

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

Re: J1114706F
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: I14248573 thru I14248584

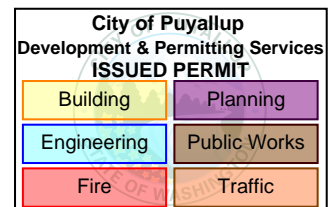
My license renewal date for the state of Washington is August 20, 2022.

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



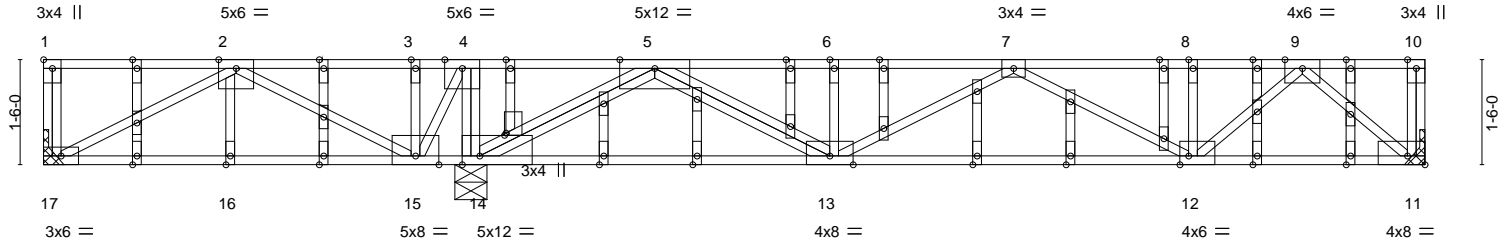
The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI 1.

PRRNSF20220550

Job J1114706F	Truss F01	Truss Type GABLE	Qty 1	Ply 1	Arrow Lumber-Orting I14248573
Job Reference (optional)					

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 15:47:59 2022 Page 1
ID:hrXxBetUP3sEeUjoY7xaLTy75TH-FsoxbvPhW?qbAsbWWcsh8XSRqjFWYjOIYUF8f4zW1G_



1-4-0	2-8-0	4-0-0	6-1-4	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	19-8-12
1-4-0	1-4-0	1-4-0	2-1-4	0-6-12	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-0-12
Plate Offsets (X,Y)-- [1:Edge,0-1-8], [11:Edge,0-1-8], [12:0-1-8,Edge], [14:0-3-0,Edge], [26:0-0-6,0-0-4]														

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.90	Vert(LL)	-0.09 12-13	>999	480	MT20	185/148
TCDL 10.0	Lumber DOL	1.00	BC 0.97	Vert(CT)	-0.20 12-13	>793	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.52	Horz(CT)	0.03 11	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-SH					Weight: 120 lb	FT = 20%F, 9%E

LUMBER-
TOP CHORD 2x4 DF No.1&Btr(flat)
BOT CHORD 2x4 HF No.2(flat)
WEBS 2x4 DF Stud(flat)
OTHERS 2x4 DF Stud(flat)

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

REACTIONS. (size) 17=Mechanical, 11=Mechanical, 14=0-5-8
Max Uplift 17=-313(LC 4)
Max Grav 17=531(LC 3), 11=1429(LC 4), 14=3354(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/1985, 3-4=0/1985, 4-5=0/2632, 5-6=-2346/0, 6-7=-2376/0, 7-8=-2464/0, 8-9=-2464/0
BOT CHORD 16-17=-728/516, 15-16=-728/516, 14-15=-2469/0, 13-14=-38/501, 12-13=0/3000, 11-12=0/1471
WEBS 4-14=-1612/0, 2-17=-587/828, 2-15=-1837/0, 3-15=-452/23, 4-15=0/1362, 5-14=-3418/0, 5-13=0/2143, 6-13=-589/0, 7-13=-744/0, 7-12=-608/0, 8-12=-495/0, 9-12=0/1323, 9-11=-1928/0

NOTES- (9)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 1.5x4 MT20 unless otherwise indicated.
3) Gable studs spaced at 1-4-0 oc.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 313 lb uplift at joint 17.
6) 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.
7) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
8) CAUTION, Do not erect truss backwards.
9) All dimensions given in feet-inches-sixteenths (FFIIS) format.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 11-17=-20, 1-10=-233



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 J1114706F	Truss F02	Truss Type FLOOR	Qty 3	Ply 1	Arrow Lumber-Orting 114248574
Job Reference (optional)					

The Truss Company (Sumner),

Sumner, WA - 98390,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 15:48:00 2022 Page 1

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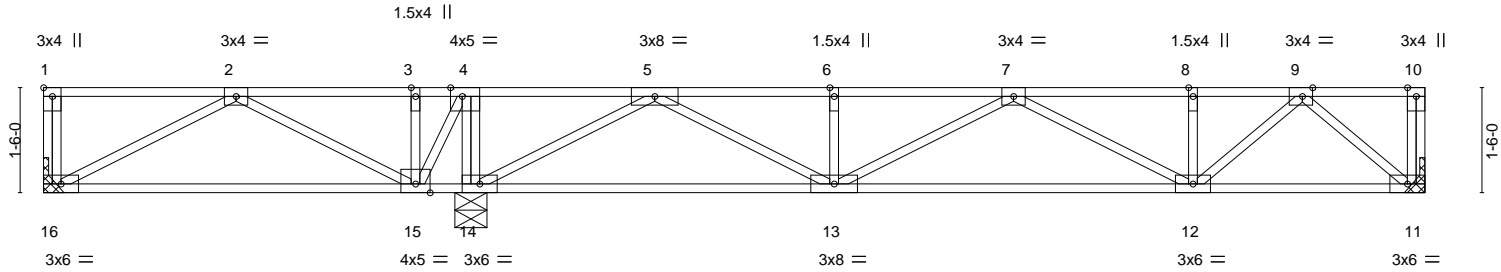


