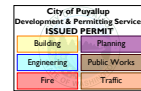




B-21-0070  
CITY OF PUYALLUP



Re: 2003855  
STROBL ADD

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

**MiTek USA, Inc.**

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

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: R66192205 thru R66192214

My license renewal date for the state of Washington is May 25, 2021.



April 22, 2021

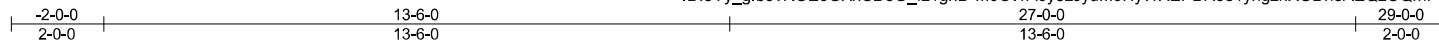
Dyer, Cecil

**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	STROBL ADD	R66192205
2003855	GE01	Attic Supported Gable	1	1	Job Reference (optional)	

Lowus Truss, Inc., Ferndale, WA - 98248,

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 17:19:26 2021 Page 1  
ID:3Yy\_glb5vROE6GXCD3G\_fz1gnD-M0CWA6yezJyuM5HyWXEPBR0e1yhgznXODn3AEQzOQmF



Scale = 1:49.7

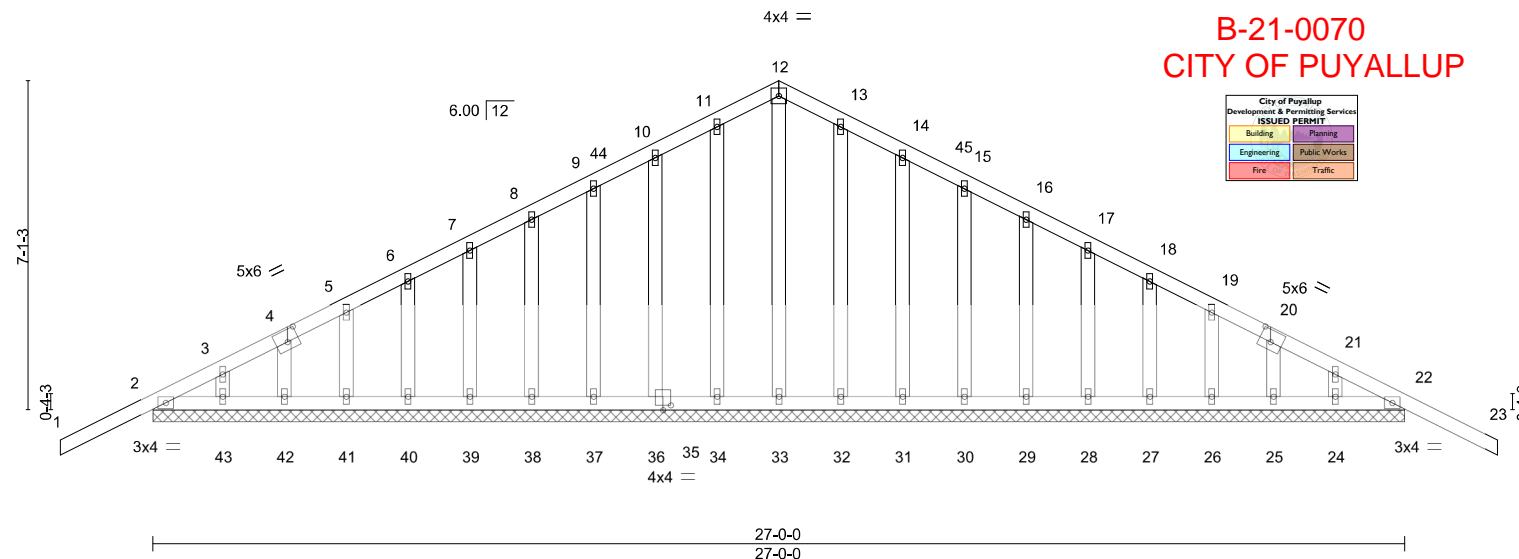


Plate Offsets (X,Y)-- [4:0-3-0,0-3-0], [20:0-3-0,0-3-0], [35:0-2-0,0-1-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.25	Vert(LL) -0.02	23	n/r	120		MT20	220/195
TCDL 7.0	Lumber DOL 1.15	BC 0.12	Vert(CT) -0.03	23	n/r	90			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) 0.00	22	n/a	n/a			
BCDL 8.0	Code IRC2015/TPI2014	Matrix-SH						Weight: 172 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.

#### REACTIONS.

- All bearings 27-0-0.  
(lb) - Max Horz 2=-125(LC 17)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 34, 36, 37, 38, 39, 40, 41, 42, 43, 32, 31, 30, 29, 28, 27, 26, 25, 24, 22  
Max Grav All reactions 250 lb or less at joint(s) 33, 34, 36, 37, 38, 39, 40, 41, 42, 43, 32, 31, 30, 29, 28, 27, 26, 25, 24 except 2=286(LC 1), 22=286(LC 1)

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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 1-6-0, Exterior(2) 1-6-0 to 13-6-0, Corner(3) 13-6-0 to 17-1-3, Exterior(2) 17-1-3 to 29-0-0 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
- 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.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- 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 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 34, 36, 37, 38, 39, 40, 41, 42, 43, 32, 31, 30, 29, 28, 27, 26, 25, 24, 22.
- Attic room checked for L/360 deflection.



