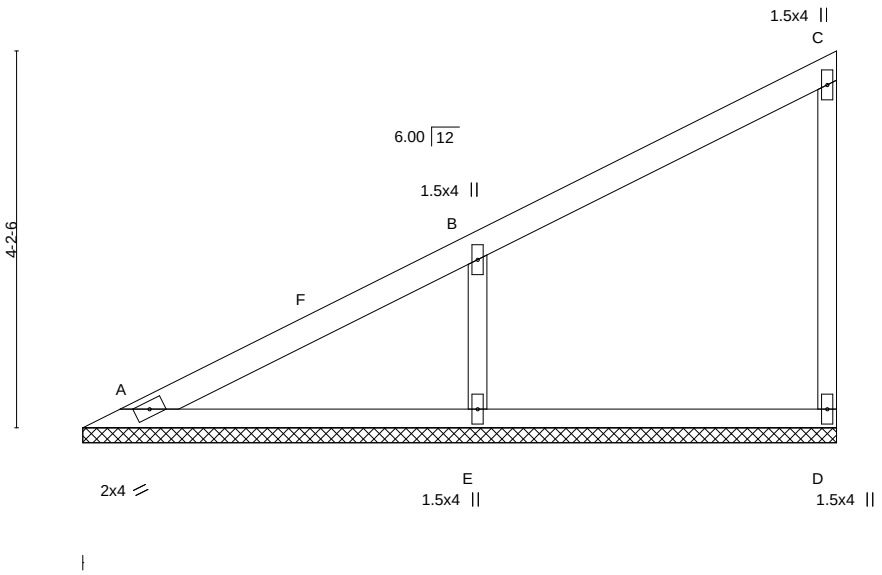
PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	VU5	Valley	20	1	U1488983
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:29 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

8-4-13
8-4-13

Scale = 1:25.7



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.25	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	-0.00	D	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 21 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x3 SPF No.2
WEBS	2x3 SPF No.2
OTHERS	2x3 SPF No.2

BRACING-

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

REACTIONS. (size) A=8-4-13, D=8-4-13, E=8-4-13
Max Horz A=120(LC 7)
Max Uplift D=-19(LC 7), E=-94(LC 10)
Max Grav A=136(LC 16), D=199(LC 16), E=607(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-E=-510/142

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) D, E.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

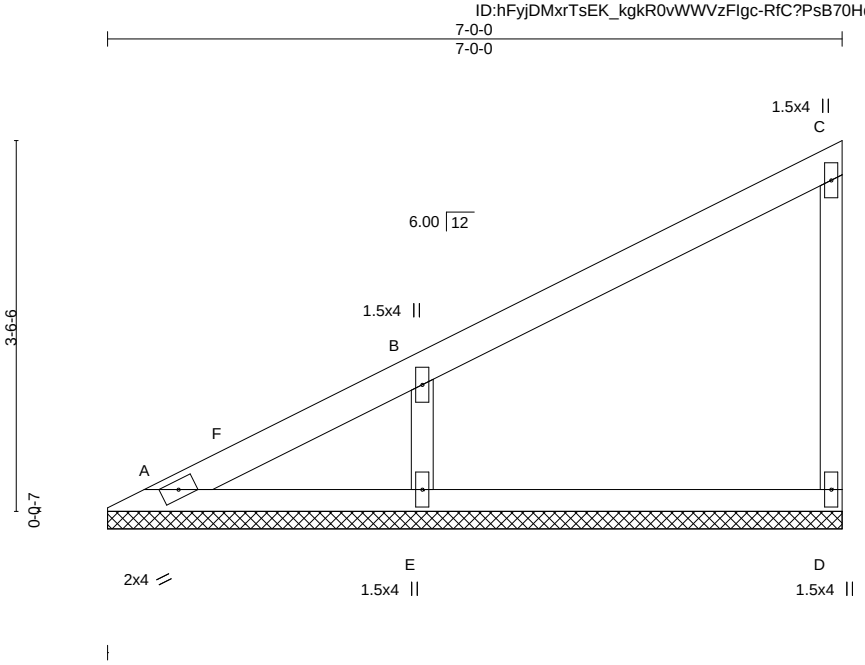
May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	VU6	Valley	20	1	U1488984
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:30 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	-0.00	D	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x3 SPF No.2
WEBS	2x3 SPF No.2
OTHERS	2x3 SPF No.2

BRACING-

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

REACTIONS. (size) A=7-0-0, D=7-0-0, E=7-0-0
Max Horz A=99(LC 7)
Max Uplift D=-19(LC 10), E=-81(LC 10)
Max Grav A=74(LC 20), D=209(LC 16), E=543(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-E=-460/122

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) D, E.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

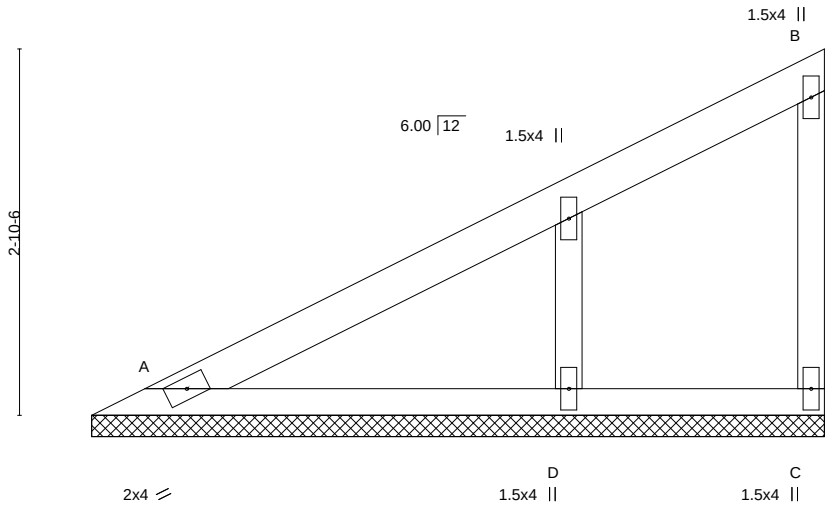
PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	VU7	GABLE	20	1	U1488985
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:31 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

5-8-13
5-8-13

Scale = 1:18.0



LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	25.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	C	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 14 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x3 SPF No.2
WEBS 2x3 SPF No.2
OTHERS 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) A=5-8-13, C=5-8-13, D=5-8-13
Max Horz A=79(LC 9)
Max Uplift A=-33(LC 10), C=-61(LC 10)
Max Grav A=311(LC 16), C=294(LC 16), D=134(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-286/65

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) A, C.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

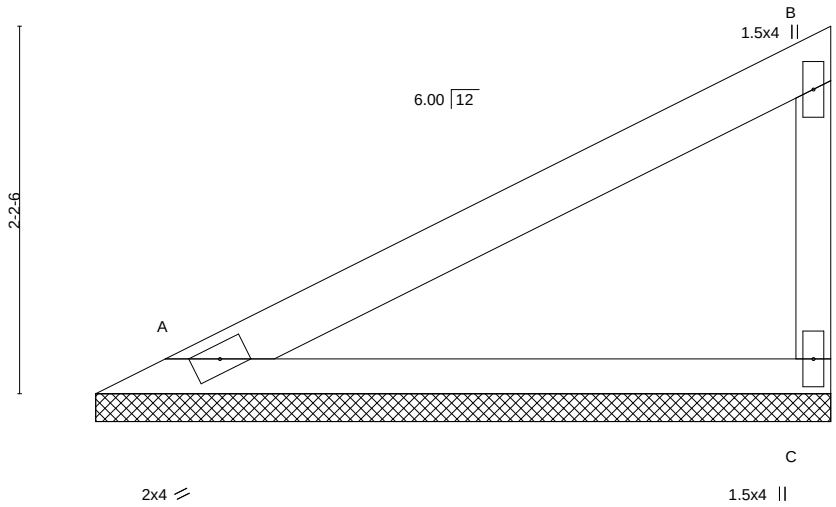
PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	VU8	Valley	20	1	U1488986
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:32 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

4-4-13
4-4-13

Scale = 1:13.8



LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	25.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.29	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	C	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 10 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x3 SPF No.2
WEBS 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) A=4-4-13, C=4-4-13
Max Horz A=58(LC 9)
Max Uplift A=-15(LC 10), C=-29(LC 10)
Max Grav A=239(LC 16), C=239(LC 16)

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

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) A, C.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

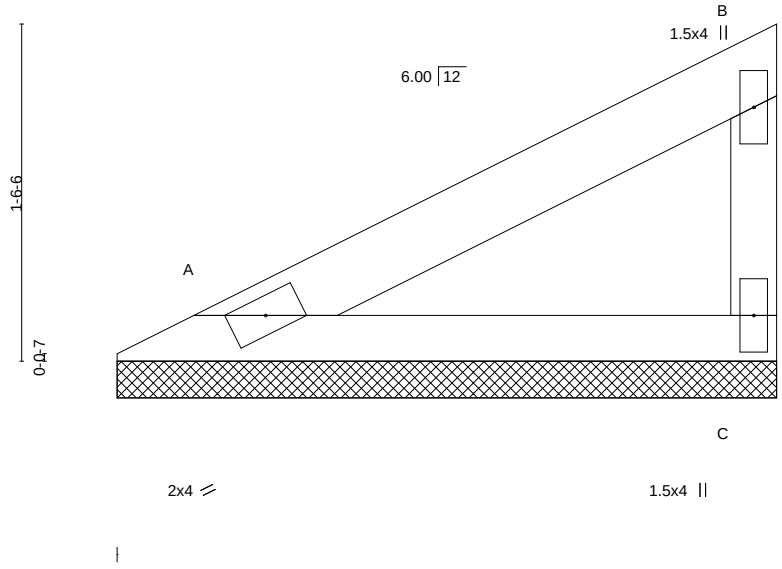
PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	VU9	Valley	20	1	U1488987
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:33 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3-0-0
3-0-0

