PRCA20220580

MiTek USA, Inc.
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661
Telephone 916-755-3571

City of Puyallup
Building
ACCEPTED
JMontgomery
10/14/2022
1:26:42 PM

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

Re: 2204595
BERGMAN/CASCADE CHRISTIAN SCHOOL

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Louws Truss.

Pages or sheets covered by this seal: R72669614 thru R72669636

My license renewal date for the state of Washington is January 2, 2023.

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

September 16,2022

Hernandez, Marcos

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

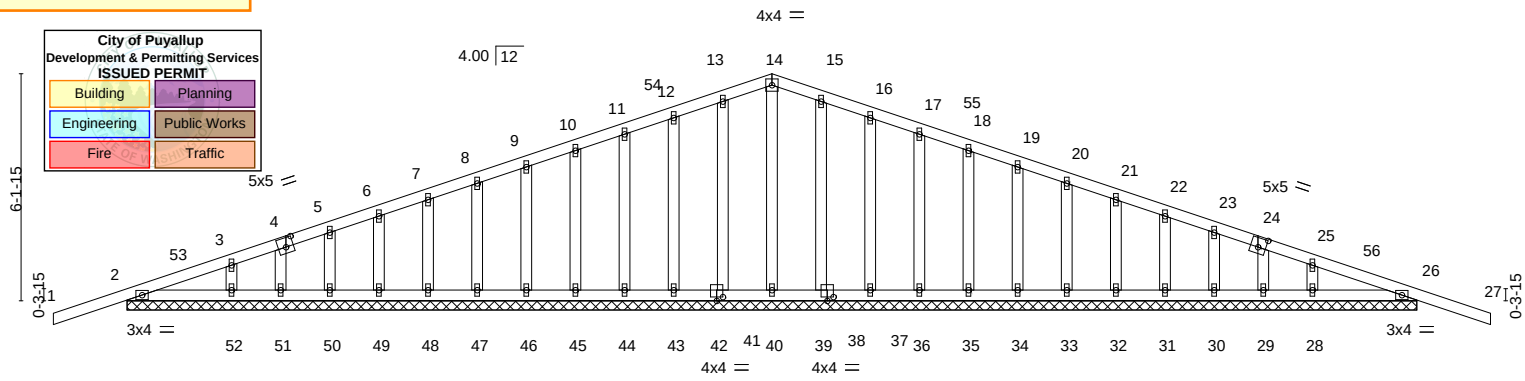
Job	Truss	Truss Type	Qty	Ply	BERGMAN/CASCADE CHRISTIAN SCHOOL
2204595	GE01	Common Supported Gable	1	1	R72669618
					Job Reference (optional)

Louws Truss, Inc, Ferndale, WA - 98248, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 16 18:45:29 2022 Page 1
ID:thwj74mGC5kul8yaJgv6sIyiJx7-RKSa4iBYr_?x9oiAKqA6TzKoawCM1A9ytlQVTPyczRa

-2-0-0 2-0-0 | 17-6-0 17-6-0 | 35-0-0 17-6-0 | 37-0-0 2-0-0

Scale = 1:62.5

PRCA20220580



35-0-0
35-0-0

Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [24:0-2-8,0-3-0], [39:0-2-0,0-1-4], [42:0-2-0,0-1-4]

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	0.24	Vert(LL)	-0.02	27	n/r	120	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.03	27	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	26	n/a	n/a		
BCDL	8.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 199 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
OTHERS 2x4 DF 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, Except:
6-0-0 oc bracing: 2-52,51-52,28-29,26-28.

REACTIONS. All bearings 35-0-0.
(lb) - Max Horz 2=-105(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) 41, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 39, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28 except 2=-119(LC 8), 26=-133(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 40, 41, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 39, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28 except 2=280(LC 1), 26=280(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -2-0-0 to 1-7-3, Exterior(2) 1-7-3 to 17-6-0, Corner(3) 17-6-0 to 21-1-3, Exterior(2) 21-1-3 to 37-0-0 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
3) 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.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 1-4-0 oc.
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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 41, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 39, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28 except (jt=lb) 2=119, 26=133.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 26.

September 16,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

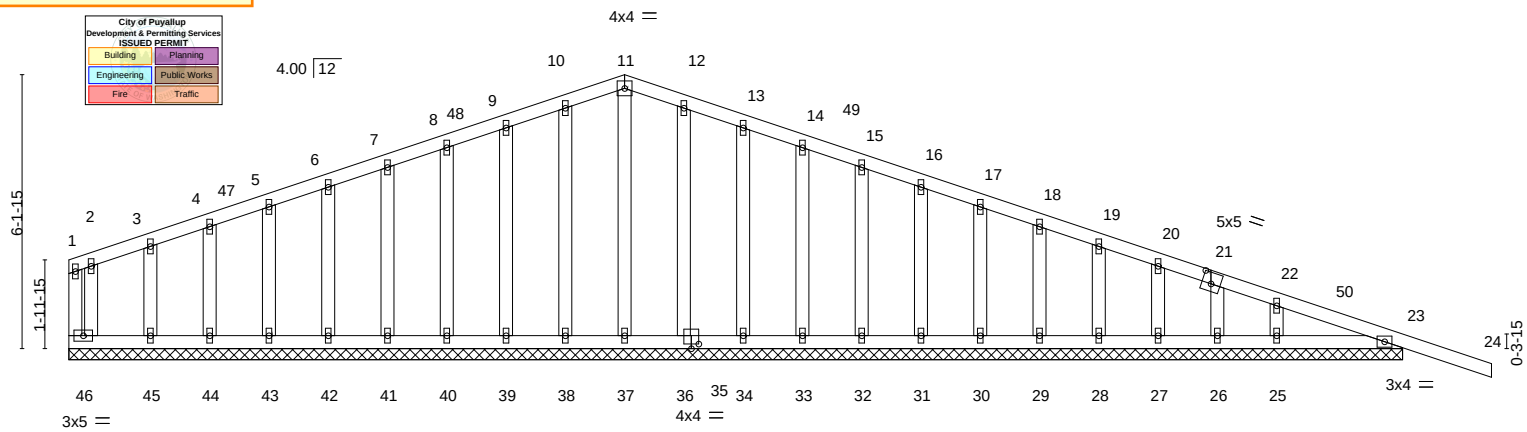
Job	Truss	Truss Type	Qty	Ply	BERGMAN/CASCADE CHRISTIAN SCHOOL
2204595	GE02	Common Supported Gable	1	1	R72669619
					Job Reference (optional)

Louws Truss, Inc, Ferndale, WA - 98248, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 16 18:45:31 2022 Page 1
ID:thwj74mGC5kul8yaJgv6slyiJx7-NjZKVODoNbFfP6sZSFCaYOQ84kurV4kEL3vcXHyczRY

12-6-0 30-0-0 32-0-0
12-6-0 17-6-0 2-0-0

PRCA20220580

Scale = 1:51.8



30-0-0
30-0-0

Plate Offsets (X,Y)-- [21:0-2-8,0-3-0], [35:0-2-0,0-1-4]

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	0.24	Vert(LL)	-0.02	24	n/r	120	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.03	24	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.01	23	n/a	n/a		
BCDL	8.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 181 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2
OTHERS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 25-26,23-25.

REACTIONS. All bearings 30-0-0.
(lb) - Max Horz 46=-120(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) 46, 38, 39, 40, 41, 42, 43, 44, 45, 36, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25 except 23=-122(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 46, 37, 38, 39, 40, 41, 42, 43, 44, 45, 36, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25 except 23=281(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-12 to 3-8-15, Exterior(2) 3-8-15 to 12-6-0, Corner(3) 12-6-0 to 16-1-3, Exterior(2) 16-1-3 to 32-0-0 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
3) 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.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 1-4-0 oc.
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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 46, 38, 39, 40, 41, 42, 43, 44, 45, 36, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25 except (jt=lb) 23=122.