April 22, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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

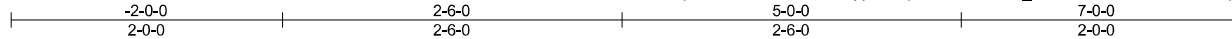
Job	Truss	Truss Type	Qty	Ply	STROBL ADD
2003855	GE02	Common Supported Gable	3	1	

R66192206

Louws Truss, Inc., Ferndale, WA - 98248,

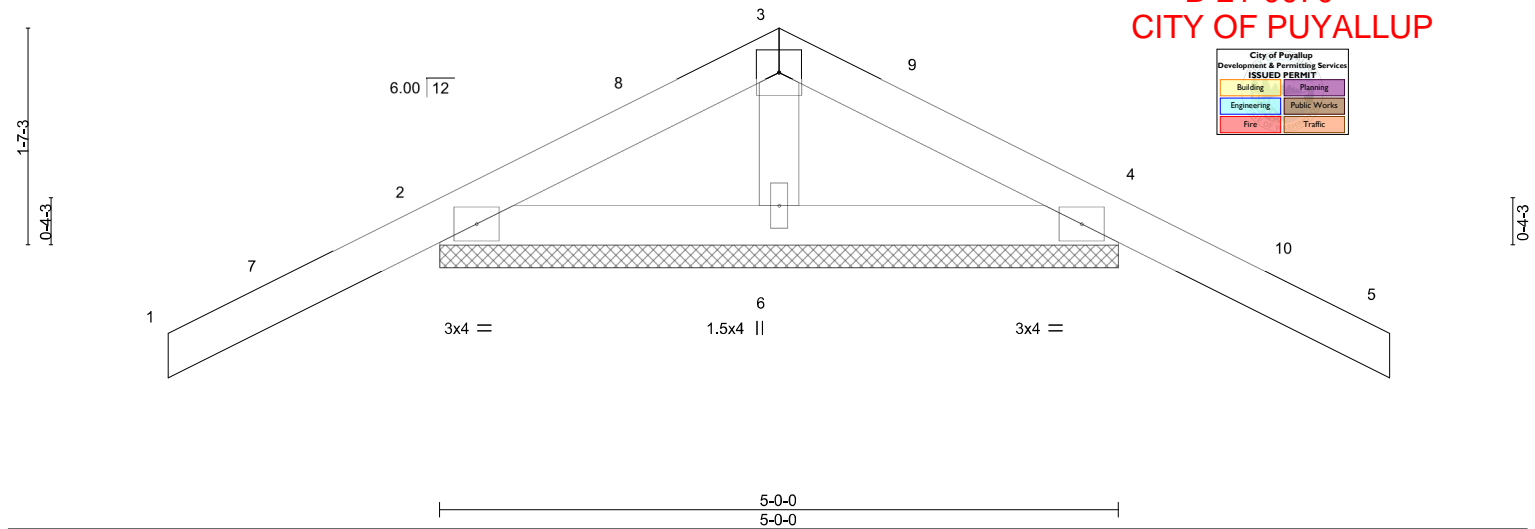
8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 17:19:27 2021 Page 1

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4x4 =

Scale = 1:17.0



**B-21-0070**  
**CITY OF PUYALLUP**



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.36	Vert(LL)	-0.03	5	n/r	120	MT20	220/195
TCDL 7.0	Lumber DOL 1.15	BC 0.05	Vert(CT)	-0.05	5	n/r	90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL 8.0	Code IRC2015/TPI2014	Matrix-P							

Weight: 22 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 5-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.**

(size) 2=5-0-0, 4=5-0-0, 6=5-0-0  
 Max Horz 2=-36(LC 13)  
 Max Uplift 2=-100(LC 12), 4=-107(LC 13)  
 Max Grav 2=273(LC 23), 4=273(LC 24), 6=126(LC 3)

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- 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 2-6-0, Corner(3) 2-6-0 to 6-1-3, Exterior(2) 6-1-3 to 7-0-0 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
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- 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 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 4=107.



April 22, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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

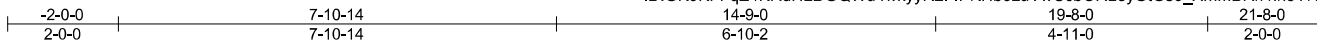
Job	Truss	Truss Type	Qty	Ply	STROBL ADD
2003855	GE03	Common Structural Gable	2	1	R66192207