Scale = 1:10.5



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
TCDL	12.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	C	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-P							Weight: 7 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x3 SPF No.2
WEBS 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) A=3-0-0, C=3-0-0
Max Horz A=37(LC 7)
Max Uplift A=-10(LC 10), C=-19(LC 10)
Max Grav A=147(LC 16), C=147(LC 16)

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

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) A, C.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	W1	GABLE	10	1	U1488988
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:34 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

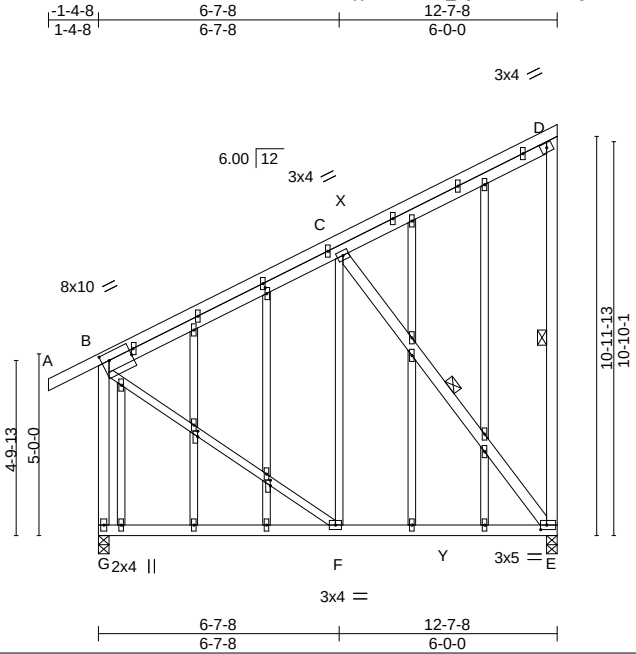


Plate Offsets (X,Y)-- [B:0-2-0,0-0-7], [B:0-2-8,0-2-8], [E:0-2-0,0-1-8], [P:0-1-13,0-0-0], [Q:0-2-0,0-0-8], [S:0-1-13,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.05	E-F	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.09	F-G	>999	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.24	Horz(CT)	-0.01	E	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	-0.04	E-F	>999	240	Weight: 115 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
C-F,B-F: 2x3 SPF No.2
OTHERS 2x3 SPF No.2

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

REACTIONS. (size) G=0-3-8, E=0-3-8
Max Horz G=323(LC 7)
Max Uplift G=-60(LC 10), E=-141(LC 7)
Max Grav G=754(LC 21), E=741(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-469/36, D-E=-273/56, B-G=-689/88
BOT CHORD F-G=-299/136, E-F=-140/347
WEBS C-E=-544/134, B-F=-19/443

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) G except (jt=lb) E=141.
11) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
12) No notches allowed in overhang and 10408 from left end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	W2	Monopitch	20	1	U1488989
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:36 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

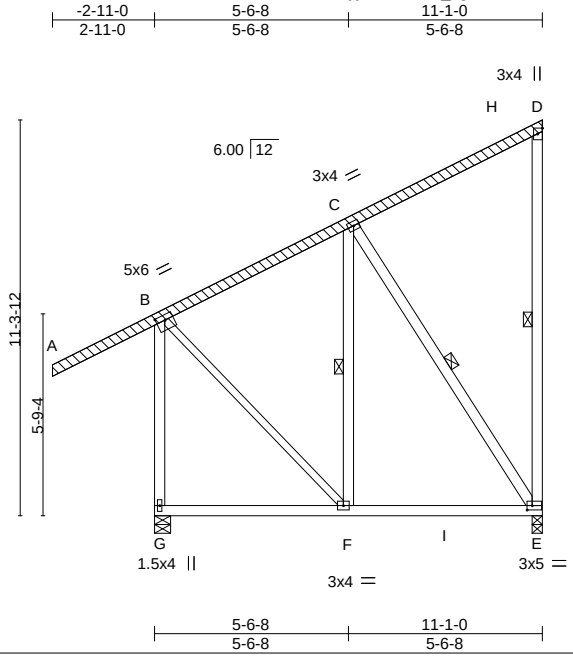


Plate Offsets (X,Y)-- [B:0-3-0,0-1-12], [D:Edge,0-1-12], [E:0-1-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.04	E-F	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.06	E-F	>999	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	-0.00	E	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	-0.03	E-F	>999	240	Weight: 93 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2 *Except*
	B-F: 2x3 SPF No.2
OTHERS	2x4 SPF No.2
LBR SCAB	A-D 2x4 SPF No.2 one side

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt D-E, C-F, C-E

REACTIONS. (size) G=0-5-8, E=0-3-8
Max Horz G=345(LC 7)
Max Uplift G=-79(LC 10), E=-175(LC 7)
Max Grav G=817(LC 17), E=637(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-356/37, D-E=-261/53, B-G=-774/103
BOT CHORD F-G=-322/137, E-F=-153/251
WEBS C-E=-408/155, B-F=-19/412

NOTES-
1) Attached 15-9-9 scab A to D, front face(s) 2x4 SPF No.2 with 1 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 2-5-1 from end at joint A, nail 1 row(s) at 4" o.c. for 2-0-0; starting at 8-5-8 from end at joint A, nail 1 row(s) at 7" o.c. for 2-0-0; starting at 13-5-14 from end at joint A, nail 1 row(s) at 7" o.c. for 2-0-0.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 18.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) G except (jt=lb) E=175.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	X1	GABLE	8	1	U1488990
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:39 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

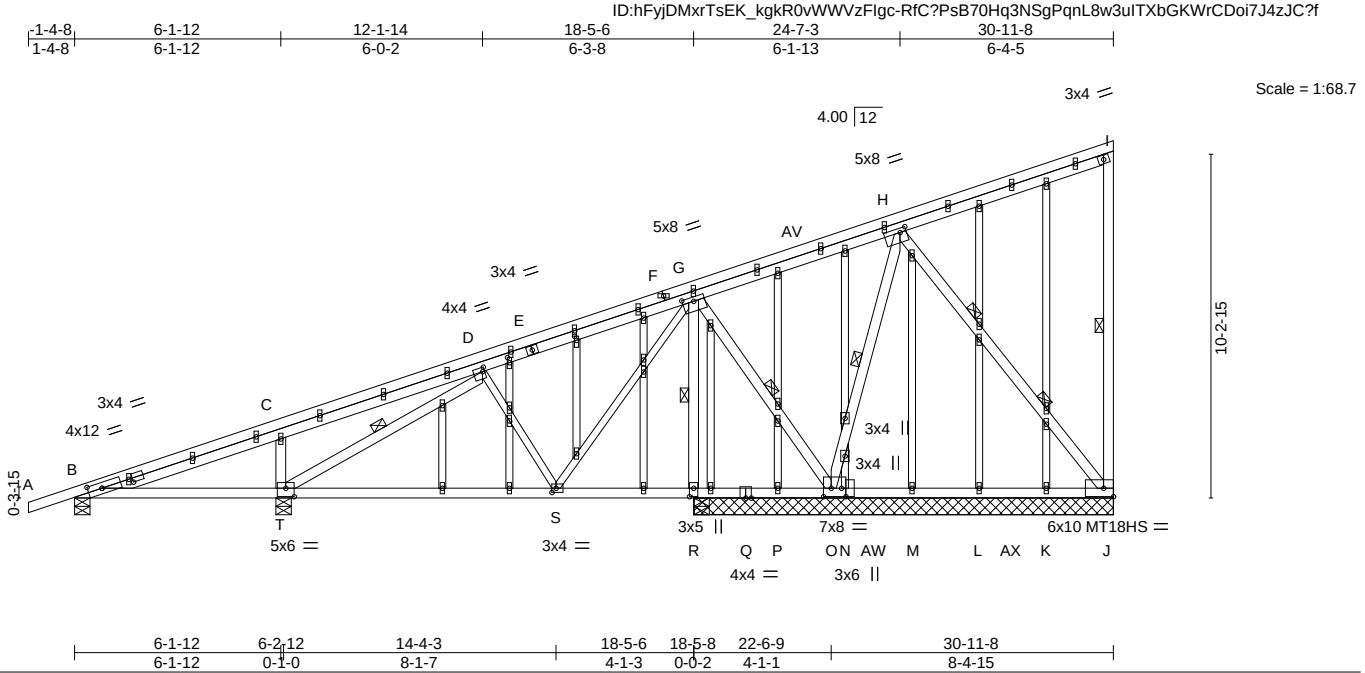


Plate Offsets (X,Y)-- [B:0-5-0,0-2-0], [B:0-11-7,0-1-8], [D:0-0-12,0-1-8], [G:0-4-0,0-1-8], [H:0-2-4,0-1-8], [N:0-3-0,0-1-9], [O:0-2-12,0-3-0], [R:0-3-0,0-1-8], [S:0-1-8,0-1-8], [T:0-3-0,0-3-0], [AM:0-1-7,0-0-12], [AO:0-1-14,0-0-12]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	25.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.10	S-T	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.19	S-T	>793	240	MT18HS	197/144
TCDL	12.0	Rep Stress Incr	YES	WB	0.98	Horz(CT)	-0.11	K	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.07	T-AU	>999	240	Weight: 221 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
D-S,G-S: 2x3 SPF No.2
OTHERS 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-10-8 oc bracing.
WEBS 1 Row at midpt I-J, D-T, G-O, H-O, G-R
2 Rows at 1/3 pts H-J

