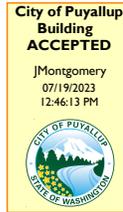


Re: J1139138F  
HC Homes Inc.



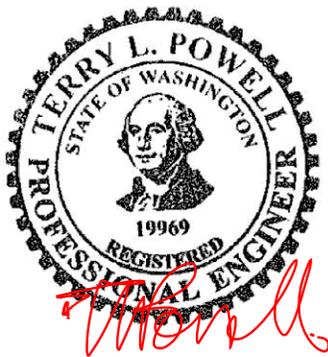
Tri-State Engineering, Inc.  
12810 NE 178th Street  
Suite 218  
Woodinville, WA 98072  
425.481.6601

**REPORT REQUIRED TO BE  
PROVIDED BY THE PERMITTEE ON  
SITE FOR ALL INSPECTIONS**

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: I14706735 thru I14706745

My license renewal date for the state of Washington is August 20, 2024.



April 17, 2023

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.

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

Job Reference (optional)  
8.630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 17:03:38 2023 Page 1  
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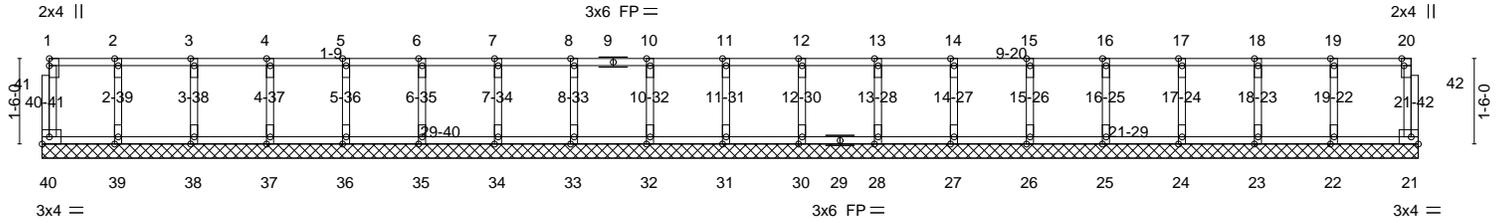
0-1-8



0-1-8

Scale = 1:40.2

PRRNSF20230919



1-4-0	2-8-0	4-0-0	5-4-0	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	20-0-0	21-4-0	22-8-0	24-1-12
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	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-5-12

Plate Offsets (X,Y)-- [20:0-1-8,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.11	in (loc) l/defl L/d	MT20	185/148
TCDL 10.0	Plate Grip DOL 1.00	BC 0.02	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber DOL 1.00	WB 0.04	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr NO	Matrix-R	Horz(CT) 0.00 21 n/a n/a		
	Code IRC2018/TPI2014			Weight: 91 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)  
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 10-0-0 oc bracing.

**REACTIONS.** All bearings 24-1-12.  
(lb) - Max Grav All reactions 250 lb or less at joint(s) 40, 21, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 28, 27, 26, 25, 24, 23, 22

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

- NOTES-** (8)
- All plates are 1.5x4 MT20 unless otherwise indicated.
  - Attach ribbon block to truss with 3-10d nails applied to flat face.
  - Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - Gable studs spaced at 1-4-0 oc.
  - 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 (FFI/SS) format.

**LOAD CASE(S)** Standard  
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 21-40=20, 1-20=143



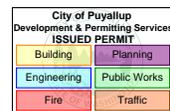
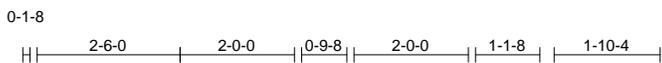
April 17, 2023

**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.



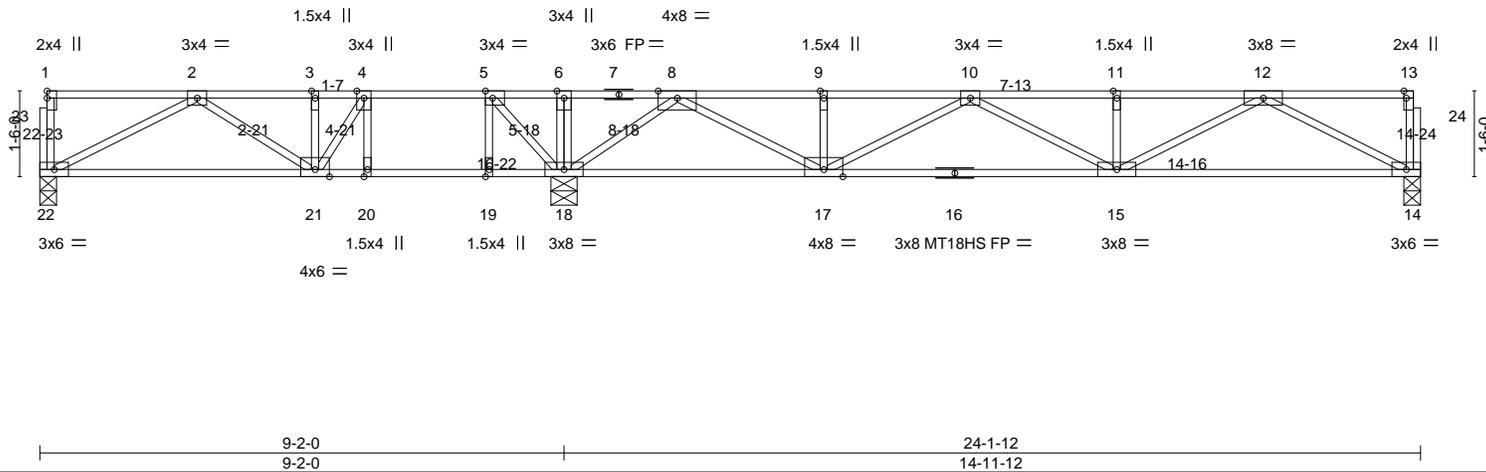
The Truss Company (Sumner), Sumner, WA - 98390,