Plate Offsets (X,Y)--	[1:Edge,0-1-8], [4:0-2-0,Edge], [9:0-1-12,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.51	Vert(LL)	-0.06 12-13	>999	480	MT20	185/148
TCDL 10.0	Plate Grip DOL 1.00	BC 0.55	Vert(CT)	-0.14 12-13	>999	360		
BCLL 0.0	Lumber DOL 1.00	WB 0.43	Horz(CT)	0.02 11	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH					Weight: 91 lb	FT = 20%F, 9%E
	Code IRC2018/TPI2014							

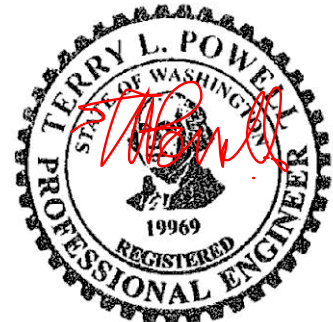
LUMBER-
TOP CHORD 2x4 HF No.2(flat)
BOT CHORD 2x4 HF No.2(flat)
WEBS 2x4 DF Stud(flat)

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

REACTIONS. (size) 16=Mechanical, 11=Mechanical, 14=0-5-8
Max Uplift 16=148(LC 4)
Max Grav 16=246(LC 3), 11=692(LC 4), 14=1579(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=0/904, 3-4=0/904, 4-5=0/1171, 5-6=-1234/0, 6-7=-1234/0, 7-8=-1211/0, 8-9=-1211/0
BOT CHORD 15-16=-398/194, 14-15=-1171/0, 13-14=0/332, 12-13=0/1470, 11-12=0/710
WEBS 4-14=-785/0, 2-16=-219/449, 2-15=-792/0, 4-15=0/683, 5-14=-1629/0, 5-13=0/1038, 6-13=-250/0, 7-13=-285/0, 7-12=-294/0, 9-12=0/666, 9-11=-931/0

NOTES- (7)
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint 16.
4) 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.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.
7) All dimensions given in feet-inches-sixteenths (FFIIS) format.



PRRNSF20220550

March 30,2022

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Job J1114706F	Truss F03	Truss Type FLOOR	Qty 4	Ply 1	Arrow Lumber-Orting I14248575
The Truss Company (Sumner), Sumner, WA - 98390, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 15:48:00 2022 Page 1 ID:hrXxBetUP3sEeUjoY7xaLTy75TH-j2MjPQJHJySo0Ai3KNwgk?kR7ehHCpSn8?hAXzW1Fz					

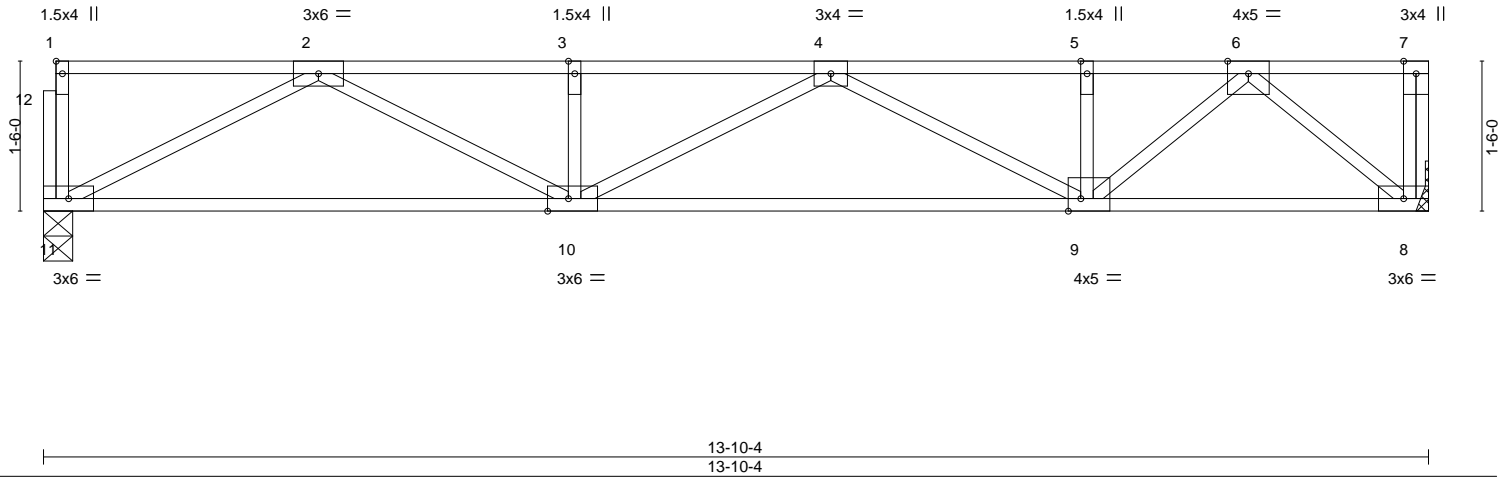


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [9:0-1-8,Edge], [10:0-2-8,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.40	Vert(LL)	-0.08 9-10	>999	480	MT20	185/148
TCDL 10.0	Lumber DOL	1.00	BC 0.78	Vert(CT)	-0.20 10-11	>836	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.39	Horz(CT)	0.04 8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 63 lb	FT = 20%F, 9%E

LUMBER-
TOP CHORD 2x4 HF No.2(flat)
BOT CHORD 2x4 HF No.2(flat)
WEBS 2x4 DF Stud(flat)

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

REACTIONS. (size) 11=0-3-8, 8=Mechanical
Max Grav 11=819(LC 1), 8=958(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2011/0, 3-4=-2011/0, 4-5=-1596/0, 5-6=-1596/0
BOT CHORD 10-11=0/1294, 9-10=0/2055, 8-9=0/973
WEBS 2-11=-1455/0, 2-10=0/814, 4-9=-520/0, 6-9=0/819, 6-8=-1258/0

