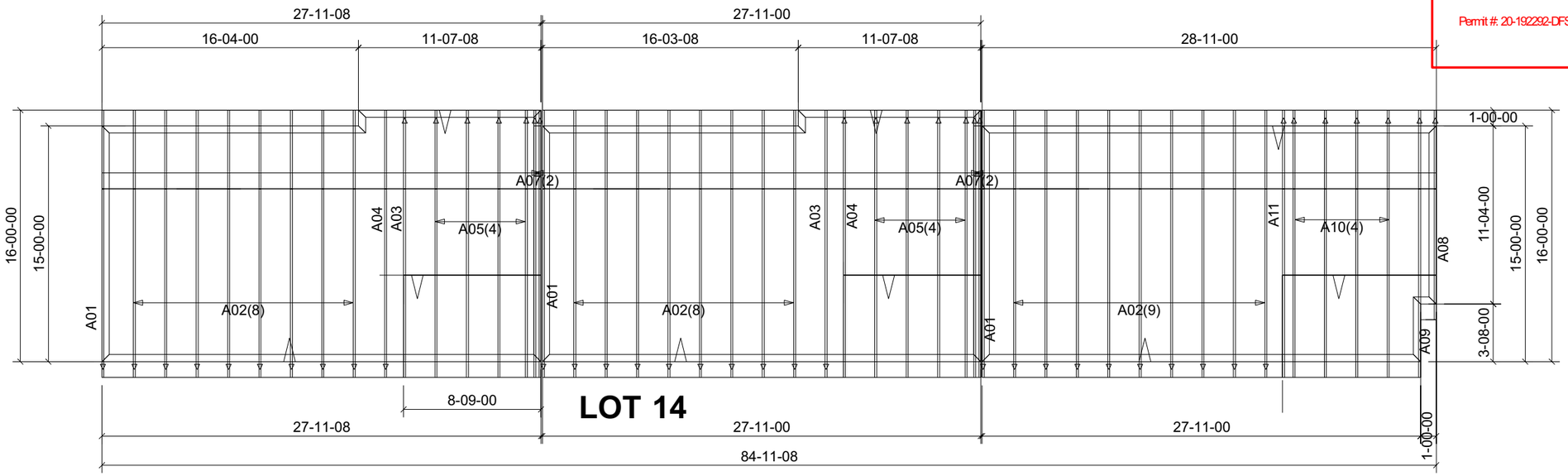
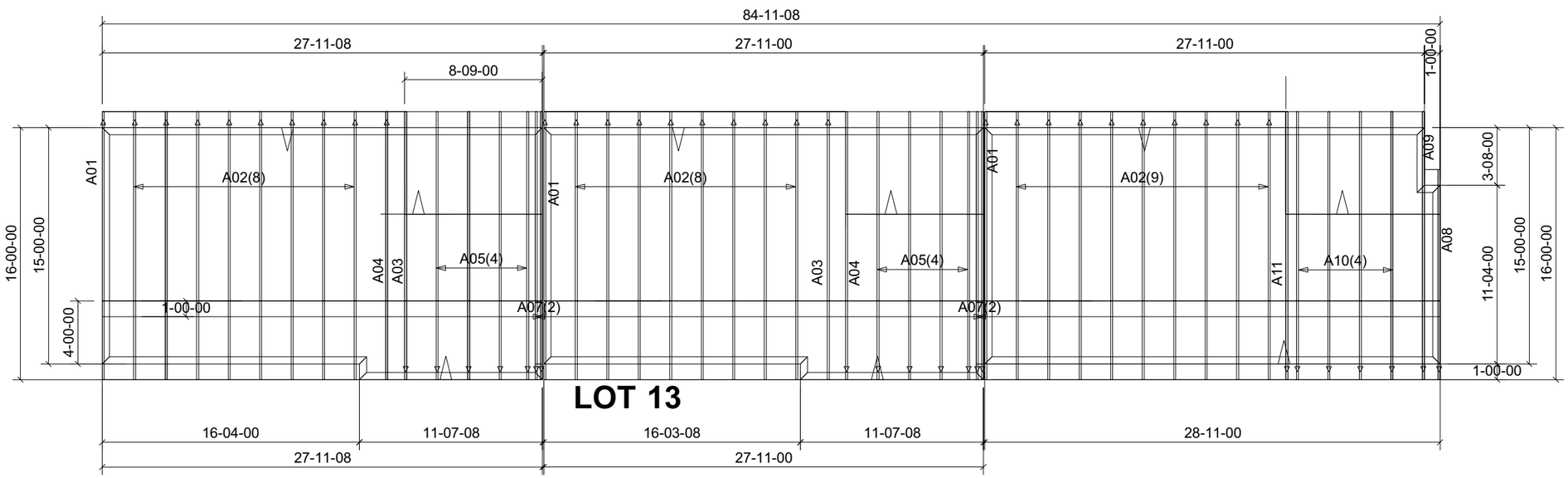
ALL TRUSS TO BUILDING CONNECTIONS ARE THE RESPONSIBILTY OF THE BUILDING DESIGNER OR THE ENGINEER OF RECORD



6/12 PITCH 1'-0" OH

VERIFY EXACT BUILDING STEP HEIGHTS

20- 192292/300/304/310/315/317- DFS 01RS



City Of Portland

REVIEWED FOR CODE COMPLIANCE

Date: 11/28/21

Permit #: 20-192292-DFS-01-RS

Pacific Lumber & TRUSS COMPANY

10515 SW ALLEN BLVD.
BEAVERTON, OR 97005
PHONE: (503) 858-9663

ABOVE PLAN PROVIDED FOR TRUSS PLACEMENT ONLY. REFER TO TRUSS CALCULATIONS AND ENGINEERED STRUCTURAL DRAWINGS FOR ALL FURTHER INFORMATION. BUILDING DESIGNER/ENGINEER OF RECORD RESPONSIBLE FOR ALL NON-TRUSS TO TRUSS CONNECTION. BUILDING DESIGNER/ENGINEER OF RECORD TO REVIEW AND APPROVE OF ALL DESIGNS PRIOR TO CONSTRUCTION.

24782

BUILDER: RUBEN RYAPOLOV

LOT: 13 & 14 SUBDIV:

PLAN: SE PINE STREET LOT 13 & 14

DEL LOC: PORTLAND, OREGON

DATE: 8-30-21

LOAD: 25-7-10 (COMP)

SALES: TD

DES: ECR

20- 192292/300/304/310/315/317-RS

MiTek USA, Inc.
250 Klug Circle
Corona, CA 92880
951-245-9525

Re: 24782
RUBEN RYAPOLOV-PINE ST LOT 13 & 14

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

Pages or sheets covered by this seal: K10196963 thru K10196972

My license renewal date for the state of Oregon is December 31, 2021.

