



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

Re: J1132071
Full Tilt Construction

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

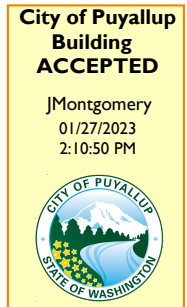
The truss drawing(s) referenced below have been prepared by Tri-State Engineering under my direct supervision based on the parameters provided by The Truss Company (Sumner).

Pages or sheets covered by this seal: I14581059 thru I14581072

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

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

FULL SIZED LEDGIBLE COLOR PLANS ARE
REQUIRED TO BE PROVIDED BY THE
PERMITEE ON SITE FOR INSPECTION



January 5, 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.

Job J1132071	Truss A01	Truss Type Piggyback Base Structural Gable	Qty 1	Ply 1	Full Tilt Construction Job Reference (optional)	I14581059
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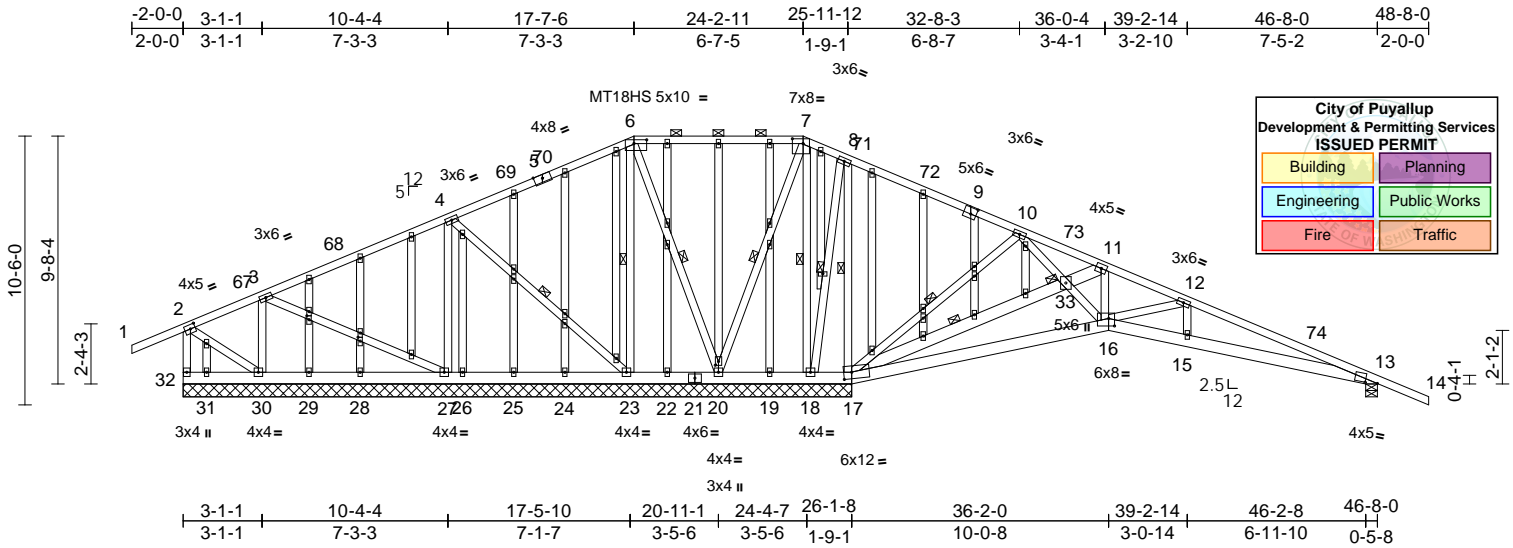
The Truss Company (Sumner), Sumner, WA - 98390,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Jan 05 10:43:19

Page: 1

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PRRAS20221937



Scale = 1:90

[2:0-2-4,0-2-0], [6:0-6-0,0-1-12], [7:0-5-0,0-2-4], [9:0-2-8,0-3-0], [13:0-5-13,0-0-10], [16:0-2-12,0-3-8], [17:0-3-12,0-3-0], [20:0-1-12,0-1-8], [46:0-1-13,0-1-0],

Plate Offsets (X, Y): [48:0-1-13,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.07	15-66	>999	360	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.13	16-17	>999	240	MT18HS	185/148
TCDL	8.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.03	13	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	7.0											
											Weight: 432 lb	FT = 20%

LUMBER	Max Grav	13=639 (LC 37), 17=1383 (LC 31), 18=549 (LC 20), 19=107 (LC 5), 20=552 (LC 19), 22=53 (LC 5), 23=511 (LC 19), 24=81 (LC 5), 25=95 (LC 21), 26=47 (LC 21), 27=533 (LC 35), 28=102 (LC 21), 29=50 (LC 5), 30=345 (LC 35), 31=87 (LC 22), 32=165 (LC 35)	1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Partially Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 2-9-14 to 7-5-14, Interior (1) 7-5-14 to 17-9-5, Exterior(2R) 17-9-5 to 33-8-10, Interior (1) 33-8-10 to 48-9-14, Exterior(2E) 48-9-14 to 53-5-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
TOP CHORD	2x4 HF No.2		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.
BOT CHORD	2x6 DF SS		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
WEBS	2x4 HF No.2 *Except* 3-30,4-27,32-2,30-2,10-16,11-16,12-16,15-12 :2x4 DF Stud, 11-33,33-17:2x6 DF SS		4) Unbalanced snow loads have been considered for this design.
OTHERS	2x4 DF Stud *Except* 20-34,37-38,55-56:2x4 HF No.2		
BRACING		FORCES	
TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 6-7.	(lb) - Maximum Compression/Maximum Tension	
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 15-16,13-15.	TOP CHORD	
WEBS	1 Row at midpt 4-23, 6-23, 7-18, 8-17, 7-20, 6-20, 8-18, 10-17, 17-33	31-32=-85/147, 30-31=-85/147, 29-30=-153/159, 28-29=-153/159, 27-28=-153/159, 26-27=-335/220, 25-26=-335/220, 24-25=-335/220, 23-24=-335/220, 22-23=-620/297, 21-22=-620/297, 20-21=-620/297, 19-20=-833/327, 18-19=-833/327, 17-18=-848/317, 16-17=-61/148, 15-16=-89/1093, 13-15=-101/1116	
JOINTS	1 Brace at Jt(s): 33	BOT CHORD	
REACTIONS	(size) 13=0-5-8, 17=26-1-8, 18=26-1-8, 19=26-1-8, 20=26-1-8, 22=26-1-8, 23=26-1-8, 24=26-1-8, 25=26-1-8, 26=26-1-8, 27=26-1-8, 28=26-1-8, 29=26-1-8, 30=26-1-8, 31=26-1-8, 32=26-1-8	33-30=-344/124, 3-27=-204/67, 4-27=-462/154, 4-23=-406/110, 6-23=-307/78, 7-18=-672/38, 8-17=-517/105, 2-30=-150/48, 7-20=-108/180, 6-20=-529/91, 8-18=-64/115, 10-17=-711/162, 10-33=0/389, 16-33=0/403, 11-16=-28/370, 12-16=-724/238, 12-15=-6/208, 11-33=-547/97, 17-33=-515/102	
	Max Horiz 32=-120 (LC 13)	WEBS	
	Max Uplift 13=-127 (LC 13), 17=-196 (LC 13), 18=-128 (LC 13), 20=-74 (LC 8), 23=-111 (LC 12), 26=-4 (LC 5), 27=-135 (LC 12), 30=-127 (LC 12), 32=-87 (LC 31)		

NOTES



January 5, 2023

Continued on page 2

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	Truss	Truss Type	Qty	Ply	Full Tilt Construction	I14581059
J1132071	A01	Piggyback Base Structural Gable	1	1	Job Reference (optional)	

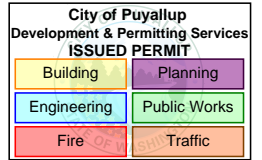
The Truss Company (Sumner), Sumner, WA - 98390,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Jan 05 10:43:19
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Page: 2

- 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) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
- 12) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 32, 196 lb uplift at joint 17, 127 lb uplift at joint 13, 127 lb uplift at joint 30, 135 lb uplift at joint 27, 111 lb uplift at joint 23, 128 lb uplift at joint 18, 74 lb uplift at joint 20 and 4 lb uplift at joint 26.
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

PRRAS20221937



LOAD CASE(S) Standard

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Safety Information



the**TRUSSCO.** INC.

