MiTek USA, Inc.
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661
Telephone 916-755-3571

Re: 22010709-A
Modern Northwest

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

Pages or sheets covered by this seal: R73430651 thru R73430753

My license renewal date for the state of Oregon is June 30, 2023.

November 9,2022

Johnson, Andrew

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.

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	A01	CALIFORNIA GIRDER	1	3	R73430651

Job Reference (optional)

City of Portland
Reviewed for code compliance
Date: 04/16/24

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:35:04 2022 Page 1
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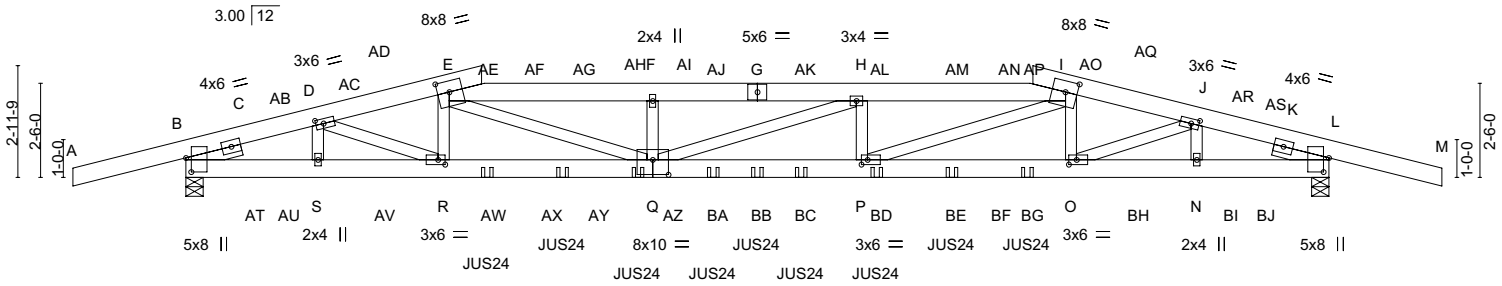
-3-0-0 3-6-1 6-10-2 7-10-3 12-4-11 17-11-5 22-5-13 23-5-14 26-9-15 30-4-0 33-4-0
3-0-0 3-6-1 3-4-1 1-0-1 4-6-8 5-6-11 4-6-8 1-0-1 3-4-1 3-6-1 3-0-0

Scale = 1:61.2



3-6-1 6-10-2 12-4-11 17-11-5 23-5-14 26-9-15 30-4-0
3-6-1 3-4-1 5-6-9 5-6-11 5-6-9 3-4-1 3-6-1

Plate Offsets (X,Y)-- [B:0-4-7,0-1-11], [D:0-2-8,0-1-8], [E:0-3-12,0-3-8], [I:0-3-12,0-3-8], [J:0-2-8,0-1-8], [L:0-4-7,0-1-11], [O:0-2-8,0-1-8], [P:0-2-0,0-1-8], [Q:0-5-0,0-4-12], [R:0-2-4,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.32	P-Q	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.75	P-Q	>485	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.09	L	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.20	P-Q	>999	360	Weight: 595 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x6 DF SS G
WEBS 2x4 DF Stud/Std G
SLIDER Left 2x4 DF Stud/Std -G- 1-6-0, Right 2x4 DF Stud/Std -G- 1-6-0

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) B=0-5-8, L=0-5-8
Max Horz B=-41(LC 9)
Max Uplift B=-688(LC 8), L=-688(LC 9)
Max Grav B=4050(LC 36), L=4050(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-7711/1084, D-E=-11729/1737, E-F=-16024/2534, F-H=-16024/2534, H-I=-16037/2540, I-J=-11726/1736, J-L=-7711/1085
BOT CHORD B-S=-1000/7250, R-S=-1000/7250, Q-R=-1704/11673, P-Q=-2475/16037, O-P=-1662/11670, N-O=-986/7250, L-N=-986/7250
WEBS D-S=-1104/211, D-R=-739/4699, E-R=-1242/315, E-Q=-934/4763, F-Q=-1452/512, H-Q=-281/273, H-P=-1487/521, I-P=-941/4779, I-O=-1245/316, J-O=-737/4696, J-N=-1103/210

NOTES-
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 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) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
6) Unbalanced snow loads have been considered for this design.
7) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
8) Provide adequate drainage to prevent water ponding.
9) Plates checked for a plus or minus 5 degree rotation about its center.
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.

Continued on page 2

REGISTERED PROFESSIONAL ENGINEER 93437PE OREGON MARCH 13, 2018 ANDREW JOHNSON

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

NOTES-

12) A plate rating reduction of 20% has been applied for the green lumber members.
13) Two RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) B and L. This connection is for uplift only and does not consider lateral forces.
14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
15) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
16) Use MiTek JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 8-0-0 from the left end to 22-4-0 to connect truss(es) to back face of bottom chord.
17) Fill all nail holes where hanger is in contact with lumber.
18) Double installations of RT7 require the two hurricane ties to be installed on opposite sides of top plate to avoid nail interference in single ply truss.
19) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1047 lb down and 214 lb up at 7-11-0, 330 lb down and 158 lb up at 10-0-0, 395 lb down and 192 lb up at 12-0-0, 373 lb down and 197 lb up at 14-0-0, 349 lb down and 197 lb up at 15-2-0, 373 lb down and 197 lb up at 16-4-0, 395 lb down and 192 lb up at 18-4-0, and 330 lb down and 158 lb up at 20-4-0, and 1047 lb down and 214 lb up at 22-4-15 on top 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-E=-62, E-I=-62, I-M=-62, T-X=-20
   Concentrated Loads (lb)
   Vert: G=-291 AE=-1005 AH=-276 AI=-337 AJ=-315 AK=-315 AL=-337 AM=-276 AP=-1005 AW=-53(B) AY=-54(B) AZ=-52(B) BA=-50(B) BB=-49(B) BC=-50(B) BD=-52(B) BE=-54(B) BG=-53(B)

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	A02	California	1	1	R73430652

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:35:10 2022 Page 1
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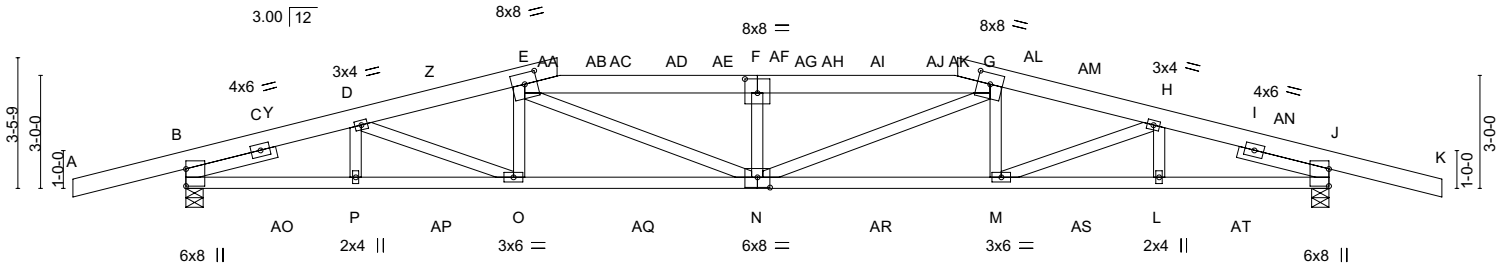
-3-0-0 4-6-1 8-10-2 9-10-3 15-2-0 20-5-13 21-5-14 25-9-15 30-4-0 33-4-0
3-0-0 4-6-1 4-4-1 1-0-1 5-3-13 5-3-13 1-0-1 4-4-1 4-6-1 3-0-0

Scale = 1:61.2



4-6-1 8-10-2 15-2-0 21-5-14 25-9-15 30-4-0
4-6-1 4-4-1 6-3-14 6-3-14 4-4-1 4-6-1

Plate Offsets (X,Y)-- [E:0-4-0,0-3-8], [F:0-4-0,0-4-8], [G:0-4-0,0-3-8], [N:0-4-0,0-3-4]

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0		Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.31	N	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0		Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.69	N-O	>531	180		
TCDL	10.0		Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.16	J	n/a	n/a		
BCLL	0.0 *		Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.17	N	>999	360	Weight: 177 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G
SLIDER Left 2x4 DF Stud/Std -G- 2-6-0, Right 2x4 DF Stud/Std -G- 2-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-4-12 oc bracing.

REACTIONS. (size) B=0-5-8, J=0-5-8
Max Horz B=-47(LC 11)
Max Uplift B=-365(LC 14), J=-365(LC 14)
Max Grav B=1949(LC 38), J=1949(LC 38)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-3316/716, D-E=-3987/953, E-F=-4761/1157, F-G=-4761/1157, G-H=-3987/953, H-J=-3316/716
BOT CHORD B-P=-575/3085, O-P=-575/3085, N-O=-825/3918, M-N=-825/3918, L-M=-575/3085, J-L=-575/3085
WEBS D-P=-55/262, D-O=-260/935, E-N=-205/1092, F-N=-613/244, G-N=-206/1092, H-M=-260/935, H-L=-55/262

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -3-0-0 to 0-0-0, Interior(1) 0-0-0 to 4-6-1, Exterior(2R) 4-6-1 to 13-3-6 , Interior(1) 13-3-6 to 17-0-10, Exterior(2R) 17-0-10 to 25-9-15, Interior(1) 25-9-15 to 30-3-10, Exterior(2E) 30-3-10 to 33-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=365, J=365.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

REGISTERED PROFESSIONAL ENGINEER
93437PE
OREGON
MARCH 13, 2018
ANDREW JOHNSON

EXPIRES: 06/30/2023
November 9,2022

Continued on page 2

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430652
22010709-A	A02	California	1	1	Job Reference (optional)	

NOTES-

13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 72 lb down and 83 lb up at 9-11-0, 100 lb down and 101 lb up at 12-0-0, 106 lb down and 107 lb up at 14-0-0, 106 lb down and 107 lb up at 15-2-0, 106 lb down and 107 lb up at 16-4-0, and 100 lb down and 101 lb up at 18-4-0, and 72 lb down and 83 lb up at 20-4-15 on top 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-E=-62, E-G=-62, G-K=-62, Q-U=-20
   Concentrated Loads (lb)
   Vert: F=-50 AB=-31 AD=-47 AF=-50 AG=-50 AI=-47 AK=-31

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	A03	California	1	1	R73430653

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:35:13 2022 Page 1
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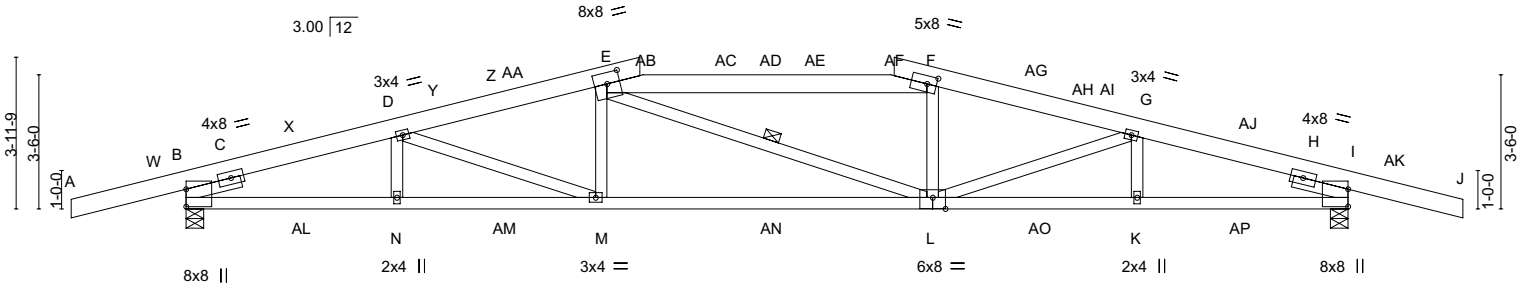
-3-0-0 5-6-1 10-10-2 11-10-3 18-5-13 19-5-14 24-9-15 30-4-0 33-4-0
3-0-0 5-6-1 5-4-1 1-0-1 6-7-10 1-0-1 5-4-1 5-6-1 3-0-0

Scale = 1:60.2



5-6-1 10-10-2 19-5-14 24-9-15 30-4-0
5-6-1 5-4-1 8-7-13 5-4-1 5-6-1

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

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0		Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.32	L-M	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0		Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.82	L-M	>443	180		
TCDL	10.0		Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.19	I	n/a	n/a		
BCLL	0.0	*	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.16	M-N	>999	360	Weight: 171 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G
SLIDER Left 2x4 DF Stud/Std -G- 1-6-0, Right 2x4 DF Stud/Std -G- 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-6-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt E-L

REACTIONS. (size) B=0-5-8, I=0-5-8
Max Horz B=53(LC 10)
Max Uplift B=-362(LC 14), I=-362(LC 14)
Max Grav B=1997(LC 38), I=1994(LC 38)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-3606/762, D-E=-3960/941, E-F=-3632/904, F-G=-3739/895, G-I=-3584/761
BOT CHORD B-N=-620/3353, M-N=-620/3353, L-M=-797/3869, K-L=-618/3331, I-K=-618/3331
WEBS D-N=-42/274, D-M=-195/715, E-M=-77/285, E-L=-490/132, F-L=0/320, G-L=-226/521, G-K=-47/272

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -3-0-0 to 0-0-0, Interior(1) 0-0-0 to 6-8-6, Exterior(2R) 6-8-6 to 23-9-6 , Interior(1) 23-9-6 to 30-3-10, Exterior(2E) 30-3-10 to 33-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) B=362, I=362.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

Continued on page 2

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	A03	California	1	1	R73430653
					Job Reference (optional)

NOTES-

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 101 lb down and 94 lb up at 11-11-0, 104 lb down and 105 lb up at 14-0-0, 110 lb down and 111 lb up at 15-2-0, and 104 lb down and 105 lb up at 16-4-0, and 101 lb down and 94 lb up at 18-4-15 on top 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-E=-62, E-F=-62, F-J=-62, O-S=-20
   Concentrated Loads (lb)
   Vert: AB=-60 AC=-49 AD=-51 AE=-49 AF=-60

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	A04	California	1	1	R73430654

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:35:17 2022 Page 1
ID:JNvEIoBxGkofHe3542w6p4yTouh-Nu2nmrkwkCGR2CUGh2UliSUcAOr3RzL9lcC5j9yLWVO

6-5-11	12-9-6	13-9-7	16-5-1	17-5-2	23-9-3	30-3-4	33-3-4
6-5-11	6-3-11	1-0-1	2-7-10	1-0-1	6-4-1	6-6-1	3-0-0

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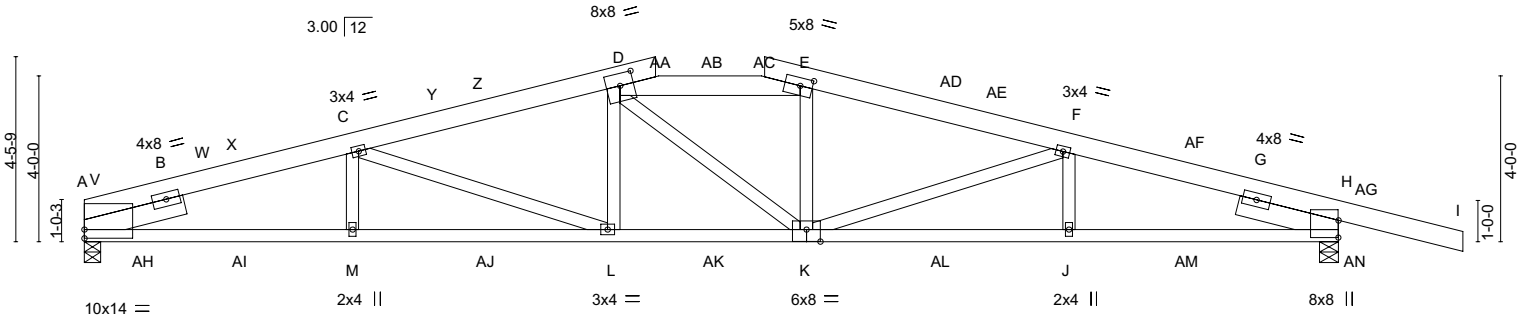

6-5-11	12-9-6	17-5-2	23-9-3	30-3-4
6-5-11	6-3-11	4-7-13	6-4-1	6-6-1

Plate Offsets (X,Y)-- [A:0-0-0,0-2-9], [D:0-4-0,0-3-8], [E:0-3-8,0-2-4], [H:0-4-15,0-0-1], [K:0-4-0,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.33	L-M	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.71	L-M	>509	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.20	H	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.16	L-M	>999	360	Weight: 171 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G
SLIDER Left 2x6 DF SS -G- 2-6-0, Right 2x6 DF SS -G- 2-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) A=0-4-12, H=0-5-8
Max Horz A=-71(LC 11)
Max Uplift A=-277(LC 14), H=-415(LC 14)
Max Grav A=1879(LC 38), H=2184(LC 38)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-C=-4439/1052, C-D=-4321/1091, D-E=-3971/1039, E-F=-4102/1033, F-H=-4322/960
BOT CHORD A-M=-907/4190, L-M=-907/4190, K-L=-917/4190, J-K=-808/4066, H-J=-808/4066
WEBS C-M=0/327, C-L=-409/385, D-L=-11/319, D-K=-469/106, E-K=-3/377, F-K=-443/232, F-J=0/323

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-5, Interior(1) 3-0-5 to 8-7-12, Exterior(2R) 8-7-12 to 21-8-8, Interior(1) 21-8-8 to 30-2-15, Exterior(2E) 30-2-15 to 33-3-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
11) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) A and H. This connection is for uplift only and does not consider lateral forces.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

Continued on page 2

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	A04	California	1	1	R73430654
					Job Reference (optional)

NOTES-

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 277 lb down and 168 lb up at 13-10-5, and 81 lb down and 82 lb up at 15-1-4, and 277 lb down and 168 lb up at 16-4-3 on top 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=-62, D-E=-62, E-I=-62, N-R=-20
   Concentrated Loads (lb)
   Vert: AA=-236 AB=-38 AC=-236

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430655
22010709-A	A05	Common	1	1	Job Reference (optional)	

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ID:JNvEloBxGkofHe3542w6p4yTouh-nTkwOtno17f0vsDrMA2SK46DVbv2eltbRaRlKUyLWVL

5-2-3 | 10-1-11 | 15-1-4 | 20-0-12 | 25-0-3 | 30-3-4
5-2-3 | 4-11-9 | 4-11-9 | 4-11-8 | 4-11-8 | 5-3-1

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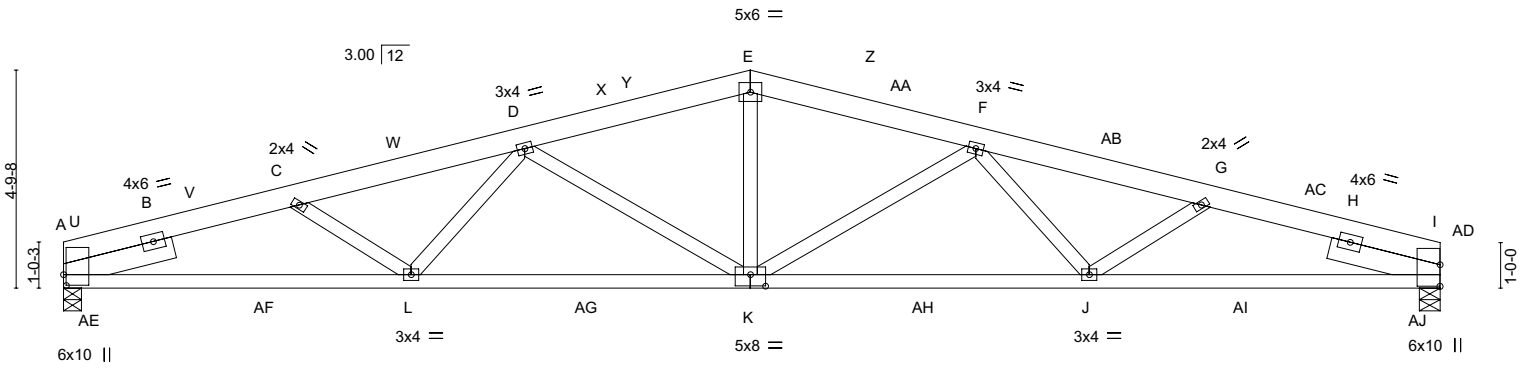

7-7-12 | 15-1-4 | 22-6-11 | 30-3-4
7-7-12 | 7-5-8 | 7-5-7 | 7-8-10

Plate Offsets (X,Y)-- [A:0-2-13,0-0-11], [I:0-5-11,0-0-1], [K:0-4-0,0-3-0]

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0		Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.24	K-L	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0		Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.57	K-L	>637	180		
TCDL	10.0		Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.14	I	n/a	n/a		
BCLL	0.0	*	Code	IRC2018/TPI2014	Matrix-AS		Wind(LL)	0.11	J-K	>999	360	Weight: 161 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G
SLIDER Left 2x6 DF SS -G- 2-6-0, Right 2x6 DF SS -G- 2-6-0

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

REACTIONS. (size) A=0-4-12, I=0-5-8
Max Horz A=-44(LC 12)
Max Uplift A=-198(LC 14), I=-198(LC 14)
Max Grav A=1362(LC 2), I=1362(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-C=-3025/802, C-D=-3067/783, D-E=-2511/710, E-F=-2511/710, F-G=-3086/787, G-I=-3059/810
BOT CHORD A-L=-718/2839, K-L=-734/2940, J-K=-736/2948, I-J=-727/2875
WEBS C-L=-78/259, D-L=-12/316, D-K=-772/220, E-K=-152/876, F-K=-780/222, F-J=-1/324

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-5, Interior(1) 3-0-5 to 12-0-15, Exterior(2R) 12-0-15 to 18-1-9, Interior(1) 18-1-9 to 27-2-15, Exterior(2E) 27-2-15 to 30-3-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) A and I. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430656
22010709-A	B01	CALIFORNIA GIRDER	1	5	Job Reference (optional)	

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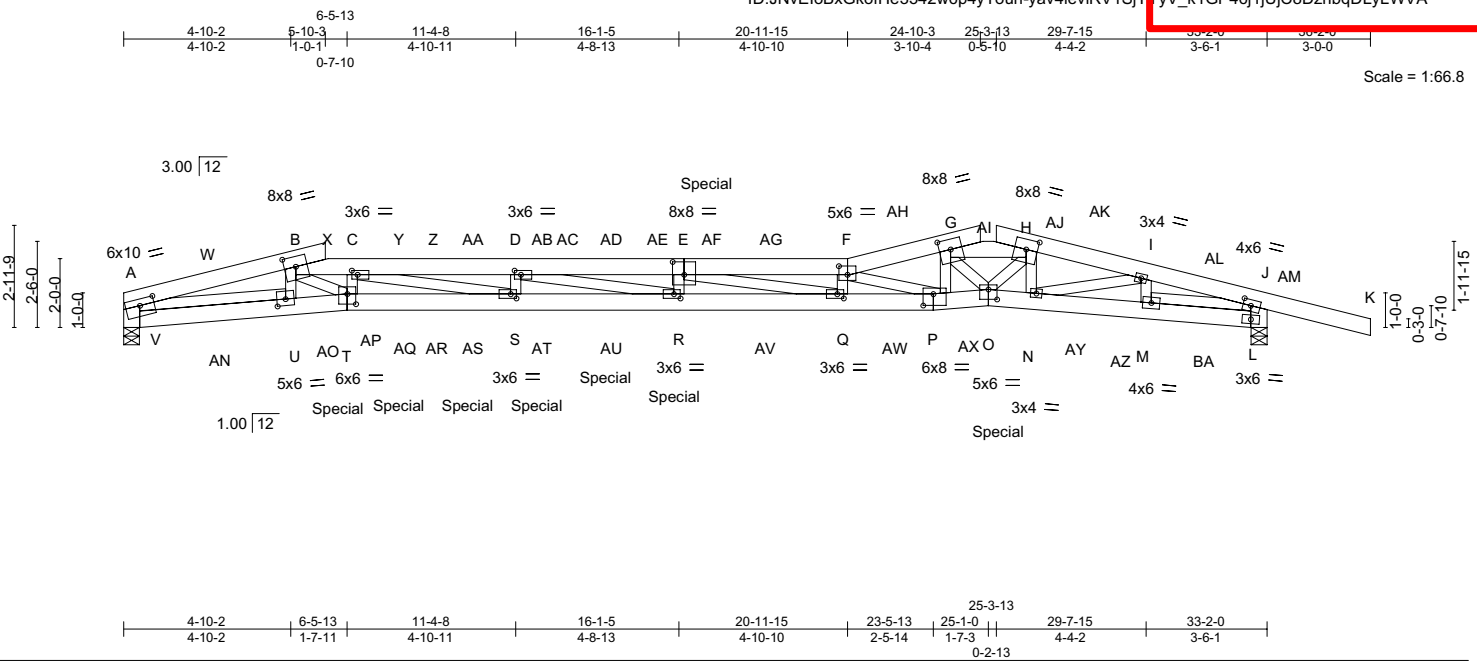

Plate Offsets (X,Y)-- [A:0-5-0,0-2-4], [B:0-4-0,0-3-8], [C:0-2-0,0-1-8], [D:0-2-4,0-1-8], [E:0-4-0,0-4-8], [F:0-3-0,0-3-0], [G:0-4-0,0-3-8], [H:0-4-0,0-3-8], [J:0-2-12,0-2-0], [O:0-3-0,0-3-8], [P:0-3-8,0-4-0], [Q:0-2-4,0-1-8], [R:0-2-4,0-1-8], [S:0-2-0,0-1-8], [T:0-3-0,0-3-8], [U:0-3-0,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.45	R	>865	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-1.15	R	>340	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.20	L	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.29	R	>999	360	Weight: 1056 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x6 DF SS G
WEBS 2x4 DF Stud/Std G *Except*
A-V,J-L: 2x6 DF SS G

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) V=0-5-8, L=0-5-8
Max Horz V=-52(LC 10)
Max Uplift V=-386(LC 12), L=-478(LC 12)
Max Grav V=2899(LC 40), L=3219(LC 40)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-9787/1302, B-C=-15299/2104, C-D=-20697/2890, D-E=-22828/3137, E-F=-20909/2667, F-G=-14472/1689, G-H=-12976/1433, H-I=-11005/1178, I-J=-7065/691, A-V=-2684/387, J-L=-3063/465
BOT CHORD U-V=-328/2634, T-U=-1248/9773, S-T=-2074/15615, R-S=-2802/20697, Q-R=-3071/22871, P-Q=-2574/20888, O-P=-1460/13564, N-O=-1088/10988, M-N=-598/6712, L-M=-143/1786
WEBS B-U=-1799/291, B-T=-961/6809, C-T=-2260/411, C-S=-744/5200, D-S=-1096/301, D-R=-253/2200, E-R=-322/157, E-Q=-2345/835, F-Q=-203/308, F-P=-7208/1087, G-P=-357/2408, G-O=-1017/209, H-O=-395/3330, I-N=-505/4277, I-M=-1133/181, A-U=-889/6862, J-M=-585/5033, H-N=-1321/197

NOTES-
1) 5-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
Attach TC&BC w/1/2" diam. bolts(ASTM A-307) in the center of the member w/washers at 4-0-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
6) Unbalanced snow loads have been considered for this design.
7) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
8) Provide adequate drainage to prevent water ponding.
9) Unbalanced snow loads have been considered for this design.
10) This truss has been designed for a plus or minus 5 degree rotation about its center.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

NOTES-

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.
12) A plate rating reduction of 20% has been applied for the green lumber members.
13) Bearing at joint(s) V, L considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
14) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) V and L. This connection is for uplift only and does not consider lateral forces.
15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
16) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
17) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
18) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 454 lb down and 168 lb up at 5-11-0, 298 lb down and 150 lb up at 8-0-0, 293 lb down and 158 lb up at 10-0-0, 263 lb down and 159 lb up at 12-0-0, 171 lb down and 103 lb up at 14-0-0, 234 lb down and 155 lb up at 16-0-0, 336 lb down and 95 lb up at 16-11-4, 169 lb down and 95 lb up at 16-11-4, and 454 lb down and 53 lb up at 24-11-0, and 454 lb down and 53 lb up at 25-2-15 on top chord, and 68 lb down at 6-0-0, 68 lb down at 8-0-0, 68 lb down at 10-0-0, 68 lb down at 12-0-0, 73 lb down at 14-0-0, and 73 lb down at 16-0-0, and 89 lb down at 25-1-0 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-B=-62, B-F=-62, F-G=-62, G-H=-62, H-J=-62, J-K=-62, T-V=-20, P-T=-20, O-P=-20, L-O=-20
   Concentrated Loads (lb)
   Vert: E=-118 O=-89(B) R=-36(B) X=-311 Y=-243 AA=-235 AB=-205 AD=-89 AF=-406(B=-302) AI=-433 AJ=-433 AP=-34(B) AQ=-34(B) AS=-34(B) AT=-34(B) AU=-36(B)

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	B02	CALIFORNIA	1	2	Job Reference (optional)

R73430657

City of Portland
Reviewed for code compliance
Date: 04/16/24

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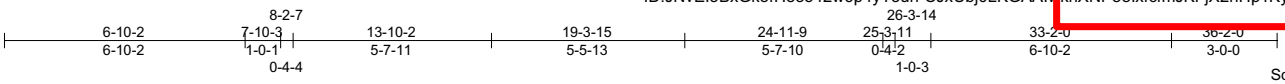

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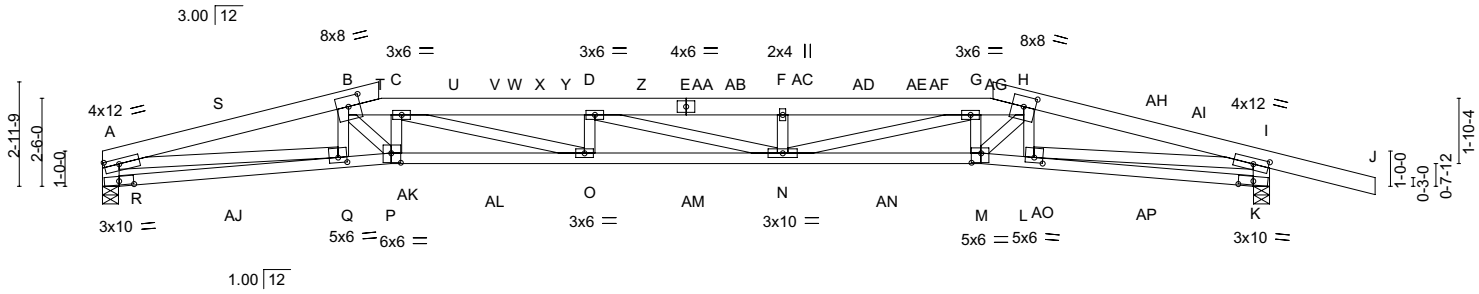

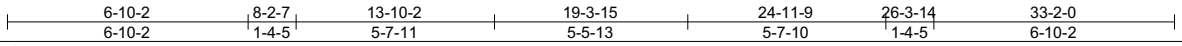

Plate Offsets (X,Y)-- [A:0-5-0,0-1-12], [B:0-4-0,0-3-8], [H:0-4-0,0-3-8], [I:0-5-5,0-2-0], [K:0-5-0,0-1-6], [L:0-3-0,0-1-12], [M:0-3-4,0-3-4], [P:0-3-4,0-3-4], [Q:0-3-0,0-1-12], [R:0-5-0,0-1-6]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.49	N-O	>807	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-1.13	N-O	>349	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.27	K	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-AS		Wind(LL)	0.29	N-O	>999	360	Weight: 370 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G *Except*
A-R,I-K: 2x6 DF SS G

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

REACTIONS. (size) R=0-5-8, K=0-5-8
Max Horz R=-55(LC 93)
Max Uplift R=-271(LC 14), K=-392(LC 14)
Max Grav R=1612(LC 38), K=1809(LC 38)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-5311/1378, B-C=-6644/1697, C-D=-8879/2095, D-F=-8961/2075, F-G=-8961/2075, G-H=-6552/1581, H-I=-5198/1227, A-R=-1615/469, I-K=-1788/674
BOT CHORD Q-R=-282/1339, P-Q=-1244/5180, O-P=-1573/6767, N-O=-1943/8879, M-N=-1463/6679, L-M=-1090/5082, K-L=-103/1183
WEBS B-Q=-452/200, B-P=-486/2339, C-P=-1229/269, C-O=-384/2186, D-O=-470/173, G-N=-477/2363, G-M=-1259/328, H-M=-547/2347, H-L=-428/209, A-Q=-941/3971, I-L=-1002/3847, F-N=-521/189, D-N=-622/657

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 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) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-2-13 to 3-6-10, Exterior(2R) 3-6-10 to 11-8-3, Interior(1) 11-8-3 to 21-5-13, Exterior(2R) 21-5-13 to 30-10-6, Interior(1) 30-10-6 to 32-10-3, Exterior(2E) 32-10-3 to 36-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
6) Unbalanced snow loads have been considered for this design.
7) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
8) Provide adequate drainage to prevent water ponding.
9) Plates checked for a plus or minus 5 degree rotation about its center.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2

REGISTERED PROFESSIONAL ENGINEER
93437PE
OREGON
MARCH 13, 2018
ANDREW JOHNSON

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	B02	CALIFORNIA	1	2	R73430657

Job Reference (optional)

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) A plate rating reduction of 20% has been applied for the green lumber members.
13) Bearing at joint(s) R, K considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
14) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) R and K. This connection is for uplift only and does not consider lateral forces.
15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
16) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
17) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
18) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
19) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 105 lb down and 176 lb up at 7-11-0, 105 lb down and 104 lb up at 10-0-0, 113 lb down and 112 lb up at 12-0-0, 113 lb down and 112 lb up at 14-0-0, and 86 lb down and 112 lb up at 16-0-0, and 123 lb down and 115 lb up at 16-11-4 on top 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-B=-62, B-H=-62, H-I=-62, I-J=-62, P-R=-20, M-P=-20, K-M=-20
   Concentrated Loads (lb)
   Vert: D=-54 T=-22 U=-51 X=-54 AA=-28 AB=-39

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	B03	CALIFORNIA	1	2	R73430658

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:35:46 2022 Page 1
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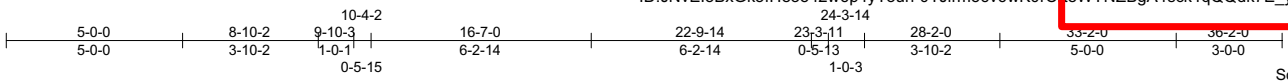

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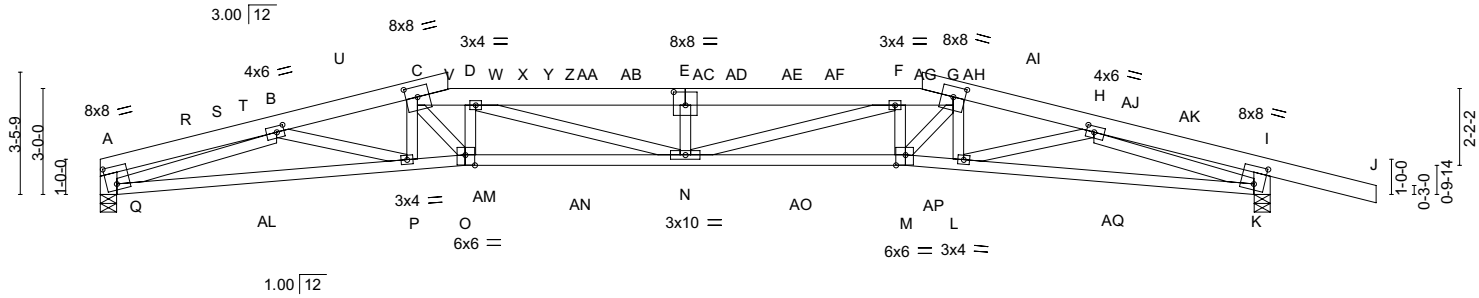

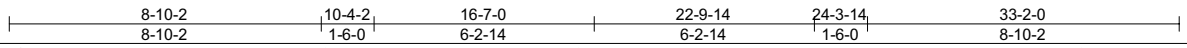

Plate Offsets (X,Y)-- [A:0-3-8,0-6-0], [B:0-2-8,0-2-0], [C:0-4-0,0-3-8], [E:0-4-0,0-4-8], [G:0-4-0,0-3-8], [H:0-2-8,0-2-0], [I:0-3-8,0-6-0], [M:0-3-4,0-3-8], [O:0-3-4,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.35	N	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.81	N-O	>484	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.27	K	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.24	N	>999	360	Weight: 376 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G *Except*
A-Q,I-K: 2x6 DF SS G

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) Q=0-5-8, K=0-5-8
Max Horz Q=-60(LC 12)
Max Uplift Q=-317(LC 14), K=-534(LC 14)
Max Grav Q=1779(LC 38), K=2119(LC 38)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1087/271, B-C=-6022/1643, C-D=-6815/1953, D-E=-7875/2327, E-F=-7875/2327, F-G=-6652/2193, G-H=-5951/1858, H-I=-1028/210, A-Q=-643/199, I-K=-1032/421
BOT CHORD P-Q=-1223/4608, O-P=-1492/5960, N-O=-1804/6866, M-N=-2044/6692, L-M=-1715/5901, K-L=-1222/4346
WEBS C-P=-469/227, C-O=-499/1571, D-O=-779/257, D-N=-368/1392, E-N=-585/229, F-N=-118/1367, F-M=-774/263, G-M=-528/1585, G-L=-532/313, B-Q=-3894/1153, H-K=-3703/1311, B-P=-260/1568, H-L=-488/1742

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 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) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-2-13 to 3-6-10, Interior(1) 3-6-10 to 4-3-10, Exterior(2R) 4-3-10 to 13-8-3, Interior(1) 13-8-3 to 19-5-13, Exterior(2R) 19-5-13 to 28-10-6, Interior(1) 28-10-6 to 32-10-3, Exterior(2E) 32-10-3 to 36-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
6) Unbalanced snow loads have been considered for this design.
7) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
8) Provide adequate drainage to prevent water ponding.
9) Plates checked for a plus or minus 5 degree rotation about its center.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

Continued on page 2

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

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) A plate rating reduction of 20% has been applied for the green lumber members.
13) Bearing at joint(s) Q, K considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
14) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) Q and K. This connection is for uplift only and does not consider lateral forces.
15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
16) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
17) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
18) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 155 lb down and 174 lb up at 9-11-0, 102 lb down and 103 lb up at 12-0-0, 110 lb down and 111 lb up at 14-0-0, 110 lb down and 111 lb up at 16-0-0, and 121 lb down and 111 lb up at 16-11-4, and 294 lb down and 367 lb up at 23-2-14 on top 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-C=-62, C-G=-62, G-I=-62, I-J=-62, O-Q=-20, M-O=-20, K-M=-20
   Concentrated Loads (lb)
   Vert: V=-72 X=-48 AB=-51 AC=-51 AD=-51 AG=-212

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430659
22010709-A	B04	CALIFORNIA	1	1	Job Reference (optional)	

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:35:53 2022 Page 1
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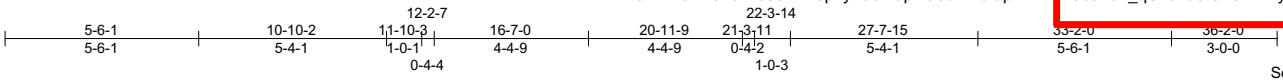

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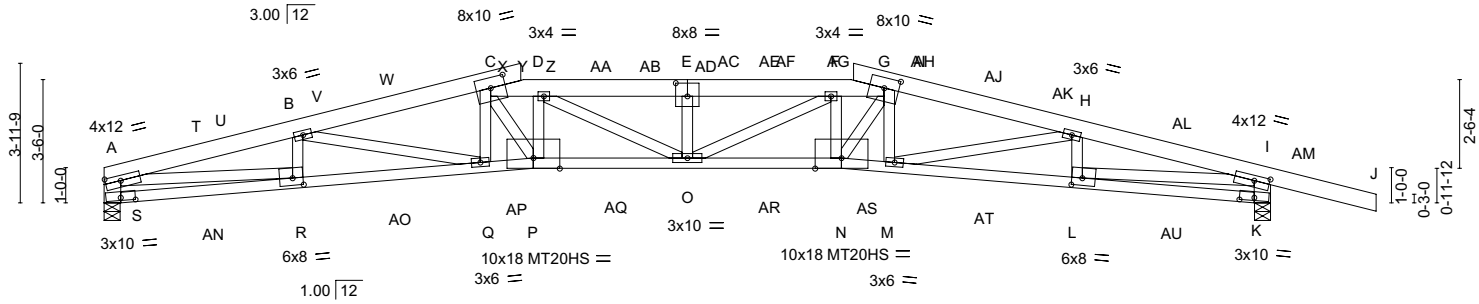

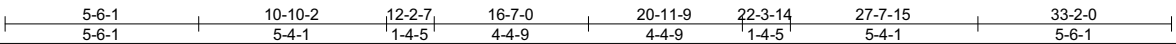

Plate Offsets (X,Y)-- [A:0-5-4,0-1-12], [C:0-5-0,0-3-8], [E:0-4-0,0-4-8], [G:0-5-0,0-3-8], [I:0-5-4,0-1-12], [K:0-5-0,0-1-0], [L:0-3-9,0-2-8], [R:0-3-9,0-2-8], [S:0-5-0,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.52	O	>757	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-1.16	O-P	>337	180	MT20HS	165/146
TCDL	10.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.40	K	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.28	O	>999	360	Weight: 194 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G *Except*
A-S,I-K: 2x6 DF SS G, A-R,I-L: 2x4 DF No.1&Btr G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-8-13 oc bracing.

REACTIONS. (size) S=0-5-8, K=0-5-8
Max Horz S=-66(LC 97)
Max Uplift S=-245(LC 14), K=-383(LC 14)
Max Grav S=1763(LC 38), K=2053(LC 38)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-5088/1245, B-C=-5760/1460, C-D=-6034/1571, D-E=-6440/1678, E-F=-6440/1678, F-G=-5743/1526, G-H=-5485/1401, H-I=-4712/1072, A-S=-1743/456, I-K=-2019/651
BOT CHORD R-S=-112/746, Q-R=-1095/4872, P-Q=-1274/5632, O-P=-1388/6052, N-O=-1344/5759, M-N=-1221/5368, L-M=-917/4487, K-L=-129/587
WEBS B-R=-471/210, B-Q=-178/1013, C-Q=-186/265, C-P=-224/974, D-P=-449/137, D-O=-112/644, F-N=-443/132, G-N=-241/958, G-M=-200/251, H-M=-304/1050, H-L=-441/216, A-R=-982/4119, I-L=-1032/3924, E-O=-453/186, F-O=-177/901

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-2-13 to 3-6-10, Interior(1) 3-6-10 to 6-3-10, Exterior(2R) 6-3-10 to 15-8-3, Interior(1) 15-8-3 to 17-5-13, Exterior(2R) 17-5-13 to 26-10-6, Interior(1) 26-10-6 to 32-10-3, Exterior(2E) 32-10-3 to 36-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
12) Bearing at joint(s) S, K considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

EXPIRES: 06/30/2023
November 9,2022

Continued on page 2

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430659
22010709-A	B04	CALIFORNIA	1	1	Job Reference (optional)	

NOTES-

13) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) S and K. This connection is for uplift only and does not consider lateral forces.
14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
15) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 158 lb down and 174 lb up at 11-11-0, 102 lb down and 103 lb up at 14-0-0, 110 lb down and 111 lb up at 16-0-0, and 125 lb down and 111 lb up at 16-11-4, and 178 lb down and 90 lb up at 21-2-14 on top 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-C=-62, C-G=-62, G-I=-62, I-J=-62, P-S=-20, N-P=-20, K-N=-20
   Concentrated Loads (lb)
   Vert: Y=-75 AA=-48 AD=-51 AE=-51

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430660
22010709-A	B05	CALIFORNIA	1	1	Job Reference (optional)	

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:35:57 2022 Page 1
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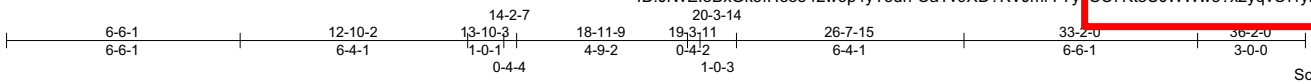

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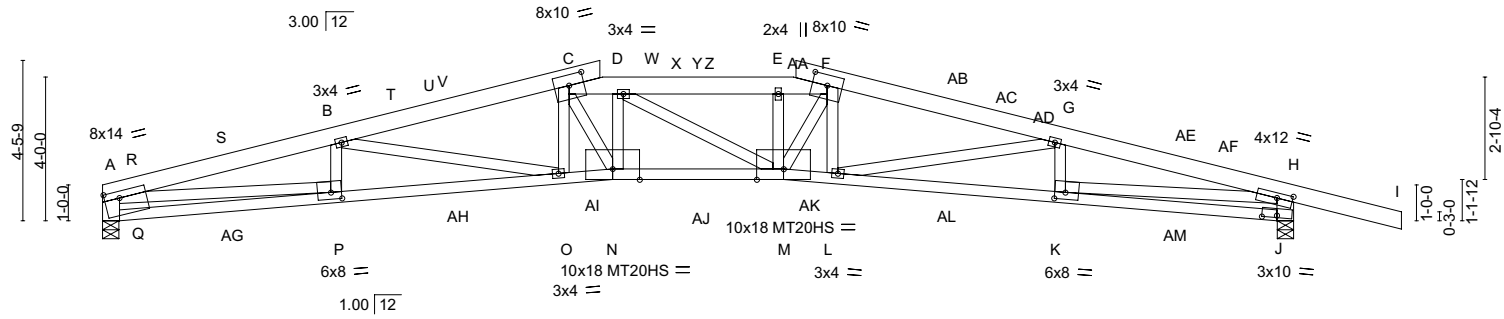

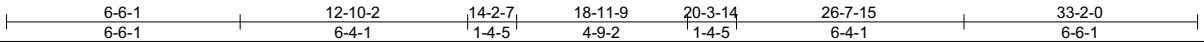

Plate Offsets (X,Y)-- [A:0-5-0,0-2-4], [C:0-5-0,0-3-8], [F:0-5-0,0-3-8], [H:0-5-4,0-1-12], [J:0-5-0,0-0-12], [K:0-3-9,0-2-4], [P:0-3-9,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.51	M-N	>764	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-1.10	M-N	>355	180	MT20HS	165/146
TCDL	10.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.38	J	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.25	M-N	>999	360	Weight: 195 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G *Except*
A-Q,H-J: 2x6 DF SS G, A-P,H-K: 2x4 DF No.1&Btr G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) Q=0-5-8, J=0-5-8
Max Horz Q=-71(LC 12)
Max Uplift Q=-247(LC 14), J=-396(LC 14)
Max Grav Q=1838(LC 38), J=2165(LC 38)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-5613/1272, B-C=-5805/1364, C-D=-5910/1432, D-E=-5910/1421, E-F=-5899/1416, F-G=-5743/1332, G-H=-5392/1126, A-Q=-1822/452, H-J=-2141/648
BOT CHORD P-Q=-127/873, O-P=-1118/5378, N-O=-1160/5646, M-N=-1225/5916, L-M=-1132/5593, K-L=-966/5145, J-K=-80/756
WEBS B-P=-403/202, B-O=-286/671, C-O=-53/391, C-N=-163/806, D-N=-344/252, E-M=-302/207, F-M=-179/889, F-L=-82/374, G-L=-291/751, G-K=-388/209, A-P=-988/4493, H-K=-1055/4377

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-2-13 to 3-6-10, Interior(1) 3-6-10 to 8-3-10, Exterior(2R) 8-3-10 to 24-10-6, Interior(1) 24-10-6 to 32-10-3, Exterior(2E) 32-10-3 to 36-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
12) Bearing at joint(s) Q, J considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
13) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) Q and J. This connection is for uplift only and does not consider lateral forces.