September 16,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	BERGMAN/CASCADE CHRISTIAN SCHOOL
2204595	H01	California Girder	1	1	R72669620
					Job Reference (optional)

Louws Truss, Inc, Ferndale, WA - 98248, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 16 18:45:32 2022 Page 1
ID:thwj74mGC5kul8yaJgv6slyiJx7-rv7iikEQ8vNW0GRl?ykp5byA_85MEXsOZje94kyczRX

-1-6-0	5-4-0	5-10-15	9-6-9	10-1-8	15-5-8	16-9-8
1-6-0	5-4-0	0-6-15	3-7-10	0-6-15	5-4-0	1-4-0

Scale = 1:30.3

PRCA20220580

City of Puyallup
Development & Permitting Services
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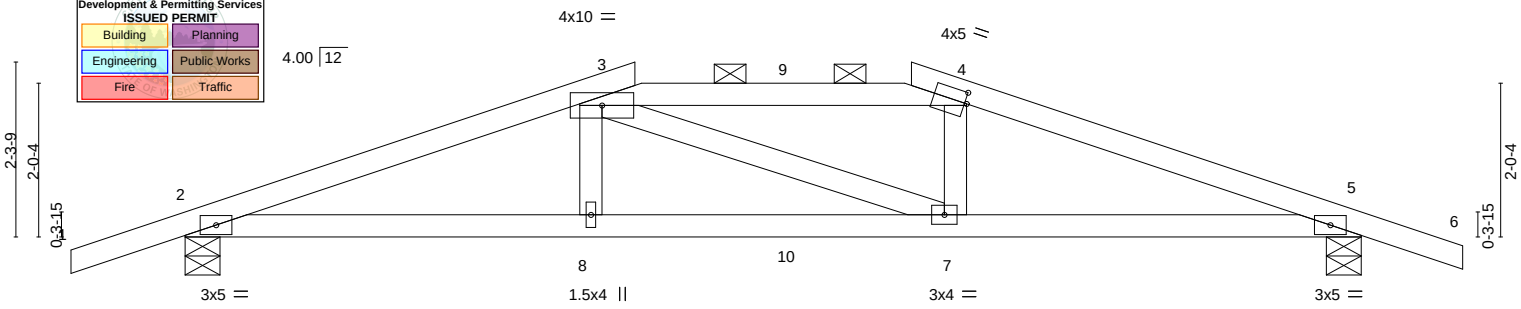

5-4-0	10-1-8	15-5-8
5-4-0	4-9-8	5-4-0

Plate Offsets (X,Y)-- [4:0-0-5,0-1-12]

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	0.81	Vert(LL)	-0.11	7-8	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.17	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.05	5	n/a	n/a		
BCDL	8.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 59 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-10 oc purlins, except
2-0-0 oc purlins (2-11-15 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 8-0-14 oc bracing.

REACTIONS. (size) 2=0-5-8, 5=0-5-8
Max Horz 2=42(LC 12)
Max Uplift 2=-298(LC 4), 5=-335(LC 5)
Max Grav 2=1157(LC 1), 5=1166(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2495/645, 3-4=-2402/681, 4-5=-2579/703
BOT CHORD 2-8=-529/2299, 7-8=-540/2279, 5-7=-608/2382
WEBS 3-8=0/252, 3-7=-73/253

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=298, 5=335.
7) Girder carries hip end with 5-1-11 right side setback, 5-7-1 left side setback, and 5-7-1 end setback.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 315 lb down and 126 lb up at 10-3-13, and 315 lb down and 126 lb up at 5-7-1 on top chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-64, 3-4=-114, 4-6=-64, 2-5=-29(F=-13)
Concentrated Loads (lb)
Vert: 3=-244 4=-244

September 16,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	BERGMAN/CASCADE CHRISTIAN SCHOOL R72669621
2204595	H02	California Girder	1	1	Job Reference (optional)

Louws Truss, Inc, Ferndale, WA - 98248, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 16 18:45:33 2022 Page 1
ID:thwj74mGC5kul8yaJgv6slyiJx7-J5h5w4E3vDVNeQ0xZfF2dpVLeYRrz_2XoNOjcAyczRW

-1-6-0 | 5-4-0 | 5-10-15 | 9-6-9 | 10-1-8 | 15-5-8 | 16-9-8
1-6-0 | 5-4-0 | 0-6-15 | 3-7-10 | 0-6-15 | 5-4-0 | 1-4-0

Scale = 1:30.3

PRCA20220580

City of Puyallup
Development & Permitting Services
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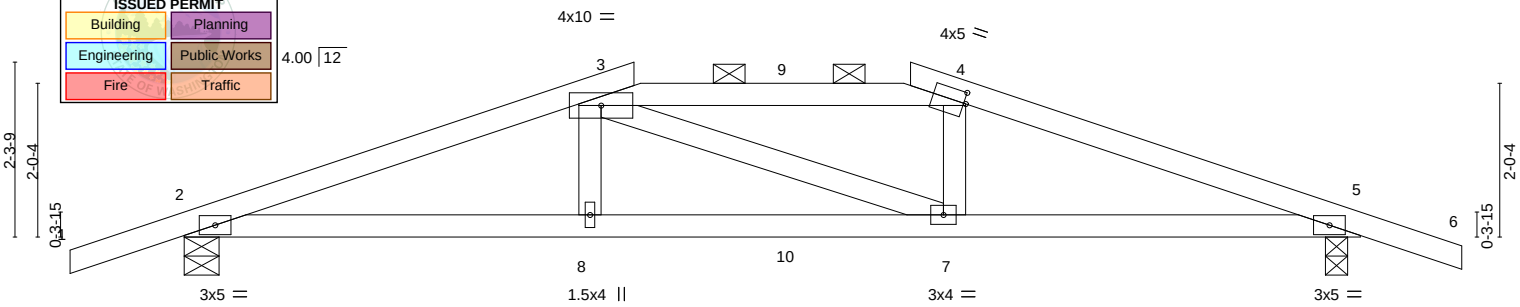

5-4-0 | 10-1-8 | 15-3-8 | 15-5-8
5-4-0 | 4-9-8 | 5-2-0 | 0-2-0

Plate Offsets (X,Y)-- [4:0-0-5,0-1-12]

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	0.81	Vert(LL)	-0.11	7-8	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.17	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.05	5	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 59 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-7 oc purlins, except 2-0-0 oc purlins (2-11-8 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 8-0-2 oc bracing.

REACTIONS. (size) 2=0-5-8, 5=0-3-8
Max Horz 2=42(LC 12)
Max Uplift 2=-299(LC 4), 5=-331(LC 5)
Max Grav 2=1164(LC 1), 5=1162(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2514/650, 3-4=-2441/692, 4-5=-2616/713
BOT CHORD 2-8=-534/2317, 7-8=-545/2297, 5-7=-618/2421
WEBS 3-8=0/252, 3-7=-78/275

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=299, 5=331.
7) Girder carries hip end with 5-1-11 right side setback, 5-7-1 left side setback, and 5-7-1 end setback.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 315 lb down and 126 lb up at 10-3-13, and 315 lb down and 126 lb up at 5-7-1 on top chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-64, 3-4=-114, 4-6=-64, 2-5=-29(F=-13)
Concentrated Loads (lb)
Vert: 3=-244 4=-244

MARCOS ANTONIO HERNANDEZ
STATE OF WASHINGTON
49639
REGISTERED
PROFESSIONAL ENGINEER

September 16,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	BERGMAN/CASCADE CHRISTIAN SCHOOL
2204595	H03	California	1	1	R72669622
					Job Reference (optional)

Louws Truss, Inc, Ferndale, WA - 98248, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 16 18:45:34 2022 Page 1
ID:thwj74mGC5kul8yaJgv6sIyiJx7-nIFT7QFhgWdEGZa87NmHA02bBxqhiRUh117G8cyczRV

-1-6-0	6-6-8	7-2-15	8-4-1	8-11-0	15-3-8
1-6-0	6-6-8	0-8-7	1-1-2	0-6-15	6-4-8

PRCA20220580

Scale = 1:28.5

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
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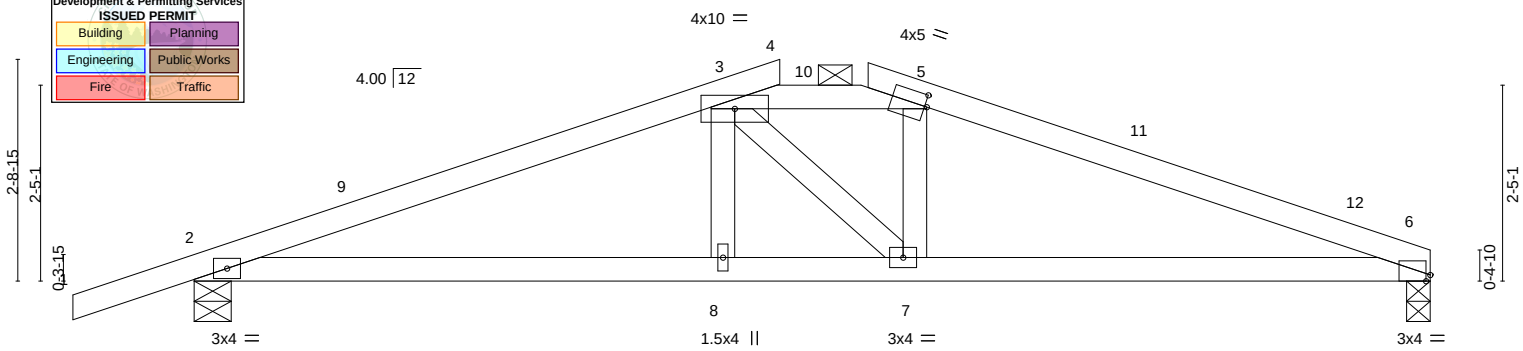

6-6-8	8-11-0	15-3-8
6-6-8	2-4-8	6-4-8

Plate Offsets (X,Y)-- [5:0-0-5,0-1-12], [6:0-0-10,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	0.50	Vert(LL)	-0.06	6-7	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.11	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.02	6	n/a	n/a		
BCDL	8.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 56 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-13 oc purlins, except
2-0-0 oc purlins (5-8-10 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-8, 2=0-5-8
Max Horz 2=57(LC 12)
Max Uplift 6=-131(LC 9), 2=-209(LC 8)
Max Grav 6=593(LC 1), 2=718(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1176/331, 3-5=-1067/386, 5-6=-1186/372
BOT CHORD 2-8=-265/1045, 7-8=-269/1038, 6-7=-298/1056