REACTIONS. All bearings 12-6-0 except (jt=length) B=0-5-8, T=0-5-8.
(lb) - Max Horz B=695(LC 35)
Max Uplift All uplift 100 lb or less at joint(s) K except J=-2155(LC 35), B=-586(LC 32), T=-1144(LC 40), O=-921(LC 40), R=-2317(LC 40)
Max Grav All reactions 250 lb or less at joint(s) K, L, M, N, P except J=2110(LC 52), B=797(LC 29), T=1707(LC 29), O=1235(LC 29), R=2529(LC 53), R=700(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-1550/1315, C-D=-1718/1614, D-G=-1364/1148, G-H=-939/899, H-I=-1746/1646, I-J=-309/54
BOT CHORD B-T=-1524/1369, S-T=-3197/3234, R-S=-3728/3621, P-R=-3669/3594, O-P=-2209/2069, N-O=-3404/3316, M-N=-3160/3072, L-M=-1972/1883, K-L=-755/695, J-K=-1755/1667
WEBS C-T=-462/160, D-T=-2219/2062, D-S=-634/643, G-S=-591/956, G-O=-2560/2584, H-O=-3058/2973, H-J=-2599/2671, G-R=-2457/2311

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) All plates are MT20 plates unless otherwise indicated.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) K except (jt=lb) J=2155, B=586, T=1144, O=921, R=2317.

May 22,2023

Continued on page 2

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

NOTES-

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 has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 18-5-8 to 30-11-8 for 594.4 plf.
14) No notches allowed in overhang and 10408 from left end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	X2	Monopitch	32	1	U1488991
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:41 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

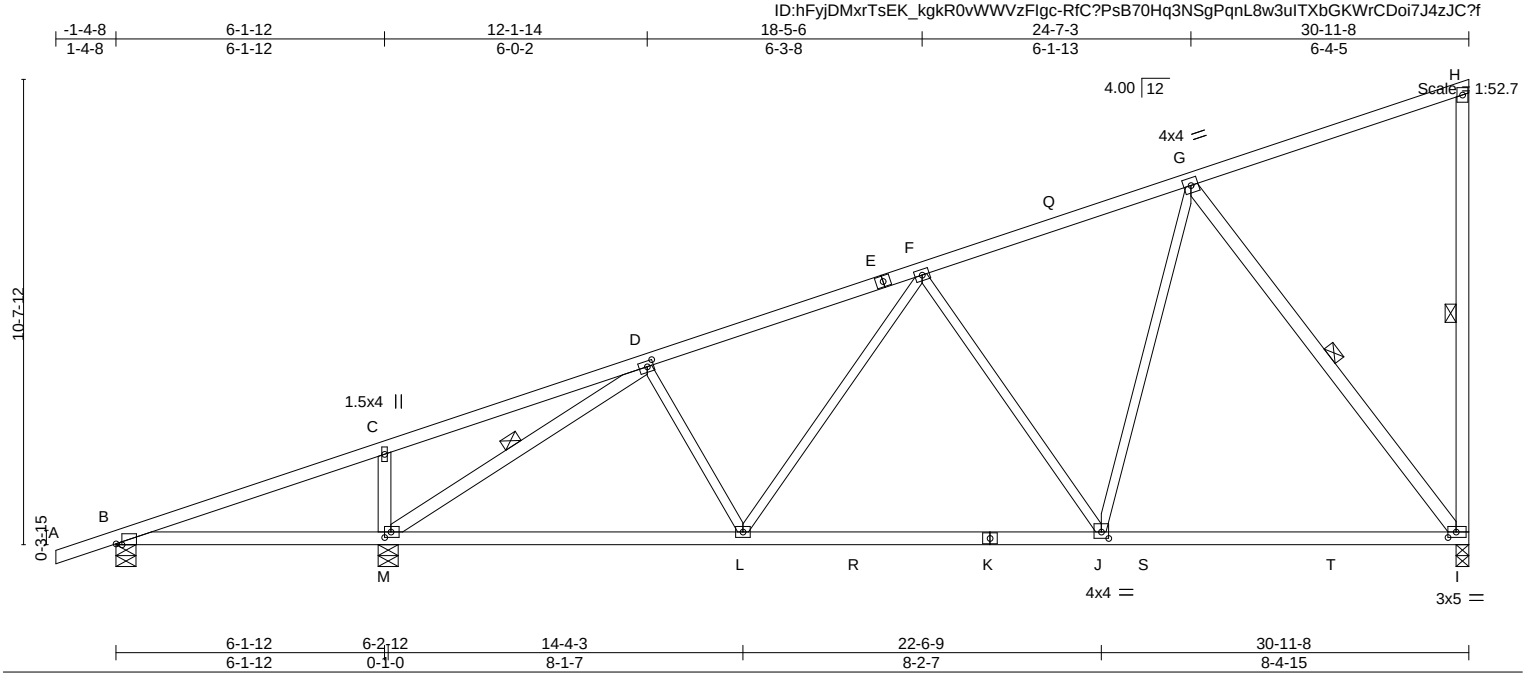


Plate Offsets (X,Y)-- [B:0-1-10,Edge], [D:0-1-12,0-1-8], [I:0-2-4,0-1-8], [J:0-2-0,0-1-12], [M:0-1-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.22	I-J	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.35	I-J	>842	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.05	I	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	-0.06	I-J	>999	240	Weight: 129 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
D-L,F-L,F-J,G-J: 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: B-M.
WEBS 1 Row at midpt H-I, D-M, G-I

REACTIONS. (size) I=0-3-8, B=0-5-8, M=0-5-8
Max Horz B=347(LC 9)
Max Uplift I=-169(LC 10), B=-48(LC 6), M=-195(LC 10)
Max Grav I=1468(LC 3), B=291(LC 1), M=1728(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD D-F=-1555/160, F-G=-1151/138, H-I=-301/52
BOT CHORD B-M=-285/0, L-M=-188/1346, J-L=-147/1312, I-J=-112/834
WEBS C-M=-473/153, D-M=-1830/189, F-J=-549/154, G-J=-51/847, G-I=-1360/201

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) All plates are 3x4 MT20 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B except (jt=lb) I=169, M=195.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

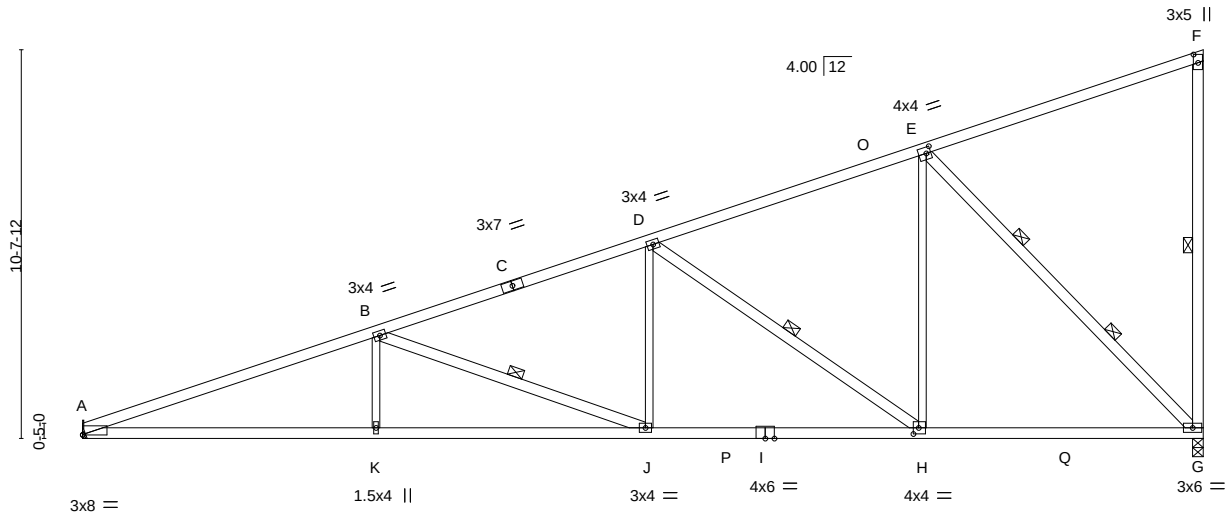
PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	X3	Roof Special	56	1	U1488992
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:42 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

8-0-7 | 15-6-4 | 23-0-1 | 30-8-6
8-0-7 | 7-5-13 | 7-5-13 | 7-8-5

Scale = 1:63.1



8-0-7 | 15-6-4 | 23-0-1 | 30-8-6
8-0-7 | 7-5-13 | 7-5-13 | 7-8-5

Plate Offsets (X,Y)-- [A:0-0-0,0-0-2], [E:0-1-8,0-2-0], [F:0-2-12,0-1-8], [H:0-1-12,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.22	J-K	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.40	J-K	>924	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.11	G	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.10	K-N	>999	240		
BCDL	10.0										Weight: 127 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SPF 2100F 1.8E *Except*
	A-C: 2x4 SPF No.2
BOT CHORD	2x4 SPF 2100F 1.8E *Except*
	G-I: 2x4 SPF No.2
WEBS	2x4 SPF No.2 *Except*
	B-K,D-J,E-H: 2x3 SPF No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
	2-2-0 oc bracing: H-J.
WEBS	1 Row at midpt F-G, B-J, D-H
	2 Rows at 1/3 pts E-G