NOTES- (6)
1) Attach ribbon block to truss with 3-10d nails applied to flat face.
2) Refer to girder(s) for truss to truss connections.
3) 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.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.
6) All dimensions given in feet-inches-sixteenths (FFI/ISS) format.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-11=-20, 1-6=-100, 6-7=-190



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



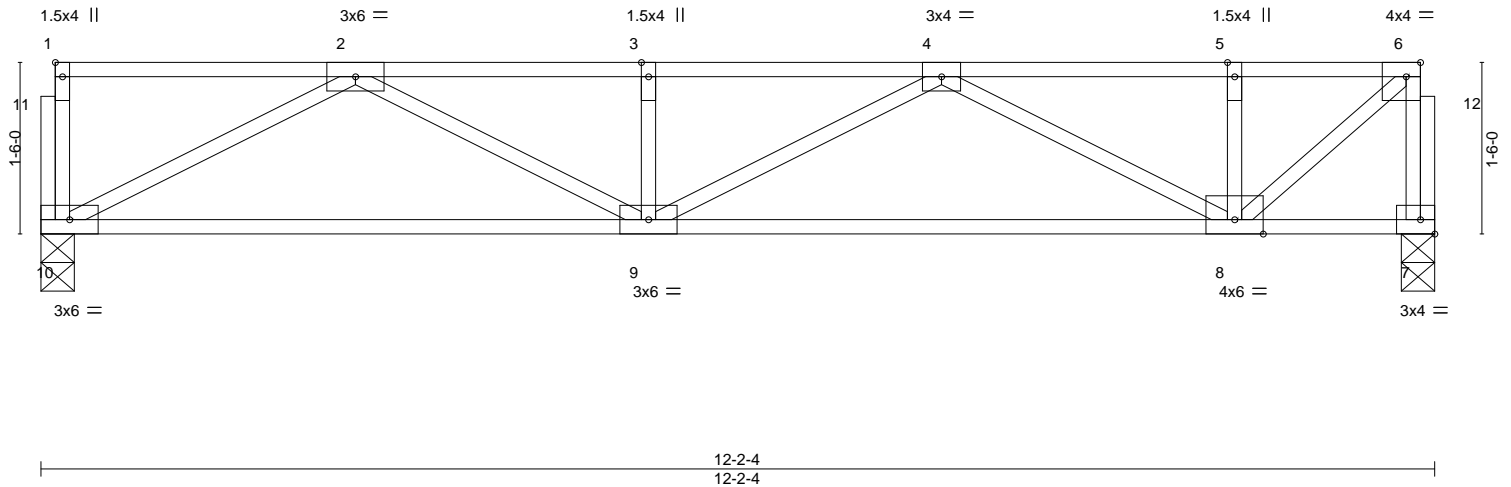
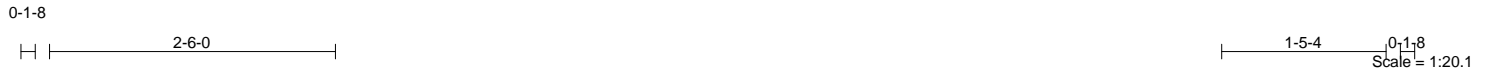


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [6:0-1-8,Edge]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES	GRIP		
TCLL	40.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.05	9	>999	480	MT20	185/148
TCDL	10.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.17	9-10	>841	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 56 lb	FT = 20%F, 9%E

LUMBER-

TOP CHORD	2x4 HF No.2(flat)
BOT CHORD	2x4 HF No.2(flat)
WEBS	2x4 DF Stud(flat)

BRACING-

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

REACTIONS.

(size) 7=0-3-8, 10=0-3-8
Max Grav 7=710(LC 1), 10=710(LC 1)

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

TOP CHORD 6-7=-711/0, 2-3=-1601/0, 3-4=-1601/0, 4-5=-782/0, 5-6=-782/0
BOT CHORD 9-10=0/1086, 8-9=0/1438
WEBS 2-10=-1221/0, 2-9=0/584, 4-8=-745/0, 6-8=0/999

NOTES- (4)

- 1) Attach ribbon block to truss with 3-10d nails applied to flat face.
- 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.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) All dimensions given in feet-inches-sixteenths (FIISS) format.



PRRNSF20220550

March 30, 2022



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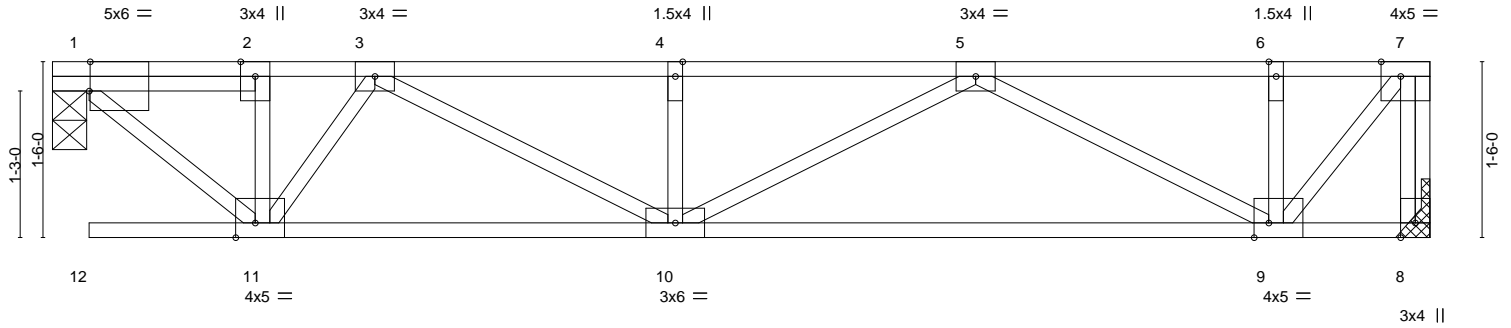
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the**TRUSS**CO. INC.