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-6-0 to 2-1-3, Interior(1) 2-1-3 to 7-2-15, Exterior(2) 6-9-1 to 14-2-6, Interior(1) 14-2-6 to 15-1-12 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
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=131, 2=209.
7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

September 16,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	BERGMAN/CASCADE CHRISTIAN SCHOOL
2204595	J02	Jack-Open	2	1	R72669623
					Job Reference (optional)

Louws Truss, Inc, Ferndale, WA - 98248, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 16 18:45:35 2022 Page 1
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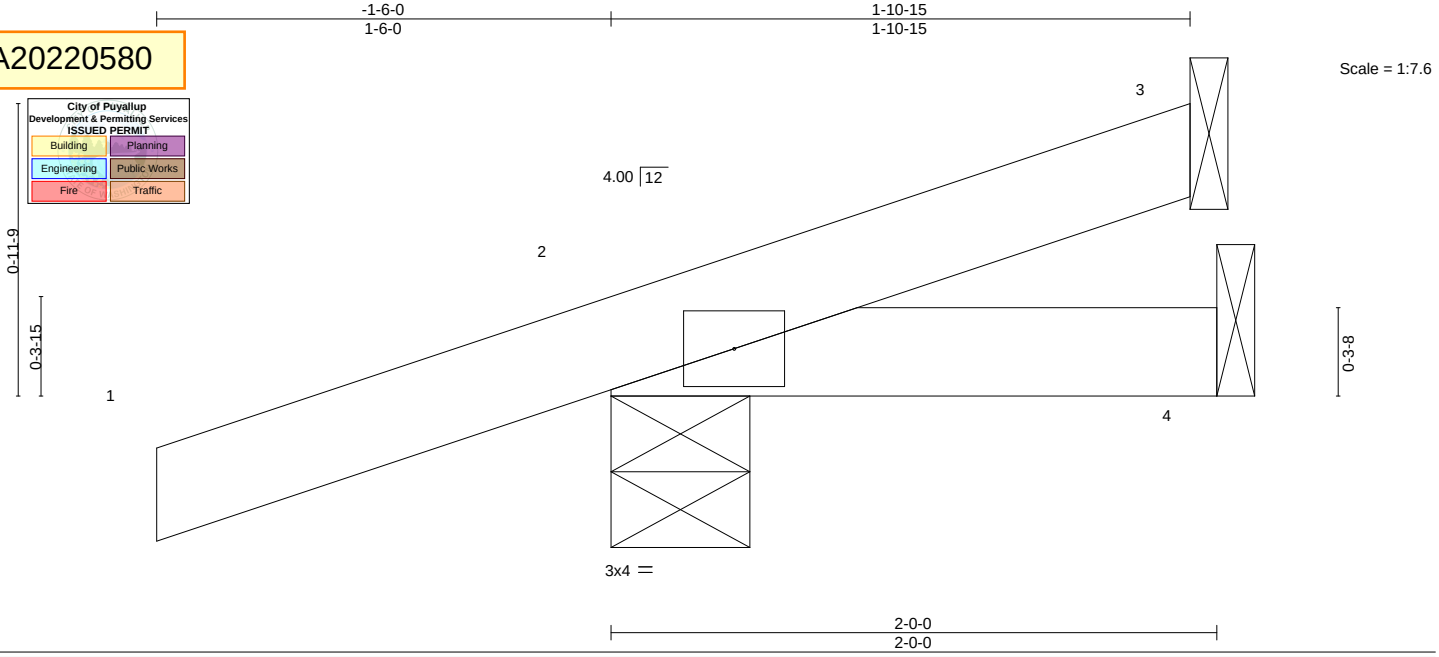

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	-0.00	2	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	2-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	8.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 8 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical
Max Horz 2=48(LC 8)
Max Uplift 3=-14(LC 12), 2=-107(LC 8)
Max Grav 3=18(LC 1), 2=215(LC 1), 4=35(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=110mph Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=107.

September 16,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	BERGMAN/CASCADE CHRISTIAN SCHOOL
2204595	J02A	Jack-Open	2	1	R72669624
					Job Reference (optional)

Louws Truss, Inc, Ferndale, WA - 98248, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 16 18:45:36 2022 Page 1
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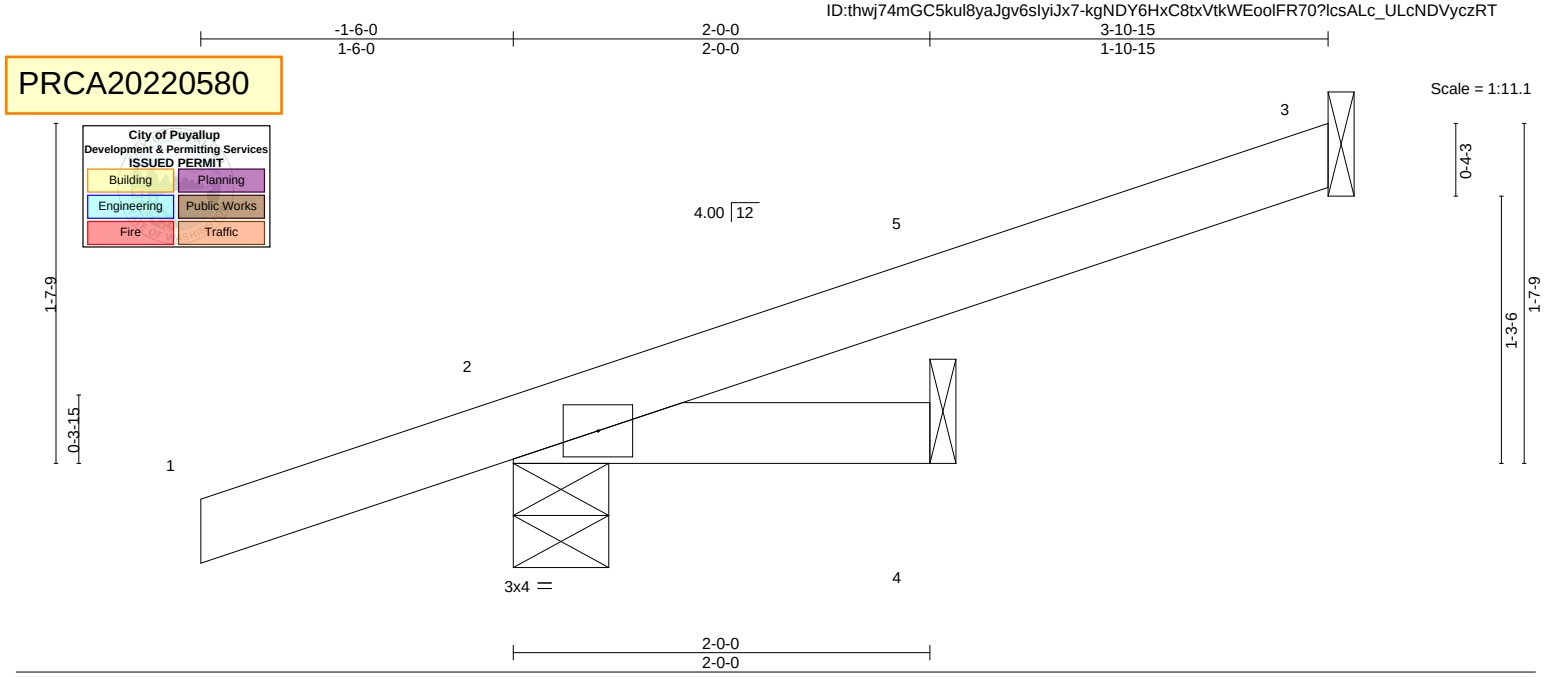

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	-0.00	2	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	2-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	8.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 11 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical
Max Horz 2=72(LC 8)
Max Uplift 3=-55(LC 12), 2=-116(LC 8)
Max Grav 3=102(LC 1), 2=256(LC 1), 4=35(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=110mph Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-6-0 to 2-1-3, Interior(1) 2-1-3 to 3-10-3 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=116.