REACTIONS. (size) G=0-3-8, A=Mechanical
Max Horz A=338(LC 9)
Max Uplift G=-207(LC 10), A=-156(LC 6)
Max Grav G=1753(LC 3), A=1524(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-3682/372, B-D=-2548/265, D-E=-1444/167, F-G=-367/63
BOT CHORD A-K=-451/3429, J-K=-451/3429, H-J=-273/2347, G-H=-118/1309
WEBS B-K=0/317, B-J=-1155/190, D-J=0/652, D-H=-1291/206, E-H=-48/1084, E-G=-1856/257

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) G=207, A=156.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

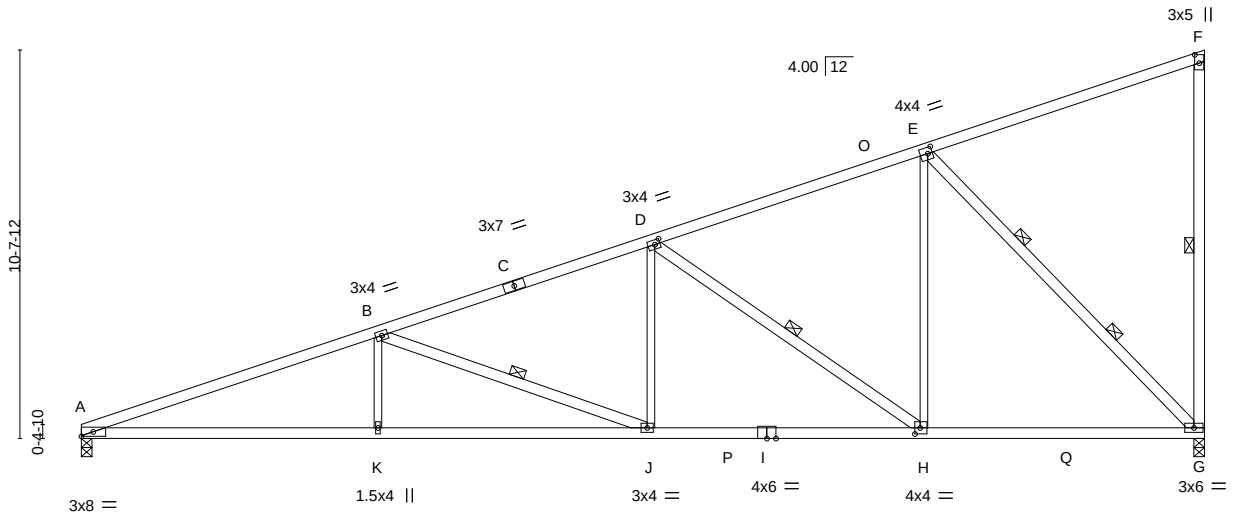
PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	X4	Monopitch	48	1	U1488993
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:44 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

8-1-9 | 15-7-6 | 23-1-3 | 30-9-8
8-1-9 | 7-5-13 | 7-5-13 | 7-8-5

Scale = 1:63.2



8-1-9 | 15-7-6 | 23-1-3 | 30-9-8
8-1-9 | 7-5-13 | 7-5-13 | 7-8-5

Plate Offsets (X,Y)-- [D:0-1-12,0-1-8], [E:0-1-8,0-2-0], [F:0-2-12,0-1-8], [H:0-1-12,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.21	J-K	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.37	J-K	>988	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.11	G	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.10	K-N	>999	240		
BCDL	10.0										Weight: 127 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 2100F 1.8E
BOT CHORD 2x4 SPF 2100F 1.8E *Except*
G-I: 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
B-K,D-J,E-H: 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: H-J.
WEBS 1 Row at midpt F-G, B-J, D-H
2 Rows at 1/3 pts E-G

REACTIONS. (size) G=0-3-8, A=0-3-8
Max Horz A=338(LC 9)
Max Uplift G=-208(LC 10), A=-156(LC 6)
Max Grav G=1759(LC 3), A=1529(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-3734/377, B-D=-2562/267, D-E=-1449/167, F-G=-367/63
BOT CHORD A-K=-457/3482, J-K=-457/3482, H-J=-274/2358, G-H=-118/1314
WEBS B-K=0/325, B-J=-1199/195, D-J=0/664, D-H=-1298/206, E-H=-49/1089, E-G=-1864/258

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) G=208, A=156.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

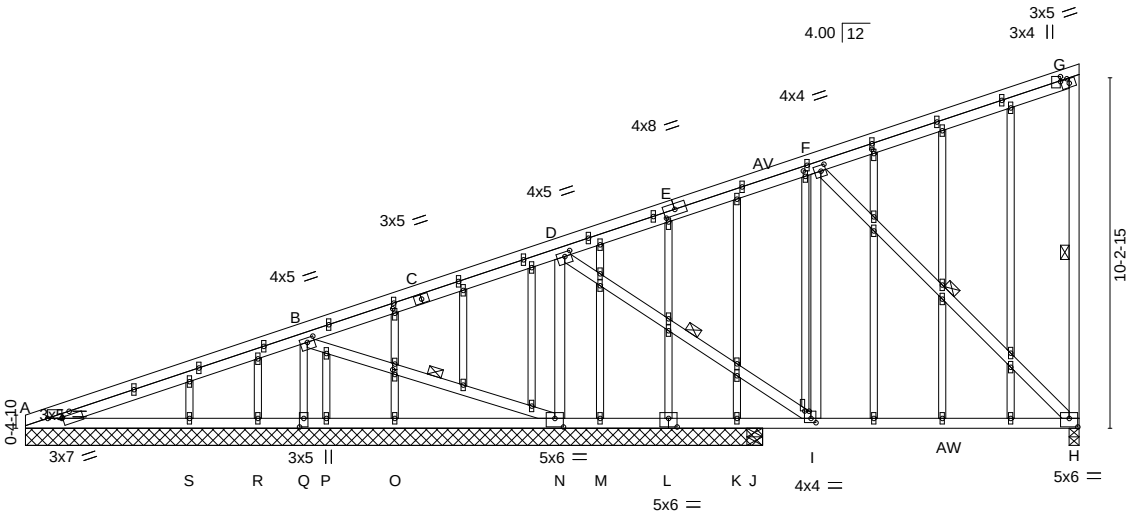
PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	X5	GABLE	8	1	U1488994
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:48 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

8-1-9 | 15-7-6 | 23-1-3 | 30-9-8
8-1-9 | 7-5-13 | 7-5-13 | 7-8-5

Scale = 1:67.3



8-1-9 | 15-7-6 | 21-6-8 | 23-1-3 | 30-9-8
8-1-9 | 7-5-13 | 5-11-2 | 1-6-11 | 7-8-5

Plate Offsets (X,Y)-- [A:0-5-0,0-1-4], [B:0-2-8,0-1-8], [D:0-2-4,0-1-8], [F:0-1-12,0-2-0], [G:0-0-12,0-2-4], [G:0-2-12,0-1-8], [H:0-3-0,0-3-0], [I:0-0-1,0-1-8], [I:0-1-12,0-1-8], [L:0-3-0,0-3-0], [N:0-3-0,0-3-0], [Q:0-3-0,0-1-8], [Z:0-1-8,0-0-12], [AC:0-1-14,0-0-12], [AF:0-1-6,0-0-12], [AN:0-1-11,0-0-12], [AO:0-1-9,0-0-12], [AT:0-2-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.13	H-I	>842	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.23	H-I	>487	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.94	Horz(CT)	-0.03	H	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	-0.05	H-I	>999	240	Weight: 216 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2 *Except* C-G,A-C: 2x4 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except* B-Q: 2x3 SPF No.2
OTHERS 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-3-4 oc bracing.
WEBS 1 Row at midpt G-H, B-N, D-I, F-H

REACTIONS. All bearings 21-6-8 except (jt=length) H=0-3-8, J=0-5-8.
(lb) - Max Horz A=372(LC 38)
Max Uplift All uplift 100 lb or less at joint(s) P, R, S except H=-872(LC 40), A=-1004(LC 31), Q=-1526(LC 39), N=-981(LC 31), J=-318(LC 18)
Max Grav All reactions 250 lb or less at joint(s) M, O, P, R, J except H=1507(LC 27), A=1129(LC 50), Q=1622(LC 28), N=1677(LC 28), K=291(LC 18), S=268(LC 29), A=302(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-3240/2962, B-D=-3490/3268, D-F=-3315/3036, F-G=-2063/1943, G-H=-365/63
BOT CHORD A-S=-2591/2512, R-S=-1485/1406, Q-R=-799/720, P-Q=-376/286, O-P=-759/682, N-O=-2414/2337, M-N=-789/675, K-M=-2202/2088, J-K=-2370/2267, I-J=-2380/2267, H-I=-853/1112
WEBS B-Q=-1589/1590, B-N=-2137/2135, D-N=-2036/1680, D-I=-1800/2008, F-I=-992/1119, F-H=-1543/1208

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) All plates are 1.5x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) P, R, S except (jt=lb) H=872, A=1004, Q=1526, N=981, J=318, A=1004.