Continued on page 2

REGISTERED PROFESSIONAL ENGINEER
93437PE
OREGON
MARCH 13, 2018
ANDREW JOHNSON

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430660
22010709-A	B05	CALIFORNIA	1	1	Job Reference (optional)	

NOTES-

14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
15) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 152 lb down and 170 lb up at 13-11-0, 102 lb down and 103 lb up at 16-0-0, and 139 lb down and 109 lb up at 16-11-4, and 138 lb down and 171 lb up at 19-2-14 on top 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-C=-62, C-F=-62, F-H=-62, H-I=-62, N-Q=-20, M-N=-20, J-M=-20
   Concentrated Loads (lb)
   Vert: W=-69 X=-48 Z=-51 AA=-56

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430661
22010709-A	B06	CALIFORNIA	1	1	Job Reference (optional)	

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:36:01 2022 Page 1
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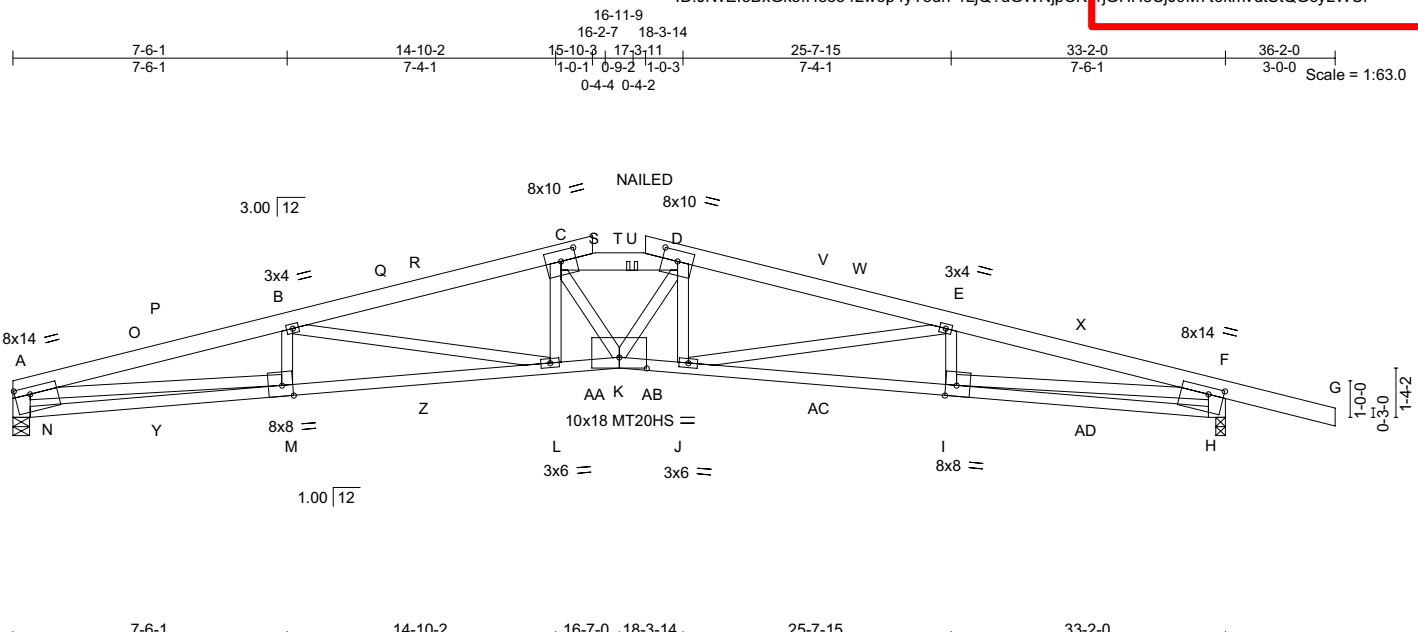

Plate Offsets (X,Y)-- [A:0-5-0,0-2-4], [C:0-5-0,0-3-8], [D:0-5-0,0-3-8], [F:0-5-0,0-2-4], [I:0-3-9,Edge], [K:0-9-0,0-3-9], [M:0-3-9,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.50	K	>780	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-1.09	L-M	>358	180	MT20HS	165/146
TCDL	10.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.38	H	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.24	K	>999	360	Weight: 191 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G *Except*
A-N,F-H: 2x6 DF SS G, A-M,F-I: 2x4 DF No.1&Btr G

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

REACTIONS. (size) N=0-5-8, H=0-3-3
Max Horz N=-77(LC 12)
Max Uplift N=-250(LC 14), H=-398(LC 14)
Max Grav N=1890(LC 38), H=2219(LC 38)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-6006/1300, B-C=-5675/1274, C-D=-5679/1329, D-E=-5634/1259, E-F=-5820/1175, A-N=-1879/455, F-H=-2203/651
BOT CHORD M-N=-143/989, L-M=-1141/5757, K-L=-1053/5476, J-K=-1042/5456, I-J=-1011/5558, H-I=-50/925
WEBS B-M=-335/199, B-L=-553/314, C-L=0/483, C-K=-101/527, D-K=-123/563, D-J=0/470, E-J=-423/372, E-I=-320/207, A-M=-995/4752, F-I=-1072/4617

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-2-13 to 3-6-10, Interior(1) 3-6-10 to 10-3-10, Exterior(2R) 10-3-10 to 22-10-6, Interior(1) 22-10-6 to 32-10-3, Exterior(2E) 32-10-3 to 36-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
12) Bearing at joint(s) N, H considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
13) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) N and H. This connection is for uplift only and does not consider lateral forces.

EXPIRES: 06/30/2023
November 9,2022

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430661
22010709-A	B06	CALIFORNIA	1	1	Job Reference (optional)	

NOTES-

14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
15) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
16) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 148 lb down and 118 lb up at 15-11-0, and 135 lb down and 116 lb up at 17-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others.
18) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: A-C=-62, C-D=-62, D-F=-62, F-G=-62, K-N=-20, H-K=-20
Concentrated Loads (lb)
Vert: S=-106 U=-117(B=-23)

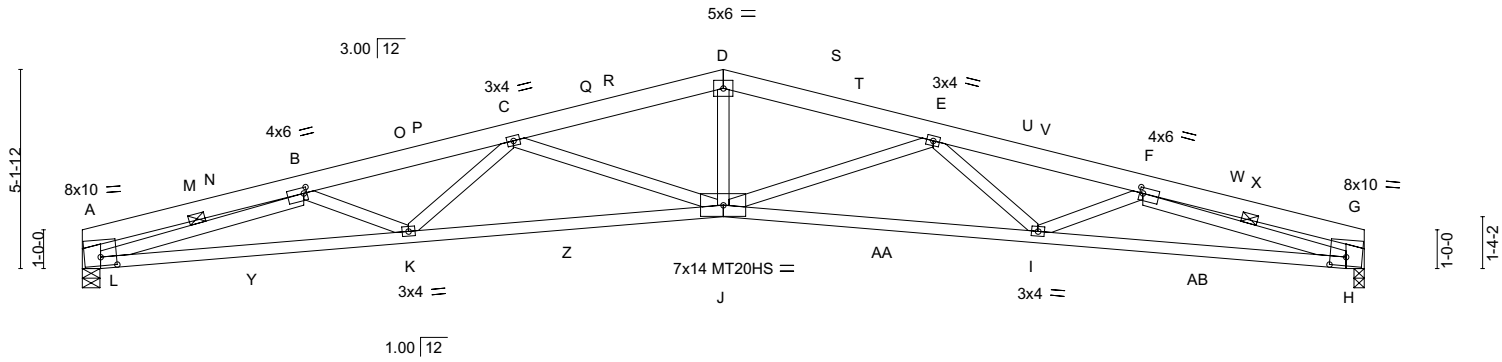
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430662
22010709-A	B07	Scissor	2	1	Job Reference (optional)	

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:36:03 2022 Page 1
ID:JNvEIoBxGkofHe3542w6p4yTouh-1kqAQaImvL3vZT?6IiJXZ8OYKxXtCgJwKmMXKUyLWUg

5-8-11 | 11-1-14 | 16-7-0 | 22-0-2 | 27-5-5 | 33-2-0
5-8-11 | 5-5-2 | 5-5-2 | 5-5-2 | 5-5-2 | 5-8-11

Scale = 1:59.6



8-5-4 | 16-7-0 | 24-8-11 | 33-2-0
8-5-4 | 8-1-11 | 8-1-12 | 8-5-5

Plate Offsets (X,Y)-- [A:0-5-0,0-2-12], [B:0-1-0,0-1-12], [F:0-1-0,0-1-12], [G:0-5-0,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.37	J-K	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-1.03	J-K	>382	180	MT20HS	165/146
TCDL	10.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.40	H	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-AS		Wind(LL)	0.23	I-J	>999	360	Weight: 175 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G
OTHERS 2x6 DF SS G

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt B-L, F-H

REACTIONS. (size) L=0-5-8, H=0-3-3
Max Horz L=71(LC 13)
Max Uplift L=-213(LC 14), H=-213(LC 14)
Max Grav L=1471(LC 2), H=1471(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1204/302, B-C=-4419/1094, C-D=-3749/1009, D-E=-3749/1009, E-F=-4419/1094, F-G=-1204/302, A-L=-619/208, G-H=-619/208
BOT CHORD K-L=-1010/4025, J-K=-1046/4299, I-J=-1046/4299, H-I=-1010/4025
WEBS D-J=-264/1401, E-J=-892/248, E-I=-64/344, F-I=0/384, C-J=-892/248, C-K=-64/344, B-K=0/384, B-L=-3116/830, F-H=-3116/830

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-2-13 to 3-6-10, Interior(1) 3-6-10 to 13-3-3, Exterior(2R) 13-3-3 to 19-10-13, Interior(1) 19-10-13 to 29-7-6, Exterior(2E) 29-7-6 to 32-11-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) All plates are MT20 plates unless otherwise indicated.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
10) Bearing at joint(s) L, H considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) L and H. This connection is for uplift only and does not consider lateral forces.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430662
22010709-A	B07	Scissor	2	1	Job Reference (optional)	

NOTES-

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

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	BLK01	Flat	1	1	R73430663

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:36:15 2022 Page 1
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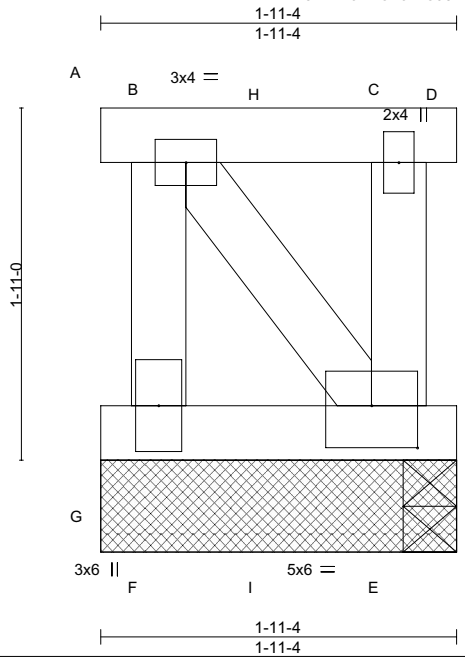


Scale = 1:12.5

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.00	E-F	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.00	E-F	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	-0.01	G	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P		Wind(LL)	0.00	F	****	360		
BCDL	10.0										Weight: 11 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-11-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 1-11-4.
(lb) - Max Horz A=-61(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) except F=-399(LC 32), A=-129(LC 36), E=-535(LC 31), G=-166(LC 64)
Max Grav All reactions 250 lb or less at joint(s) E, G except F=433(LC 35), A=252(LC 58), E=538(LC 36)

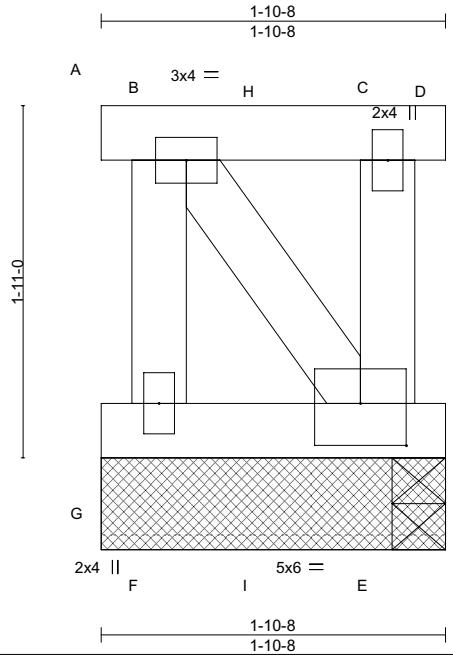
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-F=-403/417, B-C=-351/348, C-E=-269/100
BOT CHORD E-F=-397/394
WEBS B-E=-694/694

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint A.
9) N/A
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-11-4 for 250.0 plf.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	BLK02	Flat	1	1	R73430664
					Job Reference (optional)



Scale = 1:12.5

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

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0		Plate Grip DOL	1.15	TC	0.16	Vert(LL)	-0.00	E-F	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0		Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.00	E-F	>999	180		
TCDL	10.0		Rep Stress Incr	YES	WB	0.26	Horz(CT)	-0.01	G	n/a	n/a		
BCLL	0.0	*	Code	IRC2018/TPI2014	Matrix-P		Wind(LL)	0.00	F	****	360	Weight: 11 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 1-10-8.
(lb) - Max Horz A=-140(LC 30)
Max Uplift All uplift 100 lb or less at joint(s) D except F=-375(LC 32), A=-141(LC 36), E=-479(LC 31), G=-156(LC 66)
Max Grav All reactions 250 lb or less at joint(s) E, G except F=406(LC 35), A=253(LC 58), D=253(LC 64), E=481(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-F=-378/392, B-C=-414/411
BOT CHORD E-F=-383/380
WEBS B-E=-690/690

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
3) Provide adequate drainage to prevent water ponding.
4) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=141.
9) N/A
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	BLK03	Monopitch	1	1	R73430665

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:36:09 2022 Page 1
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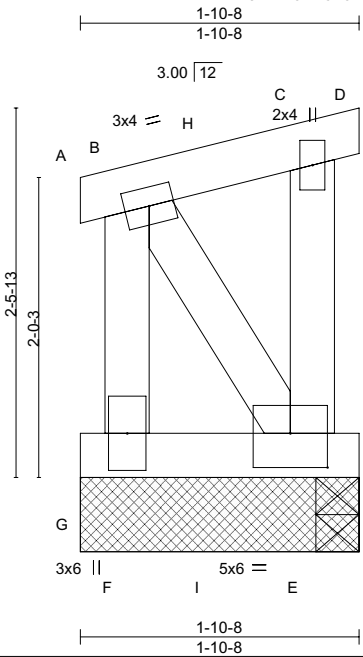

Plate Offsets (X,Y)-- [E:0-3-0,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.00	E-F	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.00	E-F	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	-0.01	G	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P		Wind(LL)	0.00	F	****	360	Weight: 12 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 1-10-8.
(lb) - Max Horz A=163(LC 41)
Max Uplift All uplift 100 lb or less at joint(s) D except A=-198(LC 50), E=-509(LC 39), G=-156(LC 74), F=-467(LC 40)
Max Grav All reactions 250 lb or less at joint(s) E, G except A=253(LC 66), D=254(LC 72), E=505(LC 44), F=515(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-427/410, B-F=-487/484
BOT CHORD E-F=-385/383
WEBS B-E=-751/749

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) A=198.
9) N/A
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	BLK04	Monopitch	1	1	R73430666

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:36:11 2022 Page 1
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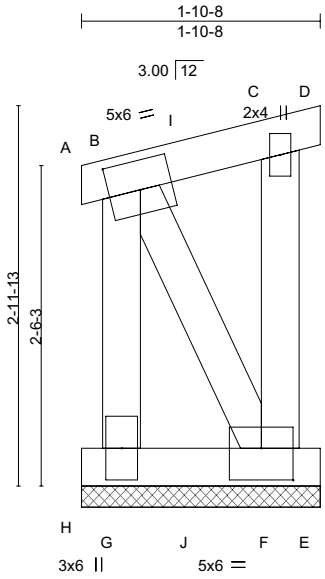

Plate Offsets (X,Y)-- [B:0-3-0,0-2-12], [F:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	-0.02	H	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 14 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 1-10-8.
(lb) - Max Horz A=103(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) D except A=-307(LC 40), F=-762(LC 39), H=-111(LC 74), E=-111(LC 74), G=-646(LC 40)
Max Grav All reactions 250 lb or less at joint(s) H, E except A=312(LC 39), D=255(LC 72), F=780(LC 44), G=685(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-426/407, B-G=-662/660
BOT CHORD F-G=-424/420
WEBS B-F=-1082/1080

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Plates checked for a plus or minus 5 degree rotation about its center.
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.
8) A plate rating reduction of 20% has been applied for the green lumber members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) A=307.
10) N/A
11) N/A
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
14) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	BLK05	Monopitch	1	1	R73430667

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:36:13 2022 Page 1
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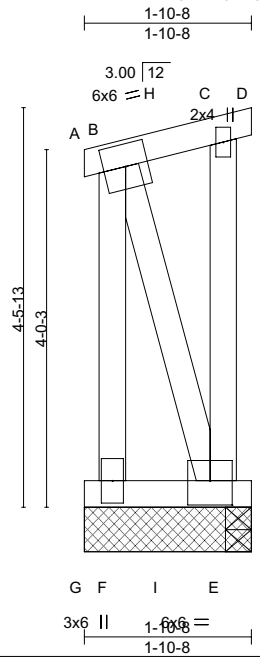


Scale = 1:25.9

Plate Offsets (X,Y)-- [E:0-3-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.00	E-F	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.00	E-F	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	-0.05	G	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P		Wind(LL)	0.00	F	****	360	Weight: 21 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 1-10-8.
(lb) - Max Horz A=238(LC 41)
Max Uplift All uplift 100 lb or less at joint(s) except A=-588(LC 40), D=-111(LC 39), E=-1136(LC 39), G=-156(LC 74), F=-751(LC 40)
Max Grav All reactions 250 lb or less at joint(s) E, G except A=592(LC 43), D=257(LC 72), E=1137(LC 44), F=798(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-335/321, B-C=-440/414, C-E=-309/308, B-F=-769/768
BOT CHORD E-F=-414/409
WEBS B-E=-1494/1490

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 588 lb uplift at joint A, 1136 lb uplift at joint E and 156 lb uplift at joint G.
9) N/A
10) N/A
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
13) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.

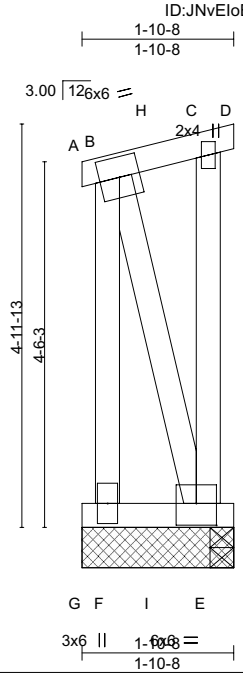
EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	BLK06	Monopitch	1	1	R73430668

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:36:15 2022 Page 1
ID:JNvEIoBxGkofHe3542w6p4yTouh-g2ZjxgRl41aC?Jw[illegible]4EXL2guYXmrC07xh5dG9loyLWUU



Scale = 1:28.5

Plate Offsets (X,Y)-- [E:0-3-0,0-3-4]

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0		Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.00	E-F	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0		Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.00	E-F	>999	180		
TCDL	10.0		Rep Stress Incr	YES	WB	0.65	Horz(CT)	-0.07	G	n/a	n/a		
BCLL	0.0	*	Code	IRC2018/TPI2014	Matrix-P		Wind(LL)	0.00	F	****	360	Weight: 23 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 1-10-8.
(lb) - Max Horz A=179(LC 40)
Max Uplift All uplift 100 lb or less at joint(s) except A=-694(LC 40), E=-1458(LC 39), G=-156(LC 72), F=-835(LC 40)
Max Grav All reactions 250 lb or less at joint(s) E, G except A=699(LC 43), E=1451(LC 44), F=882(LC 43)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-290/274, B-C=-368/338, C-E=-267/219, B-F=-854/852
BOT CHORD E-F=-422/415
WEBS B-E=-1707/1702

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 694 lb uplift at joint A, 1458 lb uplift at joint E and 156 lb uplift at joint G.
9) N/A
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	BLK07	Common	1	1	R73430669
					Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:36:17 2022 Page 1
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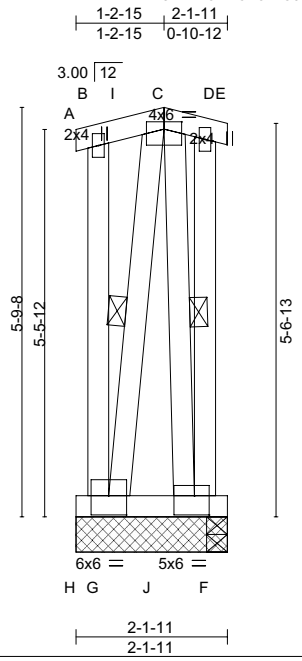


Scale = 1:32.6

Plate Offsets (X,Y)-- [C:0-3-0,0-1-4], [F:0-2-8,0-3-4], [G:0-3-0,0-3-4]

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0		Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.00	F-G	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0		Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.00	F-G	>999	180		
TCDL	10.0		Rep Stress Incr	YES	WB	0.79	Horz(CT)	-0.13	F	n/a	n/a		
BCLL	0.0	*	Code	IRC2018/TPI2014	Matrix-P		Wind(LL)	0.00	G	****	360	Weight: 34 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-1-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt C-G, C-F

REACTIONS. All bearings 2-1-11 except (jt=length) F=0-3-8, F=0-3-8.
(lb) - Max Horz A=262(LC 45)
Max Uplift All uplift 100 lb or less at joint(s) A except E=-162(LC 40), H=-214(LC 81), G=-1990(LC 40), F=-2142(LC 39)
Max Grav All reactions 250 lb or less at joint(s) H, F except A=259(LC 70), E=259(LC 79), G=2050(LC 43), F=2153(LC 44)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-268/261, B-C=-423/401, C-D=-276/271, D-F=-253/254
BOT CHORD F-G=-245/275
WEBS C-G=-2067/2073, C-F=-1901/1909

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A except (jt=lb) G=1990, F=2142.
10) N/A
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
13) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 2-1-11 for 250.0 plf.

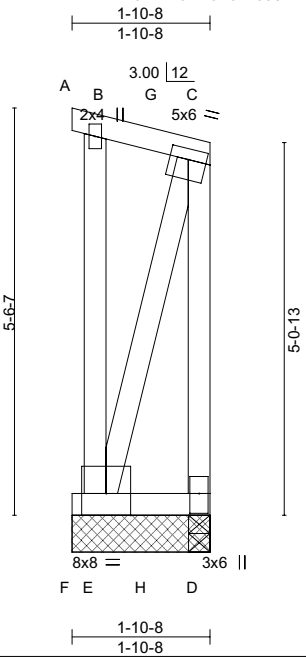
EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	BLK08	Roof Special	1	1	R73430670

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:36:19 2022 Page 1
ID:JNvEIoBxGkofHe3542w6p4yTouh-ZpoDn2Up8F4eUwDBJ5cHDW3DcNC?ytqH0FENuZyLWUQ



Scale = 1:31.3

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.00	D-E	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.00	D-E	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.10	D	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P		Wind(LL)	0.00	E	****	360	Weight: 25 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G *Except*
C-D: 2x4 DF No.1&Btr G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 1-10-8.
(lb) - Max Horz A=-197(LC 38)
Max Uplift All uplift 100 lb or less at joint(s) except E=-1650(LC 40), A=-156(LC 40), F=-184(LC 72), D=-1912(LC 39)
Max Grav All reactions 250 lb or less at joint(s) F, D except E=1687(LC 43), A=257(LC 66), D=1931(LC 44)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-298/309, B-C=-573/553, C-D=-1920/1918
BOT CHORD D-E=-423/416
WEBS C-E=-1870/1864

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1650 lb uplift at joint E, 156 lb uplift at joint A and 1912 lb uplift at joint D.
9) N/A
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	BLK09	Roof Special	1	1	R73430671

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:36:21 2022 Page 1
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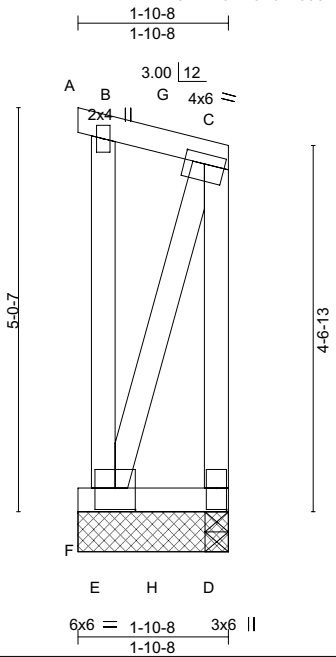

Scale = 1:28.7

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

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0		Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.00	D-E	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0		Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.00	D-E	>999	180		
TCDL	10.0		Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.08	D	n/a	n/a		
BCLL	0.0	*	Code	IRC2018/TPI2014	Matrix-P		Wind(LL)	0.00	E	****	360	Weight: 23 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 1-10-8.
(lb) - Max Horz A=-178(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) except E=-1426(LC 40), A=-159(LC 40), F=-184(LC 72), D=-1691(LC 39)
Max Grav All reactions 250 lb or less at joint(s) F, D except E=1462(LC 43), A=256(LC 66), D=1711(LC 44)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-281/292, B-C=-555/538, C-D=-1700/1698
BOT CHORD D-E=-416/410
WEBS C-E=-1661/1656

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1426 lb uplift at joint E, 159 lb uplift at joint A and 1691 lb uplift at joint D.
9) N/A
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	BLK10	Roof Special	1	1	R73430672

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:36:23 2022 Page 1
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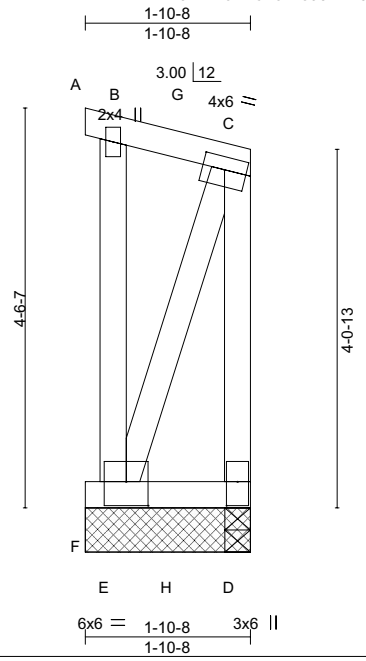

Scale = 1:26.1

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.00	D-E	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.00	D-E	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.06	D	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P		Wind(LL)	0.00	E	****	360	Weight: 21 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 1-10-8.
(lb) - Max Horz A=-159(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except E=-1246(LC 40), A=-133(LC 40), F=-184(LC 72), D=-1484(LC 39)
Max Grav All reactions 250 lb or less at joint(s) F, D except E=1280(LC 43), A=255(LC 66), D=1504(LC 44)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-257/268, B-C=-539/524, C-D=-1493/1491
BOT CHORD D-E=-409/403
WEBS C-E=-1461/1457

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1246 lb uplift at joint E, 133 lb uplift at joint A and 1484 lb uplift at joint D.
9) N/A
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
12) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	BLK11	Roof Special	1	1	R73430673

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:36:25 2022 Page 1
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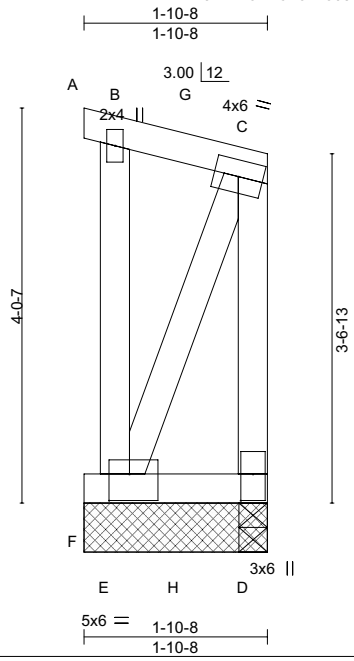

Scale = 1:23.6

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.00	D-E	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.00	D-E	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.04	D	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P		Wind(LL)	0.00	E	****	360	Weight: 19 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 1-10-8.
(lb) - Max Horz A=-141(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except E=-1071(LC 40), A=-109(LC 44), F=-184(LC 72), D=-1283(LC 39)
Max Grav All reactions 250 lb or less at joint(s) F, D except E=1103(LC 43), A=255(LC 66), D=1303(LC 44)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-523/510, C-D=-1292/1290
BOT CHORD D-E=-401/396
WEBS C-E=-1270/1266

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 109 lb uplift at joint A and 1283 lb uplift at joint D.
9) N/A
10) N/A
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
13) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	BLK12	Roof Special	1	1	R73430674

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:36:27 2022 Page 1
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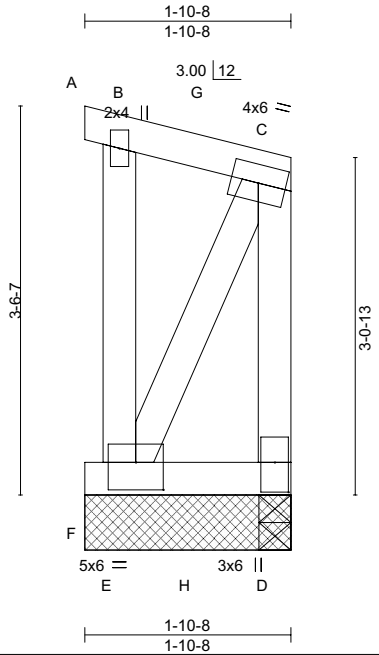

Scale = 1:21.0

Plate Offsets (X,Y)-- [D:0-3-4,0-1-8], [E:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.00	D-E	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.00	D-E	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.02	D	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P		Wind(LL)	0.00	E	****	360	Weight: 17 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 1-10-8.
(lb) - Max Horz A=-122(LC 39)
Max Uplift All uplift 100 lb or less at joint(s) A except E=-900(LC 40), F=-184(LC 72), D=-1089(LC 39)
Max Grav All reactions 250 lb or less at joint(s) F, D except E=931(LC 43), A=254(LC 66), D=1109(LC 44)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-506/496, C-D=-1097/1095
BOT CHORD D-E=-394/390
WEBS C-E=-1089/1085

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A except (jt=lb) D=1089.
9) N/A
10) N/A
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
13) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	BLK13	Roof Special	1	1	R73430675

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:36:28 2022 Page 1
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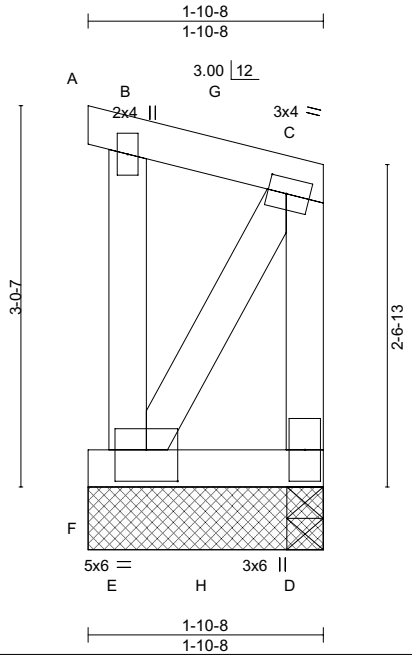


Scale = 1:18.4

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.00	D-E	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.00	D-E	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.02	D	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P		Wind(LL)	0.00	E	****	360	Weight: 15 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 1-10-8.
(lb) - Max Horz A=-103(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) A except E=-734(LC 40), F=-184(LC 72), D=-900(LC 39)
Max Grav All reactions 250 lb or less at joint(s) F, D except E=763(LC 43), A=253(LC 66), D=920(LC 44)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-490/491, C-D=-909/907
BOT CHORD D-E=-387/383
WEBS C-E=-919/916

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A.
9) N/A
10) N/A
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
13) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-10-8 for 250.0 plf.

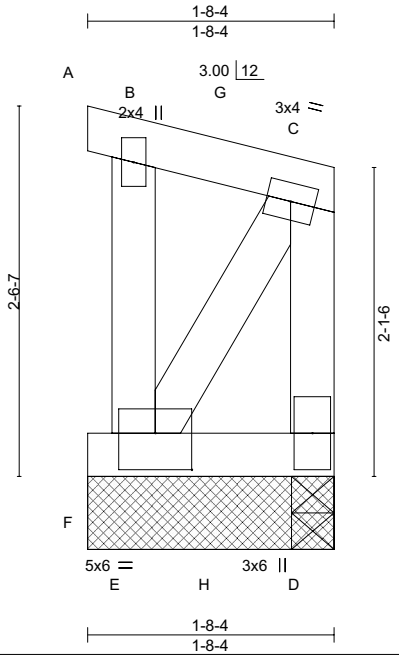
EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	BLK14	Roof Special	1	1	R73430676

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:36:30 2022 Page 1
ID:JNvEloBxGkofHe3542w6p4yTouh-kwzO4pdiYeT4-cZIStls9r0A3pzI1?EuXTOSnQyLWUF



Scale = 1:15.8

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.00	E	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.00	D-E	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.01	D	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P		Wind(LL)	0.00	E	****	360	Weight: 12 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-8-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 1-8-4.
(lb) - Max Horz A=-84(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) A except E=-597(LC 40), F=-153(LC 72), D=-743(LC 39)
Max Grav All reactions 250 lb or less at joint(s) F, D except E=621(LC 43), A=254(LC 66), D=760(LC 44)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-434/424, C-D=-750/749
BOT CHORD D-E=-333/330
WEBS C-E=-769/766

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A.
9) N/A
10) N/A
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
13) This truss has been designed for a total drag load of 250 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 1-8-4 for 250.0 plf.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430677
22010709-A	C01	Common	1	1	Job Reference (optional)	

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:36:32 2022 Page 1
ID:JNvEIoBxGkofHe3542w6p4yTouh-gJ58VUey4FjoYvjhaILKEG5Q9dUJVlfB?ntZsJyLWUD

5-8-11	11-1-14	16-7-0	20-6-12	24-10-0
5-8-11	5-5-2	5-5-2	3-11-12	4-3-5

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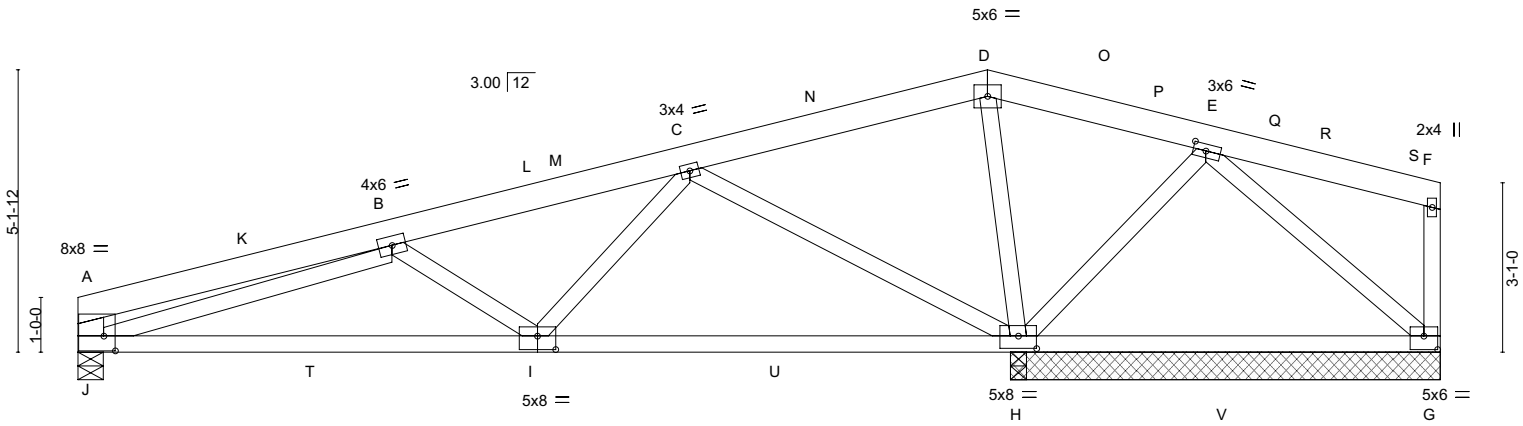

8-4-8	16-7-0	17-3-8	24-10-0
8-4-8	8-2-8	0-8-8	7-6-8

Plate Offsets (X,Y)-- [A:0-2-8,0-3-4], [E:0-2-12,0-1-8], [G:0-3-0,0-3-0], [H:0-4-0,0-2-12], [I:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.33	H-I	>623	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.46	H-I	>438	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.02	H	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.05	I	>999	360	Weight: 141 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G *Except*
A-J: 2x6 DF SS G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-6-14 oc bracing.

REACTIONS. All bearings 7-10-0 except (jt=length) J=0-5-8.
(lb) - Max Horz J=136(LC 44)
Max Uplift All uplift 100 lb or less at joint(s) except H=-832(LC 38), J=-601(LC 38), G=-903(LC 43)
Max Grav All reactions 250 lb or less at joint(s) except H=1857(LC 35), H=1572(LC 1), J=851(LC 35), G=878(LC 38)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-615/512, B-C=-1178/850, C-D=-489/804, D-E=-935/1209, E-F=-568/572, A-J=-353/191, F-G=-289/79
BOT CHORD I-J=-1414/1744, H-I=-665/758, G-H=-1038/984
WEBS B-I=-449/428, C-I=-206/592, C-H=-1103/392, D-H=-625/285, E-H=-947/820, B-J=-1378/1286, E-G=-1274/1425

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-2-13 to 3-2-13, Interior(1) 3-2-13 to 13-7-0, Exterior(2R) 13-7-0 to 19-7-0, Interior(1) 19-7-0 to 21-8-4, Exterior(2E) 21-8-4 to 24-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Two RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) H, G, J, and . This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
12) This truss has been designed for a total drag load of 125 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 24-10-0 for 125.0 plf.

EXPIRES: 06/30/2023
November 9,2022

Continued on page 2

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430677
22010709-A	C01	Common	1	1	Job Reference (optional)	

NOTES-

13) Double installations of RT7 require the two hurricane ties to be installed on opposite sides of top plate to avoid nail interference in single ply truss.

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	C02	Roof Special	5	1	R73430678

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:36:35 2022 Page 1
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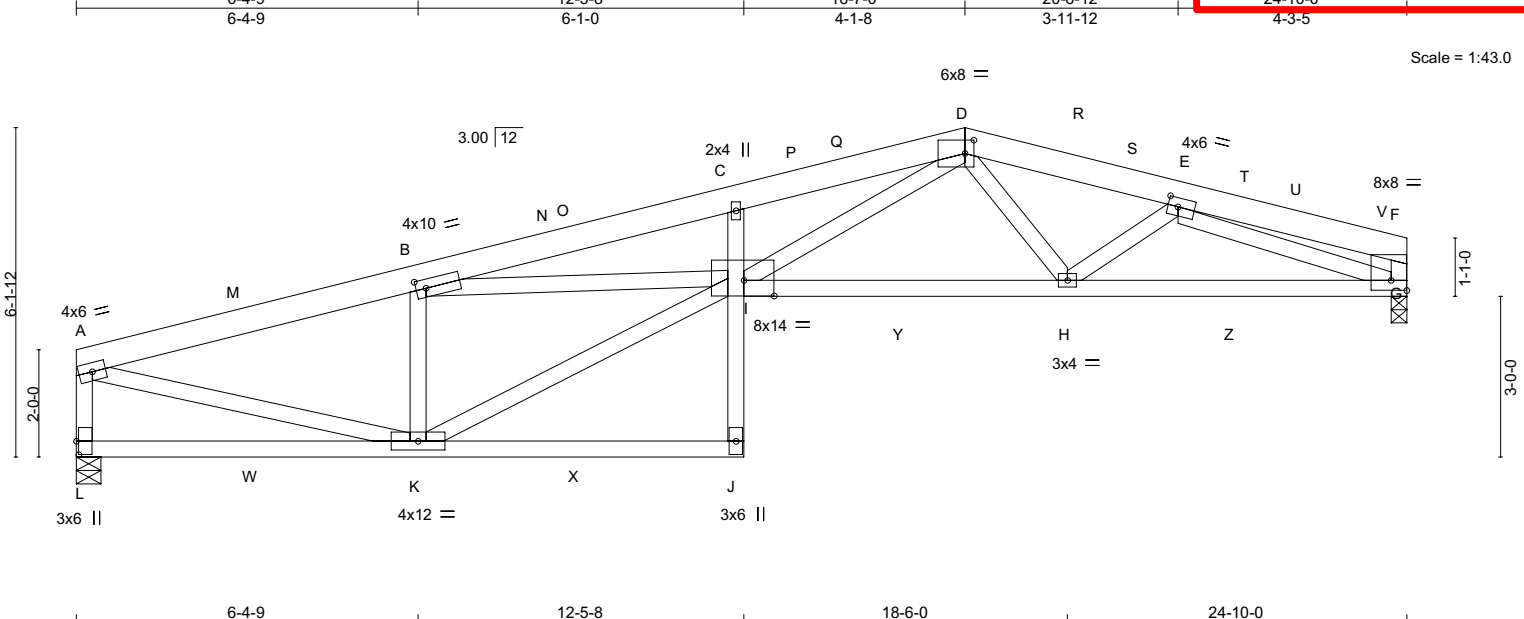


Plate Offsets (X,Y)-- [B:0-2-4,0-2-0], [D:0-2-0,0-3-0], [E:0-2-4,0-2-0], [F:0-3-8,0-2-4], [I:0-6-12,0-3-8], [L:0-3-0,0-0-8]

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0		Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.19	I	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0		Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.52	H-I	>571	180		
TCDL	10.0		Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.19	G	n/a	n/a		
BCLL	0.0 *		Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.14	I	>999	360	Weight: 148 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G *Except*
C-J: 2x4 DF Stud/Std G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-9-13 oc bracing.

REACTIONS. (size) L=0-5-8, G=0-3-8
Max Horz L=94(LC 14)
Max Uplift L=-173(LC 10), G=-167(LC 14)
Max Grav L=1104(LC 2), G=1104(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1805/459, B-C=-4049/1125, C-D=-4050/1167, D-E=-2303/655, E-F=-360/104, A-L=-1044/301, F-G=-360/109
BOT CHORD I-J=0/306, C-I=-324/147, H-I=-576/2204, G-H=-578/2088
WEBS B-K=-1142/416, I-K=-512/1857, B-I=-576/2173, D-I=-551/2161, D-H=-78/281, E-H=-42/315, A-K=-377/1681, E-G=-1949/579

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-13 to 3-1-13, Interior(1) 3-1-13 to 13-7-0, Exterior(2R) 13-7-0 to 19-7-0, Interior(1) 19-7-0 to 21-8-4, Exterior(2E) 21-8-4 to 24-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) L, G, and . This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

City of Portland
Reviewed for code compliance
Date: 04/16/24
Project #: 22-199131-DFS-01-RS

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	C03	California	1	1	Job Reference (optional)

Trus-Way, Inc., Vancouver, WA 98668 — 8.610 s May 25 2022 MiTek Industries, Inc. Tue Nov 8 10:10:07 2022 Page 1

ID:JNvEIoBxGkofHe3542w6p4yTouh-SgLymyQOE44vp

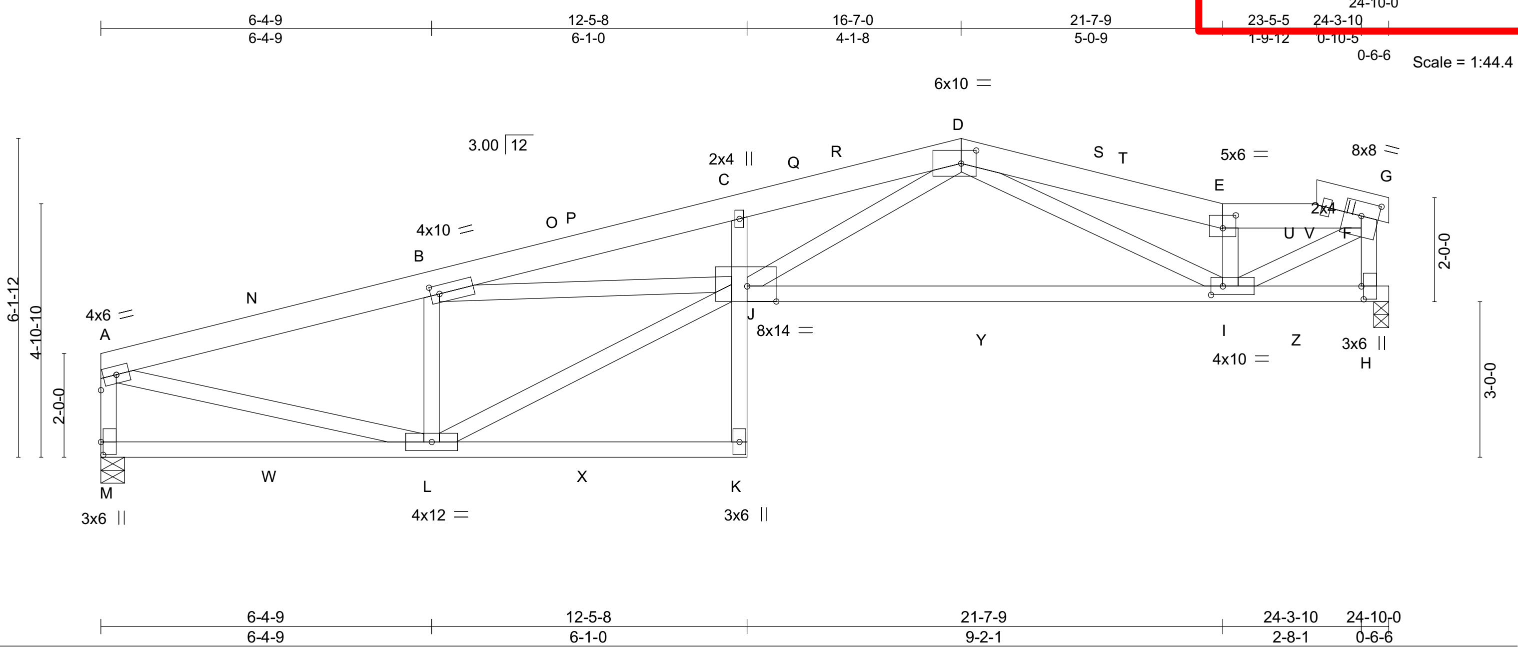


Plate Offsets (X,Y)-- [A:0-4-5,0-2-9], [B:0-2-0,0-2-0], [D:0-3-8,0-3-0], [E:0-3-0,0-3-0], [F:0-4-0,0-3-4], [H:0-3-0,0-0-9], [I:0-2-12,0-2-0], [J:0-6-12,0-3-8], [M:0-3-0,0-0-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.39	I-J	>743	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.94	I-J	>312	180		
TCDL	10.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.17	H	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS		Wind(LL)	0.13	J	>999	360	Weight: 150 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G *Except*
C-K: 2x4 DF Stud/Std G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: I-J.