Job J1132071	Truss A02	Truss Type Piggyback Base	Qty 4	Ply 1	Full Tilt Construction Job Reference (optional)	114581060
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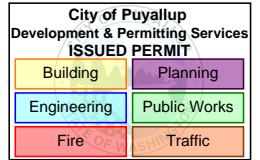
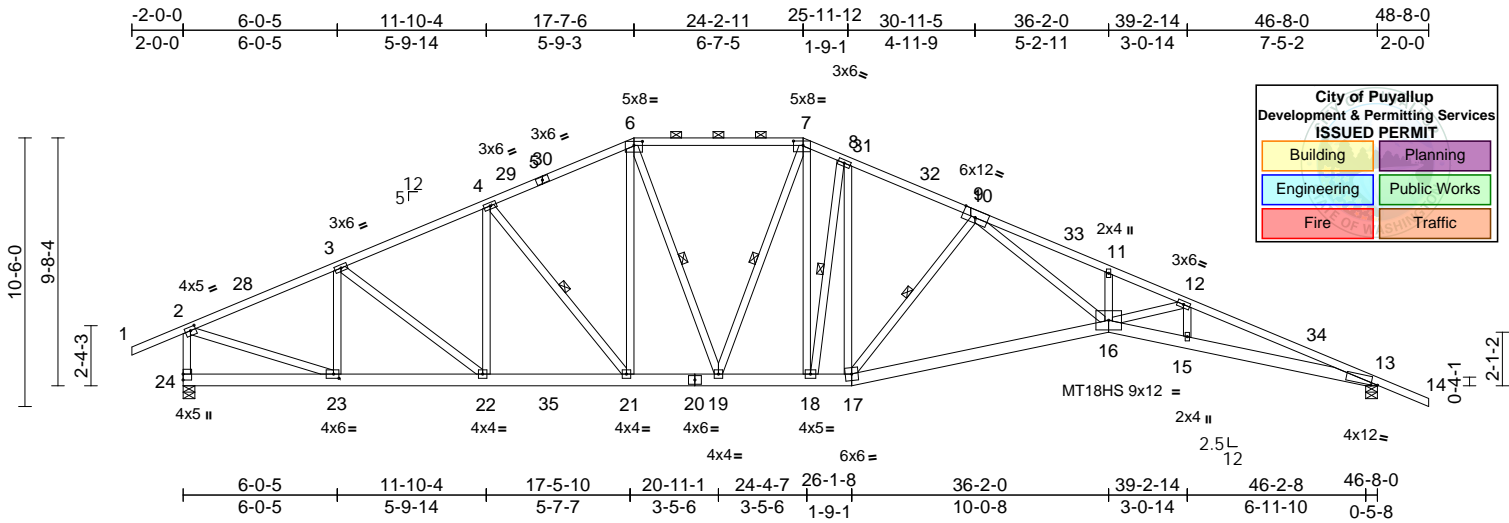
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PRRAS20221937



Scale = 1:90

Plate Offsets (X, Y): [2:0-2-8,0-1-12], [6:0-4-0,0-1-13], [7:0-4-8,0-2-0], [9:0-6-0,Edge], [13:0-3-1,0-0-8], [23:0-2-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.77	16-17	>728	360	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.82	Vert(CT)	-1.22	16-17	>459	240	MT18HS	185/148
TCDL	8.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.40	13	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	7.0											
												Weight: 301 lb FT = 20%

LUMBER
TOP CHORD 2x4 HF No.2 *Except* 6-7,9-14:2x4 DF No.1&Btr
BOT CHORD 2x6 DF SS
WEBS 2x4 HF No.2 *Except* 24-2,23-2,11-16,12-16,15-12,23-3,22-3,22-4: 2x4 DF Stud

WEBS
6-21=-81/559, 7-18=-224/1139, 8-18=-1068/207, 8-17=-120/899, 2-23=-322/2327, 11-16=-234/105, 12-16=-424/177, 10-17=-1823/342, 10-16=-565/4363, 12-15=-39/70, 4-21=-581/161, 3-23=-656/162, 3-22=-33/377, 4-22=-141/132, 7-19=-433/130, 6-19=-76/466

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 289 lb uplift at joint 24 and 318 lb uplift at joint 13.
- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 8-18, 10-17, 4-21, 7-19, 6-19

- NOTES**
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCLL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Partially Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 2-9-14 to 7-5-14, Interior (1) 7-5-14 to 17-9-5, Exterior(2R) 17-9-5 to 33-8-10, Interior (1) 33-8-10 to 48-9-14, Exterior(2E) 48-9-14 to 53-5-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; 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) Provide adequate drainage to prevent water ponding.
 - 6) All plates are MT20 plates unless otherwise indicated.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 7.0psf.
 - 9) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

LOAD CASE(S) Standard

REACTIONS (size) 13=0-5-8, 24=0-5-8
Max Horiz 24=120 (LC 13)
Max Uplift 13=318 (LC 13), 24=-289 (LC 12)
Max Grav 13=2039 (LC 2), 24=2069 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/54, 2-28=-2507/434, 3-28=-2444/453, 3-4=-2779/553, 4-29=-2555/554, 5-29=-2510/560, 5-30=-2503/561, 6-30=-2493/574, 6-7=-2378/568, 7-8=-2669/627, 8-31=-2801/614, 31-32=-2841/612, 9-32=-2902/597, 9-10=-2902/596, 10-33=-7544/1210, 11-33=-7569/1197, 11-12=-7587/1161, 12-34=-7950/1208, 13-34=-8012/1189, 13-14=0/51, 2-24=-1975/412
BOT CHORD 23-24=-66/151, 22-23=-295/2291, 22-35=-300/2524, 21-35=-300/2524, 20-21=-239/2294, 19-20=-239/2294, 18-19=-264/2435, 17-18=-295/2601, 16-17=-505/3726, 15-16=-1034/7522, 13-15=-1036/7506



January 5, 2023

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Job J1132071	Truss B01	Truss Type Common Supported Gable	Qty 1	Ply 1	Full Tilt Construction Job Reference (optional)	I14581061
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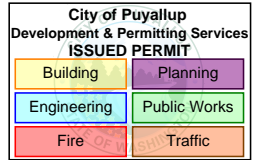
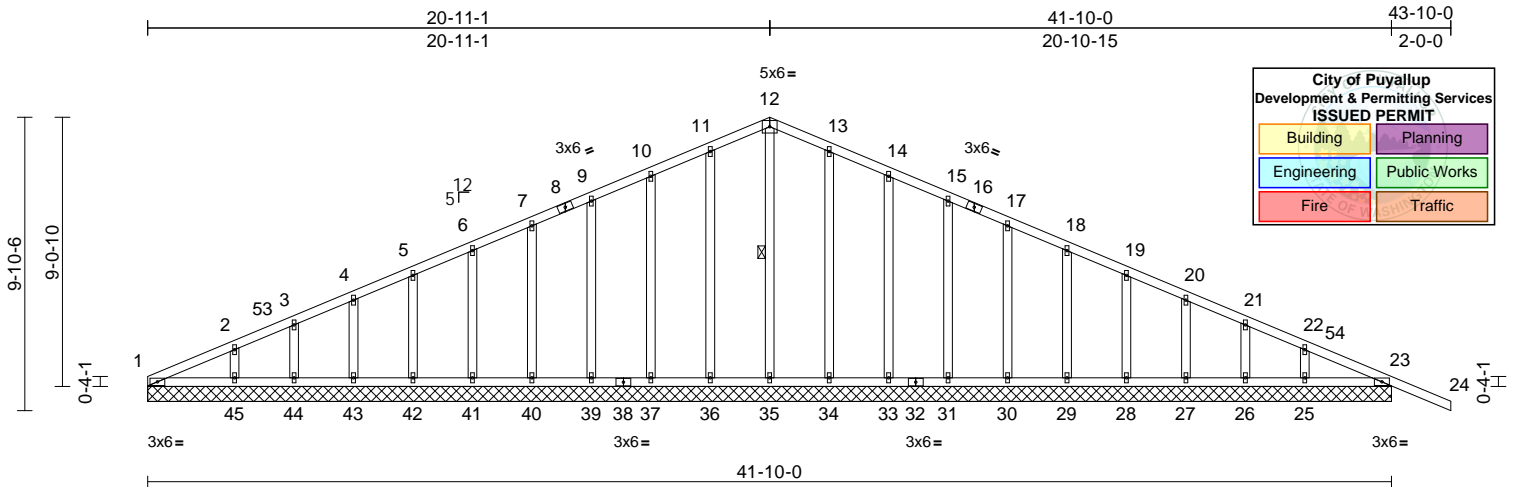
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PRRAS20221937



Scale = 1:77.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	8.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.01	50	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	7.0											
											Weight: 217 lb	FT = 20%

LUMBER
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
OTHERS 2x4 DF Stud *Except* 35-12,36-11,34-13:2x4 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 12-35

REACTIONS (size)
1=41-10-0, 23=41-10-0,
25=41-10-0, 26=41-10-0,
27=41-10-0, 28=41-10-0,
29=41-10-0, 30=41-10-0,
31=41-10-0, 33=41-10-0,
34=41-10-0, 35=41-10-0,
36=41-10-0, 37=41-10-0,
39=41-10-0, 40=41-10-0,
41=41-10-0, 42=41-10-0,
43=41-10-0, 44=41-10-0,
45=41-10-0, 46=41-10-0,
50=41-10-0

Max Horiz 1=-118 (LC 17), 46=-118 (LC 17)
Max Uplift 1=-10 (LC 13), 23=-44 (LC 9),
25=-47 (LC 13), 26=-43 (LC 13),
27=-44 (LC 13), 28=-44 (LC 13),
29=-44 (LC 13), 30=-44 (LC 13),
31=-43 (LC 13), 33=-47 (LC 13),
34=-40 (LC 13), 36=-42 (LC 12),
37=-46 (LC 12), 39=-43 (LC 12),
40=-44 (LC 12), 41=-44 (LC 12),
42=-43 (LC 12), 43=-46 (LC 12),
44=-35 (LC 12), 45=-69 (LC 12),
46=-10 (LC 13), 50=-44 (LC 9)

Max Grav 1=100 (LC 19), 23=290 (LC 1),
25=158 (LC 20), 26=162 (LC 1),
27=159 (LC 20), 28=160 (LC 1),
29=161 (LC 20), 30=160 (LC 1),
31=196 (LC 20), 33=234 (LC 20),
34=245 (LC 20), 35=146 (LC 25),
36=249 (LC 19), 37=237 (LC 19),
39=226 (LC 19), 40=164 (LC 19),
41=160 (LC 1), 42=158 (LC 19),
43=167 (LC 1), 44=132 (LC 19),
45=240 (LC 1), 46=100 (LC 19),
50=290 (LC 1)

