

APPROVED TO PROCEED  
SUBJECT TO CITY INSPECTORS 12/13/2022 DL

Re: J1114706  
Arrow Lumber-Orting

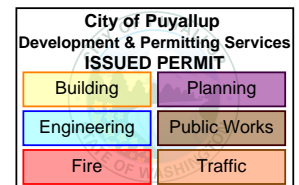
Tri-State Engineering, Inc.  
12810 NE 178th Street  
Suite 218  
Woodinville, WA 98072  
425.481.6601

The truss drawing(s) referenced below have been prepared by Tri-State Engineering under my direct supervision based on the parameters provided by The Truss Company (Sumner).

Pages or sheets covered by this seal: I14248585 thru I14248610

My license renewal date for the state of Washington is August 20, 2022.

THE APPROVED CONSTRUCTION  
PLANS AND ALL ENGINEERING  
DOCUMENTS MUST BE POSTED ON THE  
JOB AT ALL INSPECTIONS IN A VISIBLE  
AND READILY ACCESSIBLE LOCATION.



March 30, 2022

Terry Powell

The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI 1.

PRRNSF20220550

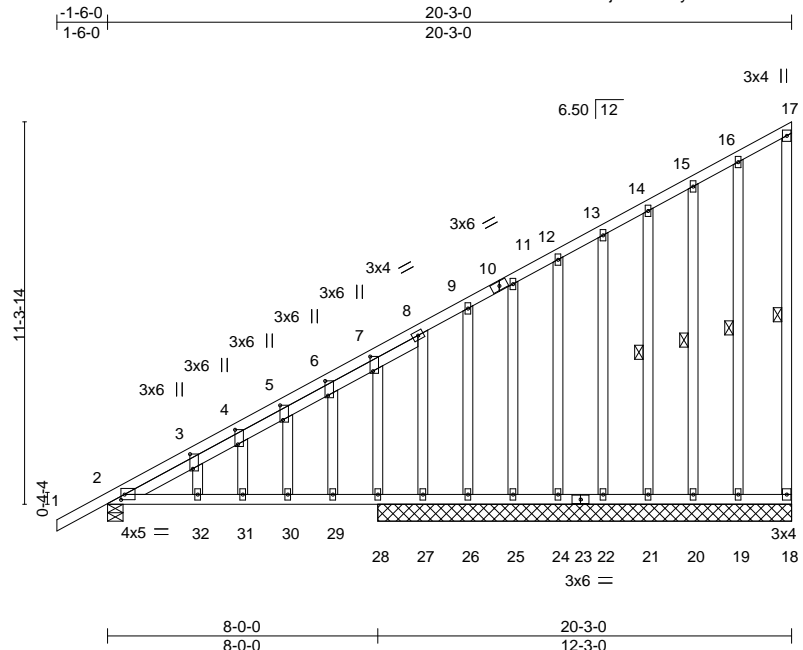
Job J1114706	Truss A1	Truss Type GABLE	Qty 1	Ply 1	Arrow Lumber-Orting Job Reference (optional)	I14248585
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The Truss Company (Sumner),

Sumner, WA - 98390,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 16:07:43 2022 Page 1

ID:hrXxBetUP3sEeUjoY7xaLTy75TH-aeLX5IKNgo?bDp63tH5L7CVuL?XayHgaph3oCSzW0zU



Scale = 1:68.2

Plate Offsets (X,Y)-- [2:0-1-4,0-1-14], [3:0-5-3,0-1-0], [4:0-5-3,0-1-0], [5:0-5-3,0-1-0], [6:0-5-3,0-1-0], [7:0-5-3,0-1-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0	TC 0.43	Vert(LL) -0.04	31	>999	360	MT20	185/148
TCDL 8.0	Plate Grip DOL 1.15	BC 0.20	Vert(CT) -0.07	31	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.19	Horz(CT) -0.00	2	n/a	n/a		
BCDL 7.0	Rep Stress Incr YES	Matrix-SH					Weight: 166 lb	FT = 16%
	Code IRC2018/TPI2014							

**LUMBER-**  
TOP CHORD 2x4 DF No.1&Btr  
BOT CHORD 2x4 HF No.2  
WEBS 2x4 HF No.2  
OTHERS 2x4 HF Stud \*Except\*  
12-24,13-22,14-21,15-20,16-19: 2x4 HF No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 17-18, 14-21, 15-20, 16-19

**REACTIONS.** All bearings 12-3-0 except (jt=length) 2=0-5-8.  
(lb) - Max Horz 28=295(LC 7)  
Max Uplift All uplift 100 lb or less at joint(s) 18, 26, 25, 24, 22, 21, 20, 19 except 28=134(LC 10), 27=217(LC 1)  
Max Grav All reactions 250 lb or less at joint(s) 18, 27, 26, 25, 24, 22, 21, 20, 19 except 2=382(LC 17), 28=730(LC 17)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-250/78  
WEBS 7-28=-525/110

- NOTES-** (12)
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
  - 4) Unbalanced snow loads have been considered for this design.
  - 5) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
  - 6) All plates are 2x4 MT20 unless otherwise indicated.
  - 7) Gable studs spaced at 1-4-0 oc.
  - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 26, 25, 24, 22, 21, 20, 19 except (jt=lb) 28=134, 27=217.
  - 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) All dimensions given in feet-inches-sixteenths (FFI/SS) format.



PRRNSF20220550

March 30,2022

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.**  
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, DSB-89 and BCSI1 Building Component  
**Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

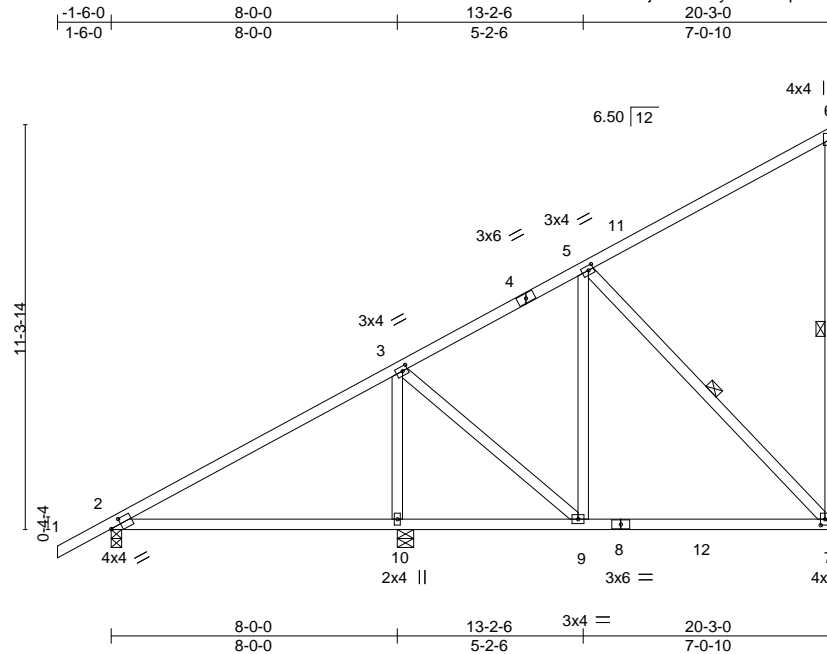


Job J1114706	Truss A2	Truss Type Monopitch	Qty 5	Ply 1	Arrow Lumber-Orting	114248586
Job Reference (optional)						

The Truss Company (Sumner), Sumner, WA - 98390,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 16:07:44 2022 Page 1

ID:hrXxBetUP3sEeUjoY7xaLTy75TH-2qvv5l?R57SrzhGQ\_cagQ1wpPpZhijl2LpLkvzW0zT



Scale: 3/16"=1'

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.96	Vert(LL)	-0.15	2-10	>628	360	MT20	185/148
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.47	Vert(CT)	-0.25	2-10	>375	240		
TCDL 8.0	Lumber DOL 1.15	WB 0.30	Horz(CT)	0.00	7	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH							
BCDL 7.0	Code IRC2018/TPI2014								
								Weight: 97 lb	FT = 16%

**LUMBER-**  
TOP CHORD 2x4 HF No.2  
BOT CHORD 2x4 HF No.2  
WEBS 2x4 HF Stud \*Except\*  
6-7,5-7: 2x4 HF No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 6-7, 5-7

**REACTIONS.** (size) 7=Mechanical, 2=0-3-8, 10=0-5-8  
Max Horz 10=295(LC 7)  
Max Uplift 7=-101(LC 10), 2=-34(LC 10), 10=-51(LC 10)  
Max Grav 7=661(LC 17), 2=429(LC 17), 10=908(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 3-5=-427/41, 6-7=-325/54  
BOT CHORD 7-9=-103/299  
WEBS 3-10=-709/97, 3-9=0/309, 5-7=-404/125

- NOTES-** (10)
- Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10 except (jt=lb) 7=101.
  - 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.
  - All dimensions given in feet-inches-sixteenths (FFI/ISS) format.



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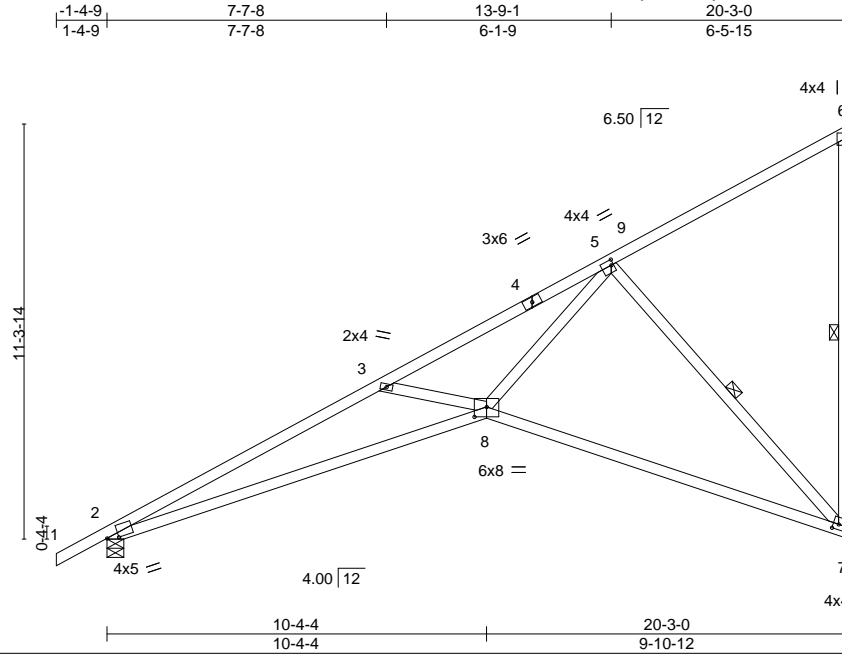
March 30,2022

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Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



Job J1114706	Truss A3	Truss Type Monopitch	Qty 8	Ply 1	Arrow Lumber-Orting	I14248587
Job Reference (optional)						

The Truss Company (Sumner), Sumner, WA - 98390, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 16:07:45 2022 Page 1  
ID:hrXxBetUP3sEeUjoY7xaLTy75TH-X0TIWRldCPFJT7GS\_i8pCda8wo3wQ5tH?YuGLzW0zS



Scale = 1:62.9

Plate Offsets (X,Y)-- [2:0-3-13,0-0-14], [5:0-0-12,0-1-12], [7:0-1-12,0-1-12], [8:0-4-0,0-3-4]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0		TC 0.81	Vert(LL)	-0.40	7-8	>603	360	MT20	185/148
(Roof Snow=25.0)	Plate Grip DOL 1.15		BC 0.84	Vert(CT)	-0.70	7-8	>342	240		
TCDL 8.0	Lumber DOL 1.15		WB 0.62	Horz(CT)	0.25	7	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES		Matrix-SH							
BCDL 7.0	Code IRC2018/TPI2014								Weight: 90 lb	FT = 16%

**LUMBER-**  
TOP CHORD 2x4 HF No.2 \*Except\*  
1-4: 2x4 DF No.1&Btr  
BOT CHORD 2x4 HF No.2  
WEBS 2x4 HF No.2 \*Except\*  
3-8,5-8: 2x4 HF Stud

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 9-0-13 oc bracing.  
WEBS 1 Row at midpt 6-7, 5-7

**REACTIONS.** (size) 7=Mechanical, 2=0-5-8  
Max Horz 2=294(LC 7)  
Max Uplift 7=-122(LC 10), 2=-63(LC 10)  
Max Grav 7=992(LC 17), 2=939(LC 17)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2741/299, 3-5=-2156/180, 6-7=-293/50  
BOT CHORD 2-8=-372/2430, 7-8=-138/838  
WEBS 3-8=-518/203, 5-8=-136/1655, 5-7=-1171/192

- NOTES-** (11)
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=122.
  - 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) All dimensions given in feet-inches-sixteenths (FFI/SS) format.