Job Reference (optional)  
8,630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 17:03:39 2023 Page 1  
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PRRNSF20230919

0-1-8  
Scale = 1:40.1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.85	in (loc) l/defl L/d	MT20	185/148
TCDL 10.0	Plate Grip DOL 1.00	BC 0.83	Vert(LL) -0.13 20-21 >848 480	MT18HS	185/148
BCLL 0.0	Lumber DOL 1.00	WB 0.47	Vert(CT) -0.21 14-15 >831 360		
BCLD 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.04 14 n/a n/a		
	Code IRC2018/TPI2014			Weight: 110 lb	FT = 20%F, 9%E

**LUMBER-**  
TOP CHORD 2x4 HF No.2(flat)  
BOT CHORD 2x4 DF No.1&Btr(flat) \*Except\*  
14-16: 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.** (lb/size) 22=501/0-3-8 (min. 0-1-8), 18=1492/0-5-8 (min. 0-1-8), 14=862/0-3-8 (min. 0-1-8)  
Max Grav 22=580(LC 3), 18=1492(LC 1), 14=866(LC 7)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1095/0, 3-4=-1095/0, 4-5=-868/232, 5-6=-283/589, 6-7=-283/590, 7-8=-283/590, 8-9=-1961/0, 9-10=-1961/0, 10-11=-2185/0, 11-12=-2185/0  
BOT CHORD 21-22=0/844, 20-21=-232/868, 19-20=-232/868, 18-19=-232/868, 17-18=0/950, 16-17=0/2315, 15-16=0/2315, 14-15=0/1381  
WEBS 4-20=-409/0, 5-19=0/330, 2-22=-948/0, 2-21=-31/301, 3-21=-287/0, 4-21=0/640, 5-18=-1031/0, 12-14=-1554/0, 12-15=0/912, 10-17=-482/0, 9-17=-255/0, 8-17=0/1226, 8-18=-1448/0

- NOTES-** (7)
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are MT20 plates unless otherwise indicated.
  - 3) Attach ribbon block to truss with 3-10d nails applied to flat face.
  - 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 (FFIISS) format.

**LOAD CASE(S)** Standard



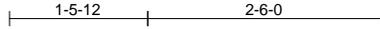
April 17, 2023



Job J1139138F	Truss F04	Truss Type FLOOR	Qty 8	Ply 1	HC Homes Inc.	114706738
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The Truss Company (Sumner), Sumner, WA - 98390,

Job Reference (optional)  
8,630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 17:03:41 2023 Page 1  
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City of Puyallup  
Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