September 16,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	BERGMAN/CASCADE CHRISTIAN SCHOOL
2204595	J02B	Jack-Open	1	1	R72669625
					Job Reference (optional)

Louws Truss, Inc, Ferndale, WA - 98248, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 16 18:45:36 2022 Page 1
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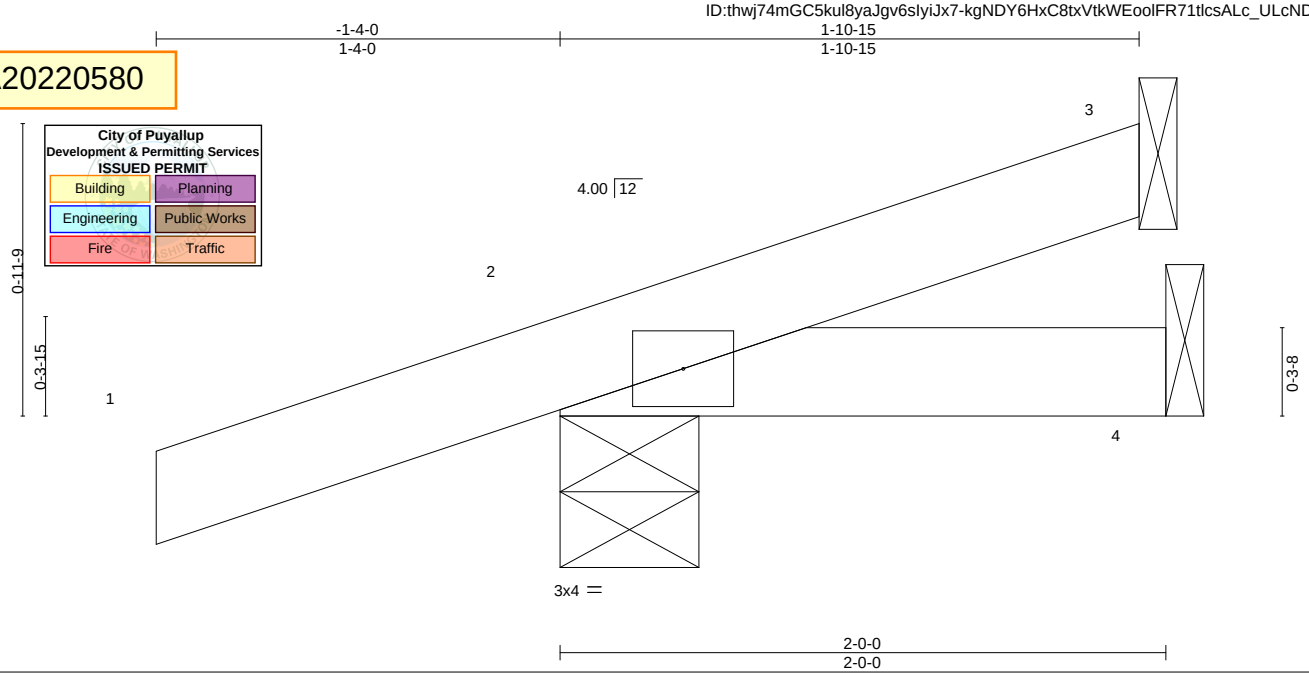

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	-0.00	2	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	2-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	8.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 7 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical
Max Horz 2=45(LC 8)
Max Uplift 3=-18(LC 12), 2=-94(LC 8)
Max Grav 3=26(LC 1), 2=196(LC 1), 4=35(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=110mph Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.

September 16,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	BERGMAN/CASCADE CHRISTIAN SCHOOL
2204595	J02C	Jack-Open	1	1	R72669626
					Job Reference (optional)

Louws Truss, Inc, Ferndale, WA - 98248, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 16 18:45:37 2022 Page 1
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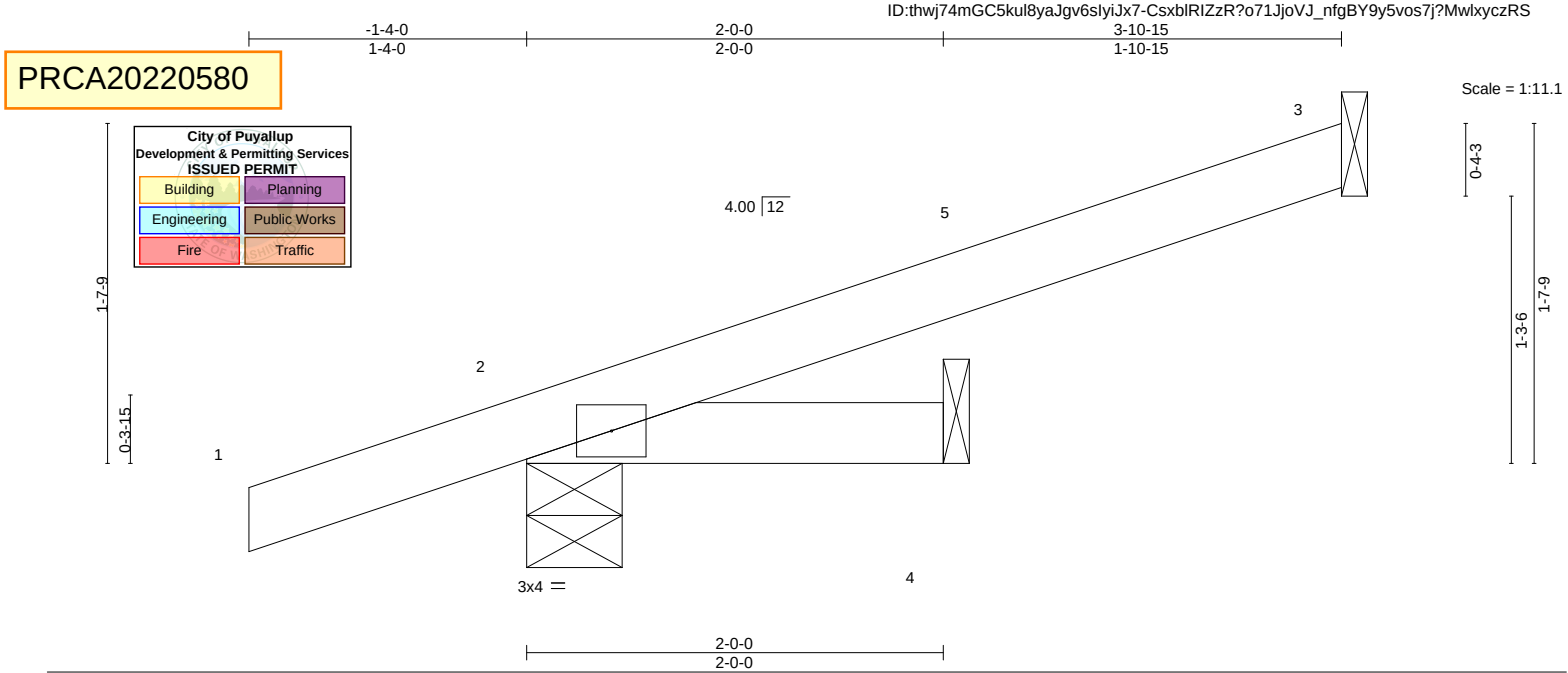

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.00	2	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	2-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	8.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 10 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical
Max Horz 2=70(LC 8)
Max Uplift 3=-57(LC 12), 2=-106(LC 8)
Max Grav 3=106(LC 1), 2=242(LC 1), 4=35(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=110mph Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-4-0 to 2-3-3, Interior(1) 2-3-3 to 3-10-3 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=106.

September 16,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	BERGMAN/CASCADE CHRISTIAN SCHOOL
2204595	J02D	Jack-Open	1	1	R72669627
					Job Reference (optional)

Louws Truss, Inc, Ferndale, WA - 98248, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 16 18:45:38 2022 Page 1
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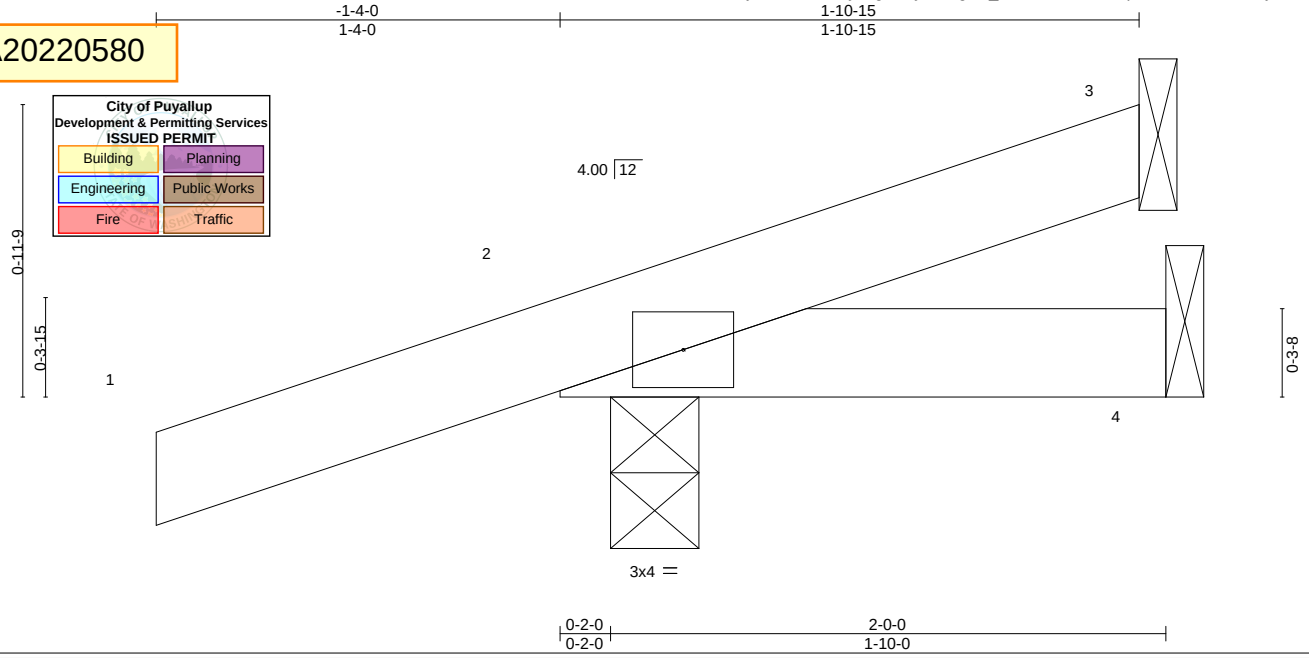

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	-0.00	2	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	2-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	8.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 7 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 2=0-3-8
Max Horz 2=45(LC 8)
Max Uplift 3=-18(LC 12), 2=-92(LC 8)
Max Grav 3=28(LC 1), 4=35(LC 3), 2=194(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=110mph Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.

