

Job R2601144M2	Truss PB01GE	Truss Type Common Structural Gable	Qty 2	Ply 1	Seventh Day Adventist - 70' Truss
			Job Reference (optional)		

Truss Components of WA, Tumwater, WA 98512, ryan

Run: 25.40 S Jan 8 2026 Print: 25.4.0 S Jan 8 2026 MiTek Industries, Inc. Thu Feb 26 08:39:58

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City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building

Planning

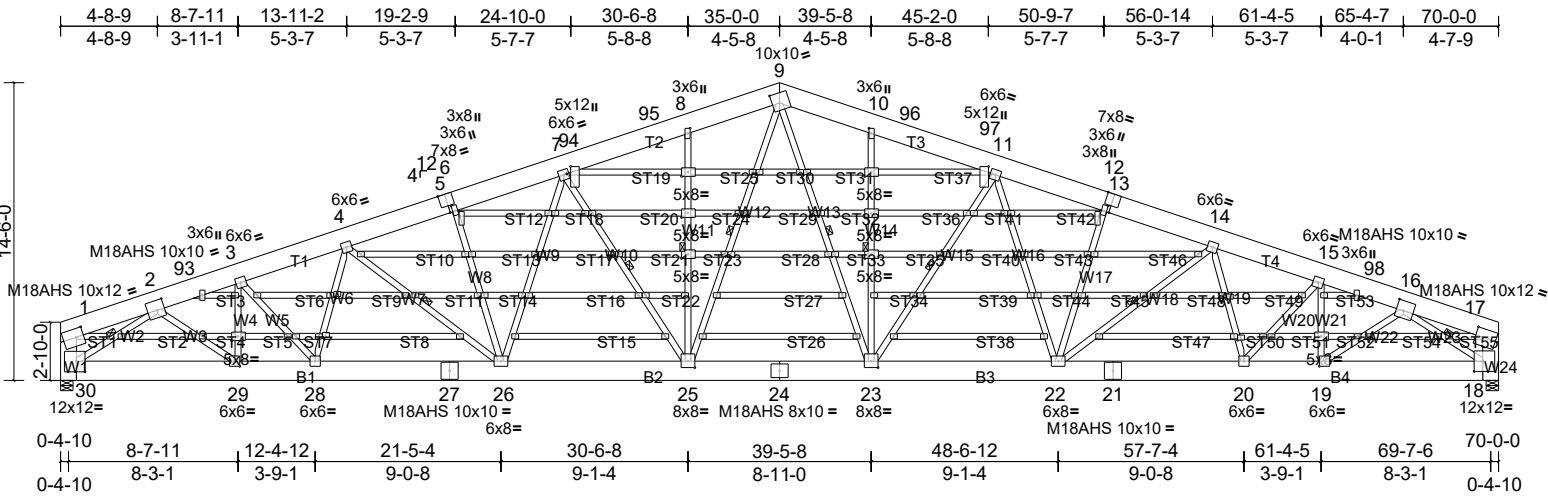
Engineering

Public Works

Fire

Traffic

PRCP20260571



Scale = 1:112.6	
Plate Offsets (X, Y):	[1:0-4-4,0-5-0], [2:0-4-4,0-5-12], [5:0-4-0,Edge], [6:0-3-8,0-1-8], [6:0-2-12,0-0-9], [7:0-4-4,0-2-4], [8:0-3-0,0-1-4], [9:0-4-4,0-5-12], [10:0-3-0,0-1-4], [11:0-4-4,0-2-4], [12:0-3-8,0-1-8], [12:0-2-12,0-0-9], [13:0-4-0,Edge], [16:0-4-4,0-5-12], [17:0-4-4,0-5-0], [18:0-5-0,0-6-0], [19:0-2-12,0-3-0], [23:0-4-0,0-3-12], [25:0-4-0,0-3-12], [29:0-2-12,0-3-0], [30:0-5-0,0-6-4], [33:0-3-12,0-2-8], [35:0-1-0,0-1-0], [44:0-2-0,0-0-8], [46:0-3-12,0-2-8], [51:0-1-0,0-1-0], [54:0-1-11,0-1-8], [55:0-1-11,0-1-8], [62:0-1-11,0-1-8], [63:0-1-11,0-1-8], [66:0-2-0,0-0-8], [69:0-1-11,0-1-8], [71:0-1-11,0-1-8], [73:0-3-12,0-2-8], [74:0-1-11,0-1-8], [75:0-1-11,0-1-8], [76:0-3-12,0-2-8], [78:0-1-11,0-1-8], [80:0-1-11,0-1-8], [81:0-1-11,0-1-8], [83:0-3-12,0-2-8], [84:0-1-11,0-1-8], [85:0-1-11,0-1-8], [86:0-3-12,0-2-8], [88:0-1-11,0-1-8], [89:0-3-12,0-2-8], [90:0-1-11,0-1-8], [91:0-1-11,0-1-8], [92:0-3-12,0-2-8]