May 22,2023

Continued on page 2

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

NOTES-

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 has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 21-6-8 for 343.1 plf.
12) No notches allowed in overhang and 0 from left end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	Y1	GABLE	12	1	U1488995
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:54 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

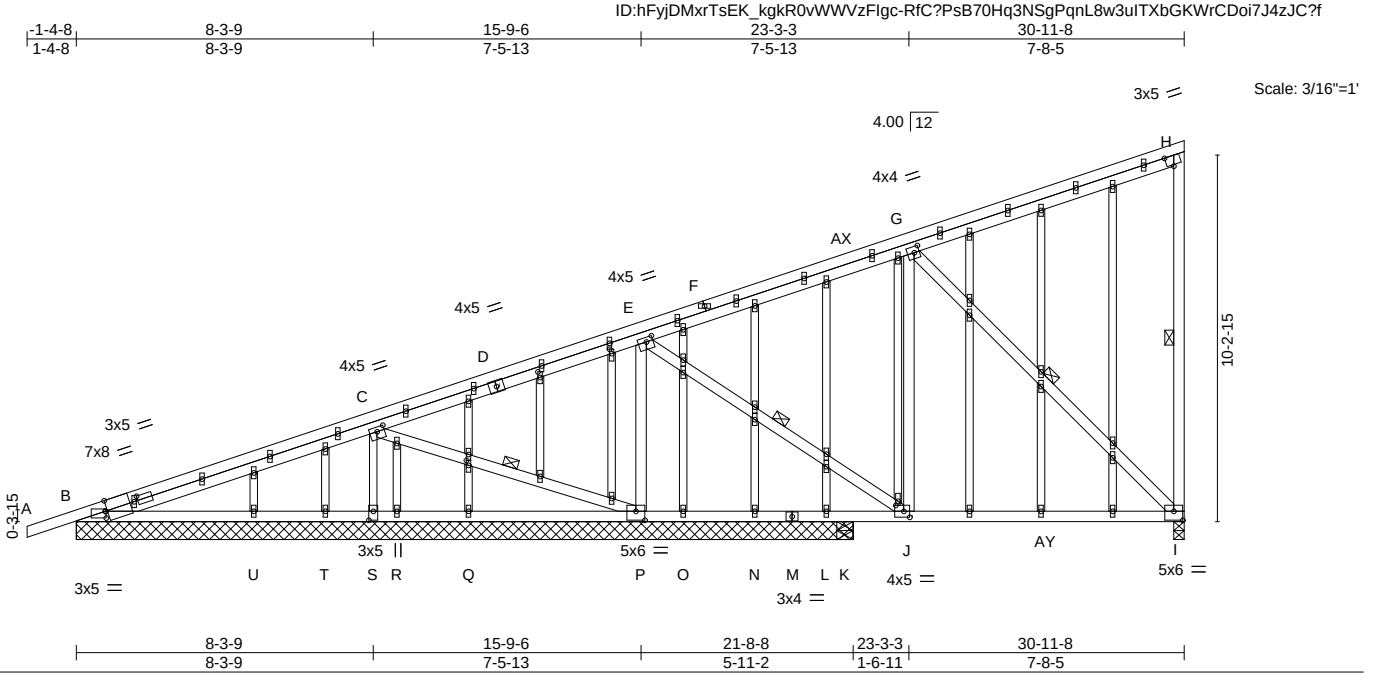


Plate Offsets (X,Y)-- [B:0-0-11,Edge], [B:0-11-7,0-1-8], [B:0-0-4,0-2-4], [C:0-2-8,0-1-8], [E:0-2-4,0-1-8], [G:0-1-12,0-2-0], [H:0-2-3,Edge], [I:0-3-0,0-3-0], [J:0-2-0,0-2-0], [J:0-1-6,0-0-12], [P:0-3-0,0-3-0], [S:0-3-0,0-1-8], [AM:0-1-7,0-0-12], [AO:0-1-14,0-0-12], [AP:0-1-11,0-0-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.13	I-J	>841	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.23	I-J	>487	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.98	Horz(CT)	-0.03	I	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	-0.05	I-J	>999	240	Weight: 218 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2 *Except*
D-H,A-F: 2x4 SPF 2100F 1.8E
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
C-S: 2x3 SPF No.2
OTHERS 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-6-4 oc bracing.
WEBS 1 Row at midpt H-I, C-P, E-J, G-I

REACTIONS. All bearings 21-8-8 except (jt=length) I=0-3-8, K=0-5-8.
(lb) - Max Horz B=805(LC 35)
Max Uplift All uplift 100 lb or less at joint(s) L, O, R, U except I=-905(LC 41), B=-1107(LC 32), S=-1564(LC 40), P=-1031(LC 32), T=-119(LC 1), K=-218(LC 19)
Max Grav All reactions 250 lb or less at joint(s) L, N, Q, R, T, K except I=1537(LC 28), B=1202(LC 29), S=1662(LC 29), P=1764(LC 29), U=355(LC 26), B=492(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-3338/3068, C-E=-3380/3168, E-G=-3278/3005, G-H=-2062/1943, H-I=-369/63
BOT CHORD B-U=-2446/2358, T-U=-1359/1255, S-T=-658/570, R-S=-253/165, Q-R=-920/818, P-Q=-2571/2469, O-P=-936/815, N-O=-1621/1499, L-N=-2306/2184, K-L=-2475/2362, J-K=-2484/2362, I-J=-887/1139
WEBS C-S=-1590/1578, C-P=-2166/2183, E-P=-2102/1747, E-J=-1871/2083, G-J=-1034/1156, G-I=-1582/1255

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) L, O, R, U except (jt=lb) I=905, B=1107, S=1564, P=1031, T=119, K=218, B=1107.

Continued on page 2

JUAN GARCIA
STATE OF WASHINGTON
39586
REGISTERED
PROFESSIONAL ENGINEER

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

NOTES-

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 has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 21-8-8 for 342.3 plf.
13) No notches allowed in overhang and 10408 from left end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	Y2	Monopitch	66	1	U1488996
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:56 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

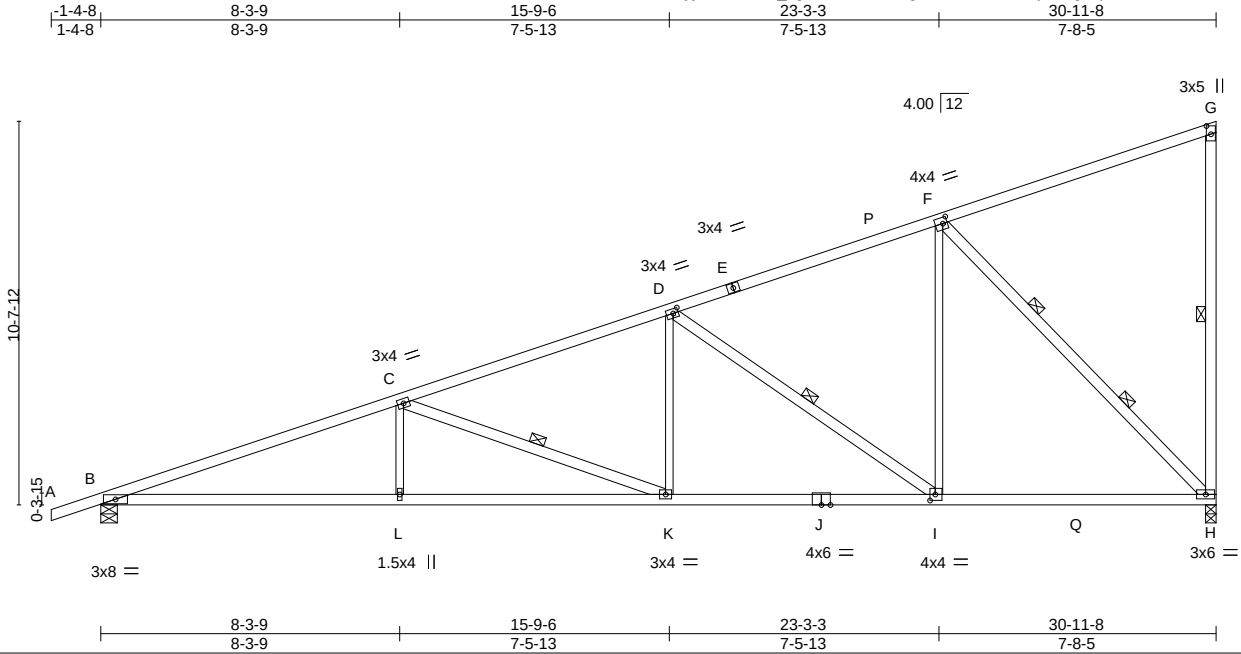


Plate Offsets (X,Y)-- [D:0-1-12,0-1-8], [F:0-1-8,0-2-0], [G:0-2-12,0-1-8], [I:0-1-12,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.23	L-O	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.43	L-O	>856	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.11	H	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.12	L-O	>999	240		
BCDL	10.0										Weight: 129 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 2100F 1.8E
BOT CHORD 2x4 SPF 2100F 1.8E *Except*
H-J: 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
C-L,D-K,F-I: 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: I-K.
WEBS 1 Row at midpt G-H, C-K, D-I
2 Rows at 1/3 pts F-H

REACTIONS. (size) H=0-3-8, B=0-5-8
Max Horz B=347(LC 9)
Max Uplift H=-208(LC 10), B=-202(LC 6)
Max Grav H=1777(LC 3), B=1627(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-3800/374, C-D=-2591/266, D-F=-1467/167, G-H=-370/63
BOT CHORD B-L=-459/3563, K-L=-459/3563, I-K=-275/2385, H-I=-118/1331
WEBS C-L=0/339, C-K=-1257/197, D-K=0/679, D-I=-1308/206, F-I=-48/1095, F-H=-1888/258