August 31,2021

Baxter, David

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	RUBEN RYAPOLOV-PINE ST LOT 13 & 14
24782	A01	Roof Special Supported Gable	6	1	K10190963

Job Reference (optional)

City of Portland
Reviewed for code compliance
Date: 11/28/21
Project #: 20-192292-DFS-01-RS

Pacific Lumber & Truss Co., Lake Oswego, OR - 97035, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 30 12:58:55 2021 Page 1
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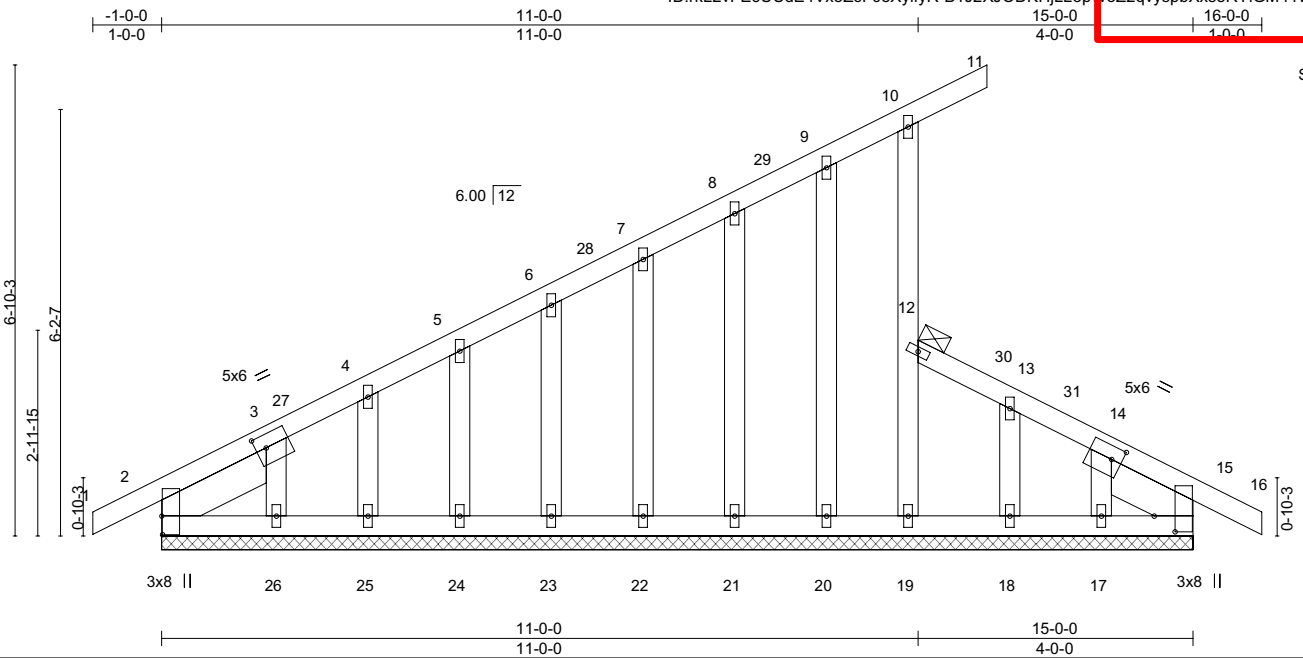

Plate Offsets (X,Y)-- [2:0-3-4,0-0-2], [3:0-1-13,0-2-4], [14:0-1-13,0-2-4], [15:0-2-12,0-3-10]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	15	n/r	120	MT20	220/195
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.01	Vert(CT)	0.00	15	n/r	120		
TCDL	7.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	15	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-S							Weight: 96 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2X4 DF No.1&Btr G
BOT CHORD 2X4 DF No.1&Btr G
WEBS 2X4 DF No.1&Btr G
OTHERS 2X4 DF Std G
SLIDER Left 2x6 DF SS -G- 1-9-10, Right 2x6 DF SS -G- 1-5-3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except: 6-0-0 oc bracing: 10-12
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 12

REACTIONS. All bearings 15-0-0.
(lb) - Max Horz 2=260(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 19, 15, 20, 21, 22, 23, 24, 25, 26, 18, 17
Max Grav All reactions 250 lb or less at joint(s) 2, 15, 20, 21, 22, 23, 24, 25, 26, 18, 17 except 19=313(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-380/129, 3-4=-281/97, 12-19=-286/285, 10-12=-217/254

NOTES-
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 16-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 18.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) All plates are 1.5x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 1-4-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 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.
11) A plate rating reduction of 20% has been applied for the green lumber members.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 15, 20, 21, 22, 23, 24, 25, 26, 18, 17.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

RENEWAL DATE: 12-31-2021
August 31,2021

MiTek
250 Klug Circle
Corona, CA 92880

Job	Truss	Truss Type	Qty	Ply	RUBEN RYAPOLOV-PINE ST LOT 13 & 14
24782	A02	Roof Special	50	1	K10190964
					Job Reference (optional)

Pacific Lumber & Truss Co., Lake Oswego, OR - 97035, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 30 12:58:56 2021 Page 1
ID:rkL2vFE6UUdE4VxoZcF05XyifyR-fDtQkfPs5brCzDGiLGZ3S9Px8xCRNoGuV0pa2zyil6T