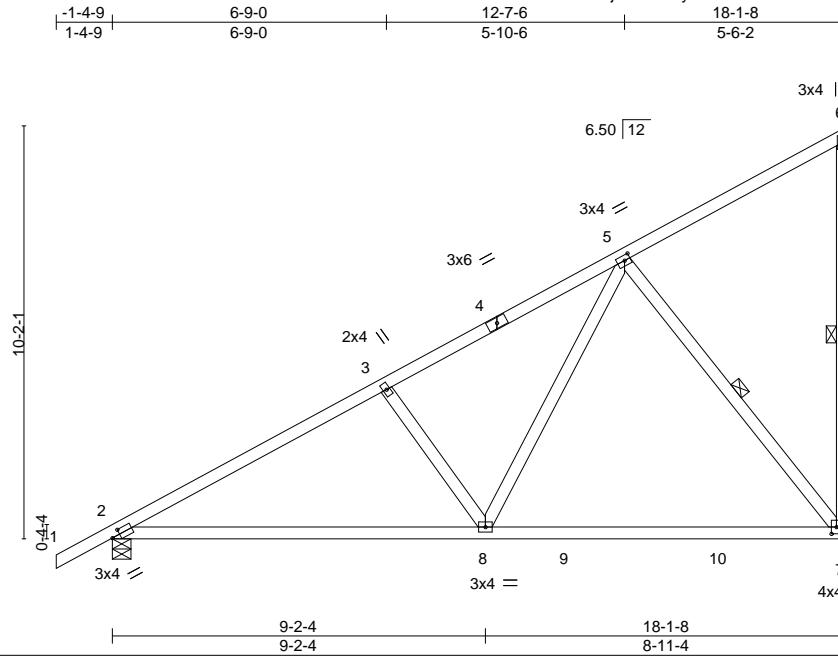


PRRNSF20220550

March 30,2022

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Scale = 1:56.7

Plate Offsets (X,Y)-- [2:0-2-7,0-1-8], [5:0-1-12,0-1-8], [7:0-1-8,0-2-0]									
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d		<b>PLATES</b>	<b>GRIP</b>
TCLL	25.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.29 7-8 >723 360	MT20	185/148
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.40 7-8 >529 240		
TCDL	8.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02 7 n/a n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH				Weight: 82 lb	FT = 16%
BCDL	7.0								

**LUMBER-**

TOP CHORD 2x4 HF No.2  
BOT CHORD 2x4 HF No.2  
WEBS 2x4 HF No.2 \*Except\*  
3-8: 2x4 HF Stud

**BRACING-**

TOP CHORD	Structural wood sheathing directly applied or 4-6-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 6-7, 5-7

## REACTIONS.

(size) 7=Mechanical, 2=0-5-8  
Max Horz 2=264(LC 7)  
Max Uplift 7=-108(LC 10), 2=-59(LC 10)  
Max Grav 7=904(LC 3), 2=862(LC 3)

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

TOP CHORD 2-3=-1140/61, 3-5=-942/75  
BOT CHORD 2-8=-124/966, 7-8=-75/473  
WEBS 3-8=-365/136, 5-8=-42/687, 5-7=-754/146

**NOTES- (10)**

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCCL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCCL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=108.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) All dimensions given in feet-inches-sixteenths (FFI/SS) format.



PRRNSF20220550

March 30, 2022



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the**TRUSS**CO. INC.



The Truss Company (Sumner), Sumner, WA - 98390, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 16:07:47 2022 Page 1  
ID:hrXxBetUP3sEeUjoY7xaLTy75TH-TPa2x7ntk0V1iQQr66AHH2fc6clyu?dAkJ1?LEzW0zQ

Technical drawing of a roof truss (Dachstuhl) showing the internal structure with various beams and supports. The drawing includes dimensions for the roof pitch (1:4.9), the height (2.6.4), and the span (6.50). The truss is supported by four columns (26, 27, 28, 29) and has a total length of 13.2-15. The drawing is labeled with various numbers and symbols indicating different parts and dimensions.

Plate Offsets (X,Y)-- [2:0-0-12,Edge], [3:0-4-0,0-2-4], [11:0-3-0,0-3-0], [17:0-1-12,0-1-12], [27:0-1-12,0-1-8]									
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d		<b>PLATES</b>	<b>GRIP</b>
TCLL	25.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.14 28-29 >999 360	MT20	185/148
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.21 28-29 >999 240		
TCDL	8.0	Rep Stress Incr	NO	WB	0.58	Horz(CT)	0.07 26 n/a n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH				Weight: 154 lb	FT = 16%
BCDL	7.0								

LUMBER-		BRACING-	
TOP CHORD	2x4 HF No.2 *Except* 3-25: 2x6 DF SS	TOP CHORD	Structural wood sheathing directly applied or 3-7-5 oc purlins, except end verticals.
BOT CHORD	2x4 HF No.2	BOT CHORD	Rigid ceiling directly applied or 7-4-9 oc bracing.
WEBS	2x4 HF Stud *Except* 24-26: 2x4 HF No.2	WEBS	1 Row at midpt 24-26, 17-26
OTHERS	2x4 HF Stud	JOINTS	1 Brace at Jt(s): 10, 17, 13, 21

**REACTIONS.** (size) 26=Mechanical, 2=0-5-8  
 Max Horz 2=264(LC 9)  
 Max Uplift 26=-270(LC 10), 2=-183(LC 10)  
 Max Grav 26=1433(LC 17), 2=1324(LC 17)

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

**TOP CHORD** 2-3=-2298/311, 25-26=-258/55, 3-5=-2786/676, 5-7=-2786/676, 7-9=-2786/676,  
9-10=-2786/676, 10-12=-2293/565, 12-13=-2290/564, 13-16=-2290/564, 16-17=-2290/564

**BOT CHORD** 2-9=-381/1959, 28-29=-380/1915, 27-28=-596/2796, 26-27=-485/2303

**WEBS** 17-27=-97/659, 3-28=-241/985, 10-27=-611/122, 17-26=-2427/518

- NOTES- (17)**
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 3) TCLK: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
  - 4) Unbalanced snow loads have been considered for this design.
  - 5) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
  - 6) Provide adequate drainage to prevent water ponding.
  - 7) All plates are 2x4 MT20 unless otherwise indicated.
  - 8) Gable studs spaced at 1-4-0 oc.
  - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 10) \* 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) Refer to girder(s) for truss to truss connections.
  - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 26=270, 2=183.
  - 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2



March 30, 2022

PRRNSF20220550

**WARNING** - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.

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**Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



Job J1114706	Truss A5	Truss Type GABLE	Qty 1	Ply 1	Arrow Lumber-Orting I14248589
Job Reference (optional)					

The Truss Company (Sumner), Sumner, WA - 98390,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 16:07:47 2022 Page 2  
ID:hrXxBetUP3sEeUjoY7xaLTy75TH-TPa2x7ntk0V1iQQr66AHH2fc6cIyu?dAkJ1?LEzW0zQ

**NOTES-** (17)

- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 119 lb down and 37 lb up at 3-7-5 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).
- 17) All dimensions given in feet-inches-sixteenths (FIISS) format.

**LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-66, 3-24=-66, 2-29=-19(F=-5), 26-29=-78(F=-64)

Concentrated Loads (lb)

Vert: 31=-99(F)

PRRNSF20220550



**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.**

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**ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component**

**Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



the**TRUSS**CO. INC.

Job J1114706	Truss B1	Truss Type GABLE	Qty 1	Ply 1	Arrow Lumber-Orting	114248590
The Truss Company (Sumner), Sumner, WA - 98390,						8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 16:07:48 2022 Page 1
						ID:hrXxBetUP3sEeUjoY7xaLTy75TH-xb8Q8ToWVKduKa?1fqhWqGCr40HDb1JzznZtgzW0zP
						Job Reference (optional)

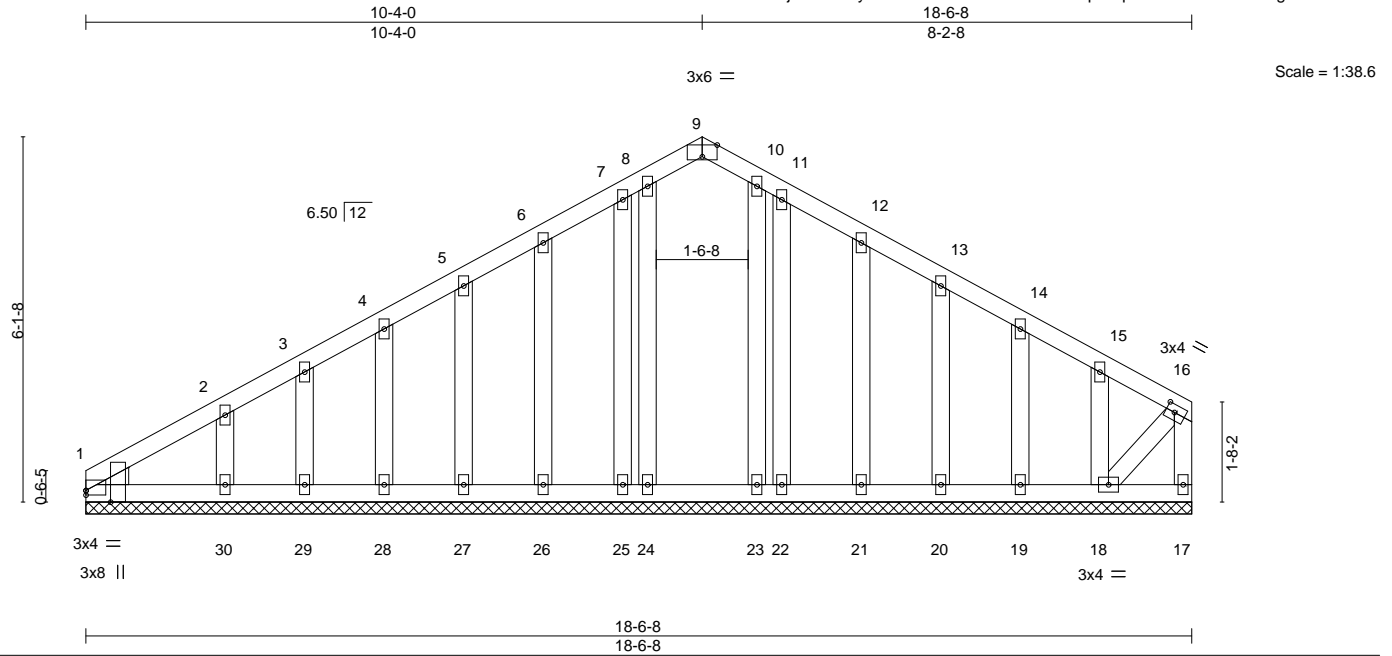


Plate Offsets (X,Y)-- [1:0-2-5,Edge], [1:0-0-0,0-0-15], [9:0-3-0,Edge], [16:0-1-12,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.05	Vert(LL)	n/a	-	n/a	999	MT20	185/148
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.04	Vert(CT)	n/a	-	n/a	999		
TCDL 8.0	Lumber DOL 1.15	WB 0.06	Horz(CT)	0.00	17	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH							
BCDL 7.0	Code IRC2018/TPI2014								
								Weight: 104 lb	FT = 16%

**LUMBER-**  
TOP CHORD 2x4 HF No.2  
BOT CHORD 2x4 HF No.2  
WEBS 2x4 HF Stud  
OTHERS 2x4 HF Stud  
WEDGE  
Left: 2x4 HF Stud

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

**REACTIONS.** All bearings 18-6-8.  
(lb) - Max Horz 1=94(LC 9)  
Max Uplift All uplift 100 lb or less at joint(s) 17, 25, 26, 27, 28, 29, 30, 22, 21, 20, 19, 18  
Max Grav All reactions 250 lb or less at joint(s) 17, 24, 23, 25, 26, 27, 28, 29, 1, 30, 22, 21, 20, 19, 18

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

- NOTES-** (12)
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
  - 4) Unbalanced snow loads have been considered for this design.
  - 5) All plates are 2x4 MT20 unless otherwise indicated.
  - 6) Gable requires continuous bottom chord bearing.
  - 7) Gable studs spaced at 1-4-0 oc.
  - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 25, 26, 27, 28, 29, 30, 22, 21, 20, 19, 18.
  - 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) All dimensions given in feet-inches-sixteenths (FFI/SS) format.



PRRNSF20220550

March 30,2022

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**Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.