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 25.0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) H=208, B=202.
8) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

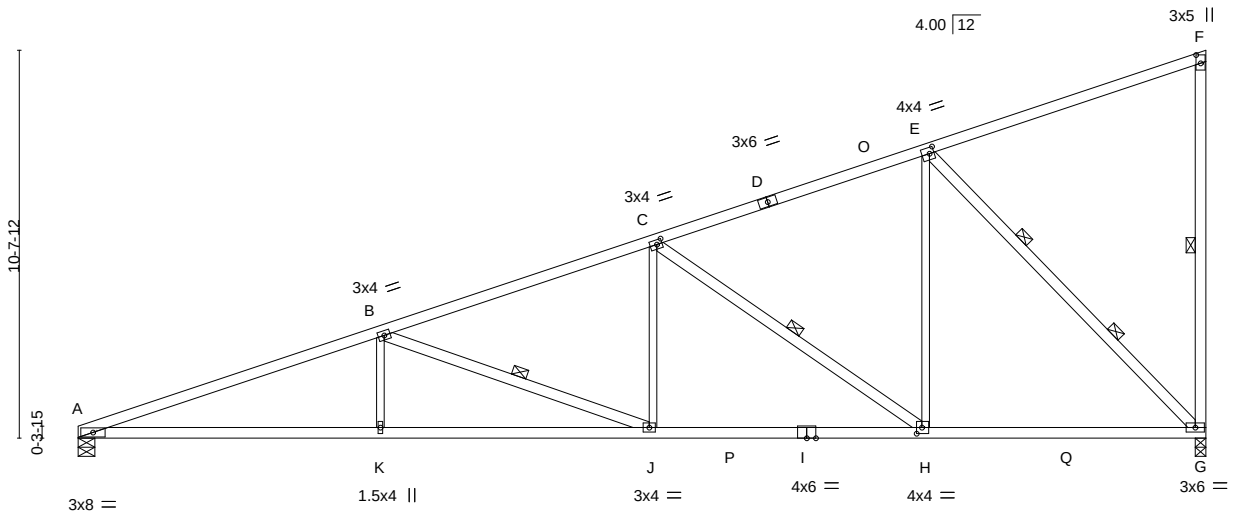
PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	Y3	MONOPITCH	6	1	U1488997
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:57 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

8-3-9 | 15-9-6 | 23-3-3 | 30-11-8
8-3-9 | 7-5-13 | 7-5-13 | 7-8-5

Scale = 1:63.3



8-3-9 | 15-9-6 | 23-3-3 | 30-11-8
8-3-9 | 7-5-13 | 7-5-13 | 7-8-5

Plate Offsets (X,Y)-- [C:0-1-12,0-1-8], [E:0-1-8,0-2-0], [F:0-2-12,0-1-8], [H:0-1-12,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.24	K-N	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.45	K-N	>828	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.11	G	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.13	K-N	>999	240		
BCDL	10.0										Weight: 127 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF 2100F 1.8E
BOT CHORD 2x4 SPF 2100F 1.8E *Except*
G-I: 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
B-K,C-J,E-H: 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: H-J.
WEBS 1 Row at midpt F-G, B-J, C-H
2 Rows at 1/3 pts E-G

REACTIONS. (size) G=0-3-8, A=0-5-8
Max Horz A=339(LC 9)
Max Uplift G=-209(LC 10), A=-158(LC 6)
Max Grav G=1769(LC 3), A=1537(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-3811/386, B-C=-2587/269, C-E=-1459/168, F-G=-367/63
BOT CHORD A-K=-466/3574, J-K=-466/3574, H-J=-276/2380, G-H=-118/1324
WEBS B-K=0/342, B-J=-1275/203, C-J=0/683, C-H=-1311/208, E-H=-50/1098, E-G=-1879/259

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) G=209, A=158.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	Y4	Monopitch	30	1	U1488998
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:47:58 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

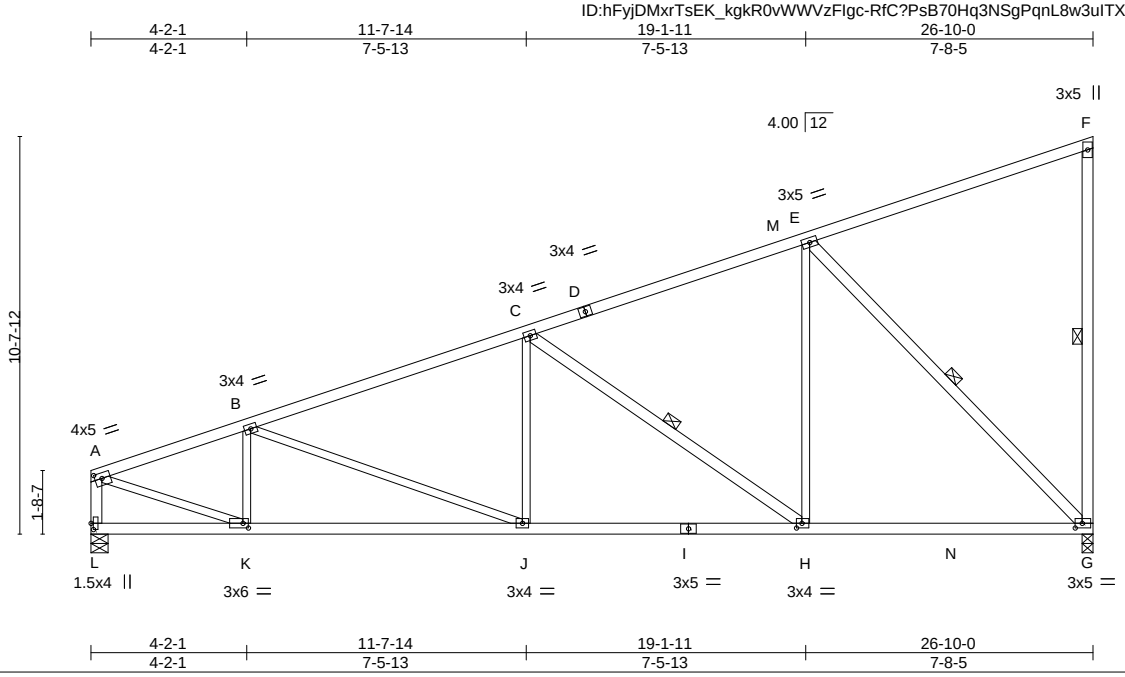


Plate Offsets (X,Y)-- [A:0-2-4,0-1-12], [G:0-2-4,0-1-8], [H:0-1-12,0-1-8], [K:0-1-12,0-1-8], [L:0-2-0,0-0-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.16	G-H	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.26	G-H	>999	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.06	G	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.05	G-H	>999	240	Weight: 120 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF 2100F 1.8E *Except*
A-D: 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
F-G,C-H,E-G,A-L: 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt F-G, C-H, E-G

REACTIONS. (size) G=0-3-8, L=0-5-8
Max Horz L=333(LC 7)
Max Uplift G=-186(LC 10), L=-130(LC 6)
Max Grav G=1520(LC 3), L=1328(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1868/185, B-C=-1925/200, C-E=-1212/145, F-G=-358/63, A-L=-1278/140
BOT CHORD K-L=-318/42, J-K=-270/1749, H-J=-214/1759, G-H=-122/1089
WEBS B-K=-487/125, C-J=0/306, C-H=-851/158, E-H=-20/828, E-G=-1540/227, A-K=-173/1821

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) G=186, L=130.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	Y5	GABLE	6	1	U1488999
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:48:02 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