0-1-8

Scale = 1:24.5

PRRNSF20230919

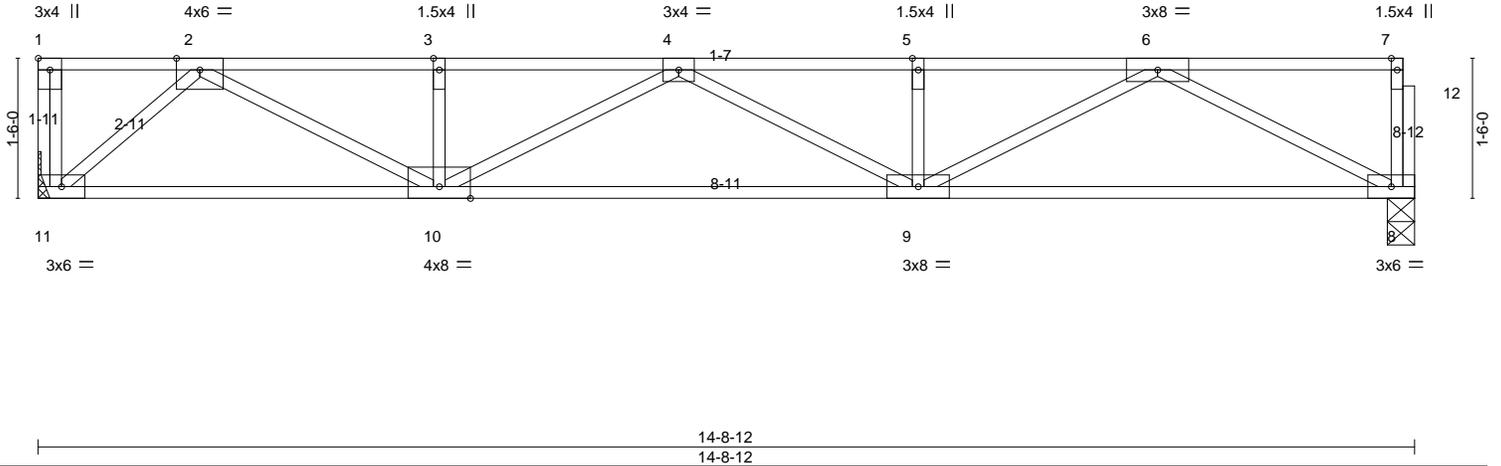


Plate Offsets (X,Y)-- [1:Edge,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.35	in (loc) l/defl L/d	MT20	185/148
TCDL 10.0	Plate Grip DOL 1.00	BC 0.75	Vert(LL) -0.11 9-10 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.45	Vert(CT) -0.21 8-9 >816 360		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.04 8 n/a n/a		
	Code IRC2018/TPI2014			Weight: 66 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.** (lb/size) 11=869/Mechanical, 8=863/0-3-8 (min. 0-1-8)

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

TOP CHORD 2-3=-1938/0, 3-4=-1938/0, 4-5=-2173/0, 5-6=-2173/0  
BOT CHORD 10-11=0/914, 9-10=0/2296, 8-9=0/1375  
WEBS 6-8=-1547/0, 6-9=0/905, 4-10=-406/0, 3-10=-259/0, 2-10=0/1162, 2-11=-1204/0

**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 (FFIISS) format.

**LOAD CASE(S)** Standard



April 17, 2023

**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 J1139138F	Truss F05	Truss Type FLOOR	Qty 8	Ply 1	HC Homes Inc.	114706739
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The Truss Company (Sumner), Sumner, WA - 98390,

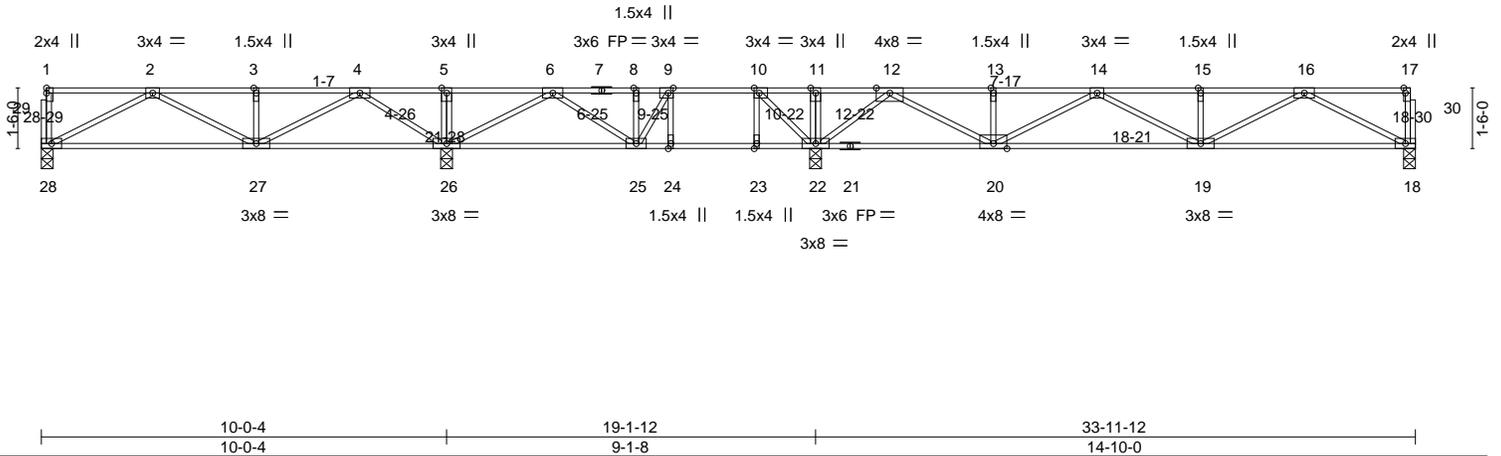
Job Reference (optional)  
8,630 s Nov 19 2022 MITek Industries, Inc. Fri Apr 14 17:03:42 2023 Page 1

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PRRNSF20230919

0-1-8  
Scale = 1:56.7



<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.63	in (loc) l/defl L/d	MT20	185/148
TCDL 10.0	Plate Grip DOL 1.00	BC 0.69	Vert(LL) -0.09 19-20 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.50	Vert(CT) -0.20 18-19 >866 360		
BCDL 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.02 18 n/a n/a		
	Code IRC2018/TPI2014			Weight: 150 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 6-0-0 oc bracing.