The Truss Company (Sumner), Sumner, WA - 98390, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 16:07:49 2022 Page 1  
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Job J1114706	Truss B4	Truss Type GABLE	Qty 1	Ply 1	Arrow Lumber-Orting	I14248593
Job Reference (optional)						

The Truss Company (Sumner), Sumner, WA - 98390,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 16:07:51 2022 Page 1

ID:hrXxBetUP3sEeUjoY7xaLTy75TH-LAqZmUqOoF0SB2jclYEDSuqMKDJwqymfw?DU?zW0zM

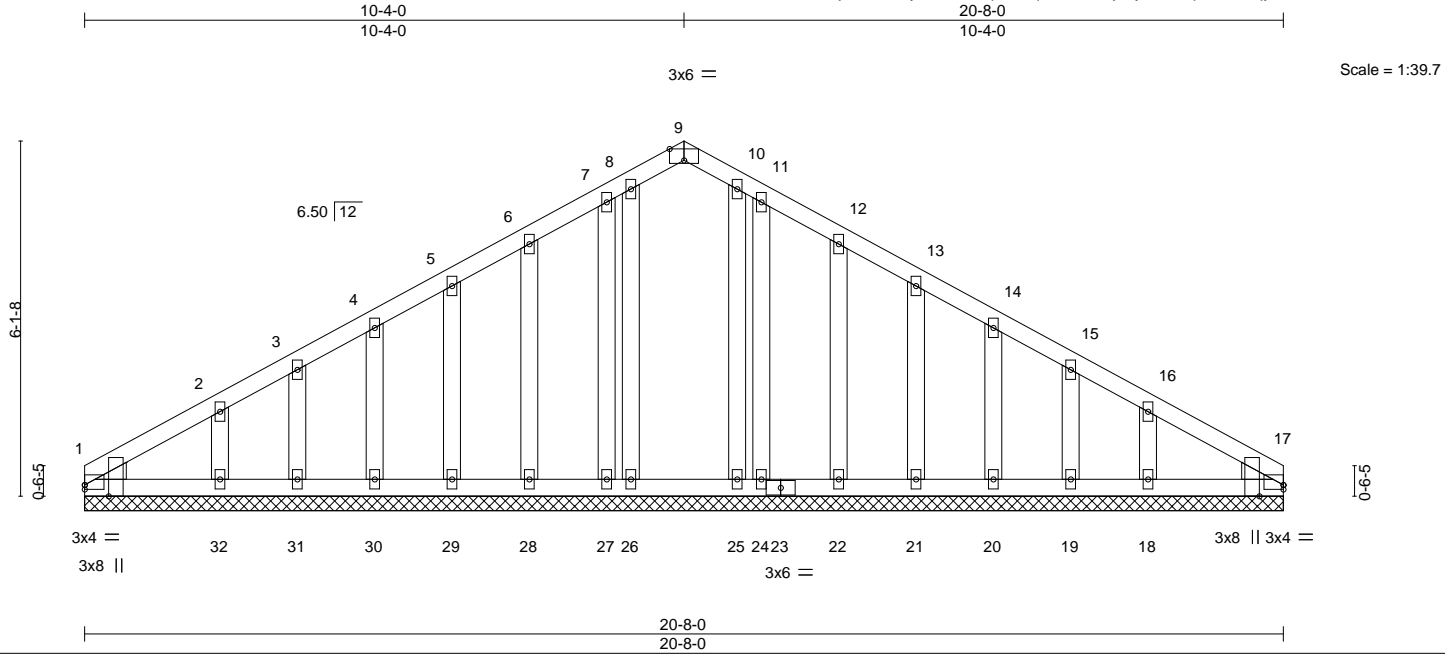


Plate Offsets (X,Y)-- [1:0-2-5,Edge], [1:0-0-0,0-0-15], [9:0-3-0,Edge], [17:0-0-0,0-0-15], [17:0-2-5,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.05	Vert(LL)	n/a	-	n/a	MT20	185/148
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.04	Vert(CT)	n/a	-	n/a		
TCDL 8.0	Lumber DOL 1.15	WB 0.06	Horz(CT)	0.00	17	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH					Weight: 108 lb	FT = 16%
BCDL 7.0	Code IRC2018/TPI2014							

**LUMBER-**  
TOP CHORD 2x4 HF No.2  
BOT CHORD 2x4 HF No.2  
OTHERS 2x4 HF Stud  
WEDGE  
Left: 2x4 HF Stud , Right: 2x4 HF Stud

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

**REACTIONS.** All bearings 20-8-0.  
(lb) - Max Horz 1=75(LC 7)  
Max Uplift All uplift 100 lb or less at joint(s) 27, 28, 29, 30, 31, 32, 24, 22, 21, 20, 19, 18  
Max Grav All reactions 250 lb or less at joint(s) 26, 25, 27, 28, 29, 30, 31, 32, 1, 17, 24, 22, 21, 20, 19, 18

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

- NOTES-** (12)
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
  - 4) Unbalanced snow loads have been considered for this design.
  - 5) All plates are 2x4 MT20 unless otherwise indicated.
  - 6) Gable requires continuous bottom chord bearing.
  - 7) Gable studs spaced at 1-4-0 oc.
  - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 28, 29, 30, 31, 32, 24, 22, 21, 20, 19, 18.
  - 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) All dimensions given in feet-inches-sixteenths (FFI/SS) format.



PRRNSF20220550

March 30,2022

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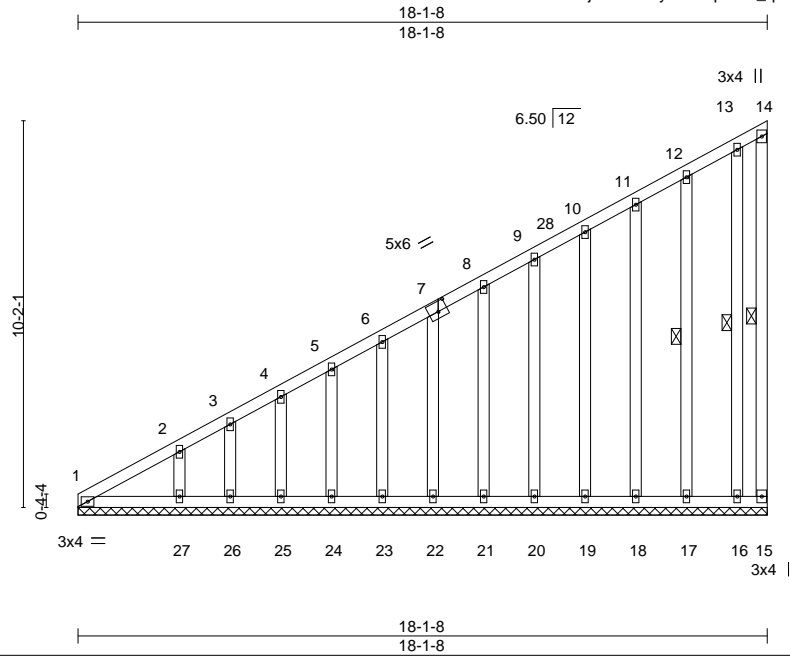
Job J1114706	Truss C1	Truss Type GABLE	Qty 1	Ply 1	Arrow Lumber-Orting	114248594
Job Reference (optional)						

The Truss Company (Sumner),

Sumner, WA - 98390,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 16:07:52 2022 Page 1

ID:hrXxBetUP3sEeUjoY7xaLTy75TH-pNOx\_qr0ZZ8JoClougmS\_6MSaddNZNDvualm0RzW0zL



Scale = 1:60.6

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.34	Vert(LL)	n/a	-	n/a	MT20	185/148
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.15	Vert(CT)	n/a	-	n/a		
TCDL 8.0	Lumber DOL 1.15	WB 0.17	Horz(CT)	-0.00	15	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH						
BCDL 7.0	Code IRC2018/TPI2014							
							Weight: 130 lb	FT = 16%

**LUMBER-**  
TOP CHORD 2x4 HF No.2  
BOT CHORD 2x4 HF No.2  
WEBS 2x4 HF No.2  
OTHERS 2x4 HF Stud \*Except\*  
10-19,11-18,12-17,13-16: 2x4 HF No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
WEBS 1 Row at midpt 14-15, 12-17, 13-16

**REACTIONS.** All bearings 18-1-8.  
(lb) - Max Horz 1=256(LC 9)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16 except 15=104(LC 9)  
Max Grav All reactions 250 lb or less at joint(s) 15, 1, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16

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

- NOTES-** (12)  
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33  
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.  
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10  
4) Unbalanced snow loads have been considered for this design.  
5) All plates are 2x4 MT20 unless otherwise indicated.  
6) Gable requires continuous bottom chord bearing.  
7) Gable studs spaced at 1-4-0 oc.  
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.  
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 27, 26, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16 except (jt=lb) 15=104.  
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) All dimensions given in feet-inches-sixteenths (FFI/SS) format.



PRRNSF20220550

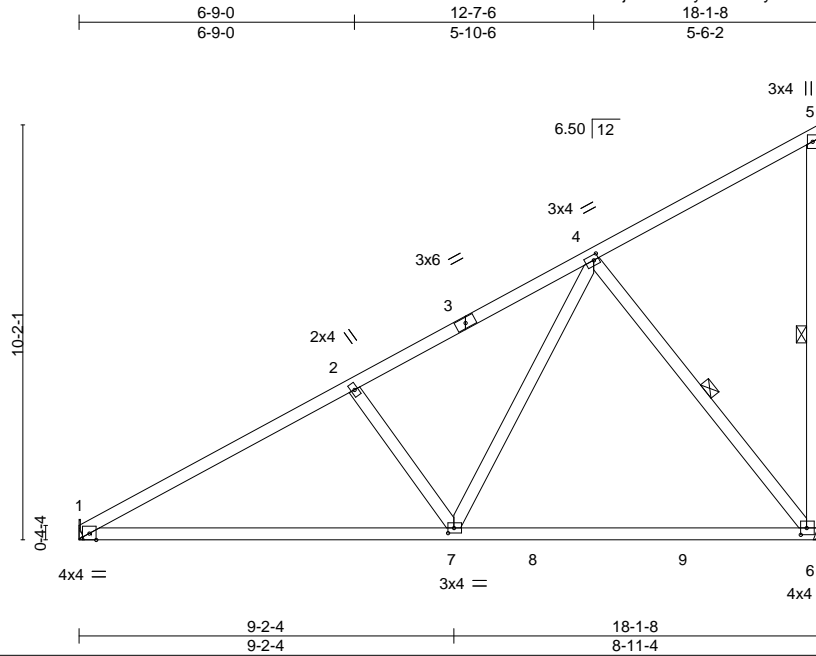
March 30,2022

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**Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



Job J1114706	Truss C2	Truss Type Jack-Closed	Qty 7	Ply 1	Arrow Lumber-Orting	I14248595
Job Reference (optional)						

The Truss Company (Sumner), Sumner, WA - 98390, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 16:07:53 2022 Page 1  
ID:hrXxBetUP3sEeUjoY7xaLTy75TH-IZyJBaSeKsGAQLt\_SNHhXJvaJ1piInZ26EUJZtzW0zK



Scale = 1:56.5

Plate Offsets (X,Y)-- [4:0-1-8,0-1-8], [6:0-1-12,0-2-0], [7:0-1-12,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.53	Vert(LL)	-0.29	6-7	>735	360	MT20	185/148
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.79	Vert(CT)	-0.40	6-7	>543	240		
TCDL 8.0	Lumber DOL 1.15	WB 0.30	Horz(CT)	0.02	6	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-SH							
BCDL 7.0	Code IRC2018/TPI2014								
								Weight: 80 lb	FT = 16%

**LUMBER-**  
TOP CHORD 2x4 HF No.2  
BOT CHORD 2x4 HF No.2  
WEBS 2x4 HF No.2 \*Except\*  
2-7: 2x4 HF Stud

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-1-14 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 5-6, 4-6

**REACTIONS.** (size) 6=Mechanical, 1=Mechanical  
Max Horz 1=256(LC 9)  
Max Uplift 6=110(LC 10), 1=38(LC 10)  
Max Grav 6=915(LC 3), 1=778(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=1159/67, 2-4=972/80  
BOT CHORD 1-7=130/1005, 6-7=75/483  
WEBS 2-7=393/141, 4-7=48/721, 4-6=770/148

- NOTES-** (9)
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
  - 6) Refer to girder(s) for truss to truss connections.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 6=110.
  - 8) 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.
  - 9) All dimensions given in feet-inches-sixteenths (FFIIS) format.



PRRNSF20220550

March 30,2022

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Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

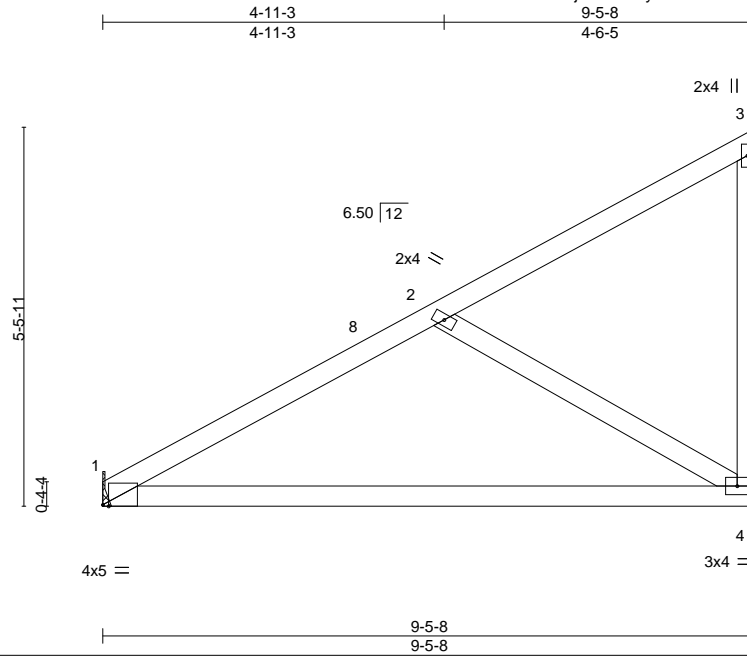




Job J1114706	Truss C3	Truss Type JACK-CLOSED	Qty 3	Ply 1	Arrow Lumber-Orting	I14248596
Job Reference (optional)						

The Truss Company (Sumner), Sumner, WA - 98390,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 16:07:54 2022 Page 1  
ID:hrXxBetUP3sEeUjoY7xaLTy75TH-mVhPWsG5AO12VSB04ow3XSI6RCy1ESCLuEt5KzW0zJ



Scale = 1:33.3

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.53	Vert(LL)	-0.26	4-7	>436	360	MT20	185/148
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.59	Vert(CT)	-0.45	4-7	>249	240		
TCDL 8.0	Lumber DOL 1.15	WB 0.32	Horz(CT)	0.01	4	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						Weight: 35 lb	FT = 16%
BCDL 7.0	Code IRC2018/TPI2014								

#### LUMBER-

TOP CHORD 2x4 HF No.2  
BOT CHORD 2x4 HF No.2  
WEBS 2x4 HF Stud

#### 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) 1=Mechanical, 4=Mechanical  
Max Horz 1=133(LC 9)  
Max Uplift 1=20(LC 10), 4=57(LC 10)  
Max Grav 1=434(LC 16), 4=524(LC 16)

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

TOP CHORD 1-2=570/55  
BOT CHORD 1-4=68/487  
WEBS 2-4=564/116

#### NOTES- (9)

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4.
- 8) 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.
- 9) All dimensions given in feet-inches-sixteenths (FFIIS) format.