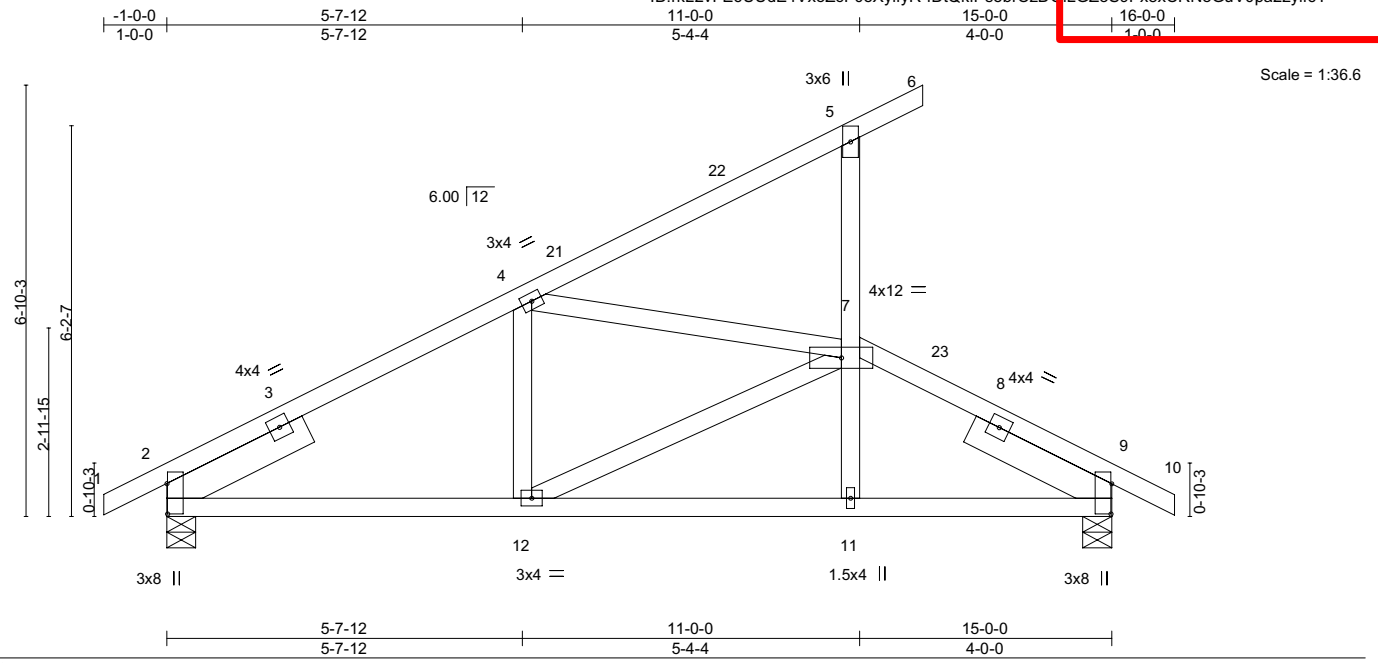

Plate Offsets (X,Y)-- [2:0-5-12,0-0-2], [9:0-5-12,0-0-2]

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	0.29	Vert(LL)	-0.04	11-12	>999	240	MT20	220/195
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.09	11-12	>999	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.03	9	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 85 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2X4 DF No.1&Btr G
BOT CHORD 2X4 DF No.1&Btr G
WEBS 2X4 DF Std G *Except*
5-11: 2X4 DF No.1&Btr G
SLIDER Left 2x6 DF SS -G- 2-6-0, Right 2x6 DF SS -G- 2-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-2 oc purlins, except end verticals. Except:
6-0-0 oc bracing: 5-7
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-5-8, 9=0-5-8
Max Horz 2=265(LC 14)
Max Uplift 2=-27(LC 14), 9=-124(LC 14)
Max Grav 2=795(LC 21), 9=783(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-928/104, 5-7=-358/208, 7-9=-1178/374
BOT CHORD 2-12=-200/874, 11-12=-269/1034, 9-11=-270/1017
WEBS 4-7=-833/265

NOTES-
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 16-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 18.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 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) A plate rating reduction of 20% has been applied for the green lumber members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 9=124.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

RENEWAL DATE: 12-31-2021
August 31,2021

Job	Truss	Truss Type	Qty	Ply	RUBEN RYAPOLOV-PINE ST LOT 13 & 14
24782	A03	Roof Special	4	1	K10109965
					Job Reference (optional)

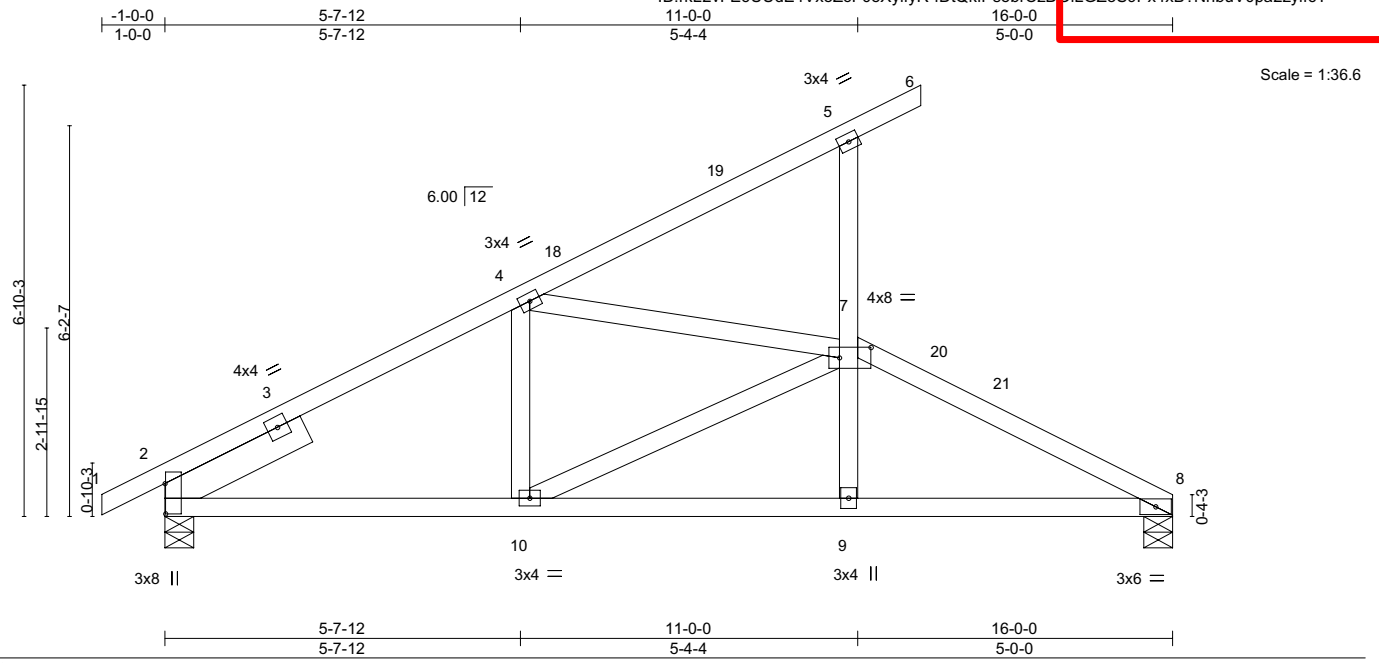

Plate Offsets (X,Y)-- [2:0-5-12,0-0-2], [7:0-6-0,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.05	9-10	>999	240	MT20	220/195
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.10	9-10	>999	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.03	8	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 81 lb	FT = 20%

LUMBER-
TOP CHORD 2X4 DF No.1&Btr G
BOT CHORD 2X4 DF No.1&Btr G
WEBS 2X4 DF Std G *Except*
5-9: 2X4 DF No.1&Btr G
SLIDER Left 2x6 DF SS -G- 2-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-2 oc purlins, except end verticals. Except:
6-0-0 oc bracing: 5-7
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-5-8, 2=0-5-8
Max Horz 2=263(LC 14)
Max Uplift 8=-109(LC 14), 2=-35(LC 14)
Max Grav 8=754(LC 21), 2=844(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1018/123, 5-7=-363/207, 7-8=-1480/440
BOT CHORD 2-10=-222/952, 9-10=-329/1272, 8-9=-345/1306
WEBS 4-10=-14/275, 4-7=-922/282, 7-10=-355/154

NOTES-
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 16-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 18.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 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) A plate rating reduction of 20% has been applied for the green lumber members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 8=109.
9) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