REACTIONS. (size) M=0-5-8, H=0-3-8
Max Horz M=147(LC 14)
Max Uplift M=-169(LC 10), H=-246(LC 14)
Max Grav M=1096(LC 2), H=1169(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1788/435, B-C=-4038/1150, C-D=-4077/1180, D-E=-2002/542, E-F=-1843/467, A-M=-1035/289
BOT CHORD J-K=0/305, C-J=-334/142, I-J=-669/2121
WEBS B-L=-1133/431, J-L=-558/1849, B-J=-624/2188, D-J=-537/2257, D-I=-351/252, E-I=-785/285, F-I=-511/2007, A-L=-354/1665, F-H=-1200/359

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 13-7-0, Exterior(2R) 13-7-0 to 19-7-0, Interior(1) 19-7-0 to 21-7-9, Exterior(2R) 21-7-9 to 24-3-10, Exterior(2E) 24-3-10 to 24-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) M and H. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 153 lb down and 120 lb up at 23-4-7 on top chord. The design/selection of such connection device(s) is the responsibility of others.

REGISTERED PROFESSIONAL ENGINEER
93437PE
OREGON
MARCH 13, 2018
ANDREW JOHNSON
EXPIRES: 06/30/2023

November 9,2022

Continued on page 2

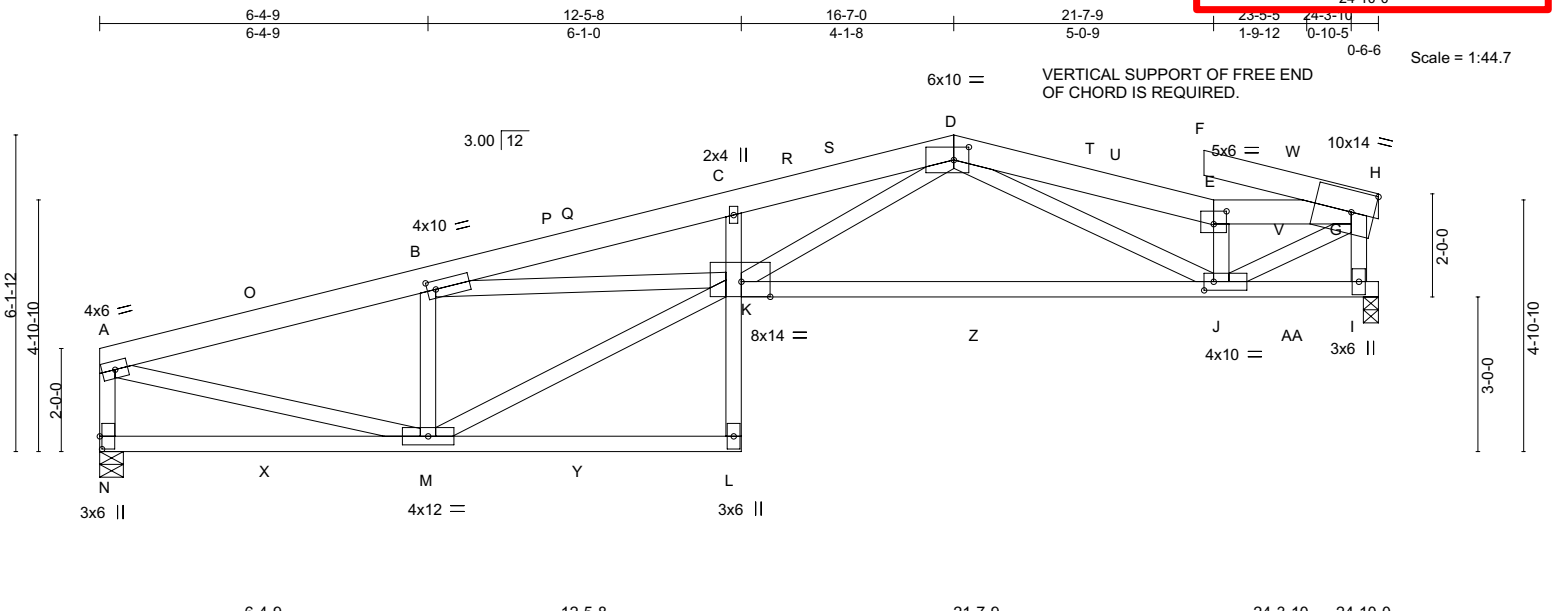
Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	C03	California	1	1	Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-D=-62, D-E=-62, E-F=-62, F-G=-62, K-M=-20, H-J=-20
   Concentrated Loads (lb)
   Vert: V=-112

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430680
22010709-A	C04	California	1	1	Job Reference (optional)	

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:36:41 2022 Page 1
ID:JNvEloBxGkofHe3542w6p4yTouh-v27YOZlcy0sW7IvOch?R69z?1FVw6oxW3gZXgIyLWU4



6-4-9	12-5-8	21-7-9	24-3-10	24-10-0
6-4-9	6-1-0	9-2-1	2-8-1	0-6-6

Plate Offsets (X,Y)-- [B:0-2-0,0-2-0], [D:0-3-8,0-3-0], [E:0-3-0,0-3-0], [J:0-2-4,0-2-0], [K:0-6-12,0-3-8], [N:0-3-0,0-0-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.39	J-K	>743	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.94	J-K	>310	180		
TCDL	10.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.17	I	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.14	K	>999	360	Weight: 155 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G *Except*
C-L: 2x4 DF Stud/Std G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: J-K.

REACTIONS. (size) N=0-5-8, I=0-3-8
Max Horz N=-82(LC 12)
Max Uplift N=-180(LC 10), I=-365(LC 14)
Max Grav N=1106(LC 2), I=1468(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1810/545, B-C=-4073/1293, C-D=-4104/1325, D-E=-2253/1091, E-G=-2037/961, A-N=-1046/344
BOT CHORD K-L=0/305, C-K=-335/139, J-K=-697/2185
WEBS B-M=-1149/440, K-M=-515/1872, B-K=-656/2195, D-K=-499/2259, D-J=-357/367, E-J=-1128/670, G-J=-879/2200, A-M=-460/1687, G-I=-1495/692

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-13 to 3-1-13, Interior(1) 3-1-13 to 13-7-0, Exterior(2R) 13-7-0 to 19-7-0, Interior(1) 19-7-0 to 21-7-9, Exterior(2R) 21-7-9 to 21-10-0, Exterior(2E) 21-10-0 to 24-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) N and I. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430681
22010709-A	C05	California	1	1	Job Reference (optional)	

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:36:43 2022 Page 1
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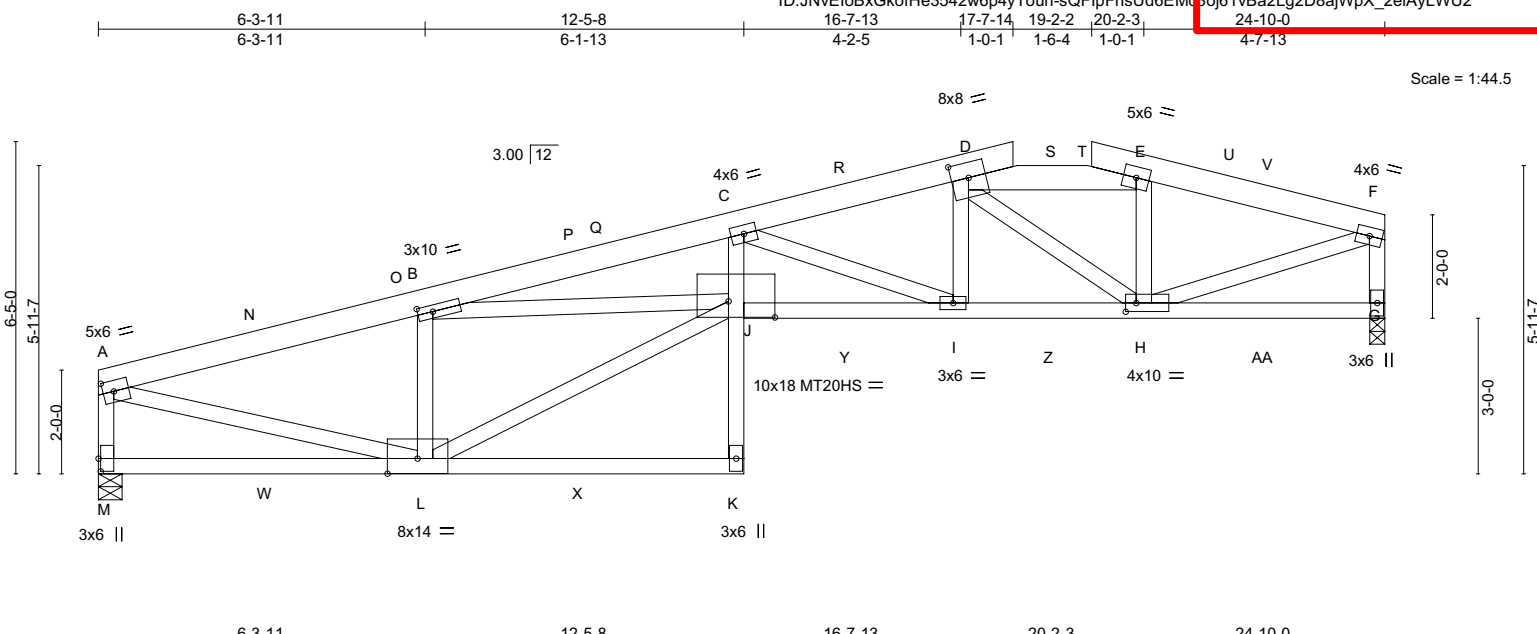

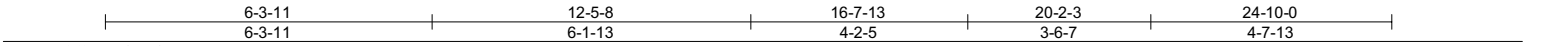

Plate Offsets (X,Y)-- [A:0-2-8,0-2-8], [B:0-3-8,0-1-8], [D:0-4-0,0-3-8], [H:0-2-8,0-2-0], [J:0-10-12,0-3-12], [L:0-6-15,0-3-8], [M:0-3-0,0-0-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.28	K	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.61	K	>480	180	MT20HS	165/146
TCDL	10.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.23	G	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.16	K	>999	360	Weight: 157 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G *Except*
C-K: 2x4 DF Stud/Std G
WEBS 2x4 DF Stud/Std G *Except*
J-L,B-J: 2x4 DF No.1&Btr G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-7 oc bracing.

REACTIONS. (size) M=0-5-8, G=0-3-8
Max Horz M=124(LC 11)
Max Uplift M=-189(LC 10), G=-207(LC 14)
Max Grav M=1371(LC 37), G=1356(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-2233/492, B-C=-5263/1333, C-D=-2967/825, D-E=-1825/558, E-F=-1921/554, A-M=-1309/317, F-G=-1304/385
BOT CHORD J-K=0/307, C-J=-215/1191, I-J=-1258/5059, H-I=-721/2842
WEBS B-L=-1470/453, J-L=-562/2303, B-J=-745/2911, C-I=-2325/567, D-I=-139/853, D-H=-1290/341, E-H=-25/257, A-L=-411/2083, F-H=-493/1859

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 12-3-12, Exterior(2R) 12-3-12 to 21-8-4, Exterior(2E) 21-8-4 to 24-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
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) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
11) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) M and G. This connection is for uplift only and does not consider lateral forces.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

Continued on page 2

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430681
22010709-A	C05	California	1	1	Job Reference (optional)	

NOTES-

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 158 lb down and 94 lb up at 19-1-5 on top 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=-62, D-E=-62, E-F=-62, K-M=-20, G-J=-20
   Concentrated Loads (lb)
   Vert: T=-138

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	D01	Roof Special	1	1	R73490682 Job Reference (optional)

Trus-Way, Inc., Vancouver, WA 98668

8.610 s May 25 2022 MiTek Industries, Inc. Tue Nov 8 10:11:06 2022 Page 1

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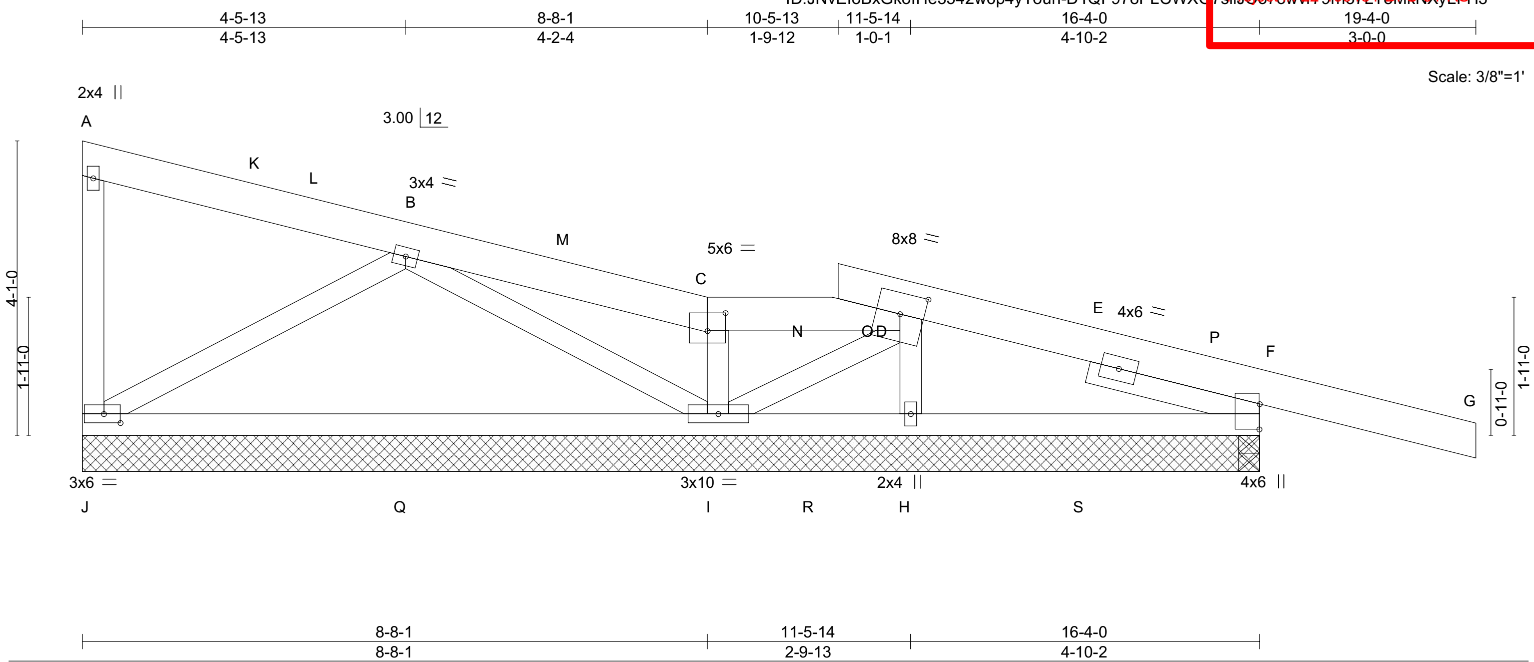

Plate Offsets (X,Y)-- [C:0-3-0,0-3-0], [D:0-4-0,0-3-8], [F:0-4-3,0-0-1], [J:0-2-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.29	I-J	>359	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.53	I-J	>196	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.01	F	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	-0.01	I-J	>999	360	Weight: 96 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G
SLIDER Right 2x4 DF Stud/Std -G- 2-5-7

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. All bearings 16-4-0.
(lb) - Max Horz J=-154(LC 44)
Max Uplift All uplift 100 lb or less at joint(s) except J=-232(LC 41), F=-449(LC 42), I=-164(LC 42), H=-325(LC 42)
Max Grav All reactions 250 lb or less at joint(s) except J=474(LC 70), F=657(LC 70), F=450(LC 1), I=657(LC 20), H=366(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-J=-288/75, A-B=-614/580, B-C=-316/337, C-D=-559/550, D-F=-676/644
BOT CHORD I-J=-856/944, H-I=-329/382, F-H=-573/637
WEBS B-J=-531/461, C-I=-323/198, D-I=-705/718, D-H=-344/351, B-I=-798/776

NOTES-

1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-13 to 3-1-13, Interior(1) 3-1-13 to 8-8-1, Exterior(2R) 8-8-1 to 15-7-1, Interior(1) 15-7-1 to 16-4-0, Exterior(2E) 16-4-0 to 19-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint J, 449 lb uplift at joint F, 164 lb uplift at joint I and 325 lb uplift at joint H.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
13) This truss has been designed for a total drag load of 125 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 16-4-0 for 125.0 plf.

REGISTERED PROFESSIONAL ENGINEER
93437PE
OREGON
MARCH 13, 2018
ANDREW JOHNSON
EXPIRES: 06/30/2023

November 9,2022

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	D02	California	1	1	R73430683

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:36:48 2022 Page 1
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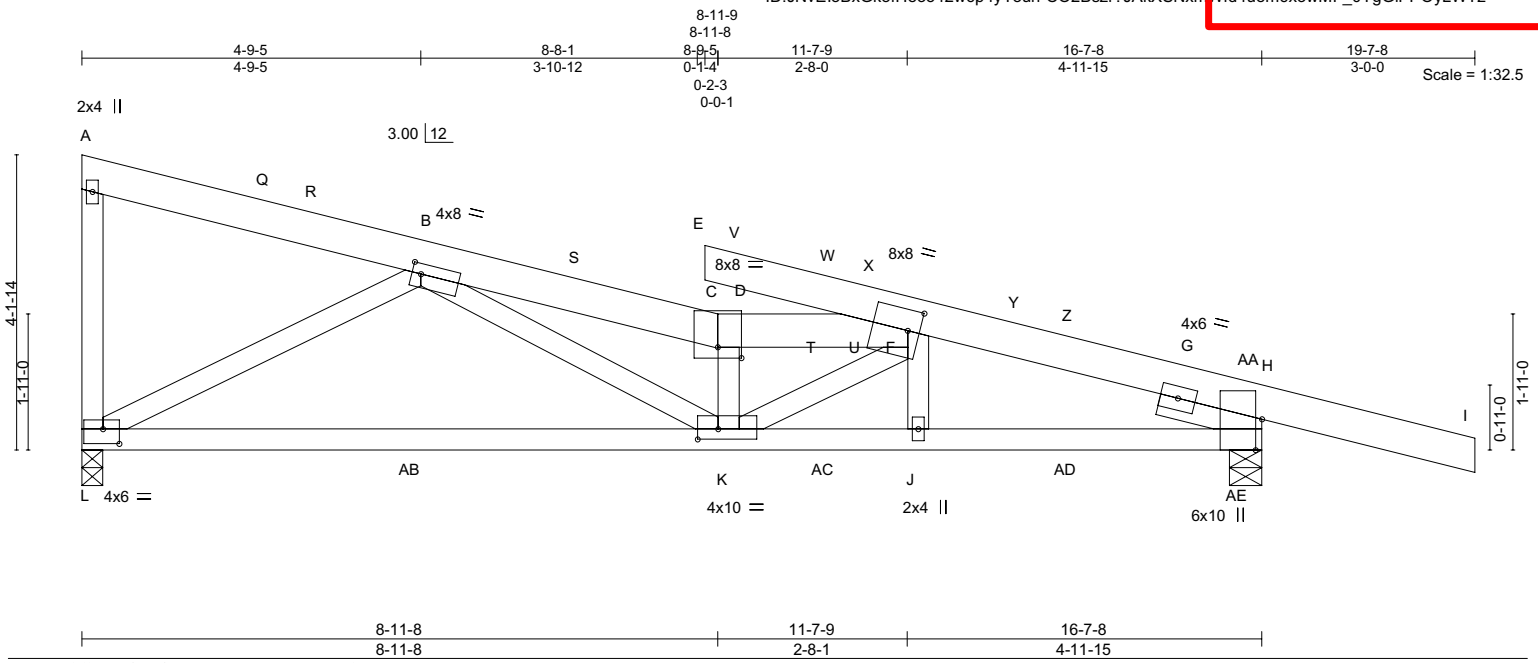

Plate Offsets (X,Y)-- [B:0-1-8,0-1-12], [C:0-4-0,0-1-13], [F:0-2-0,0-3-8], [H:0-5-3,Edge], [K:0-3-8,0-1-12], [L:0-2-12,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.34	K-L	>590	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.68	K-L	>289	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.05	H	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.11	J-K	>999	360	Weight: 101 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G
SLIDER Right 2x4 DF Stud/Std -G- 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-5 oc bracing.

REACTIONS. (size) L=0-3-8, H=0-5-8
Max Horz L=-193(LC 10)
Max Uplift L=-165(LC 11), H=-323(LC 11)
Max Grav L=1022(LC 36), H=1418(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-L=-286/74, B-C=-3243/1718, C-D=-3133/1649, D-F=-3133/1649, F-H=-2407/1253
BOT CHORD K-L=-395/1410, J-K=-1135/2315, H-J=-1122/2300
WEBS B-L=-1584/785, D-K=-1323/805, F-K=-295/958, B-K=-1153/2065

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-13 to 3-1-13, Interior(1) 3-1-13 to 8-11-8, Exterior(2R) 8-11-8 to 13-0-4, Interior(1) 13-0-4 to 16-7-8, Exterior(2E) 16-7-8 to 19-7-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) L and H. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430684
22010709-A	D03	California	1	1	Job Reference (optional)	

City of Portland
Reviewed for code compliance
Date: 04/16/24

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:36:51 2022 Page 1
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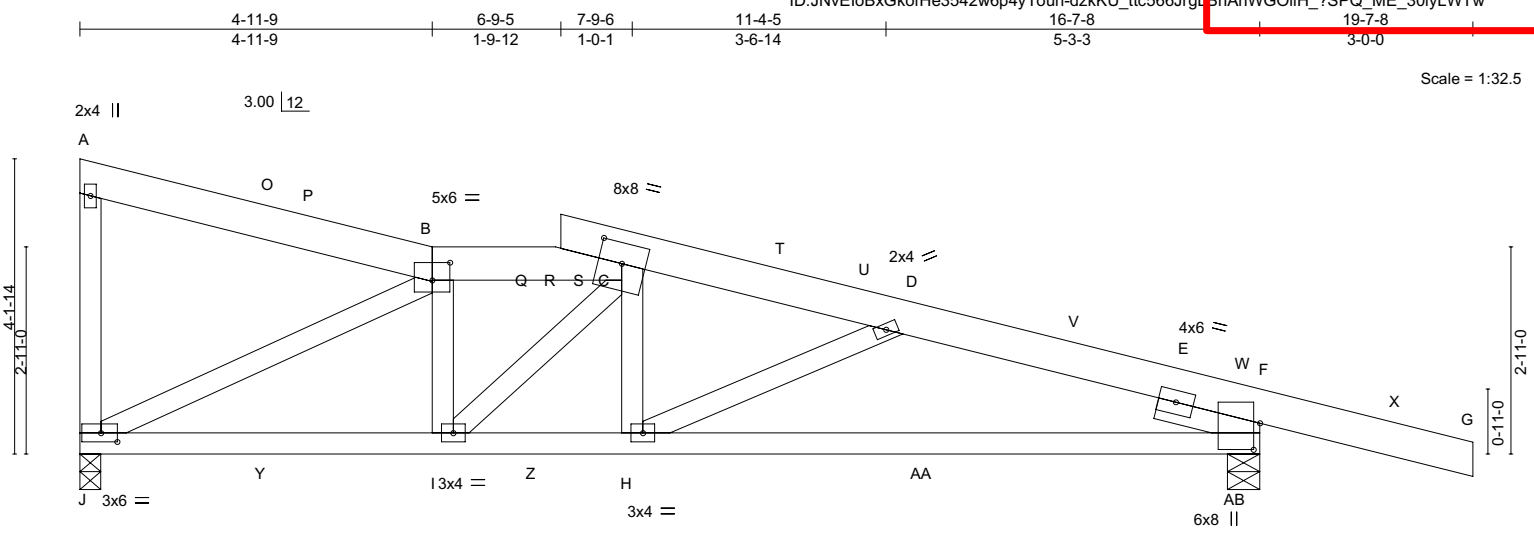

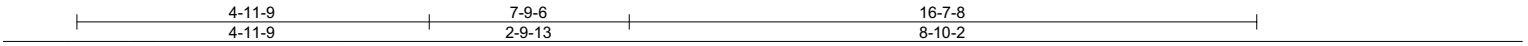

Plate Offsets (X,Y)-- [B:0-3-0,0-3-0], [C:0-4-0,0-3-8], [F:0-4-7,0-1-1], [J:0-2-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.18	H-M	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.33	H-M	>594	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.04	F	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.03	H	>999	360	Weight: 99 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G
SLIDER Right 2x4 DF Stud/Std -G- 1-6-0

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) J=0-3-8, F=0-5-8
Max Horz J=-160(LC 12)
Max Uplift J=-155(LC 11), F=-295(LC 11)
Max Grav J=846(LC 36), F=1203(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-J=-300/93, B-C=-1135/406, C-D=-1403/440, D-F=-1573/435
BOT CHORD I-J=-250/1118, H-I=-311/1353, F-H=-304/1445
WEBS B-J=-1245/436, B-I=-37/337, C-I=-357/84, C-H=0/348

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-11-9, Exterior(2R) 4-11-9 to 11-11-4, Interior(1) 11-11-4 to 16-7-8, Exterior(2E) 16-7-8 to 19-7-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) J and F. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 136 lb down and 129 lb up at 6-8-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430684
22010709-A	D03	California	1	1	Job Reference (optional)	

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-B=-62, B-C=-62, C-G=-62, J-K=-20
   Concentrated Loads (lb)
   Vert: R=-28

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430685
22010709-A	D04	California	1	1	Job Reference (optional)	

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:36:54 2022 Page 1
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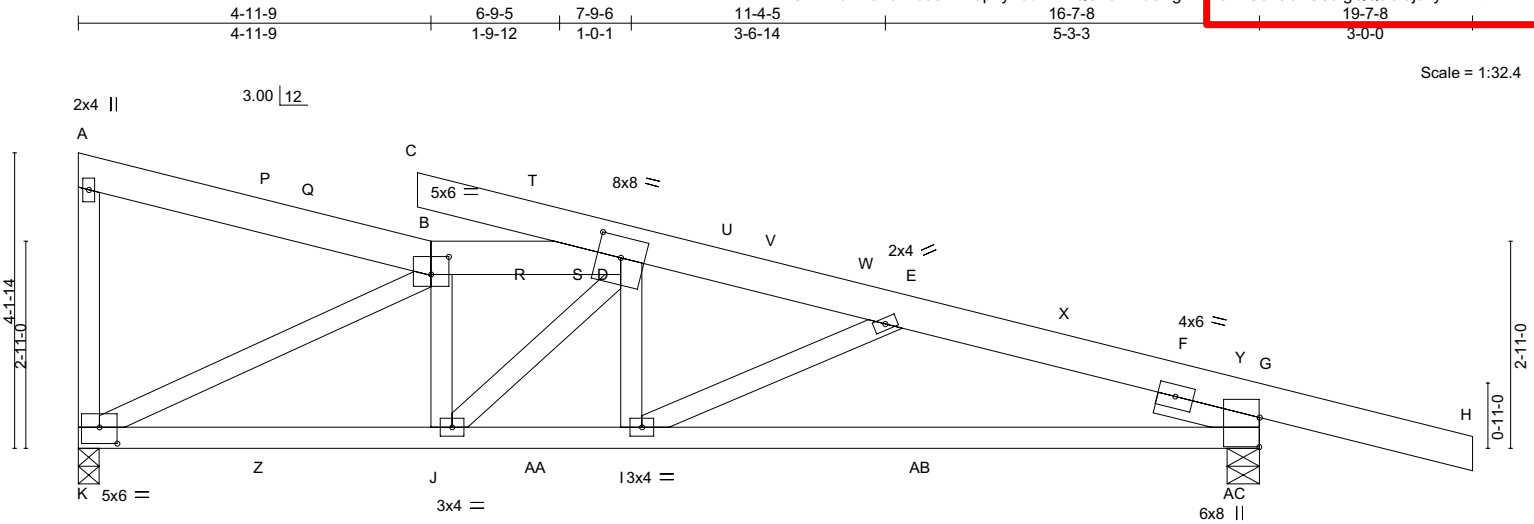

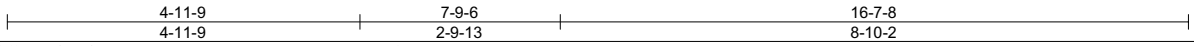

Plate Offsets (X,Y)-- [B:0-3-0,0-3-0], [D:0-4-0,0-3-8], [G:0-4-15,0-0-1], [K:0-3-0,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.18	I-N	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.34	I-N	>587	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.05	G	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.05	I	>999	360	Weight: 104 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G
SLIDER Right 2x4 DF Stud/Std -G- 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-1-6 oc bracing.

REACTIONS. (size) K=0-3-8, G=0-5-8
Max Horz K=-193(LC 10)
Max Uplift K=-184(LC 14), G=-288(LC 11)
Max Grav K=1095(LC 36), G=1346(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-K=-299/89, B-D=-1638/957, D-E=-2010/971, E-G=-1933/659
BOT CHORD J-K=-642/1614, I-J=-872/1979, G-I=-510/1781
WEBS B-K=-1805/1046, B-J=-195/415, D-J=-494/310, D-I=-47/329, E-I=-382/371

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-13 to 3-1-13, Interior(1) 3-1-13 to 4-11-9, Exterior(2R) 4-11-9 to 9-0-4, Interior(1) 9-0-4 to 16-7-8, Exterior(2E) 16-7-8 to 19-7-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) K and G. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	D05	Roof Special	1	1	R73430686

Job Reference (optional)

City of Portland
Reviewed for code compliance
Date: 04/16/24

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:36:56 2022 Page 1
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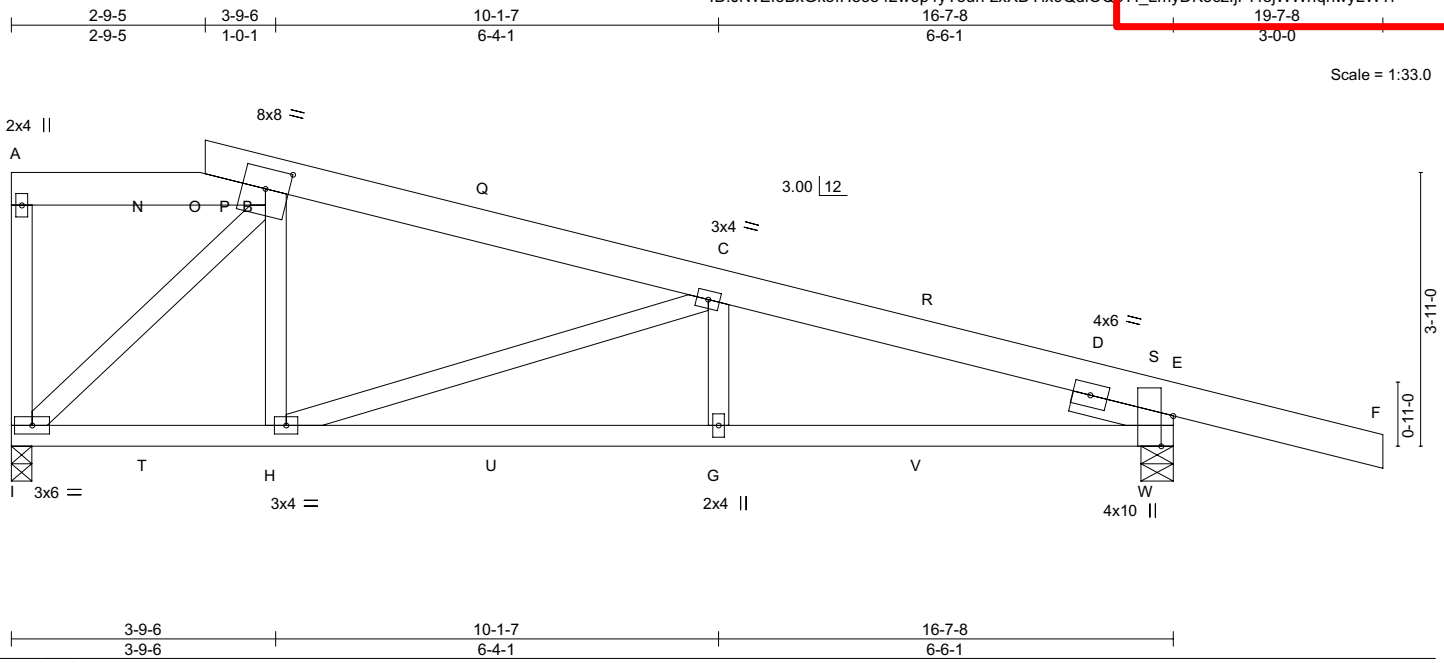

Plate Offsets (X,Y)-- [B:0-4-0,0-3-8], [E:0-5-3,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.14	G-H	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.26	G-H	>759	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.05	E	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.04	G-H	>999	360	Weight: 97 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G
SLIDER Right 2x4 DF Stud/Std -G- 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) E=0-5-8, I=0-3-8
Max Horz I=-152(LC 12)
Max Uplift E=-285(LC 11), I=-162(LC 11)
Max Grav E=1236(LC 34), I=841(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-I=-283/70, B-C=-854/258, C-E=-1740/332
BOT CHORD H-I=-94/773, G-H=-212/1607, E-G=-212/1607
WEBS B-I=-1094/308, B-H=0/454, C-H=-863/160, C-G=0/349

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Exterior(2R) 3-1-12 to 6-7-10, Interior(1) 6-7-10 to 16-7-8, Exterior(2E) 16-7-8 to 19-7-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) E and I. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 147 lb down and 151 lb up at 2-8-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430686
22010709-A	D05	Roof Special	1	1	Job Reference (optional)	

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-B=-62, B-F=-62, I-J=-20
   Concentrated Loads (lb)
   Vert: O=-106

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	D06	Roof Special	1	1	R73430687

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:36:58 2022 Page 1
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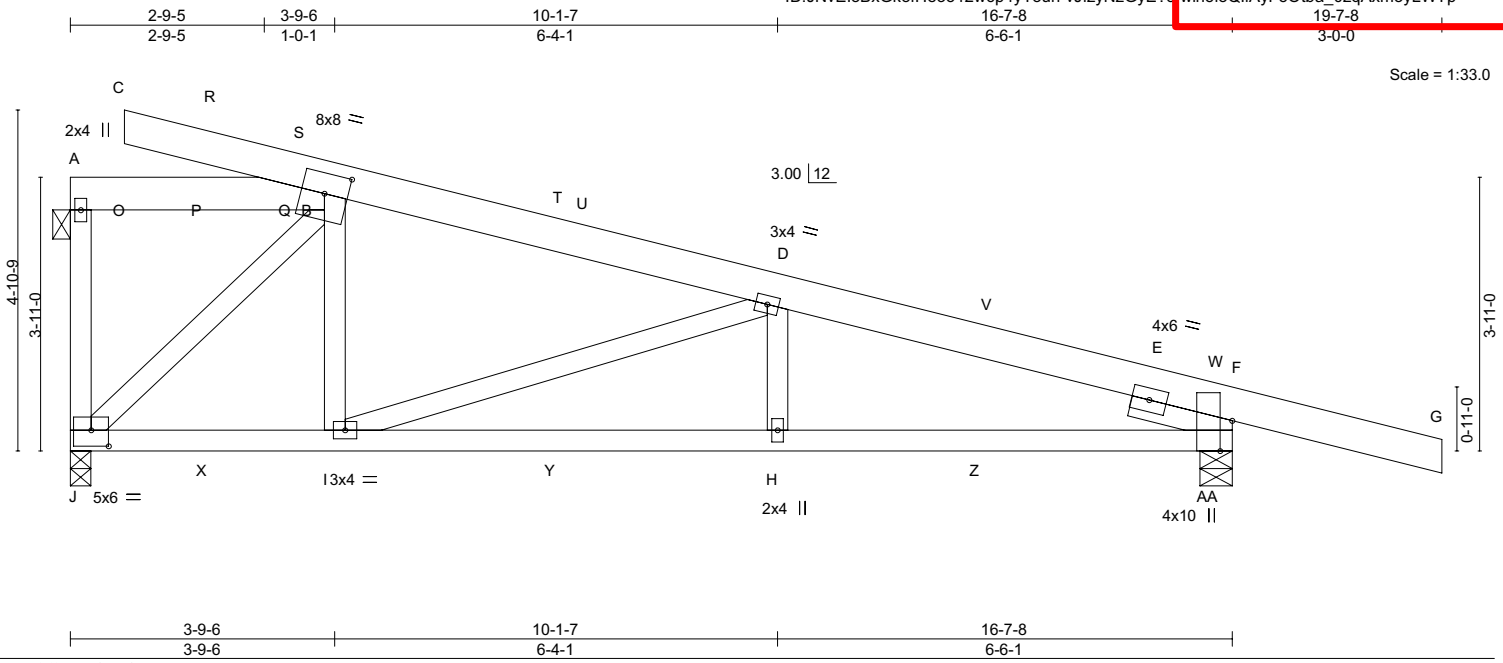

Plate Offsets (X,Y)-- [B:0-4-0,0-3-8], [F:0-5-3,Edge], [J:0-3-0,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.14	H-I	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.26	H-I	>761	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.05	F	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.04	H-I	>999	360	Weight: 102 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G
SLIDER Right 2x4 DF Stud/Std -G- 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) F=0-5-8, J=0-3-8
Max Horz J=-185(LC 10)
Max Uplift F=-274(LC 11), J=-216(LC 14)
Max Grav F=1272(LC 34), J=1132(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-J=-282/164, B-D=-1054/346, D-F=-1823/280
BOT CHORD I-J=-200/982, H-I=-159/1683, F-H=-159/1683
WEBS B-J=-1387/650, B-I=0/446, D-I=-724/100, D-H=0/350

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-13 to 3-1-13, Exterior(2R) 3-1-13 to 3-7-10, Interior(1) 3-7-10 to 16-7-8, Exterior(2E) 16-7-8 to 19-7-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) F and J. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	D07	Roof Special	3	1	R73430688

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:37:00 2022 Page 1
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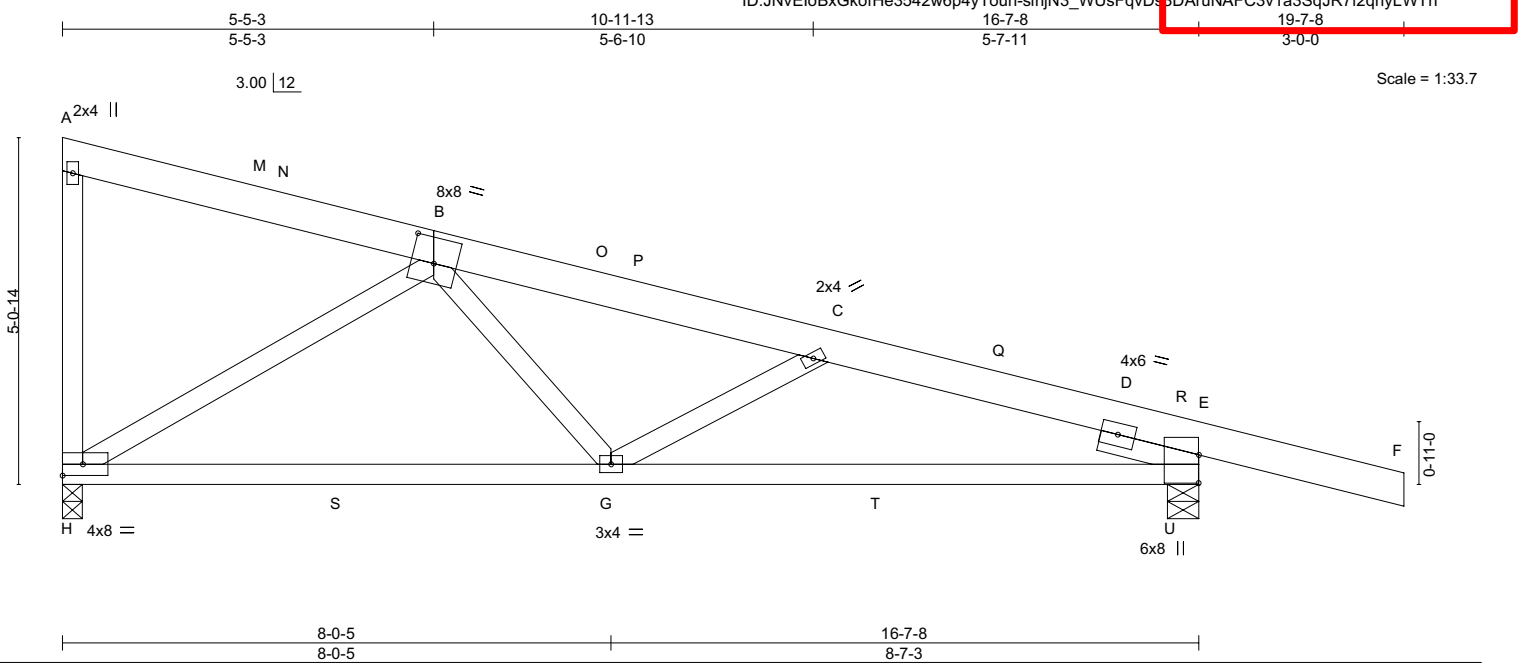

Plate Offsets (X,Y)-- [B:0-4-0,0-4-8], [E:0-4-15,0-0-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.28	G-H	>713	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.47	G-H	>425	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.03	E	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.03	G-H	>999	360	Weight: 94 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G
OTHERS 2x4 DF Stud/Std G
SLIDER Right 2x4 DF Stud/Std -G- 1-6-0

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) E=0-5-8, H=0-3-8
Max Horz H=-198(LC 12)
Max Uplift E=-272(LC 11), H=-133(LC 11)
Max Grav E=971(LC 2), H=806(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-H=-292/80, B-C=-1153/194, C-E=-1367/270
BOT CHORD G-H=-91/897, E-G=-140/1266
WEBS B-H=-1043/277, B-G=0/526, C-G=-311/119

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-13 to 3-1-13, Interior(1) 3-1-13 to 16-7-8, Exterior(2E) 16-7-8 to 19-7-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) E and H. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430689
22010709-A	E01	California Girder	1	2	Job Reference (optional)	

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:37:03 2022 Page 1
ID:JNvEloBxGkofHe3542w6p4yTouh-GHSs051PnndPm_aeuJOb?otpF69BG__l75uiR0yLWTk

-3-0-0 4-10-2 5-10-3 6-11-13 7-11-14 12-10-0 15-10-0
3-0-0 4-10-2 1-0-1 1-1-10 1-0-1 4-10-2 3-0-0

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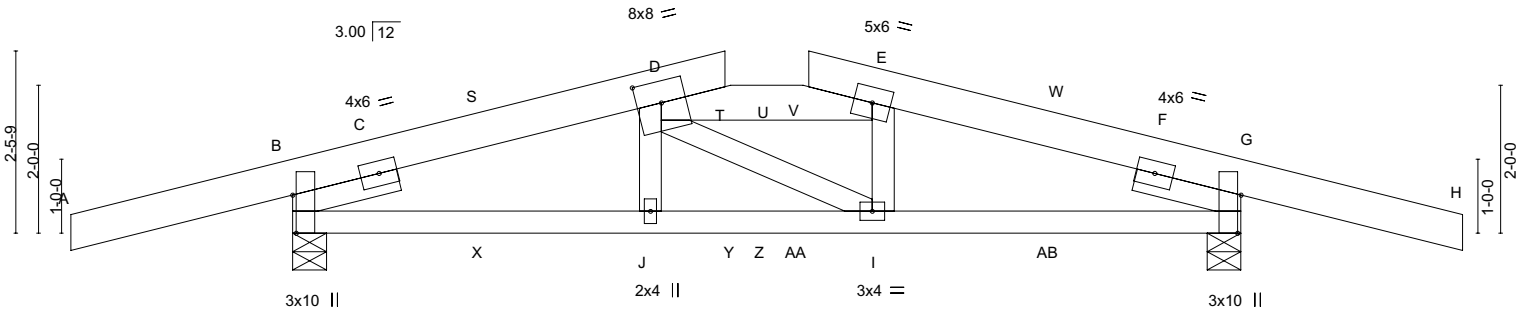

4-10-2 7-11-14 12-10-0
4-10-2 3-1-13 4-10-2

Plate Offsets (X,Y)-- [B:0-6-3,Edge], [D:0-4-0,0-3-8], [G:0-6-3,Edge]

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0		Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.05	I-J	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0		Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.14	I-J	>999	180		
TCDL	10.0		Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.03	G	n/a	n/a		
BCLL	0.0	*	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.03	I-J	>999	360	Weight: 153 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G
SLIDER Left 2x4 DF Stud/Std -G- 1-6-0, Right 2x4 DF Stud/Std -G- 1-6-0

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) B=0-5-8, G=0-5-8
Max Horz B=44(LC 8)
Max Uplift B=-244(LC 8), G=-244(LC 9)
Max Grav B=1260(LC 36), G=1257(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-1925/106, D-E=-1645/87, E-G=-1752/123
BOT CHORD B-J=-52/1821, I-J=-59/1822, G-I=-49/1616
WEBS D-J=-8/267, D-I=-337/32, E-I=0/308

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 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) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
6) Unbalanced snow loads have been considered for this design.
7) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
8) Provide adequate drainage to prevent water ponding.
9) Plates checked for a plus or minus 5 degree rotation about its center.
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.
12) A plate rating reduction of 20% has been applied for the green lumber members.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 244 lb uplift at joint B and 244 lb uplift at joint G.
14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

REGISTERED PROFESSIONAL ENGINEER
93437PE
OREGON
MARCH 13, 2018
ANDREW JOHNSON

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430689
22010709-A	E01	California Girder	1	2	Job Reference (optional)	

NOTES-

15) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 328 lb down and 49 lb up at 5-11-0, and 328 lb down and 49 lb up at 6-10-15 on top chord, and 51 lb down at 6-0-0, and 51 lb down at 6-10-0 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=-62, D-E=-62, E-H=-62, K-O=-20
   Concentrated Loads (lb)
   Vert: T=-295 V=-295 Y=-30(F) AA=-30(F)

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	E02	Common	2	1	R73430690
					Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:37:15 2022 Page 1
ID:JNvEIoBxGkofHe3542w6p4yTouh-CfacQn2fJOt6?_x10kQ34DzAywnnkr62aPNpVvyLWTi