PRRNSF20220550

March 30,2022



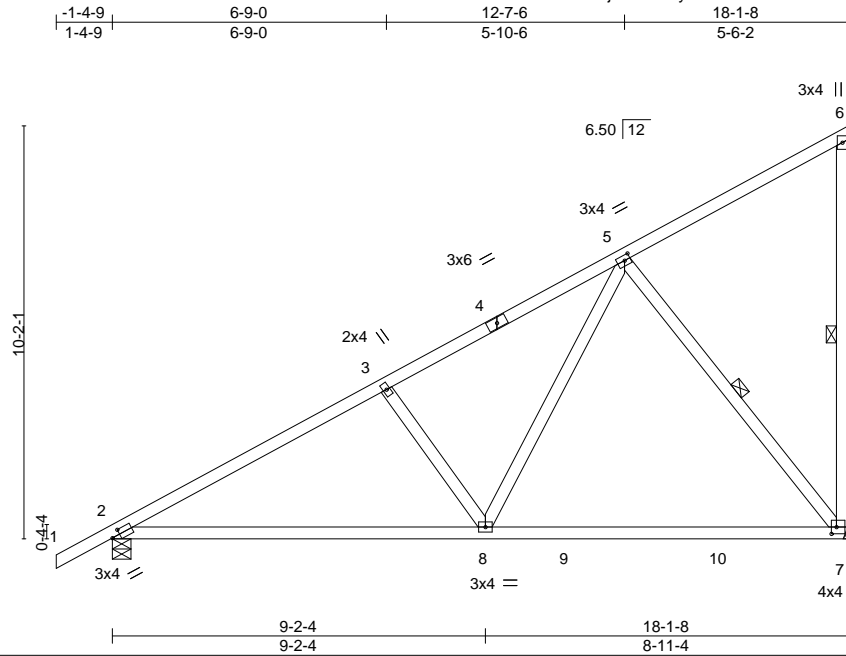
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.**

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.





The Truss Company (Sumner), Sumner, WA - 98390, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 16:07:54 2022 Page 1  
ID:hrXxBetUP3sEeUjoY7xaLTy75TH-mIVhPWSG5AO12VSB04ow3XSI5Rab1EvCLuEt5KzW0zJ



Scale = 1:56.7

[illegible]

**LUMBER-**

TOP CHORD 2x4 HF No.2  
BOT CHORD 2x4 HF No.2  
WEBS 2x4 HF No.2 \*Except\*  
3-8: 2x4 HF Stud

**BRACING-**

TOP CHORD	Structural wood sheathing directly applied or 4-6-4 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 6-7, 5-7

## REACTIONS.

(size) 7=Mechanical, 2=0-5-8  
Max Horz 2=264(LC 7)  
Max Uplift 7=-108(LC 10), 2=-59(LC 10)  
Max Grav 7=904(LC 3), 2=862(LC 3)

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

TOP CHORD 2-3=-1140/61, 3-5=-942/75  
BOT CHORD 2-8=-124/966, 7-8=-75/473  
WEBS 3-8=-365/136, 5-8=-42/687, 5-7=-754/146

**NOTES- (10)**

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCCL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCCL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=108.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) All dimensions given in feet-inches-sixteenths (FFI/SS) format.



PRRNSF20220550

March 30, 2022

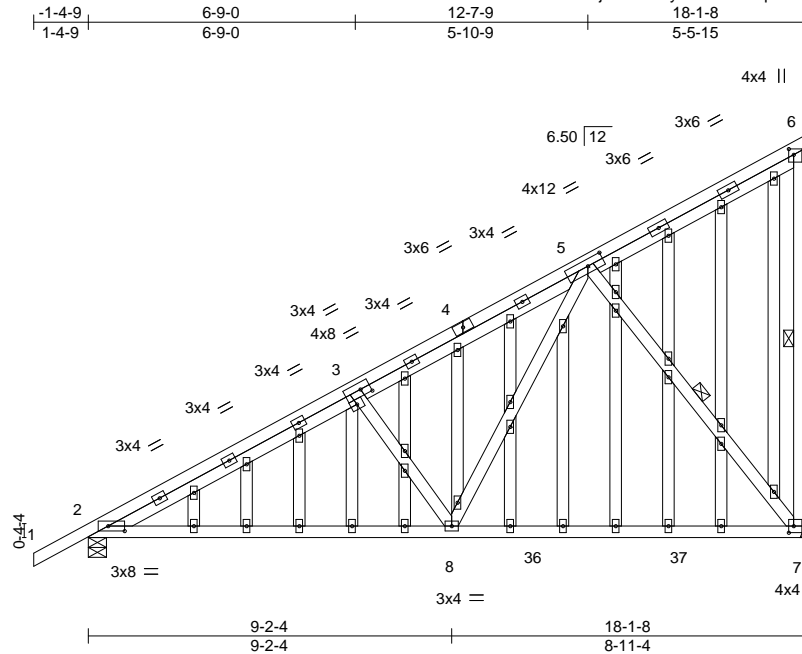


**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.**

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the**TRUSS**CO. INC.

The Truss Company (Sumner), Sumner, WA - 98390, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 16:07:56 2022 Page 1  
ID:hrXxBetUP3sEeUjoY7xalTy75TH-i8dSqCuXdnelHpcZ7VqO9yX7nEsiV8HVoCj\_9CzW0zH



Scale = 1:58.3

Plate Offsets (X,Y)-- [2:0-5-0,0-1-8], [3:0-3-0,0-2-0], [5:0-5-0,0-2-0], [6:0-1-12,0-1-8], [7:0-1-8,0-2-0]												
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) I/defl L/d				<b>PLATES</b>	<b>GRIP</b>	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	-0.30	7-8	>710	360	MT20	185/148
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.42	7-8	>511	240		
TCDL	8.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	7	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH							Weight: 178 lb	FT = 16%
BCDL	7.0											

LUMBER-		BRACING-	
TOP CHORD	2x4 DF No.1&Btr	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 HF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 HF No.2 *Except*	WEBS	1 Row at midpt                      6-7, 5-7
	3-8: 2x4 HF Stud		
OTHERS	2x4 HF Stud *Except*		
	34-35: 2x4 HF No.2		
SLIDER	Left 2x4 DF No.1&Btr 7-0-0		

**REACTIONS.** (size) 7=Mechanical, 2=0-5-8  
 Max Horz 2=264(LC 9)  
 Max Uplift 7=-108(LC 10), 2=-59(LC 10)  
 Max Grav 7=907(LC 3), 2=863(LC 3)

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

TOP CHORD	2-3=-1148/59, 3-5=-966/71
BOT CHORD	2-8=-123/999, 7-8=-74/500
WEBS	3-8=-384/133, 5-8=-39/690, 5-7=-774/143

- NOTES-** (13)
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
  - 4) Unbalanced snow loads have been considered for this design.
  - 5) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
  - 6) All plates are 2x4 MT20 unless otherwise indicated.
  - 7) Gable studs spaced at 1-4-0 oc.
  - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
  - 10) Refer to girder(s) for truss to truss connections.
  - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=108.
  - 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) All dimensions given in feet-inches-sixteenths (FFI/ISS) format.



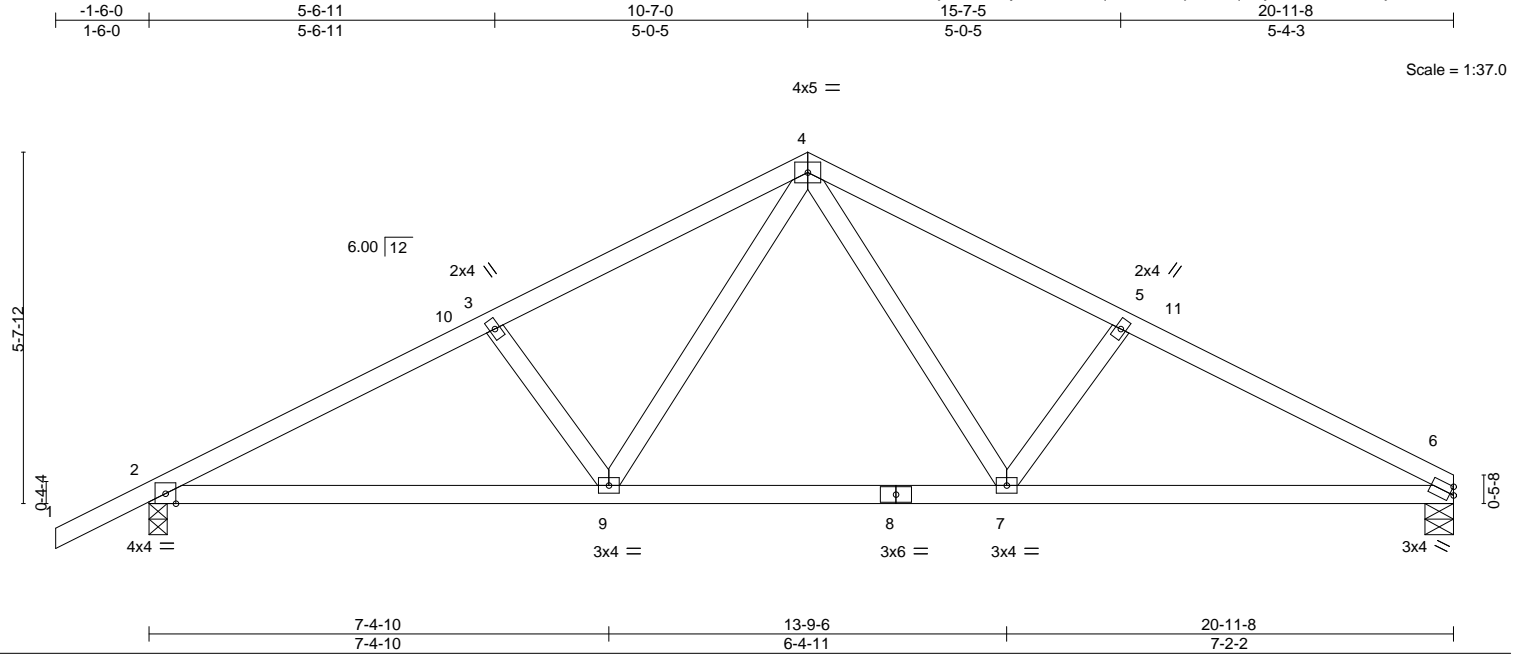
PRRNSF20220550

March 30, 2022

Job <b>J1114706</b>	Truss <b>D1</b>	Truss Type <b>Common</b>	Qty <b>2</b>	Ply <b>1</b>	Arrow Lumber-Orting <b>I14248599</b>
Job Reference (optional)					

The Truss Company (Sumner), Sumner, WA - 98390,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 16:07:56 2022 Page 1  
ID:hrXxBetUP3sEeUjoY7xaLTy75TH-i8dSqCuXdnellHpcZ7VqO9yX6cEwIV9IVoCj\_9CzW0zH



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.46	in	(loc)	I/defl	L/d	MT20		185/148	
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.41	Vert(LL)	-0.08	2-9	>999				
TCDL	8.0	Rep Stress Incr	YES	WB	0.20	Vert(CT)	-0.15	2-9	>999				
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-SH		Horz(CT)	0.04	6	n/a				
BCDL	7.0												
										Weight: 75 lb		FT = 16%	

**LUMBER-**  
TOP CHORD 2x4 HF No.2  
BOT CHORD 2x4 HF No.2  
WEBS 2x4 HF Stud

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

**REACTIONS.** (size) 6=0-5-8, 2=0-3-8  
Max Horz 2=76(LC 10)  
Max Uplift 6=-47(LC 11), 2=-71(LC 10)  
Max Grav 6=865(LC 18), 2=982(LC 17)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1540/90, 3-4=-1310/97, 4-5=-1295/100, 5-6=-1499/92  
BOT CHORD 2-9=-94/1305, 7-9=-5/797, 6-7=-36/1274  
WEBS 4-7=-49/516, 5-7=-412/115, 4-9=-44/539, 3-9=-442/116

- NOTES-** (9)
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.
  - 8) 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.
  - 9) All dimensions given in feet-inches-sixteenths (FFIIS) format.