Louws Truss, Inc., Ferndale, WA - 98248,

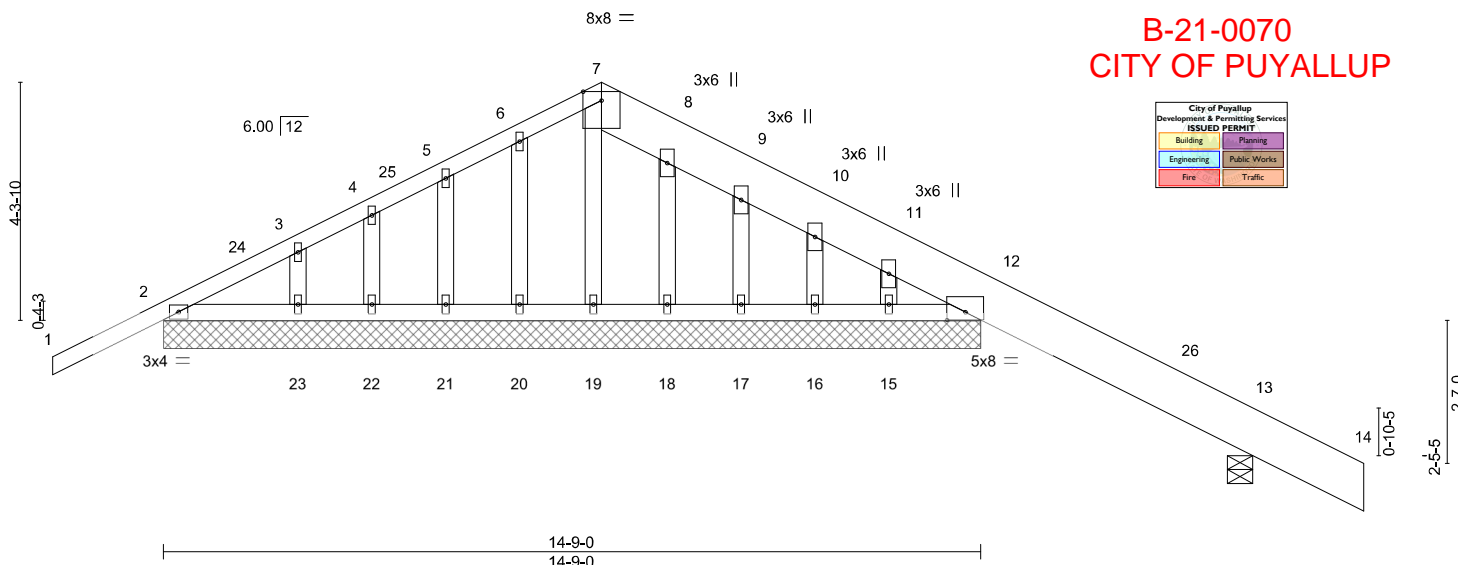
8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 17:19:28 2021 Page 1

ID:GK9KFFqZ4KRdHLDGQWu4wkyyR2I-IPKHbozuVwCobORLeyGtGs6\_XmMBRi7hh5YHIJzOQmD

Job Reference (optional)



Scale = 1:41.6



**B-21-0070**  
**CITY OF PUYALLUP**

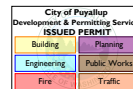


Plate Offsets (X,Y)-- [12:0-4-0,0-1-10]		14-9-0		14-9-0	
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>
TCLL 25.0	Plate Grip DOL	1.15	TC 0.25	in (loc) l/defl L/d	<b>GRIP</b>
TCDL 7.0	Lumber DOL	1.15	BC 0.12	Vert(LL) 0.00 2-23 >999 240	MT20 220/195
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Vert(CT) 0.00 2-23 >999 180	
BCDL 8.0	Code	IRC2015/TPI2014	Matrix-SH	Horz(CT) 0.00 13 n/a n/a	
				Weight: 116 lb	FT = 0%

#### LUMBER-

TOP CHORD 2x4 DF No.2 \*Except\*  
7-14: 2x10 DF SS  
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.

#### REACTIONS.

All bearings 14-9-0 except (jt=length) 13=0-5-8.  
(lb) - Max Horz 2=-159(LC 13)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 20, 21, 22, 23, 18, 17, 16, 15 except 13=-139(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 19, 20, 21, 22, 23, 18, 17, 16, 15 except 2=281(LC 1),  
12=324(LC 1), 13=343(LC 1)

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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 7-10-14, Corner(3) 7-10-14 to 11-9-7, Exterior(2) 11-9-7 to 21-8-0 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
- 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.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable studs spaced at 1-4-0 oc.
- 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 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 20, 21, 22, 23, 18, 17, 16, 15 except (jt=lb) 13=139.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 13.



April 22, 2021

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**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**



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





Job	Truss	Truss Type	Qty	Ply	STROBL ADD
2003855	T03	Common	22	1	

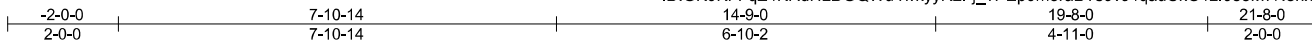
R66192209

Louws Truss, Inc., Ferndale, WA - 98248,

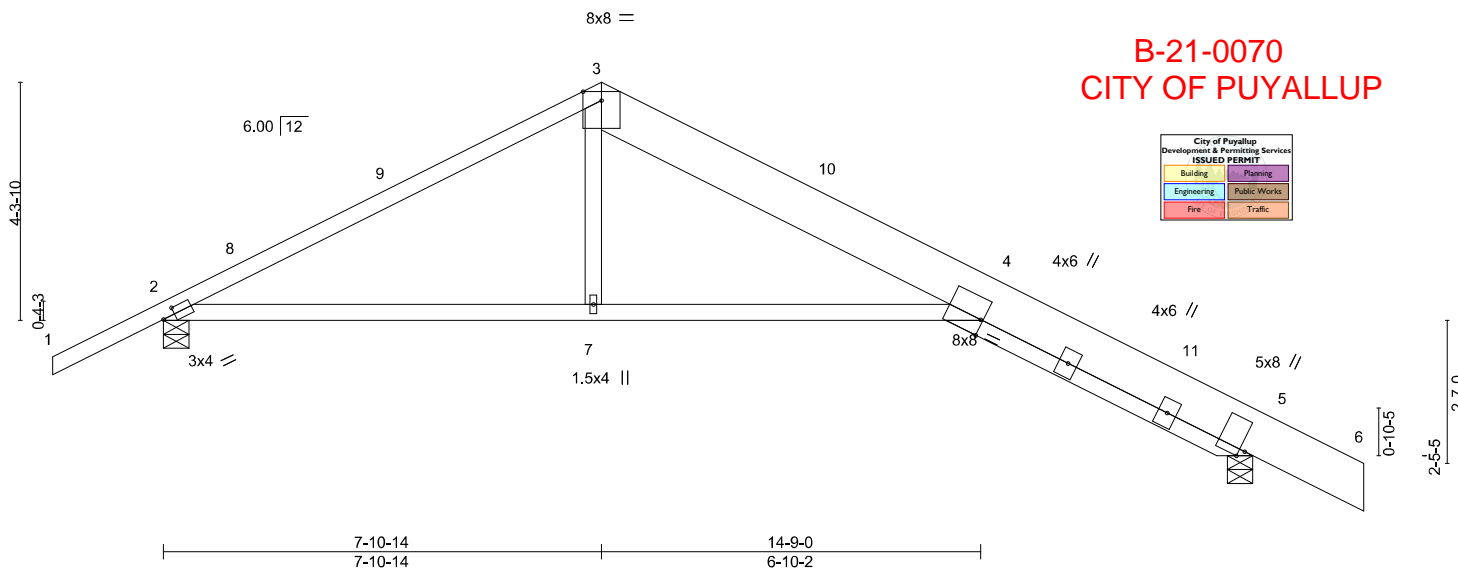
8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 17:19:31 2021 Page 1