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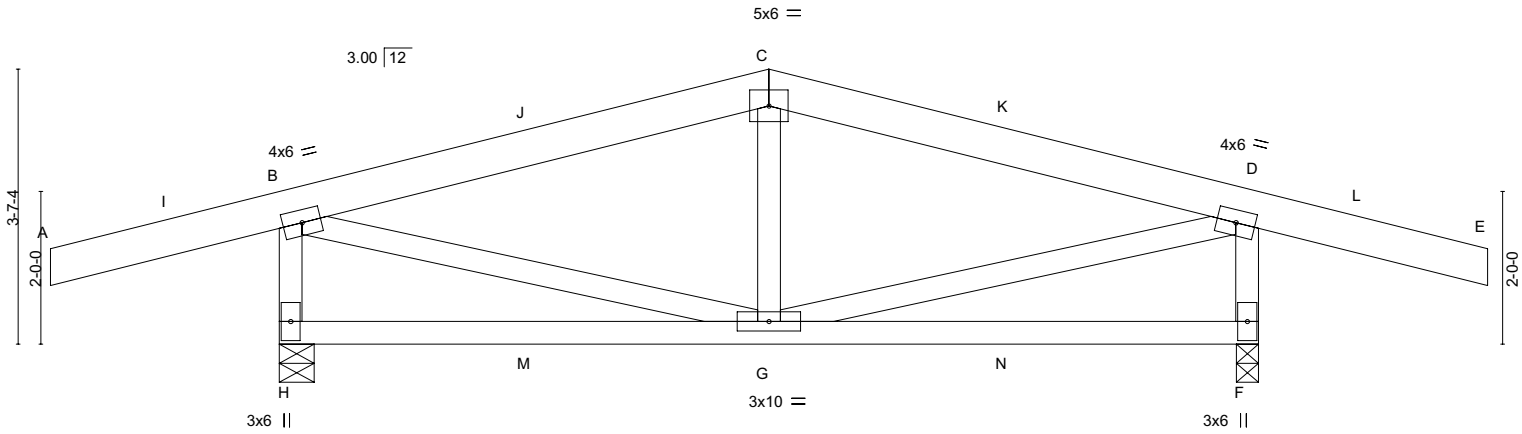
Scale = 1:30.2



6-5-0 6-5-0 | 12-10-0 6-5-0

LOADING (psf)
TCLL (roof) 25.0
Snow (Pf/Pg) 20.8/30.0
TCDL 10.0
BCLL 0.0 *
BCDL 10.0

SPACING- 2-0-0
Plate Grip DOL 1.15
Lumber DOL 1.15
Rep Stress Incr YES
Code IRC2018/TPI2014

CSI.
TC 0.25
BC 0.59
WB 0.21
Matrix-MP

DEFL.	in	(loc)	l/defl	L/d
Vert(LL)	-0.17	F-G	>888	240
Vert(CT)	-0.24	F-G	>617	180
Horz(CT)	-0.00	F	n/a	n/a
Wind(LL)	0.01	G	>999	360

PLATES MT20 **GRIP** 220/195
Weight: 85 lb FT = 20%

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G

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) H=0-5-8, F=0-3-8
Max Horz H=-92(LC 12)
Max Uplift H=-237(LC 10), F=-237(LC 11)
Max Grav H=830(LC 19), F=830(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-C=-552/233, C-D=-552/233, B-H=-781/482, D-F=-781/482
WEBS B-G=-76/505, D-G=-76/505

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -3-0-0 to 0-1-13, Interior(1) 0-1-13 to 3-5-0, Exterior(2R) 3-5-0 to 9-5-0, Interior(1) 9-5-0 to 12-8-4, Exterior(2E) 12-8-4 to 15-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) H and F. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430691
22010709-A	E03	Common	2	1	Job Reference (optional)	

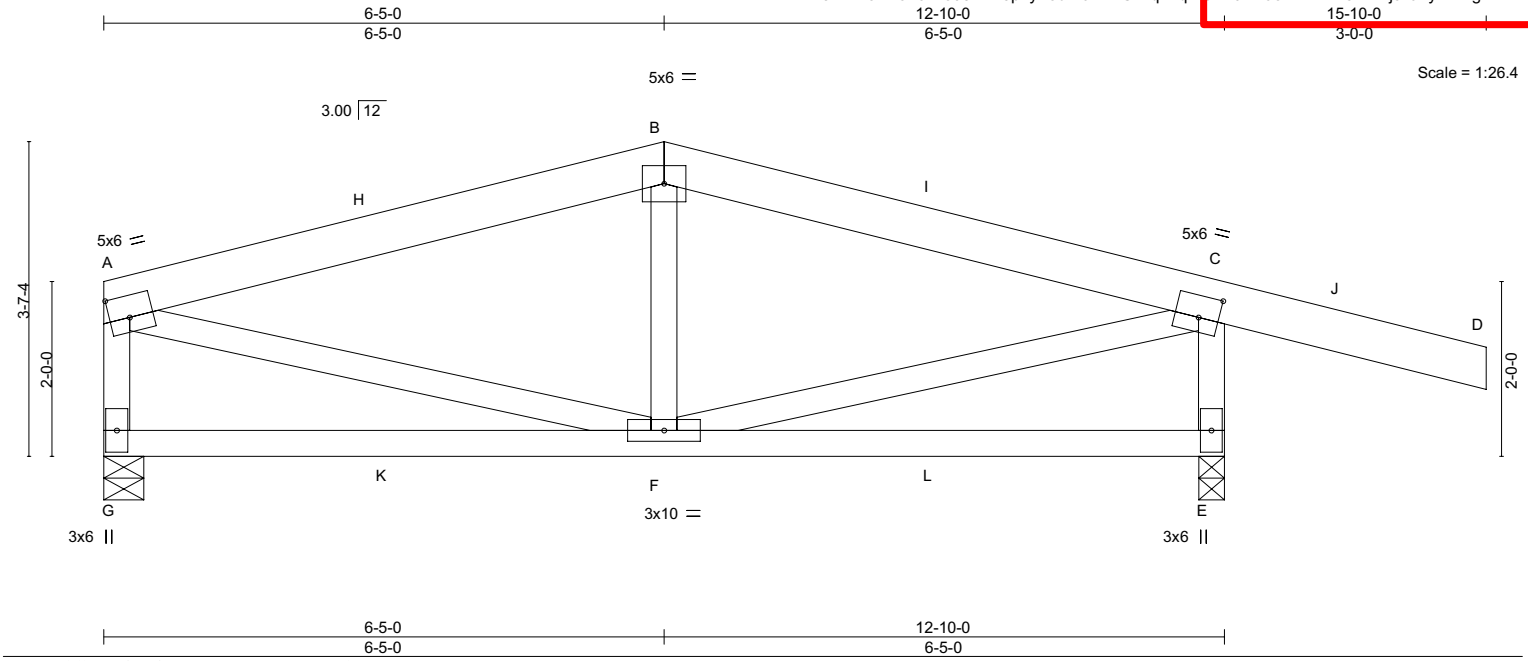


Plate Offsets (X,Y)-- [A:0-2-12,0-3-0], [C:0-2-12,0-3-0]

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0		Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.17	E-F	>888	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0		Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.24	E-F	>616	180		
TCDL	10.0		Rep Stress Incr	YES	WB	0.24	Horz(CT)	-0.00	E	n/a	n/a		
BCLL	0.0	*	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.01	F	>999	360	Weight: 78 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G

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) G=0-5-8, E=0-3-8
Max Horz G=-96(LC 12)
Max Uplift G=-80(LC 10), E=-239(LC 11)
Max Grav G=574(LC 19), E=842(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-583/274, B-C=-607/291, A-G=-526/278, C-E=-794/511
WEBS A-F=-186/542, C-F=-134/542

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-13 to 3-1-13, Exterior(2R) 3-1-13 to 9-5-0, Interior(1) 9-5-0 to 12-8-4, Exterior(2E) 12-8-4 to 15-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) G and E. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	F01	Roof Special Girder	1	1	R73430692

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:37:09 2022 Page 1
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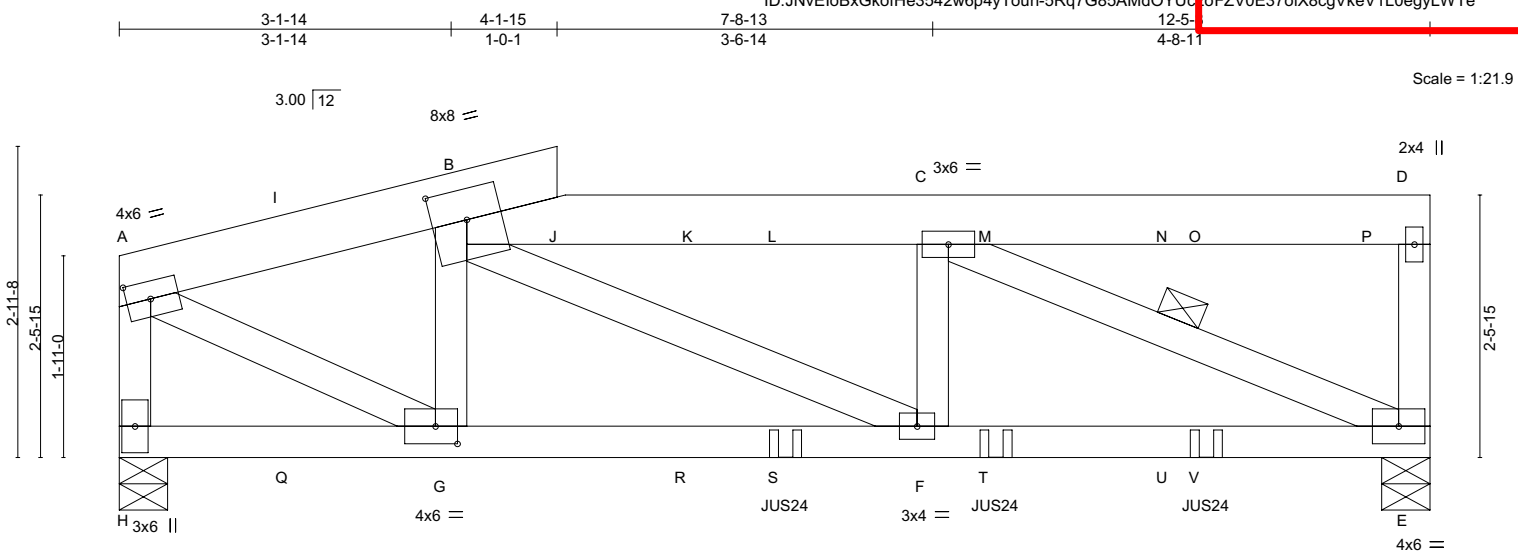

Plate Offsets (X,Y)-- [A:0-2-12,0-2-0], [B:0-4-0,0-3-8], [G:0-2-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.07	E-F	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.16	E-F	>939	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.03	E	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.03	F-G	>999	360	Weight: 73 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt C-E

REACTIONS. (size) E=0-5-8, H=0-5-8
Max Horz H=81(LC 9)
Max Uplift E=-241(LC 9), H=-233(LC 8)
Max Grav E=1407(LC 30), H=1394(LC 31)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1810/299, B-C=-2371/412, D-E=-319/89, A-H=-1370/245
BOT CHORD F-G=-325/1822, E-F=-418/2371
WEBS B-G=-829/202, B-F=-156/668, C-F=-72/273, C-E=-2611/440, A-G=-326/1989

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) E and H. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
13) Use MiTek JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 6-4-0 from the left end to 10-4-0 to connect truss(es) to front face of bottom chord.
14) Fill all nail holes where hanger is in contact with lumber.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 819 lb down and 200 lb up at 4-3-1, 331 lb down and 157 lb up at 6-4-0, and 319 lb down and 164 lb up at 8-4-0, and 289 lb down and 165 lb up at 10-4-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continue on page 2

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430692
22010709-A	F01	Roof Special Girder	1	1	Job Reference (optional)	

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-B=-62, B-D=-62, E-H=-20
   Concentrated Loads (lb)
   Vert: J=-778 L=-278 M=-263 O=-232 S=-54(F) T=-52(F) V=-50(F)

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	F02	Roof Special Girder	1	1	R73430693

Job Reference (optional)

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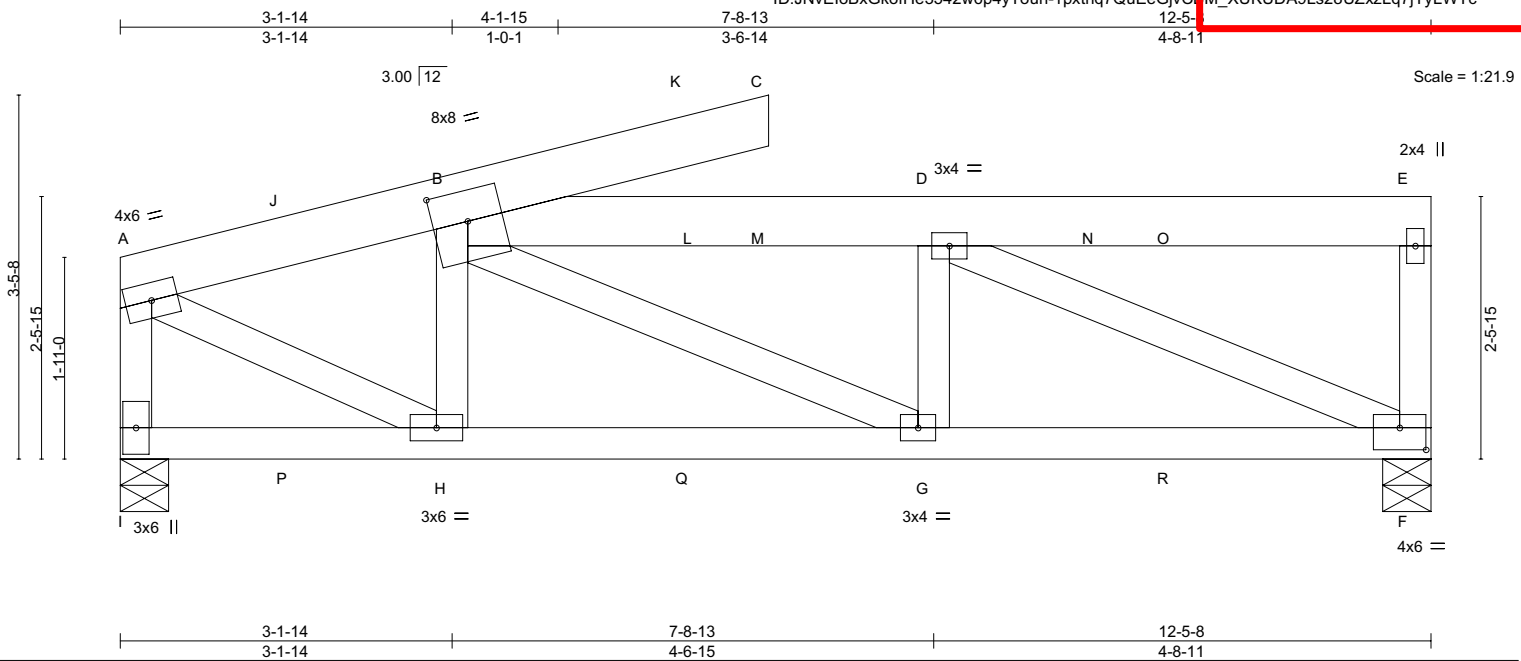

Plate Offsets (X,Y)-- [B:0-4-0,0-3-8], [F:0-3-0,0-2-8]

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0		Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.07	F-G	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0		Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.11	F-G	>999	180		
TCDL	10.0		Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.02	F	n/a	n/a		
BCLL	0.0	*	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.03	G-H	>999	360	Weight: 77 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G

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

REACTIONS. (size) F=0-5-8, I=0-5-8
Max Horz I=121(LC 11)
Max Uplift F=-185(LC 11), I=-158(LC 10)
Max Grav F=711(LC 32), I=781(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1066/983, B-D=-1072/863, E-F=-294/90, A-I=-755/511
BOT CHORD G-H=-1146/1084, F-G=-780/1072
WEBS B-H=-473/558, B-G=-220/406, D-F=-1180/905, A-H=-1083/1184

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-13 to 3-3-10, Exterior(2R) 3-3-10 to 7-8-13, Interior(1) 7-8-13 to 9-3-12, Exterior(2E) 9-3-12 to 12-3-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
4) Unbalanced snow loads have been considered for this design.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) F and I. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	F03	California	1	1	R73430694
					Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 7 16:37:14 2022 Page 1
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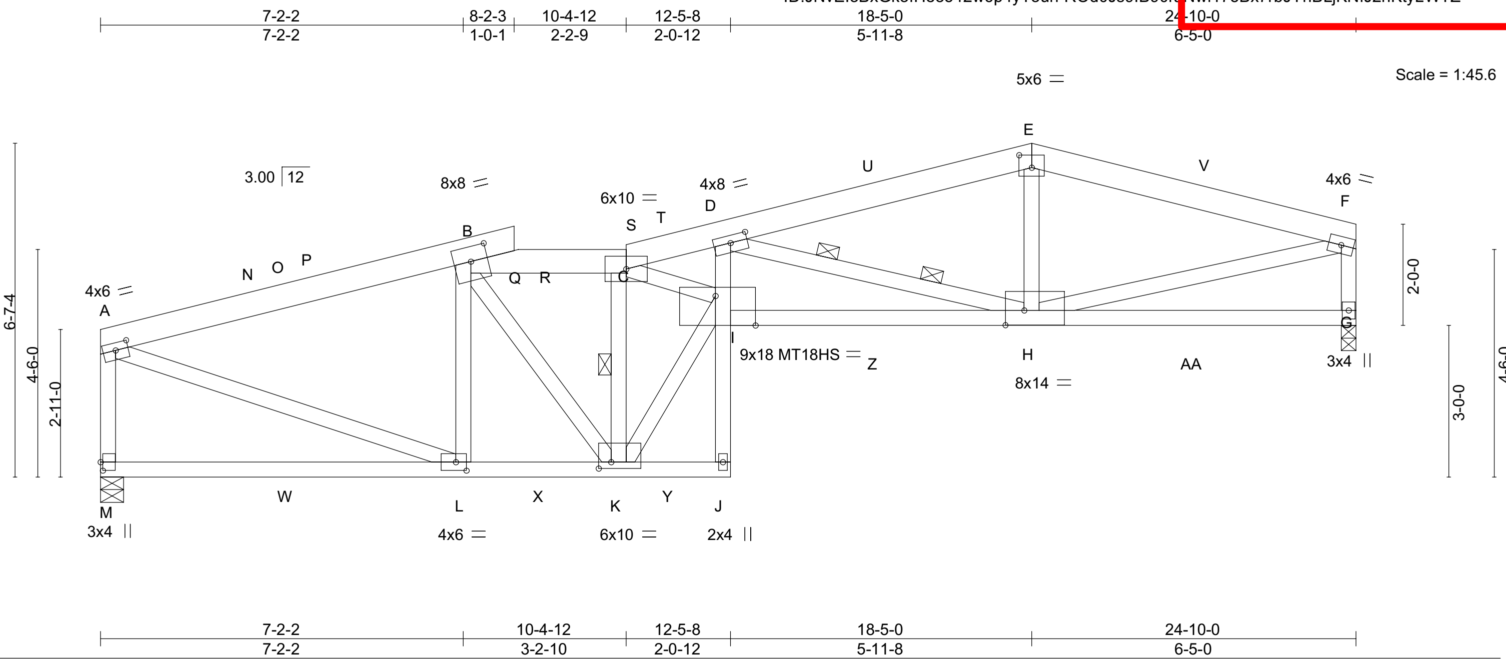

Plate Offsets (X,Y)-- [A:0-3-0,0-1-12], [B:0-4-0,0-3-8], [D:0-4-0,0-1-12], [E:0-3-0,0-3-0], [H:0-4-8,0-3-8], [I:0-9-8,Edge], [K:0-3-0,0-1-8], [L:0-2-8,0-2-0], [M:0-2-0,0-0-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.43	J	>688	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.94	J	>313	180	MT18HS	220/195
TCDL	10.0	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.37	G	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS		Wind(LL)	0.26	J	>999	360	Weight: 158 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G *Except*
I-K,C-I: 2x4 DF No.1&Btr G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt C-K
2 Rows at 1/3 pts D-H

REACTIONS. (size) M=0-5-8, G=0-3-8
Max Horz M=114(LC 13)
Max Uplift M=-233(LC 10), G=-194(LC 14)
Max Grav M=1394(LC 39), G=1142(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1888/500, B-C=-1917/553, C-D=-6170/1662, D-E=-1986/587, E-F=-1975/591,
A-M=-1325/372, F-G=-1090/378
BOT CHORD K-L=-487/1798, I-J=0/299, D-I=-517/2166, H-I=-1553/5982
WEBS B-L=-491/224, B-K=-66/306, C-K=-3414/911, I-K=-1002/3774, C-I=-1074/4151,
D-H=-4222/1113, E-H=0/424, A-L=-415/1821, F-H=-498/1912

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-3-14, Exterior(2R) 4-3-14 to 7-3-14, Exterior(2E) 7-3-14 to 10-4-12, Interior(1) 10-4-12 to 15-5-0, Exterior(2R) 15-5-0 to 21-8-4, Exterior(2E) 21-8-4 to 24-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
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) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
11) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) M and G. This connection is for uplift only and does not consider lateral forces.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

November 9,2022

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430694
22010709-A	F03	California	1	1	Job Reference (optional)	

NOTES-

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 220 lb down and 153 lb up at 8-3-1, and 104 lb down and 105 lb up at 10-4-12 on top 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-B=-62, B-C=-62, C-E=-62, E-F=-62, J-M=-20, G-I=-20
   Concentrated Loads (lb)
   Vert: C=-49 Q=-179

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430695
22010709-A	F04	California	1	1	Job Reference (optional)	

City of Portland
Reviewed for code compliance
Date: 04/16/24

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:37:18 2022 Page 1
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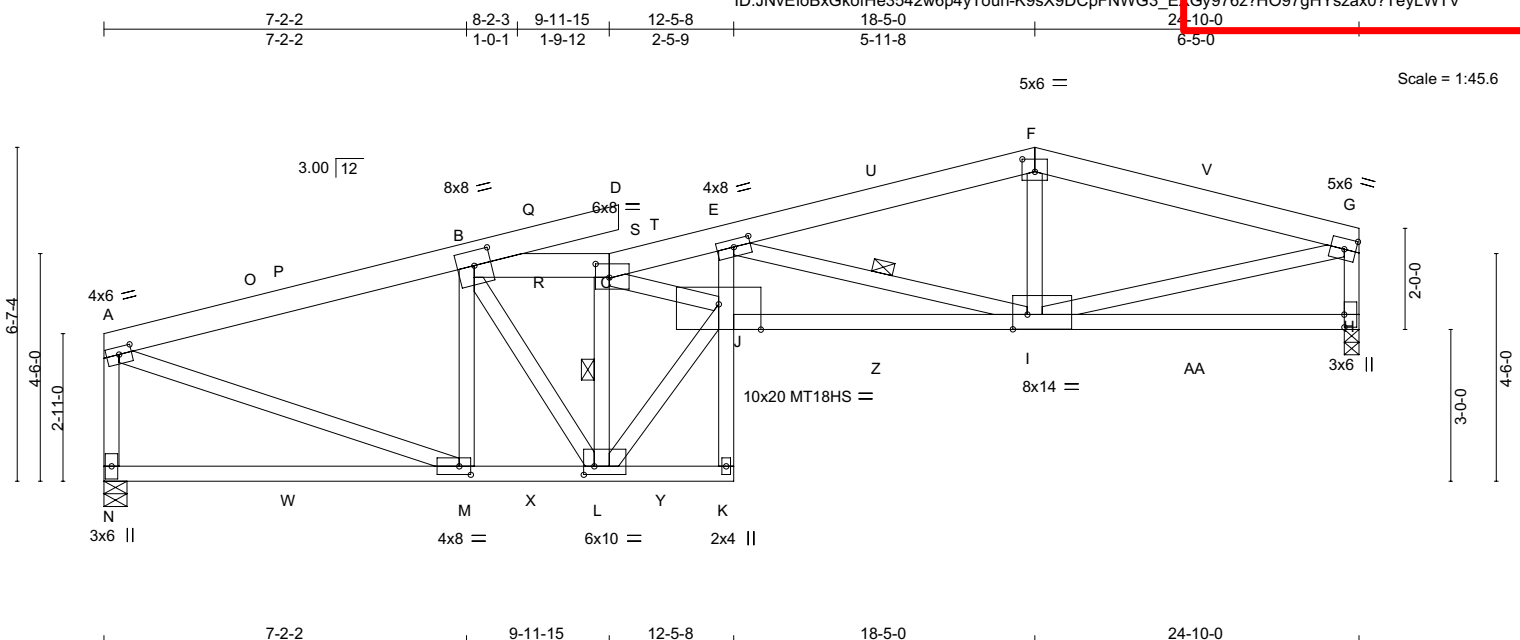

Plate Offsets (X,Y)-- [A:0-3-0,0-1-12], [B:0-4-0,0-3-8], [C:0-3-4,0-3-4], [E:0-4-0,0-1-12], [F:0-3-0,0-3-0], [G:0-2-12,0-2-8], [H:0-3-0,0-0-1], [I:0-3-8,0-3-8], [J:0-10-0,Edge], [L:0-2-8,0-2-0], [M:0-2-12,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.42	K	>708	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.86	K	>342	180	MT18HS	220/195
TCDL	10.0	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.33	H	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.27	K	>999	360	Weight: 163 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G *Except*
J-L,C-J,E-I: 2x4 DF No.1&Btr G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt C-L, E-I

REACTIONS. (size) N=0-5-8, H=0-3-8
Max Horz N=150(LC 11)
Max Uplift N=-230(LC 10), H=-218(LC 14)
Max Grav N=1533(LC 39), H=1174(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-2184/887, B-C=-2202/1076, C-E=-6489/2797, E-F=-2135/878, F-G=-2121/885, A-N=-1463/552, G-H=-1121/522
BOT CHORD L-M=-1019/2099, J-K=0/296, E-J=-960/2038, I-J=-2666/6351
WEBS B-M=-603/369, B-L=-65/300, C-L=-3200/1467, J-L=-1764/3756, C-J=-1648/4171, E-I=-4463/1972, F-I=-117/517, A-M=-841/2147, G-I=-791/2052

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 7-2-3, Exterior(2R) 7-2-3 to 10-2-3, Exterior(2E) 7-3-14 to 9-11-15, Interior(1) 9-11-15 to 15-5-0, Exterior(2R) 15-5-0 to 21-8-4, Exterior(2E) 21-8-4 to 24-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
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) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
11) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) N and H. This connection is for uplift only and does not consider lateral forces.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all [illegible] along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

Continued on page 2

REGISTERED PROFESSIONAL ENGINEER
93437PE
OREGON
MARCH 13, 2018
ANDREW JOHNSON

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	F04	California	1	1	R73430695
					Job Reference (optional)

NOTES-

14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-B=-62, B-D=-103, B-C=-103, C-F=-62, F-G=-62, K-N=-20, H-J=-20

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430696
22010709-A	F05	California	1	1	Job Reference (optional)	

City of Portland
Reviewed for code compliance
Date: 04/16/24

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:37:22 2022 Page 1
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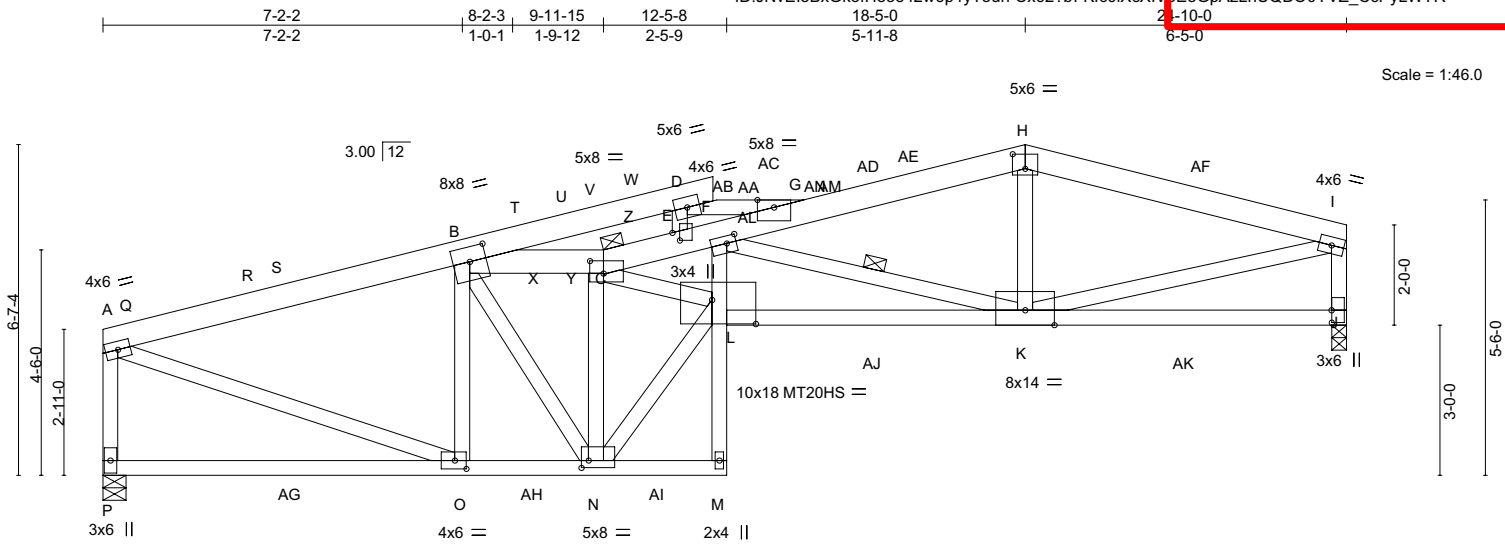

Plate Offsets (X,Y)-- [B:0-4-0,0-3-8], [C:0-3-4,0-3-0], [E:0-1-13,0-1-13], [F:0-2-4,0-1-12], [H:0-3-0,0-3-8], [J:0-3-0,0-0-1], [L:0-10-8,0-5-12], [N:0-1-12,0-1-12], [O:0-2-12,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.29	M	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.65	L	>450	180	MT20HS	165/146
TCDL	10.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.25	J	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.18	M	>999	360	Weight: 172 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G *Except*
D-G: 2x4 DF No.1&Btr G
BOT CHORD 2x4 DF No.1&Btr G *Except*
F-M: 2x4 DF Stud/Std G
WEBS 2x4 DF Stud/Std G *Except*
L-N,C-L: 2x4 DF No.1&Btr G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-9-9 oc bracing.
WEBS 1 Row at midpt F-K
JOINTS 1 Brace at Jt(s): C

REACTIONS. (size) P=0-5-8, J=0-3-8
Max Horz P=118(LC 13)
Max Uplift P=-199(LC 10), J=-189(LC 14)
Max Grav P=1331(LC 39), J=1137(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-B=-1808/468, B-D=-1963/510, B-C=-57/465, C-E=-2952/933, E-F=-3050/945, F-G=-369/225, G-H=-1858/590, H-I=-1895/600, A-P=-1261/341, I-J=-1083/379, D-G=-1818/505
BOT CHORD N-O=-461/1724, L-M=0/287, F-L=-236/1151, K-L=-1355/4844
WEBS B-O=-478/218, B-N=-525/120, C-N=-1505/449, L-N=-671/2445, C-L=-973/3413, F-K=-3129/899, H-K=0/330, A-O=-390/1750, I-K=-510/1835, D-E=-93/414

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 8-6-4, Exterior(2R) 8-6-4 to 11-6-4, Exterior(2E) 11-6-4 to 14-0-10, Interior(1) 14-0-10 to 15-5-0, Exterior(2R) 15-5-0 to 21-8-4, Exterior(2E) 21-8-4 to 24-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
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) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
11) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) P and J. This connection is for uplift only and does not consider lateral forces.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2

REGISTERED PROFESSIONAL ENGINEER 93437PE OREGON MARCH 13, 2018 ANDREW JOHNSON

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430696
22010709-A	F05	California	1	1	Job Reference (optional)	

NOTES-

13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 169 lb down and 126 lb up at 11-6-4 on top 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-B=-62, B-D=-62, G-H=-62, H-I=-62, M-P=-20, J-L=-20, D-G=-62
   Concentrated Loads (lb)
   Vert: D=-128

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	G01	CALIFORNIA GIRDER	1	1	R73430697 Job Reference (optional)

City of Portland
Reviewed for code compliance
Date: 04/16/24
Project #: 22-193131-DFS-01-RS

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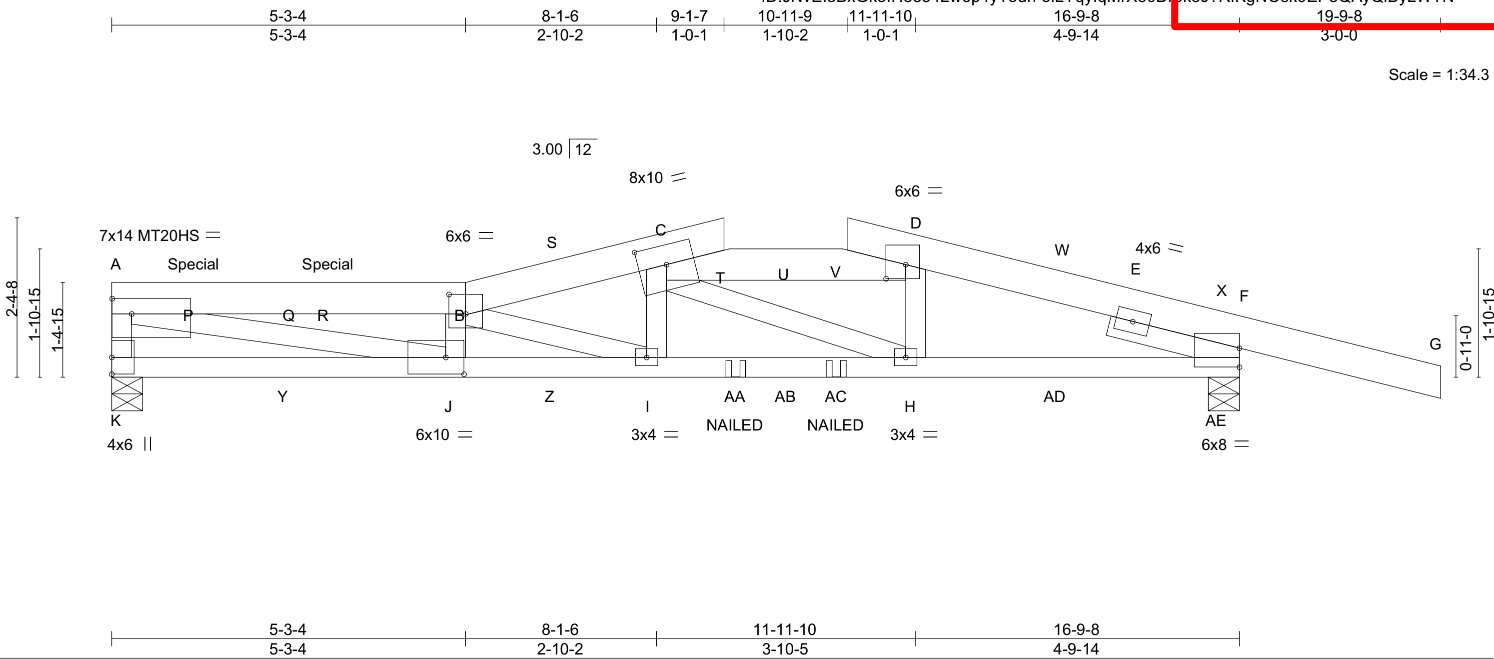

Plate Offsets (X,Y)-- [A:0-3-8,0-2-12], [B:0-3-0,0-3-8], [C:0-5-0,0-3-8], [D:0-3-8,0-2-8], [F:Edge,0-3-6], [J:0-3-4,0-3-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.22	I-J	>893	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.55	I-J	>364	180	MT20HS	165/146
TCDL	10.0	Rep Stress Incr	NO	WB	0.66	Horz(CT)	0.08	F	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS		Wind(LL)	0.15	I-J	>999	360	Weight: 95 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G *Except*
A-K,A-J: 2x4 DF No.1&Btr G
SLIDER Right 2x4 DF Stud/Std -G- 2-0-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-1-11 oc bracing.

REACTIONS. (size) K=0-5-8, F=0-5-8
Max Horz K=-58(LC 117)
Max Uplift K=-358(LC 8), F=-327(LC 9)
Max Grav K=1565(LC 17), F=1852(LC 38)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-K=-1461/375, A-B=-5119/860, B-C=-4893/630, C-D=-3279/352, D-F=-3446/366
BOT CHORD J-K=-88/461, I-J=-878/5263, H-I=-587/4792, F-H=-312/3235
WEBS A-J=-773/4756, B-J=-1010/233, B-I=-507/302, C-I=-69/397, C-H=-1768/298, D-H=-30/651

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
12) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) K and F. This connection is for uplift only and does not consider lateral forces.
13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

Continued on page 2

REGISTERED PROFESSIONAL ENGINEER
93437PE
OREGON
MARCH 13, 2018
ANDREW JOHNSON
EXPIRES: 06/30/2023

November 9,2022

MiTek
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	G01	CALIFORNIA GIRDER	1	1	R73430697 Job Reference (optional)

NOTES-

16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 220 lb down and 87 lb up at 1-2-12, 87 lb down and 87 lb up at 1-2-12, 523 lb down and 192 lb up at 3-2-12, 126 lb down and 352 lb up at 3-2-12, and 567 lb down and 100 lb up at 9-2-4, and 567 lb down and 100 lb up at 10-10-11 on top chord. The design/selection of such connection device(s) is the responsibility of others.
17) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-B=-62, B-C=-62, C-D=-62, D-G=-62, K-L=-20
   Concentrated Loads (lb)
   Vert: P=-99(F=-158) R=-366(F=-477) T=-525 V=-525 AA=-29(F) AC=-29(F)

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430698
22010709-A	G02	Roof Special	1	1	Job Reference (optional)	

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:37:28 2022 Page 1
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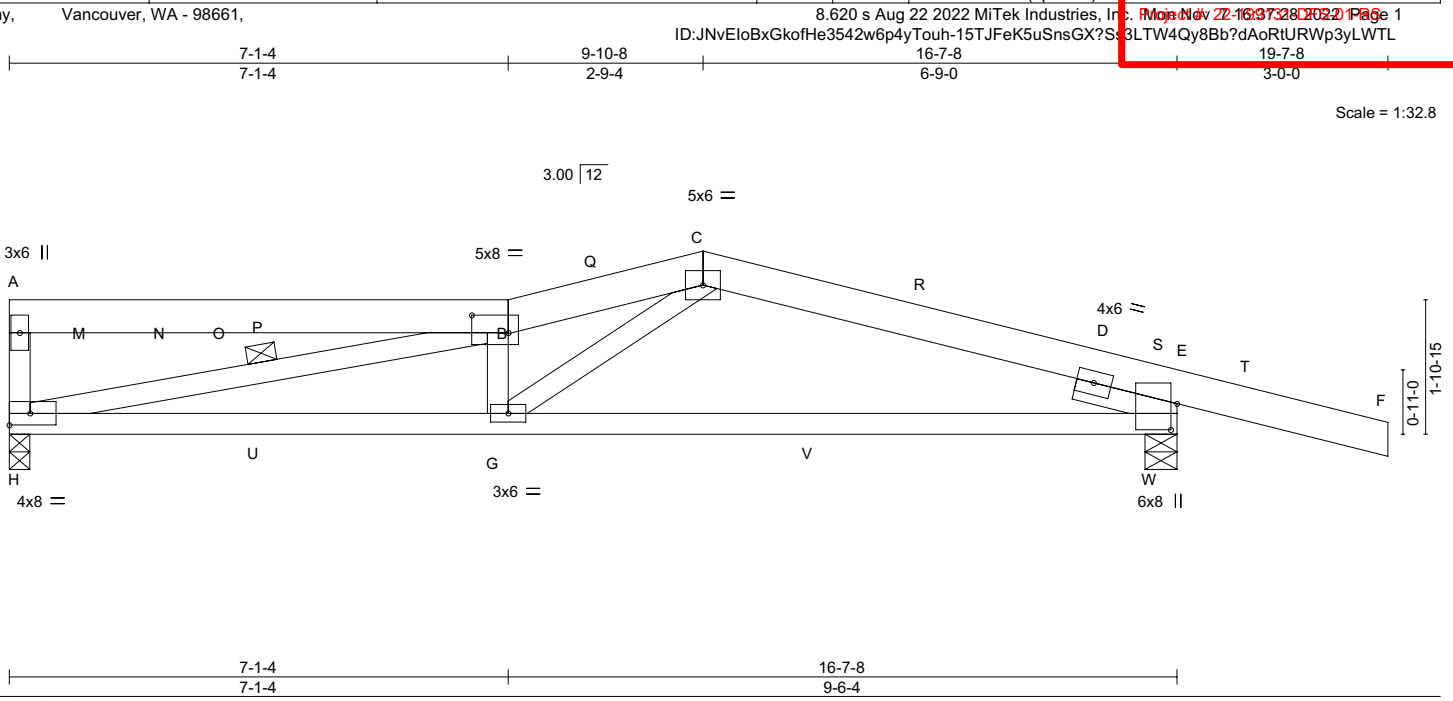

Plate Offsets (X,Y)-- [B:0-6-4,0-3-0], [E:0-4-7,0-1-1]

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0		Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.28	G-K	>695	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0		Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.54	G-K	>366	180		
TCDL	10.0		Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.04	E	n/a	n/a		
BCLL	0.0	*	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.06	G	>999	360	Weight: 86 lb	FT = 20%
BCDL	10.0												

LUMBER-

TOP CHORD	2x6 DF SS G
BOT CHORD	2x4 DF No.1&Btr G
WEBS	2x4 DF Stud/Std G
OTHERS	2x4 DF Stud/Std G
SLIDER	Right 2x4 DF Stud/Std -G- 1-6-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-10-6 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 9-5-11 oc bracing.
WEBS	1 Row at midpt B-H

REACTIONS. (size) E=0-5-8, H=0-3-8
Max Horz H=-79(LC 12)
Max Uplift E=-254(LC 11), H=-156(LC 10)
Max Grav E=971(LC 2), H=757(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-H=-341/143, B-C=-2135/657, C-E=-1318/456
BOT CHORD G-H=-484/1986, E-G=-322/1218
WEBS B-H=-1874/523, B-G=-532/262, C-G=-236/1107

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 7-1-4, Exterior(2R) 7-1-4 to 12-10-8, Interior(1) 12-10-8 to 16-7-8, Exterior(2E) 16-7-8 to 19-7-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
11) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) E and H. This connection is for uplift only and does not consider lateral forces.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

Continued on page 2

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	G02	Roof Special	1	1	R73430698
					Job Reference (optional)

NOTES-

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 100 lb down and 109 lb up at 1-0-12, and 132 lb down and 110 lb up at 3-0-12 on top 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-B=-62, B-C=-62, C-F=-62, H-I=-20
   Concentrated Loads (lb)
   Vert: M=-5 O=-26

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	G03	Roof Special	1	1	Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:37:31 2022 Page 1
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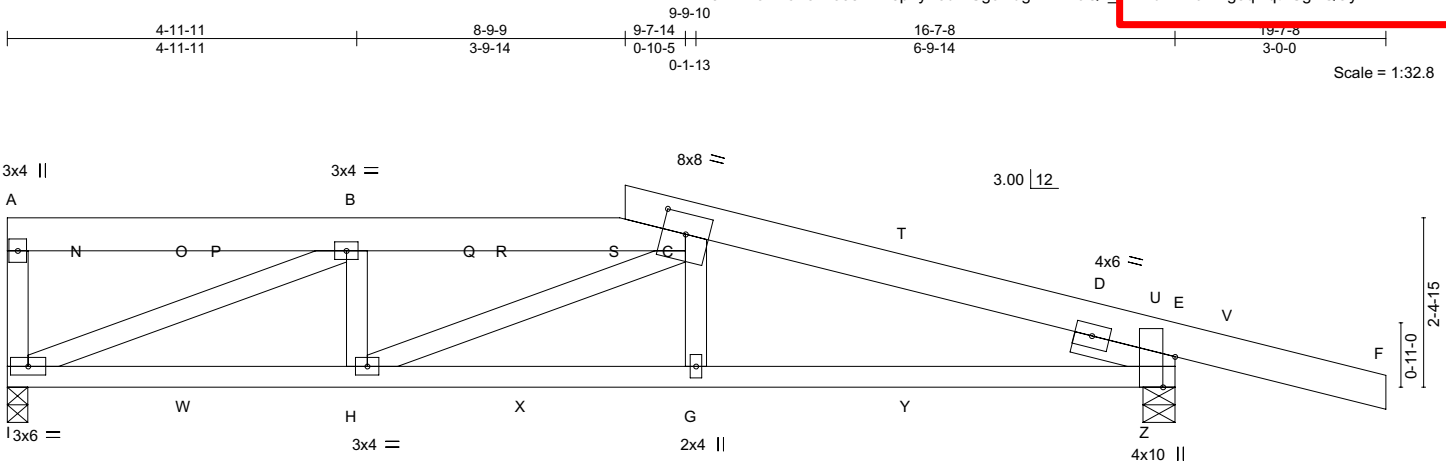

4-11-11	9-9-10	16-7-8
4-11-11	4-9-15	6-9-14

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.10	G-H	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.22	G-H	>913	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.06	E	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.07	G-H	>999	360	Weight: 91 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G
SLIDER Right 2x4 DF Stud/Std -G- 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) E=0-5-8, I=0-3-8
Max Horz I=-90(LC 12)
Max Uplift E=-335(LC 11), I=-250(LC 10)
Max Grav E=1211(LC 34), I=985(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-I=-327/96, B-C=-1633/520, C-E=-1736/534
BOT CHORD H-I=-389/1633, G-H=-417/1631, E-G=-411/1635
WEBS C-H=-283/131, C-G=0/324, B-H=0/303, B-I=-1714/512

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 6-7-14, Exterior(2R) 6-7-14 to 12-7-14, Interior(1) 12-7-14 to 16-7-8, Exterior(2E) 16-7-8 to 19-7-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) E and I. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 174 lb down and 150 lb up at 1-0-12, and 197 lb down and 151 lb up at 3-0-12, and 263 lb down and 274 lb up at 8-8-11 on top chord. The design/selection of such connection device(s) is the responsibility of others.

EXPIRES: 06/30/2023
November 9,2022

Continued on page 2

LOAD CASE(S) Standard

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	G03	Roof Special	1	1	R73430699

Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-C=-62, C-F=-62, I-J=-20
   Concentrated Loads (lb)
   Vert: N=-118 P=-139 S=-133

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	G04	Roof Special	1	1	Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:37:33 2022 Page 1
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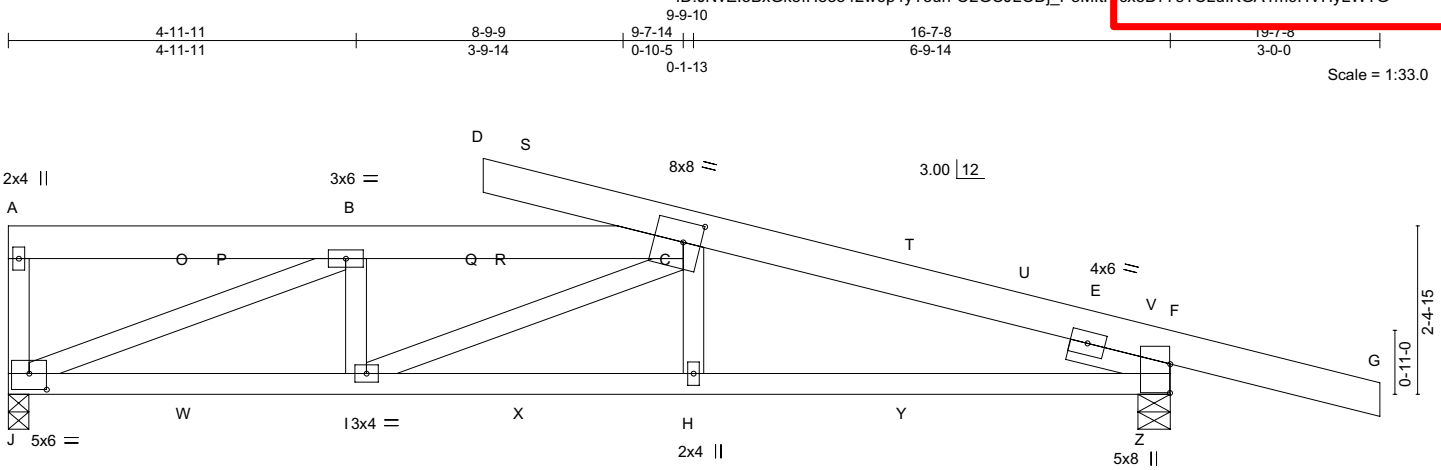

Plate Offsets (X,Y)-- [C:0-3-0,0-3-8], [F:0-4-15,0-0-1], [J:0-3-0,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.12	H-I	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.26	H-I	>775	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.07	F	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.11	H-I	>999	360		
BCDL	10.0										Weight: 95 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G
SLIDER Right 2x4 DF Stud/Std -G- 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-5-2 oc bracing.