**PRRNSF20220550**

March 30, 2022

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**Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



Job <b>J1114706</b>	Truss <b>D2</b>	Truss Type <b>Common</b>	Qty <b>2</b>	Ply <b>1</b>	Arrow Lumber-Orting <b>I14248600</b>
Job Reference (optional)					

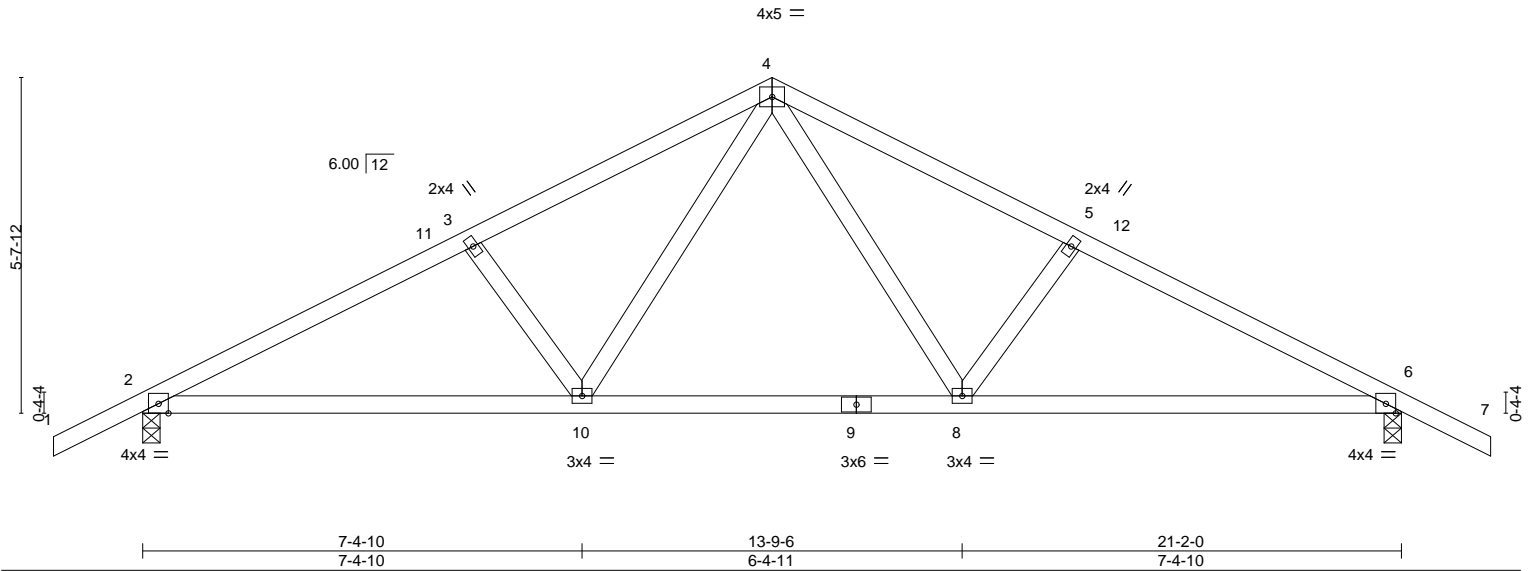
The Truss Company (Sumner), Sumner, WA - 98390,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 16:07:57 2022 Page 1

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-1-6-0 1-6-0	5-6-11 5-6-11	10-7-0 5-0-5	15-7-5 5-0-5	21-2-0 5-6-11	22-8-0 1-6-0
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Scale = 1:38.7



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	TC 0.46 BC 0.40 WB 0.20 Matrix-SH	in (loc) l/defl L/d Vert(LL) -0.08 2-10 >999 360 Vert(CT) -0.16 2-10 >999 240 Horz(CT) 0.04 6 n/a n/a	MT20	185/148
TCDL 8.0				Weight: 78 lb	FT = 16%
BCLL 0.0 *					
BCDL 7.0					

**LUMBER-**  
TOP CHORD 2x4 HF No.2  
BOT CHORD 2x4 HF No.2  
WEBS 2x4 HF Stud

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-1-11 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 2=0-3-8, 6=0-3-8  
Max Horz 2=69(LC 10)  
Max Uplift 2=-71(LC 10), 6=-71(LC 11)  
Max Grav 2=989(LC 17), 6=989(LC 18)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1555/90, 3-4=-1325/97, 4-5=-1325/97, 5-6=-1555/90  
BOT CHORD 2-10=-86/1318, 8-10=0/811, 6-8=-17/1318  
WEBS 4-8=-45/539, 5-8=-442/116, 4-10=-45/539, 3-10=-442/116

**NOTES-** (9)  
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33  
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10  
3) Unbalanced snow loads have been considered for this design.  
4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.  
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.  
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.  
8) 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.  
9) All dimensions given in feet-inches-sixteenths (FFIIS) format.



**PRRNSF20220550**

March 30,2022

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**Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



Job <b>J1114706</b>	Truss <b>D3</b>	Truss Type <b>GABLE</b>	Qty <b>1</b>	Ply <b>1</b>	Arrow Lumber-Orting <b>I14248601</b>
Job Reference (optional)					

The Truss Company (Sumner), Sumner, WA - 98390,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 16:07:58 2022 Page 1  
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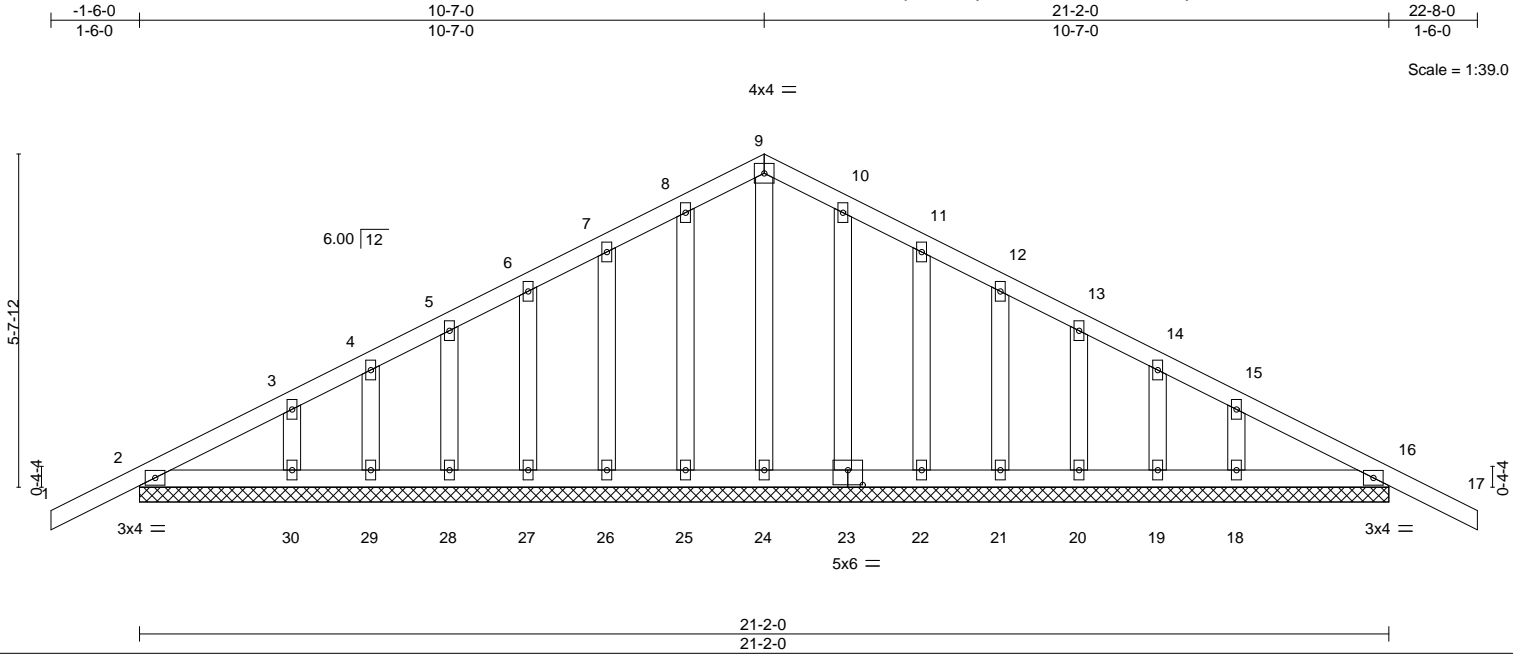


Plate Offsets (X,Y)-- [23:0-3-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	TC 0.15 BC 0.07 WB 0.07 Matrix-SH	Vert(LL) 0.01 Vert(CT) 0.00 Horz(CT) 0.00	17 17 16	n/r n/r n/a	120 90 n/a	MT20	185/148
TCDL 8.0								
BCLL 0.0 *								
BCDL 7.0								
							Weight: 101 lb	FT = 16%

**LUMBER-**  
TOP CHORD 2x4 HF No.2  
BOT CHORD 2x4 HF No.2  
OTHERS 2x4 HF Stud

**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 21-2-0.  
(lb) - Max Horz 2=69(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18, 16  
Max Grav All reactions 250 lb or less at joint(s) 2, 24, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18, 16

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

- NOTES-** (13)
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
  - 4) Unbalanced snow loads have been considered for this design.
  - 5) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
  - 6) All plates are 2x4 MT20 unless otherwise indicated.
  - 7) Gable requires continuous bottom chord bearing.
  - 8) Gable studs spaced at 1-4-0 oc.
  - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 25, 26, 27, 28, 29, 30, 23, 22, 21, 20, 19, 18, 16.
  - 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) All dimensions given in feet-inches-sixteenths (FFI/SS) format.



**PRRNSF20220550**

March 30,2022

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**Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



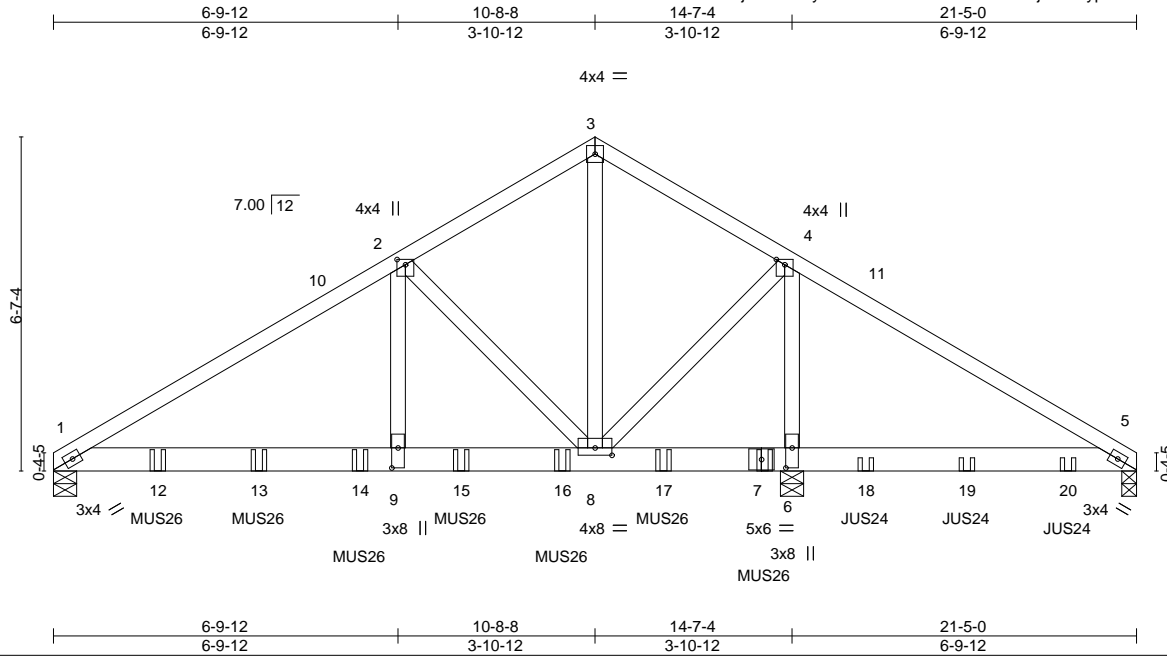


Job <b>J1114706</b>	Truss <b>E1</b>	Truss Type <b>COMMON GIRDER</b>	Qty <b>1</b>	Ply <b>2</b>	Arrow Lumber-Orting <b>114248602</b>
Job Reference (optional)					

The Truss Company (Sumner), Sumner, WA - 98390,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 16:08:06 2022 Page 1

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Scale = 1:45.6

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.46	Vert(LL)	-0.10	1-9	>999	MT20	185/148
(Roof Snow=25.0)	Plate Grip DOL 1.15	BC 0.57	Vert(CT)	-0.16	1-9	>999		
TCDL 8.0	Lumber DOL 1.15	WB 0.46	Horz(CT)	0.01	6	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-SH						
BCDL 7.0	Code IRC2018/TPI2014						Weight: 204 lb	FT = 16%

**LUMBER-**  
TOP CHORD 2x4 HF No.2  
BOT CHORD 2x6 DF SS  
WEBS 2x4 HF Stud

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-10-8 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (size) 1=0-5-8, 5=0-3-8, 6=0-5-8  
Max Horz 1=-104(LC 8)  
Max Uplift 1=-250(LC 10), 5=-30(LC 11), 6=-451(LC 11)  
Max Grav 1=2693(LC 16), 5=361(LC 17), 6=4884(LC 17)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-3515/328, 2-3=-1396/167, 3-4=-1329/172, 4-5=-85/736  
BOT CHORD 1-9=-287/2955, 8-9=-287/2955, 6-8=-581/103, 5-6=-581/103  
WEBS 2-9=-208/2452, 2-8=-2656/320, 3-8=-137/1091, 4-8=-214/2370, 4-6=-2947/302

- NOTES-** (13)
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 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.
  - 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.
  - Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
  - Unbalanced snow loads have been considered for this design.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 1=250, 6=451.
  - 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.
  - Use MiTek MUS26 (With 6-10d nails into Girder & 6-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 14-0-12 to connect truss(es) to front face of bottom chord.
  - 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 16-0-12 from the left end to 20-0-12 to connect truss(es) to front face of bottom chord.
  - Fill all nail holes where hanger is in contact with lumber.
  - All dimensions given in feet-inches-sixteenths (FIISS) format.