September 16,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	BERGMAN/CASCADE CHRISTIAN SCHOOL
2204595	J02E	Jack-Open	1	1	R72669628
					Job Reference (optional)

Louws Truss, Inc, Ferndale, WA - 98248, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 16 18:45:39 2022 Page 1
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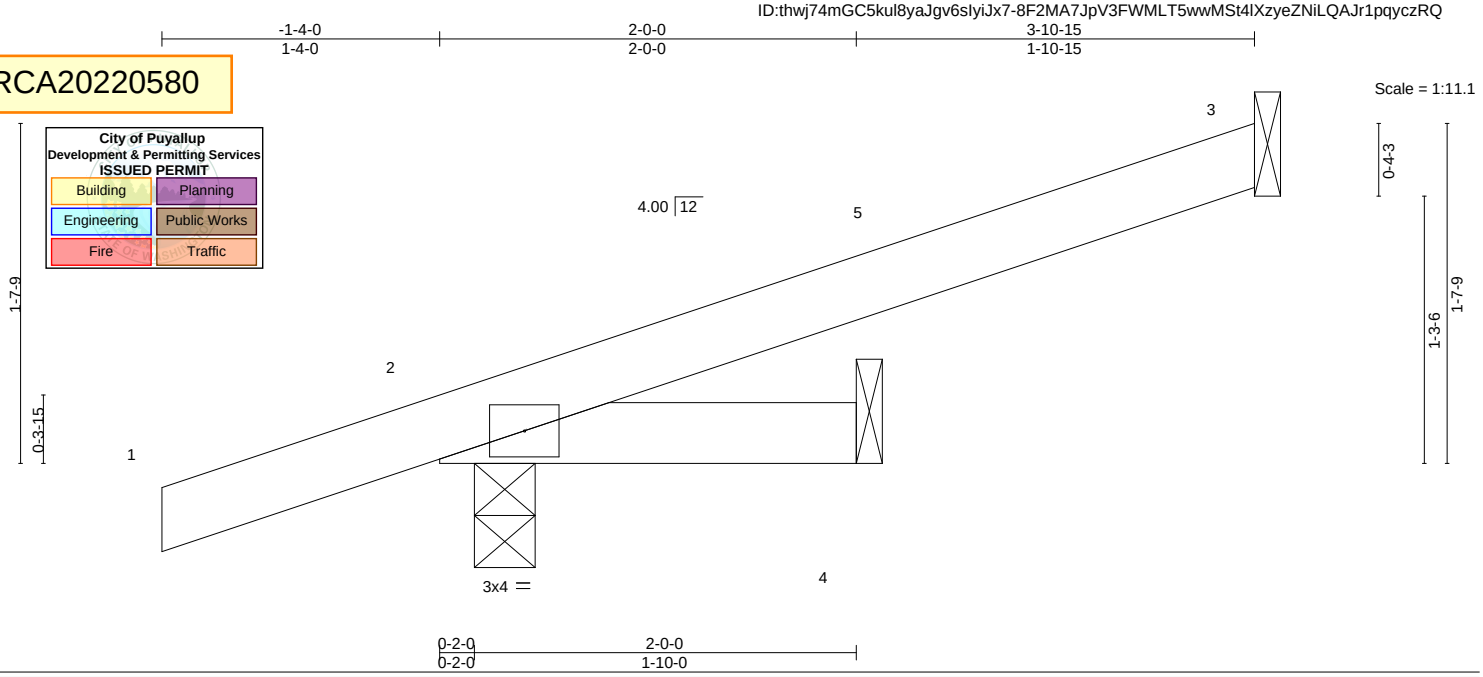

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.00	2	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	2-4	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	8.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 10 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2

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

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 2=0-3-8
Max Horz 2=70(LC 8)
Max Uplift 3=-57(LC 12), 2=-105(LC 8)
Max Grav 3=107(LC 1), 4=35(LC 3), 2=241(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=110mph Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-4-0 to 2-3-3, Interior(1) 2-3-3 to 3-10-3 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=105.

September 16,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	BERGMAN/CASCADE CHRISTIAN SCHOOL
2204595	J06	Jack-Open	4	1	R72669629
					Job Reference (optional)

Louws Truss, Inc, Ferndale, WA - 98248, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 16 18:45:39 2022 Page 1
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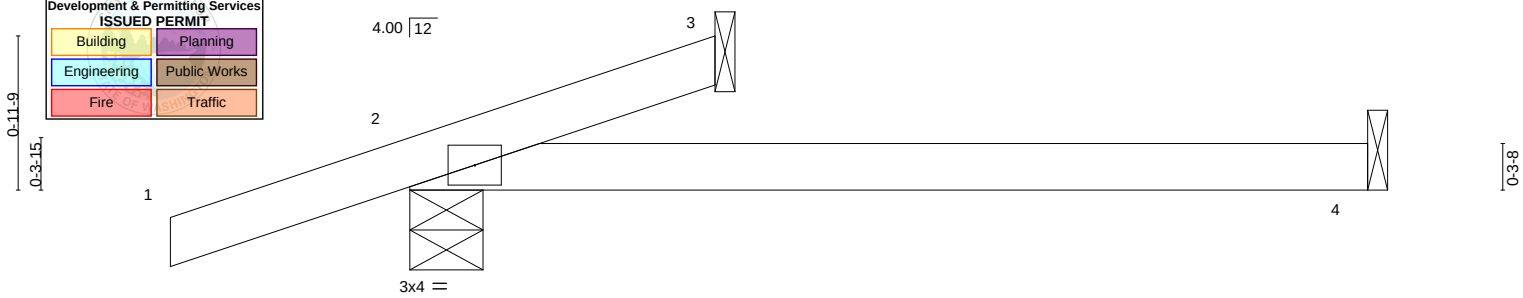

6-0-0 6-0-0

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	0.14	Vert(LL)	-0.06	2-4	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.11	2-4	>621	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	8.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 13 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical
Max Horz 2=48(LC 8)
Max Uplift 3=-14(LC 12), 2=-88(LC 8)
Max Grav 3=18(LC 1), 2=247(LC 1), 4=106(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=110mph Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.

September 16,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	BERGMAN/CASCADE CHRISTIAN SCHOOL R72669630
2204595	J06A	Jack-Open	4	1	Job Reference (optional)

Louws Truss, Inc, Ferndale, WA - 98248, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 16 18:45:40 2022 Page 1
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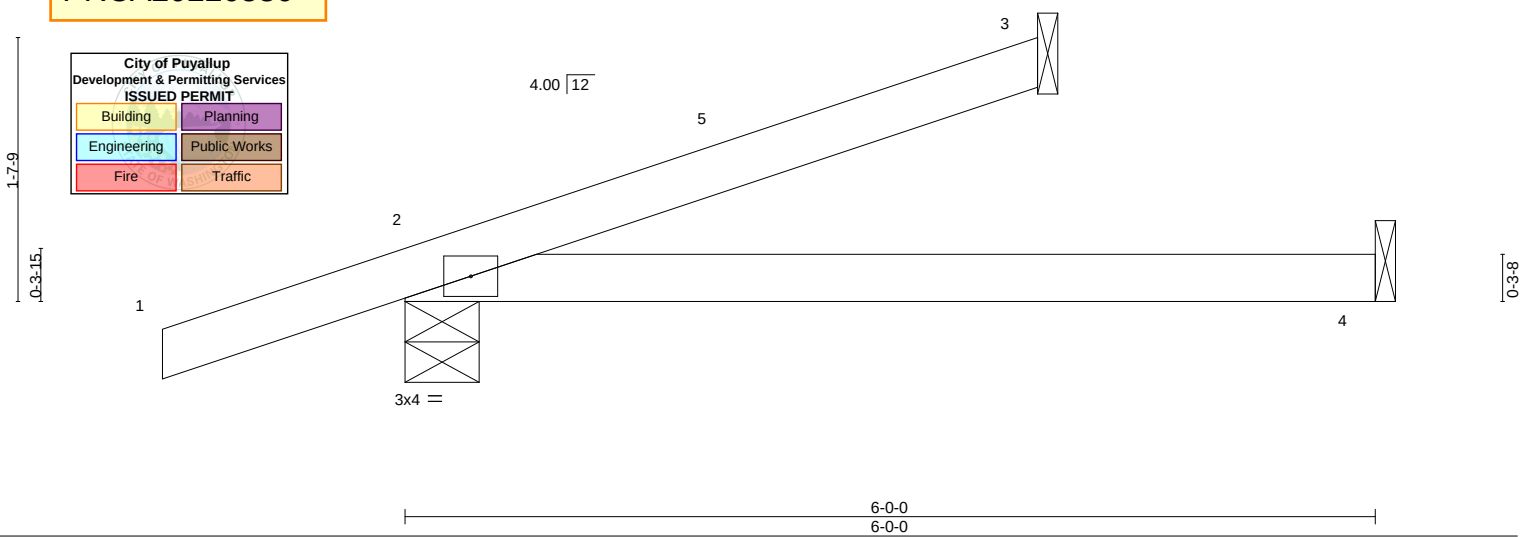
Scale = 1:14.2