RENEWAL DATE: 12-31-2021
August 31,2021

Job	Truss	Truss Type	Qty	Ply	RUBEN RYAPOLOV-PINE ST LOT 13 & 14
24782	A04	GABLE	4	1	K10109966
					Job Reference (optional)

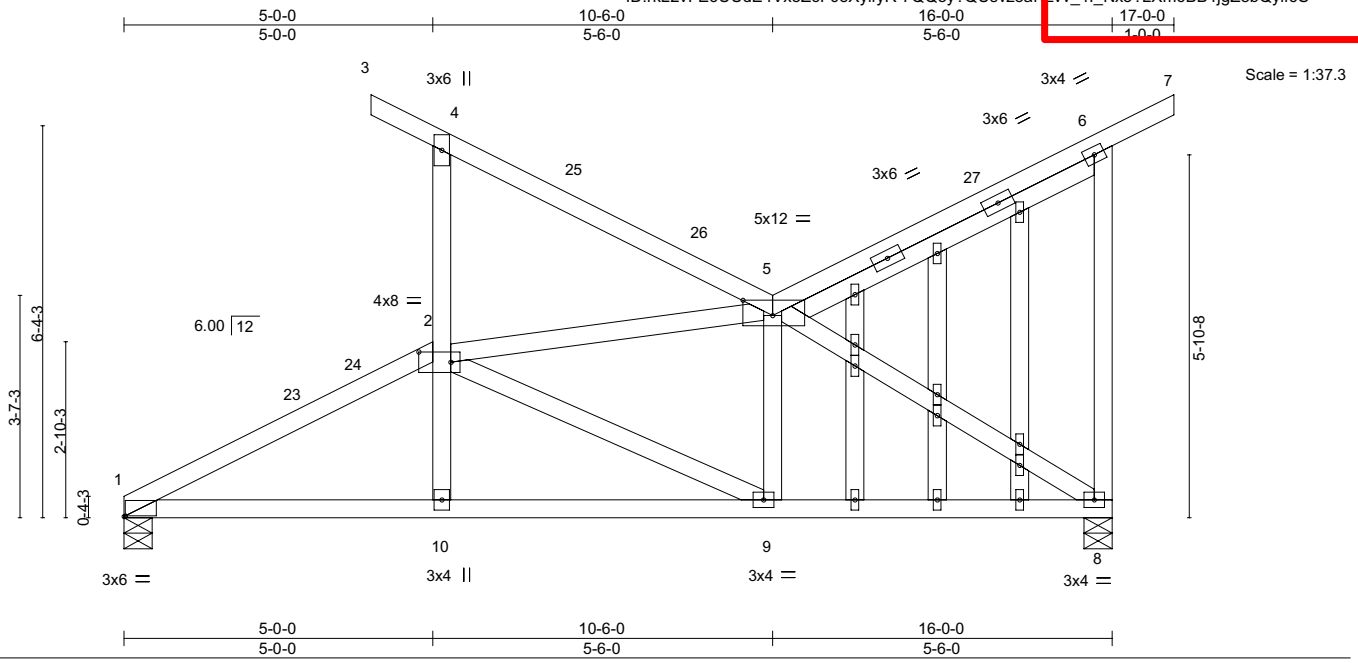

Plate Offsets (X,Y)-- [1:0-0-4,Edge], [2:0-6-4,0-2-0], [5:0-5-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.04	10-22	>999	240	MT20	220/195
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.09	10-22	>999	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.03	8	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS							Weight: 115 lb	FT = 20%
BCDL	10.0											

LUMBER-

TOP CHORD	2X4 DF No.1&Btr G
BOT CHORD	2X4 DF No.1&Btr G
WEBS	2X4 DF Std G *Except*
	4-10,6-8: 2X4 DF No.1&Btr G
OTHERS	2X4 DF Std G

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-3-7 oc purlins, except end verticals. Except: 6-0-0 oc bracing: 2-4
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-5-8, 8=0-5-8
Max Horz 1=183(LC 11)
Max Uplift 1=-37(LC 14), 8=-37(LC 15)
Max Grav 1=789(LC 21), 8=804(LC 37)

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

TOP CHORD	1-2=-1424/463, 2-4=-359/239, 6-8=-345/180
BOT CHORD	1-10=-318/1230, 9-10=-308/1176, 8-9=-158/865
WEBS	2-5=-822/239, 2-9=-390/197, 5-9=-21/300, 5-8=-1011/131

NOTES-

1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-1-12, Exterior(2E) 4-0-0 to 7-0-0, Interior(1) 7-0-0 to 17-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 18.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
8) Gable studs spaced at 1-4-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 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.
11) A plate rating reduction of 20% has been applied for the green lumber members.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

RENEWAL DATE: 12-31-2021
August 31,2021

Job	Truss	Truss Type	Qty	Ply	RUBEN RYAPOLOV-PINE ST LOT 13 & 14
24782	A05	Roof Special	16	1	K10196967 Job Reference (optional)

City of Portland
Reviewed for code compliance
Date: 11/28/21
Project #: 20-192292-DFS-01-RS

Pacific Lumber & Truss Co., Lake Oswego, OR - 97035, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 30 12:58:58 2021 Page 1
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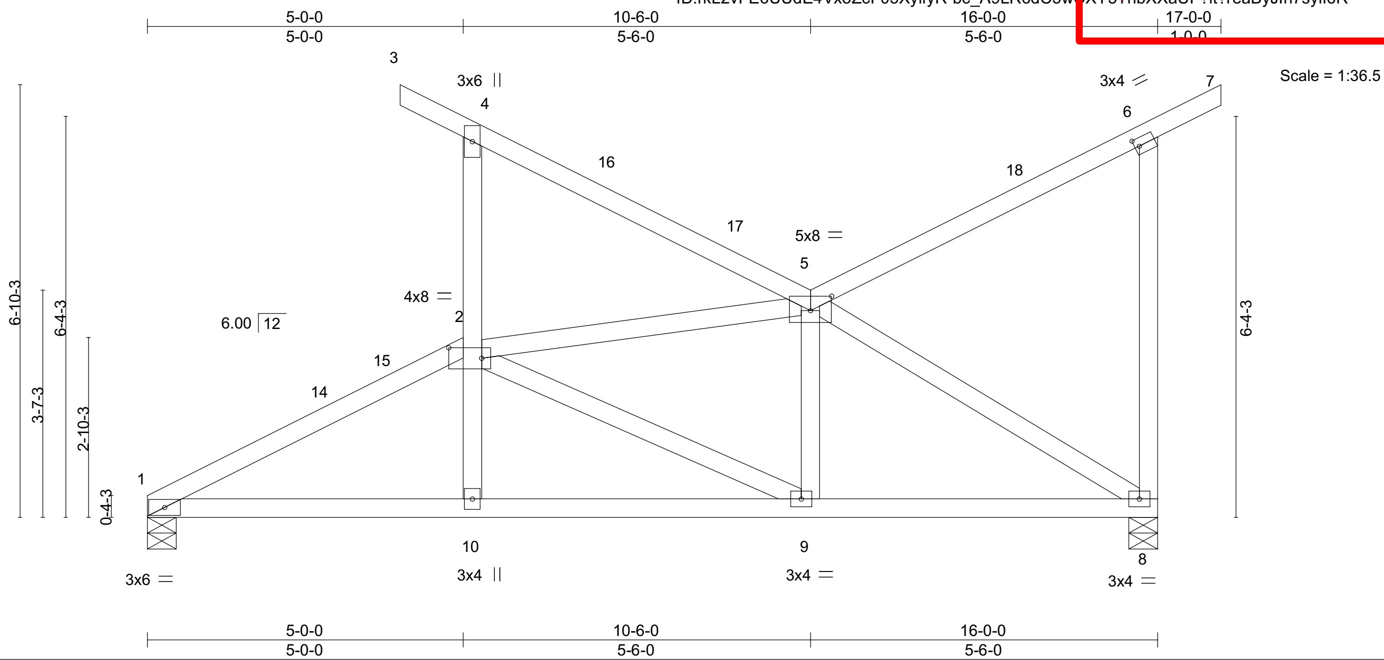