LOAD CASE(S) Standard

PRRNSF20220550

March 30,2022

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Job J1114706	Truss E1	Truss Type COMMON GIRDER	Qty 1	Ply 2	Arrow Lumber-Orting I14248602
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The Truss Company (Sumner), Sumner, WA - 98390,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 16:08:06 2022 Page 2  
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#### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-66, 3-5=-66, 1-5=-14

Concentrated Loads (lb)

Vert: 7=-717(F) 12=-717(F) 13=-717(F) 14=-717(F) 15=-717(F) 16=-717(F) 17=-717(F) 18=-373(F) 19=-373(F) 20=-373(F)

# PRRNSF20220550



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**ANSI/TPI1 Quality Criteria, DSB-89 and BCS11 Building Component**

**Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



the**TRUSS**CO. INC.

Job <b>J1114706</b>	Truss <b>E2</b>	Truss Type <b>COMMON</b>	Qty <b>1</b>	Ply <b>1</b>	Arrow Lumber-Orting <b>I14248603</b>
Job Reference (optional)					

The Truss Company (Sumner), Sumner, WA - 98390,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 16:08:07 2022 Page 1  
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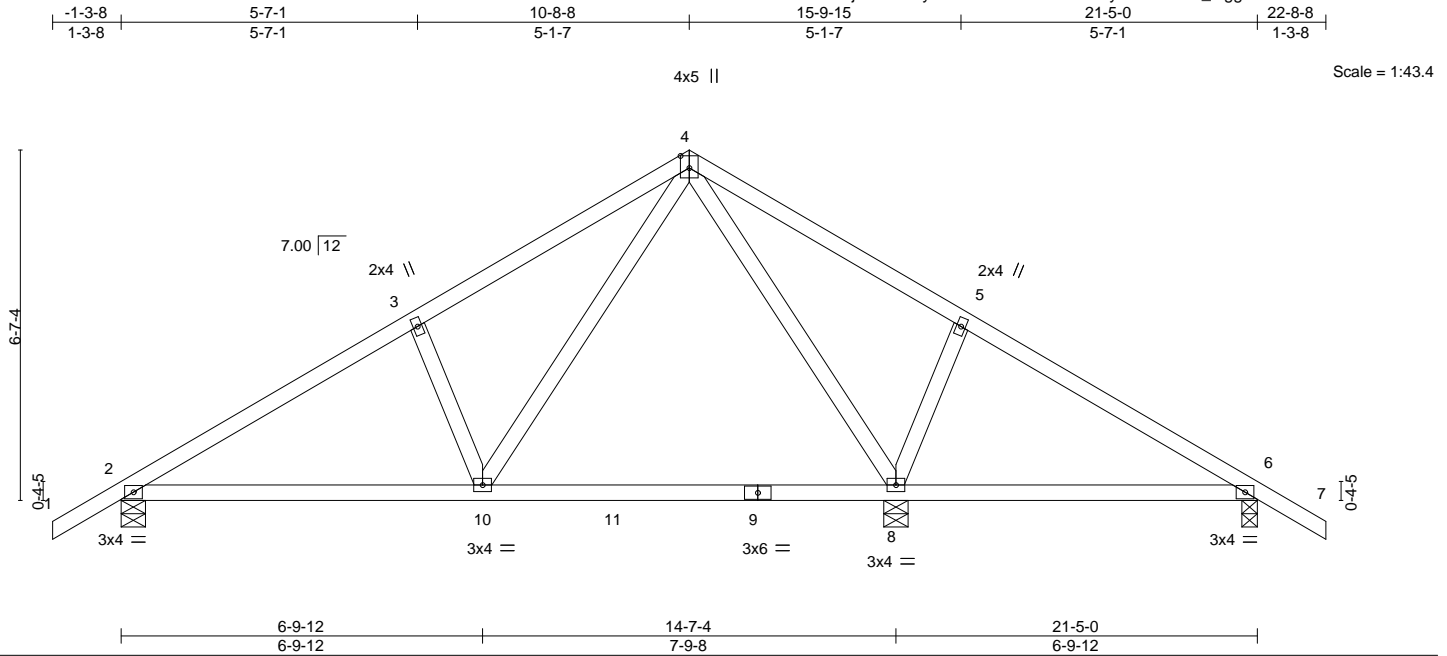


Plate Offsets (X,Y)-- [4:0-2-12,0-2-0]							
<b>LOADING</b> (psf)		<b>SPACING-</b>	2-0-0	<b>CSI.</b>		<b>DEFL.</b>	in (loc) l/defl L/d
TCLL 25.0		Plate Grip DOL	1.15	TC 0.49		Vert(LL)	-0.12 8-10 >999 360
(Roof Snow=25.0)		Lumber DOL	1.15	BC 0.43		Vert(CT)	-0.16 8-10 >999 240
TCDL 8.0		Rep Stress Incr	YES	WB 0.74		Horz(CT)	0.01 8 n/a n/a
BCLL 0.0 *		Code IRC2018/TPI2014		Matrix-SH			
BCDL 7.0							
						<b>PLATES</b>	<b>GRIP</b>
						MT20	185/148
						Weight: 82 lb	FT = 16%

**LUMBER-**  
TOP CHORD 2x4 HF No.2  
BOT CHORD 2x4 HF No.2  
WEBS 2x4 HF No.2 \*Except\*  
3-10,5-8: 2x4 HF Stud

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-4-8 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (size) 2=0-5-8, 8=0-5-8, 6=0-3-8  
Max Horz 2=-118(LC 8)  
Max Uplift 2=-57(LC 10), 8=-35(LC 11), 6=-42(LC 11)  
Max Grav 2=714(LC 17), 8=1067(LC 4), 6=304(LC 18)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-902/56, 3-4=-788/103, 4-5=-24/255  
BOT CHORD 2-10=-58/704  
WEBS 3-10=-431/128, 4-10=-69/666, 4-8=-699/56, 5-8=-458/130

- NOTES-** (9)
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 6.
  - 8) 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.
  - 9) All dimensions given in feet-inches-sixteenths (FFIIS) format.



**PRRNSF20220550**

March 30,2022

The Truss Company (Sumner), Sumner, WA - 98390, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 16:08:08 2022 Page 1  
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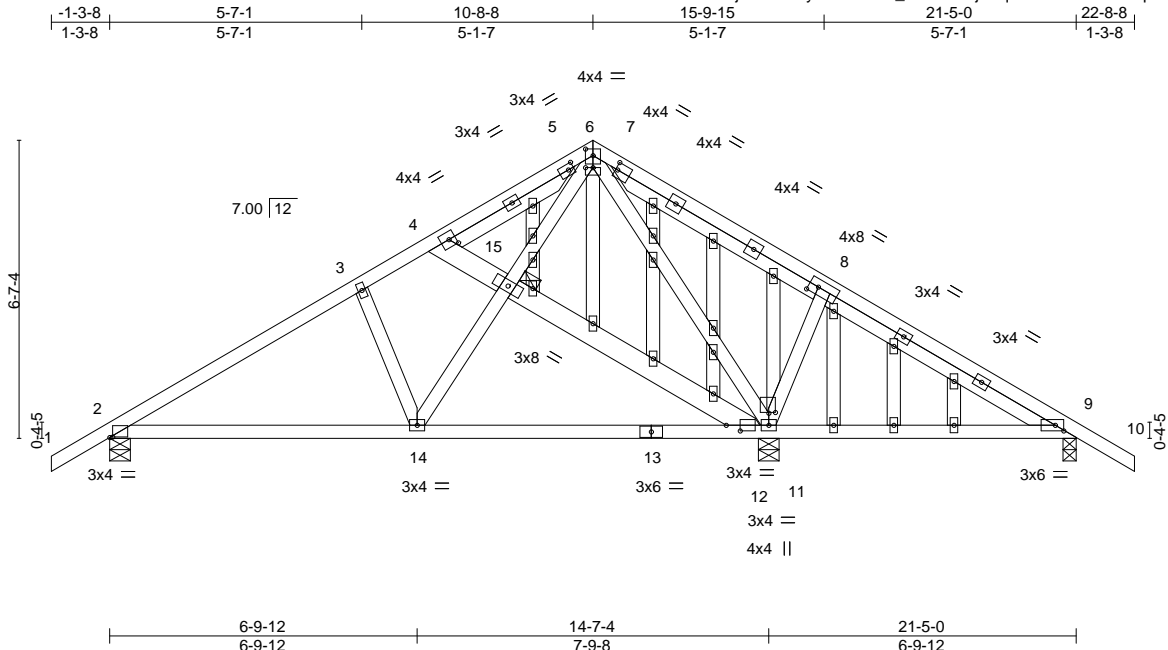


Plate Offsets (X,Y)-- [2:0-0-13,0-0-2], [4:0-1-12,0-2-0], [5:0-1-8,0-1-8], [6:0-2-0,0-1-12], [6:0-2-0,0-0-0], [7:0-0-8,0-2-0], [8:0-2-8,0-2-0], [9:0-2-4,0-1-8], [11:0-0-3,0-1-12], [12:0-3-12,0-1-8]

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc)	I/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0	Plate Grip DOL 1.15	TC 0.22	Vent(LL) -0.05 12-14	>999	360	MT20	185/148
(Roof Snow=25.0)	Lumber DOL 1.15	BC 0.32	Vent(CT) -0.09 12-14	>999	240		
TCDL 8.0	Rep Stress Incr YES	WB 0.58	Horz(CT) 0.01 11	n/a	n/a		
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-SH				Weight: 148 lb	FT = 16%
BCDL 7.0							

**LUMBER-**

TOP CHORD 2x4 DF No.1&Btr  
BOT CHORD 2x4 HF No.2  
WEBS 2x4 HF No.2 \*Except\*  
3-14,8-11: 2x4 HF Stud, 4-15,12-15: 2x6 DF SS  
OTHERS 2x4 HF Stud  
SLIDER Right 2x4 DF No.1&Btr 5-9-6

**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. Except: 6-0-0 oc bracing: 9-11.
JOINTS	1 Brace at Jt(s): 15

## REACTIONS.

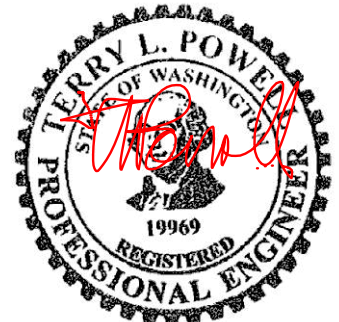
**INS.** All bearings 0-5-8 except (jt=length) 9=0-3-8.  
(lb) - Max Horz 2=118(LC 9)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 9 except 11=104(LC 11)  
Max Grav All reactions 250 lb or less at joint(s) except 2=707(LC 17), 12=298(LC 5),  
9=316(LC 18), 11=832(LC 18)

**FORCES.**

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=858/54, 3-4=716/78, 4-6=504/74  
 BOT CHORD 2-14=54/655, 12-14=15/354  
 WEBS 14-15=40/400, 6-15=40/400, 6-11=552/27, 8-11=481/135, 4-15=253/40,  
 12-15=252/39

**NOTES- (12)**

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCdL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCdL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9 except (jt=lb) 11=104.
- 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) All dimensions given in feet-inches-sixteenths (FFI/SS) format.



PRRNSF20220550

March 30, 2022



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**Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI1 Building Component**

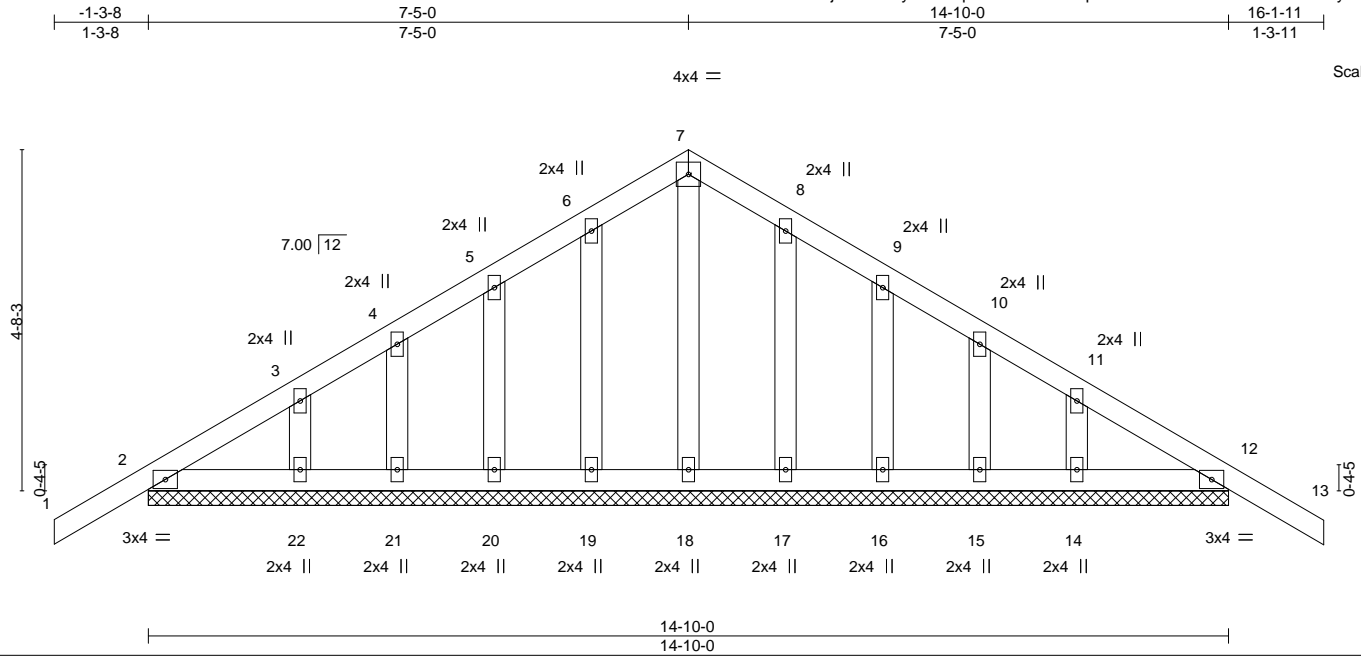
the**TRUSS**CO. INC.