Loading	(psf)	Spacing	6-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.66	25-26	>999	240	MT20	220/195
(Roof Snow = 30.0)		Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.79	25-26	>999	180	M18AHS	169/162
TCDL	5.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.28	18	n/a	n/a		
BCLL	0.0	Code	IBC2021/TPI2014	Matrix-S								
BCDL	1.0											
											Weight: 1136 lb FT = 10%	

LUMBER
TOP CHORD 2x12 DF SS
BOT CHORD 2x12 DF SS
WEBS 2x4 DF No.2 *Except* W1,W24:2x10 DF SS, W10,W15,W22,W23,W2:2x4 DF 2100F 1.8E
OTHERS 2x4 DF No.2

BRACING
TOP CHORD 2-0-0 oc purlins (3-0-6 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 6-2-12 oc bracing.
WEBS 1 Row at midpt 8-25, 7-25, 9-25, 10-23, 14-22, 4-26, 9-23, 11-23, 16-18, 2-30

REACTIONS (lb/size) 18=7477/0-7-4, (min. 0-2-9), 30=7477/0-7-4, (min. 0-2-9)
Max Horiz 30=-226 (LC 14)
Max Uplift 18=-2094 (LC 10), 30=-2094 (LC 9)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2057/721, 2-93=-11842/3642, 3-93=-11757/3657, 3-4=-12989/4077, 4-5=-13129/4163, 5-6=-12804/4165, 6-7=-12774/4205, 7-94=-11355/3805, 94-95=-11315/3828, 8-95=-11056/3836, 8-9=-11083/3919, 9-10=-11083/3919, 10-96=-11056/3835, 96-97=-11315/3828, 11-97=-11355/3805, 11-12=-12774/4205, 12-13=-12804/4166, 13-14=-13095/4163, 14-15=-12995/4079, 15-98=-11768/3663, 16-98=-11858/3647, 16-17=-2034/714, 1-30=-1715/561, 17-18=-1721/559
BOT CHORD 29-30=-2624/8479, 28-29=-3377/11217, 27-28=-3686/12452, 26-27=-3686/12452, 25-26=-3351/11750, 24-25=-2585/9671, 23-24=-2585/9671, 22-23=-3322/11750, 21-22=-3651/12450, 20-21=-3651/12450, 19-20=-3340/11238, 18-19=-2542/8379
WEBS 3-29=-2777/817, 6-26=-845/325, 7-26=-479/1043, 8-25=-1088/203, 7-25=-2898/990, 9-25=-1065/3769, 10-23=-1088/201, 12-22=-847/324, 11-22=-479/1044, 14-22=-340/482, 15-19=-2792/826, 4-26=-344/479, 2-29=-1012/3645, 9-23=-1064/3769, 14-20=-1082/294, 4-28=-1096/299, 11-23=-2898/991, 3-28=-401/1586, 15-20=-393/1554, 16-19=-1049/3757, 16-18=-8737/2630, 2-30=-8792/2650

NOTES
1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TC DL=3.0psf; BCDL=0.6psf; h=15ft; Cat. II; Exp B; Partially Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-10 to 6-4-10, Interior (1) 6-4-10 to 35-0-0, Exterior(2R) 35-0-0 to 41-0-0, Interior (1) 41-0-0 to 69-7-6 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=30.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.20; IBC 1607.11.2 minimum roof live load applied where required.
4) Unbalanced snow loads have been considered for this design.