Job J1114706F	Truss F05	Truss Type Floor	Qty 4	Ply 1	Arrow Lumber-Orting I14248577
Job Reference (optional)					

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 15:48:02 2022 Page 1
ID:hrXxBetUP3sEeUjoY7xaLTy75TH-fRU3ExRapwCA1JK5BIPom9460wPjI7_IFRUoFPzW1Fx



0-3-12	1-8-12	11-9-0
0-3-12	1-5-0	10-0-4

Plate Offsets (X,Y)-- [1:0-0-2,Edge], [7:0-2-0,Edge], [9:0-1-8,Edge], [11:0-2-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.26	Vert(LL)	-0.04	10	>999	480	MT20	185/148
TCDL 10.0	Lumber DOL	1.00	BC 0.49	Vert(CT)	-0.13	9-10	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.34	Horz(CT)	0.00	8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 56 lb	FT = 20%F, 9%E

LUMBER-
TOP CHORD 2x4 HF No.2(flat)
BOT CHORD 2x4 HF No.2(flat)
WEBS 2x4 DF Stud(flat)

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

REACTIONS. (size) 8=Mechanical, 1=0-3-8
Max Grav 8=679(LC 1), 1=679(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 7-8=-699/0, 1-2=-651/0, 2-3=-647/0, 3-4=-1438/0, 4-5=-1438/0, 5-6=-582/0, 6-7=-582/0
BOT CHORD 10-11=0/974, 9-10=0/1254
WEBS 7-9=0/891, 5-9=-763/0, 4-10=-260/0, 3-10=0/526, 3-11=-572/0, 1-11=0/865

- NOTES-** (6)
- 1) Refer to girder(s) for truss to truss connections.
 - 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.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 4) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 5) CAUTION, Do not erect truss backwards.
 - 6) All dimensions given in feet-inches-sixteenths (FFIIS) format.



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



Job J1114706F	Truss F06	Truss Type FLOOR	Qty 1	Ply 1	Arrow Lumber-Orting 114248578
Job Reference (optional)					

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 15:48:02 2022 Page 1
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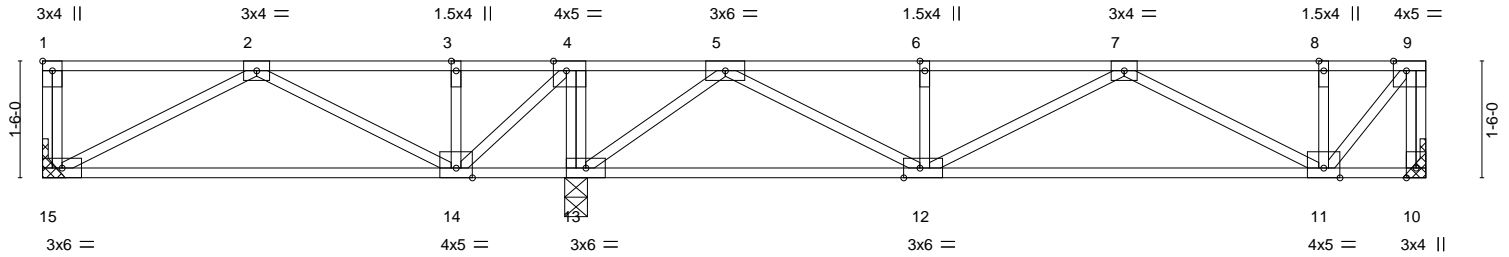
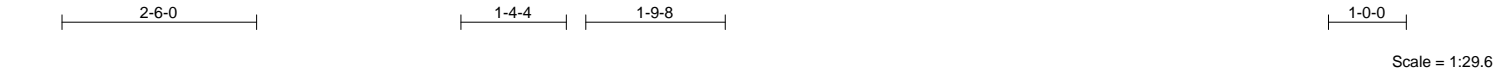


Plate Offsets (X,Y)--	[1:Edge,0-1-8], [4:0-2-0,Edge], [9:0-2-0,Edge], [12:0-2-8,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.38	Vert(LL)	-0.03 11-12	>999	480	MT20	185/148
TCDL 10.0	Plate Grip DOL 1.00	BC 0.42	Vert(CT)	-0.15 14-15	>553	360		
BCLL 0.0	Lumber DOL 1.00	WB 0.32	Horz(CT)	0.01 10	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH					Weight: 83 lb	FT = 20%F, 9%E
	Code IRC2018/TPI2014							

LUMBER-
TOP CHORD 2x4 HF No.2(flat)
BOT CHORD 2x4 HF No.2(flat)
WEBS 2x4 DF Stud(flat)

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

REACTIONS. (size) 10=Mechanical, 15=Mechanical, 13=0-3-8
Max Uplift 15=-10(LC 4)
Max Grav 10=557(LC 4), 15=323(LC 3), 13=1325(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 9-10=-574/0, 2-3=-108/389, 3-4=-108/389, 4-5=0/794, 5-6=-887/0, 6-7=-887/0, 7-8=-474/0, 8-9=-474/0
BOT CHORD 14-15=-138/339, 13-14=-794/0, 11-12=0/926
WEBS 4-13=-661/0, 2-15=-383/156, 2-14=-451/0, 4-14=0/760, 9-11=0/726, 7-11=-513/0, 6-12=-258/0, 5-12=0/837, 5-13=-1078/0

NOTES- (7)
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 15.
4) 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.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.
7) 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.