ID:GK9KFFqZ4KRdHLDGQWu4wkyR2I-j\_?PEp0moraBTs9vJ4qauUkO1z10e3M7N3nxvezOQmA

Job Reference (optional)



Scale = 1:41.6



**B-21-0070**  
**CITY OF PUYALLUP**

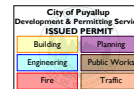


Plate Offsets (X,Y)-- [2:0-2-10,0-1-8], [4:0-0-9,Edge], [5:0-1-10,Edge]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15		TC 0.68	Vert(LL) -0.28	4-7	>831	240		MT20	220/195
TCDL 7.0	Lumber DOL 1.15		BC 0.49	Vert(CT) -0.47	4-7	>503	180			
BCLL 0.0 *	Rep Stress Incr YES		WB 0.05	Horz(CT) 0.21	5	n/a	n/a			
BCDL 8.0	Code IRC2015/TPI2014		Matrix-SH							
									Weight: 105 lb	FT = 0%

**LUMBER-**

TOP CHORD 2x4 DF No.2 \*Except\*  
3-6: 2x10 DF SS  
BOT CHORD 2x4 DF No.2  
WEBS 2x4 DF No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 3-11-15 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

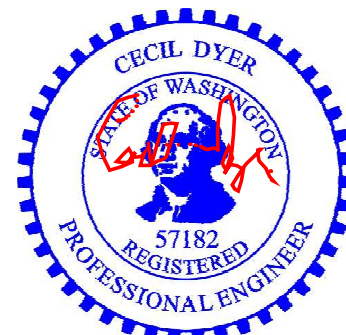
(size) 2=0-5-8, 5=0-5-8  
Max Horz 2=-160(LC 13)  
Max Uplift 2=-175(LC 12), 5=-208(LC 13)  
Max Grav 2=931(LC 1), 5=905(LC 1)

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

TOP CHORD 2-3=-1248/202, 3-4=-1054/196, 4-5=-301/161  
BOT CHORD 2-7=-27/1015, 4-7=-29/1008  
WEBS 3-7=0/308

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- 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 7-10-14, Exterior(2) 7-10-14 to 11-6-1, Interior(1) 11-6-1 to 21-8-0 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
- 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 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.
- Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=bt) 2=175, 5=208.



April 22, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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