**REACTIONS.** All bearings 0-3-8.  
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 28=453(LC 5), 26=1489(LC 3), 18=809(LC 4), 22=1400(LC 4)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-633/307, 3-4=-633/307, 4-5=0/1511, 5-6=0/1512, 6-7=-337/609, 7-8=-337/609, 8-9=-337/609, 9-10=-292/705, 10-11=0/916, 11-12=0/916, 12-13=-1533/0, 13-14=-1533/0, 14-15=-1971/0, 15-16=-1971/0  
BOT CHORD 27-28=-101/595, 26-27=-825/0, 25-26=-718/0, 24-25=-705/292, 23-24=-705/292, 22-23=-705/292, 21-22=0/416, 20-21=0/416, 19-20=0/1993, 18-19=0/1273  
WEBS 2-28=-667/116, 3-27=-253/0, 4-27=0/906, 4-26=-1218/0, 6-26=-1143/0, 6-25=0/517, 10-22=-687/0, 16-18=-1432/0, 16-19=0/792, 14-20=-566/0, 13-20=-258/0, 12-20=0/1311, 12-22=-1424/0

- NOTES-** (7)
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are 3x6 MT20 unless otherwise indicated.
  - 3) Attach ribbon block to truss with 3-10d nails applied to flat face.
  - 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 (FFIISS) format.

**LOAD CASE(S)** Standard



April 17, 2023

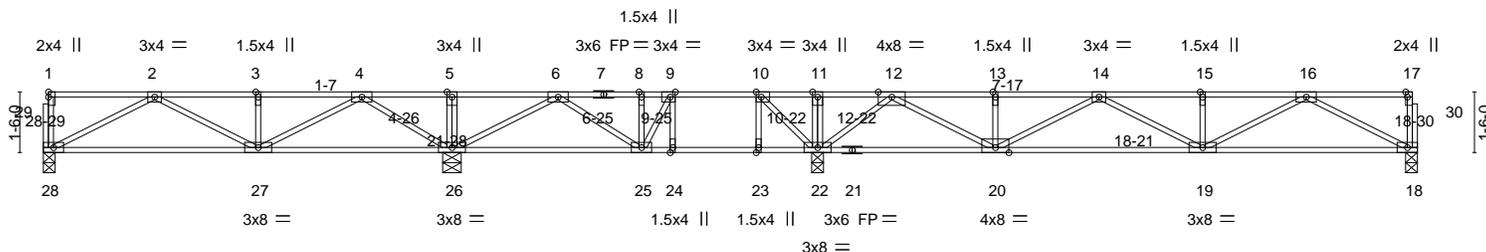
The Truss Company (Sumner), Sumner, WA - 98390,

Job Reference (optional)  
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PRRNSF20230919

0-1-8  
Scale = 1:56.7



	10-1-4	19-1-12	33-11-12
	10-1-4	9-0-8	14-10-0
Plate Offsets (X,Y)--	[9:0-1-8,Edge], [10:0-1-8,Edge], [17:0-1-8,Edge]		

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.62	in (loc) l/defl L/d	MT20	185/148
TCDL 10.0	Plate Grip DOL 1.00	BC 0.69	Vert(LL) -0.09 19-20 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.50	Vert(CT) -0.20 18-19 >867 360		
BCLD 10.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.03 18 n/a n/a		
	Code IRC2018/TPI2014			Weight: 150 lb	FT = 20%F, 9%E

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 HF No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 HF No.2(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 DF Stud(flat)	

**REACTIONS.** All bearings 0-3-8 except (jt=length) 26=0-5-8.  
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 28=459(LC 5), 26=1483(LC 3), 18=808(LC 4), 22=1400(LC 4)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-655/285, 3-4=-655/285, 4-5=0/1493, 5-6=0/1495, 6-7=-330/619, 7-8=-330/619, 8-9=-330/619, 9-10=-280/714, 10-11=0/923, 11-12=0/923, 12-13=-1526/0, 13-14=-1526/0, 14-15=-1967/0, 15-16=-1967/0  
BOT CHORD 27-28=-90/607, 26-27=-793/31, 25-26=-724/0, 24-25=-714/280, 23-24=-714/280, 22-23=-714/280, 21-22=0/408, 20-21=0/408, 19-20=0/1988, 18-19=0/1271  
WEBS 5-26=-252/0, 2-28=-680/103, 3-27=-252/0, 4-27=0/887, 4-26=-1244/0, 6-26=-1125/0, 6-25=0/502, 10-22=-682/0, 16-18=-1430/0, 16-19=0/790, 14-20=-567/0, 13-20=-258/0, 12-20=0/1312, 12-22=-1425/0, 9-25=0/256

- NOTES-** (7)
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are 3x6 MT20 unless otherwise indicated.
  - 3) Attach ribbon block to truss with 3-10d nails applied to flat face.
  - 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 (FFIISS) format.

**LOAD CASE(S)** Standard



April 17, 2023

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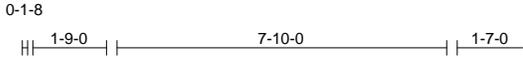


Job J1139138F	Truss F07	Truss Type GABLE	Qty 2	Ply 1	HC Homes Inc.	114706741
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The Truss Company (Sumner), Sumner, WA - 98390,