Plate Offsets (X,Y)-- [2:0-6-4,0-2-0], [5:0-4-0,0-2-12], [6:0-0-13,0-1-8]

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	0.39	Vert(LL)	-0.04	10-13	>999	240	MT20	220/195
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.09	10-13	>999	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.03	8	n/a	n/a		
BCLL	0.0 *	Code IBC2018/TPI2014		Matrix-MS							Weight: 92 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2X4 DF No.1&Btr G
BOT CHORD 2X4 DF No.1&Btr G
WEBS 2X4 DF Std G *Except*
4-10,6-8: 2X4 DF No.1&Btr G

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-7 oc purlins, except end verticals. Except:
6-0-0 oc bracing: 2-4
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-5-8, 8=0-5-8
Max Horz 1=183(LC 11)
Max Uplift 1=-37(LC 14), 8=-37(LC 15)
Max Grav 1=789(LC 21), 8=804(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1424/463, 2-4=-364/239, 6-8=-344/181
BOT CHORD 1-10=-318/1230, 9-10=-308/1175, 8-9=-158/855
WEBS 2-5=-808/239, 2-9=-398/198, 5-9=-21/300, 5-8=-997/126

NOTES-
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-1-12, Exterior(2E) 4-0-0 to 7-0-0, Interior(1) 7-0-0 to 17-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 18.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * 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.
8) A plate rating reduction of 20% has been applied for the green lumber members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

August 31,2021

Job	Truss	Truss Type	Qty	Ply	RUBEN RYAPOLOV-PINE ST LOT 13 & 14
24782	A07	Roof Special Supported Gable	8	1	K10109968
					Job Reference (optional)

Pacific Lumber & Truss Co., Lake Oswego, OR - 97035, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 30 12:59:00 2021 Page 1
ID:rkL2vFE6UUdE4VxoZcF05XyifyR-X?6xa1SM9qMeRhTa6o?c?Zc4YdSJnaUPdnoBlyfi6P

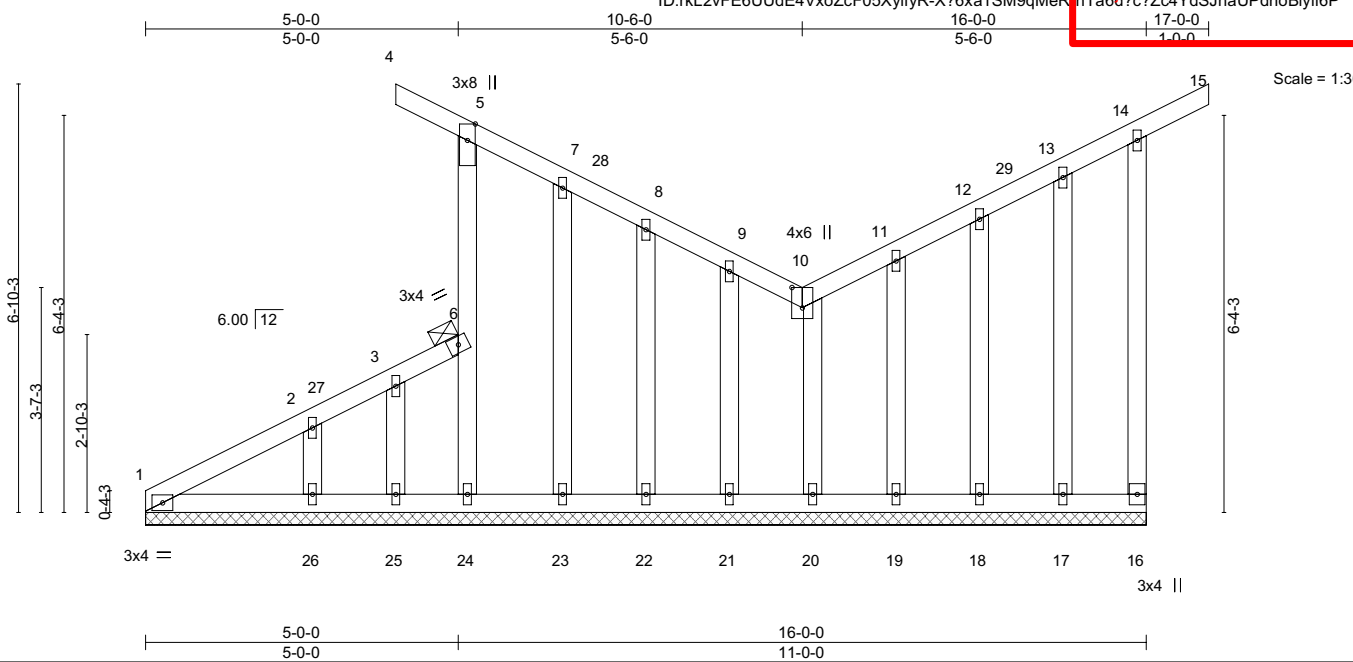


Plate Offsets (X,Y)-- [10:0-3-15,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.00	15	n/r	120	MT20	220/195
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	14-15	n/r	120		
TCDL	7.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	16	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 109 lb	FT = 20%

LUMBER-

TOP CHORD	2X4 DF No.1&Btr G
BOT CHORD	2X4 DF No.1&Btr G
WEBS	2X4 DF No.1&Btr G
OTHERS	2X4 DF Std G

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except: 6-0-0 oc bracing: 5-6
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 6