REACTIONS. (size) F=0-5-8, J=0-3-8
Max Horz J=-123(LC 67)
Max Uplift F=-333(LC 11), J=-240(LC 10)
Max Grav F=1352(LC 34), J=922(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-J=-295/102, B-C=-1737/1038, C-F=-2265/1117
BOT CHORD I-J=-760/1737, H-I=-994/2136, F-H=-984/2139
WEBS C-I=-435/392, C-H=0/321, B-I=-115/309, B-J=-1853/1074

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 6-7-14, Exterior(2R) 6-7-14 to 9-7-14, Interior(1) 9-7-14 to 16-7-8, Exterior(2E) 16-7-8 to 19-7-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) F and J. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 458 lb down and 245 lb up at 6-8-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.

EXPIRES: 06/30/2023
November 9,2022

Continued on page 2

LOAD CASE(S) Standard

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430700
22010709-A	G04	Roof Special	1	1	Job Reference (optional)	

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-C=-62, C-D=-62, C-G=-62, J-K=-20
   Concentrated Loads (lb)
   Vert: Q=-133

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	G05	Roof Special	1	1	R73430701 Job Reference (optional)

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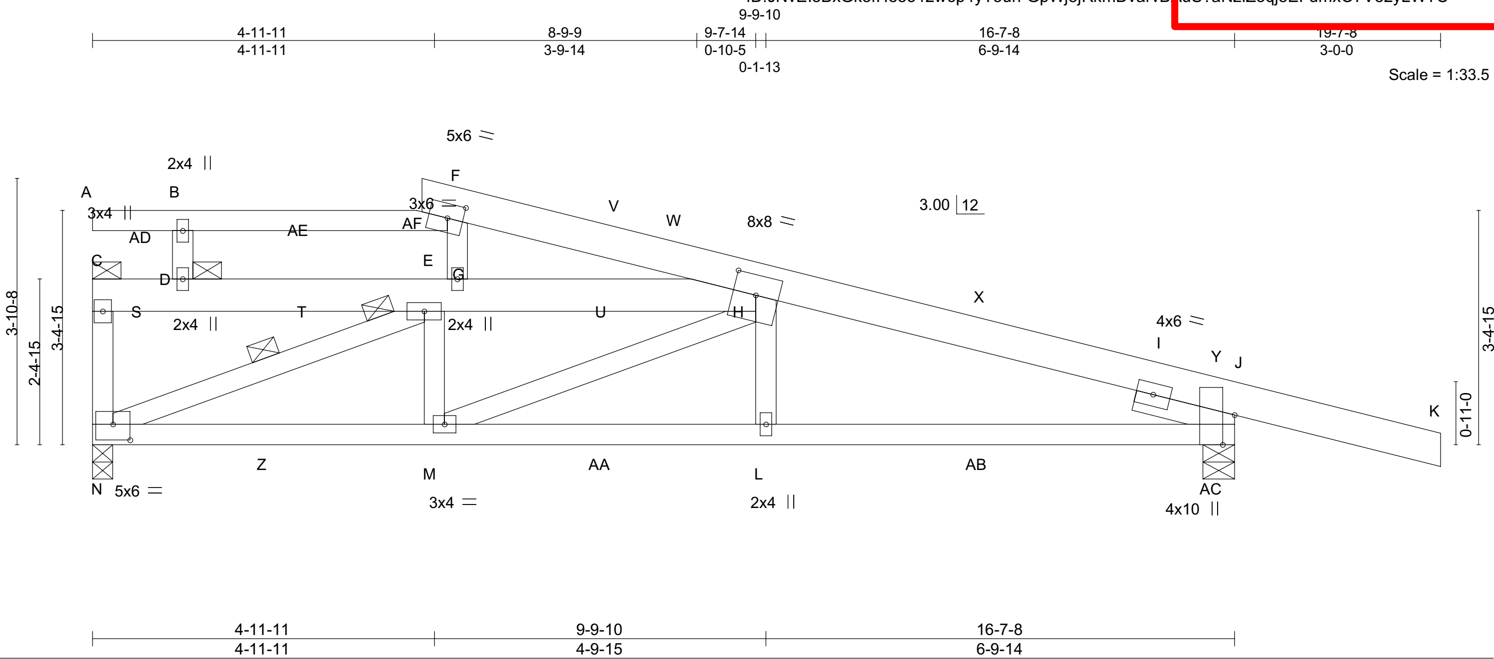

Plate Offsets (X,Y)-- [F:0-2-12,0-2-8], [H:0-4-0,0-3-8], [J:0-5-3,Edge], [N:0-3-0,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.11	L-M	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.22	L-M	>898	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.06	J	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS		Wind(LL)	0.06	L-M	>999	360	Weight: 109 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G *Except*
A-F: 2x4 DF No.1&Btr G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G
SLIDER Right 2x4 DF Stud/Std -G- 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-12 oc purlins, except end verticals. Except:
6-0-0 oc bracing: C-D
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt E-N
JOINTS 1 Brace at Jt(s): C, E, D

REACTIONS. (size) N=0-3-8, J=0-5-8
Max Horz N=-106(LC 12)
Max Uplift N=-290(LC 11), J=-317(LC 11)
Max Grav N=1319(LC 38), J=1316(LC 38)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-N=-494/294, E-G=-2026/628, G-H=-2026/628, H-J=-2043/412
BOT CHORD M-N=-448/2026, L-M=-301/1912, J-L=-295/1917
WEBS H-M=-473/400, H-L=0/332, E-M=-64/295, E-N=-2119/607, F-G=-660/267, B-D=-367/326

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-3-12, Exterior(2R) 0-1-12 to 8-3-12, Interior(1) 8-3-12 to 16-7-8, Exterior(2E) 16-7-8 to 19-7-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
11) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) N and J. This connection is for uplift only and does not consider lateral forces.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430701
22010709-A	G05	Roof Special	1	1	Job Reference (optional)	

NOTES-

15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 242 lb down and 149 lb up at 1-3-12, and 180 lb down and 133 lb up at 3-0-5, and 353 lb down and 288 lb up at 4-8-4 on top 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: C-D=-103, F-H=-62, H-K=-62, N-O=-20, A-B=-103, B-F=-62
   Concentrated Loads (lb)
   Vert: D=-145 AE=-131 AF=-271

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430702
22010709-A	G06	Roof Special	1	1	Job Reference (optional)	

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:37:40 2022 Page 1
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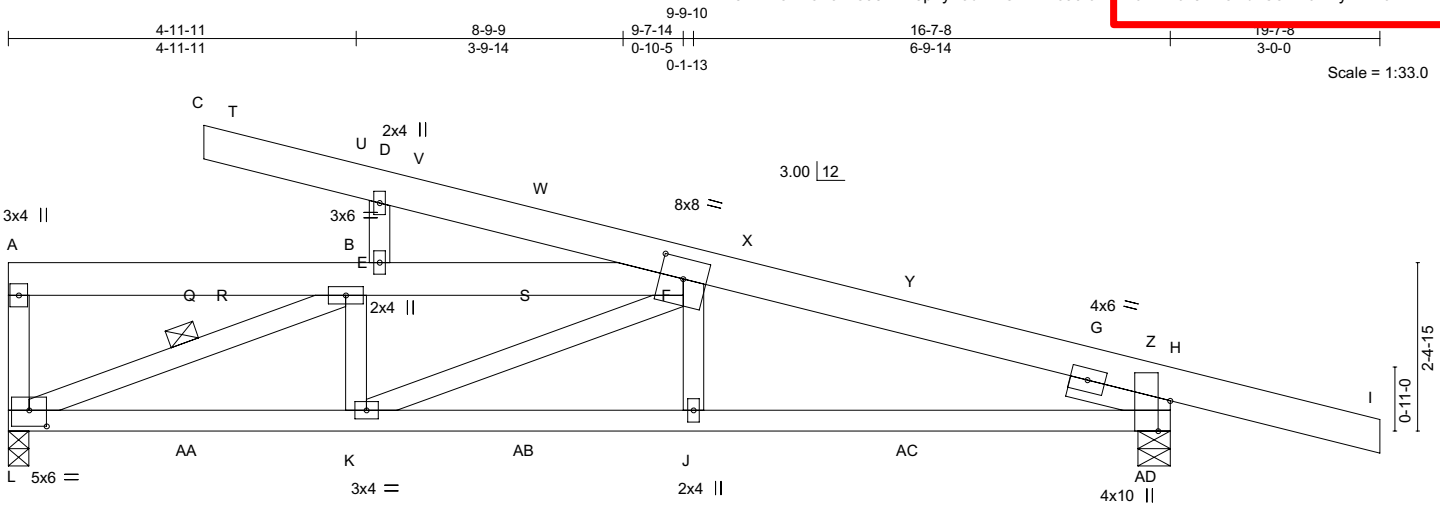

Plate Offsets (X,Y)-- [F:0-4-0,0-3-8], [H:0-5-3,Edge], [L:0-3-0,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.11	J-K	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.23	J-K	>879	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.06	H	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.06	J-K	>999	360	Weight: 106 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G
SLIDER Right 2x4 DF Stud/Std -G- 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-3 oc purlins, except end verticals. Except:
5-9-0 oc bracing: B-E
BOT CHORD Rigid ceiling directly applied or 7-1-5 oc bracing.
WEBS 1 Row at midpt B-L

REACTIONS. (size) L=0-3-8, H=0-5-8
Max Horz L=-142(LC 10)
Max Uplift L=-242(LC 14), H=-290(LC 11)
Max Grav L=1188(LC 34), H=1327(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-L=-329/105, B-E=-2214/1178, E-F=-2214/1178, F-H=-2069/481
BOT CHORD K-L=-897/2214, J-K=-365/1936, H-J=-359/1940
WEBS F-K=-580/436, F-J=0/333, B-K=-72/296, B-L=-2328/1213, D-E=-525/678

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Exterior(2R) 3-1-12 to 5-9-9, Interior(1) 5-9-9 to 16-7-8, Exterior(2E) 16-7-8 to 19-7-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) L and H. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 499 lb down and 261 lb up at 2-8-1 on top chord. The design/selection of such connection device(s) is the responsibility of others.

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LOAD CASE(S) Standard

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	G06	Roof Special	1	1	R73430702
					Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-E=-62, C-F=-62, F-I=-62, L-M=-20
   Concentrated Loads (lb)
   Vert: Q=-271

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	G07	Roof Special	1	1	R73430703

Job Reference (optional)

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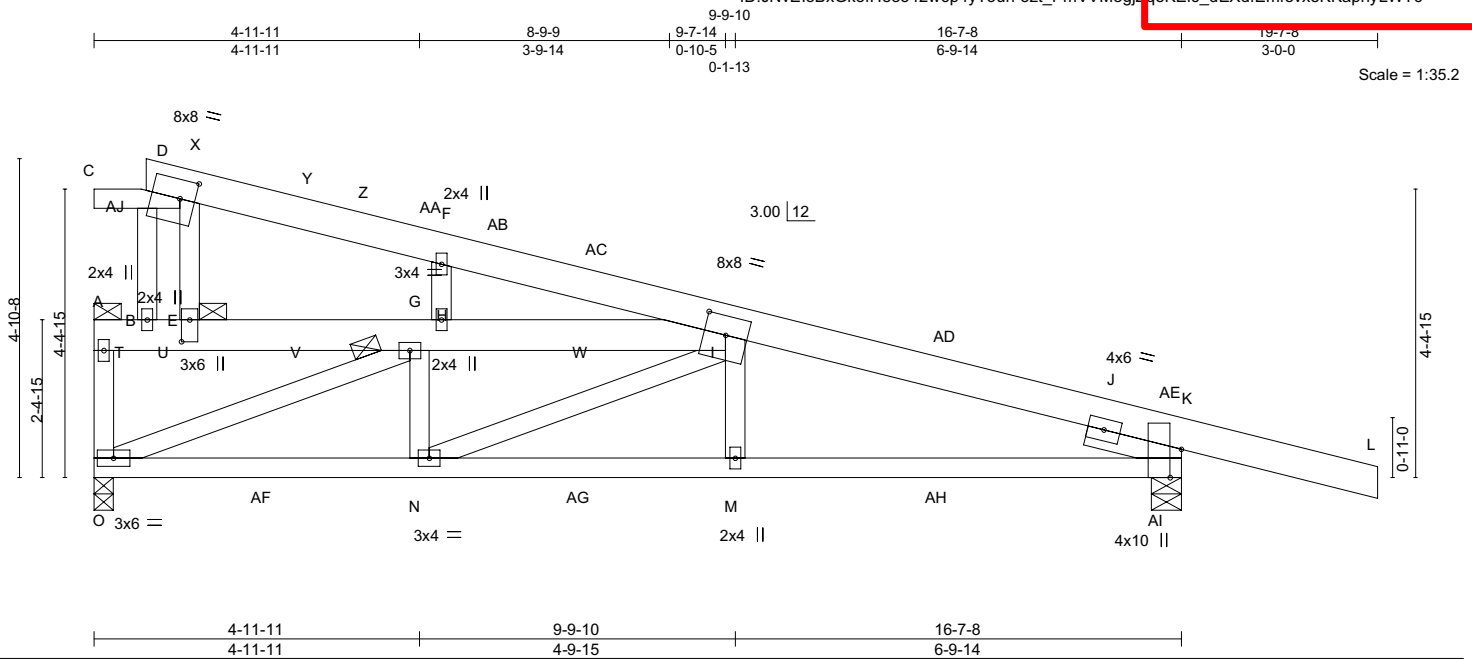

Plate Offsets (X,Y)-- [D:0-2-12,0-3-8], [E:0-4-0,0-1-8], [I:0-4-0,0-3-8], [K:0-5-3,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.09	M-R	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.19	M-N	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.05	K	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS		Wind(LL)	0.04	M-N	>999	360	Weight: 117 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G *Except*
C-D: 2x4 DF No.1&Btr G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G
SLIDER Right 2x4 DF Stud/Std -G- 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-1 oc purlins, except end verticals. Except:
6-0-0 oc bracing: A-B
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): A, G, E

REACTIONS. (size) O=0-3-8, K=0-5-8
Max Horz O=-128(LC 87)
Max Uplift O=-239(LC 11), K=-271(LC 11)
Max Grav O=1130(LC 38), K=1244(LC 38)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-O=-503/264, G-H=-1327/294, H-I=-1327/294, I-K=-1819/263
BOT CHORD N-O=-173/1480, M-N=-148/1696, K-M=-142/1701
WEBS I-N=-351/59, I-M=0/333, G-N=0/331, G-O=-1564/332, F-H=-444/179, D-E=-139/504, B-D=-704/391

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 1-0-7, Exterior(2R) 0-1-12 to 4-0-7, Interior(1) 4-0-7 to 16-7-8, Exterior(2E) 16-7-8 to 19-7-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
11) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) O and K. This connection is for uplift only and does not consider lateral forces.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
14) Graphical representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	G07	Roof Special	1	1	R73430703
					Job Reference (optional)

NOTES-

15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 259 lb down and 153 lb up at 1-0-7 on top 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-B=-103, D-I=-62, I-L=-62, O-P=-20, C-D=-103
   Concentrated Loads (lb)
   Vert: B=-228

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	J01	Jack-Open	9	1	R73430704
					Job Reference (optional)

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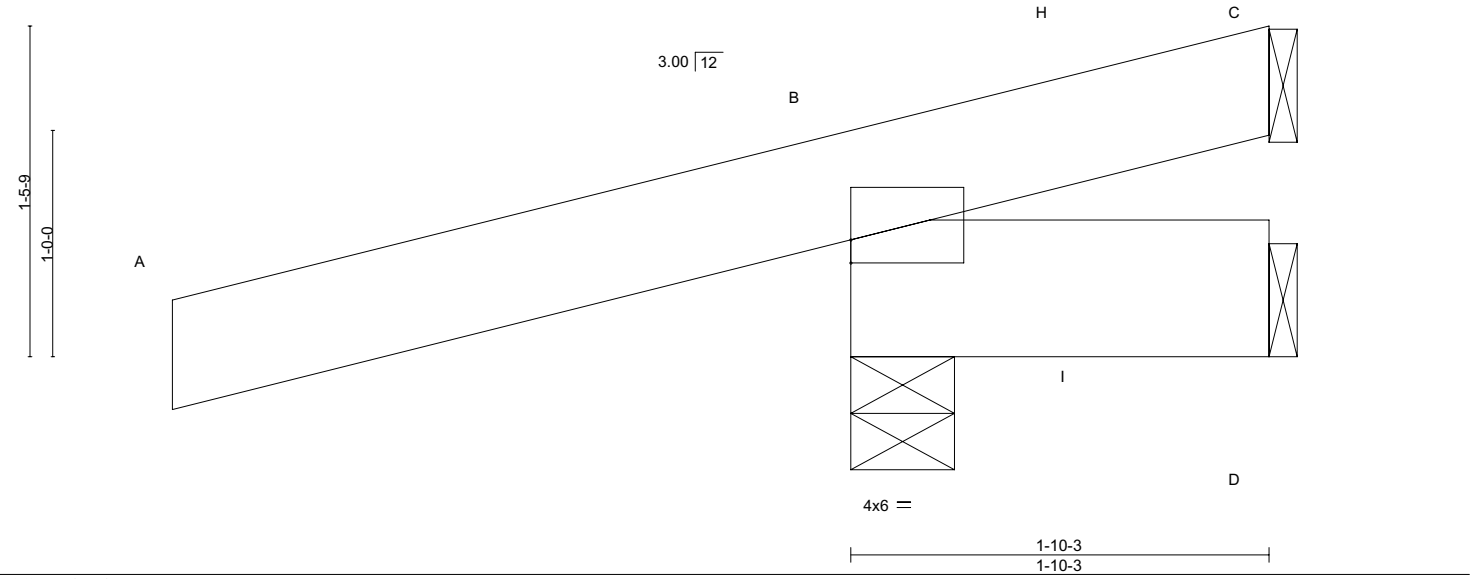

Plate Offsets (X,Y)-- [B:0-0-0,0-1-4]

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0		Plate Grip DOL	1.15	TC	0.24	Vert(LL)	0.00	G	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0		Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	G	>999	180		
TCDL	10.0		Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	C	n/a	n/a		
BCLL	0.0	*	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	-0.00	G	>999	360	Weight: 16 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x8 DF SS

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-3 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=57(LC 10)
Max Uplift C=-101(LC 18), B=-254(LC 10), D=-115(LC 18)
Max Grav C=246(LC 37), B=599(LC 18), D=247(LC 42)

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

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 101 lb uplift at joint C.
11) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) D and B. This connection is for uplift only and does not consider lateral forces.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	J02	Jack-Open	9	1	R73430705

Job Reference (optional)

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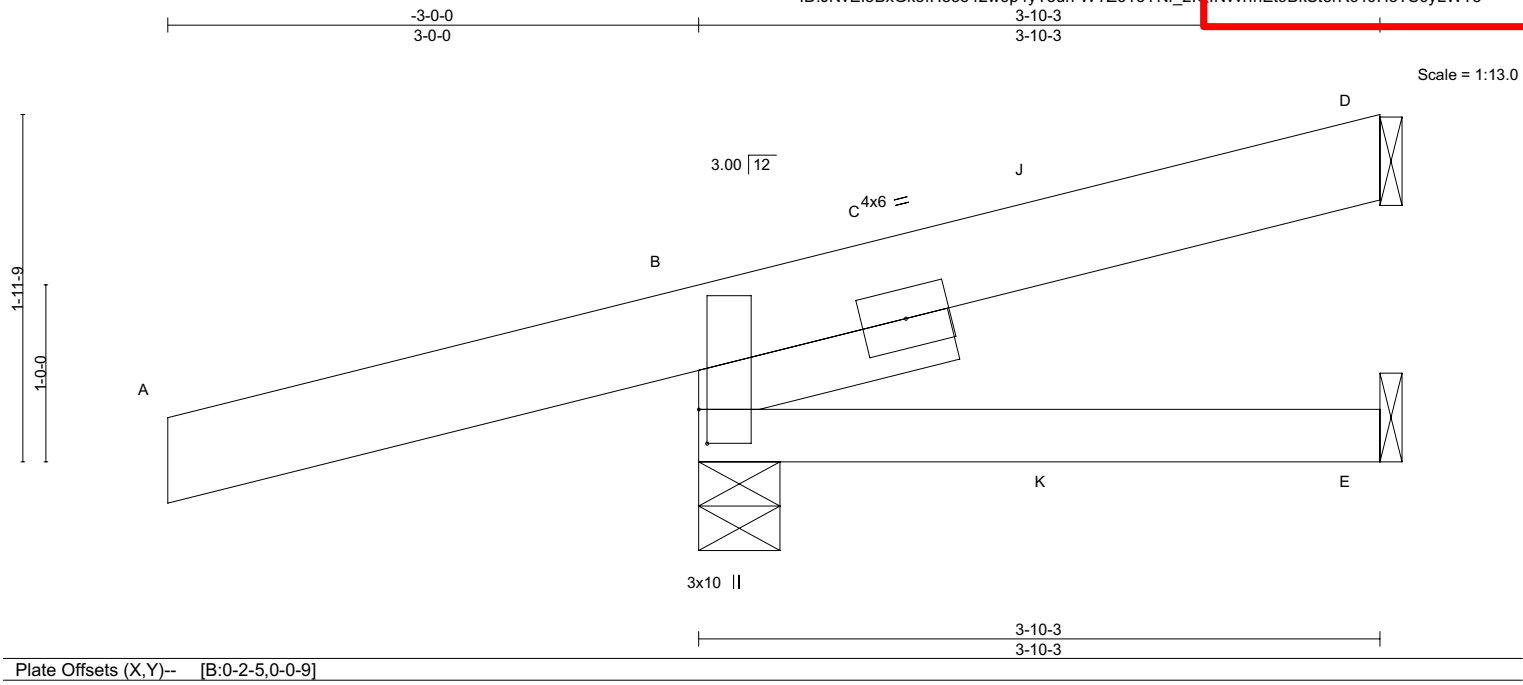

Plate Offsets (X,Y)-- [B:0-2-5,0-0-9]

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0		Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.02	E-H	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0		Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.03	E-H	>999	180		
TCDL	10.0		Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	B	n/a	n/a		
BCLL	0.0	*	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	-0.00	E-H	>999	360	Weight: 23 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
SLIDER Left 2x4 DF Stud/Std -G- 1-6-0

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

REACTIONS. (size) D=Mechanical, B=0-5-8, E=Mechanical
Max Horz B=75(LC 10)
Max Uplift D=-58(LC 18), B=-208(LC 10)
Max Grav D=278(LC 37), B=569(LC 19), E=280(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-294/420

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint D and 208 lb uplift at joint B.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	J03	Jack-Open	5	1	R73430706
					Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:37:47 2022 Page 1
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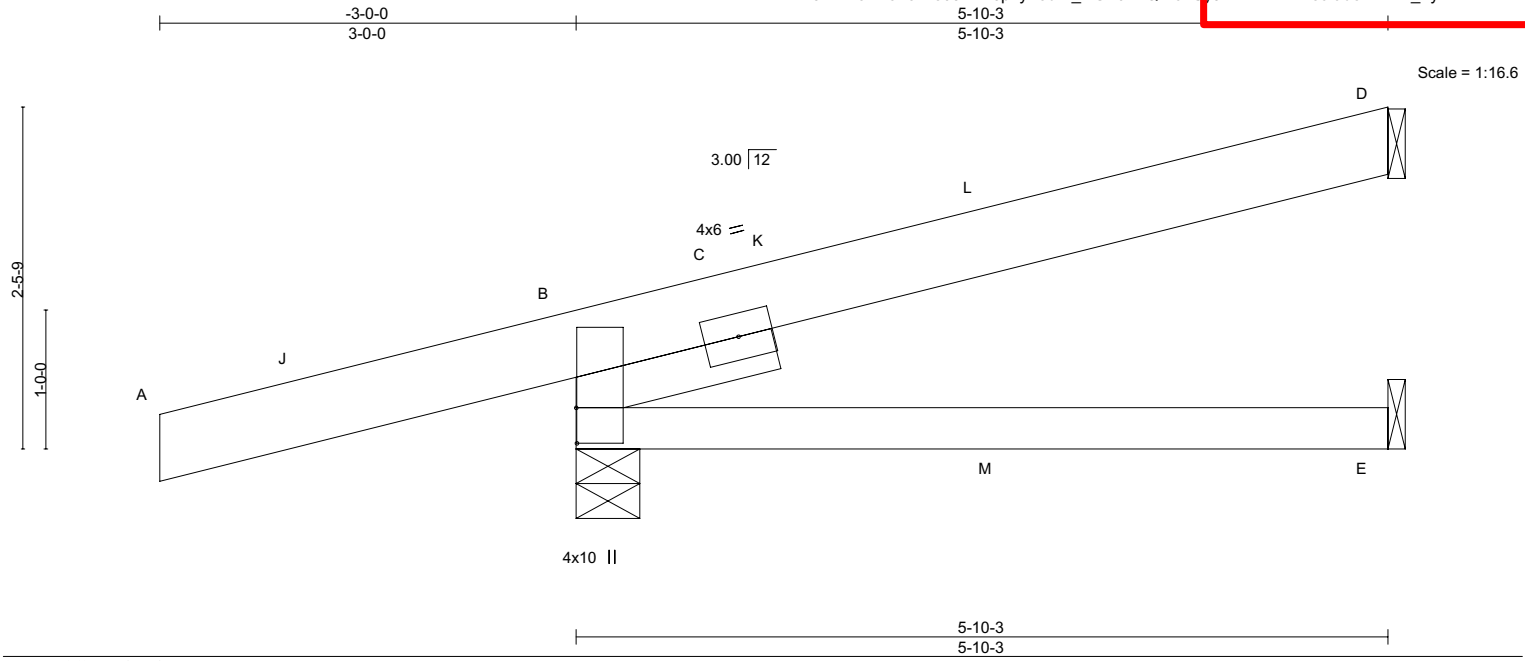

Plate Offsets (X,Y)-- [B:0-3-1,0-0-1]

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0		Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.09	E-H	>755	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0		Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.15	E-H	>478	180		
TCDL	10.0		Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	B	n/a	n/a		
BCLL	0.0	*	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	-0.01	E-H	>999	360	Weight: 30 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
SLIDER Left 2x4 DF Stud/Std -G- 1-6-0

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

REACTIONS. (size) D=Mechanical, B=0-5-8, E=Mechanical
Max Horz B=93(LC 10)
Max Uplift D=-53(LC 10), B=-205(LC 10)
Max Grav D=308(LC 37), B=599(LC 19), E=298(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-387/377

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -3-0-0 to 0-0-0, Interior(1) 0-0-0 to 1-6-8, Exterior(2R) 1-6-8 to 5-9-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint D and 205 lb uplift at joint B.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	J04	Jack-Open	3	1	R73430707

Job Reference (optional)

City of Portland
Reviewed for code compliance
Date: 04/16/24

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:37:48 2022 Page 1
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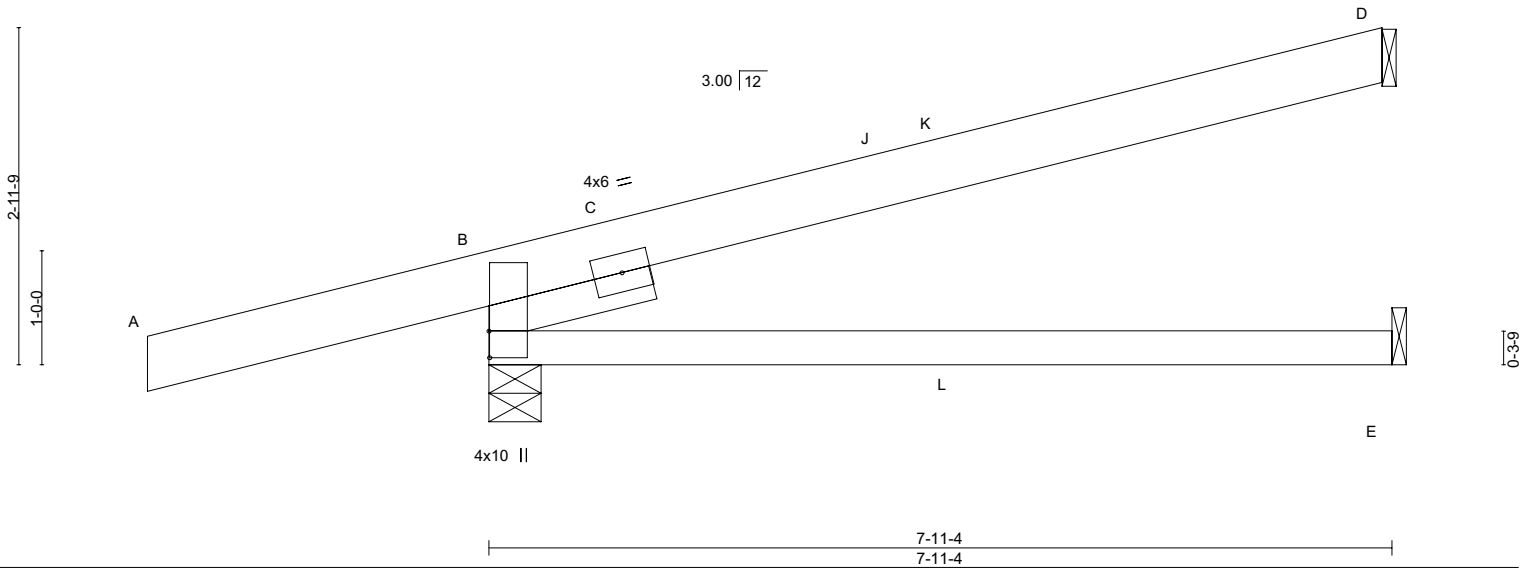

7-11-4 / 7-11-4

Plate Offsets (X,Y)-- [B:0-2-13,0-0-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.24	E-H	>399	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.44	E-H	>216	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.05	B	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.03	E-H	>999	360	Weight: 38 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
SLIDER Left 2x4 DF Stud/Std -G- 1-6-0

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) D=Mechanical, B=0-5-8, E=Mechanical
Max Horz B=112(LC 10)
Max Uplift D=-86(LC 10), B=-210(LC 10)
Max Grav D=335(LC 37), B=639(LC 19), E=316(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-603/299

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -3-0-0 to 0-0-0, Interior(1) 0-0-0 to 3-6-8, Exterior(2R) 3-6-8 to 7-9-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint D and 210 lb uplift at joint B.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	J05	Jack-Open	3	1	R73430708
					Job Reference (optional)

City of Portland
Reviewed for code compliance
Date: 04/16/24

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:37:50 2022 Page 1
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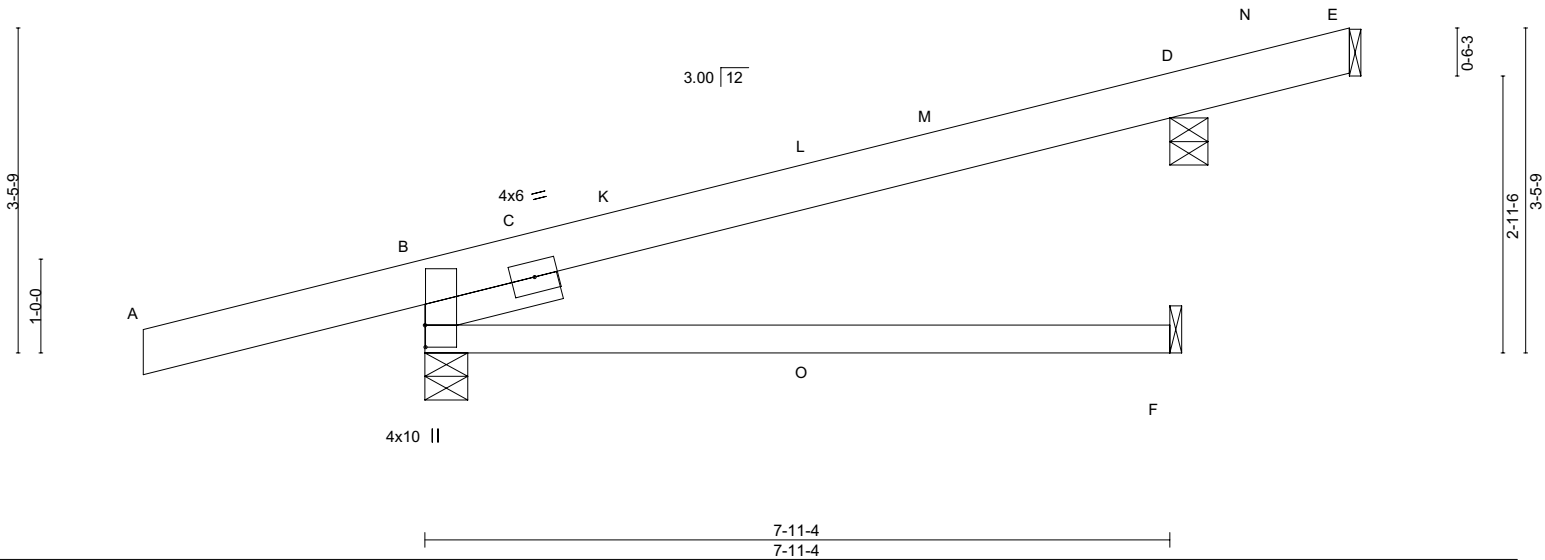

7-11-4
7-11-4

Plate Offsets (X,Y)-- [B:0-2-13,0-0-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.24	F-I	>396	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.45	F-I	>212	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.05	B	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	-0.04	F-I	>999	360	Weight: 42 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
SLIDER Left 2x4 DF Stud/Std -G- 1-6-0

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 Mechanical except (jt=length) B=0-5-8, D=0-4-14.
(lb) - Max Horz B=130(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) E except B=-208(LC 10), D=-119(LC 10)
Max Grav All reactions 250 lb or less at joint(s) except E=269(LC 39), B=613(LC 2), F=317(LC 44), D=390(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-596/300

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -3-0-0 to 0-0-0, Interior(1) 0-0-0 to 5-6-8, Exterior(2R) 5-6-8 to 9-9-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E except (jt=lb) B=208, D=119.
11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) D.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	J06	Jack-Open	3	1	R73430709

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:37:51 2022 Page 1
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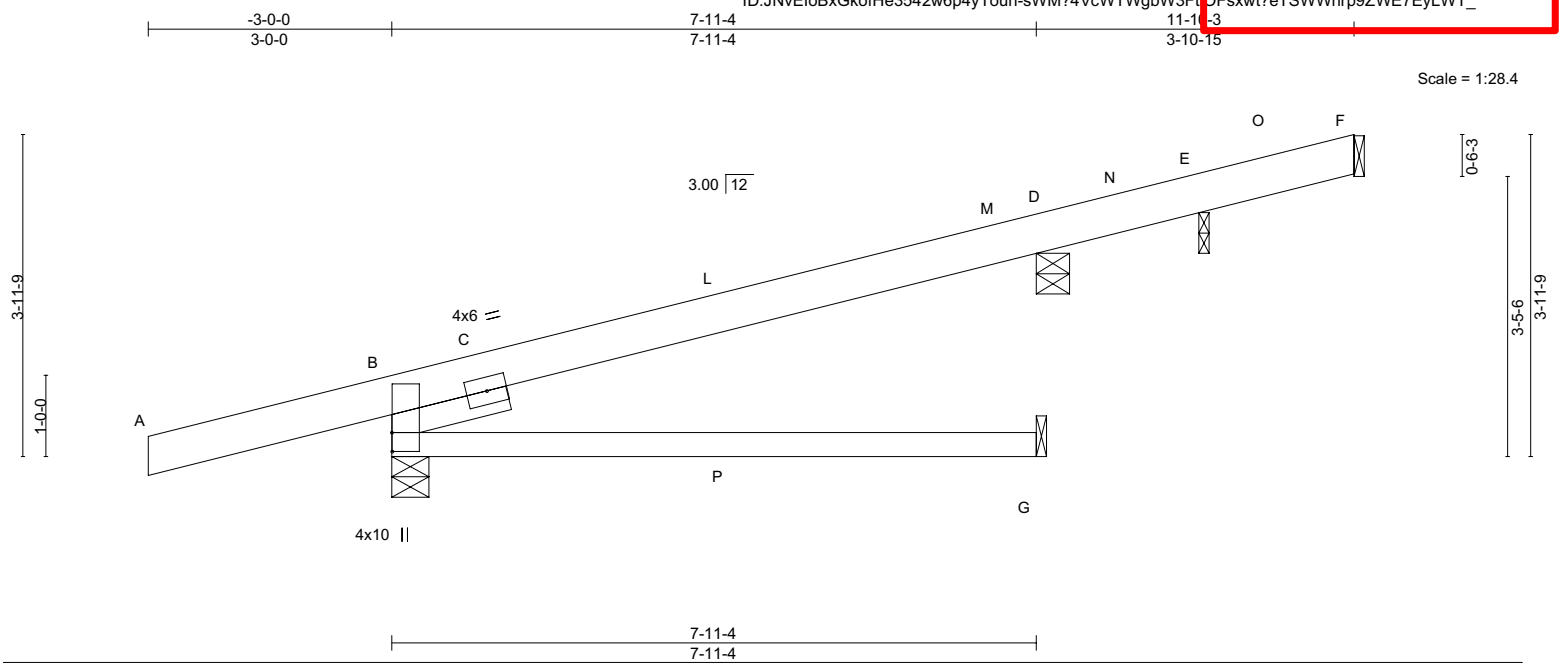

Plate Offsets (X,Y)-- [B:0-2-13,0-0-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.24	G-J	>396	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.45	G-J	>212	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.05	B	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	-0.04	G-J	>999	360	Weight: 47 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
SLIDER Left 2x4 DF Stud/Std -G- 1-6-0

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 Mechanical except (jt=length) B=0-5-8, D=0-4-14, E=0-1-8.
(lb) - Max Horz B=149(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) F, E except B=-202(LC 10), D=-123(LC 10)
Max Grav All reactions 250 lb or less at joint(s) except F=271(LC 41), B=613(LC 2), G=317(LC 46), D=382(LC 19), E=289(LC 40)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-596/300

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -3-0-0 to 0-0-0, Interior(1) 0-0-0 to 7-6-8, Exterior(2R) 7-6-8 to 11-9-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) E.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) F, E except (jt=lb) B=202, D=123.
12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) D, E.
13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	J07	Jack-Open	3	1	R734307[illegible] Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:37:53 2022 Page 1
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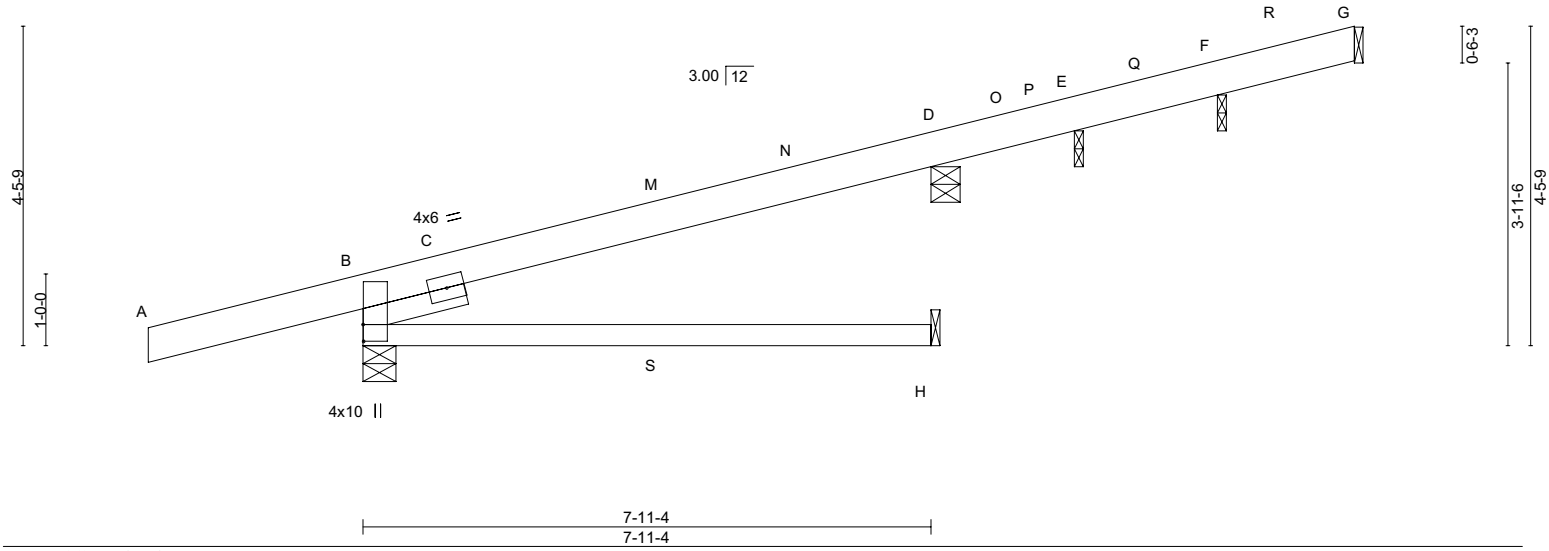

7-11-4
7-11-4

Plate Offsets (X,Y)-- [B:0-2-13,0-0-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.24	H-K	>396	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.45	H-K	>212	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.05	B	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	-0.04	H-K	>999	360	Weight: 51 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
SLIDER Left 2x4 DF Stud/Std -G- 1-6-0

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 Mechanical except (jt=length) B=0-5-8, D=0-4-14, E=0-1-8, F=0-1-8.
(lb) - Max Horz B=167(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) G, E, F except B=-196(LC 10), D=-124(LC 10)
Max Grav All reactions 250 lb or less at joint(s) except G=271(LC 43), B=613(LC 2), H=317(LC 48), D=356(LC 40), E=292(LC 41), F=291(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-596/300

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -3-0-0 to 0-0-0, Interior(1) 0-0-0 to 9-6-8, Exterior(2R) 9-6-8 to 13-9-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) E, F.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) G, E, F except (jt=lb) B=196, D=124.
12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) D, E, F.
13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	JAC	Jack-Open	1	1	R734307111
					Job Reference (optional)

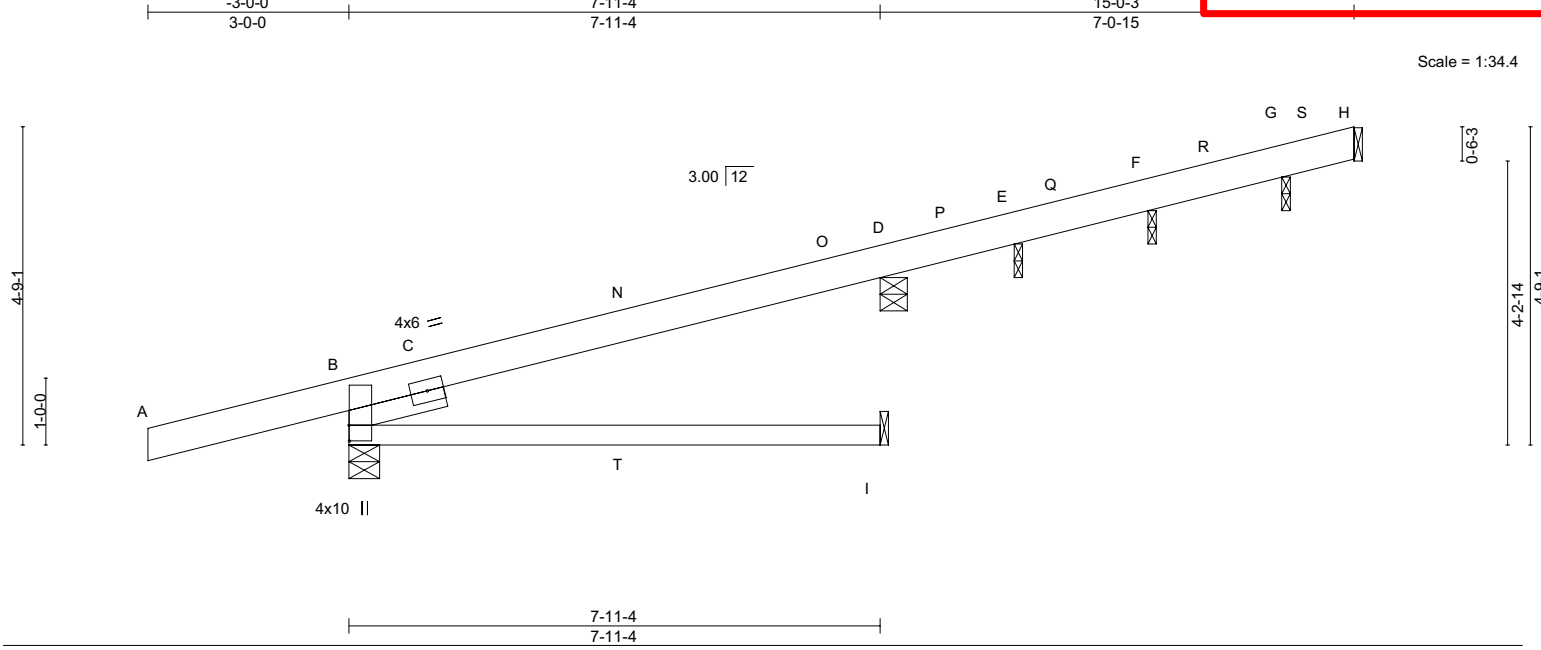

Plate Offsets (X,Y)-- [B:0-2-13,0-0-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.24	I-L	>396	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.45	I-L	>212	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.05	B	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	-0.04	I-L	>999	360	Weight: 54 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
SLIDER Left 2x4 DF Stud/Std -G- 1-6-0

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 0-1-8 except (jt=length) H=Mechanical, B=0-5-8, I=Mechanical, D=0-4-14.
(lb) - Max Horz B=178(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) H, E, F, G except B=-192(LC 10), D=-125(LC 10)
Max Grav All reactions 250 lb or less at joint(s) except H=263(LC 45), B=613(LC 2), I=317(LC 50), D=356(LC 41), E=292(LC 42), F=293(LC 43), G=283(LC 44)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-596/300