Job J1114706F	Truss F07	Truss Type FLOOR	Qty 6	Ply 1	Arrow Lumber-Orting I14248579
Job Reference (optional)					

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 15:48:03 2022 Page 1
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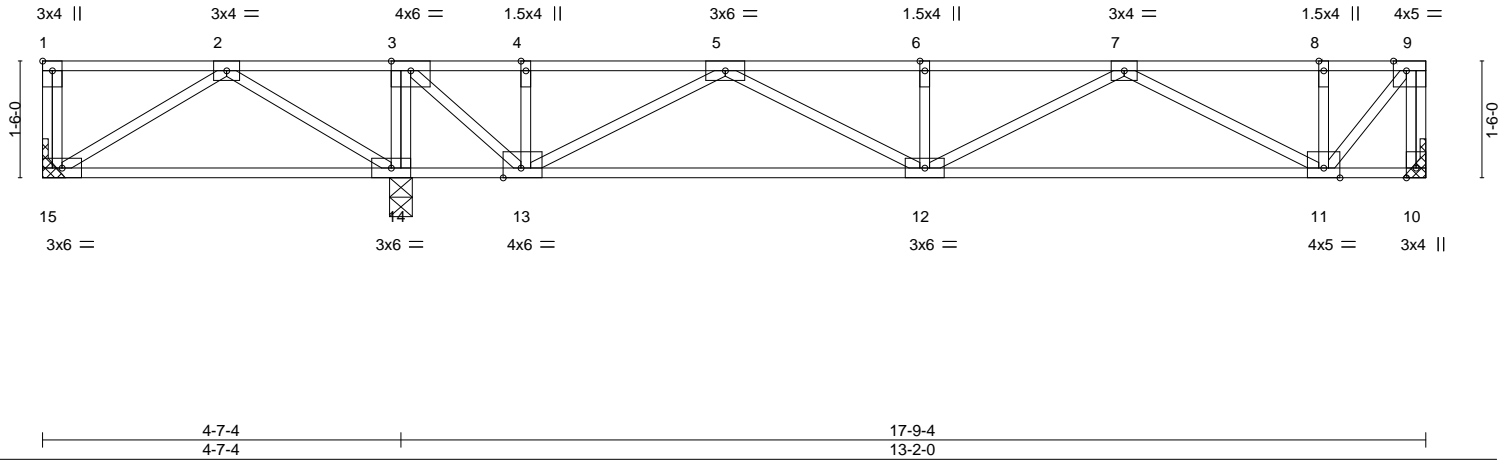
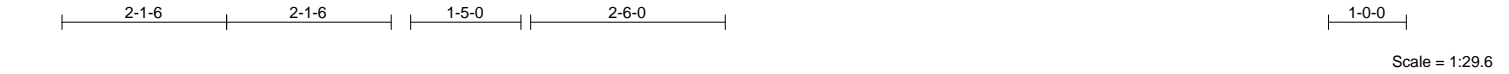


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [9:0-2-0,Edge], [13:0-2-12,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.48	Vert(LL)	-0.05 12	>999	480	MT20	185/148
TCDL 10.0	Plate Grip DOL 1.00	BC 0.50	Vert(CT)	-0.13 12-13	>999	360		
BCLL 0.0	Lumber DOL 1.00	WB 0.48	Horz(CT)	0.01 10	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH					Weight: 83 lb	FT = 20%F, 9%E
	Code IRC2018/TPI2014							

LUMBER-
TOP CHORD 2x4 HF No.2(flat)
BOT CHORD 2x4 HF No.2(flat)
WEBS 2x4 DF Stud(flat)

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

REACTIONS. (size) 10=Mechanical, 15=Mechanical, 14=0-3-8
Max Uplift 15=-259(LC 4)
Max Grav 10=663(LC 4), 15=139(LC 3), 14=1532(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 9-10=-678/0, 2-3=0/1113, 5-6=-1374/0, 6-7=-1374/0, 7-8=-564/0, 8-9=-564/0
BOT CHORD 14-15=-509/25, 13-14=-1113/0, 12-13=0/862, 11-12=0/1215
WEBS 3-14=-984/0, 2-15=-29/597, 2-14=-900/0, 9-11=0/863, 7-11=-739/0, 6-12=-251/0, 5-12=0/587, 5-13=-1150/0, 3-13=0/1253

NOTES- (7)
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 259 lb uplift at joint 15.
4) 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.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.
7) 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.



8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 15:48:04 2022 Page 1
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Job J1114706F	Truss F09	Truss Type FLOOR GIRDER	Qty 1	Ply 1	Arrow Lumber-Orting	I14248581
The Truss Company (Sumner), Sumner, WA - 98390,						Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 15:48:05 2022 Page 1
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2-6-0 2-5-12