PRCA20220580

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



6-0-0 / 6-0-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
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TCDL	7.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.10	2-4	>683	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	8.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 16 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical
Max Horz 2=72(LC 8)
Max Uplift 3=-51(LC 12), 2=-106(LC 8)
Max Grav 3=89(LC 1), 2=299(LC 1), 4=103(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=110mph Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-6-0 to 2-1-3, Interior(1) 2-1-3 to 3-10-3 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=106.

September 16,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	BERGMAN/CASCADE CHRISTIAN SCHOOL
2204595	J06B	Jack-Open	4	1	R72669631
					Job Reference (optional)

Louws Truss, Inc, Ferndale, WA - 98248, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 16 18:45:41 2022 Page 1
ID:thwj74mGC5kul8yaJgv6slyiJx7-4eA6bpL40gVEbedU1LOwyVqoHmFkrcrjedK8uiyczRO

-1-6-0 5-10-15
1-6-0 5-10-15

PRCA20220580

City of Puyallup
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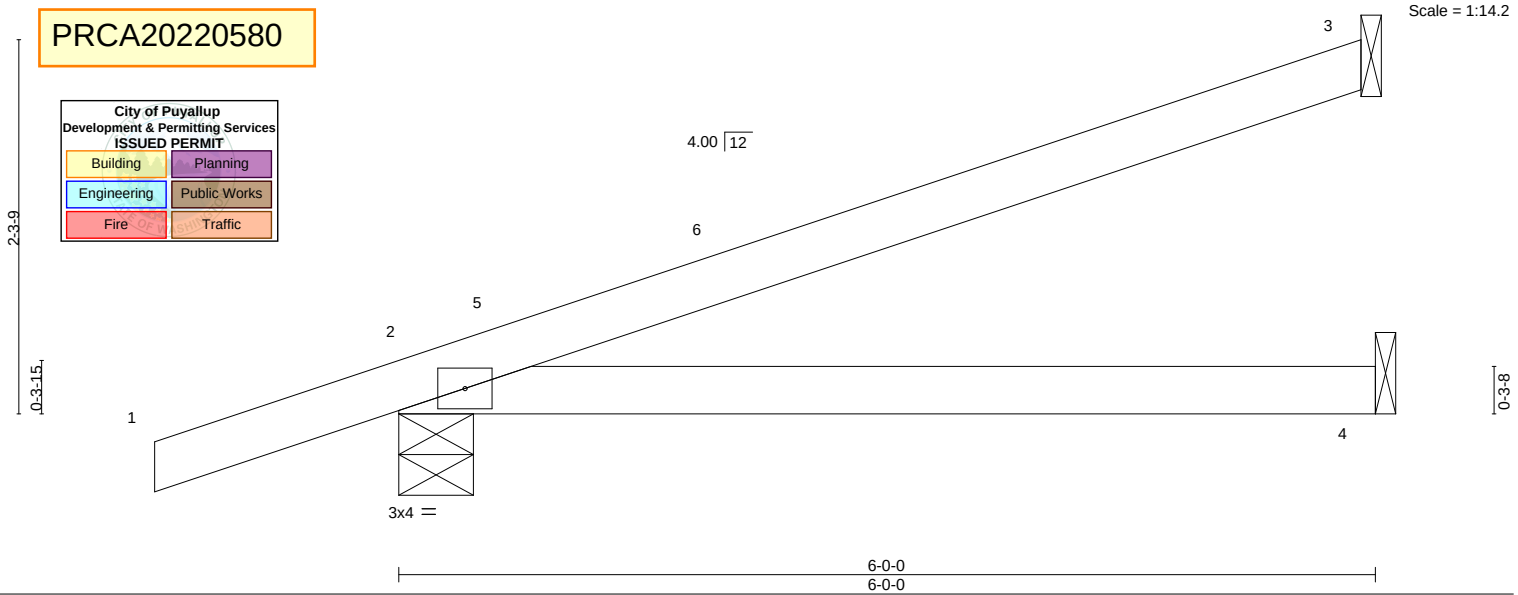
Scale = 1:14.2



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	0.45	Vert(LL)	-0.06	2-4	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.10	2-4	>683	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	8.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 19 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical
Max Horz 2=97(LC 8)
Max Uplift 3=-87(LC 12), 2=-124(LC 8)
Max Grav 3=163(LC 1), 2=353(LC 1), 4=103(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; Vult=110mph Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-6-0 to 2-1-3, Interior(1) 2-1-3 to 5-10-3 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=124.

September 16,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	BERGMAN/CASCADE CHRISTIAN SCHOOL
2204595	J06C	Jack-Open	1	1	R72669632
					Job Reference (optional)

Louws Truss, Inc, Ferndale, WA - 98248, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 16 18:45:42 2022 Page 1
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-1-6-0 / 1-6-0 | 6-0-0 / 6-0-0 | 7-6-15 / 1-6-15

Scale = 1:17.6

PRCA20220580

City of Puyallup
Development & Permitting Services
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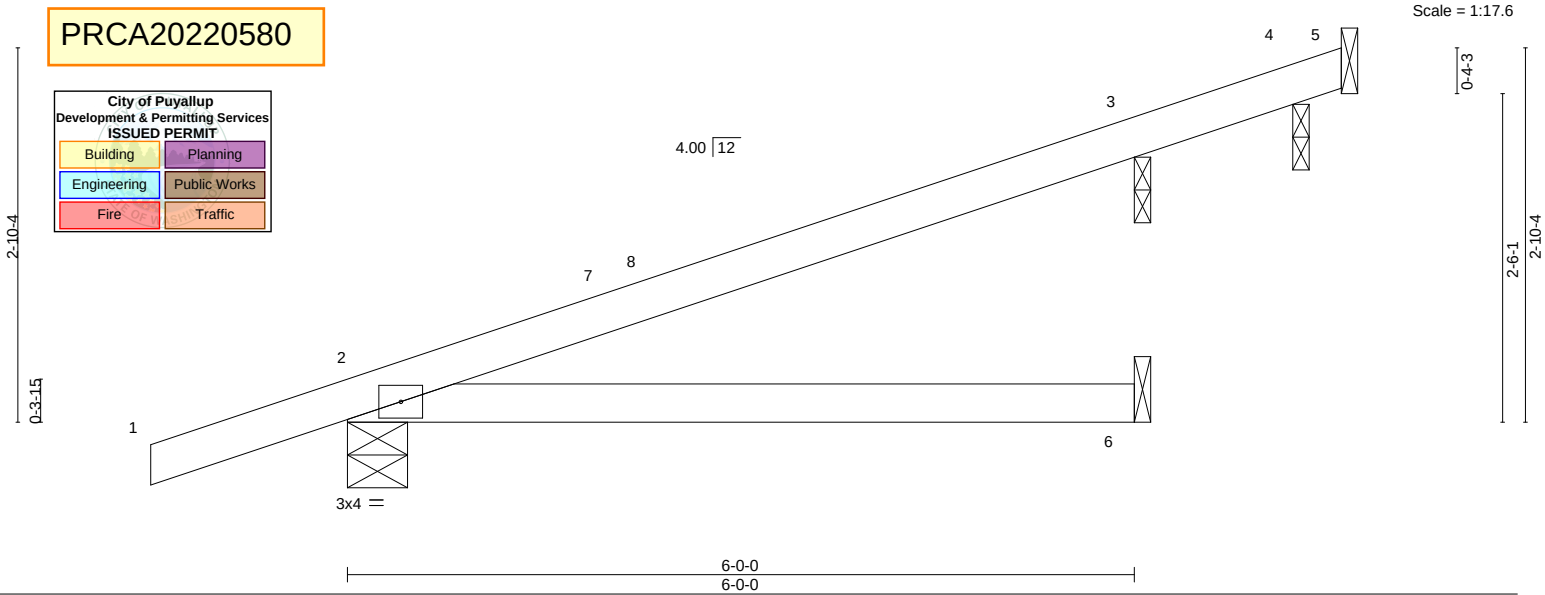

6-0-0 / 6-0-0

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	0.50	Vert(LL)	-0.06	2-6	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.10	2-6	>683	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	8.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 21 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF 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. All bearings Mechanical except (jt=length) 2=0-5-8, 3=0-1-8, 4=0-1-8.
(lb) - Max Horz 2=118(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 5, 4 except 2=-120(LC 8), 3=-111(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 5, 6, 3, 4 except 2=359(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=110mph Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-6-0 to 2-1-3, Interior(1) 2-1-3 to 7-6-3 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3, 4.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4 except (jt=lb) 2=120, 3=111.
7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3, 4.