Job	Truss	Truss Type	Qty	Ply	Seventh Day Adventist - 70' Truss
R2601144M2	PB01GE	Common Structural Gable	2	1	Job Reference (optional)

- 5) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 6) The bottom chord dead load shown is sufficient only to cover the truss weight itself and does not allow for any additional load to be added to the bottom chord.
- 7) Dead loads shown include weight of truss. Top chord dead load of 5.0 psf (or less) is not adequate for a shingle roof. Architect to verify adequacy of top chord dead load.
- 8) All plates are MT20 plates unless otherwise indicated.
- 9) All plates are 3x4 (=) MT20 unless otherwise indicated.
- 10) Horizontal gable studs spaced at 2'-0" oc.
- 11) Bearing at joint(s) 30, 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2094 lb uplift at joint 30 and 2094 lb uplift at joint 18.

LOAD CASE(S) Standard

Job R2601144M2	Truss PB02	Truss Type Common	Qty 10	Ply 1	Seventh Day Adventist - 70' Truss
			Job Reference (optional)		

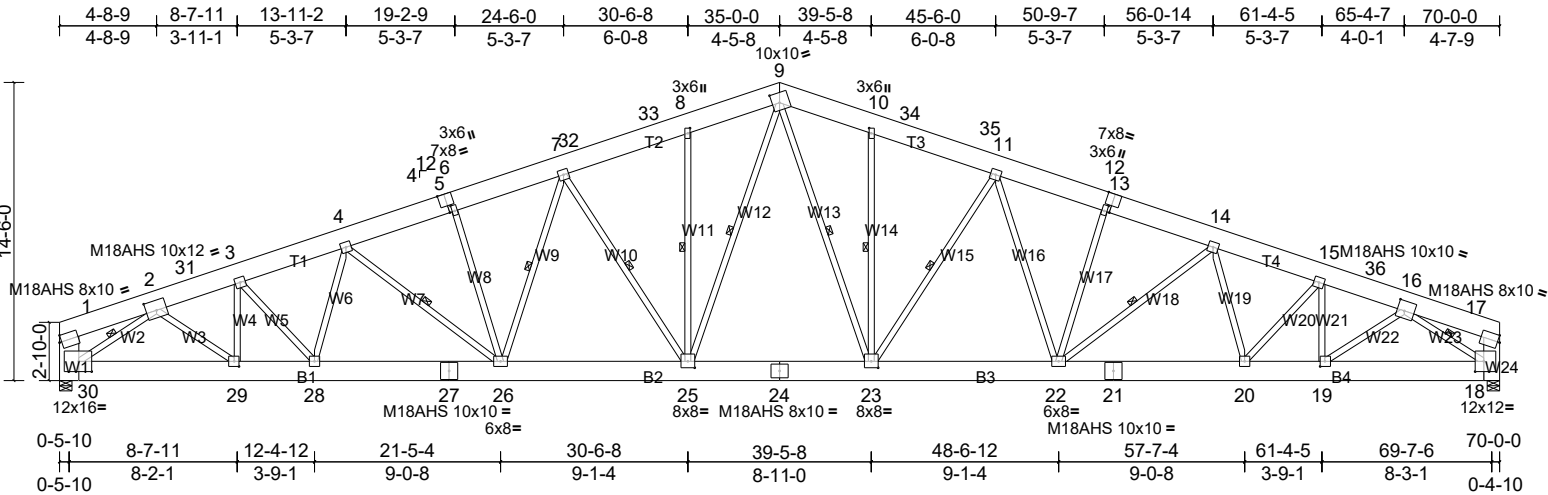
Truss Components of WA, Tumwater, WA 98512, ryan

Run: 25.40 S Jan 8 2026 S Jan 8 2026 Print: 25.4.0 S Jan 8 2026 MiTek Industries, Inc. Thu Feb 26 08:40:01

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PRCP20260571



Scale = 1:112.5

Plate Offsets (X, Y): [2:0-6-0,0-5-12], [5:0-4-0,Edge], [6:0-3-8,0-1-8], [8:0-3-0,0-1-4], [9:0-4-4,0-5-12], [10:0-3-0,0-1-4], [12:0-3-8,0-1-8], [13:0-4-0,Edge], [16:0-4-4,0-5-12], [18:0-5-0,0-6-0], [19:0-2-12,0-3-0], [23:0-4-0,0-3-12], [25:0-4-0,0-3-12], [29:0-2-12,0-3-0], [30:0-7-8,0-6-0]