REACTIONS. All bearings 16-0-0.
(lb) - Max Horz 1=184(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1, 24, 22, 23, 25, 26, 21, 19, 18, 17 except 16=-109(LC 19)
Max Grav All reactions 250 lb or less at joint(s) 1, 16, 22, 23, 25, 21, 20, 19, 18, 17 except 24=305(LC 36), 26=331(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-6=-176/270, 6-24=-274/197, 5-6=-221/326
WEBS 2-26=-261/121

NOTES-

1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 5-1-12, Corner(3E) 4-0-0 to 7-0-0, Exterior(2N) 7-0-0 to 17-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 18.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 1-4-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 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.
12) A plate rating reduction of 20% has been applied for the green lumber members.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 24, 22, 23, 25, 26, 21, 19, 18, 17 except (jt=lb) 16=109.
14) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
15) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

RENEWAL DATE: 12-31-2021
August 31,2021

Job	Truss	Truss Type	Qty	Ply	RUBEN RYAPOLOV-PINE ST LOT 13 & 14
24782	A08	Roof Special Supported Gable	2	1	K10190969

Job Reference (optional)

Pacific Lumber & Truss Co., Lake Oswego, OR - 97035, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Aug 30 12:59:01 2021 Page 1
ID:rkL2vFE6UUdE4VxoZcF05XyifyR-?BgJoNT_w7UV3?Gg8q9E9D6oByzV29zdeHXLkByif6O

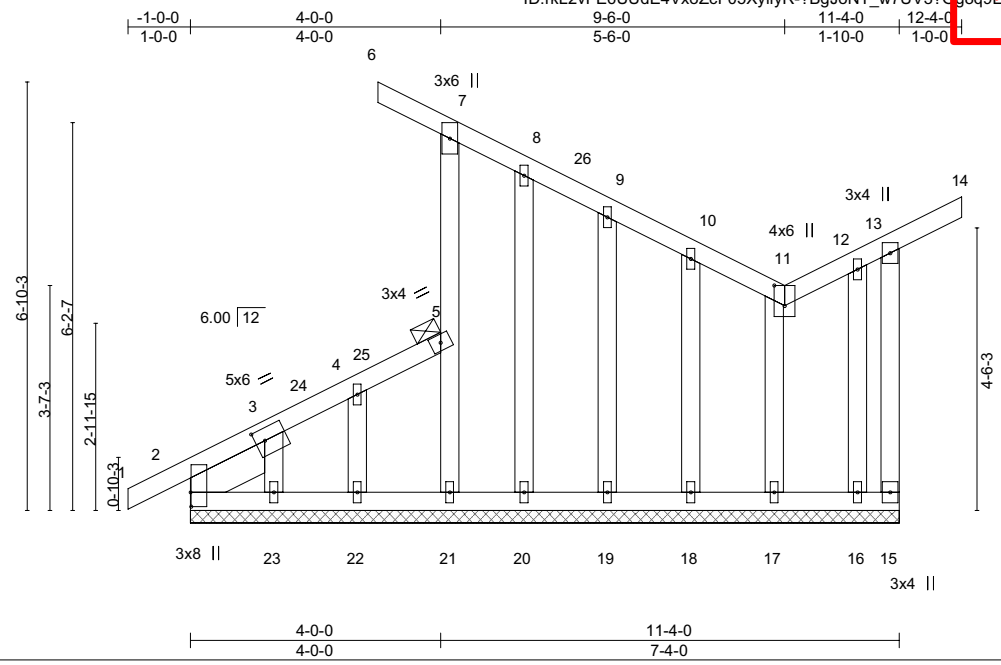


Plate Offsets (X,Y)-- [2:0-2-12,0-0-2], [3:0-1-13,0-2-4], [11:0-3-15,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	-0.01	14	n/r	120	MT20	220/195
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.01	13-14	n/r	120		
TCDL	7.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	15	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-S								
BCDL	10.0										Weight: 85 lb	FT = 20%

LUMBER-

TOP CHORD	2X4 DF No.1&Btr G
BOT CHORD	2X4 DF No.1&Btr G
WEBS	2X4 DF No.1&Btr G
OTHERS	2X4 DF Std G
SLIDER	Left 2x6 DF SS -G- 1-5-3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except: 6-0-0 oc bracing: 5-7
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 5

REACTIONS. All bearings 11-4-0.
(lb) - Max Horz 2=138(LC 15)
Max Uplift All uplift 100 lb or less at joint(s) 21, 2, 22, 23, 20, 19, 18, 17, 16 except 15=-126(LC 19)
Max Grav All reactions 250 lb or less at joint(s) 15, 2, 22, 23, 20, 19, 18, 17, 16 except 21=336(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-21=-309/254, 5-7=-235/337

NOTES-

1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 4-1-12, Corner(3E) 3-0-0 to 6-0-0, Exterior(2N) 6-0-0 to 12-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 18.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 1-4-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 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.
12) A plate rating reduction of 20% has been applied for the green lumber members.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21, 2, 22, 23, 20, 19, 18, 17, 16 except (jt=lb) 15=126.
14) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

RENEWAL DATE: 12-31-2021
August 31,2021

Job	Truss	Truss Type	Qty	Ply	RUBEN RYAPOLOV-PINE ST LOT 13 & 14
24782	A09	GABLE	2	1	K10109970
					Job Reference (optional)