WEBS 12-35=-129/22, 11-36=-221/61,
10-37=-209/71, 9-39=-198/66, 7-40=-137/67,
6-41=-132/67, 5-42=-131/67, 4-43=-135/68,
3-44=-118/64, 2-45=-174/121,
13-34=-217/61, 14-33=-206/71,
15-31=-168/66, 17-30=-132/67,
18-29=-133/67, 19-28=-132/67,
20-27=-132/67, 21-26=-132/68,
22-25=-136/69

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust)
Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat.
II; Exp B; Partially Enclosed; MWFRS (envelope)
exterior zone and C-C Corner(3E) 0-0-0 to 4-2-3,
Exterior(2N) 4-2-3 to 16-8-14, Corner(3R) 16-8-14 to
24-11-1, Exterior(2N) 24-11-1 to 39-7-13, Corner(3E)
39-7-13 to 43-10-0 zone; cantilever left and right
exposed ; end vertical left and right exposed;C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-134/76, 2-53=-98/59, 3-53=-91/70,
3-4=-72/71, 4-5=-66/85, 5-6=-58/106,
6-7=-51/126, 7-8=-67/147, 8-9=-60/150,
9-10=-83/183, 10-11=-100/218,
11-12=-116/249, 12-13=-116/249,
13-14=-100/218, 14-15=-83/183,
15-16=-60/150, 16-17=-67/147,
17-18=-51/117, 18-19=-36/84, 19-20=-36/51,
20-21=-36/26, 21-22=-50/25, 22-54=-78/48,
23-54=-84/42, 23-24=0/51
BOT CHORD 1-45=-42/129, 44-45=-42/129,
43-44=-42/129, 42-43=-42/129,
41-42=-42/129, 40-41=-42/129,
39-40=-42/129, 38-39=-42/129,
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29-30=-42/129, 28-29=-42/129,
27-28=-42/129, 26-27=-42/129,
25-26=-42/129, 23-25=-42/129



January 5, 2023

Continued on page 2

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



Job J1132071	Truss B01	Truss Type Common Supported Gable	Qty 1	Ply 1	Full Tilt Construction Job Reference (optional) I14581061
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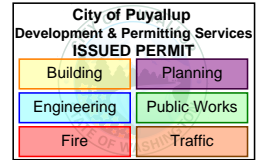
The Truss Company (Sumner), Sumner, WA - 98390,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Jan 05 10:43:22
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Page: 2

- 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 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 1.5x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 10 lb uplift at joint 1, 42 lb uplift at joint 36, 46 lb uplift at joint 37, 43 lb uplift at joint 39, 44 lb uplift at joint 40, 44 lb uplift at joint 41, 43 lb uplift at joint 42, 46 lb uplift at joint 43, 35 lb uplift at joint 44, 69 lb uplift at joint 45, 40 lb uplift at joint 34, 47 lb uplift at joint 33, 43 lb uplift at joint 31, 44 lb uplift at joint 30, 44 lb uplift at joint 29, 44 lb uplift at joint 28, 44 lb uplift at joint 27, 43 lb uplift at joint 26, 47 lb uplift at joint 25, 44 lb uplift at joint 23, 10 lb uplift at joint 1 and 44 lb uplift at joint 23.
- 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.

PRRAS20221937



LOAD CASE(S) Standard

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 J1132071	Truss B02	Truss Type Common	Qty 6	Ply 1	Full Tilt Construction Job Reference (optional)	114581062
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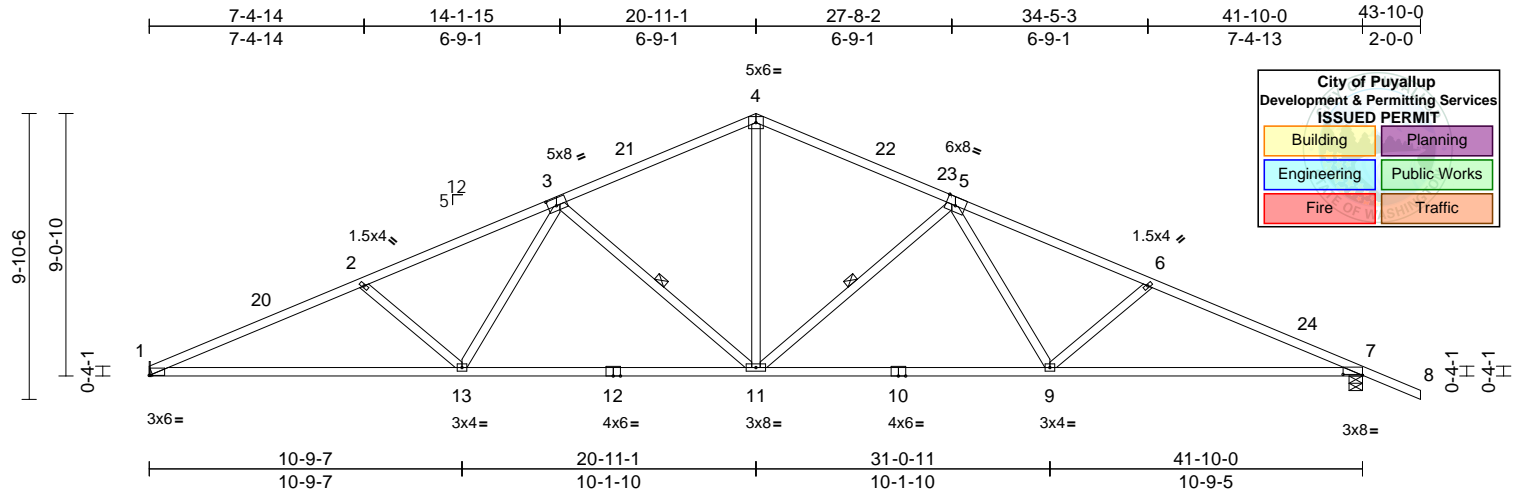
The Truss Company (Sumner), Sumner, WA - 98390,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Jan 05 10:43:23

Page: 1

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PRRAS20221937



Scale = 1:79.4

Plate Offsets (X, Y): [1:0-0-6,Edge], [3:0-3-8,0-3-0], [5:0-4-0,Edge], [7:0-8-0,0-0-6]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 25.0)	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.29	9-11	>999	360	MT20	185/148
TCDL	8.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.54	9-11	>934	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.16	7	n/a	n/a		
BCDL	7.0	Code	IRC2018/TPI2014	Matrix-MS								
											Weight: 176 lb	FT = 20%

LUMBER
TOP CHORD 2x4 DF No.1&Btr *Except* 5-8:2x4 HF No.2
BOT CHORD 2x4 DF No.1&Btr *Except* 12-10:2x4 HF No.2
WEBS 2x4 DF Stud *Except* 11-4,11-5,11-3:2x4 HF No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-1-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-9-2 oc bracing.
WEBS 1 Row at midpt 5-11, 3-11

REACTIONS (size) 1= Mechanical, 7=0-5-8
Max Horiz 1=-118 (LC 17)
Max Uplift 1=-266 (LC 12), 7=-292 (LC 13)
Max Grav 1=1670 (LC 1), 7=1808 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-20=-3666/599, 2-20=-3593/612, 2-3=-3294/563, 3-21=-2283/455, 4-21=-2190/470, 4-22=-2190/471, 22-23=-2269/455, 5-23=-2283/445, 5-6=-3270/545, 6-24=-3574/587, 7-24=-3649/565, 7-8=0/51
BOT CHORD 1-13=-573/3337, 12-13=-382/2686, 11-12=-382/2686, 10-11=-323/2677, 9-10=-323/2677, 7-9=-455/3299
WEBS 4-11=-184/1262, 5-11=-989/271, 5-9=-59/544, 6-9=-477/208, 3-11=-1035/274, 3-13=-65/567, 2-13=-500/212

NOTES

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Partially Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 4-2-3, Interior (1) 4-2-3 to 16-8-14, Exterior(2R) 16-8-14 to 25-1-4, Interior (1) 25-1-4 to 39-7-13, Exterior(2E) 39-7-13 to 43-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 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 266 lb uplift at joint 1 and 292 lb uplift at joint 7.
- 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.

LOAD CASE(S) Standard



January 5, 2023

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

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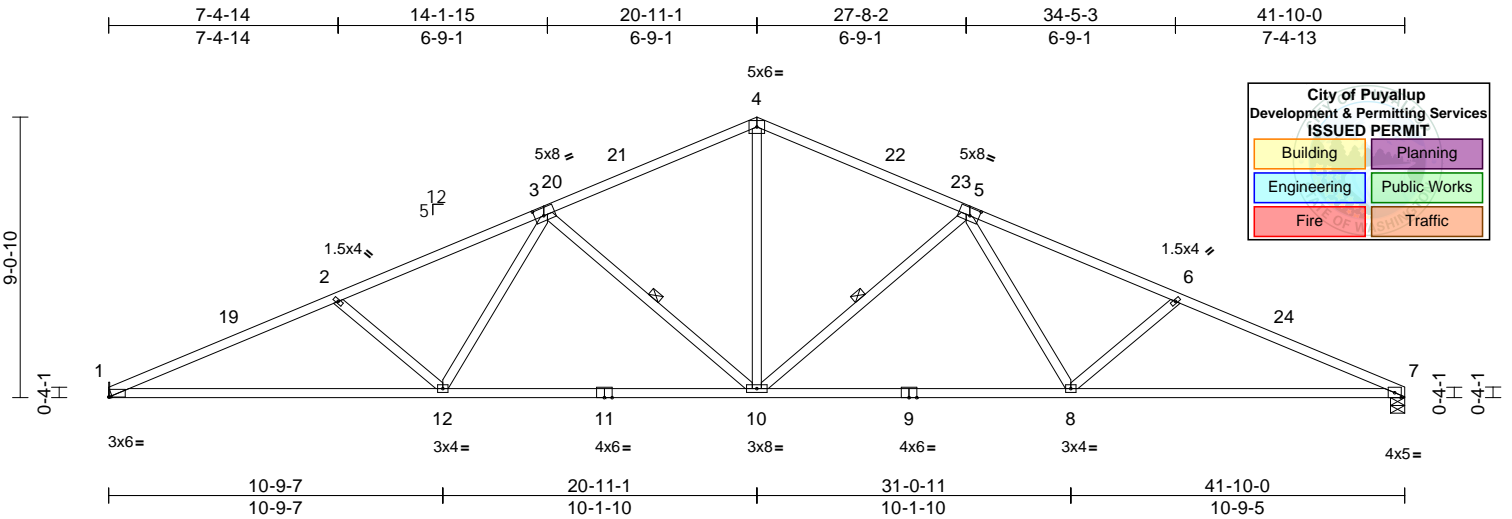
Job J1132071	Truss B03	Truss Type Common	Qty 4	Ply 1	Full Tilt Construction Job Reference (optional)	114581063
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The Truss Company (Sumner), Sumner, WA - 98390,