Scale = 1:15.4

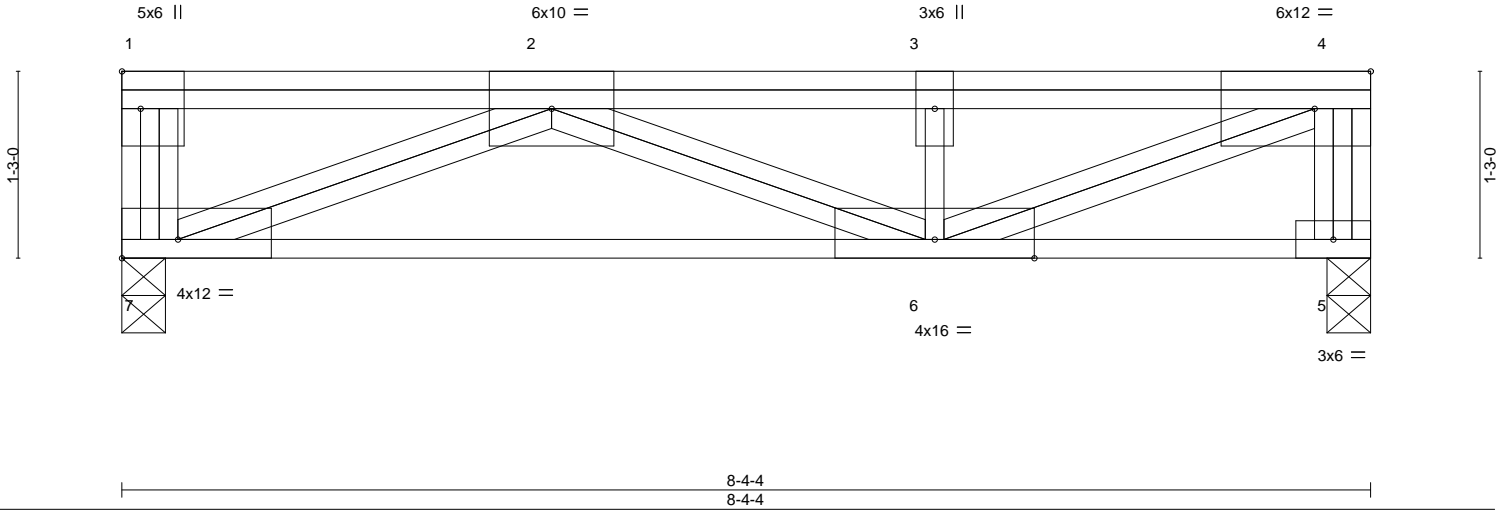


Plate Offsets (X,Y)-- [4:0-4-8,Edge], [7:Edge,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.70	Vert(LL)	-0.05	6-7	>999	480	MT20	185/148
TCDL 10.0	Lumber DOL	1.00	BC 0.80	Vert(CT)	-0.17	6-7	>569	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.72	Horz(CT)	0.02	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 61 lb	FT = 20%F, 9%E

LUMBER-
TOP CHORD 2x4 HF No.2(flat)
BOT CHORD 2x4 DF No.1&Btr(flat)
WEBS 2x4 DF Stud(flat)

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

REACTIONS. (size) 7=0-3-8, 5=0-3-8
Max Grav 7=1885(LC 1), 5=1885(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-7=-510/0, 4-5=-1871/0, 2-3=-3484/0, 3-4=-3485/0
BOT CHORD 6-7=0/3364
WEBS 2-7=-3617/0, 3-6=-1306/0, 4-6=0/3740

NOTES- (3)
1) 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.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
3) All dimensions given in feet-inches-sixteenths (FFI/ISS) format.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-7=-20, 1-4=-453



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



Job J1114706F	Truss F10	Truss Type FLOOR	Qty 1	Ply 1	Arrow Lumber-Orting	I14248582
The Truss Company (Sumner), Sumner, WA - 98390,						Job Reference (optional)

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 15:48:06 2022 Page 1
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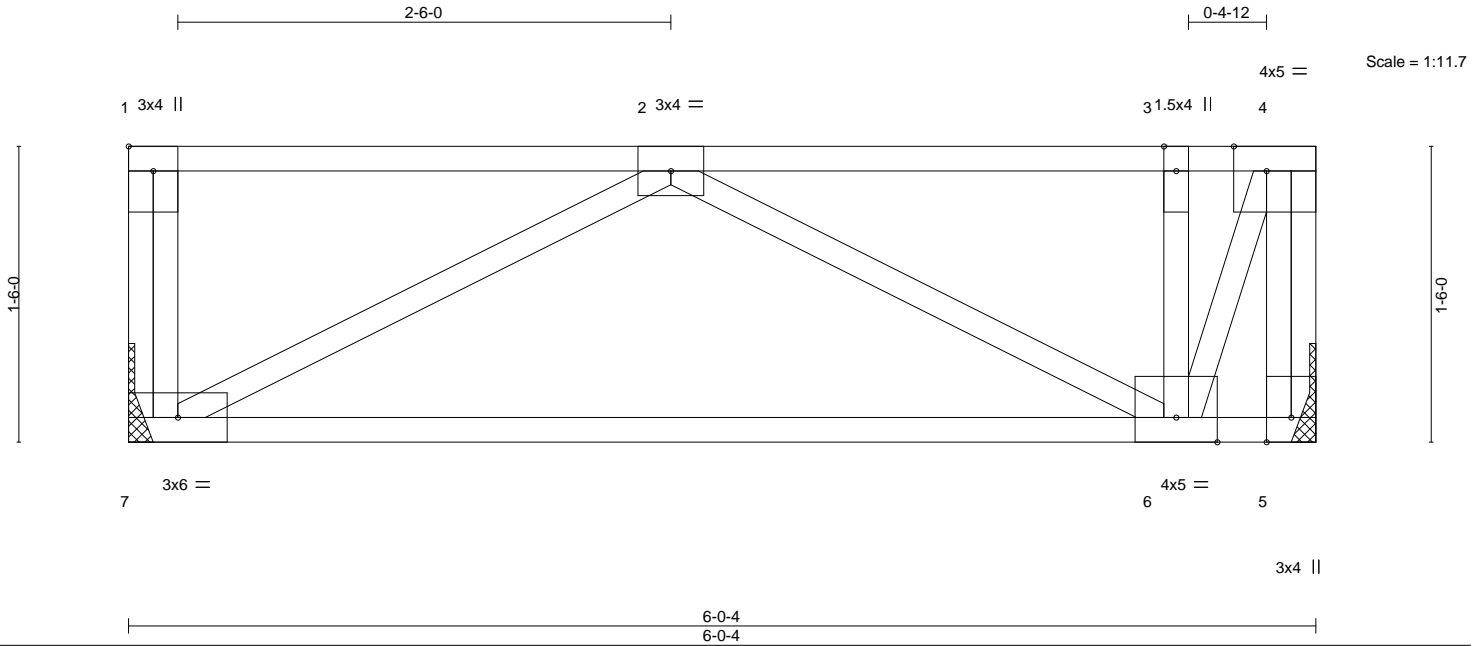


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [4:0-2-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.33	Vert(LL)	-0.00	6-7	>999	480	MT20	185/148
TCDL 10.0	Lumber DOL	1.00	BC 0.39	Vert(CT)	-0.13	6-7	>549	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.20	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 32 lb	FT = 20%F, 9%E

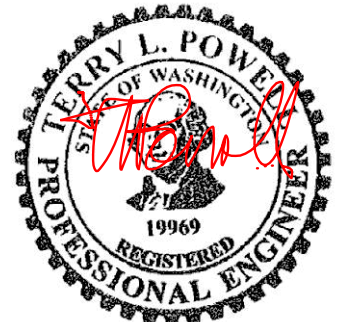
LUMBER-
TOP CHORD 2x4 HF No.2(flat)
BOT CHORD 2x4 HF No.2(flat)
WEBS 2x4 DF Stud(flat)

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

REACTIONS. (size) 5=Mechanical, 7=Mechanical
Max Grav 5=346(LC 1), 7=346(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=440/0
BOT CHORD 6-7=0/386
WEBS 2-7=436/0, 4-6=0/513

NOTES- (4)
1) Refer to girder(s) for truss to truss connections.
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.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) All dimensions given in feet-inches-sixteenths (FFI/ISS) format.