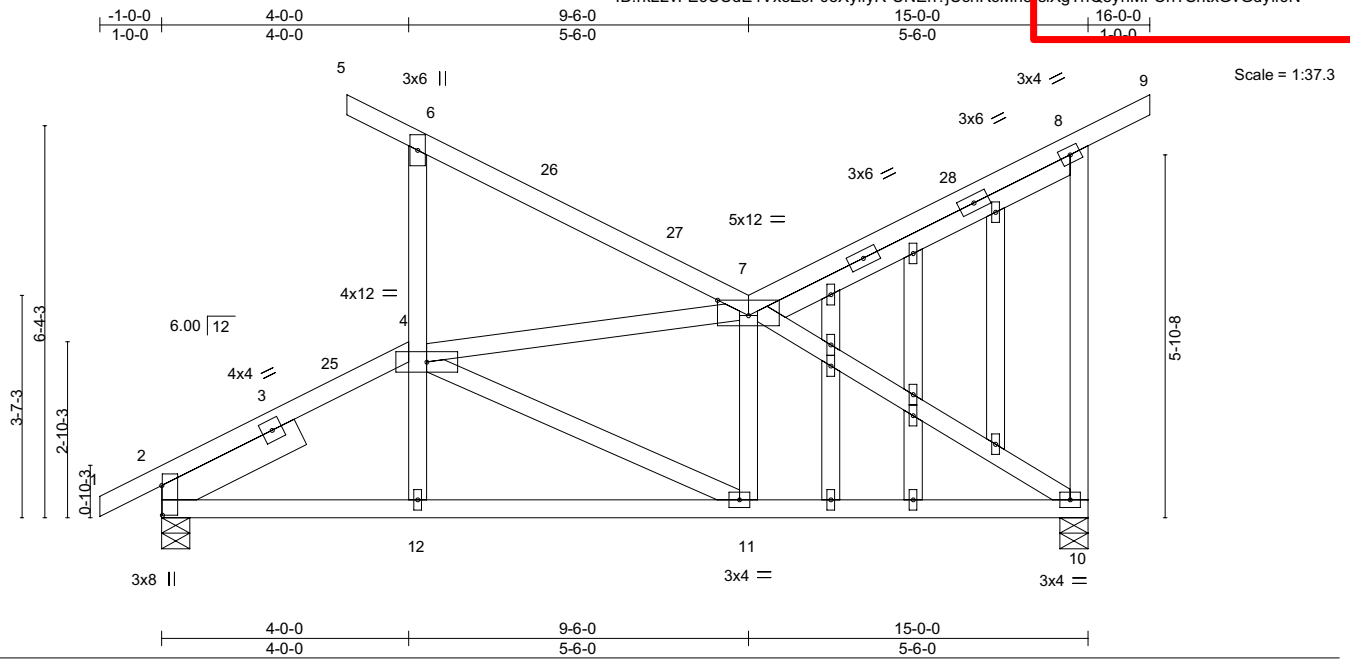


Plate Offsets (X,Y)-- [2:0-5-12,0-0-2], [7:0-6-0,Edge]

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	0.34	Vert(LL)	-0.03	11-12	>999	240	MT20	220/195
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.08	11-12	>999	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.02	10	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 118 lb	FT = 20%

LUMBER-

TOP CHORD	2X4 DF No.1&Btr G
BOT CHORD	2X4 DF No.1&Btr G
WEBS	2X4 DF Std G *Except*
	6-12,8-10: 2X4 DF No.1&Btr G
OTHERS	2X4 DF Std G
SLIDER	Left 2x6 DF SS -G- 2-6-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except: 6-0-0 oc bracing: 4-6
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-5-8, 2=0-5-8
Max Horz 2=181(LC 11)
Max Uplift 10=-41(LC 15), 2=-47(LC 14)
Max Grav 10=776(LC 37), 2=844(LC 35)

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

TOP CHORD	2-4=-1106/390, 4-6=-374/242, 8-10=-345/184
BOT CHORD	2-12=-309/954, 11-12=-303/964, 10-11=-160/782
WEBS	4-7=-727/215, 4-11=-291/158, 7-11=0/264, 7-10=-913/133

NOTES-

1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 4-1-12, Exterior(2E) 3-0-0 to 6-0-0, Interior(1) 6-0-0 to 16-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 18.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
8) Gable studs spaced at 1-4-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 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.
11) A plate rating reduction of 20% has been applied for the green lumber members.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 2.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

RENEWAL DATE: 12-31-2021
August 31,2021

Job	Truss	Truss Type	Qty	Ply	RUBEN RYAPOLOV-PINE ST LOT 13 & 14
24782	A10	Roof Special	8	1	K10109971
					Job Reference (optional)

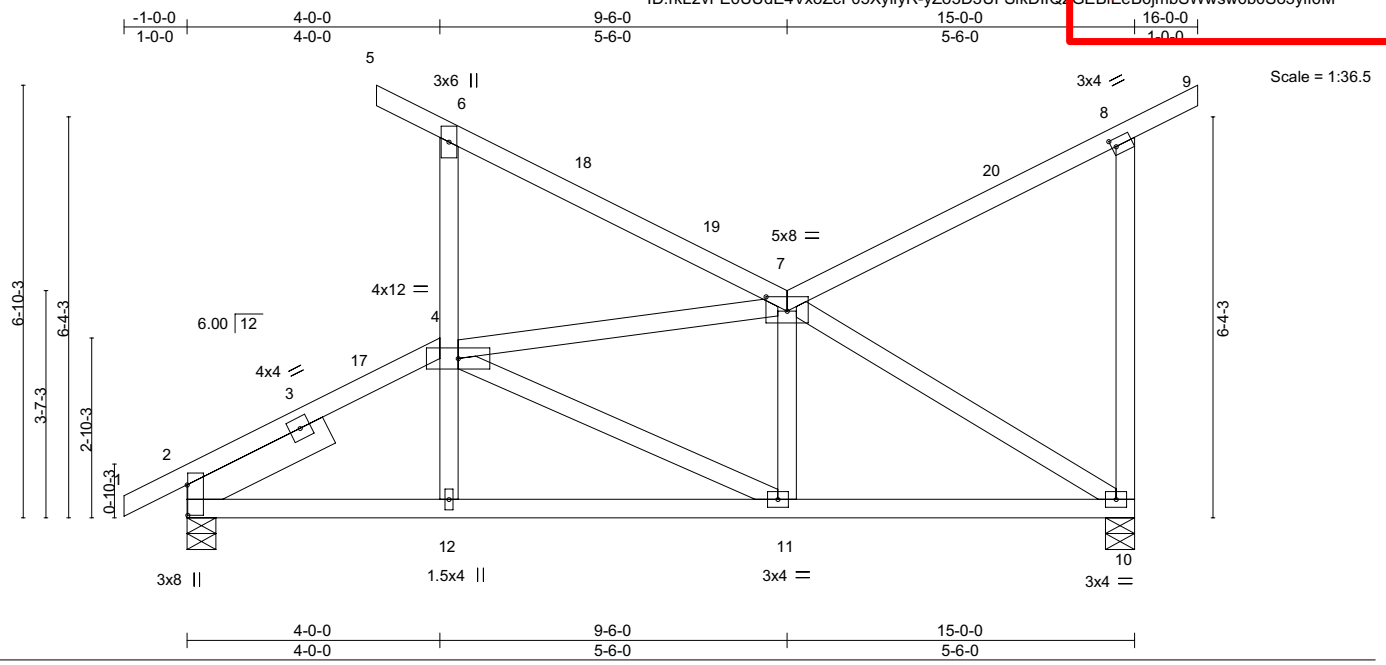


Plate Offsets (X,Y)-- [2:0-5-12,0-0-2], [7:0-4-0,0-2-12], [8:0-0-13,0-1-8]

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	0.39	Vert(LL)	-0.03	11-12	>999	240	MT20	220/195
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.08	11-12	>999	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.02	10	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 96 lb	FT = 20%

LUMBER-
TOP CHORD 2X4 DF No.1&Btr G
BOT CHORD 2X4 DF No.1&Btr G
WEBS 2X4 DF Std G *Except*
6-12,8-10: 2X4 DF No.1&Btr G
SLIDER Left 2x6 DF SS -G- 2-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except:
6-0-0 oc bracing: 4-6
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-5-8, 2=0-5-8
Max Horz 2=181(LC 11)
Max Uplift 10=-41(LC 15), 2=-47(LC 14)
Max Grav 10=776(LC 37), 2=844(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1106/390, 4-6=-379/242, 8-10=-344/186
BOT CHORD 2-12=-309/954, 11-12=-303/963, 10-11=-161/772
WEBS 4-7=-714/215, 4-11=-290/157, 7-11=0/264, 7-10=-899/127