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Page: 1

PRRAS20221937



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

Scale = 1:74.4

Plate Offsets (X, Y): [1:0-0-6,Edge], [3:0-3-8,0-3-0], [5:0-3-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.27	10	>999	360	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.49	8-10	>999	240		
TCDL	8.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.17	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	7.0											
											Weight: 177 lb	FT = 20%

LUMBER

TOP CHORD 2x4 DF No.1&Btr
BOT CHORD 2x4 DF No.1&Btr *Except* 11-9:2x4 HF No.2
WEBS 2x4 DF Stud *Except* 10-4,10-5,10-3:2x4 HF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 8-8-3 oc bracing.

WEBS 1 Row at midpt 5-10, 3-10

REACTIONS (size) 1= Mechanical, 7=0-5-8

Max Horiz 1=99 (LC 12)

Max Uplift 1=-266 (LC 12), 7=-266 (LC 13)

Max Grav 1=1673 (LC 1), 7=1673 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-19=-3674/605, 2-19=-3602/618,

2-3=-3302/570, 3-20=-2291/452,

20-21=-2276/461, 4-21=-2198/477,

4-22=-2198/477, 22-23=-2276/462,

5-23=-2291/452, 5-6=-3300/570,

6-24=-3598/618, 7-24=-3671/605

BOT CHORD 1-12=-583/3344, 11-12=-392/2693,

10-11=-392/2693, 9-10=-368/2692,

8-9=-368/2692, 7-8=-507/3341

WEBS 4-10=-189/1268, 5-10=-1004/274,

5-8=-65/566, 6-8=-498/212, 3-10=-1005/274,

3-12=-65/568, 2-12=-500/212

NOTES

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Partially Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 4-2-3, Interior (1) 4-2-3 to 16-8-14, Exterior(2R) 16-8-14 to 25-1-4, Interior (1) 25-1-4 to 37-7-13, Exterior(2E) 37-7-13 to 41-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 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 266 lb uplift at joint 1 and 266 lb uplift at joint 7.
- 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.

LOAD CASE(S) Standard



January 5, 2023

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Job J1132071	Truss B04	Truss Type Common	Qty 1	Ply 1	Full Tilt Construction Job Reference (optional)	114581064
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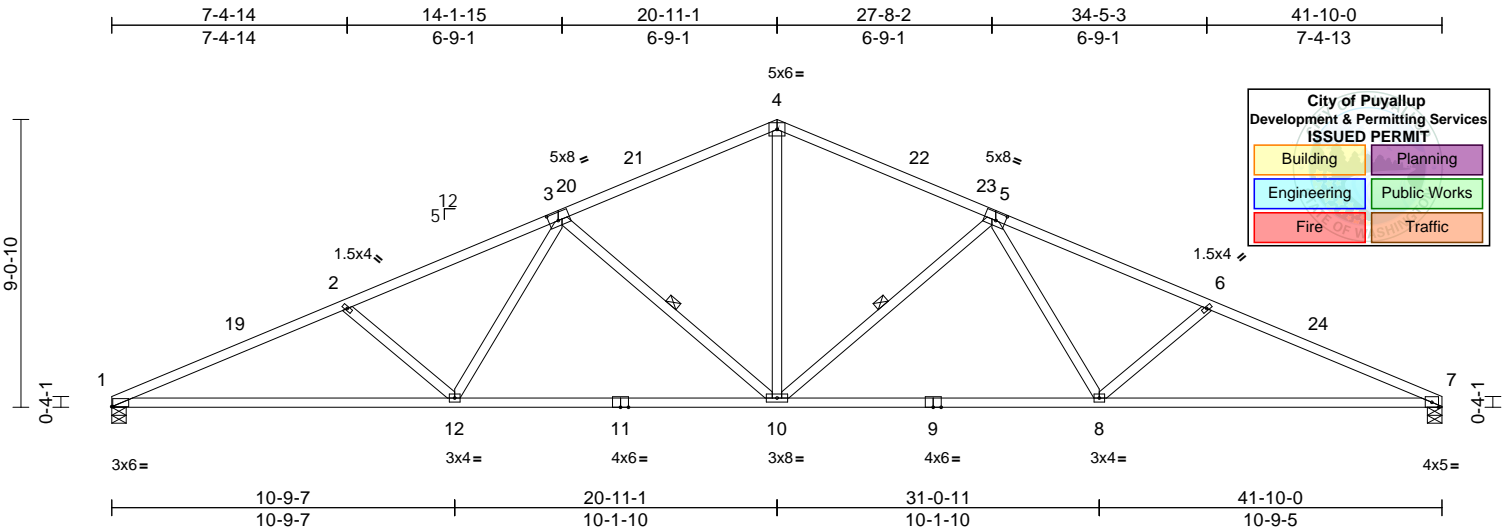
The Truss Company (Sumner), Sumner, WA - 98390,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Jan 05 10:43:23

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PRRAS20221937



Scale = 1:72.5

Plate Offsets (X, Y): [1:0-0-6,Edge], [3:0-3-8,0-3-0], [5:0-3-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 25.0)	25.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.27	10	>999	360	MT20	185/148
TCDL	8.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.49	8-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.17	7	n/a	n/a		
BCDL	7.0	Code	IRC2018/TPI2014	Matrix-MS								
											Weight: 177 lb	FT = 20%

LUMBER

TOP CHORD 2x4 DF No.1&Btr
 BOT CHORD 2x4 DF No.1&Btr *Except* 11-9:2x4 HF No.2
 WEBS 2x4 DF Stud *Except* 10-4,10-5,10-3:2x4 HF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 8-8-3 oc bracing.

WEBS 1 Row at midpt 5-10, 3-10

REACTIONS (size) 1=0-5-8, 7=0-5-8
 Max Horiz 1=99 (LC 12)
 Max Uplift 1=-266 (LC 12), 7=-266 (LC 13)
 Max Grav 1=1673 (LC 1), 7=1673 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-19=-3674/605, 2-19=-3602/618,
 2-3=-3302/570, 3-20=-2291/452,
 20-21=-2276/461, 4-21=-2198/477,
 4-22=-2198/477, 22-23=-2276/462,
 5-23=-2291/452, 5-6=-3300/570,
 6-24=-3598/618, 7-24=-3671/605

BOT CHORD 1-12=-583/3344, 11-12=-392/2693,
 10-11=-392/2693, 9-10=-368/2692,
 8-9=-368/2692, 7-8=-507/3341

WEBS 4-10=-189/1268, 5-10=-1004/274,
 5-8=-65/566, 6-8=-498/212, 3-10=-1005/274,
 3-12=-65/568, 2-12=-500/212

NOTES

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Partially Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 4-2-3, Interior (1) 4-2-3 to 16-8-14, Exterior(2R) 16-8-14 to 25-1-4, Interior (1) 25-1-4 to 37-7-13, Exterior(2E) 37-7-13 to 41-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 266 lb uplift at joint 1 and 266 lb uplift at joint 7.
- 7) 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.