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -3-0-0 to 0-0-0, Interior(1) 0-0-0 to 10-8-8, Exterior(2R) 10-8-8 to 14-11-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) E, F, G.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) H, E, F, G except (jt=lb) B=192, D=125.
12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) D, E, F, G.
13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	JB01	Jack-Open	4	1	R734307125 Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:37:56 2022 Page 1
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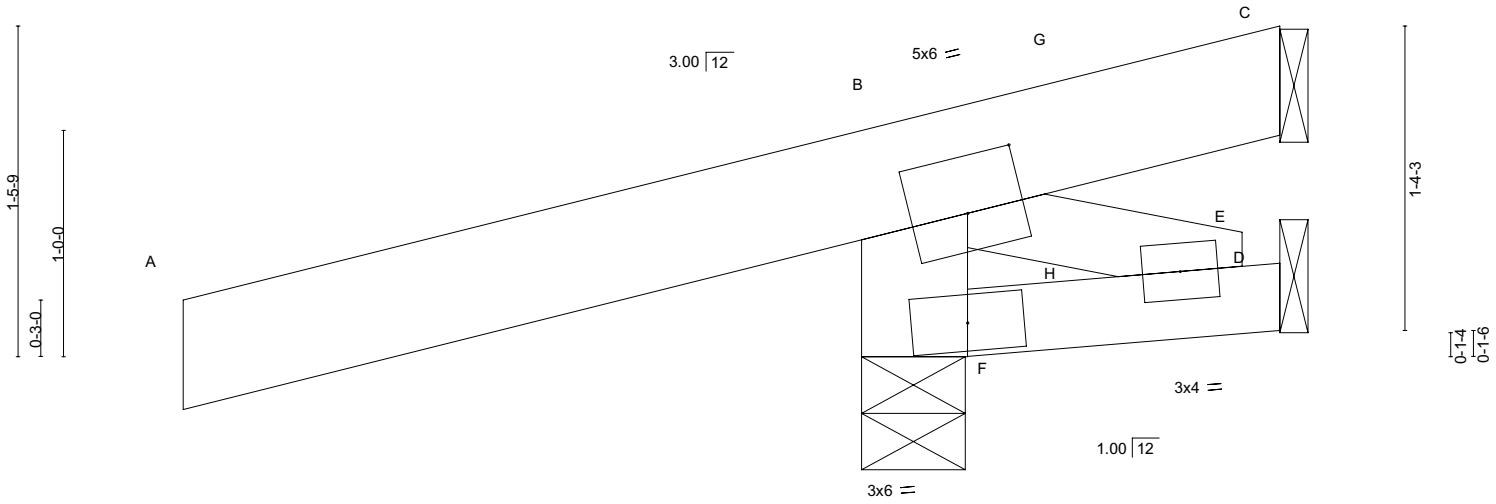

Plate Offsets (X,Y)-- [B:0-3-0,0-3-0]

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0		Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.00	E-F	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0		Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.00	E-F	>999	180		
TCDL	10.0		Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	C	n/a	n/a		
BCLL	0.0	*	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.00	F	>999	360	Weight: 16 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x6 DF SS G *Except*
B-E: 2x4 DF Stud/Std G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) C=Mechanical, D=Mechanical, F=0-5-8
Max Horz F=44(LC 10)
Max Uplift C=-321(LC 18), D=-12(LC 10), F=-295(LC 10)
Max Grav C=204(LC 35), D=247(LC 37), F=702(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-F=-686/509

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -3-0-0 to 0-2-13, Interior(1) 0-2-13 to 1-10-1 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Refer to girder(s) for truss to truss connections.
10) Bearing at joint(s) F considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) C=321.
12) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) D and F. This connection is for uplift only and does not consider lateral forces.
13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	JB01A	Jack-Open	2	1	R734307I3

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:37:58 2022 Page 1
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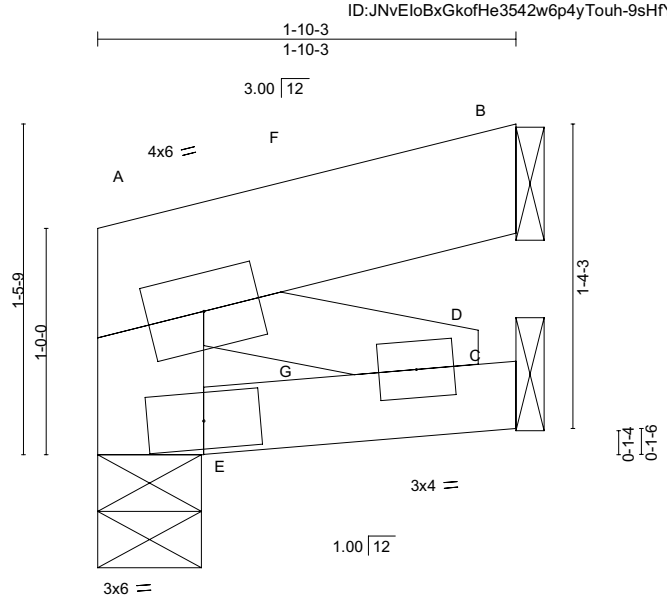

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	-0.00	D-E	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.00	D-E	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	B	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.00	E	>999	360	Weight: 9 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x6 DF SS G *Except*
A-D: 2x4 DF Stud/Std G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) B=Mechanical, C=Mechanical, E=0-5-8
Max Horz E=32(LC 14)
Max Uplift B=-25(LC 10), E=-7(LC 10)
Max Grav B=269(LC 34), C=247(LC 36), E=285(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-E=-269/31

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
8) Refer to girder(s) for truss to truss connections.
9) Bearing at joint(s) E considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B.
11) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) C and E. This connection is for uplift only and does not consider lateral forces.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	JB02	Jack-Open	4	1	R734307I4
					Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:37:39 2022 Page 1
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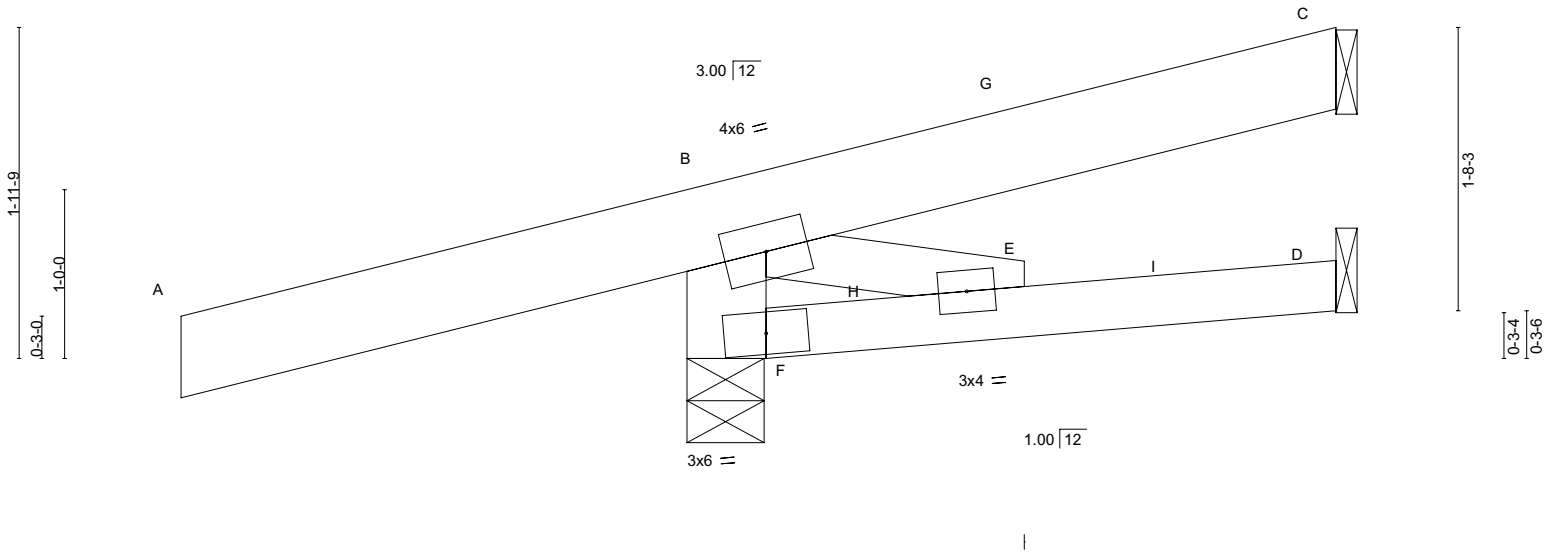

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.04	E	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.06	E	>736	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.02	C	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.01	E	>999	360	Weight: 24 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x6 DF SS G *Except*
B-E: 2x4 DF Stud/Std G

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

REACTIONS. (size) C=Mechanical, D=Mechanical, F=0-5-8
Max Horz F=89(LC 14)
Max Uplift C=-116(LC 18), F=-230(LC 10)
Max Grav C=259(LC 35), D=289(LC 40), F=601(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-F=-566/422

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Refer to girder(s) for truss to truss connections.
10) Bearing at joint(s) F considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) C=116.
12) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) D and F. This connection is for uplift only and does not consider lateral forces.
13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	JB02A	Jack-Open	1	1	R734307715
					Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:38:00 2022 Page 1
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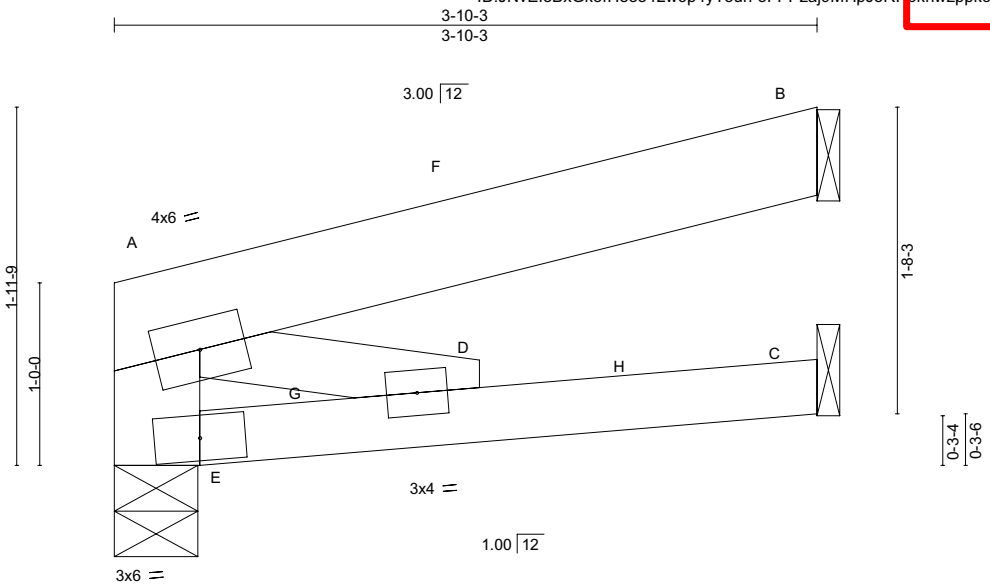

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	-0.04	D	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.06	D	>736	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.02	B	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.00	D	>999	360	Weight: 17 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x6 DF SS G *Except*
A-D: 2x4 DF Stud/Std G

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

REACTIONS. (size) B=Mechanical, C=Mechanical, E=0-5-8
Max Horz E=48(LC 14)
Max Uplift B=-54(LC 10), E=-20(LC 10)
Max Grav B=289(LC 34), C=289(LC 39), E=324(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-E=-289/82

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
8) Refer to girder(s) for truss to truss connections.
9) Bearing at joint(s) E considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B.
11) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) C and E. This connection is for uplift only and does not consider lateral forces.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	JB02B	Jack-Open	1	1	R734307716
					Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:38:01 2022 Page 1
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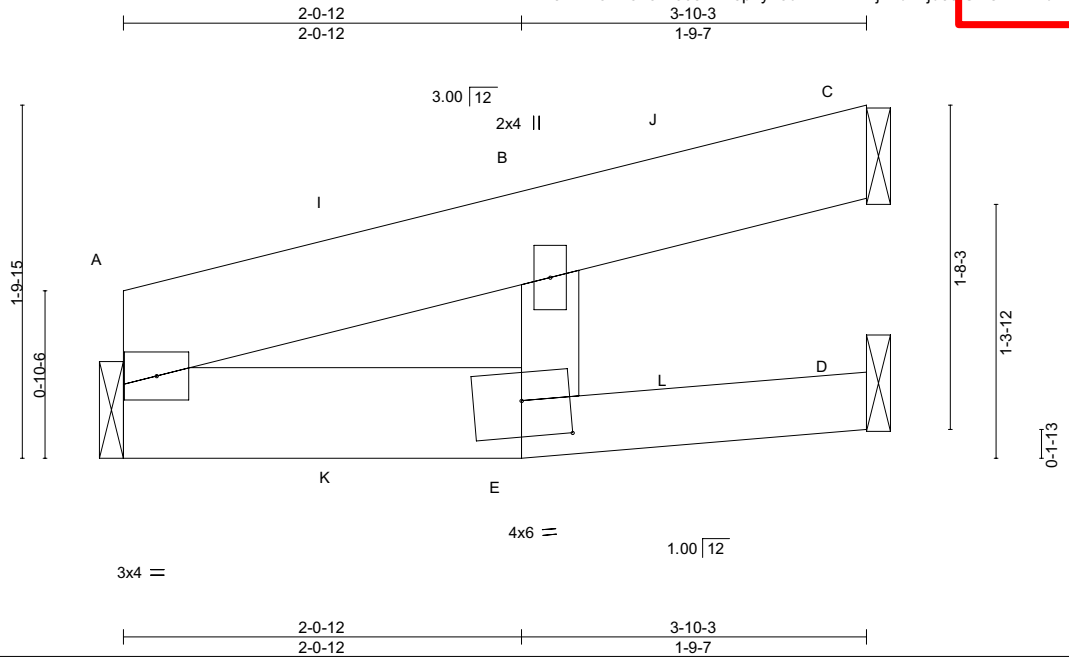

Plate Offsets (X,Y)-- [E:0-3-0,0-2-4]

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0		Plate Grip DOL	1.15	TC	0.13	Vert(LL)	-0.01	E	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0		Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.02	E	>999	180		
TCDL	10.0		Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	A	n/a	n/a		
BCLL	0.0	*	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.01	E	>999	360	Weight: 17 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x6 DF SS G *Except*
D-E: 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G

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

REACTIONS. (size) A=Mechanical, C=Mechanical, D=Mechanical
Max Horz A=35(LC 10)
Max Uplift A=-23(LC 10), C=-49(LC 10)
Max Grav A=329(LC 32), C=311(LC 38), D=270(LC 45)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-E=-17/332

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C.
10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) A and D. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	JB03	Jack-Open	1	1	R734307177

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:38:03 2022 Page 1
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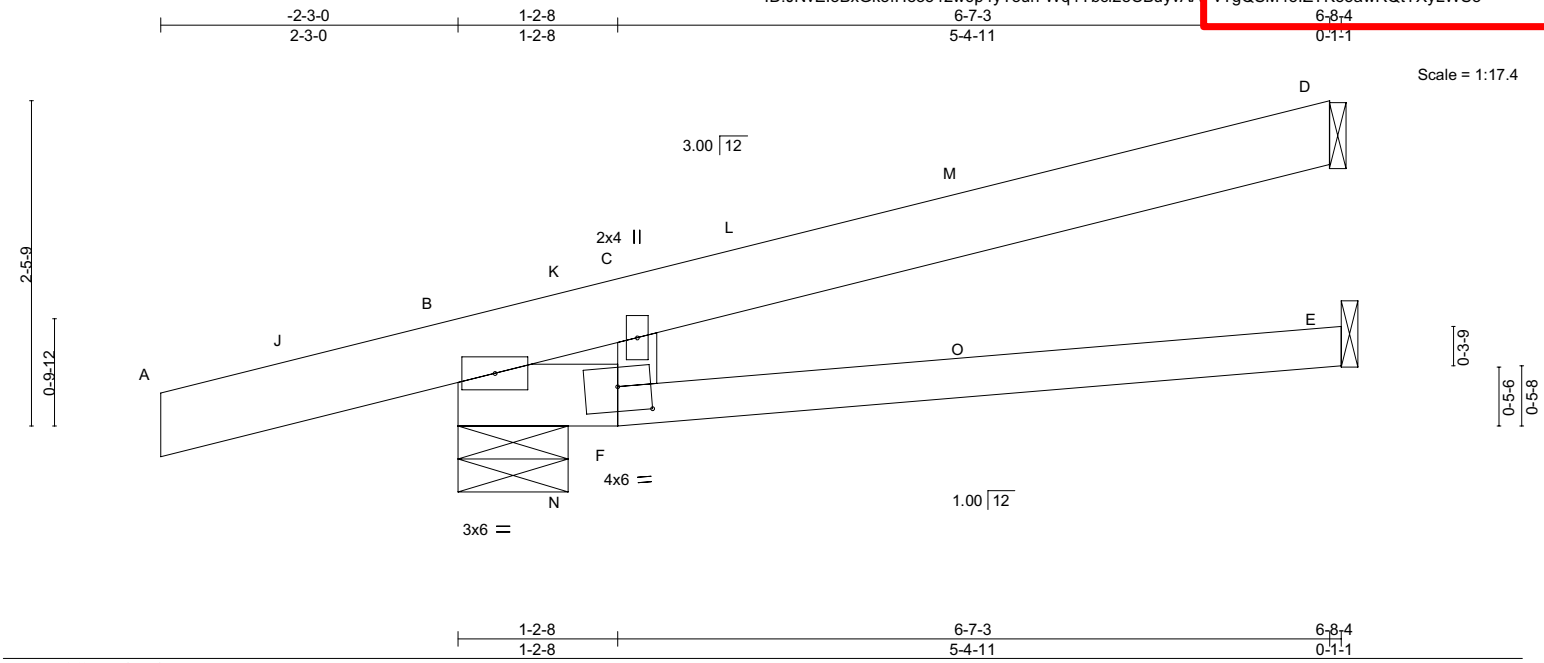

Plate Offsets (X,Y)-- [F:0-3-0,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.15	E-F	>515	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.25	E-F	>315	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.02	B	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.02	F	>999	360	Weight: 31 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x6 DF SS G *Except*
E-F: 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G

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

REACTIONS. (size) D=Mechanical, B=0-10-0, E=Mechanical
Max Horz B=90(LC 10)
Max Uplift D=-79(LC 10), B=-162(LC 10)
Max Grav D=323(LC 39), B=545(LC 19), E=307(LC 46)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-F=-81/429

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-3-0 to 0-6-11, Interior(1) 0-6-11 to 2-3-8, Exterior(2R) 2-3-8 to 6-6-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Refer to girder(s) for truss to truss connections.
10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) D and B. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	JB03B	Jack-Open	1	1	R734307718
					Job Reference (optional)

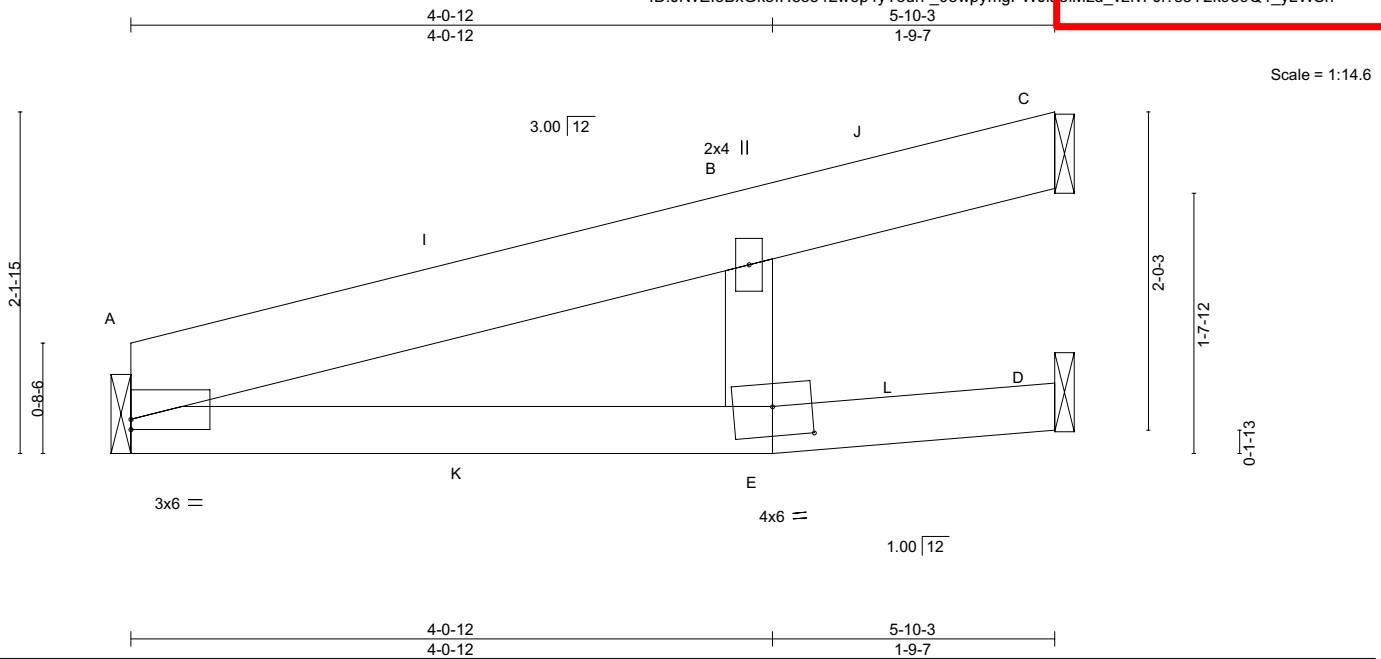

Plate Offsets (X,Y)-- [A:0-0-0,0-0-12], [E:0-3-0,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.05	E-H	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.10	E-H	>710	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	C	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.03	E	>999	360	Weight: 23 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) A=Mechanical, C=Mechanical, D=Mechanical
Max Horz A=53(LC 10)
Max Uplift A=-38(LC 10), C=-67(LC 10)
Max Grav A=369(LC 32), C=351(LC 38), D=270(LC 45)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS B-E=0/320

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C.
10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) A and D. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	JB03C	Jack-Open	2	1	R734307I9
					Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:38:06 2022 Page 1
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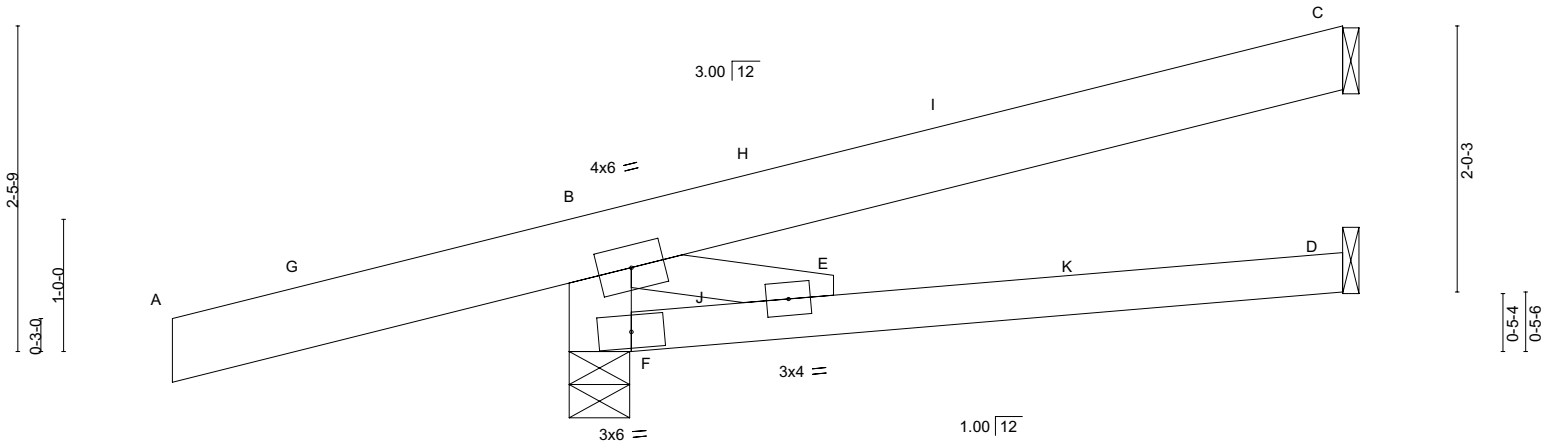

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.14	D-E	>478	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.23	D-E	>288	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.08	C	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.03	D-E	>999	360	Weight: 31 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x6 DF SS G *Except*
B-E: 2x4 DF Stud/Std G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) C=Mechanical, D=Mechanical, F=0-5-8
Max Horz F=105(LC 14)
Max Uplift C=-42(LC 18), F=-221(LC 10)
Max Grav C=290(LC 35), D=309(LC 40), F=619(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-F=-564/421

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -3-0-0 to 0-2-13, Interior(1) 0-2-13 to 1-6-8, Exterior(2R) 1-6-8 to 5-9-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Refer to girder(s) for truss to truss connections.
10) Bearing at joint(s) F considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C.
12) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) D and F. This connection is for uplift only and does not consider lateral forces.
13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	JB03D	Jack-Open	1	1	R73430720

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:38:07 2022 Page 1
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3-0-0 5-10-3

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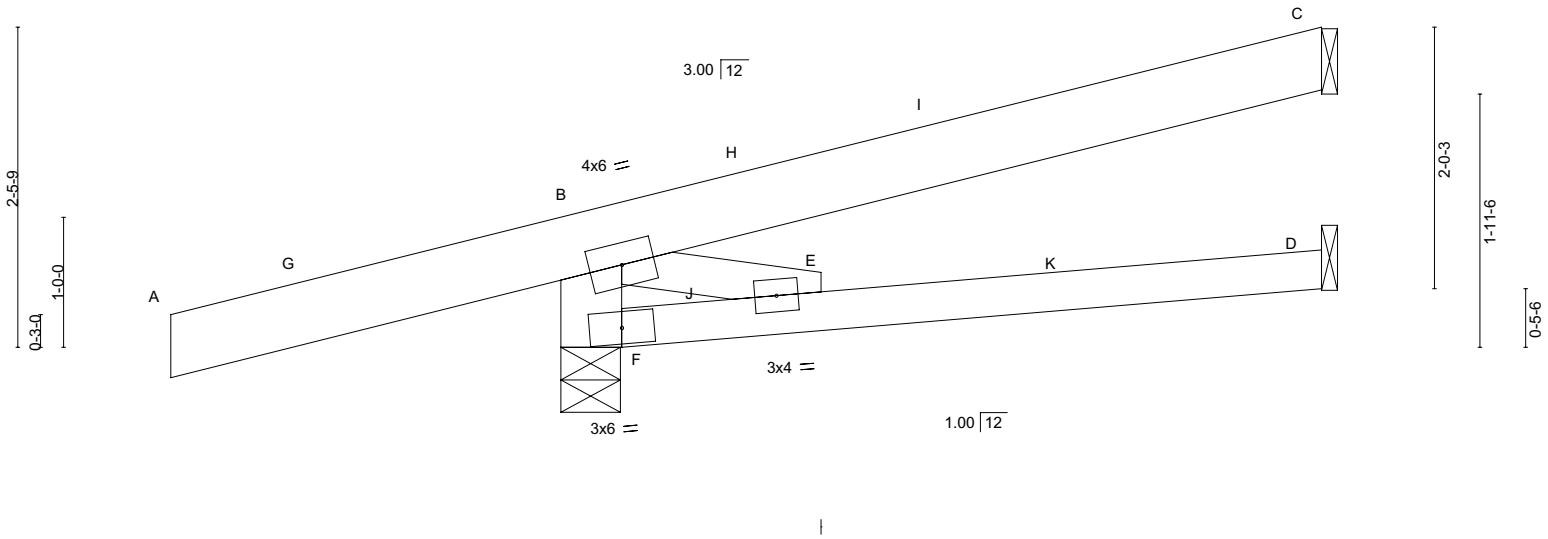

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.14	D-E	>478	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.23	D-E	>288	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.08	C	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.03	D-E	>999	360	Weight: 31 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x6 DF SS G *Except*
B-E: 2x4 DF Stud/Std G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) C=Mechanical, D=Mechanical, F=0-5-8
Max Horz F=105(LC 14)
Max Uplift C=-42(LC 18), F=-221(LC 10)
Max Grav C=290(LC 35), D=309(LC 40), F=619(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-F=-564/421

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -3-0-0 to 0-2-13, Interior(1) 0-2-13 to 1-6-8, Exterior(2R) 1-6-8 to 5-9-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Refer to girder(s) for truss to truss connections.
10) Bearing at joint(s) F considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C.
12) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) D and F. This connection is for uplift only and does not consider lateral forces.
13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	JB04	Jack-Open	1	1	R73430721

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:38:09 2022 Page 1
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2-3-0 1-2-8 5-5-12 1-10-15

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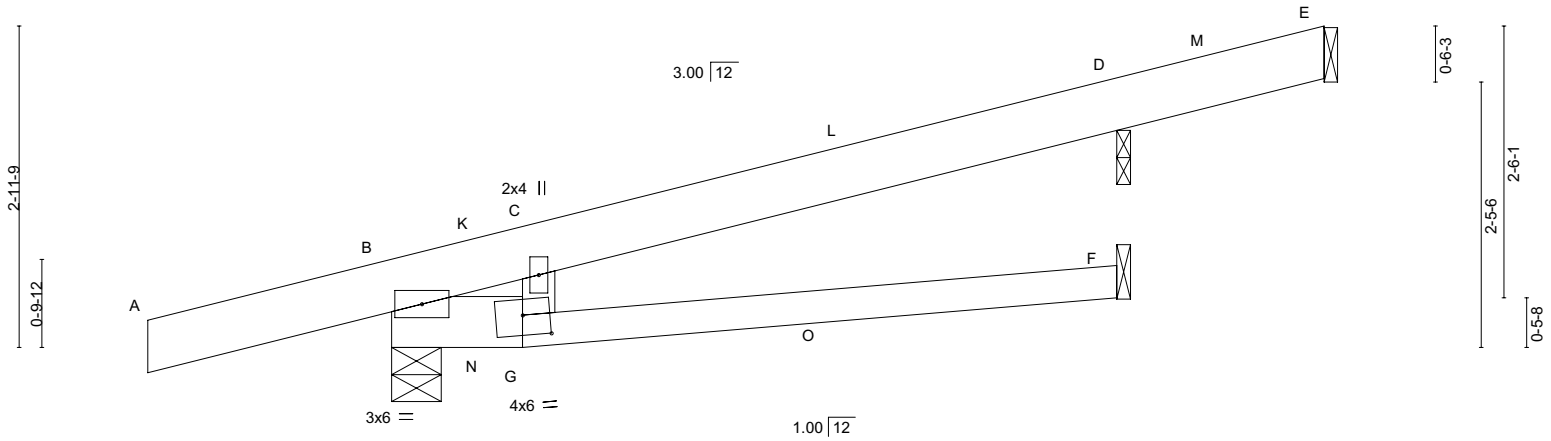

1-2-8 6-8-4 6-9-0
1-2-8 5-5-12 0-0-12

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	-0.15	F-G	>514	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.25	F-G	>313	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.02	B	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.02	G	>999	360	Weight: 35 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x6 DF SS G *Except*
F-G: 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G

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

REACTIONS. All bearings Mechanical except (jt=length) B=0-5-8, D=0-1-8.
(lb) - Max Horz B=109(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) E except B=-159(LC 10), D=-111(LC 10)
Max Grav All reactions 250 lb or less at joint(s) except E=271(LC 41), B=502(LC 19), F=307(LC 48), D=360(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-G=-80/431

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-3-0 to 0-6-11, Interior(1) 0-6-11 to 4-3-8, Exterior(2R) 4-3-8 to 8-6-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) D.
11) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) E, B, and D. This connection is for uplift only and does not consider lateral forces.
12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) D.
13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	JB04C	Jack-Open	2	1	Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:38:10 2022 Page 1
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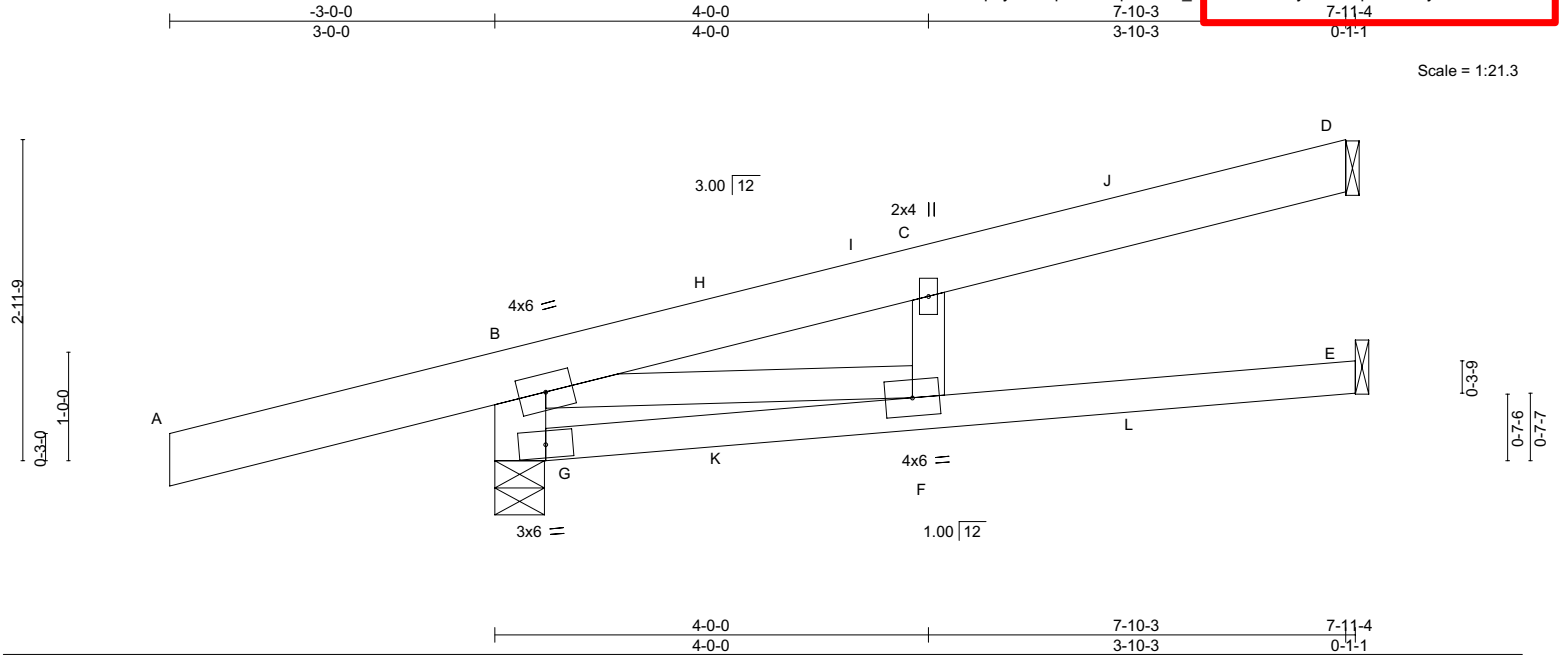

LOADING (psf)
TCLL (roof) 25.0
Snow (Pf/Pg) 20.8/30.0
TCDL 10.0
BCLL 0.0 *
BCDL 10.0

SPACING- 2-0-0
Plate Grip DOL 1.15
Lumber DOL 1.15
Rep Stress Incr YES
Code IRC2018/TPI2014

CSI.
TC 0.29
BC 0.40
WB 0.11
Matrix-AS

DEFL.	in	(loc)	l/defl	L/d
Vert(LL)	-0.08	F	>999	240
Vert(CT)	-0.18	F	>522	180
Horz(CT)	0.03	D	n/a	n/a
Wind(LL)	0.04	F	>999	360

PLATES MT20 **GRIP** 220/195
Weight: 42 lb FT = 20%

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G *Except*
B-G: 2x6 DF SS G

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

REACTIONS. (size) D=Mechanical, E=Mechanical, G=0-5-8
Max Horz G=122(LC 14)
Max Uplift D=-62(LC 10), G=-224(LC 10)
Max Grav D=348(LC 37), E=296(LC 42), G=648(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-G=-583/429
WEBS C-F=0/273

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -3-0-0 to 0-2-13, Interior(1) 0-2-13 to 3-6-8, Exterior(2R) 3-6-8 to 7-9-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Refer to girder(s) for truss to truss connections.
10) Bearing at joint(s) G considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) D and G. This connection is for uplift only and does not consider lateral forces.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
14) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430723
22010709-A	JB05	Jack-Open	1	1	Job Reference (optional)	

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:38:12 2022 Page 1
ID:JNvEIoBxGkofHe3542w6p4yTouh-lY7xUhshXzKcX[illegible]MvRI7nILEcdxefx9Jv?K5rMWyLWSf

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2-3-0 1-2-8 5-5-12 2-3-3 1-7-12

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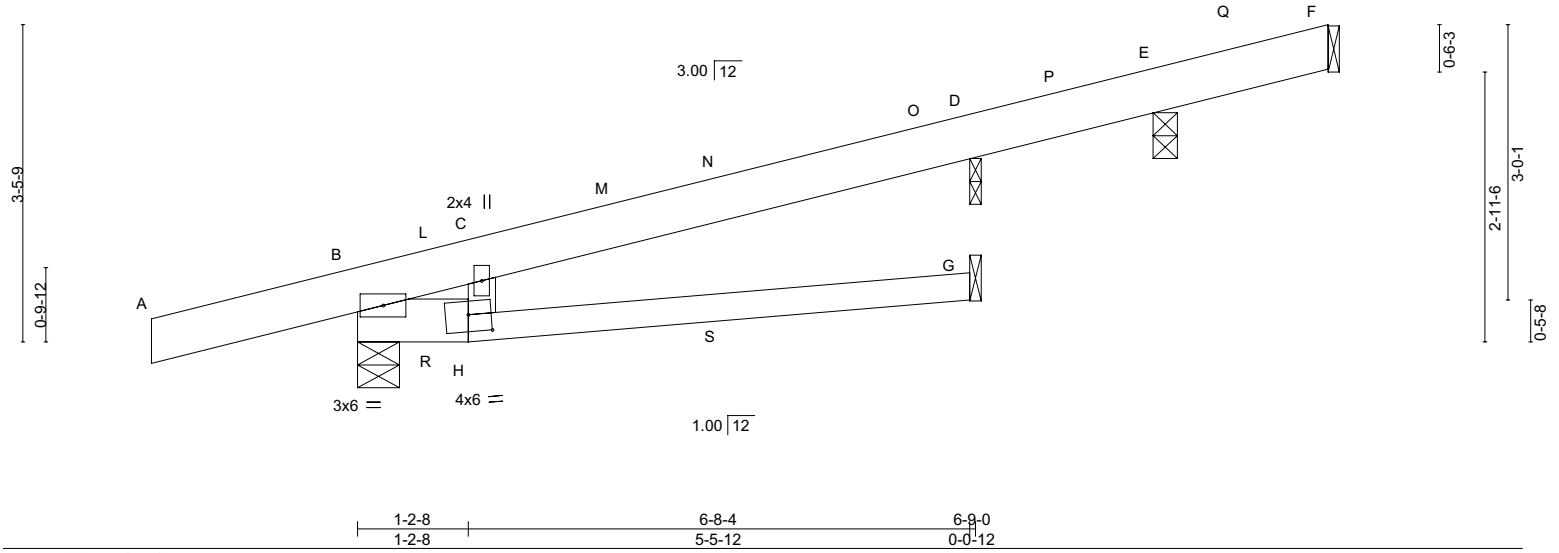

1-2-8 6-8-4 6-9-0
1-2-8 5-5-12 0-0-12

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

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0		Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.15	G-H	>514	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0		Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.25	G-H	>313	180		
TCDL	10.0		Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.02	B	n/a	n/a		
BCLL	0.0	*	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.02	H	>999	360	Weight: 40 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x6 DF SS G *Except*
G-H: 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G

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

REACTIONS. All bearings Mechanical except (jt=length) B=0-5-8, D=0-1-8, E=0-3-3.
(lb) - Max Horz B=127(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) F, E except B=-153(LC 10), D=-116(LC 10)
Max Grav All reactions 250 lb or less at joint(s) except F=270(LC 43), B=486(LC 2), G=307(LC 50), D=358(LC 19), E=291(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-H=-80/431

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-3-0 to 0-6-11, Interior(1) 0-6-11 to 6-3-8, Exterior(2R) 6-3-8 to 10-6-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) D.
11) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) F, B, D, and E. This connection is for uplift only and does not consider lateral forces.
12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) D, E.
13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	JB06	Jack-Open	1	1	R73430724

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:38:13 2022 Page 1
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-2-3-0 | 1-2-8 | 6-8-4 | 8-11-7 | 10-11-7 | 12-7-3
2-3-0 | 1-2-8 | 5-5-12 | 2-3-3 | 2-0-0 | 1-7-12

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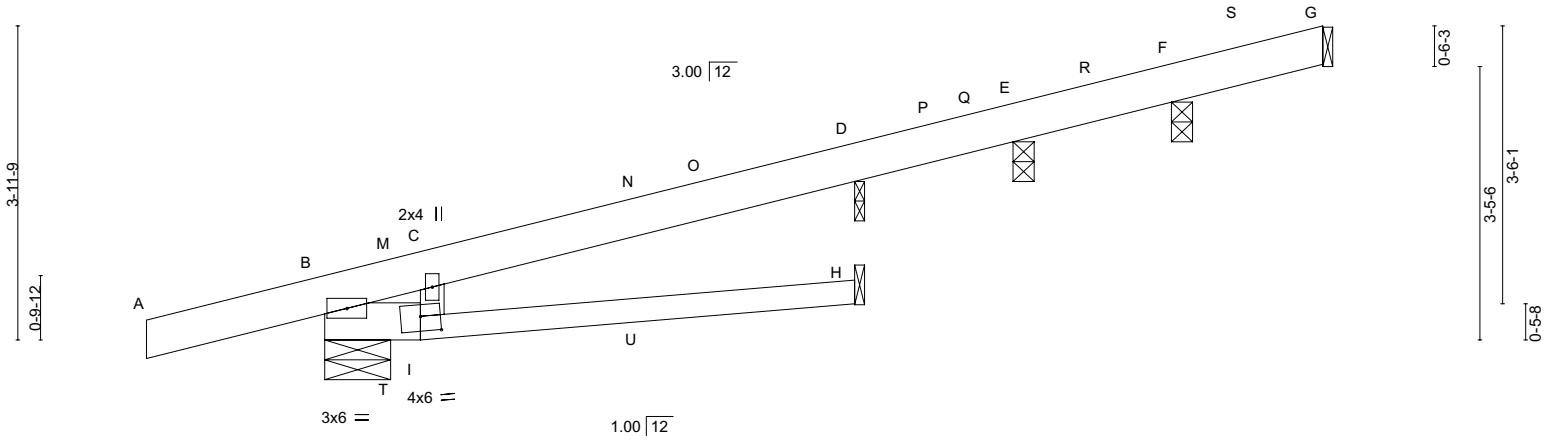

1-2-8 | 6-8-4 | 6-9-0
1-2-8 | 5-5-12 | 0-0-12

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

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0		Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.15	H-I	>514	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0		Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.25	H-I	>313	180		
TCDL	10.0		Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.02	B	n/a	n/a		
BCLL	0.0	*	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.02	I	>999	360	Weight: 44 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x6 DF SS G *Except*
H-I: 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G

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

REACTIONS. All bearings Mechanical except (jt=length) B=0-10-0, D=0-1-8, E=0-3-3, F=0-3-3.
(lb) - Max Horz B=145(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) G, E, F except B=-148(LC 10), D=-117(LC 10)
Max Grav All reactions 250 lb or less at joint(s) except G=270(LC 45), B=486(LC 2), H=307(LC 52), D=346(LC 42), E=294(LC 43), F=290(LC 44)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS C-I=-80/431

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-3-0 to 0-6-11, Interior(1) 0-6-11 to 8-3-8, Exterior(2R) 8-3-8 to 12-6-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) D.
11) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) G, B, D, E, and F. This connection is for uplift only and does not consider lateral forces.
12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) D, E, F.
13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	JB07	Jack-Open	1	1	R73430725

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:38:15 2022 Page 1
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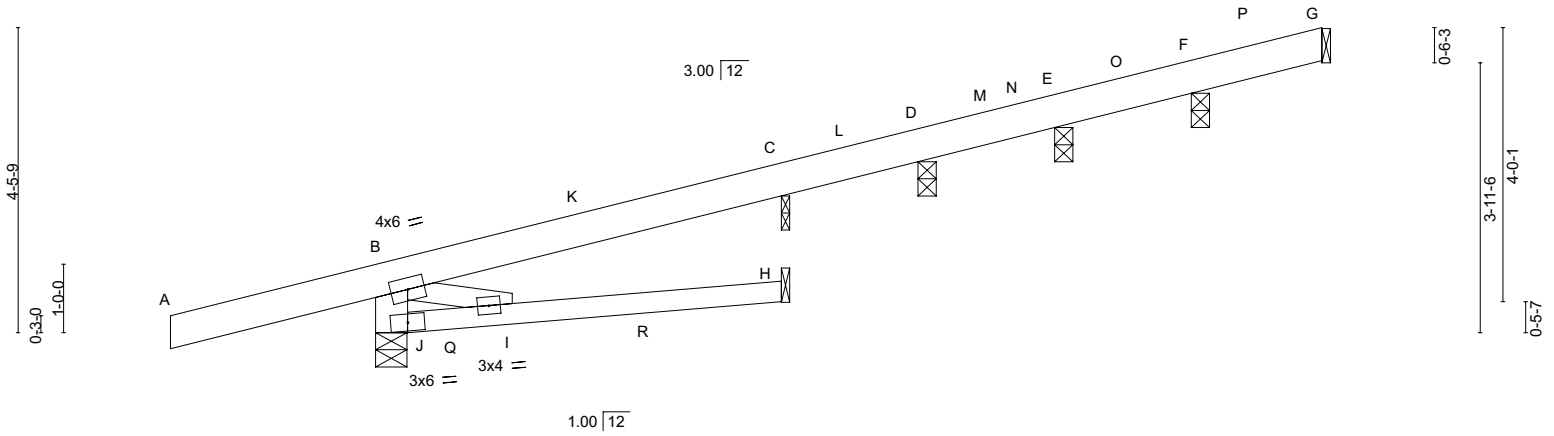

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.15	H-I	>461	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.24	H-I	>277	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.08	G	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.04	H-I	>999	360	Weight: 49 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x6 DF SS G *Except*
B-I: 2x4 DF Stud/Std G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-3 except (jt=length) G=Mechanical, H=Mechanical, C=0-1-8, J=0-5-8.
(lb) - Max Horz J=172(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) G, C, D, E, F except J=-195(LC 10)
Max Grav All reactions 250 lb or less at joint(s) except G=270(LC 43), H=309(LC 48), C=313(LC 39), D=294(LC 40), E=293(LC 41), F=290(LC 42), J=548(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-J=-492/308
BOT CHORD I-J=-294/90
WEBS B-I=-97/310

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -3-0-0 to 0-2-13, Interior(1) 0-2-13 to 9-6-8, Exterior(2R) 9-6-8 to 13-9-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Refer to girder(s) for truss to truss connections.
10) Bearing at joint(s) J considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate at joint(s) C.
12) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) G, C, D, E, F, and J. This connection is for uplift only and does not consider lateral forces.
13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) C, D, E, F.
14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
15) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	JB08	Jack-Open	1	1	R73430726

Job Reference (optional)

City of Portland
Reviewed for code compliance
Date: 04/16/24

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:38:17 2022 Page 1
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5-11-4 | 15-10-3
5-11-4 | 9-10-15