Job <b>J1114706</b>	Truss <b>F1</b>	Truss Type <b>GABLE</b>	Qty <b>1</b>	Ply <b>1</b>	Arrow Lumber-Orting <b>I14248605</b>
Job Reference (optional)					

The Truss Company (Sumner), Sumner, WA - 98390,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 16:08:09 2022 Page 1

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Scale = 1:31.6

LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.11	in	(loc)	l/defl	L/d	MT20	185/148
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.02	0.00	13	n/r	120		
TCDL	8.0	Rep Stress Incr	YES	WB	0.05	0.00	13	n/r	90		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P		Horz(CT)	0.00	12	n/a		
BCDL	7.0									Weight: 66 lb	FT = 16%

**LUMBER-**  
TOP CHORD 2x4 HF No.2  
BOT CHORD 2x4 HF No.2  
OTHERS 2x4 HF Stud

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

**REACTIONS.** All bearings 14-10-0.  
(lb) - Max Horz 2=-85(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 19, 20, 21, 22, 17, 16, 15, 14  
Max Grav All reactions 250 lb or less at joint(s) 2, 12, 18, 19, 20, 21, 22, 17, 16, 15, 14

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

- NOTES-** (12)
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
  - 4) Unbalanced snow loads have been considered for this design.
  - 5) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
  - 6) Gable requires continuous bottom chord bearing.
  - 7) Gable studs spaced at 1-4-0 oc.
  - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 19, 20, 21, 22, 17, 16, 15, 14.
  - 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) All dimensions given in feet-inches-sixteenths (FFI/SS) format.



**PRRNSF20220550**

March 30, 2022

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**Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



Job J1114706	Truss HRA	Truss Type CORNER RAFTER	Qty 1	Ply 1	Arrow Lumber-Orting	I14248606
Job Reference (optional)						

The Truss Company (Sumner), Sumner, WA - 98390,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 16:08:10 2022 Page 1  
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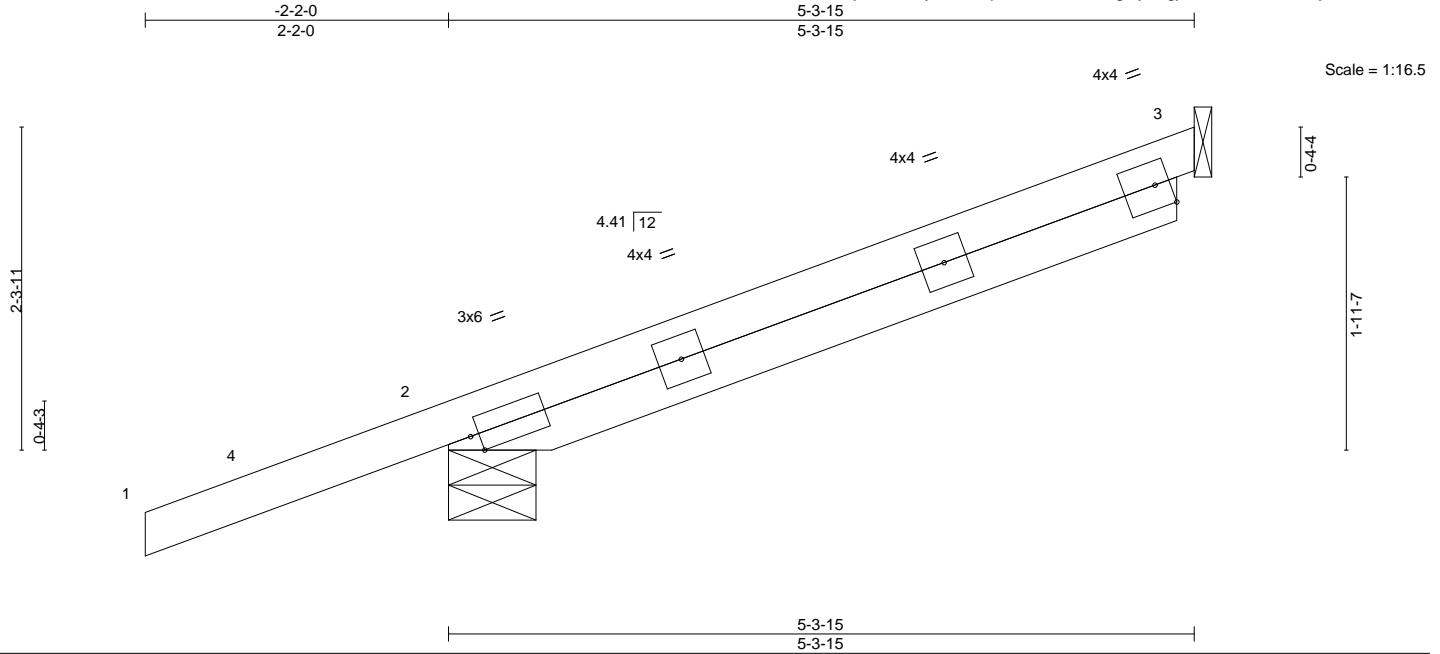


Plate Offsets (X,Y)-- [2:0-0-12,Edge]											
<b>LOADING</b> (psf)		<b>SPACING-</b>	2-0-0	<b>CSI.</b>		<b>DEFL.</b>	in (loc)	I/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 25.0		Plate Grip DOL	1.15	TC 0.26		Vert(LL)	-0.02 2-3	>999	360	MT20	220/195
(Roof Snow=25.0)		Lumber DOL	1.15	BC 0.00		Vert(CT)	-0.03 2-3	>999	240		
TCDL 8.0		Rep Stress Incr	NO	WB 0.00		Horz(CT)	-0.00 3	n/a	n/a		
BCLL 0.0 *		Code IRC2018/TPI2014		Matrix-P						Weight: 18 lb	FT = 16%
BCDL 7.0											

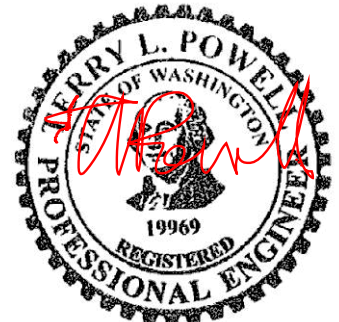
**LUMBER-**  
TOP CHORD 2x4 DF No.1&Btr

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-3-15 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 2=0-7-8, 3=Mechanical  
Max Horz 2=73(LC 6)  
Max Uplift 2=-100(LC 6), 3=-45(LC 10)  
Max Grav 2=472(LC 16), 3=227(LC 16)

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

- NOTES-** (9)
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) \* This truss has been designed for a 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.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 3.
  - 8) 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.
  - 9) All dimensions given in feet-inches-sixteenths (FFIIS) format.



PRRNSF20220550

March 30,2022

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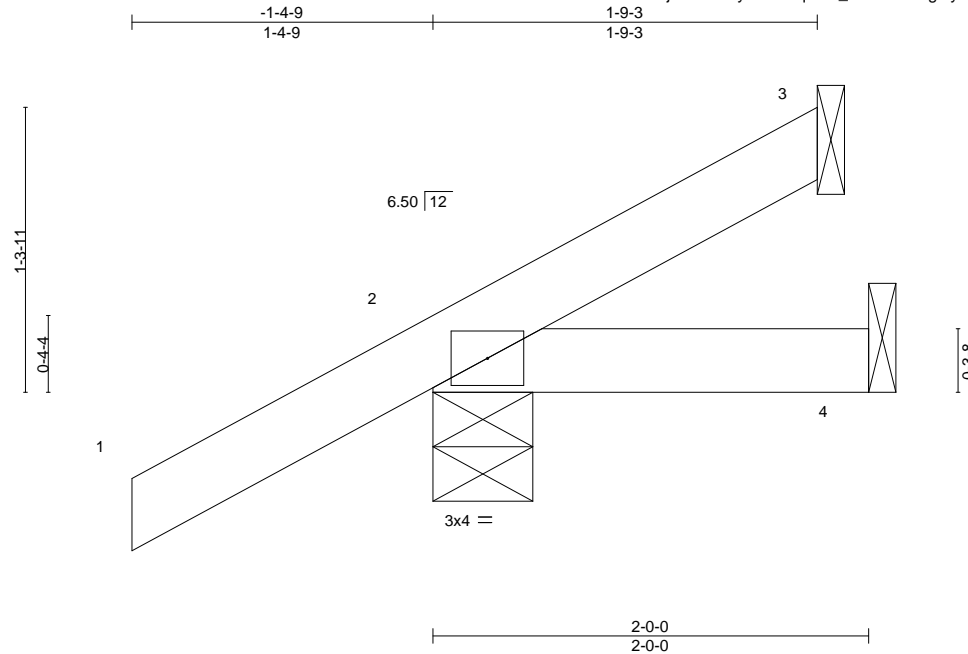


Job <b>J1114706</b>	Truss <b>J22</b>	Truss Type <b>Jack-Open</b>	Qty <b>1</b>	Ply <b>1</b>	Arrow Lumber-Orting <b>I14248607</b>
Job Reference (optional)					

The Truss Company (Sumner),

Sumner, WA - 98390,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 16:08:10 2022 Page 1  
ID:hrXxBetUP3sEeUjoY7xaLTy75TH-lqTkm\_3JK4PmzzgGyS4gv6ZetoWnYNY0O6jOzW0z3



Scale = 1:10.6

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15	TC 0.20	in (loc) l/defl L/d	MT20	185/148
TCDL 8.0	Lumber DOL 1.15	BC 0.03	Vert(LL) -0.00 2 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Vert(CT) -0.00 2-4 >999 240		
BCDL 7.0	Code IRC2018/TPI2014	Matrix-P	Horz(CT) -0.00 3 n/a n/a	Weight: 7 lb	FT = 16%

#### LUMBER-

TOP CHORD 2x4 HF No.2  
BOT CHORD 2x4 HF No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-9-3 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical  
Max Horz 2=42(LC 10)  
Max Uplift 3=-26(LC 16), 2=-28(LC 10)  
Max Grav 3=25(LC 17), 2=294(LC 17), 4=32(LC 5)

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

#### NOTES-

- Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 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.
- All dimensions given in feet-inches-sixteenths (FFI/ISS) format.



**PRRNSF20220550**

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**Safety Information**





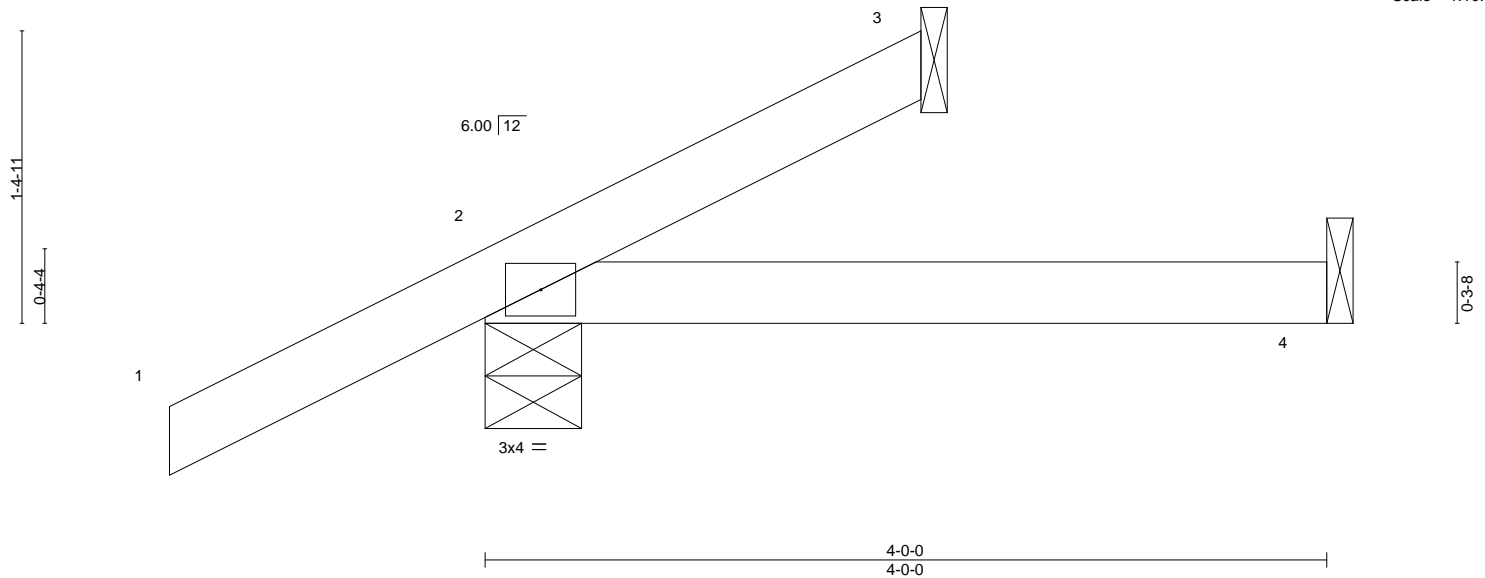
Job <b>J1114706</b>	Truss <b>J42</b>	Truss Type <b>Jack-Open</b>	Qty <b>1</b>	Ply <b>1</b>	Arrow Lumber-Orting <b>I14248608</b>
Job Reference (optional)					