LOAD CASE(S) Standard



January 5, 2023

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Job J1132071	Truss B05	Truss Type Common	Qty 6	Ply 1	Full Tilt Construction Job Reference (optional)	114581065
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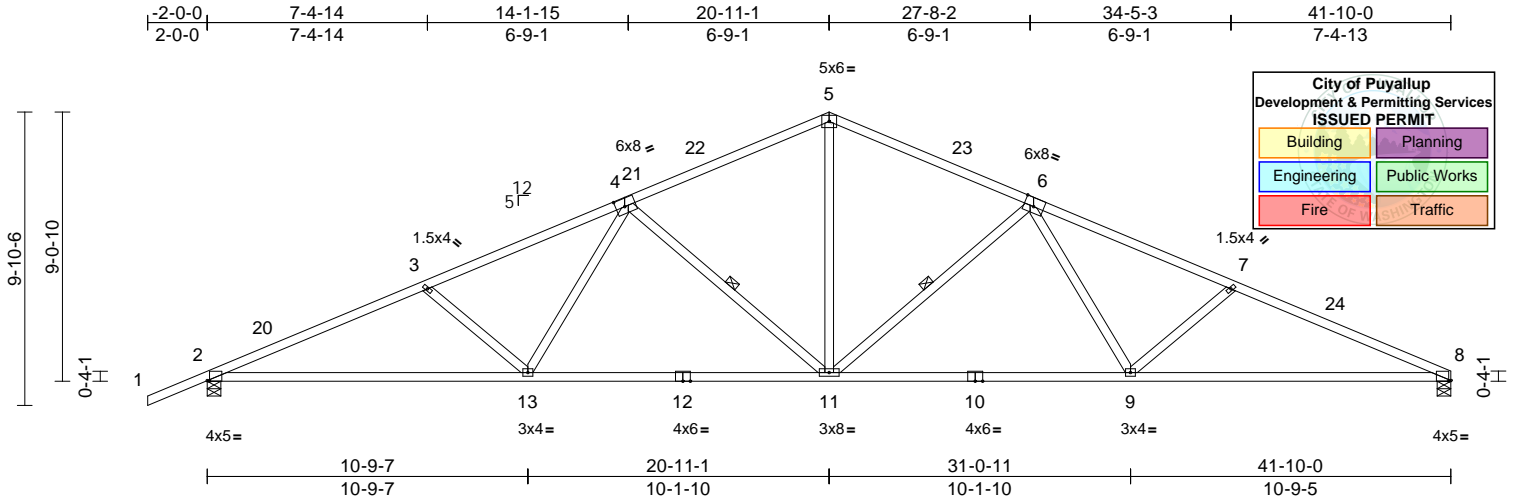
The Truss Company (Sumner), Sumner, WA - 98390,

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PRRAS20221937



Scale = 1:77.5

Plate Offsets (X, Y): [2:0-0-14,Edge], [4:0-3-8,0-3-4], [6:0-4-0,Edge], [8:0-0-14,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 25.0)	25.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.31	11-13	>999	360	MT20	185/148
TCDL	8.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.56	11-13	>895	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.16	8	n/a	n/a		
BCDL	7.0	Code	IRC2018/TPI2014	Matrix-MS								
											Weight: 174 lb	FT = 20%

LUMBER

TOP CHORD 2x4 DF No.1&Btr *Except* 1-4,6-8:2x4 HF No.2
 BOT CHORD 2x4 DF No.1&Btr *Except* 12-10:2x4 HF No.2
 WEBS 2x4 DF Stud *Except* 11-5,11-6,11-4:2x4 HF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied or 8-9-8 oc bracing.
 WEBS 1 Row at midpt 6-11, 4-11

REACTIONS

(size) 2=0-5-8, 8=0-5-8
 Max Horiz 2=118 (LC 12)
 Max Uplift 2=-292 (LC 12), 8=-266 (LC 13)
 Max Grav 2=1808 (LC 1), 8=1670 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/51, 2-20=-3652/565, 3-20=-3577/587,
 3-4=-3273/545, 4-21=-2283/445,
 21-22=-2268/455, 5-22=-2190/471,
 5-23=-2190/470, 6-23=-2283/455,
 6-7=-3292/563, 7-24=-3588/611,
 8-24=-3661/598
 BOT CHORD 2-13=-573/3302, 12-13=-388/2677,
 11-12=-388/2677, 10-11=-361/2685,
 9-10=-361/2685, 8-9=-501/3330
 WEBS 5-11=-184/1262, 6-11=-1029/274,
 6-9=-65/566, 7-9=-493/212, 4-11=-990/271,
 4-13=-60/546, 3-13=-479/208

NOTES

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Partially Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-0 to 2-2-3, Interior (1) 2-2-3 to 16-8-14, Exterior(2R) 16-8-14 to 25-1-4, Interior (1) 25-1-4 to 37-7-13, Exterior(2E) 37-7-13 to 41-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 0.0psf on the bottom chord in all areas where a rectangle 0-00 tall by 0-00 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 292 lb uplift at joint 2 and 266 lb uplift at joint 8.
- 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.

LOAD CASE(S) Standard



January 5, 2023

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

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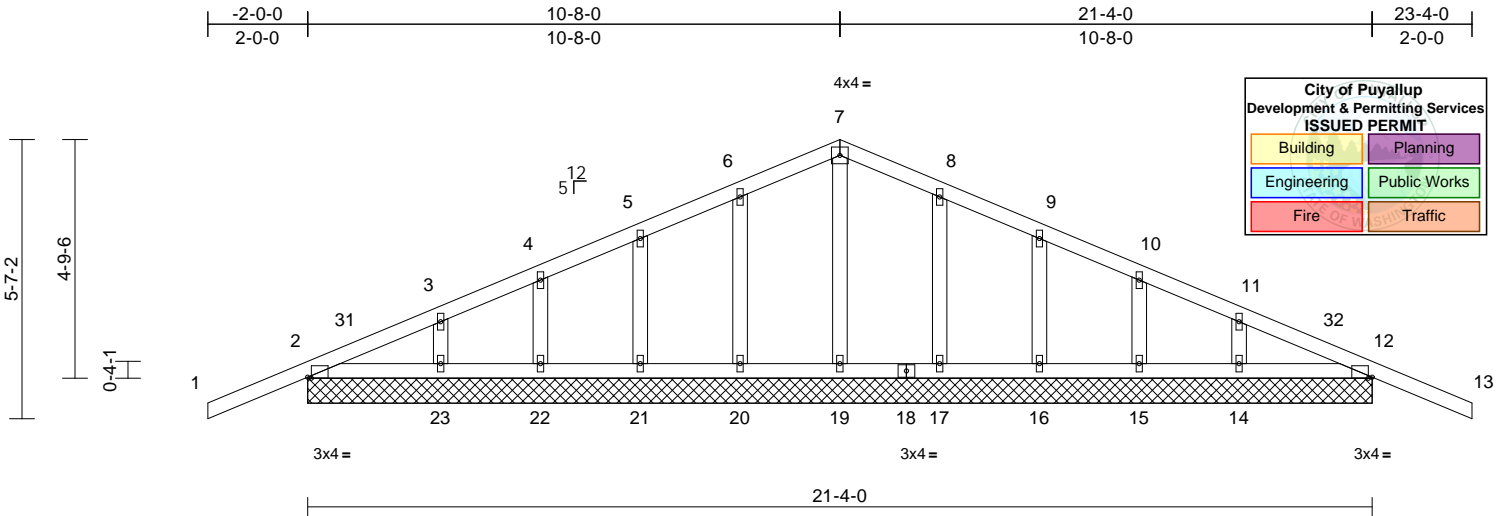
Job J1132071	Truss C01	Truss Type Common Supported Gable	Qty 1	Ply 1	Full Tilt Construction Job Reference (optional)	I14581066
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The Truss Company (Sumner), Sumner, WA - 98390,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Jan 05 10:43:24
ID:48GBTknprauhCEHV5FRxy6n_c-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCdoi7J4zJC?f

Page: 1

PRRAS20221937



Scale = 1:46.2

Plate Offsets (X, Y): [2:0-0-14,Edge], [12:0-0-14,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	8.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	28	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	7.0											
											Weight: 86 lb	FT = 20%

LUMBER
TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
OTHERS 2x4 DF 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 (size)
2=21-4-0, 12=21-4-0, 14=21-4-0, 15=21-4-0, 16=21-4-0, 17=21-4-0, 19=21-4-0, 20=21-4-0, 21=21-4-0, 22=21-4-0, 23=21-4-0, 24=21-4-0, 28=21-4-0
Max Horiz 2=-60 (LC 13), 24=-60 (LC 13)
Max Uplift 2=-57 (LC 8), 12=-60 (LC 9), 14=-41 (LC 13), 15=-45 (LC 13), 16=-44 (LC 13), 17=-46 (LC 13), 20=-47 (LC 12), 21=-43 (LC 12), 22=-45 (LC 12), 23=-41 (LC 12), 24=-57 (LC 8), 28=-60 (LC 9)
Max Grav 2=287 (LC 19), 12=287 (LC 20), 14=137 (LC 1), 15=204 (LC 20), 16=228 (LC 20), 17=245 (LC 20), 19=139 (LC 19), 20=245 (LC 19), 21=228 (LC 19), 22=204 (LC 19), 23=137 (LC 1), 24=287 (LC 19), 28=287 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/51, 2-31=-82/115, 3-31=-50/45, 3-4=-48/47, 4-5=-49/67, 5-6=-49/98, 6-7=-60/132, 7-8=-60/132, 8-9=-49/98, 9-10=-49/66, 10-11=-36/30, 11-32=-31/25, 12-32=-40/18, 12-13=0/51

BOT CHORD 2-23=-128/112, 22-23=-17/76, 21-22=-17/76, 20-21=-17/76, 19-20=-17/76, 18-19=-17/76, 17-18=-17/76, 16-17=-17/76, 15-16=-17/76, 14-15=-17/76, 12-14=-17/76
WEBS 7-19=-111/0, 6-20=-217/68, 5-21=-202/66, 4-22=-171/72, 3-23=-122/60, 8-17=-217/68, 9-16=-202/66, 10-15=-171/72, 11-14=-122/60

- NOTES**
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Partially Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 2-0-0 to 1-0-0, Exterior(2N) 1-0-0 to 7-8-0, Corner(3R) 7-8-0 to 13-8-0, Exterior(2N) 13-8-0 to 20-4-0, Corner(3E) 20-4-0 to 23-4-0 zone; cantilever left and right exposed; and vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) 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 1.5x4 MT20 unless otherwise indicated.
 - 7) Gable requires continuous bottom chord bearing.
 - 8) Gable studs spaced at 2-0-0 oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 10) * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 57 lb uplift at joint 2, 60 lb uplift at joint 12, 47 lb uplift at joint 20, 43 lb uplift at joint 21, 45 lb uplift at joint 22, 41 lb uplift at joint 23, 46 lb uplift at joint 17, 44 lb uplift at joint 16, 45 lb uplift at joint 15, 41 lb uplift at joint 14, 57 lb uplift at joint 2 and 60 lb uplift at joint 12.
 - 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.
- LOAD CASE(S)** Standard