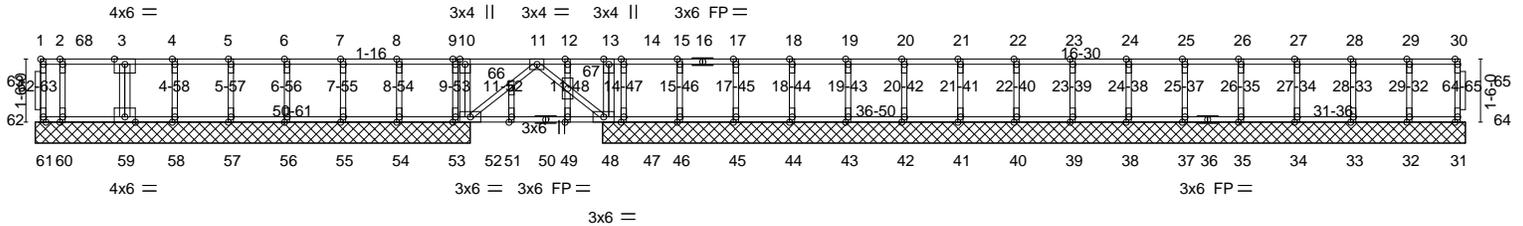
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PRRNSF20230919

0-1-8  
Scale = 1:54.5



0-7-12	2-1-8	3-3-12	4-7-12	5-11-12	7-3-12	8-7-12	9-11-12	11-3-12	13-7-8	15-3-12	16-7-12	17-11-12	19-3-12	20-7-12	21-11-12	23-3-12	24-7-12	25-11-12	27-3-12	28-7-12	29-11-12	31-3-12	32-7-12	33-11-12
0-7-12	1-5-12	1-2-4	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-1-4	1-4-0	0-11-12	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	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0
								0-2-12			0-4-4													

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

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.21	in (loc) l/defl L/d	MT20	220/195
TCDL 10.0	Plate Grip DOL 1.00	BC 0.13	Vert(LL) -0.01 49 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.41	Vert(CT) -0.01 49-51 >999 360		
BCLD 10.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.00 31 n/a n/a		
	Code IRC2018/TPI2014			Weight: 153 lb	FT = 20%F, 9%E

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 DF No.1&Btr(flat)	TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 DF No.1&Btr(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 DF Stud(flat)	
OTHERS 2x4 DF Stud(flat)	

**REACTIONS.** All bearings 20-6-0 except (jt=length) 61=10-4-0, 59=10-4-0, 52=10-4-0, 60=10-4-0, 58=10-4-0, 57=10-4-0, 56=10-4-0, 55=10-4-0, 54=10-4-0, 53=10-4-0.  
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 47 except 53=212(LC 4)  
Max Grav All reactions 250 lb or less at joint(s) 61, 31, 58, 57, 56, 55, 54, 53, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 35, 34, 33, 32 except 59=3868(LC 1), 48=611(LC 1), 52=695(LC 4), 60=408(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
BOT CHORD 51-52=0/252, 50-51=0/252, 49-50=0/252, 48-49=0/252  
WEBS 3-59=-3840/0, 13-48=-294/0, 10-52=-368/0, 52-66=-323/0, 11-66=-321/0, 11-67=-321/0, 48-67=-324/0, 2-60=-382/0

- NOTES-** (9)
- Unbalanced floor live loads have been considered for this design.
  - All plates are 1.5x4 MT20 unless otherwise indicated.
  - Attach ribbon block to truss with 3-10d nails applied to flat face.
  - Gable studs spaced at 1-4-0 oc.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 47 except (jt=lb) 53=212.
  - 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.
  - CAUTION, Do not erect truss backwards.
  - All dimensions given in feet-inches-sixteenths (FFIISS) format.

**LOAD CASE(S)** Standard  
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 31-61=-20, 1-68=-390, 4-68=-100, 4-10=-143, 10-13=-233, 13-30=-143  
Concentrated Loads (lb)  
Vert: 3=3713



April 17, 2023

**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 J1139138F	Truss F08	Truss Type FLOOR	Qty 8	Ply 1	HC Homes Inc.	114706742
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The Truss Company (Sumner), Sumner, WA - 98390,

ID:YLcgXvNyjDRbUpX6?FIHq?zUjAK-Qh27NCFsYWXz5t9d2m6uhc6v?UNi3WDmXX5UM1zQkex  
8.630 s Nov 19 2022 MITek Industries, Inc. Fri Apr 14 17:03:46 2023 Page 1