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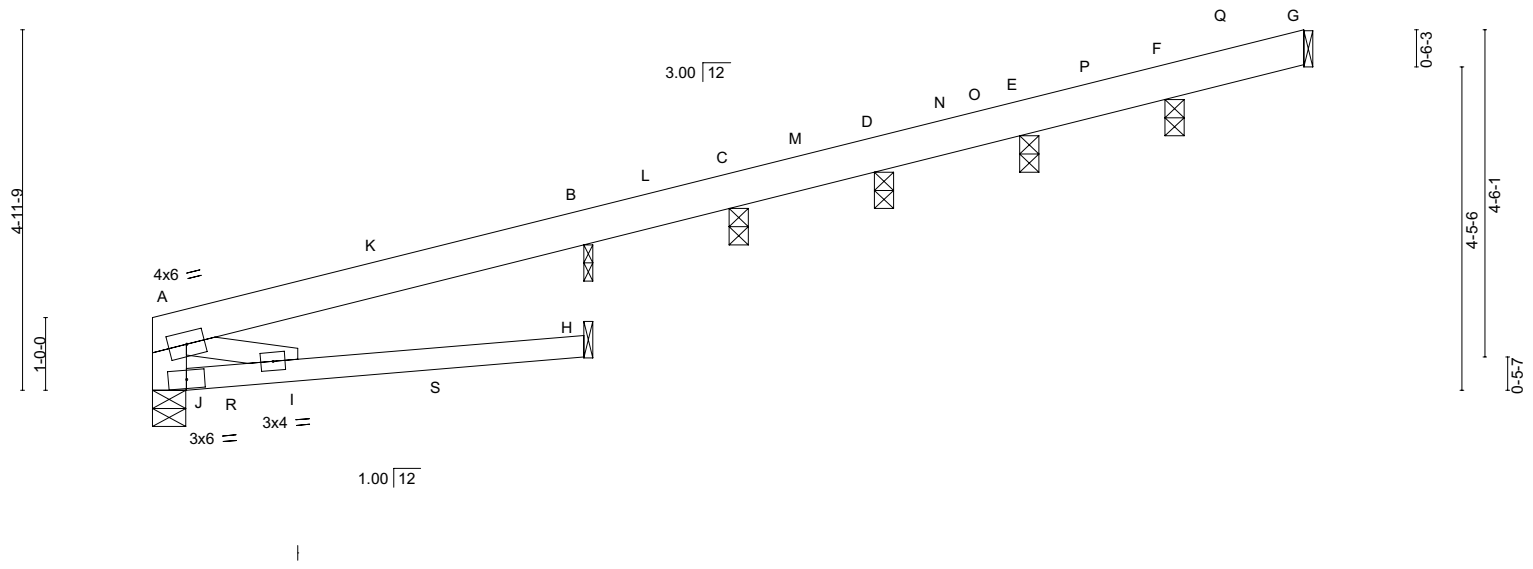

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.15	H-I	>461	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.24	H-I	>277	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.08	G	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.04	H-I	>999	360	Weight: 47 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x6 DF SS G *Except*
A-I: 2x4 DF Stud/Std G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-3 except (jt=length) G=Mechanical, H=Mechanical, B=0-1-8, J=0-5-8.
(lb) - Max Horz J=148(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) G, C, D, E, F, J except B=-120(LC 10)
Max Grav All reactions 250 lb or less at joint(s) except G=270(LC 45), H=309(LC 50), B=331(LC 40), C=294(LC 41), D=293(LC 42), E=293(LC 43), F=290(LC 44), J=367(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-J=-311/35
BOT CHORD I-J=-268/122
WEBS A-I=-132/282

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-2-13 to 3-2-13, Interior(1) 3-2-13 to 11-6-8, Exterior(2R) 11-6-8 to 15-9-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
8) Refer to girder(s) for truss to truss connections.
9) Bearing at joint(s) J considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) B.
11) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) G, B, C, D, E, F, and J. This connection is for uplift only and does not consider lateral forces.
12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) B, C, D, E, F.
13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430727
22010709-A	JBG	Jack-Closed Girder	1	1	Job Reference (optional)	

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:38:20 2022 Page 1
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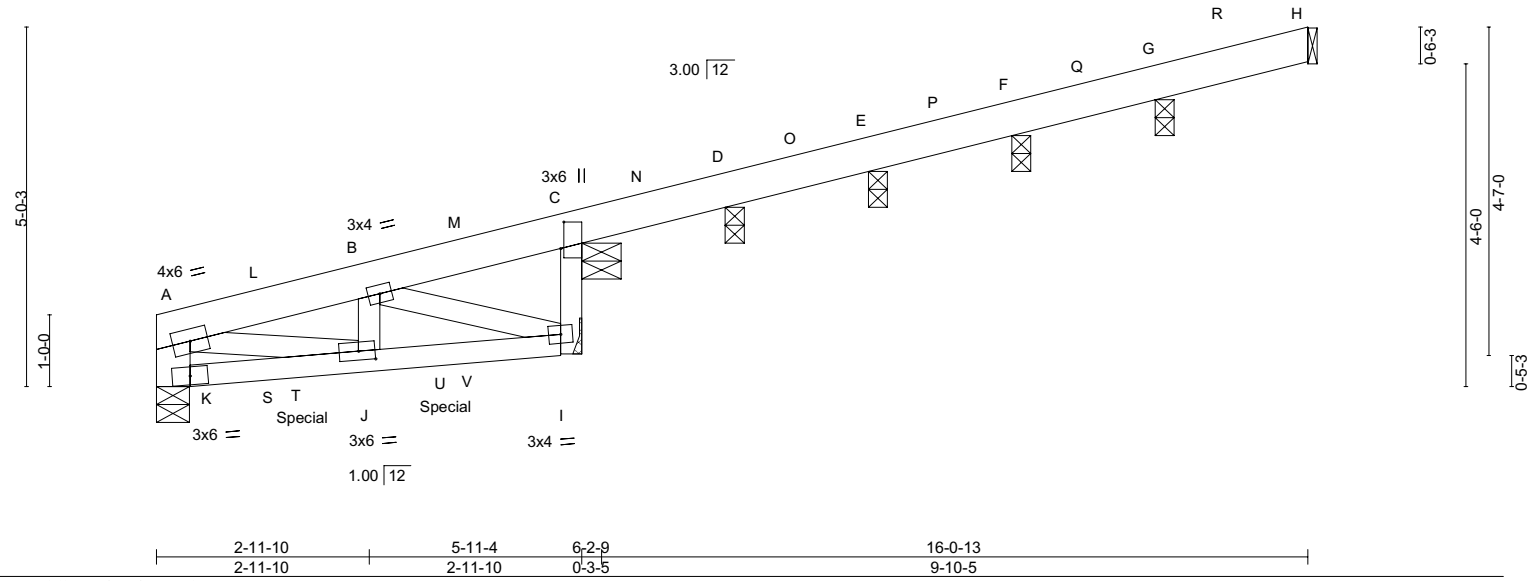

2-11-10 5-11-4 6-2-9 16-0-13
2-11-10 2-11-10 0-3-5 9-10-5

Plate Offsets (X,Y)-- [C:0-4-7,0-0-9], [J:0-2-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.02	I-J	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.04	I-J	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.31	Horz(CT)	0.00	I	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.01	I-J	>999	360	Weight: 55 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G *Except*
A-K: 2x6 DF SS G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-3 except (jt=length) H=Mechanical, C=0-6-9, K=0-5-8, I=Mechanical.
(lb) - Max Horz K=136(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) H, C, D, E, F, G, K, I
Max Grav All reactions 250 lb or less at joint(s) except H=272(LC 45), C=313(LC 34), D=296(LC 41), E=293(LC 42), F=293(LC 43), G=292(LC 44), K=500(LC 1), I=412(LC 50)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-K=-451/57, A-B=-733/71
BOT CHORD I-J=-165/701
WEBS A-J=-58/701, B-I=-726/188, B-J=-44/304

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
8) Refer to girder(s) for truss to truss connections.
9) Refer to girder(s) for truss to truss connections.
10) Bearing at joint(s) K considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) I.
12) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) H, C, D, E, F, G, and K. This connection is for uplift only and does not consider lateral forces.
13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) C, D, E, F, G.
14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
15) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
16) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

Continued on page 2

REGISTERED PROFESSIONAL ENGINEER
93437PE
OREGON
MARCH 13, 2018
ANDREW JOHNSON

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	JBG	Jack-Closed Girder	1	1	R73430727
					Job Reference (optional)

NOTES-

17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 177 lb down and 43 lb up at 2-0-0, and 290 lb down and 58 lb up at 4-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
18) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-C=-62, C-H=-62, I-K=-20
   Concentrated Loads (lb)
   Vert: A=-59 T=-177(B) U=-290(B)

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430728
22010709-A	JD01	Jack-Open	2	1	Job Reference (optional)	

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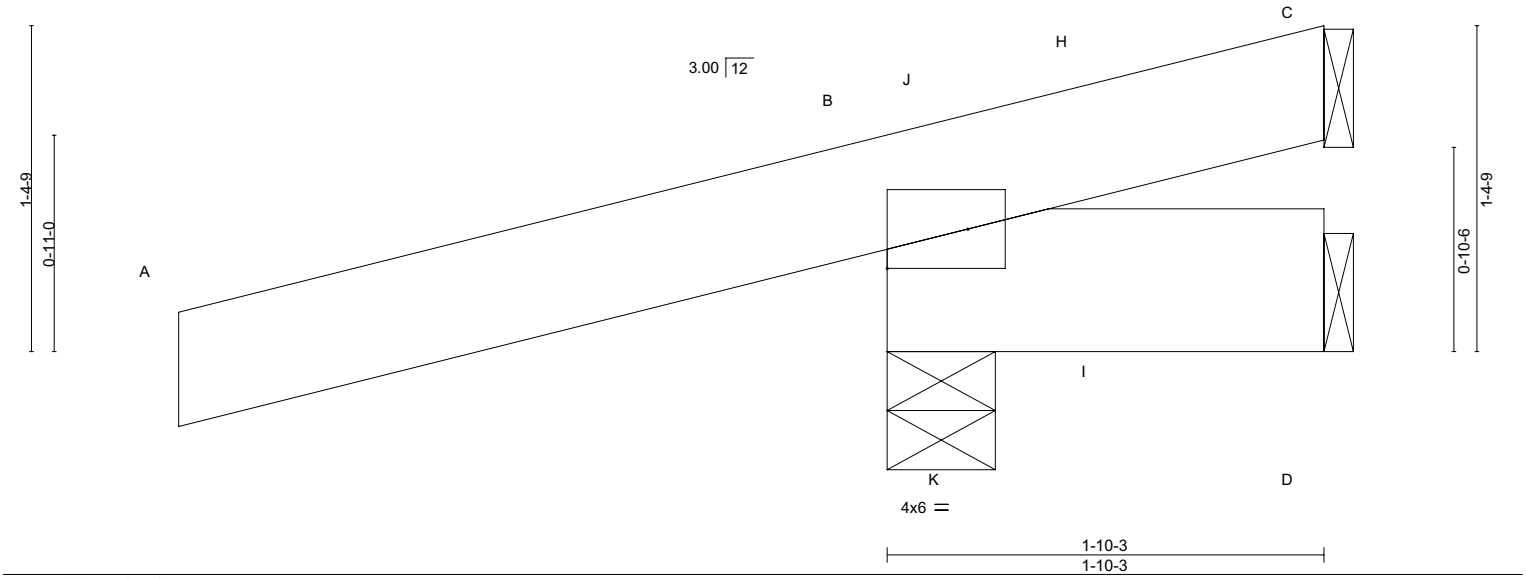

Plate Offsets (X,Y)-- [B:Edge,0-2-0]

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0		Plate Grip DOL	1.15	TC	0.24	Vert(LL)	0.00	G	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0		Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	G	>999	180		
TCDL	10.0		Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	B	n/a	n/a		
BCLL	0.0	*	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	-0.00	G	>999	360	Weight: 16 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x8 DF SS

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-3 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=57(LC 10)
Max Uplift C=-68(LC 18), B=-257(LC 10), D=-148(LC 18)
Max Grav C=252(LC 37), B=599(LC 18), D=242(LC 42)

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

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C.
11) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) D and B. This connection is for uplift only and does not consider lateral forces.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	JD02	Jack-Open	2	1	R73430729

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:38:23 2022 Page 1
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3-0-0
3-10-3
3-10-3

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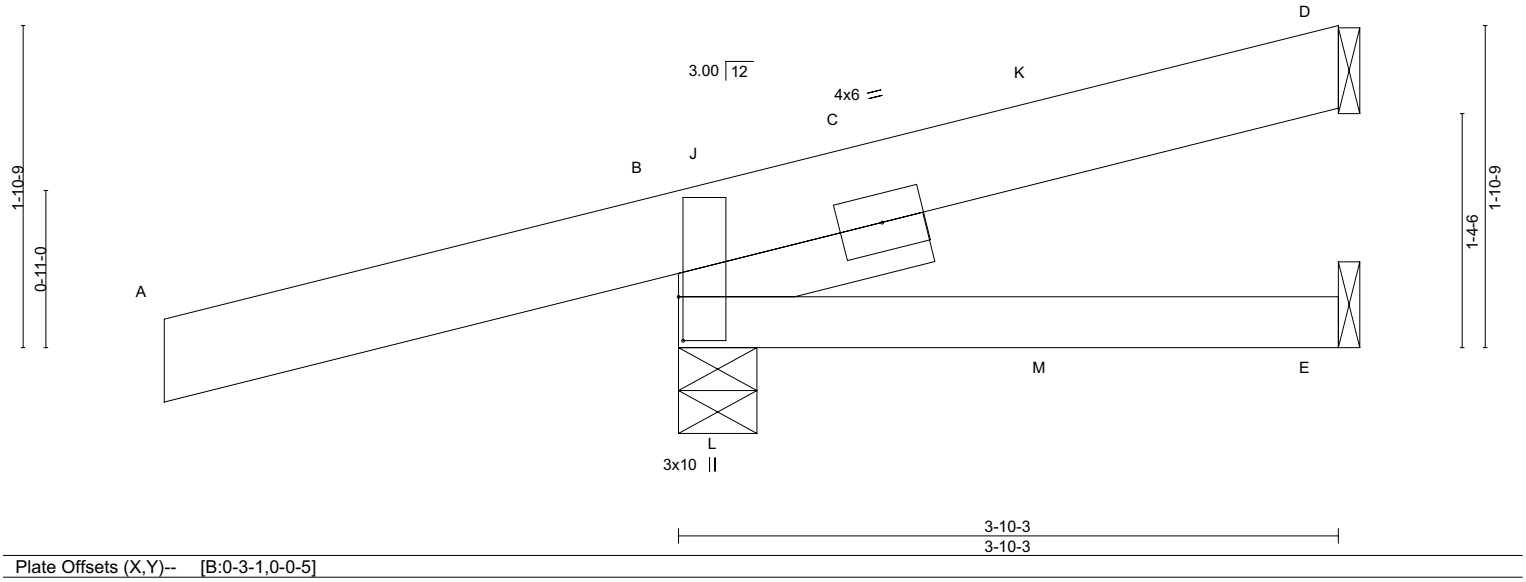

3-10-3
3-10-3

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

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0		Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.02	E-H	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0		Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.03	E-H	>999	180		
TCDL	10.0		Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	B	n/a	n/a		
BCLL	0.0	*	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	-0.00	E-H	>999	360	Weight: 23 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
SLIDER Left 2x4 DF Stud/Std -G- 1-6-0

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

REACTIONS. (size) D=Mechanical, B=0-5-8, E=Mechanical
Max Horz B=75(LC 10)
Max Uplift D=-53(LC 18), B=-210(LC 10)
Max Grav D=280(LC 37), B=569(LC 19), E=278(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-292/415

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D.
11) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) E and B. This connection is for uplift only and does not consider lateral forces.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	JD03	Jack-Open	1	1	R73430730

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:38:24 2022 Page 1
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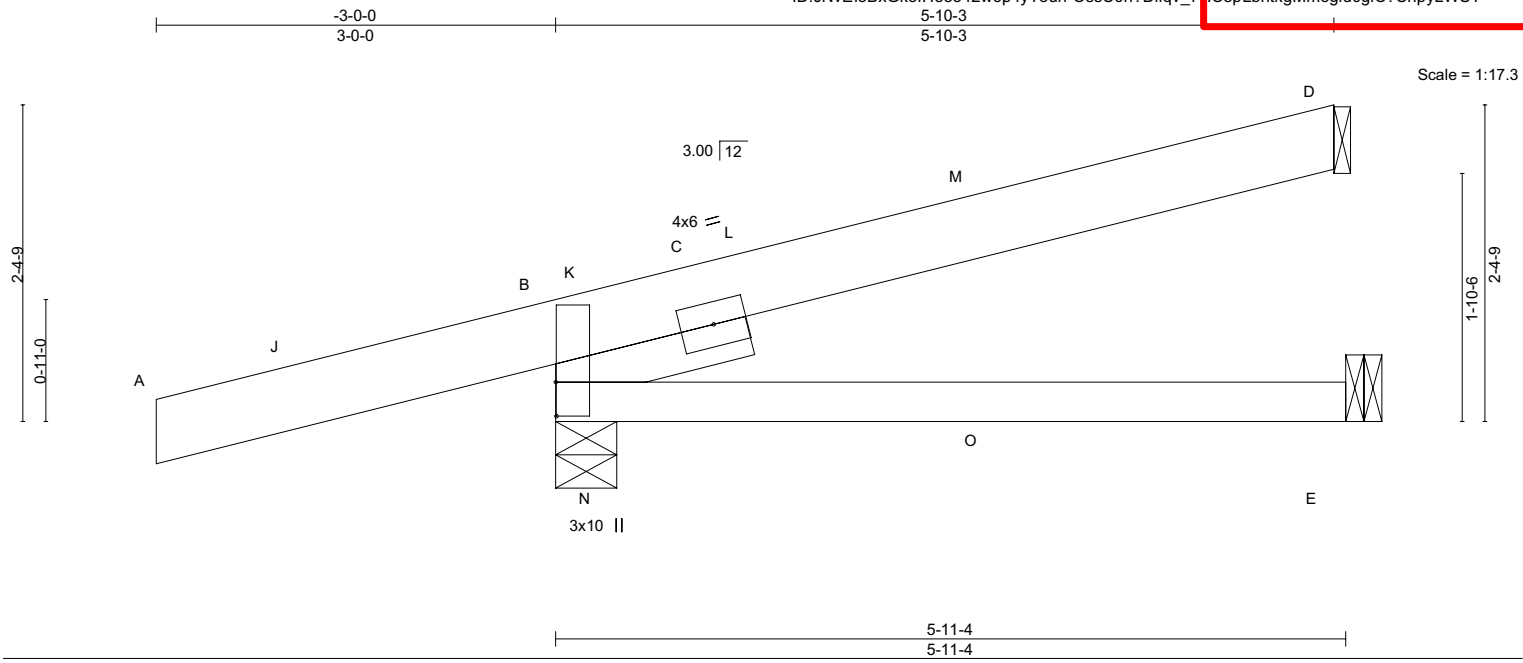

Plate Offsets (X,Y)-- [B:0-3-1,0-0-1]

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0		Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.08	E-H	>839	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0		Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.13	E-H	>532	180		
TCDL	10.0		Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	B	n/a	n/a		
BCLL	0.0	*	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	-0.01	E-H	>999	360	Weight: 30 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
SLIDER Left 2x4 DF Stud/Std -G- 1-6-0

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

REACTIONS. (size) D=Mechanical, B=0-5-8, E=Mechanical
Max Horz B=93(LC 10)
Max Uplift D=-50(LC 10), B=-206(LC 10)
Max Grav D=310(LC 37), B=599(LC 19), E=297(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-345/386

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -3-0-0 to 0-0-0, Interior(1) 0-0-0 to 1-6-8, Exterior(2R) 1-6-8 to 5-9-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Refer to girder(s) for truss to truss connections.
10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) D and B. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	JDG	FLAT	1	2	R73430731

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:38:26 2022 Page 1
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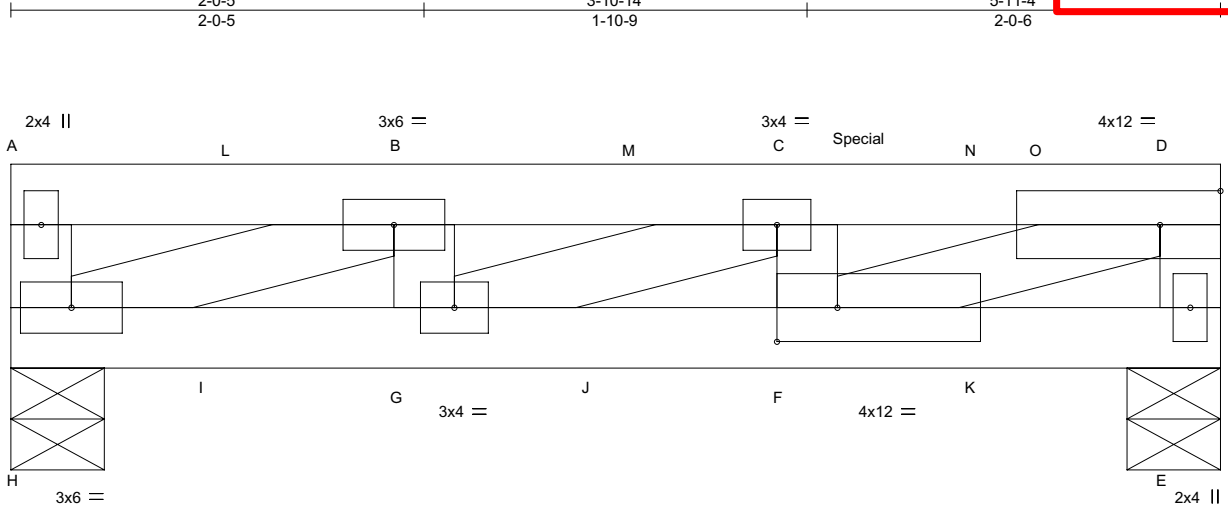

Plate Offsets (X,Y)-- [F:0-3-9,0-2-0]

LOADING (psf)		SPACING-	1-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.03	F-G	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.08	F-G	>841	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.01	E	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.02	F-G	>999	360	Weight: 51 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 DF No.1&Btr G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) E=0-5-8, H=0-5-8
Max Horz H=-13(LC 40)
Max Uplift E=-386(LC 7), H=-456(LC 6)
Max Grav E=2501(LC 2), H=2648(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-H=-826/154, B-C=-4531/764, C-D=-4034/646, D-E=-2406/379
BOT CHORD G-H=-770/4531, F-G=-649/4034
WEBS B-G=-361/106, B-H=-4838/817, C-G=-132/625, C-F=-1558/257, D-F=-690/4307

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 0-2-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 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) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
4) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
5) Provide adequate drainage to prevent water ponding.
6) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) E=386, H=456.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2189 lb down and 408 lb up at 1-2-6, and 1436 lb down and 224 lb up at 3-2-0, and 1443 lb down and 222 lb up at 5-2-0 on top chord. The design/selection of

Continued on page 2

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430731
22010709-A	JDG	FLAT	1	2	Job Reference (optional)	

NOTES-

14) Special hanger(s) or other connection device(s) shall be provided at 4-2-0 from the left end sufficient to connect trusses to front face of top chord, skewed 0.0 deg. to the right, sloping 0.0 deg down.. The design/selection of such special 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: E-H=-10, A-D=-31
   Concentrated Loads (lb)
   Vert: L=-2189 M=-1305(F) O=-1311(F)

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430732
22010709-A	JE03	Jack-Open	2	1	Job Reference (optional)	

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:38:27 2022 Page 1
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-3-0-0 5-10-3
3-0-0 5-10-3

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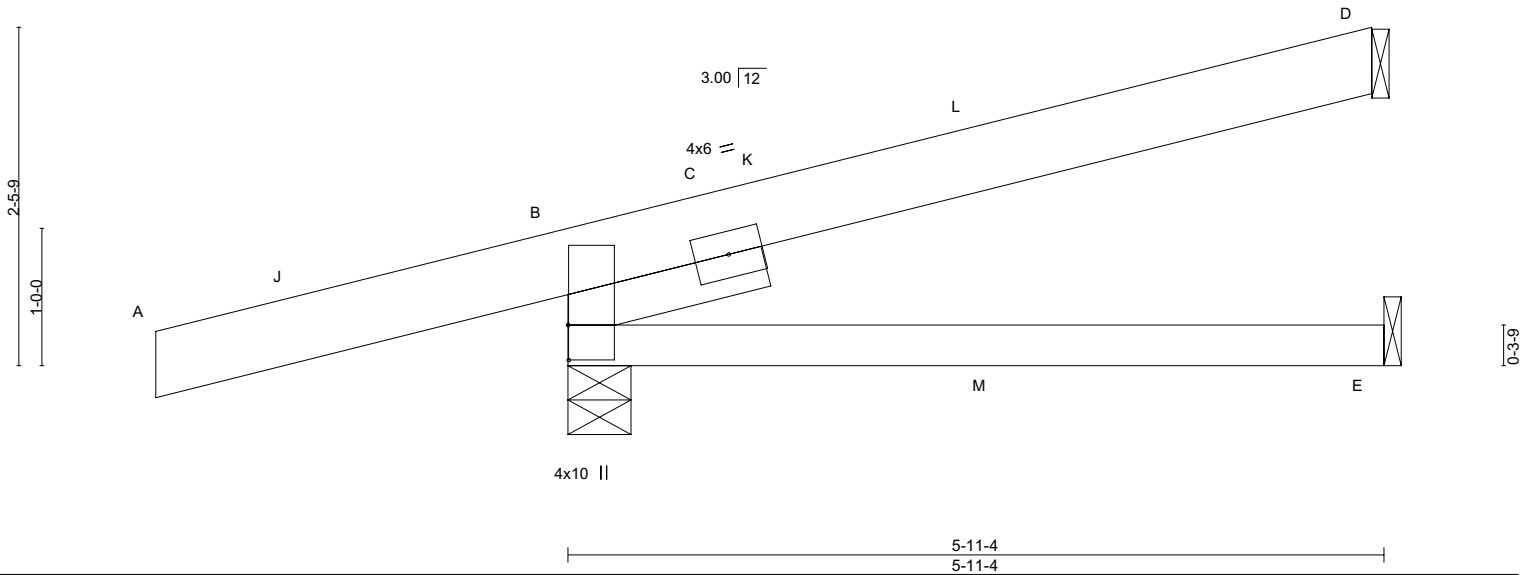


5-11-4
5-11-4

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.10	E-H	>734	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.15	E-H	>462	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	B	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	-0.01	E-H	>999	360	Weight: 30 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
SLIDER Left 2x4 DF Stud/Std -G- 1-6-0

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

REACTIONS. (size) D=Mechanical, B=0-5-8, E=Mechanical
Max Horz B=93(LC 10)
Max Uplift D=-52(LC 10), B=-204(LC 10)
Max Grav D=308(LC 37), B=600(LC 19), E=299(LC 42)

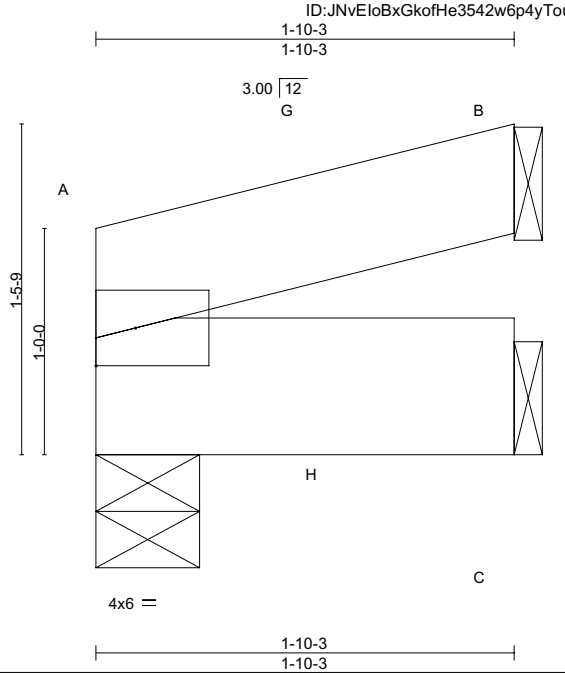
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-397/375

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -3-0-0 to 0-0-0, Interior(1) 0-0-0 to 1-6-8, Exterior(2R) 1-6-8 to 5-9-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) B=204.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	JF01	Jack-Open	1	1	R73430733
					Job Reference (optional)



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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	-0.00	F	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	F	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	B	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.00	F	>999	360	Weight: 10 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x8 DF SS

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) A=0-5-8, B=Mechanical, C=Mechanical
Max Horz A=17(LC 10)
Max Uplift A=-9(LC 10), B=-23(LC 10)
Max Grav A=290(LC 32), B=269(LC 36), C=274(LC 41)

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

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B.
10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) A and C. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	JF02	Jack-Open	1	1	R73430734
					Job Reference (optional)

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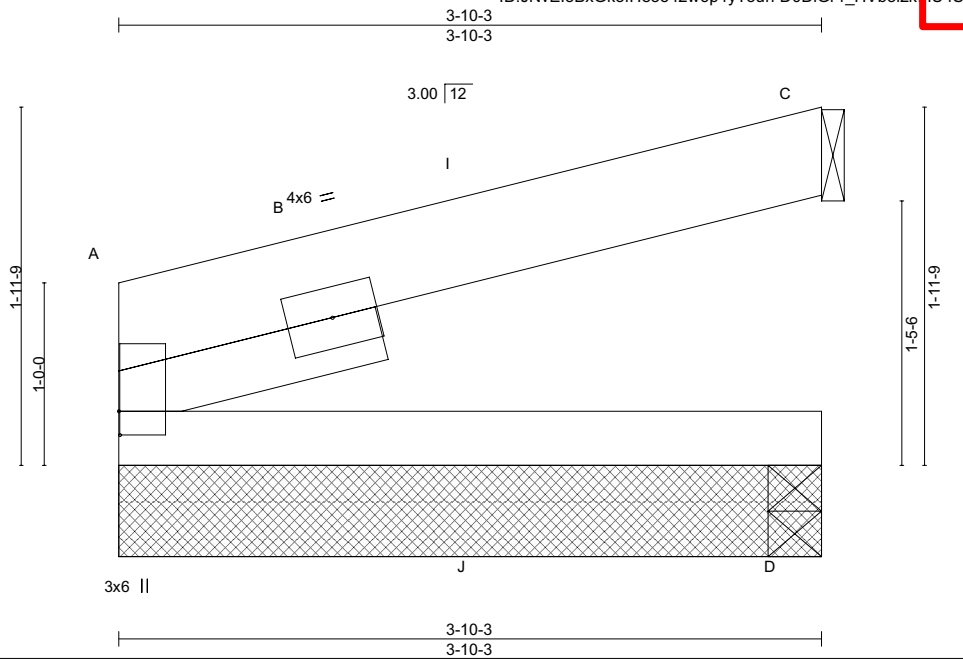

Plate Offsets (X,Y)-- [A:0-1-9,0-0-1]

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0		Plate Grip DOL	1.15	TC	0.13	Vert(LL)	-0.02	D-G	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0		Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.03	D-G	>999	180		
TCDL	10.0		Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	A	n/a	n/a		
BCLL	0.0	*	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.00	D-G	>999	360	Weight: 16 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
SLIDER Left 2x4 DF Stud/Std -G- 1-6-0

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

REACTIONS. (size) A=3-10-3, C=Mechanical, D=0-3-8
Max Horz A=35(LC 10)
Max Uplift A=-21(LC 10), C=-54(LC 10)
Max Grav A=328(LC 37), C=297(LC 36), D=284(LC 41)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-C=-270/40

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) A, C.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	JF03	Jack-Open	1	1	R73430735

Job Reference (optional)

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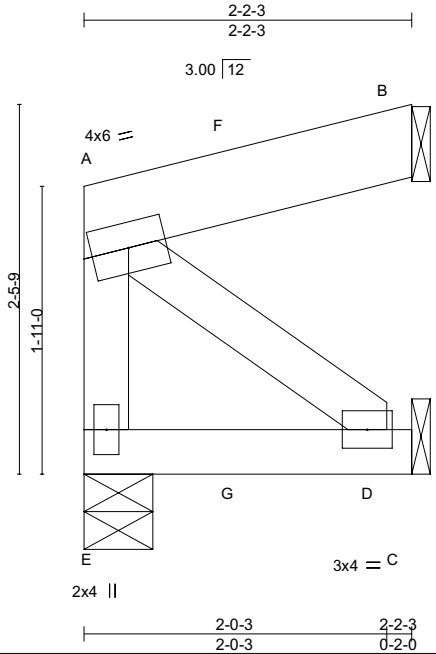

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	-0.01	D-E	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.01	D-E	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	B	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.00	D	****	360	Weight: 13 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) E=0-5-8, B=Mechanical, D=Mechanical
Max Horz E=58(LC 14)
Max Uplift E=-11(LC 10), B=-30(LC 10), D=-18(LC 14)
Max Grav E=291(LC 32), B=273(LC 34), D=275(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-E=-273/22

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
8) Refer to girder(s) for truss to truss connections.
9) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) E, B, and D. This connection is for uplift only and does not consider lateral forces.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	JG01	Jack-Open	3	1	R73430736
					Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:38:32 2022 Page 1
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3-0-0
1-10-3
1-10-3

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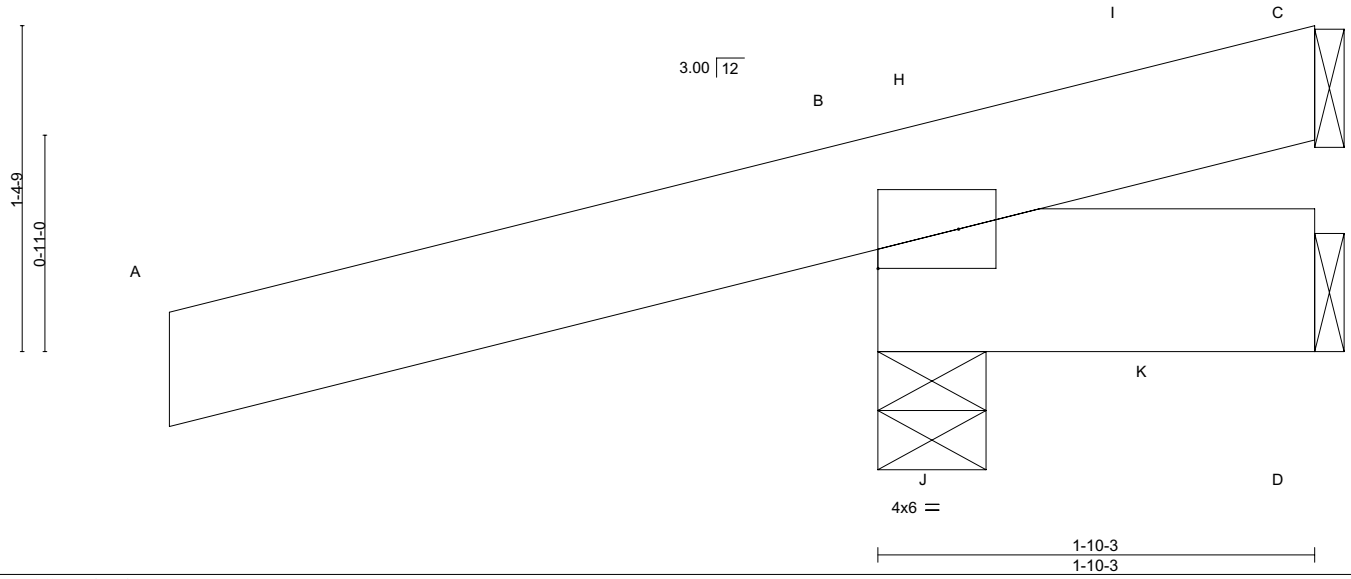


1-10-3
1-10-3

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

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0		Plate Grip DOL	1.15	TC	0.24	Vert(LL)	0.00	G	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0		Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	G	>999	180		
TCDL	10.0		Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	B	n/a	n/a		
BCLL	0.0	*	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	-0.00	G	>999	360	Weight: 16 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x8 DF SS

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-3 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=57(LC 10)
Max Uplift C=-68(LC 18), B=-257(LC 10), D=-148(LC 18)
Max Grav C=252(LC 37), B=599(LC 18), D=242(LC 42)

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

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C.
11) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) D and B. This connection is for uplift only and does not consider lateral forces.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

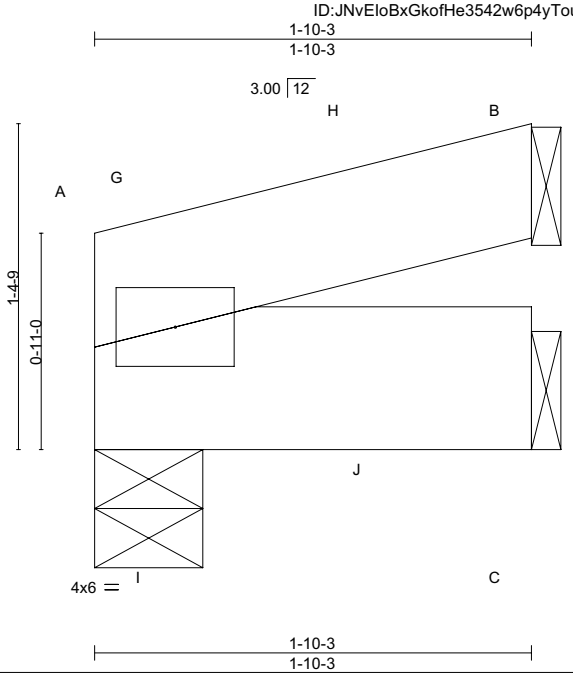
EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	JG01A	Jack-Open	1	1	R73430737

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:33:33 2022 Page 1
ID:JNvEloBxGkofHe3542w6p4yTouh-dbutus6saQzdZWTAC?iencG2Oy9MhE?q5hTboyLWSK



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	-0.00	F	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	F	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	A	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.00	F	>999	360	Weight: 10 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x8 DF SS

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) A=0-5-8, B=Mechanical, C=Mechanical
Max Horz A=17(LC 10)
Max Uplift A=-9(LC 10), B=-19(LC 10), C=-1(LC 10)
Max Grav A=290(LC 34), B=268(LC 36), C=275(LC 41)

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

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) B.
10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) A and C. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	JG02	Jack-Open	3	1	R73430738
					Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:38:35 2022 Page 1
ID:JNvEloBxGkofHe3542w6p4yTouh-a_0eJY8662DLoqdXHd2AjChZMCbTqbkIHPAZghyLWSI

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3-0-0
3-10-3
3-10-3

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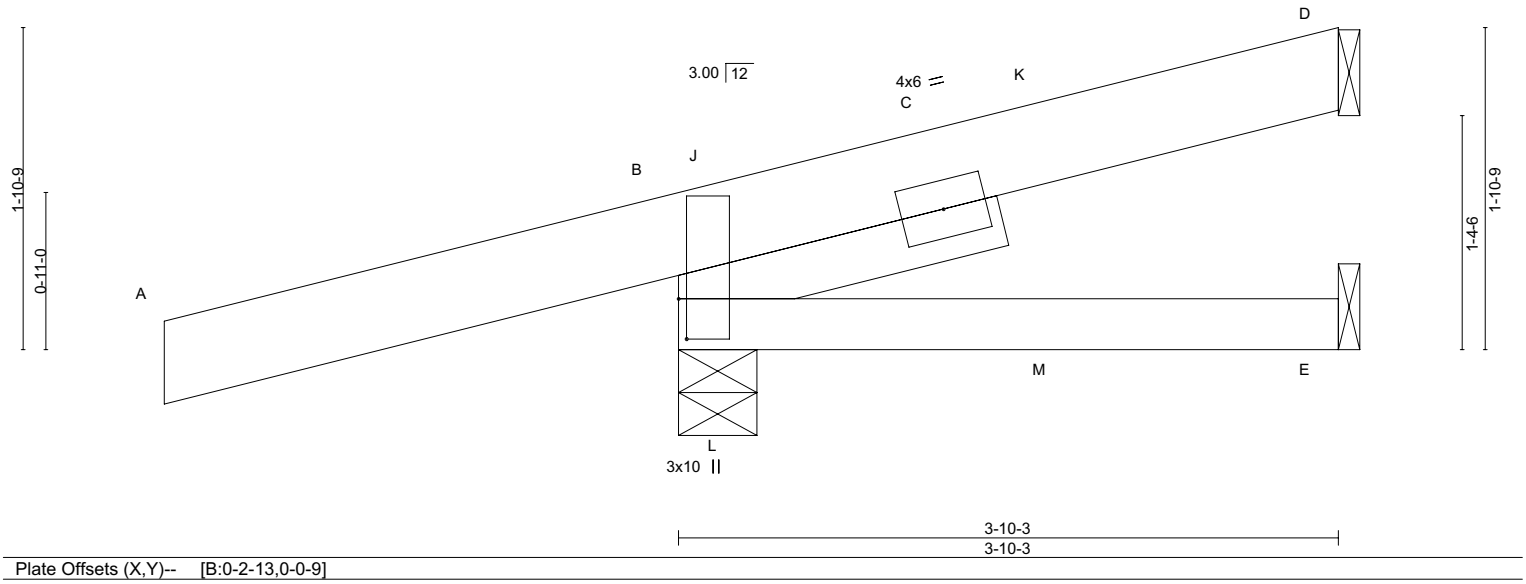

3-10-3
3-10-3

Plate Offsets (X,Y)-- [B:0-2-13,0-0-9]

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0		Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.02	E-H	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0		Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.03	E-H	>999	180		
TCDL	10.0		Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	B	n/a	n/a		
BCLL	0.0	*	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	-0.00	E-H	>999	360	Weight: 24 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
SLIDER Left 2x4 DF Stud/Std -G- 1-11-5

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

REACTIONS. (size) D=Mechanical, B=0-5-8, E=Mechanical
Max Horz B=75(LC 10)
Max Uplift D=-55(LC 18), B=-210(LC 10)
Max Grav D=280(LC 37), B=569(LC 19), E=278(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-298/450

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) D except (jt=lb) B=210.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	JG02A	Jack-Open	1	1	R73430739
					Job Reference (optional)

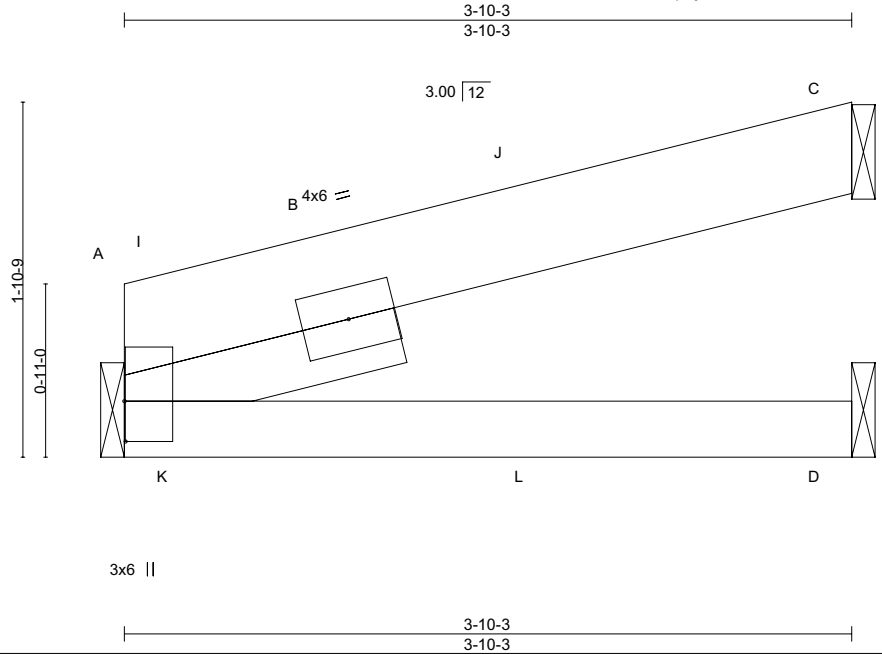

Plate Offsets (X,Y)-- [A:0-2-9,0-0-1]

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0		Plate Grip DOL	1.15	TC	0.12	Vert(LL)	-0.02	D-G	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0		Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.03	D-G	>999	180		
TCDL	10.0		Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	A	n/a	n/a		
BCLL	0.0	*	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.00	D-G	>999	360	Weight: 16 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
SLIDER Left 2x4 DF Stud/Std -G- 1-6-0

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

REACTIONS. (size) A=Mechanical, C=Mechanical, D=Mechanical
Max Horz A=35(LC 10)
Max Uplift A=-22(LC 10), C=-51(LC 10)
Max Grav A=329(LC 34), C=299(LC 36), D=283(LC 41)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-C=-269/43

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) C.
10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) A and D. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	JG03	Jack-Open	2	1	R73430740

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:38:38 2022 Page 1
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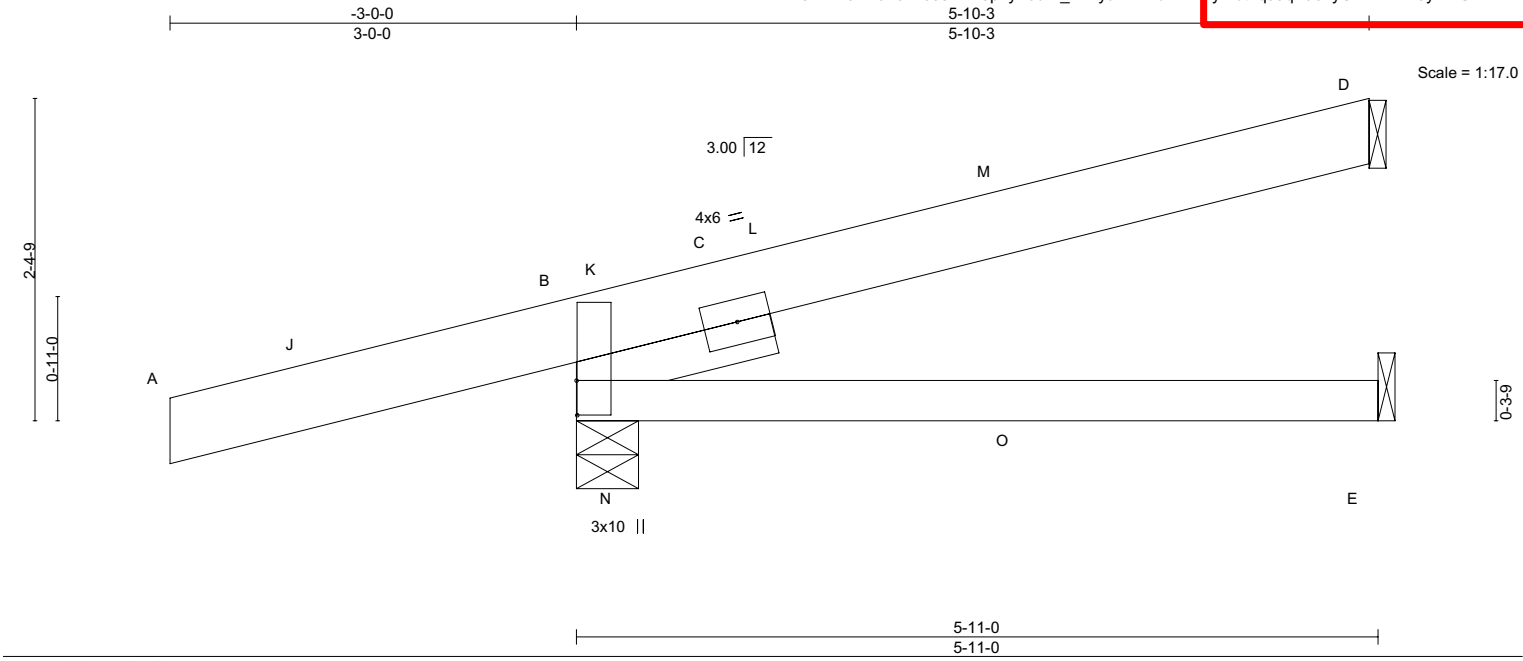