PRRNSF20220550

March 30, 2022

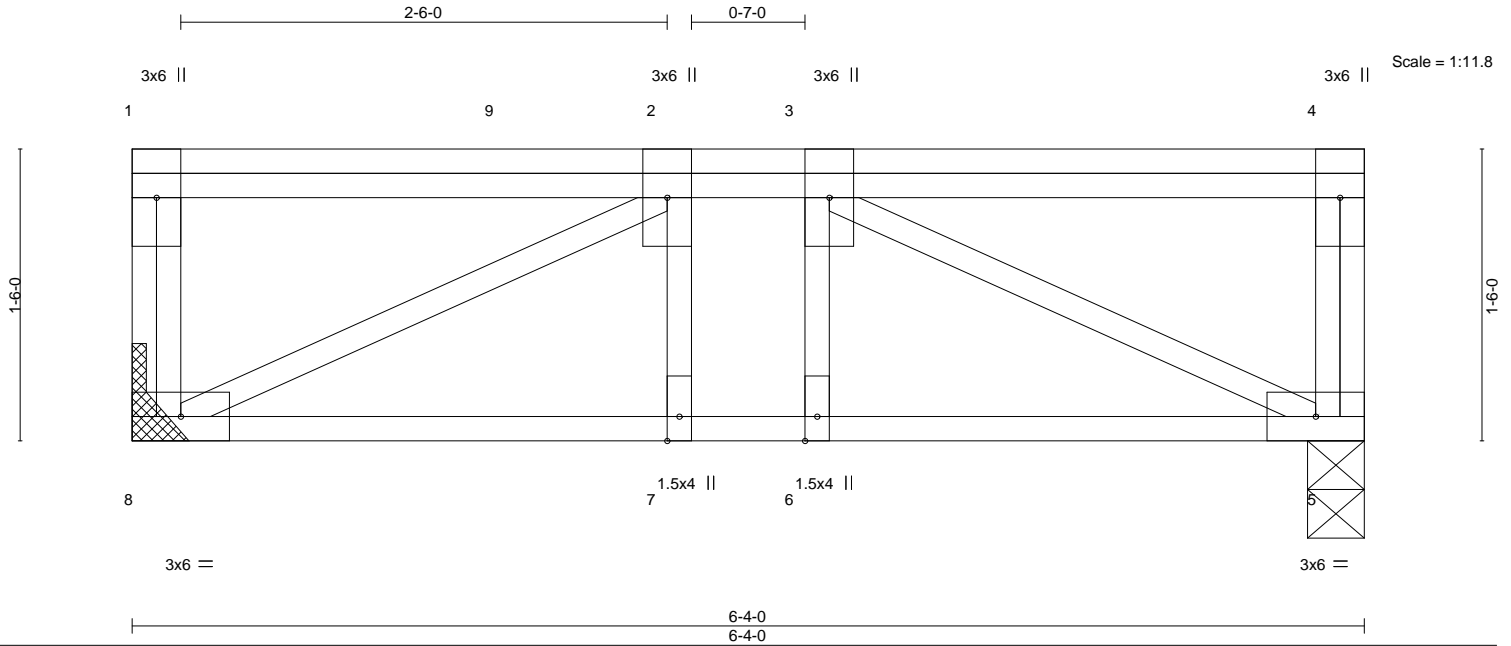
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.
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Job J1114706F	Truss F11	Truss Type Floor Girder	Qty 1	Ply 1	Arrow Lumber-Orting I14248583
Job Reference (optional)					

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 15:48:06 2022 Page 1
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LOADING (psf)	SPACING-	CS.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.26	in (loc) l/defl L/d	MT20	185/148
TCDL 10.0	Plate Grip DOL 1.00	BC 0.24	Vert(LL) -0.02 7-8 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.17	Vert(CT) -0.03 7-8 >999 360		
BCDL 10.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.01 5 n/a n/a		
	Code IRC2018/TPI2014			Weight: 39 lb	FT = 20%F, 9%E

LUMBER-

TOP CHORD 2x4 HF No.2(flat)
BOT CHORD 2x4 HF No.2(flat)
WEBS 2x4 DF Stud(flat)

BRACING-

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

REACTIONS. (size) 8=Mechanical, 5=0-3-8
Max Grav 8=451(LC 1), 5=403(LC 1)

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

TOP CHORD 2-3=-568/0
BOT CHORD 7-8=0/568, 6-7=0/568, 5-6=0/568
WEBS 3-5=-632/0, 2-8=-632/0

NOTES-

- (5) Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- All dimensions given in feet-inches-sixteenths (FFIIS) format.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-20, 1-4=-100
Concentrated Loads (lb)
Vert: 9=-124



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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.