January 5, 2023

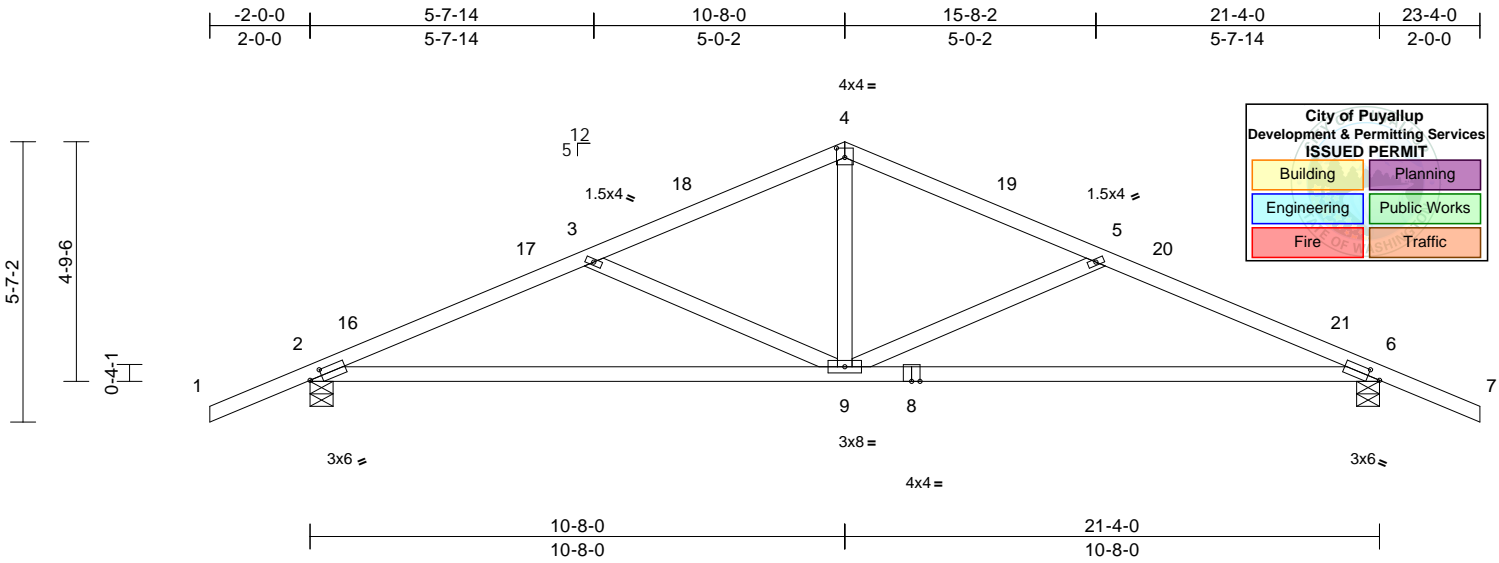
Job J1132071	Truss C02	Truss Type Common	Qty 1	Ply 1	Full Tilt Construction Job Reference (optional)	114581067
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The Truss Company (Sumner), Sumner, WA - 98390,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Jan 05 10:43:24
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Page: 1

PRRAS20221937



Scale = 1:46

Plate Offsets (X, Y): [2:0-3:0,0-1-8], [4:0-2:0,0-2-4], [6:0-3:0,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 25.0)	25.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.22	9-12	>999	360	MT20	185/148
TCDL	8.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.40	9-12	>638	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.05	6	n/a	n/a		
BCDL	7.0	Code	IRC2018/TPI2014	Matrix-MS								
											Weight: 78 lb	FT = 20%

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

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

REACTIONS (size) 2=0-5-8, 6=0-5-8
Max Horiz 2=60 (LC 13)
Max Uplift 2=162 (LC 12), 6=162 (LC 13)
Max Grav 2=1032 (LC 19), 6=1032 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/51, 2-16=-1783/328, 16-17=-1780/330, 3-17=-1676/346, 3-18=-1198/235, 4-18=-1123/247, 4-19=-1123/247, 5-19=-1198/235, 5-20=-1676/346, 20-21=-1780/330, 6-21=-1783/328, 6-7=0/51
BOT CHORD 2-9=-252/1613, 8-9=-230/1613, 6-8=-230/1613
WEBS 4-9=-47/556, 5-9=-668/199, 3-9=-668/199

- 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 23.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 162 lb uplift at joint 2 and 162 lb uplift at joint 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.

LOAD CASE(S) Standard

- NOTES**
- Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Partially Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 7-8-0, Exterior(2R) 7-8-0 to 13-8-0, Interior (1) 13-8-0 to 20-4-0, Exterior(2E) 20-4-0 to 23-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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



January 5, 2023

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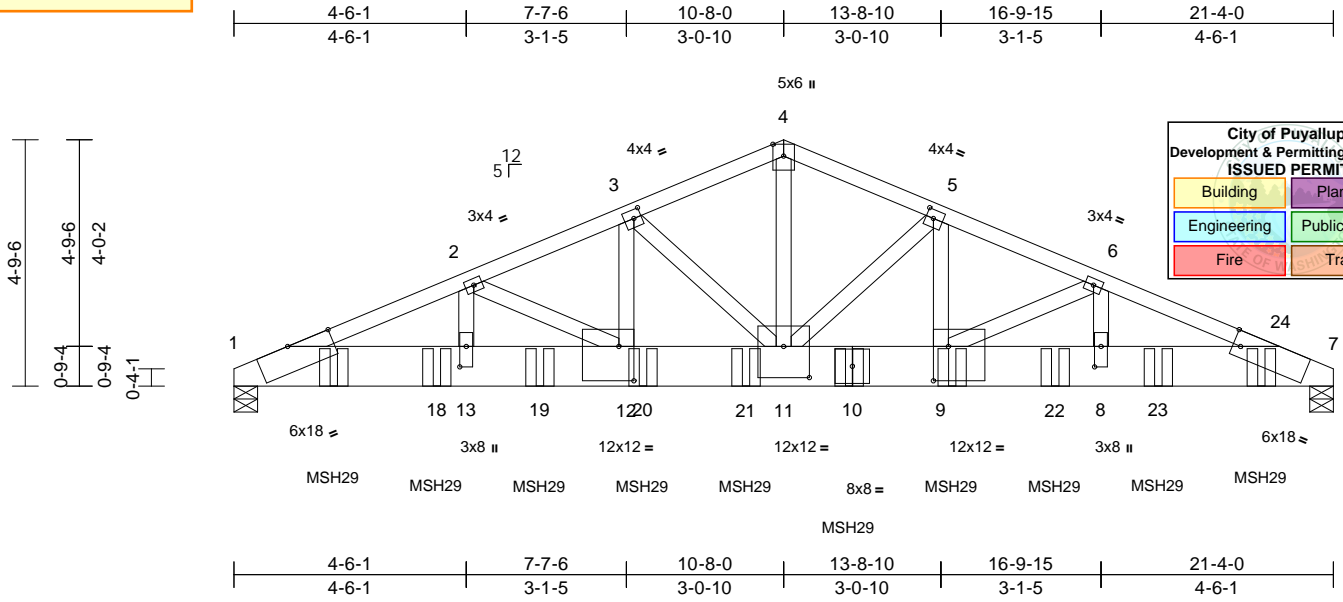
Job J1132071	Truss C03	Truss Type Common Girder	Qty 1	Ply 3	Full Tilt Construction Job Reference (optional)	I14581068
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The Truss Company (Sumner), Sumner, WA - 98390,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Jan 05 10:43:25
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Page: 1

PRRAS20221937



Scale = 1:44.7

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.24	9-11	>999	360	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.38	9-11	>665	240		
TCDL	8.0	Rep Stress Incr	NO	WB	0.67	Horz(CT)	0.07	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	7.0											
											Weight: 400 lb	FT = 20%

LUMBER
TOP CHORD 2x4 HF No.2
BOT CHORD 2x10 DF SS
WEBS 2x4 DF Stud *Except* 11-4:2x4 HF No.2

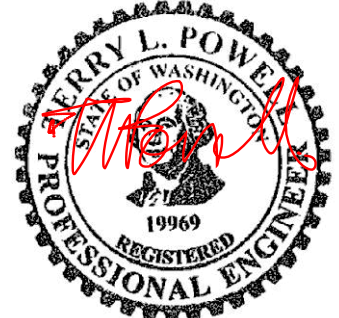
BRACING
TOP CHORD Structural wood sheathing directly applied or 4-3-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS
(size) 1=0-5-8, 7=0-5-8
Max Horiz 1=49 (LC 14)
Max Uplift 1=-1471 (LC 10), 7=-1535 (LC 11)
Max Grav 1=8974 (LC 16), 7=9365 (LC 17)

FORCES
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-18446/3020, 2-3=-16154/2651, 3-4=-12839/2131, 4-5=-12839/2133, 5-6=-16209/2658, 6-7=-18552/3035
BOT CHORD 1-18=-2788/16972, 13-18=-2788/16972, 13-19=-2788/16972, 12-19=-2788/16972, 12-20=-2411/14883, 20-21=-2411/14883, 11-21=-2411/14883, 10-11=-2368/14933, 9-10=-2368/14933, 9-22=-2753/17070, 8-22=-2753/17070, 8-23=-2753/17070, 7-23=-2753/17070, 7-24=-2256/14015, 7-24=-2237/13897
WEBS 2-13=-289/1872, 2-12=-2372/429, 3-12=-637/3958, 3-11=-4304/738, 4-11=-1569/9585, 5-11=-4374/749, 5-9=-647/4029, 6-9=-2427/437, 6-8=-295/1914