September 16,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	BERGMAN/CASCADE CHRISTIAN SCHOOL
2204595	J06D	Jack-Open	1	1	R72669633
					Job Reference (optional)

Louws Truss, Inc, Ferndale, WA - 98248, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 16 18:45:43 2022 Page 1
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-1-6-0 1-6-0 | 6-0-0 6-0-0 | 7-6-15 1-6-15

Scale = 1:17.6

PRCA20220580

City of Puyallup
Development & Permitting Services
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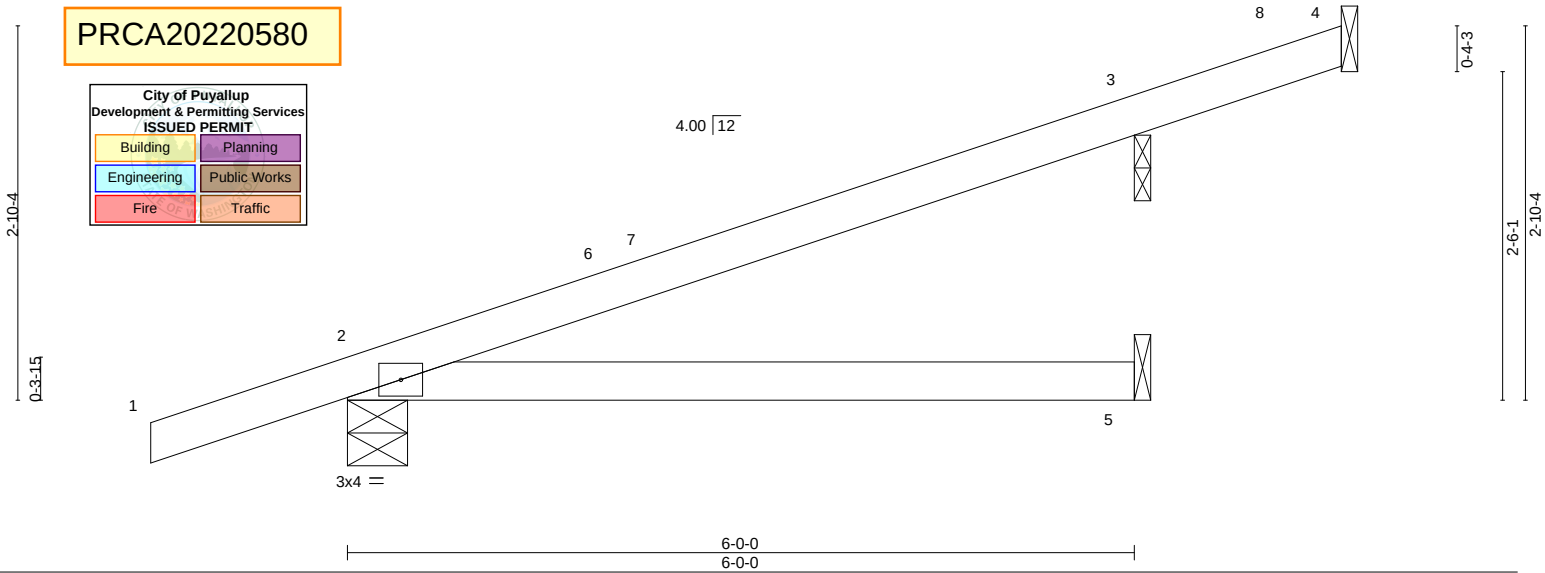


6-0-0
6-0-0

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	0.50	Vert(LL)	-0.06	2-5	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.10	2-5	>683	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	8.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 21 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF 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. All bearings Mechanical except (jt=length) 2=0-5-8, 3=0-1-8.
(lb) - Max Horz 2=118(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 4 except 2=-120(LC 8), 3=-115(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 4, 5, 3 except 2=359(LC 1)

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

NOTES-
1) Wind: ASCE 7-10; Vult=110mph Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-6-0 to 2-1-3, Interior(1) 2-1-3 to 7-6-3 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=120, 3=115.
7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3.

September 16,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

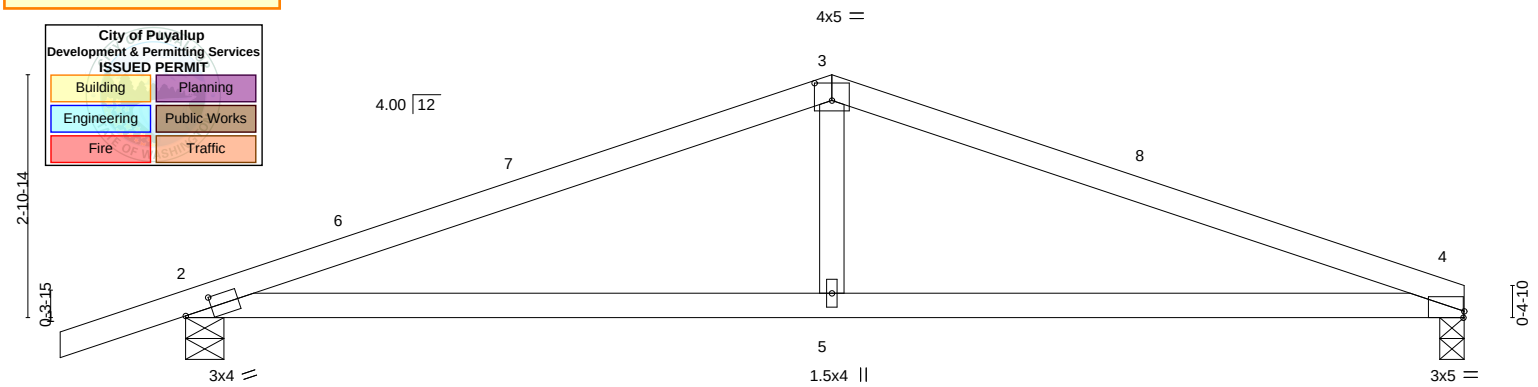
Job	Truss	Truss Type	Qty	Ply	BERGMAN/CASCADE CHRISTIAN SCHOOL
2204595	T01	Common	2	1	R72669634
					Job Reference (optional)

Louws Truss, Inc, Ferndale, WA - 98248, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 16 18:45:43 2022 Page 1
ID:thwj74mGC5kul8yaJgv6slyiJx7-00Is0VMKYHmyryns9mQO1wv4xat2JWT05xpEybyczRM

-1-6-0 7-8-12 15-3-8
1-6-0 7-8-12 7-6-12

Scale = 1:27.6

PRCA20220580



7-8-12 15-3-8
7-8-12 7-6-12

Plate Offsets (X,Y)-- [2:0-3-14,0-1-8], [3:0-2-8,0-2-8], [4:0-0-2,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	0.76	Vert(LL)	-0.11	4-5	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.18	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.02	4	n/a	n/a		
BCDL	8.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 48 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

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

REACTIONS. (size) 4=0-3-8, 2=0-5-8
Max Horz 2=57(LC 16)
Max Uplift 4=-118(LC 9), 2=-196(LC 8)
Max Grav 4=590(LC 1), 2=714(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1109/239, 3-4=-1108/248
BOT CHORD 2-5=-171/972, 4-5=-171/972
WEBS 3-5=0/317

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-6-0 to 2-1-3, Interior(1) 2-1-3 to 7-8-12, Exterior(2) 7-8-12 to 11-3-15, Interior(1) 11-3-15 to 15-1-12 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
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=118, 2=196.