Loading	(psf)	Spacing	6-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.65	22-23	>999	240	M18AHS	169/162
(Roof Snow = 30.0)		Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.79	22-23	>999	180	MT20	220/195
TCDL	5.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.28	18	n/a	n/a		
BCLL	0.0	Code	IBC2021/TPI2014	Matrix-S								
BCDL	1.0											
Weight: 870 lb FT = 10%												

LUMBER			BRACING		
TOP CHORD	2x12 DF SS		TOP CHORD	2-0-0 oc purlins (3-0-7 max.), except end verticals	
BOT CHORD	2x12 DF SS			(Switched from sheeted: Spacing > 2-0-0).	
WEBS	2x4 DF No.2 *Except* W10,W15,W3,W22,W23,W2:2x4 DF 2100F 1.8E, W1:2x12 DF SS, W24:2x10 DF SS		BOT CHORD	Rigid ceiling directly applied or 6-3-0 oc bracing.	
			WEBS	1 Row at midpt	4-26, 7-26, 8-25, 7-25, 9-25, 10-23, 9-23, 11-23, 14-22, 16-18, 2-30
REACTIONS (lb/size) 18=7468/0-7-4, (min. 0-2-9), 30=7468/0-7-4, (min. 0-2-9)					
Max Horiz 30=-226 (LC 14)					
Max Uplift 18=-2092 (LC 10), 30=-2091 (LC 9)					

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-2245/776, 2-31=-11732/3608, 3-31=-11641/3624, 3-4=-12904/4051, 4-5=-13045/4148, 5-6=-12754/4149, 6-7=-12724/4190, 7-32=-11324/3795, 32-33=-11284/3819, 8-33=-11025/3826, 8-9=-11053/3910, 9-10=-11059/3911, 10-34=-11032/3828, 34-35=-11060/3821, 11-35=-11331/3801, 11-12=-12752/4199, 12-13=-12781/4160, 13-14=-13073/4157, 14-15=-12976/4073, 15-36=-11752/3658, 16-36=-11842/3642, 16-17=-2032/713, 1-30=-1862/603, 17-18=-1719/558
BOT CHORD	29-30=-2571/8301, 28-29=-3349/11124, 27-28=-3663/12373, 26-27=-3663/12373, 25-26=-3339/11709, 24-25=-2578/9648, 23-24=-2578/9648, 22-23=-3316/11728, 21-22=-3646/12431, 20-21=-3646/12431, 19-20=-3336/11222, 18-19=-2539/8368
WEBS	4-28=-1122/307, 3-28=-406/1600, 6-26=-846/326, 4-26=-304/506, 7-26=-472/1019, 8-25=-1089/203, 7-25=-2877/984, 9-25=-1060/3752, 10-23=-1087/201, 9-23=-1064/3768, 11-23=-2897/991, 12-22=-847/324, 11-22=-479/1046, 14-22=-342/479, 14-20=-1079/293, 15-20=-392/1550, 2-29=-1047/3757, 3-29=-2840/836, 15-19=-2787/825, 16-19=-1047/3751, 16-18=-8725/2627, 2-30=-8438/2545

- NOTES**
- 1) Wind: ASCE 7-16; Vult=110mph (3-second gust) Vasd=87mph; TCCL=3.0psf; BCDL=0.6psf; h=15ft; Cat. II; Exp B; Partially Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-5-10 to 6-5-10, Interior (1) 6-5-10 to 35-0-0, Exterior(2R) 35-0-0 to 41-0-0, Interior (1) 41-0-0 to 69-7-6 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) TCCL: ASCE 7-16; Pf=30.0 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.20; IBC 1607.11.2 minimum roof live load applied where required.
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 - 8) All plates are 6x6 (=) MT20 unless otherwise indicated.
 - 9) Bearing at joint(s) 30, 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

Job	Truss	Truss Type	Qty	Ply	Seventh Day Adventist - 70' Truss
R2601144M2	PB02	Common	10	1	Job Reference (optional)

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2091 lb uplift at joint 30 and 2092 lb uplift at joint 18.

LOAD CASE(S) Standard