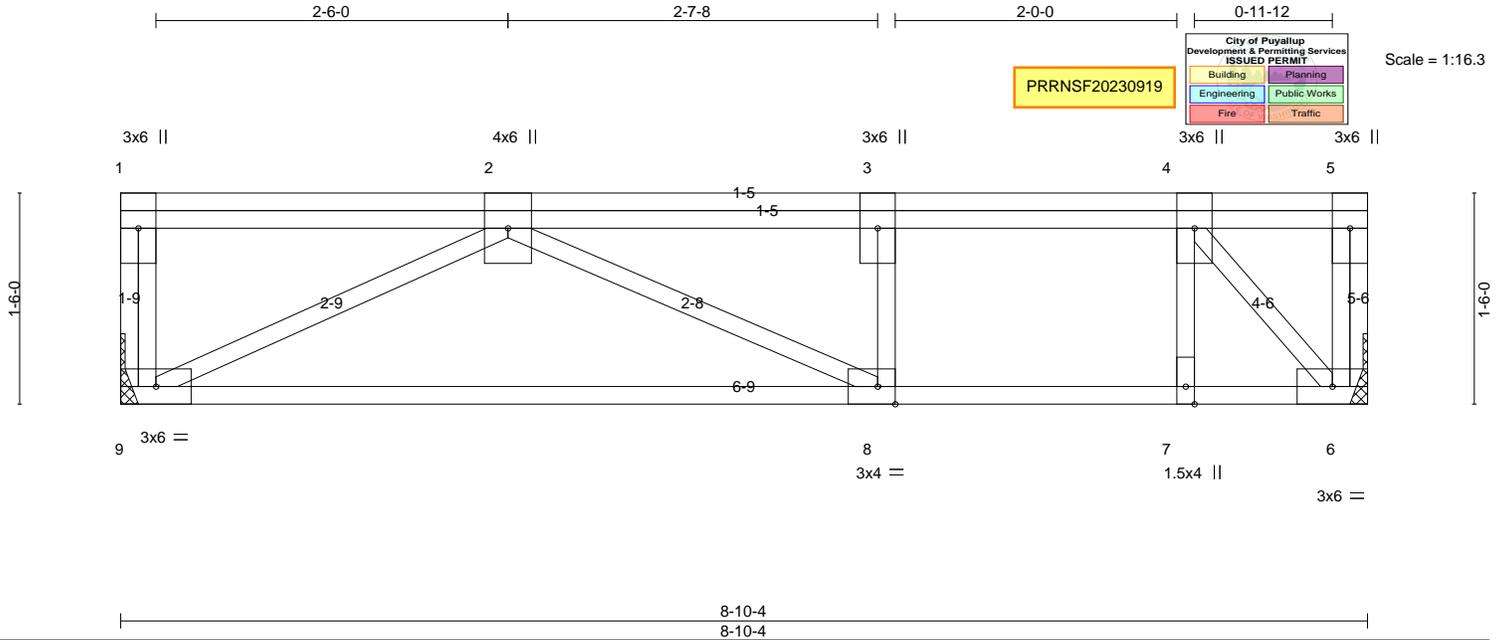


Plate Offsets (X,Y)-- [8:0-1-8,Edge]										
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.56	Vert(LL)	-0.09	8-9	>999	480	MT20	185/148
TCDL 10.0	Lumber DOL	1.00	BC 0.56	Vert(CT)	-0.28	8-9	>363	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.23	Horz(CT)	0.01	6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-SH						Weight: 50 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.** (lb/size) 9=516/Mechanical, 6=516/Mechanical

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 5-6=0/264, 2-3=672/0, 3-4=672/0  
BOT CHORD 8-9=0/762, 7-8=0/672, 6-7=0/672  
WEBS 2-9=852/0, 4-6=1012/0

- NOTES-** (5)
- 1) Unbalanced floor live loads have been considered for this design.
  - 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) All dimensions given in feet-inches-sixteenths (FFIISS) format.