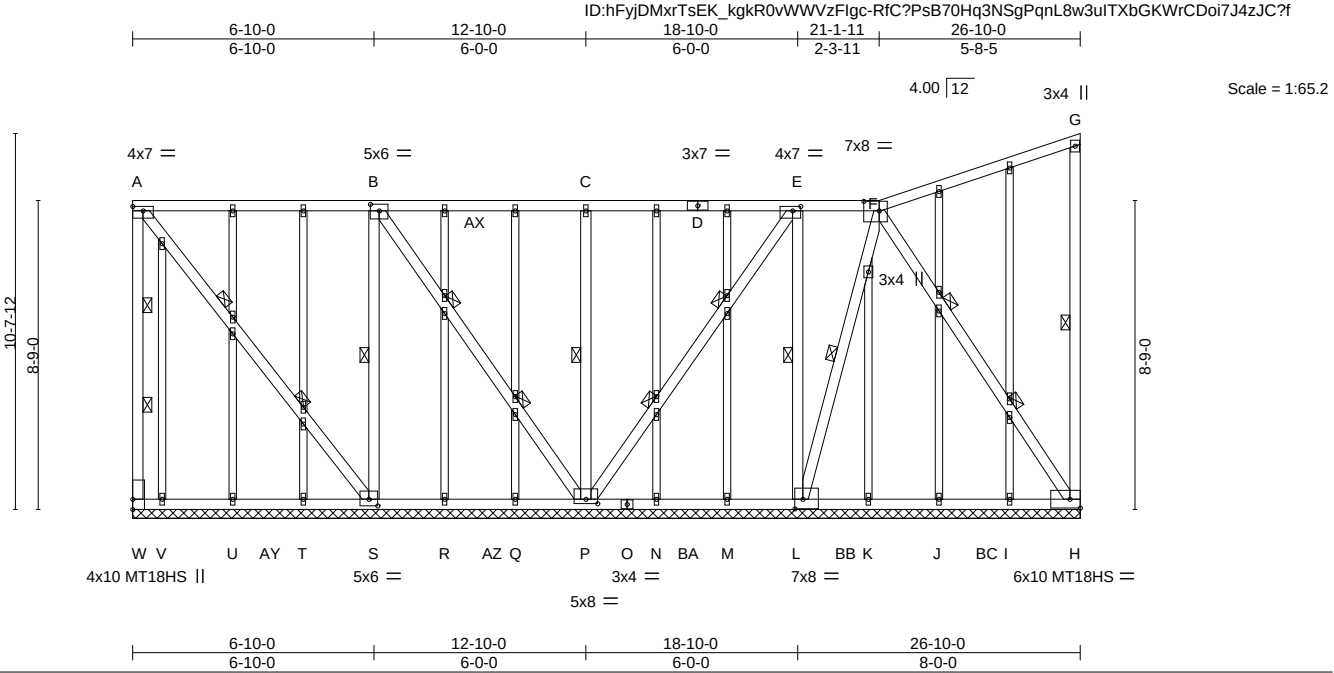


Plate Offsets (X,Y)-- [A:Edge,0-1-8], [B:0-3-0,0-2-4], [E:0-2-12,0-1-8], [F:0-5-4,0-3-4], [L:0-2-12,0-3-4], [P:0-4-0,0-1-8], [S:0-3-0,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.33	Vert(CT)	n/a	-	n/a	999	MT18HS	197/144
TCDL	12.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	-0.02	H	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-S							Weight: 231 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
OTHERS 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-7-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-6-12 oc bracing.
WEBS 1 Row at midpt G-H, B-S, C-P, E-L, F-L
2 Rows at 1/3 pts A-W, A-S, B-P, E-P, F-H

REACTIONS. All bearings 26-10-0.
(lb) - Max Horz W=173(LC 34)
Max Uplift All uplift 100 lb or less at joint(s) except W=-2139(LC 36), H=-2305(LC 41), S=-150(LC 41), P=-226(LC 41), L=-891(LC 40), V=-119(LC 35)
Max Grav All reactions 250 lb or less at joint(s) I, J, K, M, N, Q, R, T, U, V except W=2097(LC 35), H=2315(LC 52), S=650(LC 64), P=1112(LC 64), L=1083(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-W=-2014/2015, A-B=-1598/1568, B-C=-1350/1315, C-E=-1662/1627, E-F=-876/827, F-G=-1443/1387, G-H=-292/69
BOT CHORD V-W=-265/207, U-V=-745/687, T-U=-1225/1167, S-T=-1705/1647, R-S=-605/557, Q-R=-1085/1037, P-Q=-1565/1517, N-P=-1184/1160, M-N=-704/680, L-M=-307/283, K-L=-460/452, J-K=-552/543, I-J=-1032/1023, H-I=-1474/1468
WEBS A-S=-2532/2548, B-S=-2022/2020, B-P=-2379/2377, C-P=-657/135, E-P=-2325/2308, E-L=-1883/1887, F-L=-2787/2764, F-H=-2671/2688

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left exposed ; end vertical left exposed; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2139 lb uplift at joint W, 2305 lb uplift at joint H, 150 lb uplift at joint S, 226 lb uplift at joint P, 891 lb uplift at joint L and 119 lb uplift at joint V.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI

May 22,2023

Continued on page 2

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

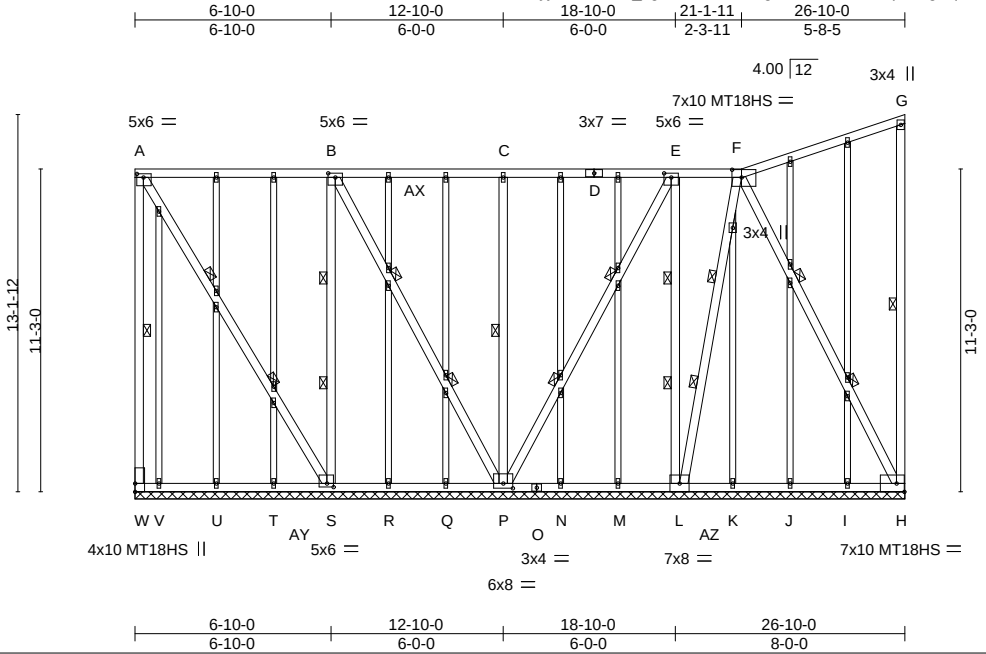
PRMU20240279 BLD H

NOTES-

14) This truss has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 26-10-0 for 240.0 plf.

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA U1489000
N0653	Y6	GABLE	6	1	Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:48:06 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:80.3

Plate Offsets (X,Y)-- [A:0-2-12,0-1-8], [B:0-3-0,0-1-12], [E:0-3-0,0-1-12], [F:0-4-0,0-3-4], [H:0-3-4,Edge], [P:0-4-0,0-2-0], [S:0-2-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	n/a	-	n/a	999	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.32	Vert(CT)	n/a	-	n/a	999	MT18HS	197/144
TCDL	12.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	-0.02	H	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-S							Weight: 278 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF 2100F 1.8E *Except*
G-H,B-S,C-P,E-L: 2x4 SPF No.2
OTHERS 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-7-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-7-8 oc bracing.
WEBS 1 Row at midpt A-W, G-H, C-P
2 Rows at 1/3 pts A-S, B-S, B-P, E-P, E-L, F-L, F-H

REACTIONS. All bearings 26-10-0.
(lb) - Max Horz W=56(LC 32)
Max Uplift All uplift 100 lb or less at joint(s) V except W=-2743(LC 32), H=-3094(LC 33), S=-471(LC 33), P=-231(LC 32), L=-1185(LC 32)
Max Grav All reactions 250 lb or less at joint(s) I, J, K, M, N, Q, R, T, U, V except W=2772(LC 53), H=3090(LC 52), S=664(LC 28), P=1272(LC 64), L=1269(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-W=-2737/2708, A-B=-1642/1624, B-C=-1333/1313, C-E=-1652/1632, E-F=-875/850, F-G=-1442/1386, G-H=-291/71
BOT CHORD U-V=-700/645, T-U=-1180/1125, S-T=-1660/1605, R-S=-495/454, Q-R=-975/934, P-Q=-1455/1414, N-P=-1133/1114, M-N=-653/634, L-M=-382/362, K-L=-361/349, J-K=-613/601, I-J=-1093/1081, H-I=-1538/1526
WEBS A-S=-3132/3159, B-S=-2398/2372, B-P=-2680/2691, C-P=-657/141, E-P=-2718/2684, E-L=-2322/2339, F-L=-3521/3482, F-H=-3374/3401

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.33 plate grip DOL=1.33
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=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) V except (jt=lb) W=2743, H=3094, S=471, P=231, L=1185.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI

May 22,2023

Continued on page 2

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

NOTES-

14) This truss has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 26-10-0 for 240.0 plf.

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	Y7	MONOPITCH	36	1	U1489001
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:48:08 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

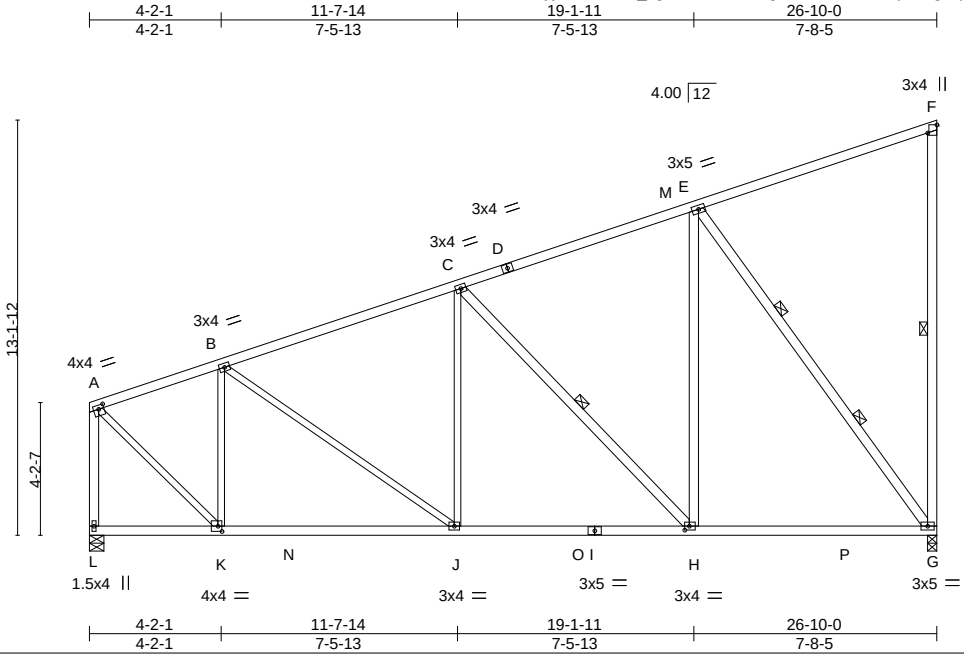


Plate Offsets (X,Y)-- [A:0-2-0,0-1-8], [F:Edge,0-3-8], [H:0-1-12,0-1-8], [K:0-1-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.16	G-H	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.27	G-H	>999	240		
TCDL	12.0	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.04	G	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.03	J	>999	240	Weight: 141 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF 2100F 1.8E *Except*
A-D: 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
B-K,B-J,C-J,A-K: 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt F-G, C-H
2 Rows at 1/3 pts E-G