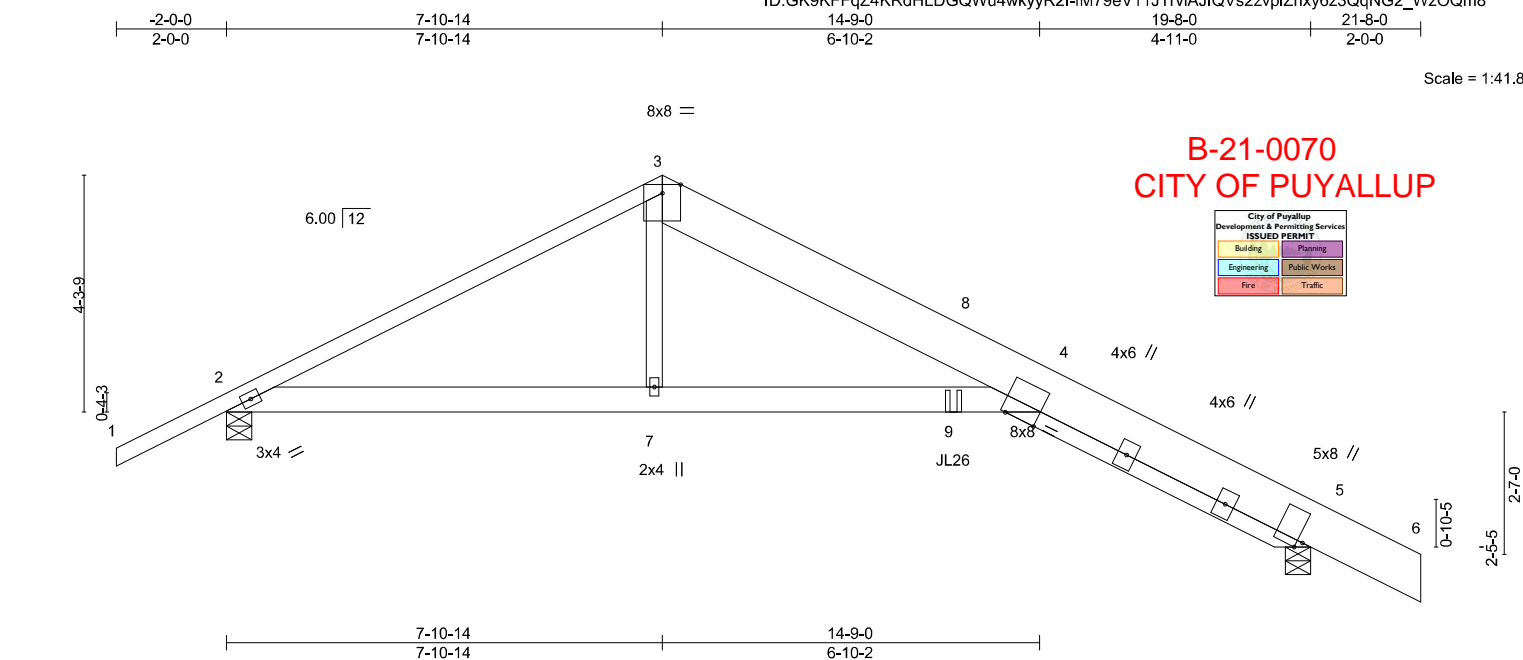


Plate Offsets (X,Y)-- [3:0-3-15,Edge], [4:0-6-14,Edge], [5:0-1-10,Edge]												
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d					<b>PLATES</b>	<b>GRIP</b>
TCLL	25.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.25	4-7	>929	240	MT20	220/195
TCDL	7.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.40	4-7	>584	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.18	5	n/a	n/a		
BCDL	8.0	Code IRC2015/TPI2014		Matrix-SH							Weight: 232 lb	FT = 0%

**LUMBER-**

TOP CHORD 2x4 DF No.2 \*Except\*  
3-6: 2x10 DF SS  
BOT CHORD 2x6 DF No.2  
WEBS 2x4 DF No.2

**REACTIONS.**

(size) 2=0-5-8, 5=0-5-8  
Max Horz 2=-239(LC 9)  
Max Uplift 2=-227(LC 8), 5=-380(LC 9)  
Max Grav 2=1152(LC 1), 5=1596(LC 1)

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

TOP CHORD 2-3=-1848/316, 3-4=-1557/245, 4-5=-579/218  
BOT CHORD 2-7=-67/1555, 4-7=-67/1538  
WEBS 3-7=0/443

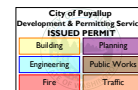
**NOTES-**

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) 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.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) 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
- 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 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.
- 7) Bearing at joint(s) 5 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 100 lb uplift at joint(s) except (jt=lb) 2=227, 5=380.
- 9) Use USP JL26 (With 6-10d nails into Girder & 4-10d x 1-1/2 nails into Truss) or equivalent at 13-2-4 from the left end to connect truss(es) to back face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.

## LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

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CITY OF PUYALLUP



April 22, 2021

Continued on page 2



Design valid for use only with MiteK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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

Job	Truss	Truss Type	Qty	Ply	STROBL ADD
2003855	T05	COMMON	6	2	R66192210

Louws Truss, Inc, Ferndale, WA - 98248,

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 17:19:33 2021 Page 2  
ID:GK9KFFqZ4KRdHLDGQWu4wkyyR2l-fM79eV11JTrviAJIQVs2zvplZnxy6z3QqNG2\_WzOQm8

**LOAD CASE(S)** Standard  
Uniform Loads (plf)  
Vert: 1-3=-64, 3-8=-64, 5-6=-64, 2-4=-16  
Concentrated Loads (lb)  
Vert: 9=-427(B)  
Trapezoidal Loads (plf)  
Vert: 8=-114(F=-50)-to-4=-125(F=-61), 4=-142(F=-61)-to-5=-173(F=-92)