September 16,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

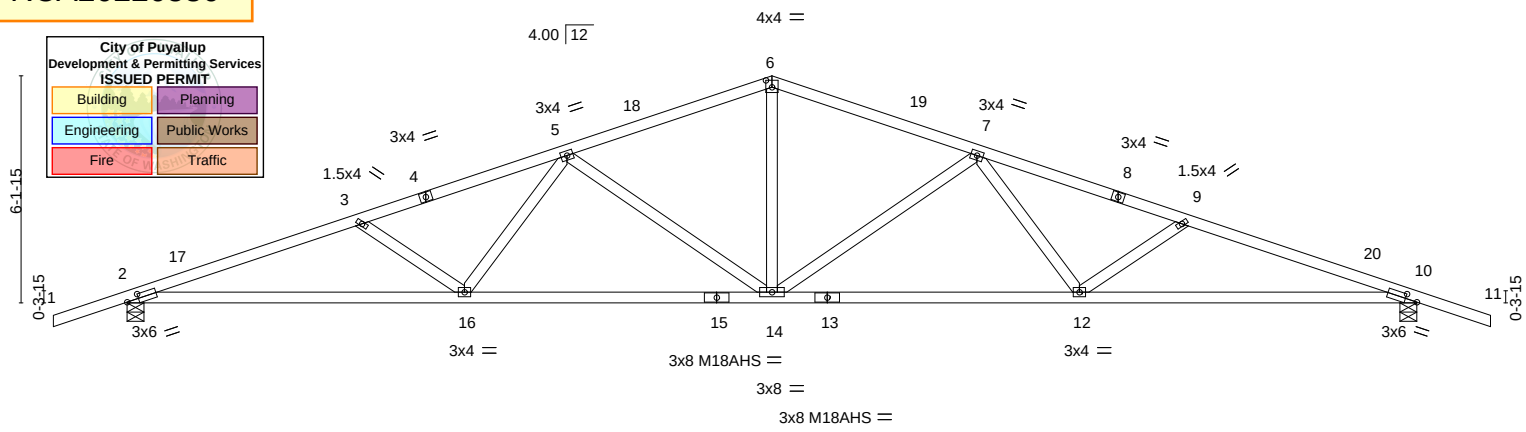
Job	Truss	Truss Type	Qty	Ply	BERGMAN/CASCADE CHRISTIAN SCHOOL
2204595	T02	Common	12	1	R72669635
					Job Reference (optional)

Louws Truss, Inc, Ferndale, WA - 98248, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 16 18:45:45 2022 Page 1
ID:thwj74mGC5kul8yaJgv6slyiJx7-zPPdRBOa4v0g4GwFGBTs6L?RGNVsnIsIZFIL1UyczRK

-2-0-0	6-4-8	11-11-4	17-6-0	23-0-12	28-7-8	35-0-0	37-0-0
2-0-0	6-4-8	5-6-12	5-6-12	5-6-12	5-6-12	6-4-8	2-0-0

PRCA20220580

Scale = 1:62.5



9-1-14	17-6-0	25-10-2	35-0-0
9-1-14	8-4-2	8-4-2	9-1-14

Plate Offsets (X,Y)-- [2:0-3-14,0-1-8], [6:0-2-0,0-2-4], [10:0-3-14,0-1-8]

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	0.58	Vert(LL)	-0.28	14	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.48	14-16	>864	180	M18AHS	169/162
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.15	10	n/a	n/a		
BCDL	8.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 151 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-9-13 oc bracing.

REACTIONS. (size) 2=0-5-8, 10=0-5-8
Max Horz 2=-105(LC 13)
Max Uplift 2=-371(LC 8), 10=-371(LC 9)
Max Grav 2=1524(LC 1), 10=1524(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3471/670, 3-5=-3127/574, 5-6=-2210/425, 6-7=-2210/425, 7-9=-3127/574, 9-10=-3471/671
BOT CHORD 2-16=-638/3217, 14-16=-466/2662, 12-14=-377/2662, 10-12=-550/3217
WEBS 6-14=-147/1033, 7-14=-787/265, 7-12=-39/461, 9-12=-387/203, 5-14=-787/265, 5-16=-38/461, 3-16=-387/202

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -2-0-0 to 1-7-3, Interior(1) 1-7-3 to 17-6-0, Exterior(2) 17-6-0 to 21-1-3, Interior(1) 21-1-3 to 37-0-0 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
3) All plates are MT20 plates unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=371, 10=371.

September 16,2022

MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

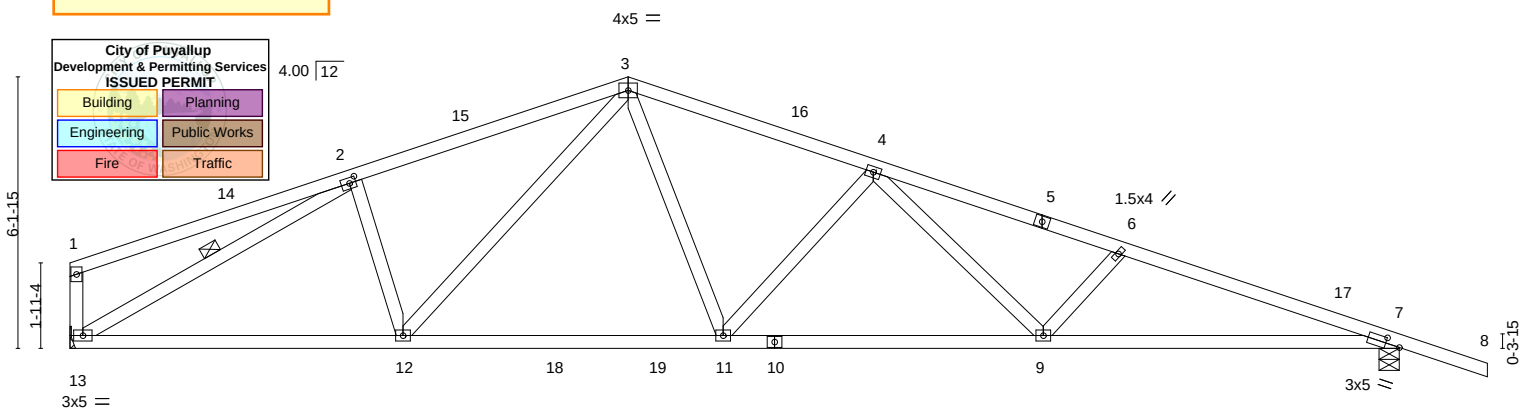
Job	Truss	Truss Type	Qty	Ply	BERGMAN/CASCADE CHRISTIAN SCHOOL
2204595	T03	Common	6	1	R72669636
					Job Reference (optional)

Louws Truss, Inc, Ferndale, WA - 98248, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Sep 16 18:45:46 2022 Page 1
ID:thwj74mGC5kul8yaJgv6slyiJx7-Rbz?eWPCrC8XiQVRqu_5fYXeZntAWncSnv1vZwyczRJ

6-5-12	12-8-0	18-2-12	23-9-8	30-2-0	32-2-0
6-5-12	6-2-4	5-6-12	5-6-12	6-4-8	2-0-0

Scale = 1:52.3

PRCA20220580



7-6-11	14-9-14	22-1-1	30-2-0
7-6-11	7-3-3	7-3-3	8-0-15

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

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	0.48	Vert(LL)	-0.17	9-11	>999	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.28	9-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.08	7	n/a	n/a		
BCDL	8.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 139 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 DF No.2
BOT CHORD 2x4 DF No.2
WEBS 2x4 DF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-1-14 oc bracing.
WEBS 1 Row at midpt 2-13

REACTIONS. (size) 13=Mechanical, 7=0-5-8
Max Horz 13=-120(LC 13)
Max Uplift 13=-223(LC 8), 7=-346(LC 9)
Max Grav 13=1186(LC 1), 7=1340(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1768/379, 3-4=-1855/394, 4-6=-2678/534, 6-7=-2929/583
BOT CHORD 12-13=-268/1620, 11-12=-162/1477, 9-11=-304/2122, 7-9=-467/2705
WEBS 3-12=-109/346, 3-11=-132/662, 4-11=-664/248, 4-9=-87/534, 6-9=-340/181, 2-13=-1783/315

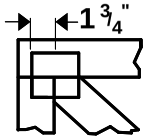
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=110mph Vasd=87mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 3-8-15, Interior(1) 3-8-15 to 12-8-0, Exterior(2) 12-8-0 to 16-3-3, Interior(1) 16-3-3 to 32-2-0 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
3) All plates are 3x4 MT20 unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 8.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=223, 7=346.

September 16,2022

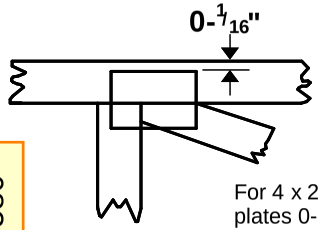
MiTek USA, Inc.
400 Sunrise Avenue, Suite 270
Roseville, CA 95661

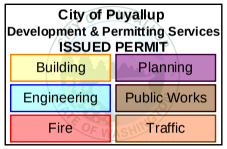
Symbols

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.

PRCA20220580

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

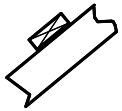
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

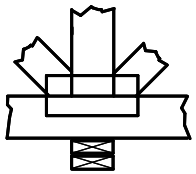
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

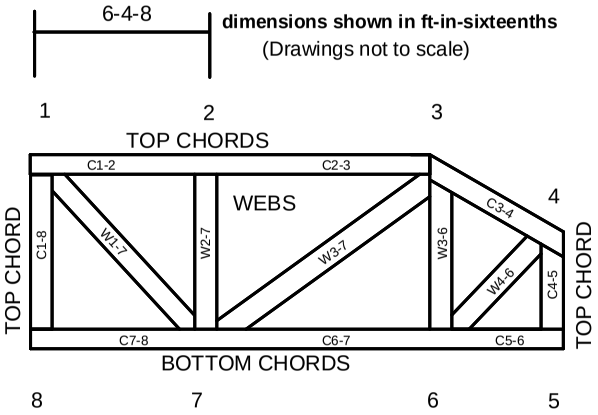


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

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 BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I 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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 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/TPI 1 Quality Criteria.

21.The design does not take into account any dynamic or other loads other than those expressly stated.