The Truss Company (Sumner), Sumner, WA - 98390,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 16:08:11 2022 Page 1  
ID:hrXxBetUP3sEeUjoY7xaLTy75TH-m117zK4x4OXda6FSW9bvG6jVH7JW\_dIF2rGBqzW0z2

-1-6-0 2-0-14  
1-6-0 2-0-14

Scale = 1:10.9



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.29	in	(loc)	I/defl	L/d	MT20	185/148
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.12	Vert(LL)	-0.01	2-4	>999		
TCDL	8.0	Rep Stress Incr	YES	WB	0.00	Vert(CT)	-0.02	2-4	>999		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P		Horz(CT)	-0.00	3	n/a		
BCDL	7.0									Weight: 9 lb	FT = 16%

**LUMBER-**  
TOP CHORD 2x4 HF No.2  
BOT CHORD 2x4 HF No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 2-0-14 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 3=Mechanical, 2=0-5-8, 4=Mechanical  
Max Horz 2=43(LC 10)  
Max Uplift 3=-41(LC 16), 2=-27(LC 10)  
Max Grav 3=7(LC 6), 2=366(LC 17), 4=63(LC 5)

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

- NOTES-** (10)
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
  - 3) Unbalanced snow loads have been considered for this design.
  - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
  - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 10) All dimensions given in feet-inches-sixteenths (FFIISS) format.



**PRRNSF20220550**

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**Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

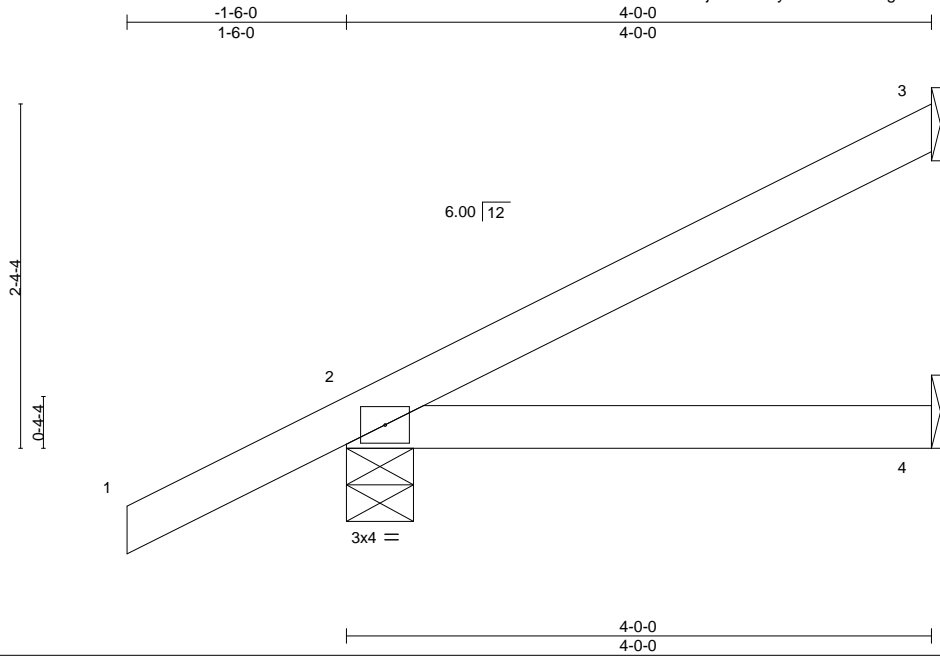


Job <b>J1114706</b>	Truss <b>J44</b>	Truss Type <b>Jack-Open</b>	Qty <b>15</b>	Ply <b>1</b>	Arrow Lumber-Orting <b>I14248609</b>
Job Reference (optional)					

The Truss Company (Sumner),

Sumner, WA - 98390,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 16:08:12 2022 Page 1  
ID:hrXxBetUP3sEeUjoY7xaLTy75TH-EDbVBg4ZriUCGqe3s78oKBuyhTYFRtrUibqkHhW0z1



Scale = 1:15.8

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	TC 0.31 BC 0.12 WB 0.00 Matrix-P	in (loc) l/defl L/d Vert(LL) -0.01 2-4 >999 360 Vert(CT) -0.02 2-4 >999 240 Horz(CT) -0.00 3 n/a n/a	MT20	185/148
TCDL 8.0					
BCLL 0.0 *					
BCDL 7.0					
				Weight: 12 lb	FT = 16%

#### LUMBER-

TOP CHORD 2x4 HF No.2  
BOT CHORD 2x4 HF No.2

#### BRACING-

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

#### REACTIONS.

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical  
Max Horz 2=69(LC 10)  
Max Uplift 3=-39(LC 10), 2=-30(LC 10)  
Max Grav 3=151(LC 17), 2=441(LC 17), 4=63(LC 5)

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

#### NOTES-

- Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 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.
- All dimensions given in feet-inches-sixteenths (FFI/ISS) format.



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**Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



Job <b>J1114706</b>	Truss <b>V1</b>	Truss Type <b>GABLE</b>	Qty <b>1</b>	Ply <b>1</b>	Arrow Lumber-Orting <b>I14248610</b>
Job Reference (optional)					

The Truss Company (Sumner), Sumner, WA - 98390,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 16:08:14 2022 Page 1  
ID:hrXxBetUP3sEeUjoY7xaLTy75TH-AcjFbM6pNjvCRa\_1BH9cttHHPV9FjKg8x?4xo9zW0z?

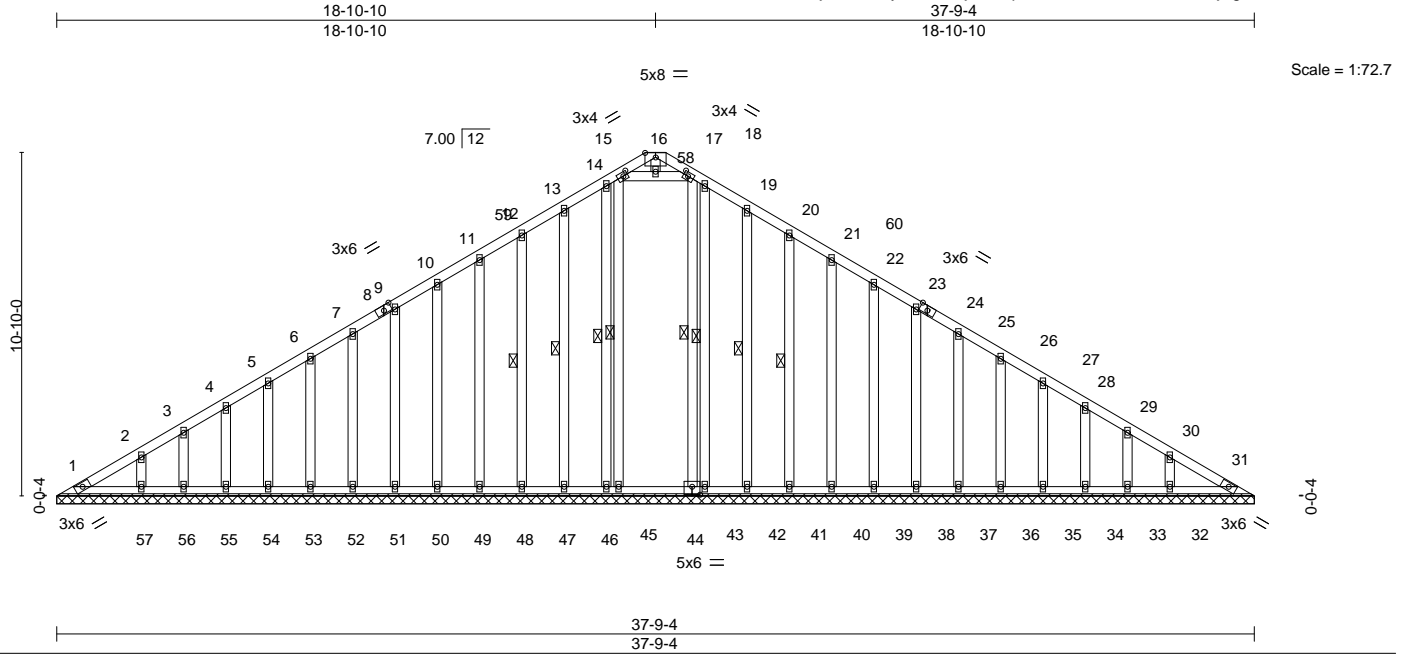


Plate Offsets (X,Y)-- [2:0-0-0,0-0-0], [3:0-0-0,0-0-0], [4:0-0-0,0-0-0], [5:0-0-0,0-0-0], [6:0-0-0,0-0-0], [7:0-0-0,0-0-0], [8:0-3-0,Edge], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0], [11:0-0-0,0-0-0], [12:0-0-0,0-0-0], [13:0-0-0,0-0-0], [14:0-0-0,0-0-0], [15:0-1-12,0-1-8], [17:0-1-12,0-1-8], [24:0-3-0,Edge], [44:0-3-0,0-3-0]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0 (Roof Snow=25.0)	2-0-0	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	185/148
TCDL 8.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.11	Horz(CT)	0.01	31	n/a		
BCDL 7.0	Rep Stress Incr YES	Matrix-SH					Weight: 267 lb	FT = 16%
	Code IRC2018/TPI2014							

**LUMBER-**  
TOP CHORD 2x4 HF No.2  
BOT CHORD 2x4 HF No.2  
WEBS 2x4 HF Stud  
OTHERS 2x4 HF Stud \*Except\*  
15-45,17-44,21-40,20-41,19-42,18-43,11-49,12-48,13-47,14-46: 2x4 HF No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 15-45, 17-44, 20-41, 19-42, 18-43, 12-48, 13-47, 14-46

**REACTIONS.** All bearings 37-9-4.  
(lb) - Max Horz 1=180(LC 7)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 47, 46, 31  
Max Grav All reactions 250 lb or less at joint(s) 1, 45, 44, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 47, 46, 31

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

- NOTES-** (10)  
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33  
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10  
3) Unbalanced snow loads have been considered for this design.  
4) All plates are 2x4 MT20 unless otherwise indicated.  
5) Gable requires continuous bottom chord bearing.  
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.  
7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.  
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 47, 46, 31.  
9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.  
10) All dimensions given in feet-inches-sixteenths (FFI/SS) format.



**PRRNSF20220550**

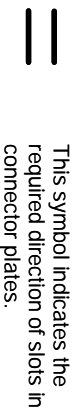
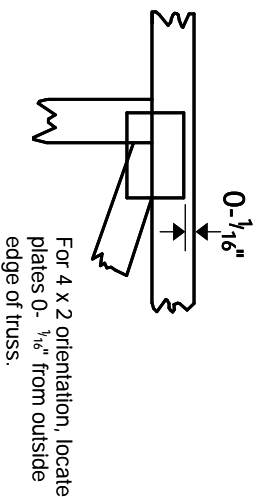
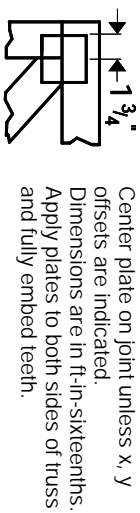
March 30,2022

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**Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



# Symbols

## PLATE LOCATION AND ORIENTATION



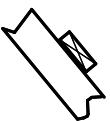
\* Plate location details available in MITtek 20/20 software or upon request.

## PLATE SIZE

4 X 4

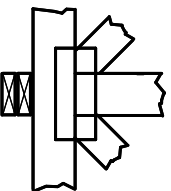
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T, I or Eliminator bracing if indicated.

## BEARING

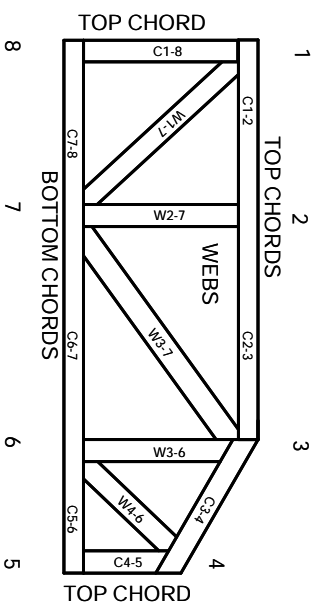


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

### Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing.  
BCS11: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System



JOINTS ARE GENERALLY NUMBERED COUNTERCLOCKWISE 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, ESR-5243, 9604B, 9730, 95-43, 96-31, 9667A  
NER-487, NER-561  
95110, 84-32, 96-67, ER-3907, 9432A

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# 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 BCS11.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T, I, or Eliminator 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/TP1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1.
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/TP1 Quality Criteria.

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