Plate Offsets (X,Y)-- [B:0-3-1,0-0-1]

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0		Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.09	E-H	>825	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0		Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.13	E-H	>521	180		
TCDL	10.0		Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	B	n/a	n/a		
BCLL	0.0	*	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	-0.01	E-H	>999	360	Weight: 30 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
SLIDER Left 2x4 DF Stud/Std -G- 1-6-0

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

REACTIONS. (size) D=Mechanical, B=0-5-8, E=Mechanical
Max Horz B=93(LC 10)
Max Uplift D=-50(LC 10), B=-206(LC 10)
Max Grav D=310(LC 37), B=599(LC 19), E=297(LC 42)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-350/385

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -3-0-0 to 0-0-0, Interior(1) 0-0-0 to 1-6-8, Exterior(2R) 1-6-8 to 5-9-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Refer to girder(s) for truss to truss connections.
10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) D and B. This connection is for uplift only and does not consider lateral forces.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	JG04	Jack-Closed	1	1	R73430741

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:38:40 2022 Page 1
ID:JNvEloBxGkofHe3542w6p4yTouh-wxpXMGCFxareubVH4AdLQFOQaDluVsz1RhuKLuyLWSD

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2-0-0 3-11-0 11-5-15

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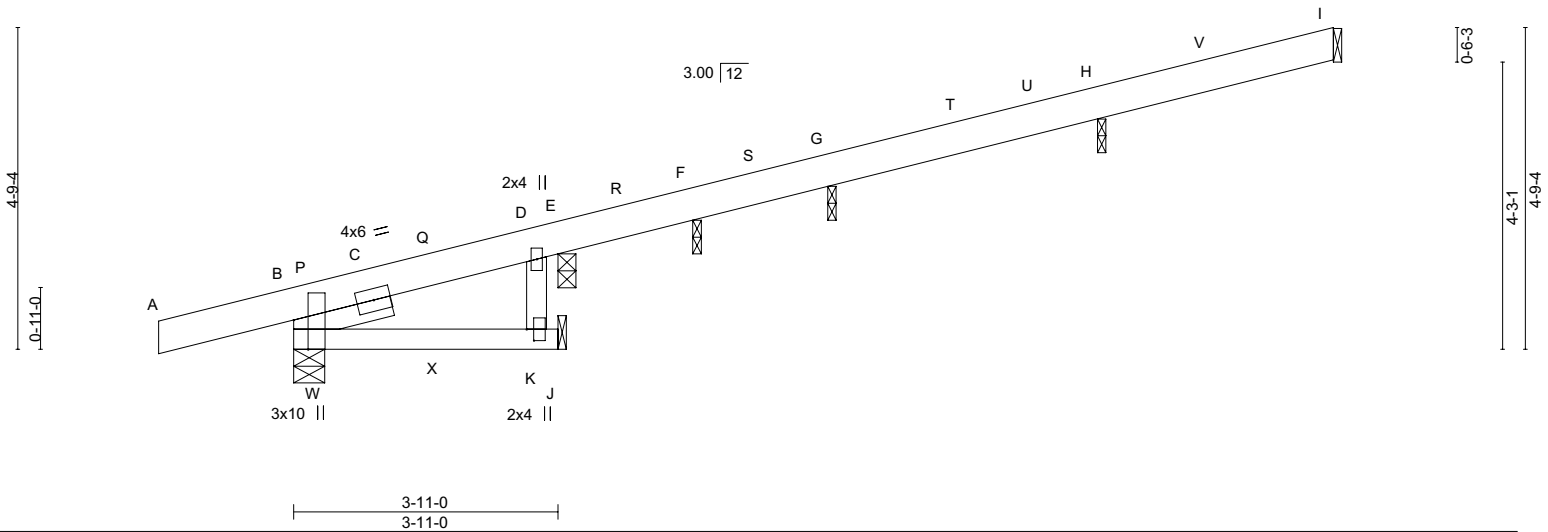

Plate Offsets (X,Y)-- [B:0-5-3,Edge], [K:0-2-0,0-1-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	-0.02	K-N	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.02	K-N	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	B	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	-0.00	N	>999	360	Weight: 48 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G
SLIDER Left 2x4 DF Stud/Std -G- 1-6-0

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

REACTIONS. All bearings 0-1-8 except (jt=length) I=Mechanical, K=Mechanical, B=0-5-8, E=0-3-3.
(lb) - Max Horz B=138(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) I, K, B, F, G except E=-249(LC 34), H=-113(LC 10)
Max Grav All reactions 250 lb or less at joint(s) E except I=287(LC 47), K=529(LC 34), B=370(LC 51), F=292(LC 44), G=313(LC 45), H=327(LC 46)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD D-K=-488/157

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 11-1-4, Exterior(2R) 11-1-4 to 15-4-3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) F, G, H.
11) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) I, K, B, E, F, G, and H. This connection is for uplift only and does not consider lateral forces.
12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) E, F, G, H.
13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	JGG	Jack-Closed Girder	1	1	R73430742
					Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:38:42 2022 Page 1
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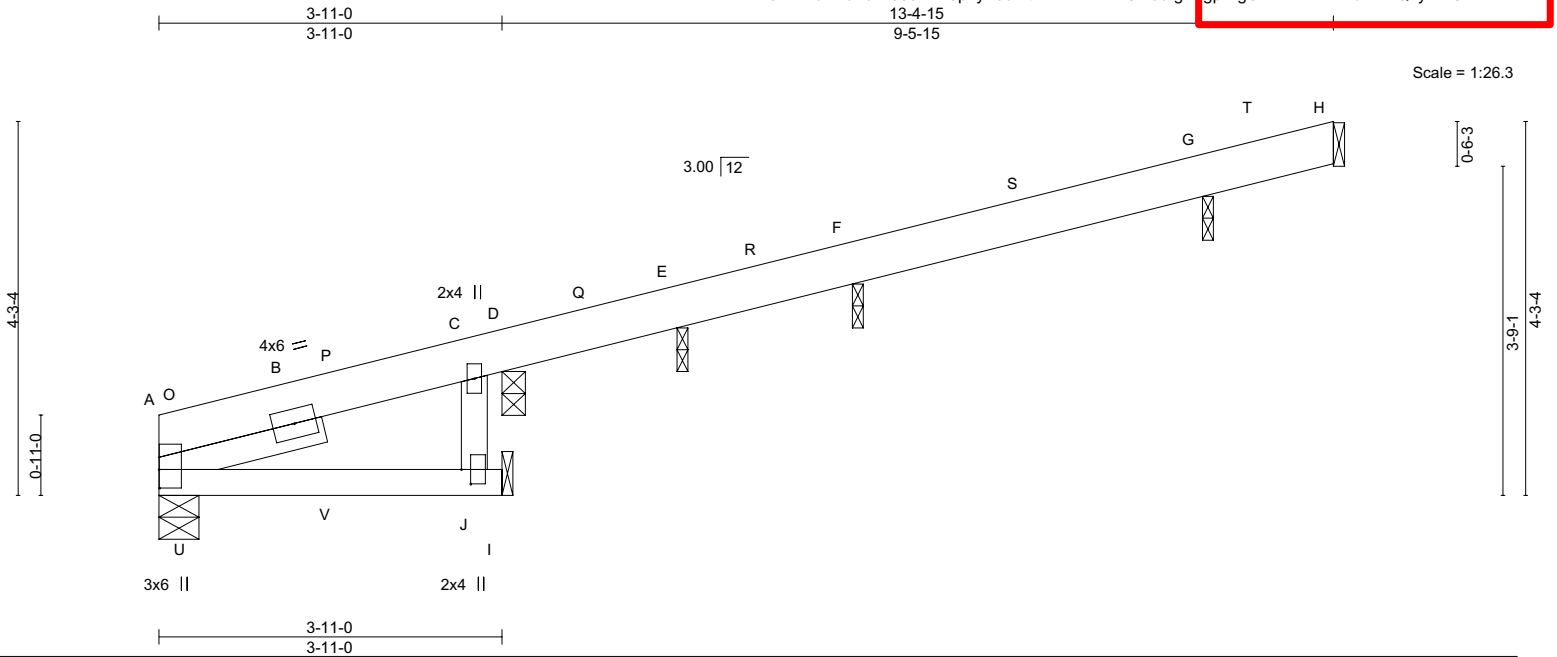

Plate Offsets (X,Y)-- [A:0-2-9,0-0-1], [J:0-2-0,0-1-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.02	J-M	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.03	J-M	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	A	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.01	J-M	>999	360	Weight: 40 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G
SLIDER Left 2x4 DF Stud/Std -G- 1-11-5

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

REACTIONS. All bearings 0-1-8 except (jt=length) A=0-5-8, H=Mechanical, J=Mechanical, D=0-3-3.
(lb) - Max Horz A=105(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) H, E, F, G except J=-171(LC 8), D=-301(LC 32)
Max Grav All reactions 250 lb or less at joint(s) D except A=371(LC 49), H=267(LC 45), J=631(LC 32), E=292(LC 42), F=313(LC 43), G=307(LC 44)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD A-C=-326/58, C-J=-571/175

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) E, F, G.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) H, E, F, G except (jt=lb) J=171, D=301.
11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) D, E, F, G.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 82 lb down and 18 lb up at 0-0-0 on top chord, and 177 lb down and 42 lb up at 2-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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LOAD CASE(S) Standard

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	JGG	Jack-Closed Girder	1	1	R73430742
					Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-C=-62, C-H=-62, I-K=-20
   Concentrated Loads (lb)
   Vert: A=-65 V=-177(F)

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	RA	DIAGONAL HIP GIRDER	2	1	R73430745

Job Reference (optional)

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ID:JNvEIoBxGkofHe3542w6p4yTouh-DHlAqfHeHkkeEgXd_9G_DkBaO2cGex032H4C5_yLWS6

-4-2-15	3-9-9	7-3-10	11-1-3	11-8-7	14-1-10	16-11-9	19-9-8	21-3-14
4-2-15	3-9-9	3-6-0	3-9-9	0-7-4	2-5-3	2-9-15	2-9-15	1-6-6

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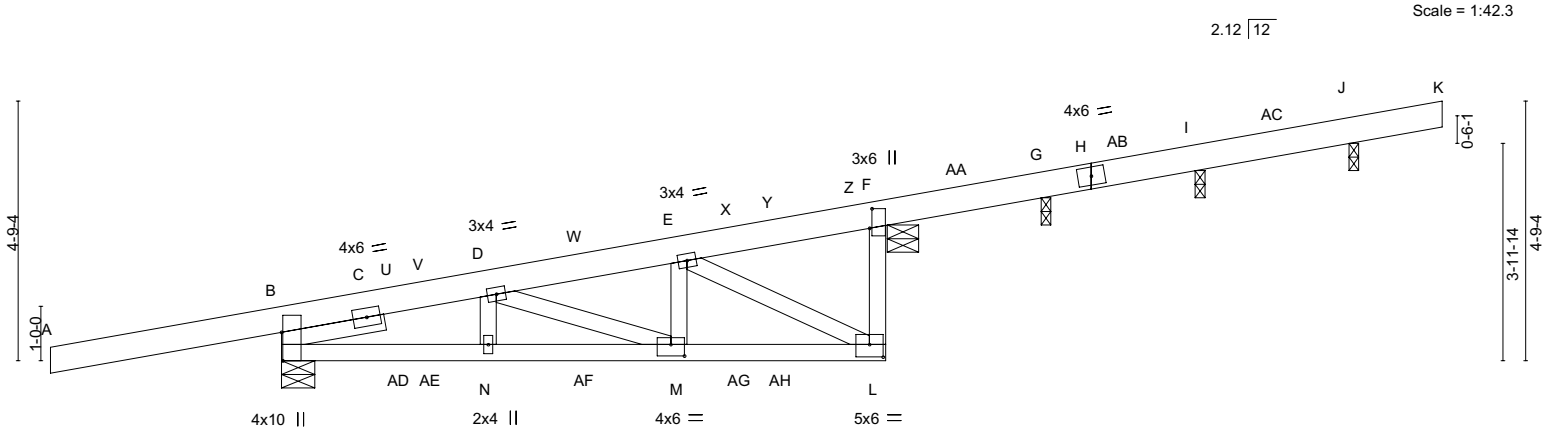

3-9-9	7-3-10	11-1-3
3-9-9	3-6-0	3-9-9

Plate Offsets (X,Y)-- [B:0-6-5,Edge], [F:0-4-5,0-0-9], [L:0-3-0,0-2-12], [M:0-3-0,0-2-8]

LOADING (psf)		SPACING-	1-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.04	L-M	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.11	L-M	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.36	Horz(CT)	-0.01	G	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.03	L-M	>999	360	Weight: 91 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G
SLIDER Left 2x4 DF Stud/Std -G- 1-11-6

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. All bearings 0-2-2 except (jt=length) F=0-6-14, B=0-7-6.
(lb) - Max Horz B=135(LC 72)
Max Uplift All uplift 100 lb or less at joint(s) G, I except F=-151(LC 8), B=-169(LC 8), J=-117(LC 8)
Max Grav All reactions 250 lb or less at joint(s) except F=1038(LC 17), B=558(LC 81), G=266(LC 45), I=288(LC 46), J=335(LC 47)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-791/510, D-E=-1042/116, F-L=-136/893
BOT CHORD B-N=-167/705, M-N=-167/705, L-M=-115/993
WEBS D-N=-82/276, D-M=-305/655, E-M=-111/744, E-L=-1120/117

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) G, I, J.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) G, I except (jt=lb) F=151, B=169, J=117.
11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) F, G, I, J.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
14) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430745
22010709-A	RA	DIAGONAL HIP GIRDER	2	1	Job Reference (optional)	

NOTES-

15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 176 lb down and 91 lb up at -0-0-7, 63 lb down and 77 lb up at 2-8-7, 63 lb down and 77 lb up at 2-8-7, 68 lb down and 32 lb up at 5-6-6, 68 lb down and 32 lb up at 5-6-6, 183 lb down and 67 lb up at 8-4-5, 183 lb down and 67 lb up at 8-4-5, 52 lb down and 34 lb up at 14-0-3, 139 lb down and 72 lb up at 16-10-2, and 55 lb down and 33 lb up at 19-8-1, and 117 lb down and 50 lb up at 21-3-14 on top chord, and 62 lb down and 95 lb up at 2-8-7, 62 lb down and 95 lb up at 2-8-7, 28 lb down and 3 lb up at 5-6-6, 28 lb down and 3 lb up at 5-6-6, and 62 lb down at 8-4-5 , and 62 lb down at 8-4-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-B=-31, B-F=31(F=62), F-K=-31
   Concentrated Loads (lb)
   Vert: K=-107(F) B=-135 G=-31(F) I=-119(F) J=-34(F) V=42(F=21, B=21) W=-68(F=-34, B=-34) X=-324(F=-162, B=-162) AE=40(F=20, B=20) AF=-24(F=-12, B=-12) AG=-70(F=-35, B=-35)
   Trapezoidal Loads (plf)
   Vert: O=10(F=10, B=10)-to-L=-216(F=-103, B=-103)

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	RB01	Diagonal Hip Girder	1	1	R73430746

Job Reference (optional)

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ID:JNvEIoBxGkofHe3542w6p4yTouh-63_hg0K9LyE4jIrPD_KwNaMBzfzjanpfyv2QEIyLWS2

-4-2-15	4-1-10	8-3-4	8-5-12	11-6-1	14-4-0	17-1-15	19-11-14	22-9-13	23-3-15
4-2-15	4-1-10	4-1-10	0-2-8	3-0-5	2-9-15	2-9-15	2-9-15	2-9-15	0-6-2

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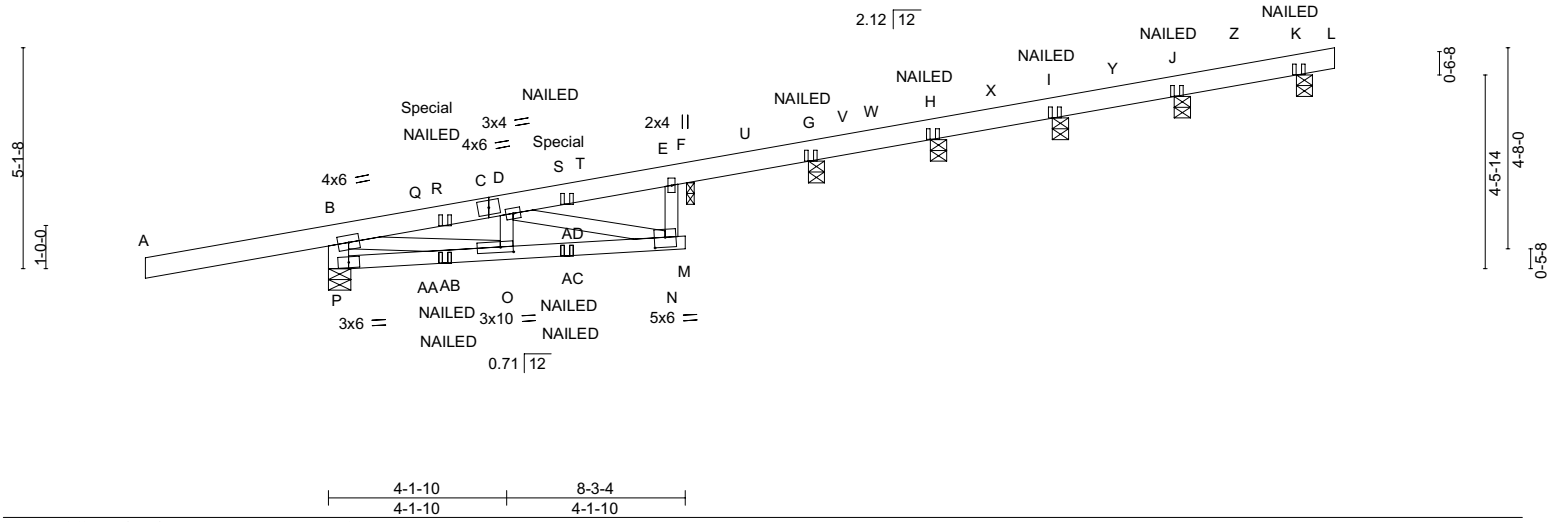

4-1-10	8-3-4
4-1-10	4-1-10

Plate Offsets (X,Y)-- [N:0-3-0,0-2-12], [O:0-3-9,0-1-8]

LOADING (psf)			SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0		Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.05	N-O	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0		Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.58	A	>92	90		
TCDL	10.0		Rep Stress Incr	NO	WB	0.25	Horz(CT)	-0.00	K	n/a	n/a		
BCLL	0.0	*	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	-0.02	N-O	>999	360	Weight: 86 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G *Except*
B-P: 2x6 DF SS G

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. All bearings 0-4-8 except (jt=length) P=0-6-4, F=0-2-2.
(lb) - Max Horz P=157(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) K except P=-347(LC 8), F=-109(LC 8), G=-106(LC 8), H=-104(LC 8), I=-104(LC 8), J=-101(LC 8)
Max Grav All reactions 250 lb or less at joint(s) except P=656(LC 16), F=538(LC 79), G=311(LC 43), H=310(LC 44), I=310(LC 45), J=308(LC 46), K=297(LC 47)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-P=-653/343, B-D=-732/306, E-N=-84/500
BOT CHORD N-O=-360/655
WEBS B-O=-354/786, D-O=-213/474, D-N=-660/361

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Bearing at joint(s) P considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) F.
11) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) P, F, G, H, I, J, and K. This connection is for uplift only and does not consider lateral forces.
12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) F, G, H, I, J, K.
13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R734307746
22010709-A	RB01	Diagonal Hip Girder	1	1	Job Reference (optional)	

NOTES-

15) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 132 lb down and 87 lb up at -0-0-7 on top chord. The design/selection of such connection device(s) is the responsibility of others.
17) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-B=-62, F-L=-62
   Concentrated Loads (lb)
   Vert: B=-49 G=-1(B) K=-11(B) R=78(B) S=-61(F) AC=-14(F=-7, B=-7)
   Trapezoidal Loads (plf)
   Vert: P=-0(F=10, B=10)-to-M=-169(F=-74, B=-74)

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	RB03	DIAGONAL HIP GIRDER	2	1	R73430748

Job Reference (optional)

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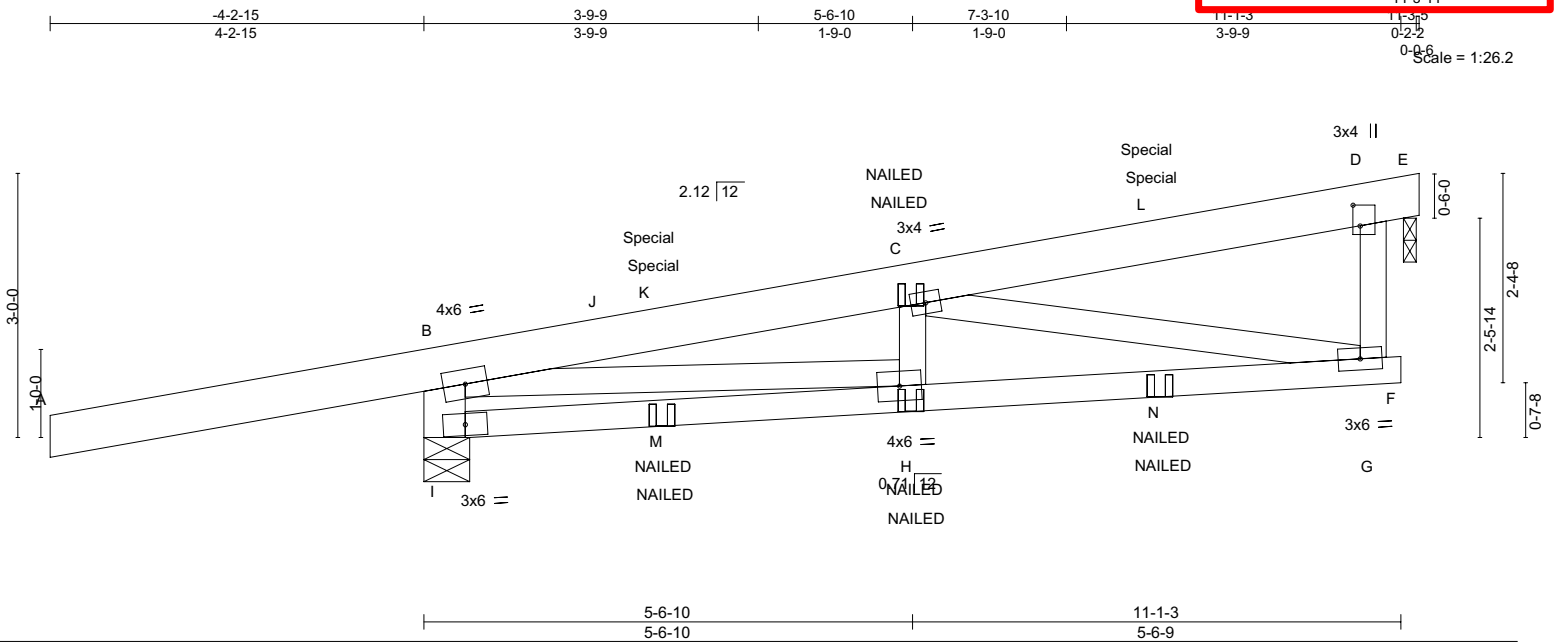

Plate Offsets (X,Y)-- [D:0-2-13,0-1-0]

LOADING (psf)		SPACING-	1-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.11	G-H	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.24	G-H	>554	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.53	Horz(CT)	-0.01	E	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P		Wind(LL)	-0.04	H	>999	360	Weight: 68 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G *Except*
B-I: 2x6 DF SS G

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) I=0-6-4, E=0-1-12
Max Horz I=57(LC 9)
Max Uplift I=-245(LC 8), E=-38(LC 8)
Max Grav I=664(LC 67), E=477(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-I=-643/237, B-C=-1124/134, D-G=0/426
BOT CHORD G-H=-134/1071
WEBS C-H=0/315, C-G=-1074/122, B-H=-118/1111

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 1.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Bearing at joint(s) I considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) E.
11) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) I and E. This connection is for uplift only and does not consider lateral forces.
12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) E.
13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
15) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	RB03	DIAGONAL HIP GIRDER	2	1	R734307748 Job Reference (optional)

NOTES-

16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 176 lb down and 91 lb up at -0-0-7, 170 lb down and 269 lb up at 2-8-7, 170 lb down and 269 lb up at 2-8-7, and 151 lb down and 54 lb up at 8-4-5, and 151 lb down and 54 lb up at 8-4-5 on top chord. The design/selection of such connection device(s) is the responsibility of others.
17) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-B=-31, B-D=-31, D-E=-31, F-I=-10
   Concentrated Loads (lb)
   Vert: B=-135 H=-43(F=-21, B=-21) K=127(F=63, B=63) L=-261(F=-130, B=-130) M=-4(F=-2, B=-2) N=-83(F=-41, B=-41)

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430749
22010709-A	RD	DIAGONAL HIP GIRDER	1	1	Job Reference (optional)	

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:38:58 2022 Page 1
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-4-2-15 | 4-3-4 | 8-6-7 | 11-3-11 | 16-11-9 | 22-7-7 | 25-3-4 | 31-3-10 | 32-0-9
4-2-15 | 4-3-4 | 4-3-3 | 2-9-4 | 5-7-14 | 5-7-14 | 2-7-13 | 6-0-6 | 0-8-15

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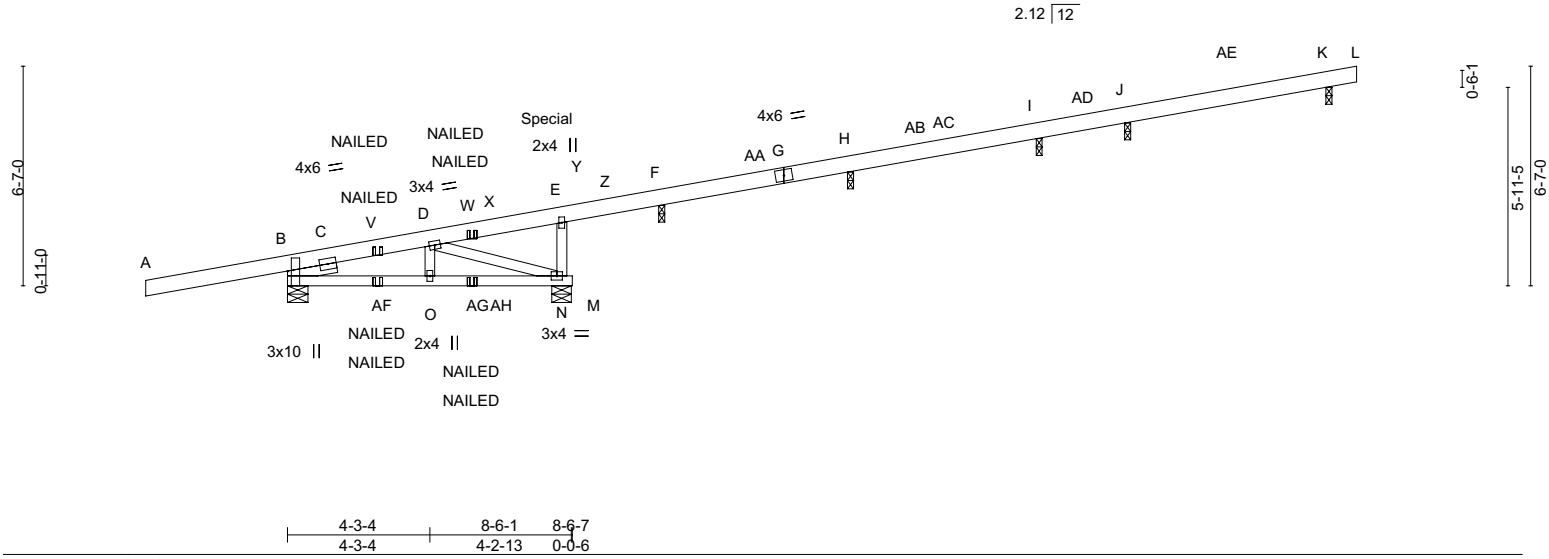

4-3-4 | 8-6-1 | 8-6-7
4-3-4 | 4-2-13 | 0-0-6

Plate Offsets (X,Y)-- [B:0-5-5,Edge]

LOADING (psf)		SPACING-	1-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.05	N-O	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.11	N-O	>937	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	-0.01	I	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.03	N-O	>999	360	Weight: 103 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G
SLIDER Left 2x4 DF Stud/Std -G- 1-6-0

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. All bearings 0-2-2 except (jt=length) B=0-7-6, N=0-7-0.
(lb) - Max Horz B=126(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) N, I, J, K except B=-145(LC 11), F=-101(LC 71), H=-104(LC 8)
Max Grav All reactions 250 lb or less at joint(s) except B=366(LC 31), N=594(LC 1), F=282(LC 45), H=310(LC 46), I=295(LC 47), J=296(LC 48), K=292(LC 49)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-534/531, E-N=-375/147
BOT CHORD B-O=-243/478, N-O=-243/478
WEBS D-O=-131/520, D-N=-491/256

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) F, H, I, J, K.
10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) B, N, F, H, I, J, and K. This connection is for uplift only and does not consider lateral forces.
11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) F, H, I, J, K.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
14) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2

LOAD CASE(S) Standard

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430749
22010709-A	RD	DIAGONAL HIP GIRDER	1	1	Job Reference (optional)	

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-B=-31, B-E=31(F=62), E-Y=31(F=62), L-Y=-31
   Concentrated Loads (lb)
   Vert: E=-192(F) B=-135 V=30(F=15, B=15) W=-74(F=-37, B=-37) AF=51(F=25, B=25) AG=-20(F=-10, B=-10)
   Trapezoidal Loads (plf)
   Vert: P=10(F=10, B=10)-to-M=-164(F=-77, B=-77)

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	RE	DIAGONAL HIP GIRDER	2	1	R73430750

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:39:00 2022 Page 1
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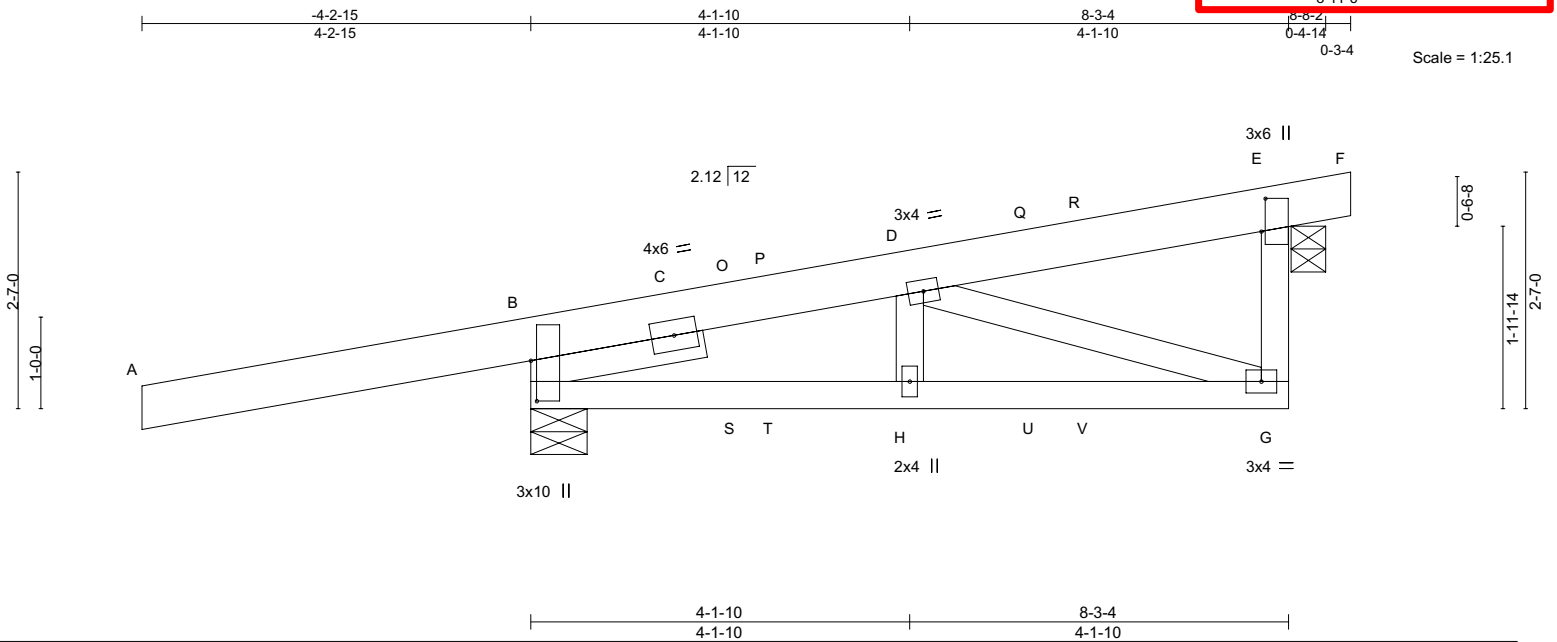

Plate Offsets (X,Y)-- [B:0-5-5,0-0-12], [E:0-4-5,0-0-9]

LOADING (psf)		SPACING-	1-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.05	G-H	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.11	G-H	>870	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.17	Horz(CT)	-0.01	E	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.03	G-H	>999	360	Weight: 52 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G
SLIDER Left 2x4 DF Stud/Std -G- 1-11-6

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) E=0-4-8, B=0-7-6
Max Horz B=96(LC 11)
Max Uplift E=-34(LC 9), B=-156(LC 8)
Max Grav E=407(LC 35), B=367(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-488/544, E-G=-52/392
BOT CHORD B-H=-217/517, G-H=-217/517
WEBS D-H=-128/537, D-G=-534/229

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) E except (jt=lb) B=156.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) E.
11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
13) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

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Continued on page 2

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

NOTES-

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 176 lb down and 91 lb up at -0-0-7, 63 lb down and 93 lb up at 2-8-7, 63 lb down and 93 lb up at 2-8-7, and 68 lb down and 32 lb up at 5-6-6, and 68 lb down and 32 lb up at 5-6-6 on top chord, and 62 lb down and 95 lb up at 2-8-7, 62 lb down and 95 lb up at 2-8-7, and 28 lb down and 3 lb up at 5-6-6, and 28 lb down and 3 lb up at 5-6-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-B=-31, B-E=31(F=62), E-F=-31
   Concentrated Loads (lb)
   Vert: B=-135 P=42(F=21, B=21) Q=-68(F=-34, B=-34) T=40(F=20, B=20) U=-24(F=-12, B=-12)
   Trapezoidal Loads (plf)
   Vert: I=10(F=10, B=10)-to-G=-159(F=-74, B=-74)

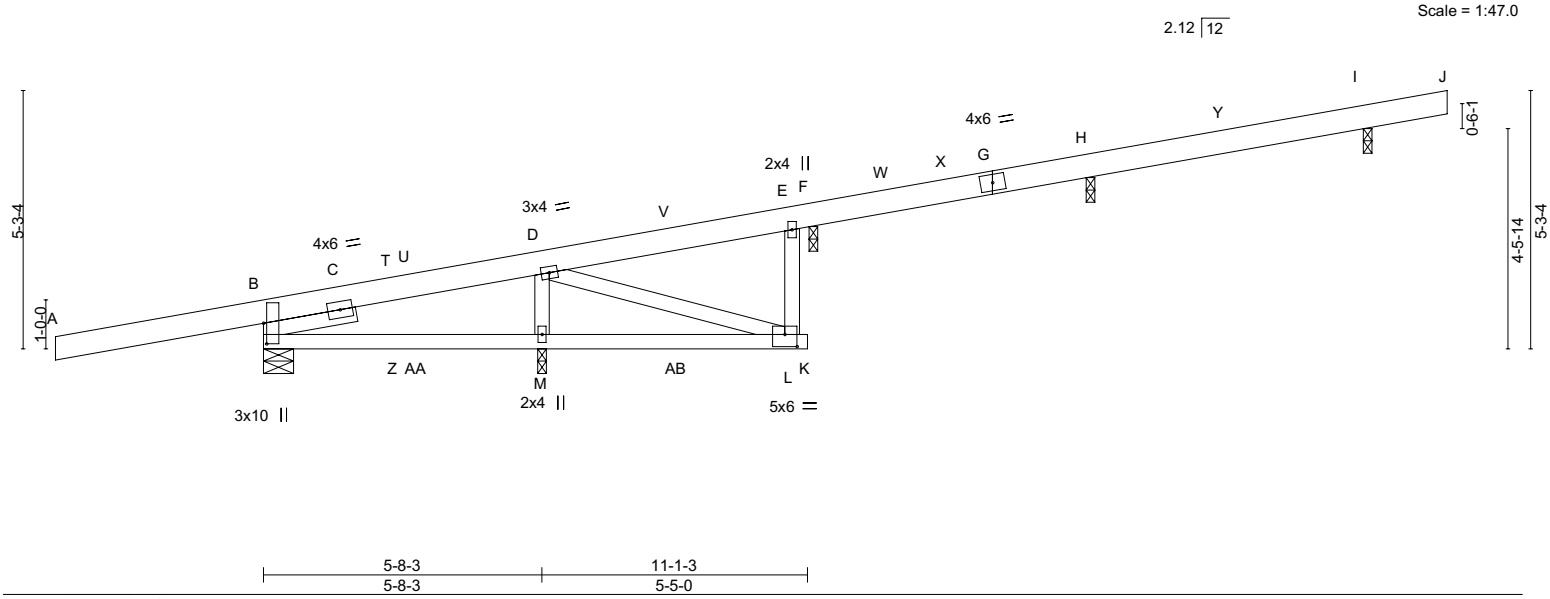
Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	RF	DIAGONAL HIP GIRDER	1	1	R73430751

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:39:03 2022 Page 1
ID:JNvEIoBxGkofHe3542w6p4yTouh-IMiDB7TgWeIN97mi[illegible]WYks6rKXU?EODnQjmy2e3yLWRs

-4-2-15 | 5-8-3 | 11-1-3 | 11-3-11 | 16-11-9 | 22-7-7 | 24-1-13
4-2-15 | 5-8-3 | 5-5-0 | 0-2-8 | 5-7-14 | 5-7-14 | 1-6-6

Scale = 1:47.0



5-8-3 | 11-1-3
5-8-3 | 5-5-0

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

LOADING (psf)		SPACING-	1-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.10	L-M	>639	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.28	L-M	>233	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.19	Horz(CT)	-0.01	B	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.10	L-M	>653	360	Weight: 93 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G
SLIDER Left 2x4 DF Stud/Std -G- 1-11-6

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. All bearings 0-2-2 except (jt=length) B=0-7-6.
(lb) - Max Horz B=108(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) I except B=-120(LC 29), F=-170(LC 9), H=-104(LC 8), M=-285(LC 8)
Max Grav All reactions 250 lb or less at joint(s) except B=310(LC 31), F=865(LC 17), H=320(LC 44), I=303(LC 45), M=1252(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-293/537, E-L=-67/596
BOT CHORD B-M=-401/197, L-M=-401/197
WEBS D-M=-491/213, D-L=-193/420

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) F, H, I, M.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) I except (jt=lb) B=120, F=170, H=104, M=285.
11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) F, H, I.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

EXPIRES: 06/30/2023
November 9,2022

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MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest	R73430751
22010709-A	RF	DIAGONAL HIP GIRDER	1	1	Job Reference (optional)	

NOTES-

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 176 lb down and 91 lb up at -0-0-7, 35 lb down and 31 lb up at 2-8-7, 63 lb down and 77 lb up at 2-8-7, 136 lb down and 69 lb up at 5-6-6, 68 lb down and 32 lb up at 5-6-6, 54 lb down and 39 lb up at 8-4-5, 183 lb down and 67 lb up at 8-4-5, 287 lb down and 101 lb up at 11-2-4, 49 lb down and 33 lb up at 14-0-3, and 55 lb down and 36 lb up at 16-10-2, and 55 lb down and 36 lb up at 19-8-1 on top chord, and 18 lb down at 2-8-7, 62 lb down and 95 lb up at 2-8-7, 28 lb down and 3 lb up at 5-6-6, 33 lb down and 31 lb up at 8-4-5, and 62 lb down at 8-4-5, and 112 lb down at 11-1-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-B=-31, F-J=-31
   Concentrated Loads (lb)
   Vert: B=-135 K=-67(F) D=-149(F=-34, B=-115) F=-266(F) H=-34(F) M=-12(F) T=7(F=21, B=-14) V=-195(F=-162, B=-33) X=-28(F) Y=-34(F) Z=2(F=20, B=-18) AB=-43(F=-35, B=-8)
   Trapezoidal Loads (plf)
   Vert: N=0(F=5, B=5)-to-K=-226(F=-108, B=-108)

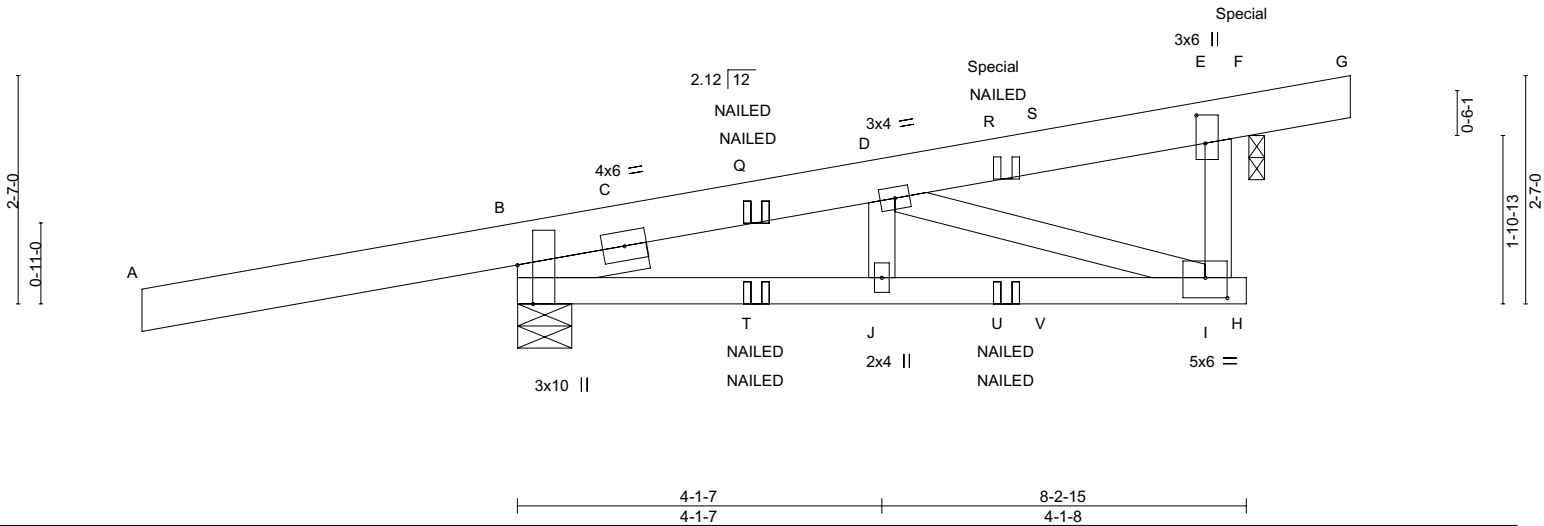
Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	RG02	DIAGONAL HIP GIRDER	2	1	R73430753

Job Reference (optional)

Trus-Way, Vancouver, WA - 98661, 8.620 s Aug 22 2022 MiTek Industries, Inc. Mon Nov 07 16:39:07 2022 Page 1
ID:JNvEloBxGkofHe3542w6p4yTouh-e8yk1UXBatFpek3T9Lcg0y00W6ScK19?eOwGnqyLWRo

-4-2-15 4-2-15 | 4-1-7 4-1-7 | 8-2-15 4-1-8 | 8-5-7 9-5-1 0-2-8 0-11-10

Scale = 1:26.1



4-1-7 4-1-7 | 8-2-15 4-1-8

Plate Offsets (X,Y)-- [B:0-5-5,Edge], [E:0-3-13,0-1-4], [I:0-3-0,0-2-12]

LOADING (psf)		SPACING-	1-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.05	I-J	>999	240	MT20	220/195
Snow (Pf/Pg)	20.8/30.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.11	I-J	>909	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	-0.01	F	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MP		Wind(LL)	0.03	I-J	>999	360	Weight: 52 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 DF SS G
BOT CHORD 2x4 DF No.1&Btr G
WEBS 2x4 DF Stud/Std G
SLIDER Left 2x4 DF Stud/Std -G- 1-6-0

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) B=0-7-6, F=0-2-2
Max Horz B=96(LC 66)
Max Uplift B=-172(LC 8), F=-71(LC 9)
Max Grav B=452(LC 17), F=613(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-D=-508/479, E-I=-76/467
BOT CHORD B-J=-146/475, I-J=-146/475
WEBS D-J=-116/465, D-I=-500/154

NOTES-
1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=20.8 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 12.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
5) Plates checked for a plus or minus 5 degree rotation about its center.
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) A plate rating reduction of 20% has been applied for the green lumber members.
9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) F.
10) One RT7 MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) B and F. This connection is for uplift only and does not consider lateral forces.
11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) F.
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
14) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
15) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

EXPIRES: 06/30/2023
November 9,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Modern Northwest
22010709-A	RG02	DIAGONAL HIP GIRDER	2	1	R734307537 Job Reference (optional)

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: A-B=-31, B-E=31(F=62), E-F=31(F=62), F-G=-31
   Concentrated Loads (lb)
   Vert: B=-135 F=-200(F) Q=8(F=15, B=-8) R=-151(F=-36, B=-115) T=1(F=25, B=-24) U=-34(F=-10, B=-24)
   Trapezoidal Loads (plf)
   Vert: K=10(F=10, B=10)-to-H=-158(F=-74, B=-74)

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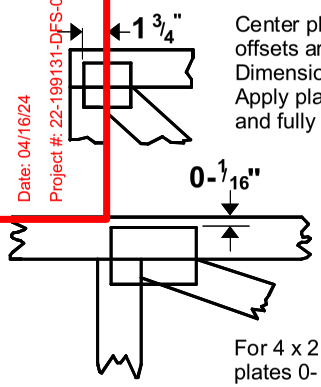
Symbols

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.

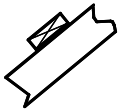
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

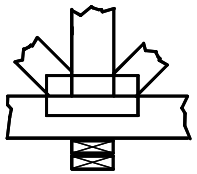
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

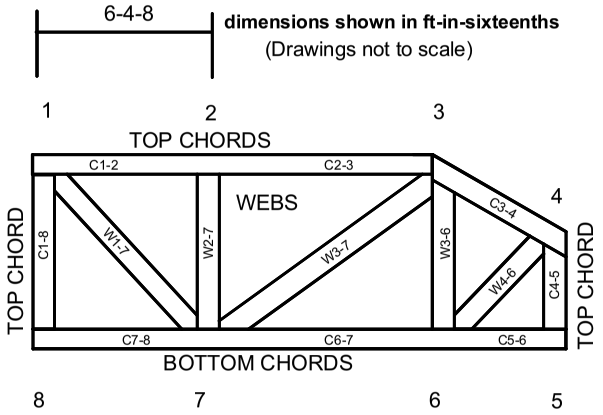


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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. 5/19/2020

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.