REACTIONS. (size) G=0-3-8, L=0-5-8
Max Horz L=246(LC 7)
Max Uplift G=-238(LC 10), L=-76(LC 6)
Max Grav G=1567(LC 3), L=1384(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1040/50, B-C=-1393/71, C-E=-967/37, F-G=-357/78, A-L=-1343/85
BOT CHORD J-K=-297/973, H-J=-248/1254, G-H=-141/856
WEBS B-K=-758/118, B-J=0/344, C-H=-610/155, E-H=-28/801, E-G=-1426/237, A-K=-71/1355

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left exposed ; end vertical left exposed; Lumber DOL=1.33 plate grip DOL=1.33
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) L except (jt=lb) G=238.
7) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

Job	Truss	Truss Type	Qty	Ply	TIMBERLANE-202 27th Ave SE-Puyallup-WA
N0653	Y8	GABLE	6	1	U1489002
					Job Reference (optional)

Alliance Truss (CA), Abbotsford, BC - V2S 7P6, 8.630 s Nov 19 2022 MiTek Industries, Inc. Fri May 19 14:48:13 2023 Page 1
ID:hFyjDMxrTsEK_kgkR0vWWVzFlgc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

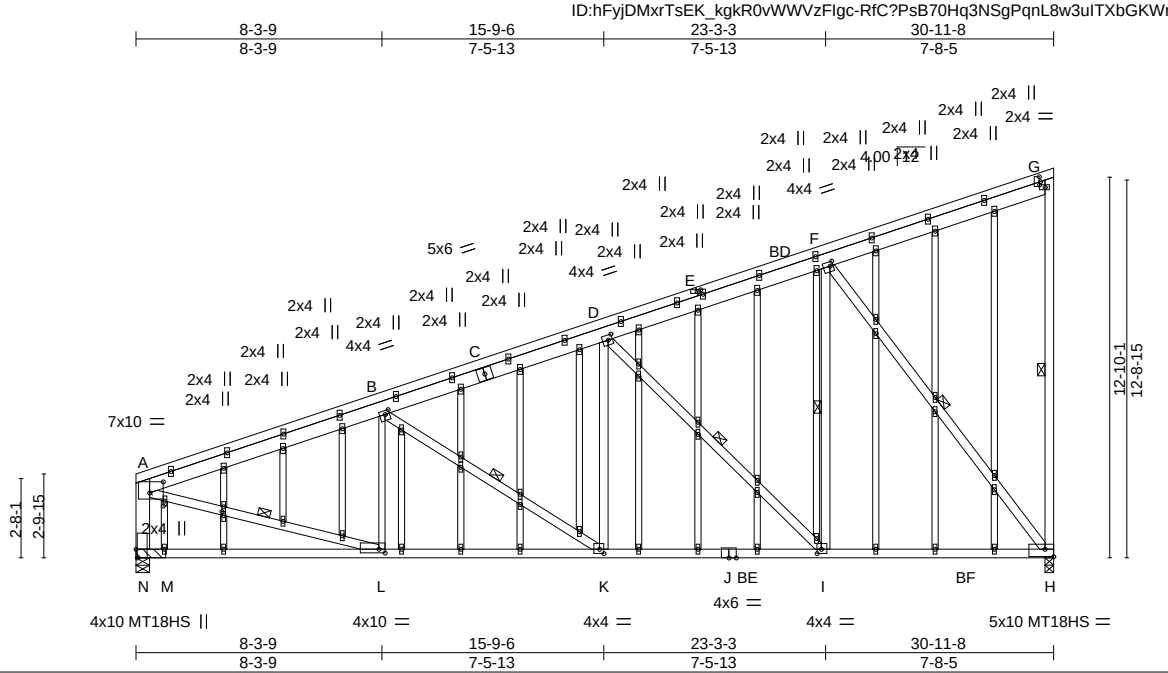


Plate Offsets (X,Y)-- [A:0-5-8,0-4-8], [B:0-1-12,0-1-8], [D:0-1-12,0-2-0], [E:0-1-7,0-0-12], [F:0-1-4,0-1-12], [G:0-2-0,0-0-8], [G:0-2-4,0-1-0], [H:Edge,0-3-0], [I:0-1-12,0-1-12], [K:0-1-12,0-1-12], [L:0-2-8,0-1-8], [N:0-3-8,Edge], [AZ:0-1-10,0-0-12], [BC:0-2-0,0-0-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	25.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.20	K-L	>999	360	MT20	197/144
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.28	K-L	>999	240	MT18HS	197/144
TCDL	12.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.08	H	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS		Wind(LL)	0.19	K-L	>999	240	Weight: 295 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SPF No.2 *Except* C-G,A-C: 2x6 SPF No.2
BOT CHORD 2x4 SPF 2100F 1.8E *Except* H-J: 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except* B-L: 2x3 SPF No.2, F-H,A-L: 2x4 SPF 2100F 1.8E, A-N: 2x6 SPF No.2
OTHERS 2x3 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-6-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-2-8 oc bracing.
WEBS 1 Row at midpt G-H, B-K, D-I, F-I, F-H, A-L

REACTIONS. (size) H=0-3-8, N=(0-5-8 + bearing block)
Max Horz N=285(LC 39)
Max Uplift H=-784(LC 40), N=-3085(LC 31)
Max Grav H=2193(LC 27), N=3783(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-6091/5275, B-D=-5343/4656, D-F=-3839/3414, F-G=-1973/1892, G-H=-359/78, A-N=-3644/3113
BOT CHORD L-N=-2182/1934, K-L=-3343/4225, I-K=-2819/3629, H-I=-1563/2118
WEBS B-L=-1386/1441, B-K=-1822/1777, D-K=-900/1157, D-I=-1680/1130, F-I=-710/1541, F-H=-2242/933, A-L=-5088/5825

NOTES-
1) 2x4 SPF 2100F 1.8E bearing block 12" long at jt. N attached to front face with 2 rows of 10d (0.131"x3") nails spaced 3" o.c. 8 Total fasteners. Bearing is assumed to be SPF No.2.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=5.0psf; h=30ft; Ke=1.00; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left exposed ; end vertical left exposed; Lumber DOL=1.33 plate grip DOL=1.33
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) All plates are MT20 plates unless otherwise indicated.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) H=784, N=3085.
12) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI

Continued on page 2

JUAN GARCIA
STATE OF WASHINGTON
39586
REGISTERED
PROFESSIONAL ENGINEER

May 22,2023

MiTek
240 Stirling Crescent
Bradford, ON. L3Z 4L5

PRMU20240279 BLD H

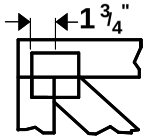
NOTES-

13) This truss has been designed for a total drag load of 240 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 30-11-8 for 240.0 plf.

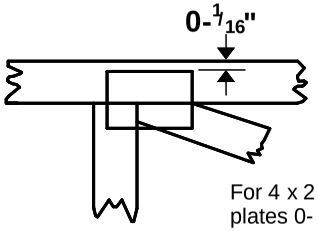
14) No notches allowed in overhang and 0 from left end and 0 from right end or 12" along rake from scarf, whichever is larger. Minimum 1.5x4 tie plates required at 2-0-0 o.c. maximum between the stacking chords. For edge-wise notching, provide at least one tie plate between each notch.

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

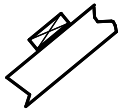
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

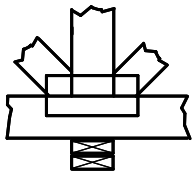
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING

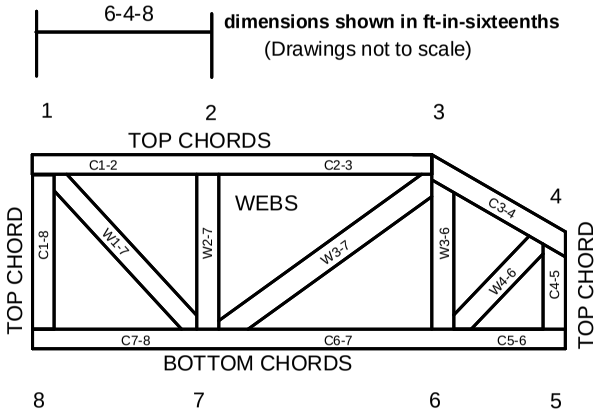


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

MiTek Engineering Reference Sheet: MII-7473 rev. 6/30/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

PRMU20240279 BLD H