NOTES-
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 4-1-12, Exterior(2E) 3-0-0 to 6-0-0, Interior(1) 6-0-0 to 16-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 18.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * 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.
8) A plate rating reduction of 20% has been applied for the green lumber members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 2.
10) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

RENEWAL DATE: 12-31-2021
August 31,2021

Job	Truss	Truss Type	Qty	Ply	RUBEN RYAPOLOV-PINE ST LOT 13 & 14
24782	A11	GABLE	2	1	K10109972
					Job Reference (optional)

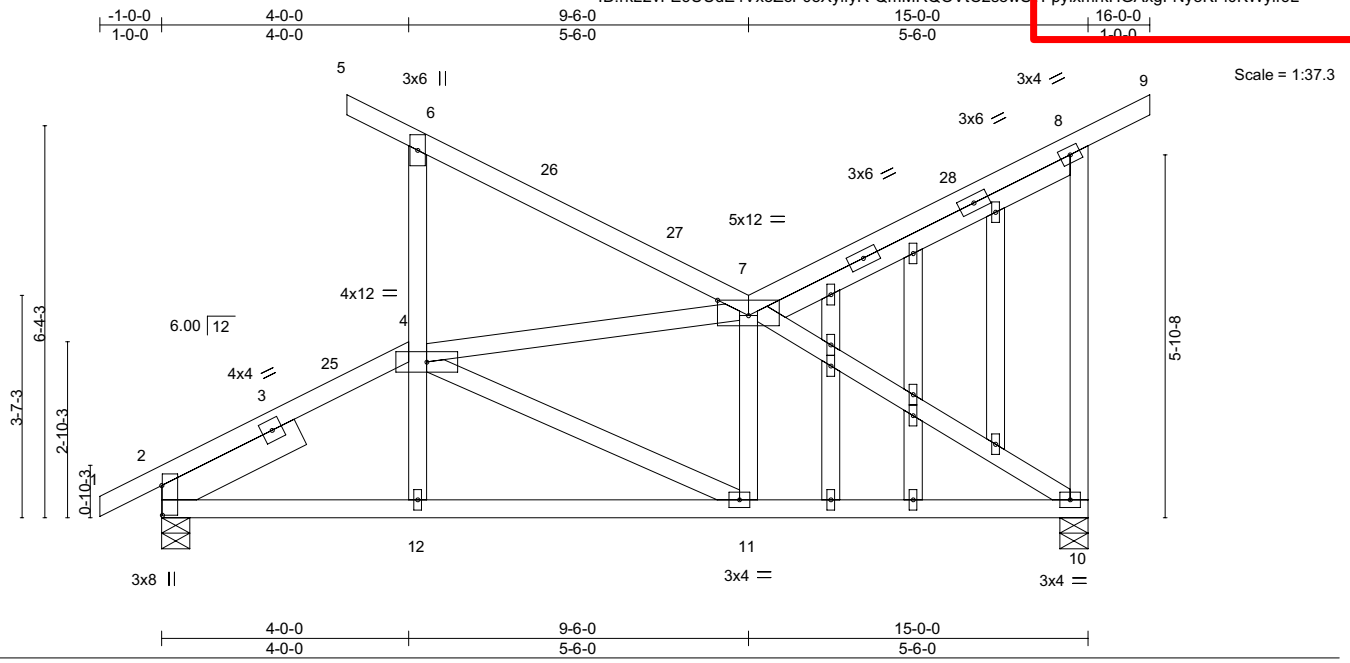


Plate Offsets (X,Y)-- [2:0-5-12,0-0-2], [7:0-6-0,Edge]

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	0.34	Vert(LL)	-0.03	11-12	>999	240	MT20	220/195
(Roof Snow=25.0)		Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.08	11-12	>999	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.02	10	n/a	n/a		
BCLL	0.0 *	Code	IBC2018/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 118 lb	FT = 20%

LUMBER-

TOP CHORD	2X4 DF No.1&Btr G
BOT CHORD	2X4 DF No.1&Btr G
WEBS	2X4 DF Std G *Except*
	6-12,8-10: 2X4 DF No.1&Btr G
OTHERS	2X4 DF Std G
SLIDER	Left 2x6 DF SS -G- 2-6-0

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except: 6-0-0 oc bracing: 4-6
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-5-8, 2=0-5-8
Max Horz 2=181(LC 11)
Max Uplift 10=-41(LC 15), 2=-47(LC 14)
Max Grav 10=776(LC 37), 2=844(LC 35)

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

TOP CHORD	2-4=-1106/390, 4-6=-374/242, 8-10=-345/184
BOT CHORD	2-12=-309/954, 11-12=-303/964, 10-11=-160/782
WEBS	4-7=-727/215, 4-11=-291/158, 7-11=0/264, 7-10=-913/133

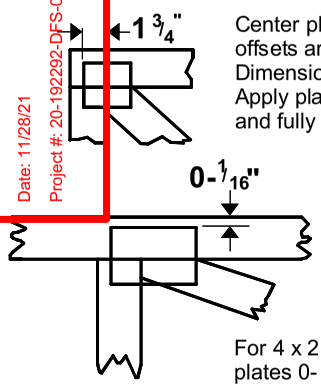
NOTES-

1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 4-1-12, Exterior(2E) 3-0-0 to 6-0-0, Interior(1) 6-0-0 to 16-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 18.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 1.5x4 MT20 unless otherwise indicated.
8) Gable studs spaced at 1-4-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 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.
11) A plate rating reduction of 20% has been applied for the green lumber members.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 2.
13) This truss is designed in accordance with the 2018 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

RENEWAL DATE: 12-31-2021
August 31,2021

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.

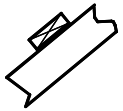
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

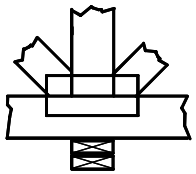
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

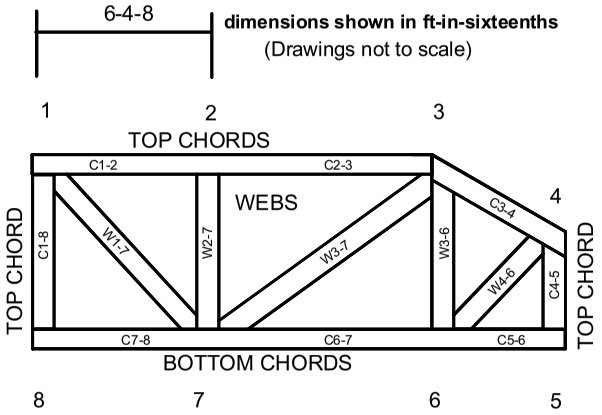


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/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.