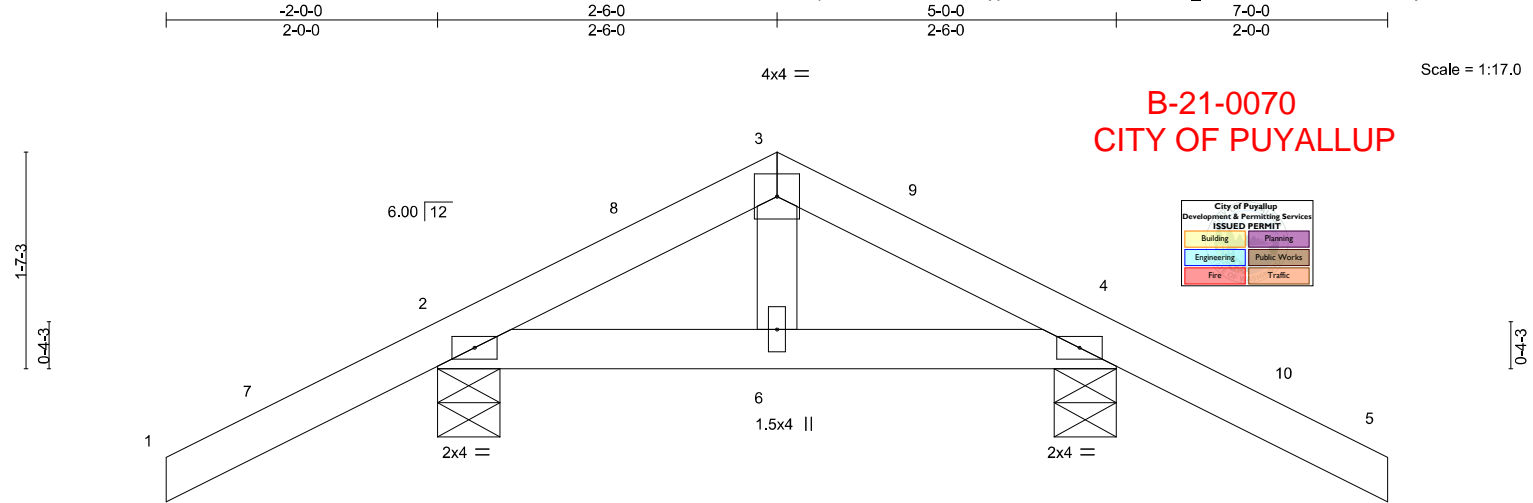
B-21-0070  
CITY OF PUYALLUP



Job	Truss	Truss Type	Qty	Ply	STROBL ADD	R66192211
2003855	T07	Common	12	1	Job Reference (optional)	

Louws Truss, Inc., Ferndale, WA - 98248,

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 17:19:34 2021 Page 1  
ID:GK9KFFqZ4KRdHLDGQWu4wkyR2L-7YhYsr2f4mzmKJuU\_DNHWT7?VBQkrQha31?cWyzOQm7



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	2-0-0	TC	0.28	in	(loc)	MT20		220/195	
TCDL	7.0	Lumber DOL	1.15	BC	0.04						
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02						
BCDL	8.0	Code	IRC2015/TPI2014	Matrix-P							

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 DF No.2	TOP CHORD	Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD	2x4 DF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 DF No.2		

**REACTIONS.** (size) 2=0-5-8, 4=0-5-8  
Max Horz 2=-36(LC 17)  
Max Uplift 2=-95(LC 12), 4=-95(LC 13)  
Max Grav 2=324(LC 1), 4=324(LC 1)

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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 2-6-0, Exterior(2) 2-6-0 to 6-1-3, Interior(1) 6-1-3 to 7-0-0 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
- 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 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



April 22, 2021

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**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601  
**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**



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Roseville, CA 95661

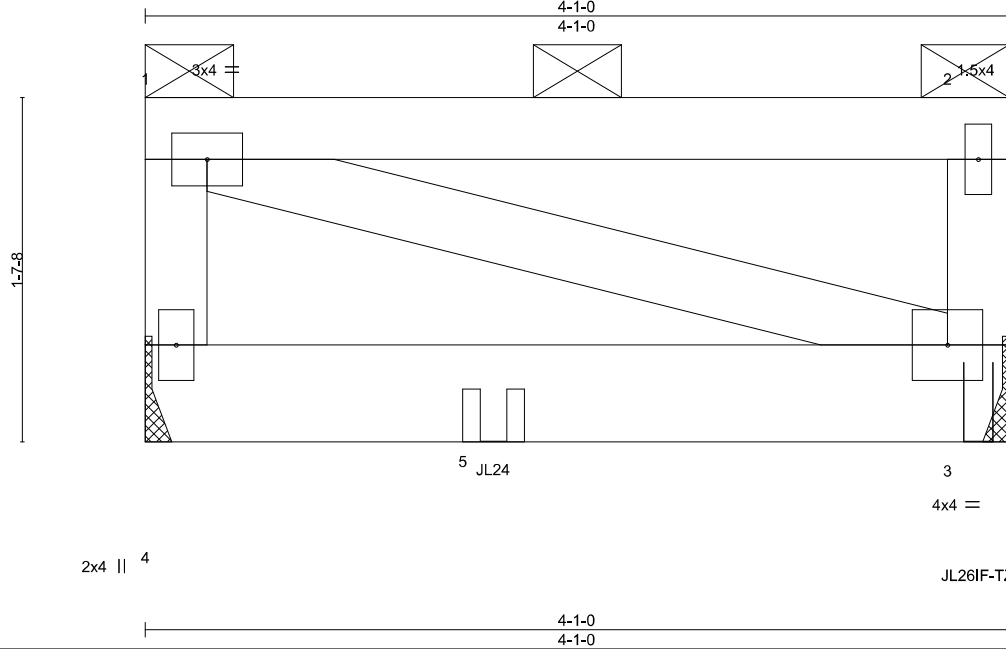


Job	Truss	Truss Type	Qty	Ply	STROBL ADD	R66192212
2003855	T08	Flat Girder	3	1	Job Reference (optional)	

Louws Truss, Inc., Ferndale, WA - 98248,

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 17:19:35 2021 Page 1

ID:GK9KFFqZ4KRdHLDGQWu4wkyyR2l-bIFw3B3Hr45dxTTThYwuW2KuAPafNas7Jlh92PzOQm6



Scale = 1:10.9

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.27	Vert(LL) -0.02	3-4	>999	240	MT20	220/195
TCDL 7.0	Lumber DOL 1.15	BC 0.47	Vert(CT) -0.03	3-4	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.01	Horz(CT) -0.00	3	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 2x6 DF No.2  
WEBS 2x4 DF No.2