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-4-0 oc.
Bottom chords connected as follows: 2x10 - 4 rows staggered at 0-4-0 oc.
Web connected as follows: 2x4 - 2 rows staggered at 0-4-0 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; Partially Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 23.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1471 lb uplift at joint 1 and 1535 lb uplift at joint 7.
- 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 MSH29 (With 18-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-11-4 from the left end to 19-11-4 to connect truss(es) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
- LOAD CASE(S)** Standard
- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-66, 4-7=-66, 1-7=-14
Concentrated Loads (lb)
Vert: 10=-1656 (B), 9=-1659 (B), 14=-1656 (B), 18=-1656 (B), 19=-1656 (B), 20=-1656 (B), 21=-1656 (B), 22=-1659 (B), 23=-1659 (B), 24=-1659 (B)



January 5, 2023

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Job J1132071	Truss D01	Truss Type Scissor	Qty 8	Ply 1	Full Tilt Construction Job Reference (optional)	114581069
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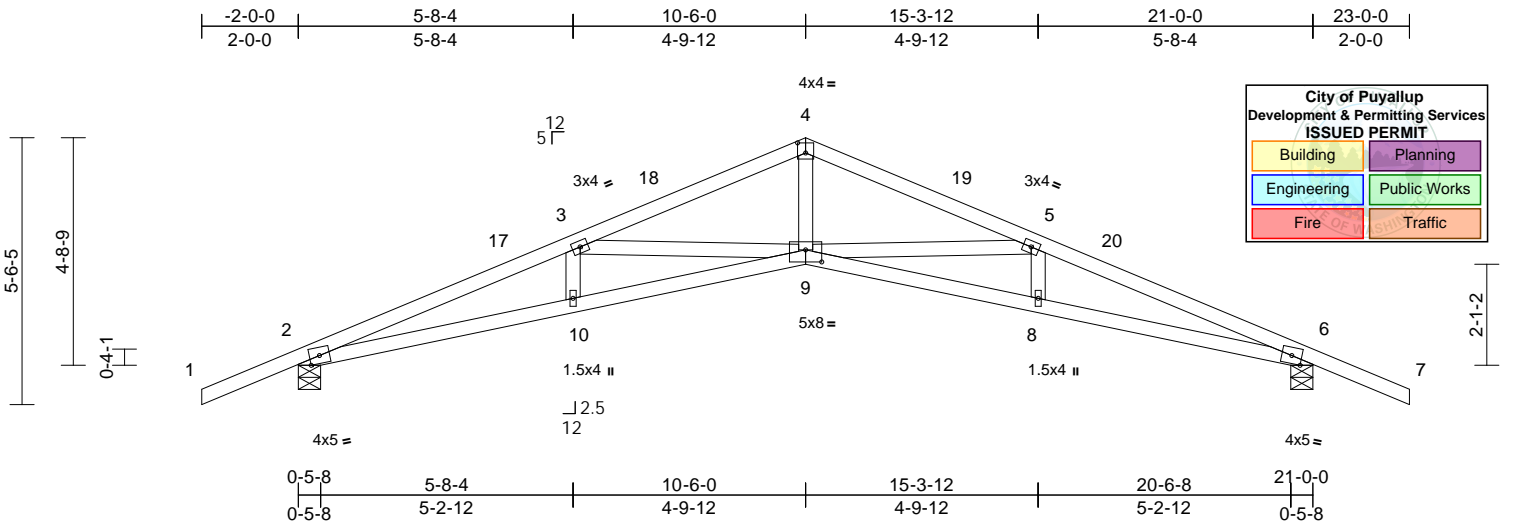
The Truss Company (Sumner), Sumner, WA - 98390,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Jan 05 10:43:25

Page: 1

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PRRAS20221937



Scale = 1:47.7

Plate Offsets (X, Y): [4:0-2-0,0-2-8], [9:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.28	9-10	>914	360	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.45	9-10	>563	240		
TCDL	8.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.26	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MS								
BCDL	7.0											
											Weight: 75 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-7 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 8-11-3 oc bracing.

REACTIONS

(size) 2=0-5-8, 6=0-5-8
 Max Horiz 2=-59 (LC 13)
 Max Uplift 2=-160 (LC 12), 6=-160 (LC 13)
 Max Grav 2=1021 (LC 19), 6=1021 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/51, 2-17=-3076/458, 3-17=-2987/474,
 3-18=-2116/342, 4-18=-2057/353,
 4-19=-2057/353, 5-19=-2116/342,
 5-20=-2987/474, 6-20=-3076/458, 6-7=0/51
 BOT CHORD 2-10=-402/2838, 9-10=-403/2849,
 8-9=-361/2849, 6-8=-357/2838
 WEBS 4-9=-140/1255, 5-9=-939/238, 3-9=-939/231,
 3-10=0/151, 5-8=0/151

NOTES

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust)
 Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Partially Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -2-0-0 to 0-10-7, Interior (1) 0-10-7 to 7-6-0, Exterior(2R) 7-6-0 to 13-6-0, Interior (1) 13-6-0 to 20-0-0, Exterior(2E) 20-0-0 to 23-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; 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 23.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 6, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 160 lb uplift at joint 6 and 160 lb uplift at joint 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.

LOAD CASE(S) Standard



January 5, 2023

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

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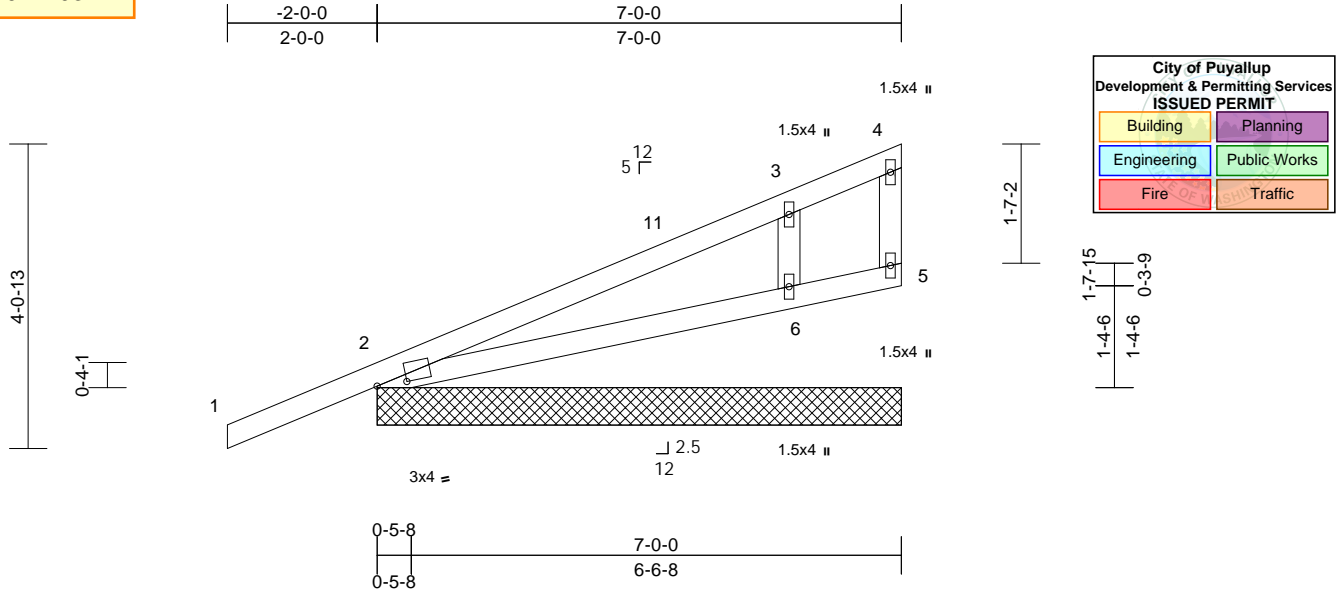
Job J1132071	Truss M01	Truss Type Monopitch	Qty 2	Ply 1	Full Tilt Construction Job Reference (optional)	114581070
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The Truss Company (Sumner), Sumner, WA - 98390,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Jan 05 10:43:25
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Page: 1

PRRAS20221937



Scale = 1:30.8

Plate Offsets (X, Y): [2:0-4-13,0-0-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.25	Vert(CT)	n/a	-	n/a	999		
TCDL	8.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	7.0											
											Weight: 23 lb	FT = 20%

LUMBER

TOP CHORD 2x4 HF No.2
BOT CHORD 2x4 HF No.2
WEBS 2x4 DF Stud
OTHERS 2x4 DF 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 6-0-0 oc bracing.

REACTIONS

(size) 2=7-0-0, 5=7-0-0, 6=7-0-0, 7=7-0-0
Max Horiz 2=88 (LC 9), 7=88 (LC 9)
Max Uplift 2=-52 (LC 8), 5=-67 (LC 19),
6=-114 (LC 12), 7=-52 (LC 8)
Max Grav 2=402 (LC 19), 5=52 (LC 12),
6=596 (LC 19), 7=402 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/51, 2-11=-181/154, 3-11=-74/107,
3-4=-89/46, 4-5=-46/96
BOT CHORD 2-6=-172/133, 5-6=-23/36
WEBS 3-6=-510/283

NOTES

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Partially Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -2-0-0 to 0-10-7, Exterior(2N) 0-10-7 to 3-10-4, Corner(3E) 3-10-4 to 6-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Bearing at joint(s) 2, 5, 6, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 2, 67 lb uplift at joint 5, 114 lb uplift at joint 6 and 52 lb uplift at joint 2.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 6.
- 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.