**LOAD CASE(S)** Standard

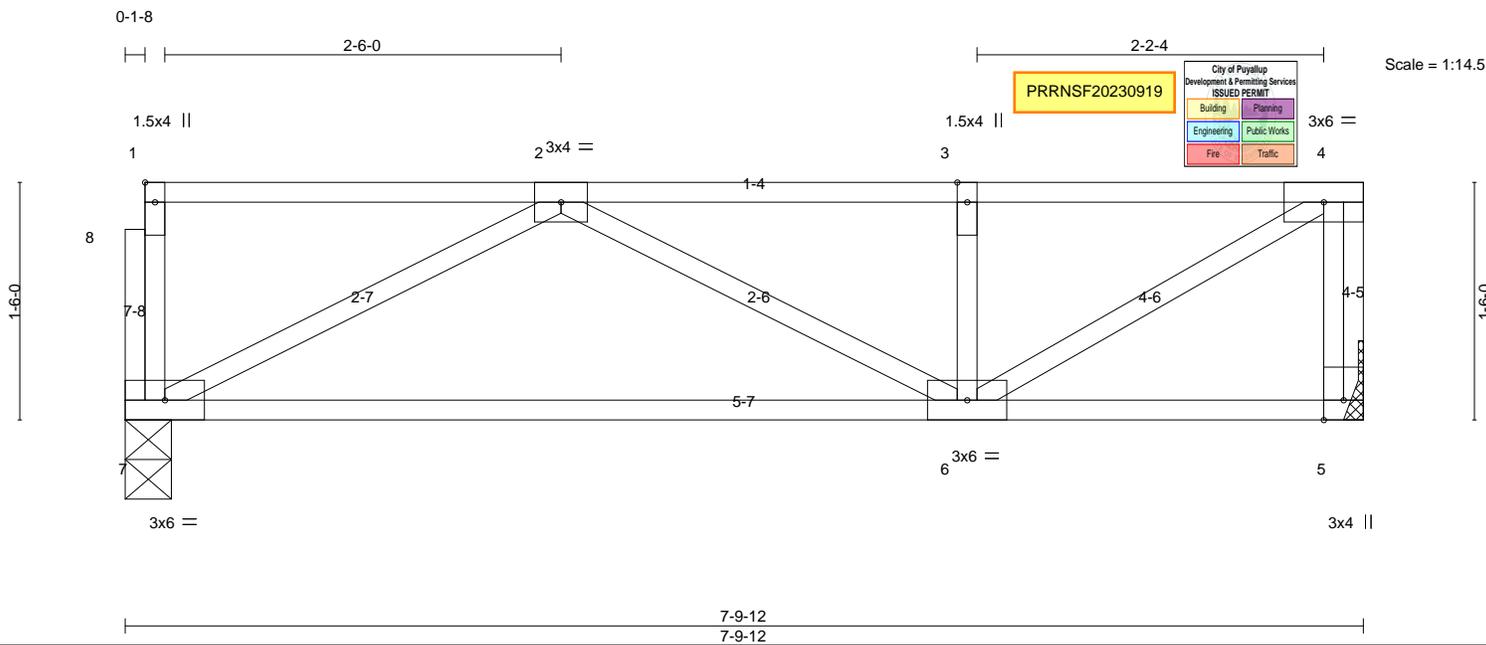


April 17, 2023

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.**  
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The Truss Company (Sumner), Sumner, WA - 98390,

Job Reference (optional)  
8,630 s Nov 19 2022 MITek Industries, Inc. Fri Apr 14 17:03:47 2023 Page 1  
ID:YLcgXvNyjDRbUpX6?FIHQ?zUjAK-utcVaYGUJqfj1jqcTd7Dqe8gulCoxkwiBq2uTzQkew



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	in	(loc)	l/defl	L/d	MT20	185/148		
TCDL	10.0	Lumber DOL	1.00	BC	0.43	Vert(LL)	-0.01	6-7	>999	480			
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Vert(CT)	-0.16	6-7	>583	360			
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P		Horz(CT)	0.01	5	n/a	n/a			
											Weight: 37 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.** (lb/size) 5=454/Mechanical, 7=448/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 4-5=450/0, 2-3=613/0, 3-4=613/0  
BOT CHORD 6-7=0/582  
WEBS 2-7=651/0, 3-6=267/0, 4-6=0/709

- 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 (FFIISS) format.

**LOAD CASE(S)** Standard

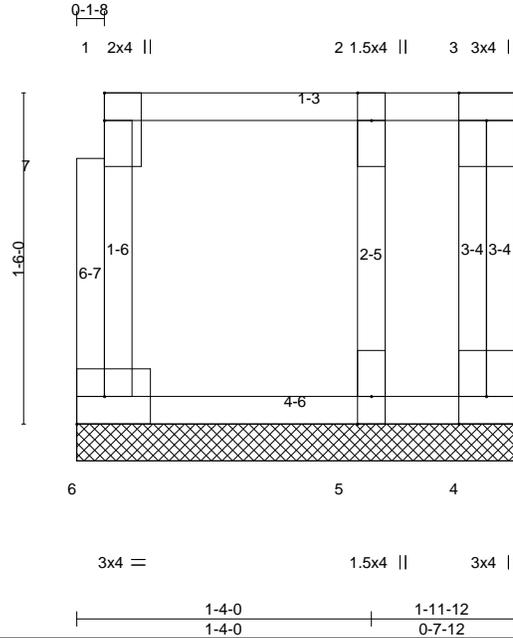


April 17, 2023

Job J1139138F	Truss F10	Truss Type GABLE	Qty 2	Ply 1	HC Homes Inc. 114706744
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The Truss Company (Sumner), Sumner, WA - 98390,

Job Reference (optional)  
6,630 s Nov 19 2022 MITek Industries, Inc. Fri Apr 14 17:03:48 2023 Page 1  
ID:YLcgXvNjyDRbUpX6?FIHQ?zUjAK-M3AtnuH648nhLB10AB8Mm1BK7HAhXR\_3\_rabQwzQkev



City of Puyallup Development & Permitting Services ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic

Scale = 1:10.4

PRRNSF20230919

<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 40.0	Plate Grip DOL 1.00	TC 0.20	Vert(LL) n/a - n/a 999	MT20	185/148
TCDL 10.0	Lumber DOL 1.00	BC 0.09	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr NO	WB 0.08	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R		Weight: 13 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)  
OTHERS 2x4 DF Stud(flat)

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 1-11-12 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 6=223/1-11-12 (min. 0-1-8), 4=104/1-11-12 (min. 0-1-8), 5=358/1-11-12 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS 2-5=-368/0

- NOTES-** (8)
- 1) Attach ribbon block to truss with 3-10d nails applied to flat face.
  - 2) Gable requires continuous bottom chord bearing.
  - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 4) Gable studs spaced at 1-4-0 oc.
  - 5) 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.
  - 6) 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.
  - 7) CAUTION, Do not erect truss backwards.
  - 8) All dimensions given in feet-inches-sixteenths (FFIISS) format.

**LOAD CASE(S)** Standard  
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 4-6=-20, 1-3=-390



April 17, 2023

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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.