#### BRACING-

TOP CHORD 2-0-0 oc purlins: 1-2, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 4=Mechanical, 3=Mechanical  
Max Horz 4=-44(LC 4)  
Max Uplift 4=-97(LC 4), 3=-163(LC 5)  
Max Grav 4=443(LC 1), 3=829(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; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=163.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) Use USP JL24 (With 4-10d nails into Girder & 2-10d x 1-1/2 nails into Truss) or equivalent at 1-7-12 from the left end to connect truss(es) to back face of bottom chord.
- 9) Use USP JL26IF-TZ (With 6-10d HDG nails into Girder & 4-10d x 1-1/2 HDG nails into Truss) or equivalent at 3-11-4 from the left end to connect truss(es) to back face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.
- 11) 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: 1-2=-64, 3-4=-16  
Concentrated Loads (lb)  
Vert: 3=-487(B) 5=-482(B)

**B-21-0070**  
**CITY OF PUYALLUP**



April 22, 2021

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**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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

Job	Truss	Truss Type	Qty	Ply	STROBL ADD	R66192213
2003855	T09	Common	6	1	Job Reference (optional)	

Louws Truss, Inc., Ferndale, WA - 98248,

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 17:19:36 2021 Page 1  
ID:GK9KFFqZ4KRdHLDGQWu4wkyyR2I-3xolHX4vcODUZd2t6ePIbYRFR\_0pJICtXLUIarZOQm5

-2-0-0  
2-0-0

7-10-14  
7-10-14

13-1-8  
5-2-10

Scale = 1:27.8

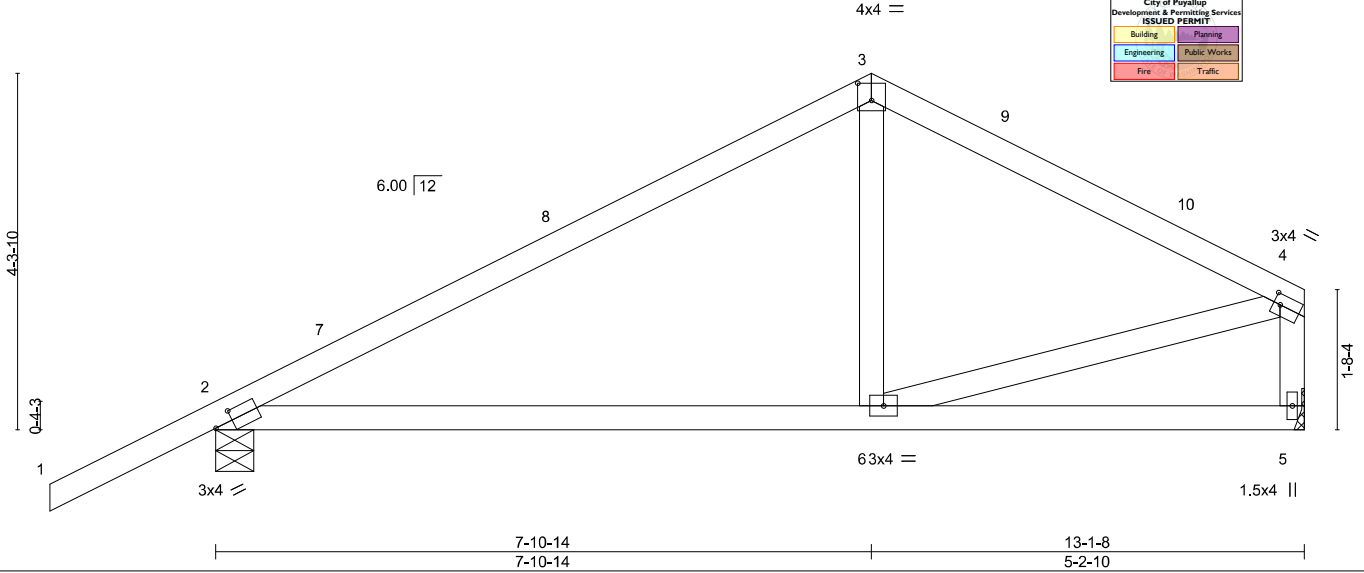


Plate Offsets (X,Y)--						
[2:0-2-10,0-1-8], [3:0-2-0,0-2-8], [4:0-1-0,0-1-8]						
LOADING (psf)	SPACING-		CSI.	DEFL.		
TCLL 25.0	Plate Grip DOL 1.15		TC 0.70	in (loc)	I/defl	L/d
TCDL 7.0	Lumber DOL 1.15		BC 0.39	Vert(LL) -0.08	2-6	>999 240
BCLL 0.0 *	Rep Stress Incr YES		WB 0.08	Vert(CT) -0.16	2-6	>978 180
BCDL 8.0	Code IRC2015/TPI2014		Matrix-SH	Horz(CT) 0.01	5	n/a n/a
					Weight: 54 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 5-9-4 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (size) 2=0-5-8, 5=Mechanical  
Max Horz 2=102(LC 9)  
Max Uplift 2=-155(LC 12), 5=-78(LC 13)  
Max Grav 2=665(LC 1), 5=498(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-617/140, 3-4=-558/162, 4-5=-478/170  
BOT CHORD 2-6=-115/442  
WEBS 4-6=-78/413

#### 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 7-10-14, Exterior(2) 7-10-14 to 11-6-1, Interior(1) 11-6-1 to 12-11-12 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=155.