LOAD CASE(S) Standard



January 5, 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 ANSITPI Quality Criteria, DSB-89 and BCS11 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



Job J1132071	Truss PB01	Truss Type Piggyback	Qty 1	Ply 1	Full Tilt Construction Job Reference (optional) I14581071
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The Truss Company (Sumner), Sumner, WA - 98390,

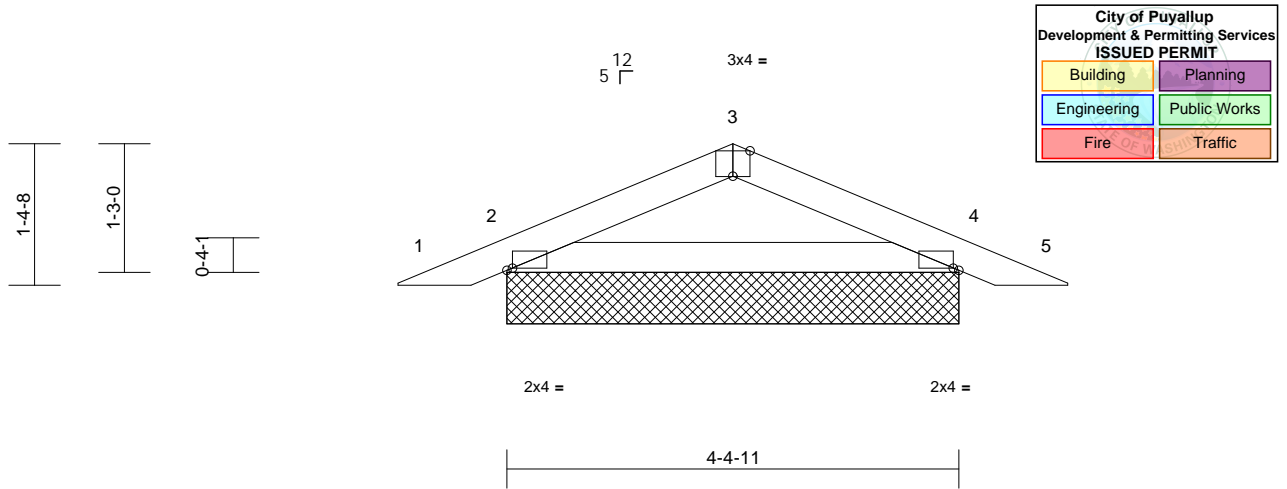
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Page: 1

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-1-0-11	2-2-6	4-4-11	5-5-6
1-0-11	2-2-6	2-2-6	1-0-11



Scale = 1:22.4

Plate Offsets (X, Y): [2:0-0-10,Edge], [3:0-2-0,Edge], [4:0-0-10,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	185/148
(Roof Snow = 25.0)		Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	8.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	7.0											
										Weight: 13 lb	FT = 20%	

LUMBER

TOP CHORD 2x4 HF No.2
BOT CHORD 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.

REACTIONS

(size) 2=4-4-11, 4=4-4-11, 6=4-4-11, 10=4-4-11
Max Horiz 2=14 (LC 16), 6=14 (LC 16)
Max Uplift 2=-37 (LC 12), 4=-33 (LC 13), 6=-37 (LC 12), 10=-33 (LC 13)
Max Grav 2=270 (LC 19), 4=278 (LC 20), 6=270 (LC 19), 10=278 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/25, 2-3=-188/95, 3-4=-188/93, 4-5=0/25
BOT CHORD 2-4=-38/165

NOTES

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TC DL=4.8psf; BC DL=4.2psf; h=25ft; Cat. II; Exp B; Partially Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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 4-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 37 lb uplift at joint 2, 33 lb uplift at joint 4, 37 lb uplift at joint 2 and 33 lb uplift at joint 4.
- 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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



January 5, 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 ANSITPI1 Quality Criteria, DSB-89 and BCS11 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



Job J1132071	Truss PB02	Truss Type Piggyback	Qty 4	Ply 1	Full Tilt Construction Job Reference (optional)	I14581072
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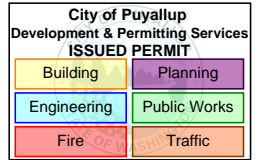
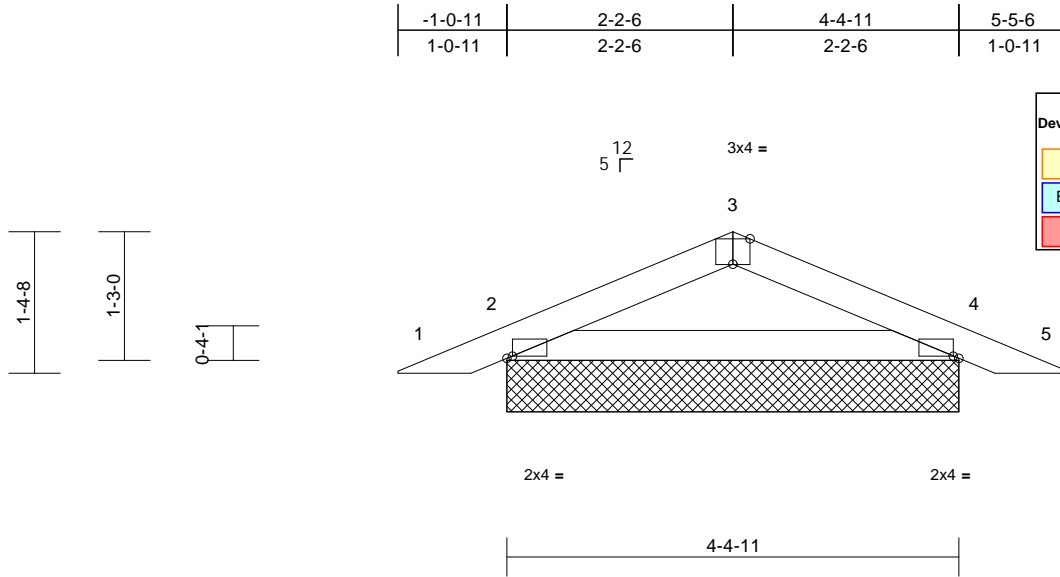
The Truss Company (Sumner), Sumner, WA - 98390,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Jan 05 10:43:26

Page: 1

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PRRAS20221937



Scale = 1:22.4

Plate Offsets (X, Y): [2:0-0-10,Edge], [3:0-2-0,Edge], [4:0-0-10,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (Roof Snow = 25.0)	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	185/148
TCDL	8.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	10	n/a	n/a		
BCDL	7.0	Code	IRC2018/TPI2014	Matrix-MP								
											Weight: 13 lb	FT = 20%

LUMBER

TOP CHORD 2x4 HF No.2
BOT CHORD 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.

REACTIONS

(size) 2=4-4-11, 4=4-4-11, 6=4-4-11, 10=4-4-11
Max Horiz 2=14 (LC 16), 6=14 (LC 16)
Max Uplift 2=-37 (LC 12), 4=-33 (LC 13), 6=-37 (LC 12), 10=-33 (LC 13)
Max Grav 2=270 (LC 19), 4=278 (LC 20), 6=270 (LC 19), 10=278 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/25, 2-3=-188/95, 3-4=-188/93, 4-5=0/25
BOT CHORD 2-4=-38/165

NOTES

- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCDL=4.8psf; BCDL=4.2psf; h=25ft; Cat. II; Exp B; Partially Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
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- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 4-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 23.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
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- 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) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



January 5, 2023

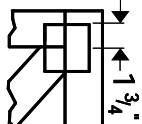
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE.

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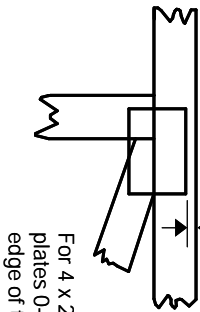


Symbols

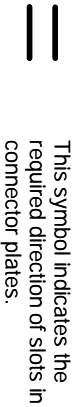
PLATE LOCATION AND ORIENTATION



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.



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

PLATE SIZE

4 X 4

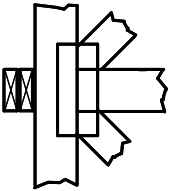
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

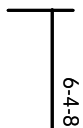


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

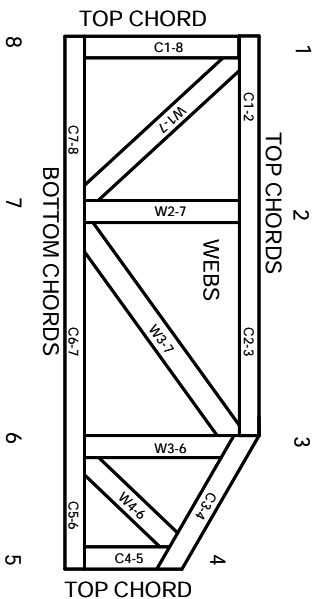
Industry Standards:

- 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



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.

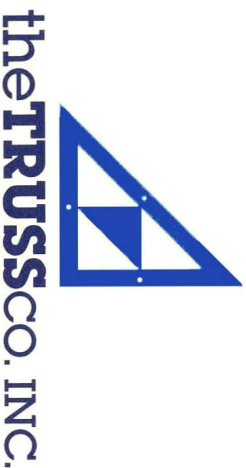
CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

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

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

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCS11.
- 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- 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.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TP 1 Quality Criteria.