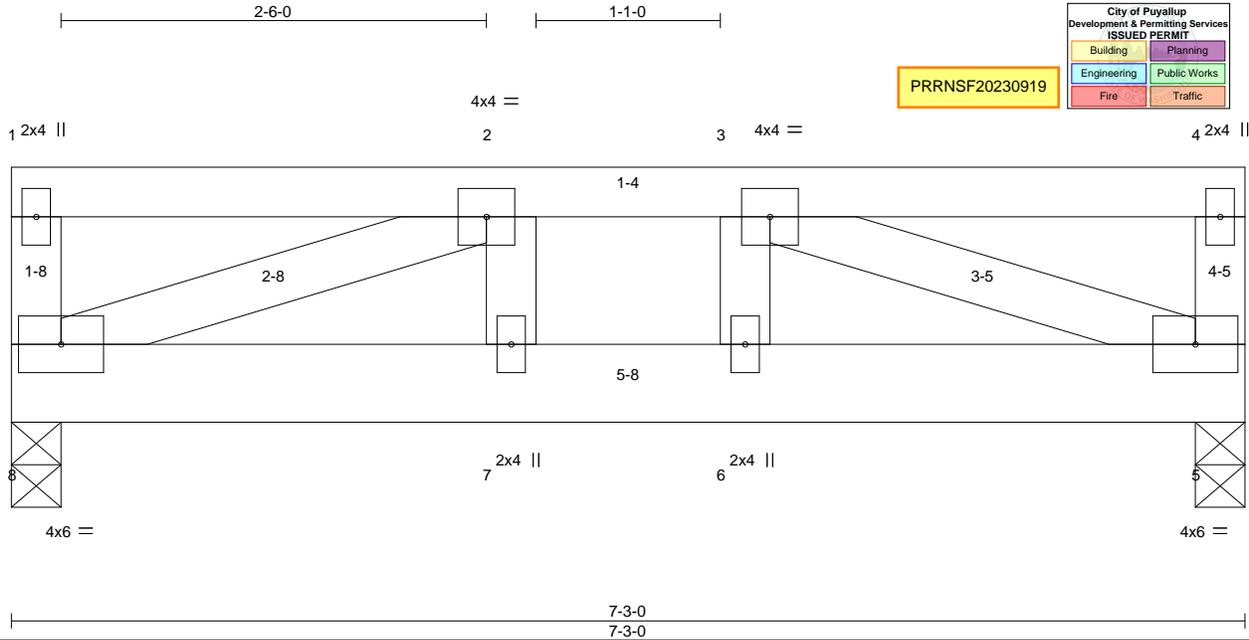


Job J1139138F	Truss F11	Truss Type Floor Girder	Qty 2	Ply 2	HC Homes Inc.	114706745
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The Truss Company (Sumner), Sumner, WA - 98390,

ID:YLcgXvNyjDRbUpX6?FIHQ?zUjAK-M3AtnuH648nhLBI0AB8Mm1BGhH5jXLw3\_rabQwzQkev

Job Reference (optional)  
8,630 s Nov 19 2022 MiTek Industries, Inc. Fri Apr 14 17:03:48 2023 Page 1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.48	in (loc) l/defl L/d	MT20	185/148
TCDL 10.0	Plate Grip DOL 1.00	BC 0.41	Vert(LL) -0.03 7 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.47	Vert(CT) -0.05 6-7 >999 360		
BCDL 10.0	Rep Stress Incr NO	Matrix-SH	Horz(CT) 0.01 5 n/a n/a		
	Code IRC2018/TPI2014			Weight: 70 lb	FT = 9%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 5-10-2 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 5=2888/0-3-8 (min. 0-1-9), 8=2888/0-3-8 (min. 0-1-9)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-309/0, 2-3=-4154/0, 3-4=-309/0  
 BOT CHORD 7-8=0/4154, 6-7=0/4154, 5-6=0/4154  
 WEBS 3-5=-4145/0, 2-8=-4145/0, 2-7=0/1396, 3-6=0/1396

- NOTES-** (6)
- 2-ply truss to be connected together with 10d (0.148"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.
  - Unbalanced floor live loads have been considered for this design.
  - 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 (FFI/SS) format.

**LOAD CASE(S)** Standard  
 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
 Uniform Loads (plf)  
 Vert: 5-8=-730(F=-267, B=-442), 1-4=-100



April 17, 2023

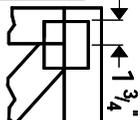
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.**  
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# Symbols

## PLATE LOCATION AND ORIENTATION

Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

PRRNSF20230919

This symbol indicates the required direction of slots in connector plates.

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

## PLATE SIZE

4 X 4

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

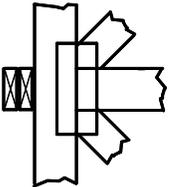
## LATERAL BRACING LOCATION

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



## BEARING

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

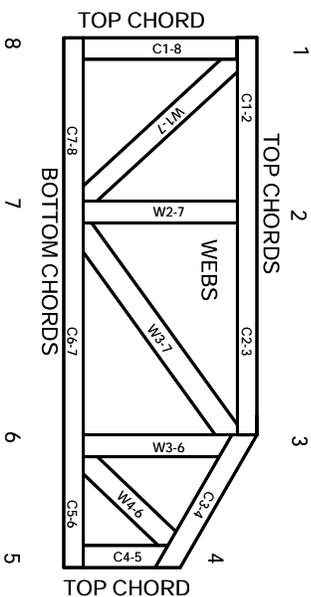


## Industry Standards:

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

6-4-8  
dimensions shown in ft-in-sixteenths  
(Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/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/TP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP 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/TP 1 Quality Criteria.