**B-21-0070**  
**CITY OF PUYALLUP**



April 22, 2021

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

Job	Truss	Truss Type	Qty	Ply	STROBL ADD	R66192214
2003855	T12	Common	3	1	Job Reference (optional)	

Louws Truss, Inc, Ferndale, WA - 98248,

8.430 s Mar 22 2021 MiTek Industries, Inc. Wed Apr 21 17:19:37 2021 Page 1  
ID:GK9KFFqZ4KRdHLDGQWu4wkyyR2I-Y7MgUt4XNhLKBnd3fLw\_8lzZsORh2mU0I?EG7HzOQm4

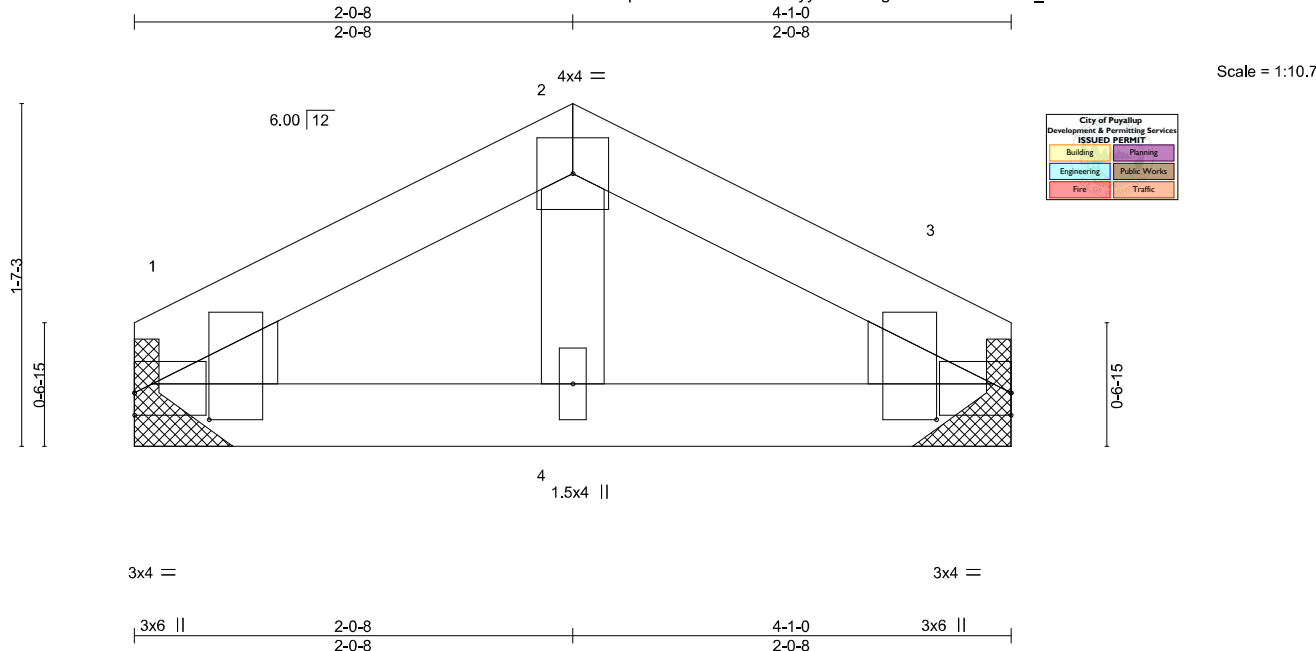


Plate Offsets (X,Y)--						
[1:0-0-0,0-1-4], [1:0-1-8,0-4-3], [3:Edge,0-1-4], [3:0-1-8,0-4-3]						
LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	L/defl L/d
TCLL 25.0	Plate Grip DOL 1.15		TC 0.08	Vert(LL) -0.00	1	>999 240
TCDL 7.0	Lumber DOL 1.15		BC 0.09	Vert(CT) -0.00	4	>999 180
BCLL 0.0 *	Rep Stress Incr YES		WB 0.01	Horz(CT) 0.00	3	n/a n/a
BCDL 8.0	Code IRC2015/TPI2014		Matrix-P			
					Weight: 15 lb FT = 0%	

#### LUMBER-

TOP CHORD 2x4 DF No.2  
BOT CHORD 2x4 DF No.2  
WEBS 2x4 DF No.2  
WEDGE  
Left: 2x4 DF No.2 , Right: 2x4 DF No.2

**REACTIONS.** (size) 1=Mechanical, 3=Mechanical  
Max Horz 1=-21(LC 17)  
Max Uplift 1=-24(LC 12), 3=-24(LC 13)  
Max Grav 1=145(LC 1), 3=145(LC 1)

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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
- 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 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

#### BRACING-

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

**B-21-0070**  
**CITY OF PUYALLUP**



April 22, 2021

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

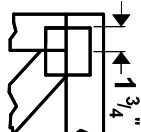
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



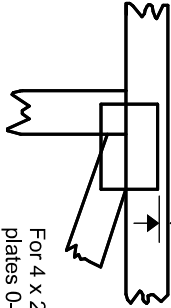
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Roseville, CA 95661

# Symbols

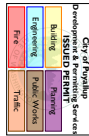
## PLATE LOCATION AND ORIENTATION



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.



— 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

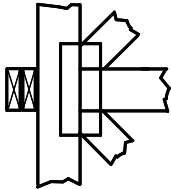
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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/TP1: 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

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