Job J1114706F	Truss F12	Truss Type FLOOR	Qty 1	Ply 1	Arrow Lumber-Orting I14248584
Job Reference (optional)					

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Mar 29 15:48:07 2022 Page 1
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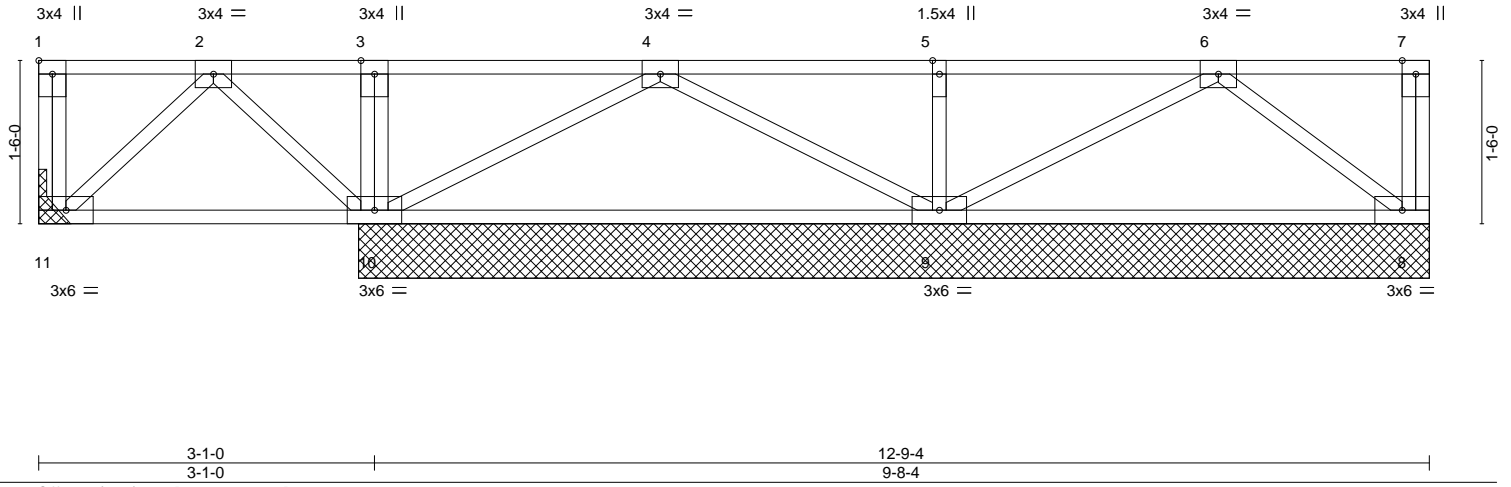


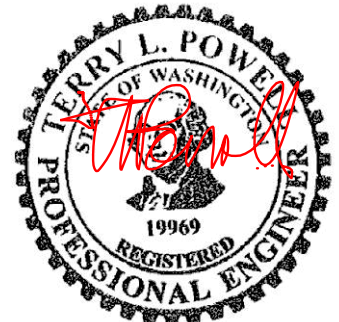
Plate Offsets (X,Y)--		[1:Edge,0-1-8]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.27	Vert(LL)	0.00 9	****	480	MT20	185/148
TCDL	10.0	Lumber DOL	1.00	BC	0.27	Vert(CT)	-0.06 9-10	>996	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00 8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 61 lb	FT = 20%F, 9%E

LUMBER-		BRACING-	
TOP CHORD	2x4 HF No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 HF No.2(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 DF Stud(flat)		

REACTIONS. All bearings 9-10-0 except (jt=length) 11=Mechanical.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 11, 8 except 10=546(LC 1), 9=629(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-10=-280/0, 4-9=-283/0, 5-9=-260/0, 6-9=-268/0

- NOTES-** (5)
- 1) Refer to girder(s) for truss to truss connections.
 - 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.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 4) CAUTION, Do not erect truss backwards.
 - 5) All dimensions given in feet-inches-sixteenths (FFIISS) format.



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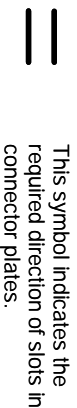
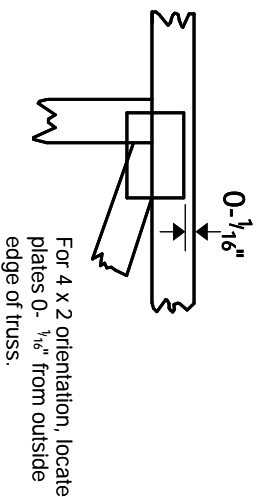
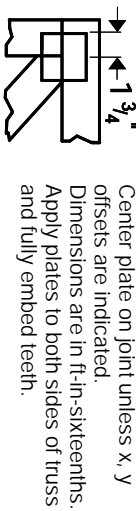
March 30,2022

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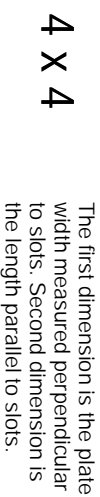
Symbols

PLATE LOCATION AND ORIENTATION

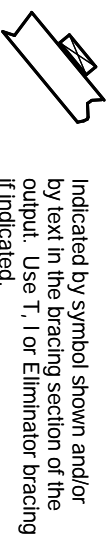


* Plate location details available in MITtek 20/20 software or upon request.

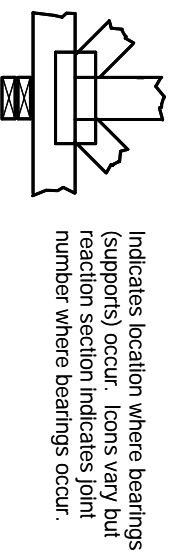
PLATE SIZE



LATERAL BRACING LOCATION

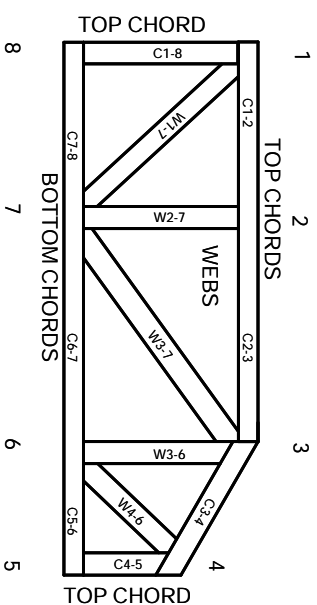


BEARING



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/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, ER-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 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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/TP1 1 Quality Criteria.

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